284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q2820

Project ID : USACE018-44 DOD

Client : First Environment, Inc.

Lab Sample Number	Client Sample Number
Q2820-01	82H-S
Q2820-02	82H-W
Q2820-03	82H-N
Q2820-04	SOIL-DUP-1
Q2820-05	518R-E
Q2820-06	518R-N
Q2820-07	518R-S
Q2820-08	518R-W
Q2820-09	705R-S
Q2820-10	SOIL-DUP-2
Q2820-11	10PC-W
Q2820-12	10PC-S
Q2820-13	10P-W
Q2820-14	10P-E
Q2820-15	10P-S
Q2820-16	10P-N
Q2820-17	88H-E
Q2820-18	88H-N
Q2820-19	88H-W
Q2820-20	88H-S
Q2820-21	22M-N
Q2820-22	22M-W
Q2820-23	22M-E
Q2820-24	22M-S

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

Signature : _____

Date: 8/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2820
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
24 Solid samples were received on 08/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82Y081225S.M) for Methylene chloride passing on Linear regression.

The Continuous Calibration File ID VW032080.D met the requirements except for 2-Hexanone,Bromoform and Dibromochloromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Sample # 82H-W and 88H-S have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2820 MATRIX: Solid

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82Y081225S.M) for Methylene chloride passing on Linear regression. The Continuous Calibration File ID VW032080.D met the requirements except for 2-Hexanone,Bromoform and Dibromochloromethane are failing high but no positive hit in associate sample therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

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

NA NO YES

The Sample # 82H-W and 88H-S have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2820**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **08/21/2025**

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LAB CHRONICLE

OrderID:	Q2820	**OrderDate:**	8/11/2025 12:29:00 PM
Client:	First Environment, Inc.	**Project:**	USACE018-44 DOD
Contact:	Al Smith	**Location:**	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2820-01	**82H-S**	**SOIL**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/19/25	
Q2820-02	**82H-W**	**SOIL**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-03	**82H-N**	**SOIL**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-04	**SOIL-DUP-1**	**SOIL**			**08/06/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-05	**518R-E**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-06	**518R-N**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-07	**518R-S**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-08	**518R-W**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-09	**705R-S**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-10	**SOIL-DUP-2**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-11	**10PC-W**	**SOIL**			**08/07/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2820-12	**10PC-S**	**SOIL**			**08/07/25**			**08/08/25**

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LAB CHRONICLE

			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-13	**10P-W**	**SOIL**			**08/07/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-14	**10P-E**	**SOIL**			**08/07/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-15	**10P-S**	**SOIL**			**08/07/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/19/25	
Q2820-16	**10P-N**	**SOIL**			**08/07/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-17	**88H-E**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-18	**88H-N**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-19	**88H-W**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-20	**88H-S**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2820-21	**22M-N**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/15/25	
Q2820-22	**22M-W**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/15/25	
Q2820-23	**22M-E**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/19/25	
Q2820-24	**22M-S**	**SOIL**			**08/08/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2820

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID:	**82H-W**									
Q2820-02	82H-W	SOIL	Acetone		30.4		3.60	15.1	18.9	ug/Kg
Q2820-02	82H-W	SOIL	Carbon Disulfide		2.20	J	0.80	3.00	3.80	ug/Kg
Q2820-02	82H-W	SOIL	Methylene Chloride		4.60	J	2.70	6.00	7.60	ug/Kg
			Total Voc :		37.2					
Q2820-02	82H-W	SOIL	unknown12.928	*	6.40	J	0		0	ug/Kg
			Total Tics :		6.40					
			Total Concentration:		43.6					
Client ID:	**82H-N**									
Q2820-03	82H-N	SOIL	Acetone		12.1	J	3.60	15.0	18.8	ug/Kg
Q2820-03	82H-N	SOIL	Methylene Chloride		4.70	J	2.70	6.00	7.50	ug/Kg
			Total Voc :		16.8					
			Total Concentration:		16.8					
Client ID:	**518R-E**									
Q2820-05	518R-E	SOIL	Acetone		190		9.90	41.6	52.0	ug/Kg
Q2820-05	518R-E	SOIL	Methylene Chloride		11.0	J	7.30	16.6	20.8	ug/Kg
Q2820-05	518R-E	SOIL	2-Butanone		36.3	J	13.6	41.6	52.0	ug/Kg
			Total Voc :		237					
			Total Concentration:		237					
Client ID:	**518R-N**									
Q2820-06	518R-N	SOIL	Acetone		180		8.80	37.1	46.4	ug/Kg
Q2820-06	518R-N	SOIL	Carbon Disulfide		35.5		2.00	7.40	9.30	ug/Kg
			Total Voc :		216					
			Total Concentration:		216					
Client ID:	**518R-W**									
Q2820-08	518R-W	SOIL	Acetone		33.9		3.70	15.7	19.7	ug/Kg
Q2820-08	518R-W	SOIL	Methylene Chloride		6.60	J	2.80	6.30	7.90	ug/Kg
			Total Voc :		40.5					
			Total Concentration:		40.5					
Client ID:	**705R-S**									
Q2820-09	705R-S	SOIL	Acetone		30.8	J	6.60	28.0	35.0	ug/Kg
			Total Voc :		30.8					
			Total Concentration:		30.8					
Client ID:	**SOIL-DUP-2**									
Q2820-10	SOIL-DUP-2	SOIL	Acetone		91.9		9.10	38.3	47.9	ug/Kg
Q2820-10	SOIL-DUP-2	SOIL	Carbon Disulfide		6.60	J	2.00	7.70	9.60	ug/Kg
			Total Voc :		98.5					
			Total Concentration:		98.5					
Client ID:	**10P-W**									
Q2820-13	10P-W	SOIL	Acetone		9.30	J	2.80	12.0	15.0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2820

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2820-13	10P-W	SOIL	Methylene Chloride		3.30	J	2.10	4.80	6.00	ug/Kg
			Total Voc :		12.6					
			Total Concentration:		12.6					
Client ID:	**10P-S**									
Q2820-15	10P-S	SOIL	unknown12.651	*	6.90	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	unknown12.730	*	15.0	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	Naphthalene, decahydro-	*	19.2	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	Cyclohexane, (2-methylpropyl)	*	13.5	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	Naphthalene, decahydro-2-metl	*	12.8	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	2-Octene, 2,6-dimethyl-	*	11.5	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	1-Ethyl-2,2,6-trimethylcyclohe:	*	6.10	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	cis-Decalin, 2-syn-methyl-	*	6.20	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	3,4-Dimethylpent-2-en-1-ol	*	9.20	J	0		0	ug/Kg
Q2820-15	10P-S	SOIL	Isobutyl undecyl carbonate	*	6.60	J	0		0	ug/Kg
			Total Tics :		107					
			Total Concentration:		107					
Client ID:	**88H-N**									
Q2820-18	88H-N	SOIL	Acetone		64.0		3.60	15.3	19.1	ug/Kg
Q2820-18	88H-N	SOIL	2-Butanone		6.70	J	5.00	15.3	19.1	ug/Kg
			Total Voc :		70.7					
			Total Concentration:		70.7					
Client ID:	**88H-W**									
Q2820-19	88H-W	SOIL	Acetone		58.9		2.80	11.7	14.7	ug/Kg
Q2820-19	88H-W	SOIL	Methylene Chloride		3.80	J	2.10	4.70	5.90	ug/Kg
Q2820-19	88H-W	SOIL	2-Butanone		5.50	J	3.80	11.7	14.7	ug/Kg
			Total Voc :		68.2					
			Total Concentration:		68.2					
Client ID:	**88H-S**									
Q2820-20	88H-S	SOIL	Acetone		47.3		3.20	13.5	16.9	ug/Kg
			Total Voc :		47.3					
Q2820-20	88H-S	SOIL	Dimethyl sulfide	*	4.30	J	0		0	ug/Kg
			Total Tics :		4.30					
			Total Concentration:		51.6					
Client ID:	**22M-W**									
Q2820-22	22M-W	SOIL	Acetone		18.1	J	5.50	23.4	29.2	ug/Kg
Q2820-22	22M-W	SOIL	Carbon Disulfide		4.70	J	1.20	4.70	5.80	ug/Kg
			Total Voc :		22.8					
			Total Concentration:		22.8					
Client ID:	**22M-S**									
Q2820-24	22M-S	SOIL	Acetone		8.00	J	4.40	18.8	23.4	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2820

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2820-24	22M-S	SOIL	Carbon Disulfide		2.60	J	0.99	3.80	4.70	ug/Kg
			Total Voc :		10.6					
Q2820-24	22M-S	SOIL	unknown15.505	*	150	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Naphthalene, decahydro-	*	91.7	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Dodecane	*	64.1	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Tridecane	*	100	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Octane, 2,6-dimethyl-	*	310	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	1-Methyldecahydronaphthalene	*	91.3	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Naphthalene, decahydro-2-metl	*	150	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Dodecane, 2,6,10-trimethyl-	*	100	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Undecane, 2,6-dimethyl-	*	250	J	0		0	ug/Kg
Q2820-24	22M-S	SOIL	Decahydro-1,1,4a,5,6-pentamet	*	120	J	0		0	ug/Kg
			Total Tics :		1430					
			Total Concentration:		1440					

QC SUMMARY

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

Surrogate Summary

SDG No.: Q2820

Client: First Environment, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2820-01	82H-S	1,2-Dichloroethane-d4	50	52.2	104		71	136
		Dibromofluoromethane	50	51.1	102		78	119
		Toluene-d8	50	50.7	101		85	116
		4-Bromofluorobenzene	50	42.2	84		79	119
Q2820-02	82H-W	1,2-Dichloroethane-d4	50	58.2	116		71	136
		Dibromofluoromethane	50	55.5	111		78	119
		Toluene-d8	50	50.8	102		85	116
		4-Bromofluorobenzene	50	51.6	103		79	119
Q2820-03	82H-N	1,2-Dichloroethane-d4	50	57.5	115		71	136
		Dibromofluoromethane	50	55.6	111		78	119
		Toluene-d8	50	52.2	104		85	116
		4-Bromofluorobenzene	50	52.2	104		79	119
Q2820-04	SOIL-DUP-1	1,2-Dichloroethane-d4	50	58.1	116		71	136
		Dibromofluoromethane	50	56.6	113		78	119
		Toluene-d8	50	51.4	103		85	116
		4-Bromofluorobenzene	50	50.7	101		79	119
Q2820-05	518R-E	1,2-Dichloroethane-d4	50	59.5	119		71	136
		Dibromofluoromethane	50	56.2	112		78	119
		Toluene-d8	50	50.2	100		85	116
		4-Bromofluorobenzene	50	47.2	94		79	119
Q2820-06	518R-N	1,2-Dichloroethane-d4	50	54.5	109		71	136
		Dibromofluoromethane	50	54.8	110		78	119
		Toluene-d8	50	48.4	97		85	116
		4-Bromofluorobenzene	50	41.0	82		79	119
Q2820-07	518R-S	1,2-Dichloroethane-d4	50	57.2	114		71	136
		Dibromofluoromethane	50	54.7	109		78	119
		Toluene-d8	50	48.0	96		85	116
		4-Bromofluorobenzene	50	45.9	92		79	119
Q2820-08	518R-W	1,2-Dichloroethane-d4	50	59.0	118		71	136
		Dibromofluoromethane	50	59.4	119		78	119
		Toluene-d8	50	53.0	106		85	116
		4-Bromofluorobenzene	50	50.8	102		79	119
Q2820-09	705R-S	1,2-Dichloroethane-d4	50	65.6	131		71	136
		Dibromofluoromethane	50	55.3	111		78	119
		Toluene-d8	50	48.7	97		85	116
		4-Bromofluorobenzene	50	48.8	98		79	119
Q2820-10	SOIL-DUP-2	1,2-Dichloroethane-d4	50	59.4	119		71	136
		Dibromofluoromethane	50	56.6	113		78	119
		Toluene-d8	50	50.1	100		85	116
		4-Bromofluorobenzene	50	43.7	87		79	119
Q2820-11	10PC-W	1,2-Dichloroethane-d4	50	59.8	120		71	136
		Dibromofluoromethane	50	55.3	111		78	119
		Toluene-d8	50	50.3	101		85	116
		4-Bromofluorobenzene	50	52.7	105		79	119
Q2820-12	10PC-S	1,2-Dichloroethane-d4	50	57.1	114		71	136
		Dibromofluoromethane	50	56.8	114		78	119
		Toluene-d8	50	50.7	101		85	116
		4-Bromofluorobenzene	50	50.6	101		79	119
Q2820-13	10P-W	1,2-Dichloroethane-d4	50	54.2	108		71	136
		Dibromofluoromethane	50	52.8	106		78	119

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Surrogate Summary

SDG No.: Q2820

Client: First Environment, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2820-13	10P-W	Toluene-d8	50	46.6	93		85	116
		4-Bromofluorobenzene	50	45.5	91		79	119
Q2820-14	10P-E	1,2-Dichloroethane-d4	50	61.1	122		71	136
		Dibromofluoromethane	50	53.0	106		78	119
		Toluene-d8	50	47.6	95		85	116
		4-Bromofluorobenzene	50	45.1	90		79	119
Q2820-15	10P-S	1,2-Dichloroethane-d4	50	53.2	106		71	136
		Dibromofluoromethane	50	52.6	105		78	119
		Toluene-d8	50	51.2	102		85	116
		4-Bromofluorobenzene	50	50.2	100		79	119
Q2820-16	10P-N	1,2-Dichloroethane-d4	50	59.6	119		71	136
		Dibromofluoromethane	50	55.1	110		78	119
		Toluene-d8	50	50.5	101		85	116
		4-Bromofluorobenzene	50	51.5	103		79	119
Q2820-17	88H-E	1,2-Dichloroethane-d4	50	60.2	120		71	136
		Dibromofluoromethane	50	55.2	110		78	119
		Toluene-d8	50	49.1	98		85	116
		4-Bromofluorobenzene	50	48.8	98		79	119
Q2820-18	88H-N	1,2-Dichloroethane-d4	50	58.4	117		71	136
		Dibromofluoromethane	50	55.7	111		78	119
		Toluene-d8	50	50.5	101		85	116
		4-Bromofluorobenzene	50	53.0	106		79	119
Q2820-19	88H-W	1,2-Dichloroethane-d4	50	59.5	119		71	136
		Dibromofluoromethane	50	54.5	109		78	119
		Toluene-d8	50	50.2	100		85	116
		4-Bromofluorobenzene	50	50.0	100		79	119
Q2820-20	88H-S	1,2-Dichloroethane-d4	50	60.4	121		71	136
		Dibromofluoromethane	50	55.3	111		78	119
		Toluene-d8	50	49.9	100		85	116
		4-Bromofluorobenzene	50	48.3	97		79	119
Q2820-21	22M-N	1,2-Dichloroethane-d4	50	57.1	114		71	136
		Dibromofluoromethane	50	52.7	105		78	119
		Toluene-d8	50	51.8	104		85	116
		4-Bromofluorobenzene	50	48.4	97		79	119
Q2820-22	22M-W	1,2-Dichloroethane-d4	50	60.8	122		71	136
		Dibromofluoromethane	50	52.8	106		78	119
		Toluene-d8	50	51.5	103		85	116
		4-Bromofluorobenzene	50	42.6	85		79	119
Q2820-23	22M-E	1,2-Dichloroethane-d4	50	57.1	114		71	136
		Dibromofluoromethane	50	52.7	105		78	119
		Toluene-d8	50	50.8	102		85	116
		4-Bromofluorobenzene	50	41.5	83		79	119
Q2820-24	22M-S	1,2-Dichloroethane-d4	50	55.7	111		71	136
		Dibromofluoromethane	50	51.4	103		78	119
		Toluene-d8	50	51.0	102		85	116
		4-Bromofluorobenzene	50	48.3	97		79	119
VW0814SBL01	VW0814SBL01	1,2-Dichloroethane-d4	50	54.7	109		71	136
		Dibromofluoromethane	50	54.7	109		78	119
		Toluene-d8	50	49.3	99		85	116
		4-Bromofluorobenzene	50	46.6	93		79	119

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Surrogate Summary

SDG No.: Q2820

Client: First Environment, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
VW0814SBS01	VW0814SBS01	1,2-Dichloroethane-d4	50	49.2	98		71	136
		Dibromofluoromethane	50	53.4	107		78	119
		Toluene-d8	50	51.8	104		85	116
		4-Bromofluorobenzene	50	49.2	98		79	119
VW0814SBSD0	VW0814SBSD01	1,2-Dichloroethane-d4	50	46.8	94		71	136
		Dibromofluoromethane	50	50.5	101		78	119
		Toluene-d8	50	50.1	100		85	116
		4-Bromofluorobenzene	50	49.6	99		79	119
VY0815SBL01	VY0815SBL01	1,2-Dichloroethane-d4	50	59.8	120		71	136
		Dibromofluoromethane	50	52.7	105		78	119
		Toluene-d8	50	52.4	105		85	116
		4-Bromofluorobenzene	50	47.5	95		79	119
VY0815SBS01	VY0815SBS01	1,2-Dichloroethane-d4	50	51.7	103		71	136
		Dibromofluoromethane	50	49.3	99		78	119
		Toluene-d8	50	50.2	100		85	116
		4-Bromofluorobenzene	50	48.5	97		79	119
VY0819SBL01	VY0819SBL01	1,2-Dichloroethane-d4	50	53.4	107		71	136
		Dibromofluoromethane	50	52.4	105		78	119
		Toluene-d8	50	51.3	103		85	116
		4-Bromofluorobenzene	50	49.5	99		79	119
VY0819SBS01	VY0819SBS01	1,2-Dichloroethane-d4	50	47.4	95		71	136
		Dibromofluoromethane	50	48.6	97		78	119
		Toluene-d8	50	49.6	99		85	116
		4-Bromofluorobenzene	50	48.5	97		79	119

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032082.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0814SBS01	Dichlorodifluoromethane	20	22.1	ug/Kg	111			29	149	
	Chloromethane	20	18.3	ug/Kg	92			50	136	
	Vinyl chloride	20	19.6	ug/Kg	98			56	135	
	Bromomethane	20	21.7	ug/Kg	109			53	143	
	Chloroethane	20	20.2	ug/Kg	101			59	139	
	Trichlorofluoromethane	20	18.9	ug/Kg	95			62	140	
	1,1,2-Trichlorotrifluoroethane	20	21.9	ug/Kg	110			66	136	
	1,1-Dichloroethene	20	21.4	ug/Kg	107			70	131	
	Acetone	100	120	ug/Kg	120			36	164	
	Carbon disulfide	20	17.5	ug/Kg	88			63	132	
	Methyl tert-butyl Ether	20	18.1	ug/Kg	91			73	125	
	Methyl Acetate	20	17.2	ug/Kg	86			53	144	
	Methylene Chloride	20	17.6	ug/Kg	88			70	128	
	trans-1,2-Dichloroethene	20	18.6	ug/Kg	93			74	125	
	1,1-Dichloroethane	20	18.2	ug/Kg	91			76	125	
	Cyclohexane	20	17.3	ug/Kg	86			67	131	
	2-Butanone	100	95.6	ug/Kg	96			51	148	
	Carbon Tetrachloride	20	22.1	ug/Kg	111			70	135	
	cis-1,2-Dichloroethene	20	18.9	ug/Kg	95			77	123	
	Bromochloromethane	20	19.2	ug/Kg	96			78	125	
	Chloroform	20	19.6	ug/Kg	98			78	123	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			73	130	
	Methylcyclohexane	20	18.8	ug/Kg	94			66	133	
	Benzene	20	20.4	ug/Kg	102			77	121	
	1,2-Dichloroethane	20	22.0	ug/Kg	110			73	128	
	Trichloroethene	20	20.6	ug/Kg	103			77	123	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			76	123	
	Bromodichloromethane	20	21.2	ug/Kg	106			75	127	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			65	135	
	Toluene	20	20.6	ug/Kg	103			77	121	
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97			71	130	
	cis-1,3-Dichloropropene	20	20.0	ug/Kg	100			74	126	
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104			78	121	
	2-Hexanone	100	100	ug/Kg	100			53	145	
	Dibromochloromethane	20	21.7	ug/Kg	109			74	126	
	1,2-Dibromoethane	20	21.0	ug/Kg	105			78	122	
	Tetrachloroethene	20	21.5	ug/Kg	108			73	128	
	Chlorobenzene	20	20.4	ug/Kg	102			79	120	
	Ethyl Benzene	20	20.2	ug/Kg	101			76	122	
	m/p-Xylenes	40	40.1	ug/Kg	100			77	124	
	o-Xylene	20	19.8	ug/Kg	99			77	123	
	Styrene	20	20.1	ug/Kg	101			76	124	
	Bromoform	20	22.1	ug/Kg	111			67	132	
	Isopropylbenzene	20	19.3	ug/Kg	97			68	134	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96			70	124	
	1,3-Dichlorobenzene	20	21.5	ug/Kg	108			77	121	
	1,4-Dichlorobenzene	20	19.4	ug/Kg	97			75	120	
	1,2-Dichlorobenzene	20	21.0	ug/Kg	105			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032082.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0814SBS01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/Kg	91			61	132	
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97			67	129	
	1,2,3-Trichlorobenzene	20	20.0	ug/Kg	100			66	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032083.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0814SBSD01	Dichlorodifluoromethane	20	21.3	ug/Kg	106	5		29	149	20
	Chloromethane	20	17.8	ug/Kg	89	3		50	136	20
	Vinyl chloride	20	19.7	ug/Kg	99	1		56	135	20
	Bromomethane	20	22.1	ug/Kg	111	2		53	143	20
	Chloroethane	20	20.3	ug/Kg	102	1		59	139	20
	Trichlorofluoromethane	20	19.4	ug/Kg	97	2		62	140	20
	1,1,2-Trichlorotrifluoroethane	20	22.3	ug/Kg	112	2		66	136	20
	1,1-Dichloroethene	20	20.9	ug/Kg	104	3		70	131	20
	Acetone	100	120	ug/Kg	120	0		36	164	20
	Carbon disulfide	20	17.3	ug/Kg	86	2		63	132	20
	Methyl tert-butyl Ether	20	17.8	ug/Kg	89	2		73	125	20
	Methyl Acetate	20	15.8	ug/Kg	79	8		53	144	20
	Methylene Chloride	20	17.3	ug/Kg	86	2		70	128	20
	trans-1,2-Dichloroethene	20	18.4	ug/Kg	92	1		74	125	20
	1,1-Dichloroethane	20	18.3	ug/Kg	92	1		76	125	20
	Cyclohexane	20	17.4	ug/Kg	87	1		67	131	20
	2-Butanone	100	92.0	ug/Kg	92	4		51	148	20
	Carbon Tetrachloride	20	21.4	ug/Kg	107	4		70	135	20
	cis-1,2-Dichloroethene	20	18.9	ug/Kg	95	0		77	123	20
	Bromochloromethane	20	18.3	ug/Kg	92	4		78	125	20
	Chloroform	20	19.2	ug/Kg	96	2		78	123	20
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97	0		73	130	20
	Methylcyclohexane	20	19.4	ug/Kg	97	3		66	133	20
	Benzene	20	20.0	ug/Kg	100	2		77	121	20
	1,2-Dichloroethane	20	20.6	ug/Kg	103	7		73	128	20
	Trichloroethene	20	20.8	ug/Kg	104	1		77	123	20
	1,2-Dichloropropane	20	19.5	ug/Kg	98	1		76	123	20
	Bromodichloromethane	20	20.6	ug/Kg	103	3		75	127	20
	4-Methyl-2-Pentanone	100	96.9	ug/Kg	97	3		65	135	20
	Toluene	20	20.3	ug/Kg	102	1		77	121	20
	t-1,3-Dichloropropene	20	19.1	ug/Kg	96	1		71	130	20
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97	3		74	126	20
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100	4		78	121	20
	2-Hexanone	100	97.4	ug/Kg	97	3		53	145	20
	Dibromochloromethane	20	20.9	ug/Kg	104	5		74	126	20
	1,2-Dibromoethane	20	20.0	ug/Kg	100	5		78	122	20
	Tetrachloroethene	20	22.1	ug/Kg	111	3		73	128	20
	Chlorobenzene	20	20.9	ug/Kg	104	2		79	120	20
	Ethyl Benzene	20	20.3	ug/Kg	102	1		76	122	20
	m/p-Xylenes	40	42.6	ug/Kg	106	6		77	124	20
	o-Xylene	20	21.2	ug/Kg	106	7		77	123	20
	Styrene	20	20.5	ug/Kg	103	2		76	124	20
	Bromoform	20	21.5	ug/Kg	108	3		67	132	20
	Isopropylbenzene	20	19.2	ug/Kg	96	1		68	134	20
	1,1,2,2-Tetrachloroethane	20	19.0	ug/Kg	95	1		70	124	20
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106	2		77	121	20
	1,4-Dichlorobenzene	20	20.1	ug/Kg	101	4		75	120	20
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102	3		78	121	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032083.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VW0814SBSD01	1,2-Dibromo-3-Chloropropane	20	17.3	ug/Kg	86	6		61	132	20
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	7		67	129	20
	1,2,3-Trichlorobenzene	20	20.6	ug/Kg	103	3		66	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2820**	**Analytical Method:**	**SW8260D**
Client:	**First Environment, Inc.**	**Datafile :**	VY023113.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0815SBS01	Dichlorodifluoromethane	20	19.7	ug/Kg	99			29	149	
	Chloromethane	20	22.2	ug/Kg	111			50	136	
	Vinyl chloride	20	22.5	ug/Kg	113			56	135	
	Bromomethane	20	25.5	ug/Kg	128			53	143	
	Chloroethane	20	22.7	ug/Kg	114			59	139	
	Trichlorofluoromethane	20	21.1	ug/Kg	106			62	140	
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101			66	136	
	1,1-Dichloroethene	20	19.8	ug/Kg	99			70	131	
	Acetone	100	110	ug/Kg	110			36	164	
	Carbon disulfide	20	20.1	ug/Kg	101			63	132	
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98			73	125	
	Methyl Acetate	20	18.5	ug/Kg	93			53	144	
	Methylene Chloride	20	20.8	ug/Kg	104			70	128	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			74	125	
	1,1-Dichloroethane	20	20.4	ug/Kg	102			76	125	
	Cyclohexane	20	18.9	ug/Kg	95			67	131	
	2-Butanone	100	110	ug/Kg	110			51	148	
	Carbon Tetrachloride	20	19.6	ug/Kg	98			70	135	
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101			77	123	
	Bromochloromethane	20	21.9	ug/Kg	110			78	125	
	Chloroform	20	20.9	ug/Kg	104			78	123	
	1,1,1-Trichloroethane	20	20.3	ug/Kg	102			73	130	
	Methylcyclohexane	20	18.7	ug/Kg	94			66	133	
	Benzene	20	20.4	ug/Kg	102			77	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			73	128	
	Trichloroethene	20	20.5	ug/Kg	103			77	123	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			76	123	
	Bromodichloromethane	20	20.8	ug/Kg	104			75	127	
	4-Methyl-2-Pentanone	100	97.9	ug/Kg	98			65	135	
	Toluene	20	20.2	ug/Kg	101			77	121	
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100			71	130	
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98			74	126	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			78	121	
	2-Hexanone	100	100	ug/Kg	100			53	145	
	Dibromochloromethane	20	20.1	ug/Kg	101			74	126	
	1,2-Dibromoethane	20	20.1	ug/Kg	101			78	122	
	Tetrachloroethene	20	21.8	ug/Kg	109			73	128	
	Chlorobenzene	20	19.5	ug/Kg	98			79	120	
	Ethyl Benzene	20	18.8	ug/Kg	94			76	122	
	m/p-Xylenes	40	38.6	ug/Kg	97			77	124	
	o-Xylene	20	18.6	ug/Kg	93			77	123	
	Styrene	20	19.4	ug/Kg	97			76	124	
	Bromoform	20	18.7	ug/Kg	94			67	132	
	Isopropylbenzene	20	18.8	ug/Kg	94			68	134	
	1,1,2,2-Tetrachloroethane	20	18.1	ug/Kg	91			70	124	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			77	121	
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97			75	120	
	1,2-Dichlorobenzene	20	18.9	ug/Kg	95			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VY023113.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0815SBS01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99			61	132	
	1,2,4-Trichlorobenzene	20	18.2	ug/Kg	91			67	129	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			66	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VY023139.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0819SBS01	Dichlorodifluoromethane	20	20.7	ug/Kg	104			29	149	
	Chloromethane	20	20.2	ug/Kg	101			50	136	
	Vinyl chloride	20	20.6	ug/Kg	103			56	135	
	Bromomethane	20	23.2	ug/Kg	116			53	143	
	Chloroethane	20	20.8	ug/Kg	104			59	139	
	Trichlorofluoromethane	20	20.0	ug/Kg	100			62	140	
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108			66	136	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			70	131	
	Acetone	100	110	ug/Kg	110			36	164	
	Carbon disulfide	20	19.9	ug/Kg	100			63	132	
	Methyl tert-butyl Ether	20	19.7	ug/Kg	99			73	125	
	Methyl Acetate	20	17.4	ug/Kg	87			53	144	
	Methylene Chloride	20	18.9	ug/Kg	95			70	128	
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105			74	125	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			76	125	
	Cyclohexane	20	19.6	ug/Kg	98			67	131	
	2-Butanone	100	100	ug/Kg	100			51	148	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			70	135	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			77	123	
	Bromochloromethane	20	19.5	ug/Kg	98			78	125	
	Chloroform	20	20.7	ug/Kg	104			78	123	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			73	130	
	Methylcyclohexane	20	20.8	ug/Kg	104			66	133	
	Benzene	20	21.1	ug/Kg	106			77	121	
	1,2-Dichloroethane	20	20.2	ug/Kg	101			73	128	
	Trichloroethene	20	21.2	ug/Kg	106			77	123	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			76	123	
	Bromodichloromethane	20	20.7	ug/Kg	104			75	127	
	4-Methyl-2-Pentanone	100	93.7	ug/Kg	94			65	135	
	Toluene	20	21.0	ug/Kg	105			77	121	
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101			71	130	
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103			74	126	
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102			78	121	
	2-Hexanone	100	99.0	ug/Kg	99			53	145	
	Dibromochloromethane	20	20.6	ug/Kg	103			74	126	
	1,2-Dibromoethane	20	20.3	ug/Kg	102			78	122	
	Tetrachloroethene	20	20.5	ug/Kg	103			73	128	
	Chlorobenzene	20	21.3	ug/Kg	106			79	120	
	Ethyl Benzene	20	20.8	ug/Kg	104			76	122	
	m/p-Xylenes	40	42.0	ug/Kg	105			77	124	
	o-Xylene	20	21.0	ug/Kg	105			77	123	
	Styrene	20	21.0	ug/Kg	105			76	124	
	Bromoform	20	20.5	ug/Kg	103			67	132	
	Isopropylbenzene	20	21.2	ug/Kg	106			68	134	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			70	124	
	1,3-Dichlorobenzene	20	20.9	ug/Kg	104			77	121	
	1,4-Dichlorobenzene	20	20.8	ug/Kg	104			75	120	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2820 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VY023139.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0819SBS01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98			61	132	
	1,2,4-Trichlorobenzene	20	20.2	ug/Kg	101			67	129	
	1,2,3-Trichlorobenzene	20	20.1	ug/Kg	101			66	130	

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VOLATILE METHOD BLANK SUMMARY

Client ID: VW0814SBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VW032081.D Lab Sample ID: VW0814SBL01

Date Analyzed: 08/14/2025 Time Analyzed: 10:00

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

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0814SBS01	VW0814SBS01	VW032082.D	08/14/2025
VW0814SBSD01	VW0814SBSD01	VW032083.D	08/14/2025
82H-W	Q2820-02	VW032085.D	08/14/2025
82H-N	Q2820-03	VW032086.D	08/14/2025
SOIL-DUP-1	Q2820-04	VW032087.D	08/14/2025
518R-E	Q2820-05	VW032088.D	08/14/2025
518R-N	Q2820-06	VW032089.D	08/14/2025
518R-S	Q2820-07	VW032090.D	08/14/2025
518R-W	Q2820-08	VW032091.D	08/14/2025
705R-S	Q2820-09	VW032092.D	08/14/2025
SOIL-DUP-2	Q2820-10	VW032093.D	08/14/2025
10PC-W	Q2820-11	VW032094.D	08/14/2025
10PC-S	Q2820-12	VW032095.D	08/14/2025
10P-W	Q2820-13	VW032096.D	08/14/2025
10P-E	Q2820-14	VW032097.D	08/14/2025
10P-N	Q2820-16	VW032099.D	08/14/2025
88H-E	Q2820-17	VW032100.D	08/14/2025
88H-N	Q2820-18	VW032101.D	08/14/2025
88H-W	Q2820-19	VW032102.D	08/14/2025
88H-S	Q2820-20	VW032103.D	08/14/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0815SBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VY023112.D Lab Sample ID: VY0815SBL01

Date Analyzed: 08/15/2025 Time Analyzed: 09:08

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0815SBS01	VY0815SBS01	VY023113.D	08/15/2025
22M-N	Q2820-21	VY023118.D	08/15/2025
22M-W	Q2820-22	VY023119.D	08/15/2025
22M-S	Q2820-24	VY023122.D	08/15/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0819SBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VY023138.D Lab Sample ID: VY0819SBL01

Date Analyzed: 08/19/2025 Time Analyzed: 09:49

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0819SBS01	VY0819SBS01	VY023139.D	08/19/2025
82H-S	Q2820-01	VY023141.D	08/19/2025
10P-S	Q2820-15	VY023142.D	08/19/2025
22M-E	Q2820-23	VY023143.D	08/19/2025

COMMENTS:

Raw Data: **VW032051.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2820
Lab File ID: VW032051.D
BFB Injection Date: 08/11/2025
Instrument ID: MSVOA_W
BFB Injection Time: 07:53
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	4.9 (7.3) 1
176	95.0 - 101.0% of mass 174	64.2 (95.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VW032052.D	08/11/2025	08:25
VSTDICC010	VSTDICC010	VW032053.D	08/11/2025	09:09
VSTDICC020	VSTDICC020	VW032054.D	08/11/2025	09:47
VSTDICCC050	VSTDICCC050	VW032055.D	08/11/2025	10:09
VSTDICC100	VSTDICC100	VW032056.D	08/11/2025	10:46
VSTDICC150	VSTDICC150	VW032057.D	08/11/2025	11:08

Raw Data: **VW032079.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2820
Lab File ID: VW032079.D
BFB Injection Date: 08/14/2025
Instrument ID: MSVOA_W
BFB Injection Time: 09:05
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	6.2 (8.8) 1
176	95.0 - 101.0% of mass 174	67.5 (95.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032080.D	08/14/2025	09:27
VW0814SBL01	VW0814SBL01	VW032081.D	08/14/2025	10:00
VW0814SBS01	VW0814SBS01	VW032082.D	08/14/2025	10:27
VW0814SBSD01	VW0814SBSD01	VW032083.D	08/14/2025	10:58
82H-W	Q2820-02	VW032085.D	08/14/2025	12:02
82H-N	Q2820-03	VW032086.D	08/14/2025	12:24
SOIL-DUP-1	Q2820-04	VW032087.D	08/14/2025	12:46
518R-E	Q2820-05	VW032088.D	08/14/2025	13:09
518R-N	Q2820-06	VW032089.D	08/14/2025	13:31
518R-S	Q2820-07	VW032090.D	08/14/2025	13:54
518R-W	Q2820-08	VW032091.D	08/14/2025	14:16
705R-S	Q2820-09	VW032092.D	08/14/2025	14:39
SOIL-DUP-2	Q2820-10	VW032093.D	08/14/2025	15:01
10PC-W	Q2820-11	VW032094.D	08/14/2025	15:24
10PC-S	Q2820-12	VW032095.D	08/14/2025	15:47
10P-W	Q2820-13	VW032096.D	08/14/2025	16:10
10P-E	Q2820-14	VW032097.D	08/14/2025	16:32
10P-N	Q2820-16	VW032099.D	08/14/2025	17:17

Raw Data: **VW032079.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2820
Lab File ID: VW032079.D
BFB Injection Date: 08/14/2025
Instrument ID: MSVOA_W
BFB Injection Time: 09:05
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	6.2 (8.8) 1
176	95.0 - 101.0% of mass 174	67.5 (95.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
88H-E	Q2820-17	VW032100.D	08/14/2025	17:40
88H-N	Q2820-18	VW032101.D	08/14/2025	18:02
88H-W	Q2820-19	VW032102.D	08/14/2025	18:25
88H-S	Q2820-20	VW032103.D	08/14/2025	18:47
VSTDCCC050EC	VSTDCCC050	VW032105.D	08/14/2025	19:32

Raw Data: **VY023048.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2820

Lab File ID: VY023048.D | BFB Injection Date: 08/12/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:26

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	83.2
175	5.0 - 9.0% of mass 174	6.3 (7.6) 1
176	95.0 - 101.0% of mass 174	80.9 (97.2) 1
177	5.0 - 9.0% of mass 176	5.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY023050.D	08/12/2025	14:54
VSTDICC010	VSTDICC010	VY023051.D	08/12/2025	15:17
VSTDICC020	VSTDICC020	VY023052.D	08/12/2025	15:40
VSTDICCC050	VSTDICCC050	VY023053.D	08/12/2025	16:02
VSTDICC100	VSTDICC100	VY023054.D	08/12/2025	16:25
VSTDICC150	VSTDICC150	VY023055.D	08/12/2025	16:47

Raw Data: **VY023110.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2820

Lab File ID: VY023110.D | BFB Injection Date: 08/15/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:07

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 100.0% of mass 95	88.9
175	5.0 - 9.0% of mass 174	6.6 (7.4) 1
176	95.0 - 101.0% of mass 174	85.3 (96) 1
177	5.0 - 9.0% of mass 176	5.6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023111.D	08/15/2025	08:39
VY0815SBL01	VY0815SBL01	VY023112.D	08/15/2025	09:08
VY0815SBS01	VY0815SBS01	VY023113.D	08/15/2025	09:37
22M-N	Q2820-21	VY023118.D	08/15/2025	11:54
22M-W	Q2820-22	VY023119.D	08/15/2025	12:18
22M-S	Q2820-24	VY023122.D	08/15/2025	13:28
VSTDCCC050EC	VSTDCCC050	VY023135.D	08/15/2025	19:06

Raw Data: **VY023136.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2820

Lab File ID: VY023136.D | BFB Injection Date: 08/19/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 07:45

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	51.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	87.6
175	5.0 - 9.0% of mass 174	6.6 (7.5) 1
176	95.0 - 101.0% of mass 174	84.1 (96.1) 1
177	5.0 - 9.0% of mass 176	5.4 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023137.D	08/19/2025	09:11
VY0819SBL01	VY0819SBL01	VY023138.D	08/19/2025	09:49
VY0819SBS01	VY0819SBS01	VY023139.D	08/19/2025	10:19
82H-S	Q2820-01	VY023141.D	08/19/2025	11:20
10P-S	Q2820-15	VY023142.D	08/19/2025	11:44
22M-E	Q2820-23	VY023143.D	08/19/2025	12:07
VSTDCCC050EC	VSTDCCC050	VY023160.D	08/19/2025	19:08

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VW032080.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_W Time Analyzed: 09:27

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	209331	7.96	369087	8.85	337227	11.63
UPPER LIMIT	418662	8.459	738174	9.349	674454	12.129
LOWER LIMIT	104666	7.459	184544	8.349	168614	11.129
EPA SAMPLE NO.						
82H-W	150560	7.97	312304	8.86	317114	11.63
82H-N	157879	7.97	311642	8.85	306017	11.63
SOIL-DUP-1	155089	7.97	306810	8.86	312208	11.63
518R-E	142915	7.97	288167	8.86	279890	11.63
518R-N	136247	7.97	267749	8.85	243648	11.63
518R-S	145772	7.97	300621	8.86	280561	11.63
518R-W	140686	7.96	276303	8.86	279575	11.64
705R-S	139519	7.96	293162	8.85	286216	11.64
SOIL-DUP-2	131941	7.97	266004	8.85	258211	11.64
10PC-W	137313	7.96	286341	8.85	284239	11.63
10PC-S	146756	7.96	291552	8.85	294933	11.64
10P-W	153502	7.97	317351	8.86	347999	11.64
10P-E	132278	7.96	288474	8.85	286427	11.64
10P-N	140424	7.96	293737	8.86	291999	11.63
88H-E	138538	7.97	294077	8.85	290017	11.64
88H-N	147385	7.96	297090	8.86	296209	11.63
88H-W	140101	7.97	295249	8.86	289791	11.63
88H-S	146240	7.97	298387	8.86	290020	11.64
VW0814SBL01	151415	7.96	296729	8.85	295553	11.63
VW0814SBS01	208549	7.96	361028	8.85	335310	11.63
VW0814SBSD01	218109	7.96	379951	8.85	343089	11.63

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VW032080.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_W Time Analyzed: 09:27

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	209331	7.96	369087	8.85	337227	11.63
UPPER LIMIT	418662	8.459	738174	9.349	674454	12.129
LOWER LIMIT	104666	7.459	184544	8.349	168614	11.129
EPA SAMPLE NO.						

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VW032080.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_W Time Analyzed: 09:27

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

	IS4 AREA #	RT #				
12 HOUR STD	174813	13.556				
UPPER LIMIT	349626	14.056				
LOWER LIMIT	87406.5	13.056				
EPA SAMPLE NO.						
82H-W	149119	13.56				
82H-N	150411	13.56				
SOIL-DUP-1	147600	13.56				
518R-E	126154	13.56				
518R-N	97060	13.56				
518R-S	122108	13.56				
518R-W	127979	13.56				
705R-S	129964	13.56				
SOIL-DUP-2	103366	13.56				
10PC-W	145639	13.56				
10PC-S	140579	13.56				
10P-W	179419	13.56				
10P-E	140063	13.56				
10P-N	143336	13.56				
88H-E	141036	13.56				
88H-N	149072	13.56				
88H-W	144659	13.56				
88H-S	135214	13.56				
VW0814SBL01	134418	13.56				
VW0814SBS01	173541	13.56				
VW0814SBSD01	177605	13.55				

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VW032080.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_W Time Analyzed: 09:27

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

	IS4 AREA #	RT #				
12 HOUR STD	174813	13.556				
UPPER LIMIT	349626	14.056				
LOWER LIMIT	87406.5	13.056				
EPA SAMPLE NO.						

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VY023111.D Date Analyzed: 08/15/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:39

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	443799	7.71	696916	8.62	607348	11.41
UPPER LIMIT	887598	8.207	1393830	9.116	1214700	11.914
LOWER LIMIT	221900	7.207	348458	8.116	303674	10.914
EPA SAMPLE NO.						
22M-N	570930	7.71	1075634	8.61	964069	11.41
22M-W	565430	7.71	1082388	8.62	919769	11.41
22M-S	540065	7.71	1019542	8.61	888710	11.41
VY0815SBL01	550500	7.71	1049087	8.62	953139	11.41
VY0815SBS01	452403	7.71	727202	8.62	654458	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VY023111.D Date Analyzed: 08/15/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:39

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

	IS4 AREA #	RT #				
12 HOUR STD	306948	13.347				
UPPER LIMIT	613896	13.847				
LOWER LIMIT	153474	12.847				
EPA SAMPLE NO.						
22M-N	387628	13.34				
22M-W	311657	13.34				
22M-S	376737	13.34				
VY0815SBL01	370974	13.35				
VY0815SBS01	327154	13.34				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VY023137.D Date Analyzed: 08/19/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:11

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	560294	7.71	876189	8.62	761785	11.41
UPPER LIMIT	1120590	8.213	1752380	9.116	1523570	11.914
LOWER LIMIT	280147	7.213	438095	8.116	380893	10.914
EPA SAMPLE NO.						
82H-S	632898	7.71	1176361	8.62	988287	11.41
10P-S	632809	7.71	1165930	8.62	1040807	11.41
22M-E	605918	7.71	1109341	8.62	926207	11.41
VY0819SBL01	658468	7.71	1194271	8.62	1104701	11.41
VY0819SBS01	517532	7.71	816918	8.62	707204	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2820

Lab File ID: VY023137.D Date Analyzed: 08/19/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:11

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

	IS4 AREA #	RT #				
12 HOUR STD	392533	13.346				
UPPER LIMIT	785066	13.846				
LOWER LIMIT	196267	12.846				
EPA SAMPLE NO.						
82H-S	333936	13.35				
10P-S	447912	13.35				
22M-E	306765	13.35				
VY0819SBL01	444569	13.35				
VY0819SBS01	352720	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VY023141.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	6.57 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023141.D	1	08/19/25 11:20	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.70	U	1.10	3.70	4.60	ug/Kg
74-87-3	Chloromethane	2.30	U	1.10	2.30	4.60	ug/Kg
75-01-4	Vinyl Chloride	2.30	U	0.73	2.30	4.60	ug/Kg
74-83-9	Bromomethane	3.70	U	0.99	3.70	4.60	ug/Kg
75-00-3	Chloroethane	2.30	U	1.20	2.30	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	3.70	U	1.10	3.70	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.30	U	0.98	2.30	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	2.30	U	0.92	2.30	4.60	ug/Kg
67-64-1	Acetone	18.4	U	4.40	18.4	23.1	ug/Kg
75-15-0	Carbon Disulfide	3.70	U	0.98	3.70	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.30	U	0.67	2.30	4.60	ug/Kg
79-20-9	Methyl Acetate	3.70	U	1.40	3.70	4.60	ug/Kg
75-09-2	Methylene Chloride	7.40	U	3.30	7.40	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.30	U	0.79	2.30	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	2.30	U	0.74	2.30	4.60	ug/Kg
110-82-7	Cyclohexane	2.30	U	0.73	2.30	4.60	ug/Kg
78-93-3	2-Butanone	18.4	U	6.00	18.4	23.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.30	U	0.89	2.30	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.30	U	0.69	2.30	4.60	ug/Kg
74-97-5	Bromochloromethane	3.70	U	1.10	3.70	4.60	ug/Kg
67-66-3	Chloroform	3.70	U	0.77	3.70	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.30	U	0.86	2.30	4.60	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	0.84	2.30	4.60	ug/Kg
71-43-2	Benzene	2.30	U	0.73	2.30	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	2.30	U	0.73	2.30	4.60	ug/Kg
79-01-6	Trichloroethene	2.30	U	0.75	2.30	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	2.30	U	0.84	2.30	4.60	ug/Kg
75-27-4	Bromodichloromethane	2.30	U	0.72	2.30	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.5	U	3.30	11.5	23.1	ug/Kg
108-88-3	Toluene	2.30	U	0.72	2.30	4.60	ug/Kg

Raw Data: **VY023141.D**

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	6.57 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023141.D	1	08/19/25 11:20	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.30	U	0.60	2.30	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.30	U	0.57	2.30	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.30	U	0.85	2.30	4.60	ug/Kg
591-78-6	2-Hexanone	11.5	U	3.40	11.5	23.1	ug/Kg
124-48-1	Dibromochloromethane	2.30	U	0.80	2.30	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	2.30	U	0.81	2.30	4.60	ug/Kg
127-18-4	Tetrachloroethene	2.30	U	0.97	2.30	4.60	ug/Kg
108-90-7	Chlorobenzene	2.30	U	0.84	2.30	4.60	ug/Kg
100-41-4	Ethyl Benzene	2.30	U	0.62	2.30	4.60	ug/Kg
179601-23-1	m/p-Xylenes	4.60	U	1.10	4.60	9.20	ug/Kg
95-47-6	o-Xylene	2.30	U	0.76	2.30	4.60	ug/Kg
100-42-5	Styrene	2.30	U	0.65	2.30	4.60	ug/Kg
75-25-2	Bromoform	2.30	U	0.79	2.30	4.60	ug/Kg
98-82-8	Isopropylbenzene	2.30	U	0.72	2.30	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.30	U	1.10	2.30	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	1.60	2.30	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.30	U	1.40	2.30	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	1.30	2.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.70	U	1.70	3.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.70	U	2.70	3.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.70	U	2.90	3.70	4.60	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.2		71 - 136		104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.7		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.2		79 - 119		84%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	633000	7.707				
540-36-3	1,4-Difluorobenzene	1180000	8.616				
3114-55-4	Chlorobenzene-d5	988000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	334000	13.347				

Raw Data: **VY023141.D**

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	6.57 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023141.D	1	08/19/25 11:20	VY081925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023141.D
Acq On : 19 Aug 2025 11:20
Operator : SY/MD
Sample : Q2820-01
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Quant Time: Aug 20 01:26:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	632898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1176361	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	988287	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	333936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	314601	52.156	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.320%			
35) Dibromofluoromethane	7.634	113	359894	51.129	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.260%			
50) Toluene-d8	10.103	98	1395208	50.738	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.480%			
62) 4-Bromofluorobenzene	12.402	95	372975	42.175	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 84.360%			

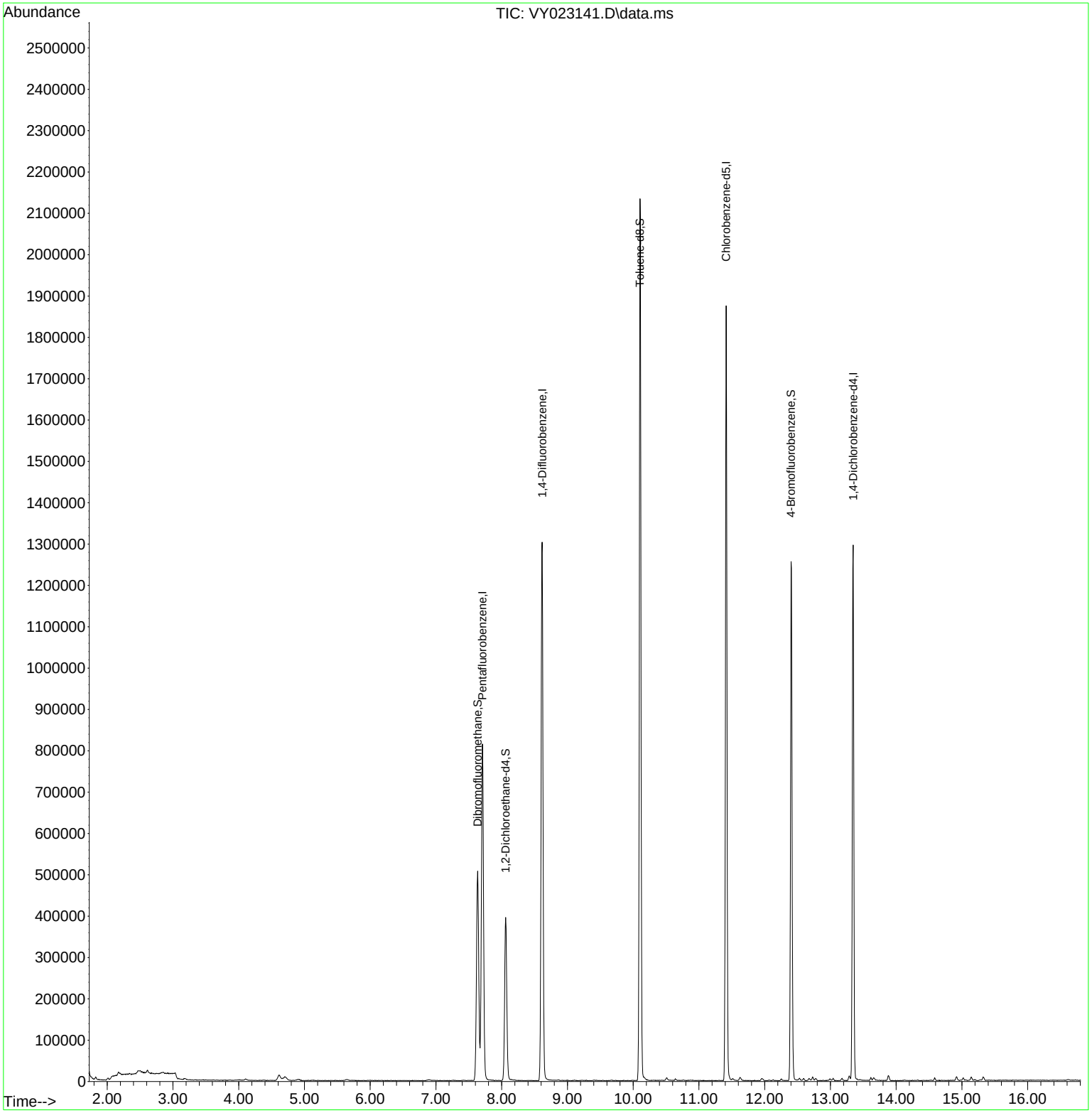
Target Compounds Qvalue

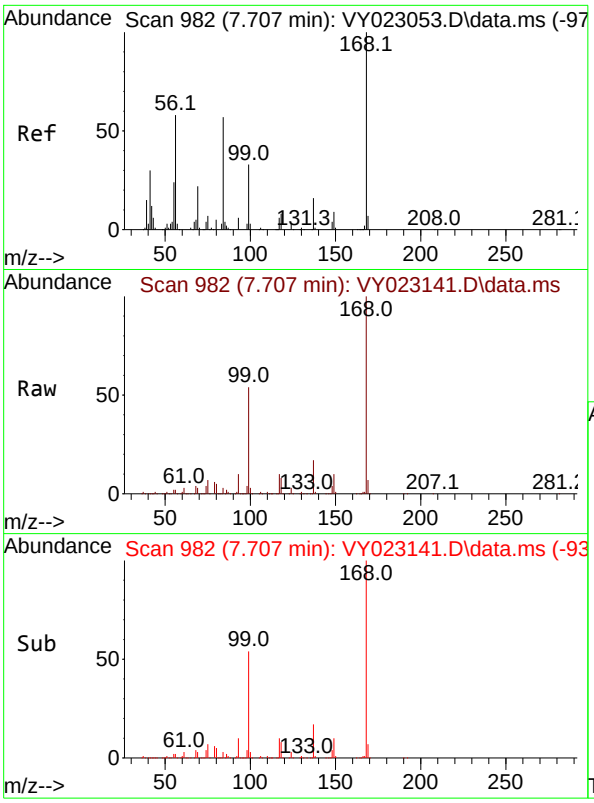
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023141.D
Acq On : 19 Aug 2025 11:20
Operator : SY/MD
Sample : Q2820-01
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Quant Time: Aug 20 01:26:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



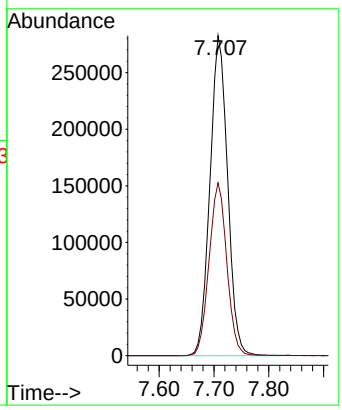


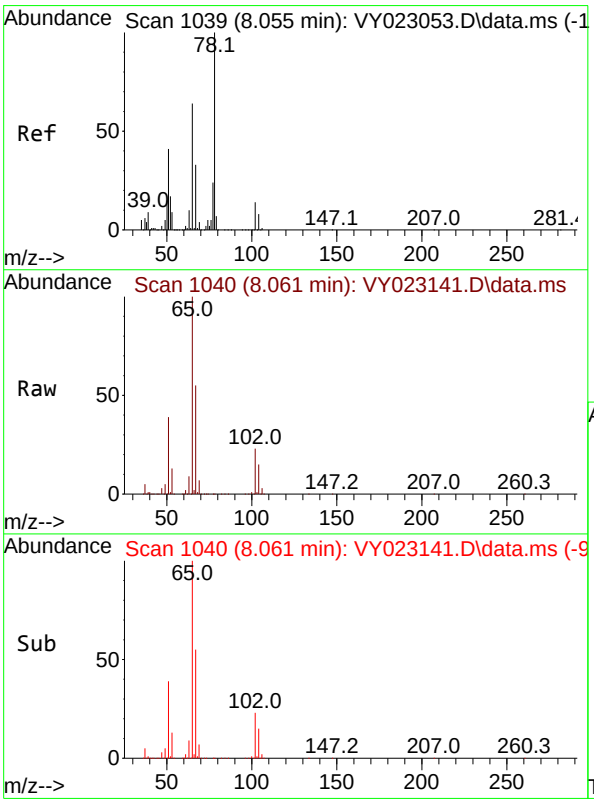
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Tgt Ion:168 Resp: 632898

Ion	Ratio	Lower	Upper
168	100		
99	54.0	42.8	64.2

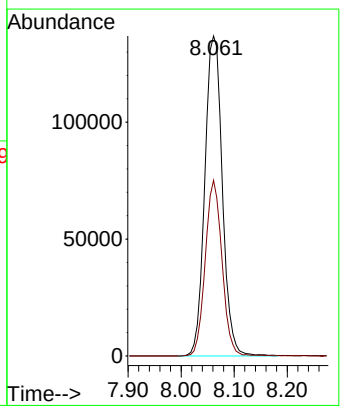


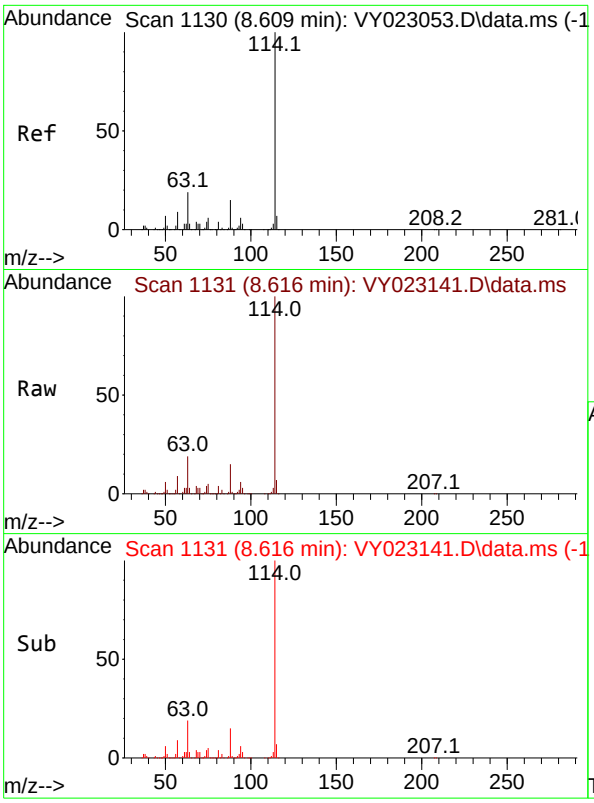


#33
1,2-Dichloroethane-d4
Concen: 52.156 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Tgt Ion: 65 Resp: 314601

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.8



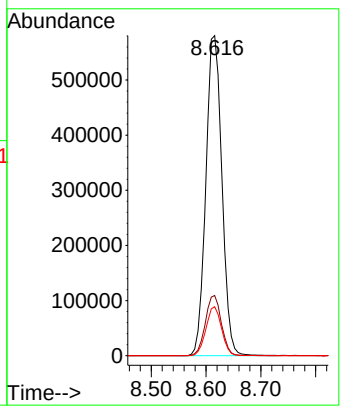


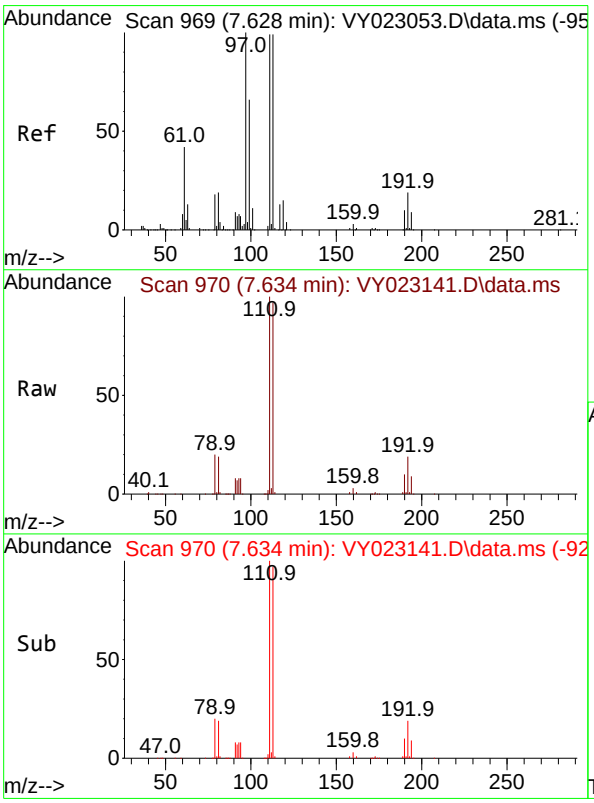
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Tgt Ion:114 Resp: 1176361

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	38.4
88	15.3	0.0	30.0

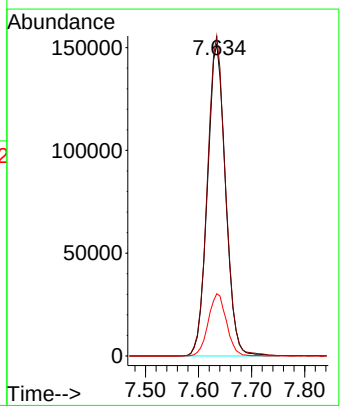


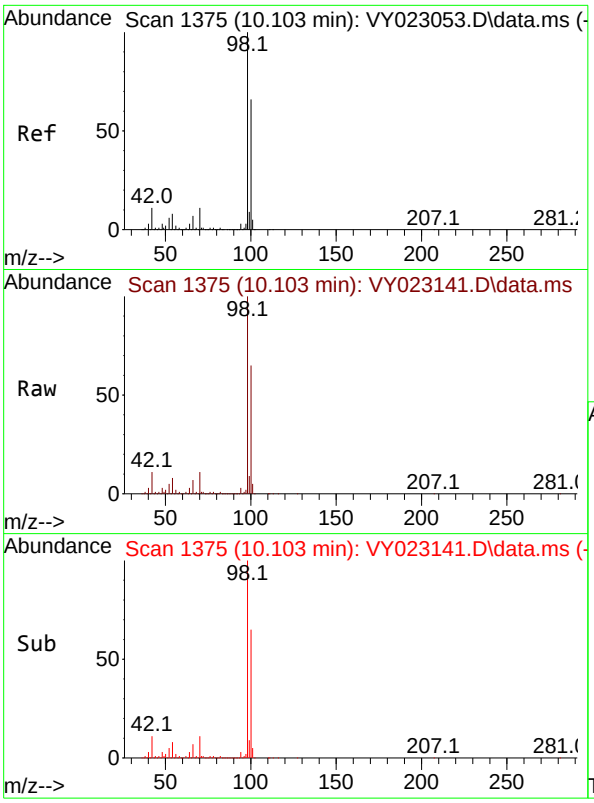


#35
Dibromofluoromethane
Concen: 51.129 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Tgt Ion:113 Resp: 359894

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.1	121.7
192	20.0	16.2	24.4



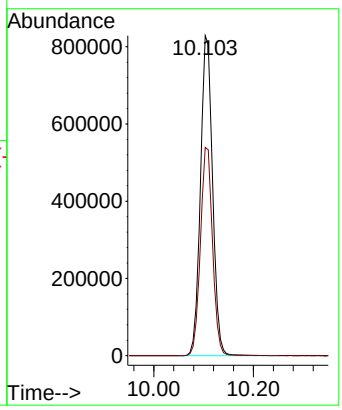


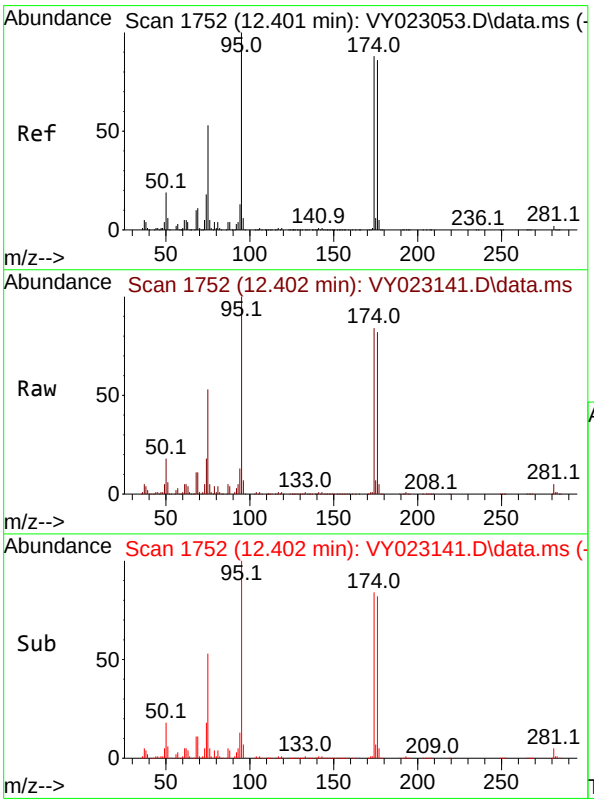
#50
Toluene-d8
Concen: 50.738 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Tgt Ion: 98 Resp: 1395208

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

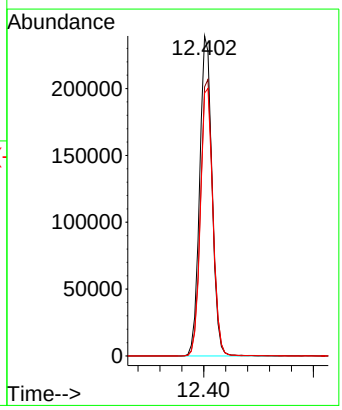


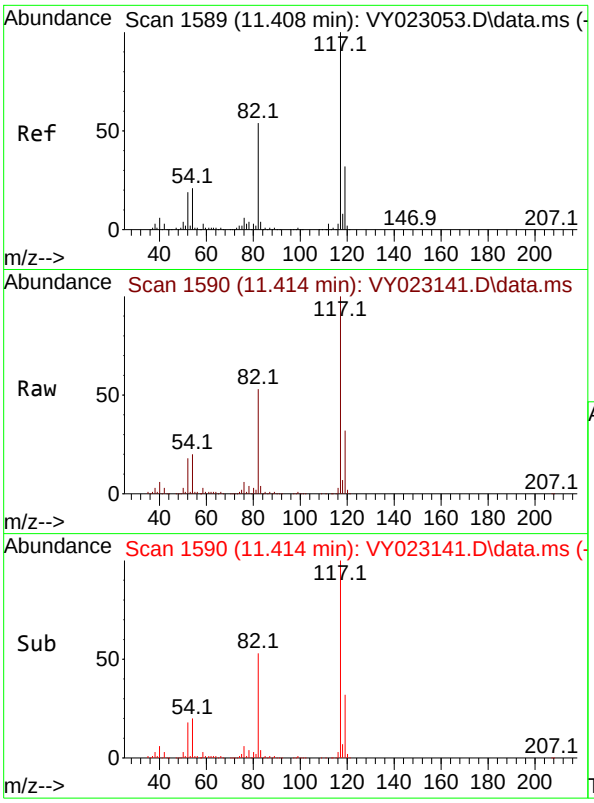


#62
4-Bromofluorobenzene
Concen: 42.175 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Tgt Ion: 95 Resp: 372975

Ion	Ratio	Lower	Upper
95	100		
174	87.3	0.0	171.6
176	84.2	0.0	167.6



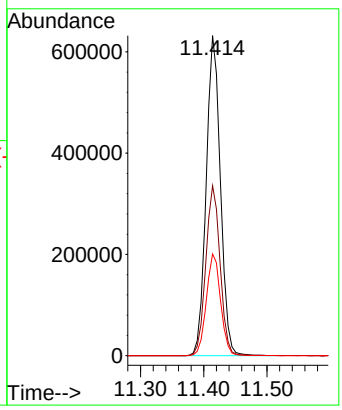


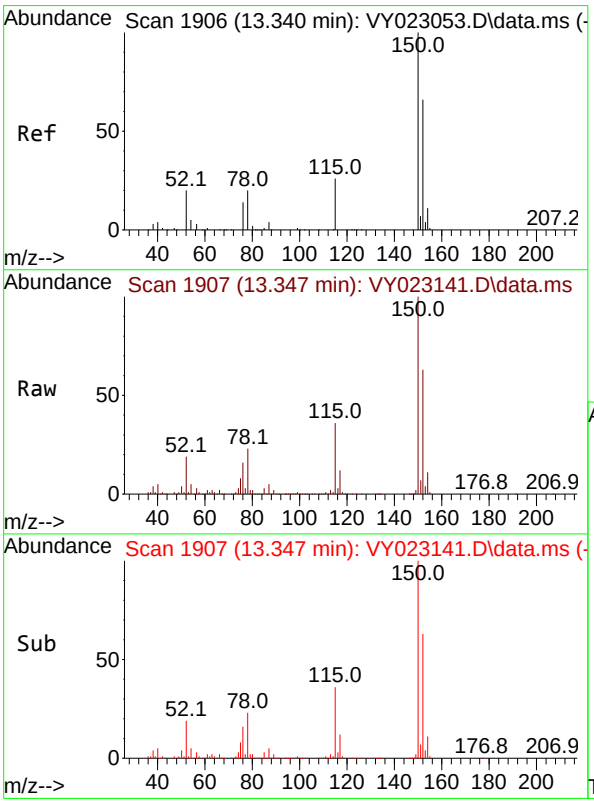
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Tgt Ion:117 Resp: 988287

Ion	Ratio	Lower	Upper
117	100		
82	53.1	43.4	65.0
119	31.8	25.6	38.4

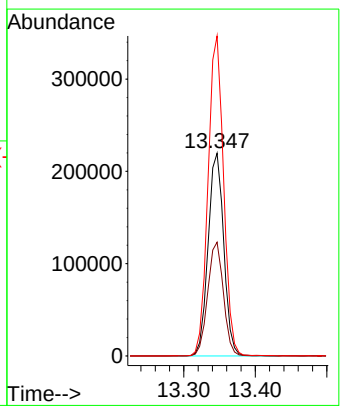




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023141.D
Acq: 19 Aug 2025 11:20

Tgt Ion:152 Resp: 333936

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	156.6	0.0	348.0



Sample Results: **VY023141.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023141.D
Acq On : 19 Aug 2025 11:20
Operator : SY/MD
Sample : Q2820-01
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023141.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.610	464	474	482	rBV4	13535	44407	1.23%	0.257%
2	7.634	958	970	976	rBV	506644	1204596	33.27%	6.977%
3	7.707	976	982	999	rVB	812938	1821204	50.30%	10.549%
4	8.061	1028	1040	1051	rBV	394954	888163	24.53%	5.144%
5	8.616	1121	1131	1150	rBV	1302819	2648086	73.13%	15.338%
6	10.103	1368	1375	1395	rBV	2132970	3620987	100.00%	20.974%
7	11.414	1582	1590	1602	rBV	1874611	2964888	81.88%	17.173%
8	12.402	1745	1752	1766	rBV2	1255862	2087510	57.65%	12.091%
9	13.347	1900	1907	1916	rVB	1292256	1984548	54.81%	11.495%

Sum of corrected areas: 17264389

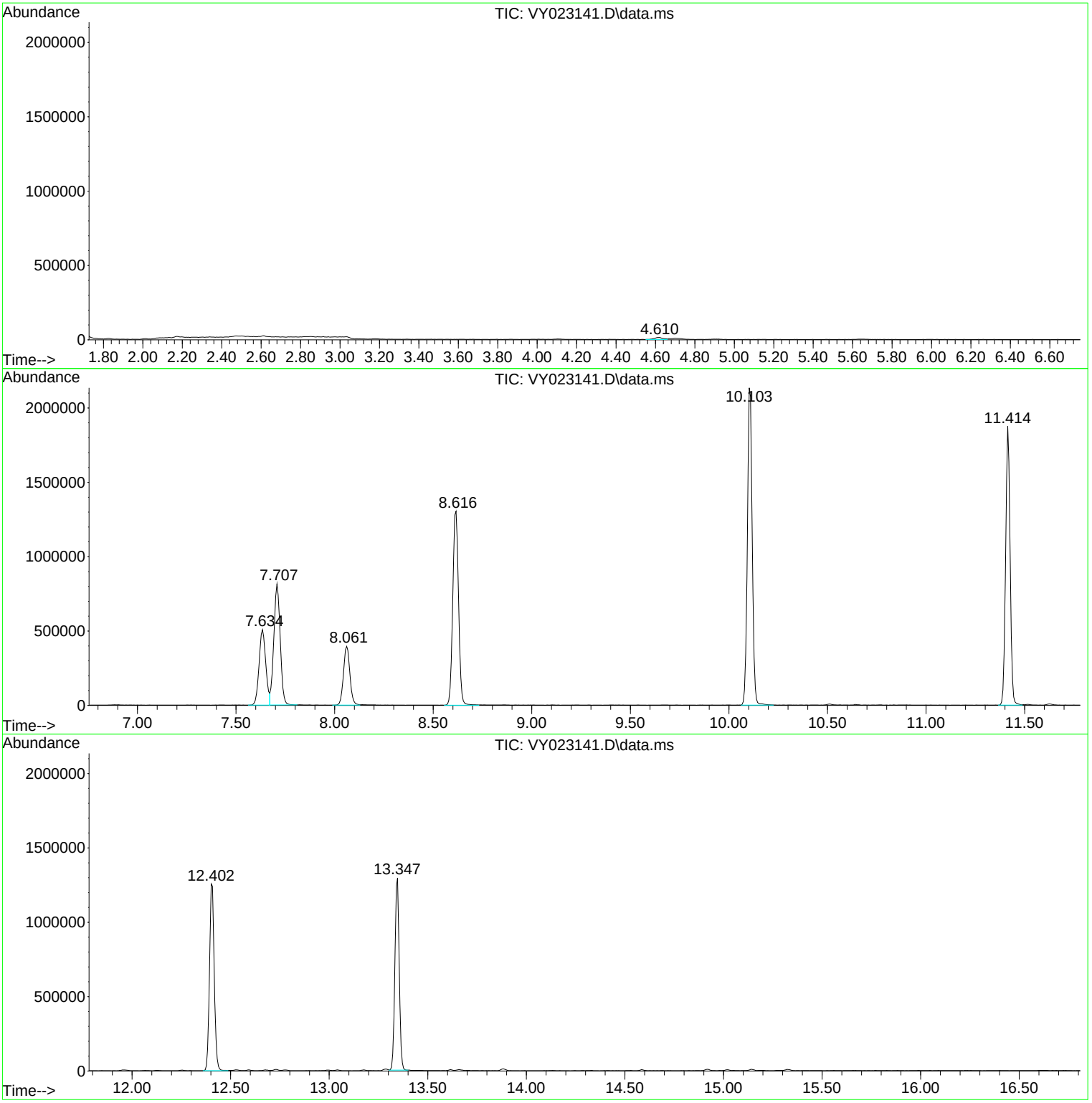
Sample Results: **VY023141.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023141.D
Acq On : 19 Aug 2025 11:20
Operator : SY/MD
Sample : Q2820-01
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023141.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023141.D
Acq On : 19 Aug 2025 11:20
Operator : SY/MD
Sample : Q2820-01
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023141.D
Acq On : 19 Aug 2025 11:20
Operator : SY/MD
Sample : Q2820-01
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032085.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.5
Sample Wt/Vol:	7.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032085.D	1	08/14/25 12:02	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.00	U	0.86	3.00	3.80	ug/Kg
74-87-3	Chloromethane	1.90	U	0.86	1.90	3.80	ug/Kg
75-01-4	Vinyl Chloride	1.90	U	0.60	1.90	3.80	ug/Kg
74-83-9	Bromomethane	3.00	U	0.81	3.00	3.80	ug/Kg
75-00-3	Chloroethane	1.90	U	0.95	1.90	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	3.00	U	0.91	3.00	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	0.80	1.90	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.90	U	0.76	1.90	3.80	ug/Kg
67-64-1	Acetone	30.4		3.60	15.1	18.9	ug/Kg
75-15-0	Carbon Disulfide	2.20	J	0.80	3.00	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.90	U	0.55	1.90	3.80	ug/Kg
79-20-9	Methyl Acetate	3.00	U	1.20	3.00	3.80	ug/Kg
75-09-2	Methylene Chloride	4.60	J	2.70	6.00	7.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.90	U	0.65	1.90	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.90	U	0.60	1.90	3.80	ug/Kg
110-82-7	Cyclohexane	1.90	U	0.60	1.90	3.80	ug/Kg
78-93-3	2-Butanone	15.1	U	4.90	15.1	18.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.90	U	0.73	1.90	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.90	U	0.57	1.90	3.80	ug/Kg
74-97-5	Bromochloromethane	3.00	U	0.87	3.00	3.80	ug/Kg
67-66-3	Chloroform	3.00	U	0.64	3.00	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.90	U	0.70	1.90	3.80	ug/Kg
108-87-2	Methylcyclohexane	1.90	U	0.69	1.90	3.80	ug/Kg
71-43-2	Benzene	1.90	U	0.60	1.90	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.90	U	0.60	1.90	3.80	ug/Kg
79-01-6	Trichloroethene	1.90	U	0.61	1.90	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.90	U	0.69	1.90	3.80	ug/Kg
75-27-4	Bromodichloromethane	1.90	U	0.59	1.90	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.50	U	2.70	9.50	18.9	ug/Kg
108-88-3	Toluene	1.90	U	0.59	1.90	3.80	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.5
Sample Wt/Vol:	7.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032085.D	1	08/14/25 12:02	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.90	U	0.49	1.90	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.90	U	0.47	1.90	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.90	U	0.70	1.90	3.80	ug/Kg
591-78-6	2-Hexanone	9.50	U	2.80	9.50	18.9	ug/Kg
124-48-1	Dibromochloromethane	1.90	U	0.66	1.90	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.90	U	0.67	1.90	3.80	ug/Kg
127-18-4	Tetrachloroethene	1.90	U	0.79	1.90	3.80	ug/Kg
108-90-7	Chlorobenzene	1.90	U	0.69	1.90	3.80	ug/Kg
100-41-4	Ethyl Benzene	1.90	U	0.51	1.90	3.80	ug/Kg
179601-23-1	m/p-Xylenes	3.80	U	0.94	3.80	7.60	ug/Kg
95-47-6	o-Xylene	1.90	U	0.62	1.90	3.80	ug/Kg
100-42-5	Styrene	1.90	U	0.54	1.90	3.80	ug/Kg
75-25-2	Bromoform	1.90	U	0.65	1.90	3.80	ug/Kg
98-82-8	Isopropylbenzene	1.90	U	0.59	1.90	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	0.91	1.90	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.30	1.90	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.20	1.90	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.90	U	1.10	1.90	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.00	U	1.40	3.00	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	2.20	3.00	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	2.40	3.00	3.80	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.2		71 - 136		116%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		78 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	50.8		85 - 116		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		79 - 119		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	151000	7.965				
540-36-3	1,4-Difluorobenzene	312000	8.855				
3114-55-4	Chlorobenzene-d5	317000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.556				
TENTATIVE IDENTIFIED COMPOUNDS							

Raw Data: **VW032085.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.5
Sample Wt/Vol:	7.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032085.D	1	08/14/25 12:02	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
	unknown12.928	6.40	J			12.9	ug/Kg

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 03:49:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	150560	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	312304	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	317114	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	149119	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	126653	58.164	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 116.320%			
35) Dibromofluoromethane	7.904	113	111867	55.445	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.900%			
50) Toluene-d8	10.325	98	379321	50.830	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.660%			
62) 4-Bromofluorobenzene	12.617	95	141794	51.561	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.120%			
Target Compounds						Qvalue
16) Acetone	4.161	43	20268	40.202	ug/l #	87
17) Carbon Disulfide	4.423	76	14117	2.880	ug/l	97
20) Methylene Chloride	4.960	84	14087m	6.043	ug/l	
25) 2-Butanone	7.203	43	3815	5.324	ug/l #	86

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

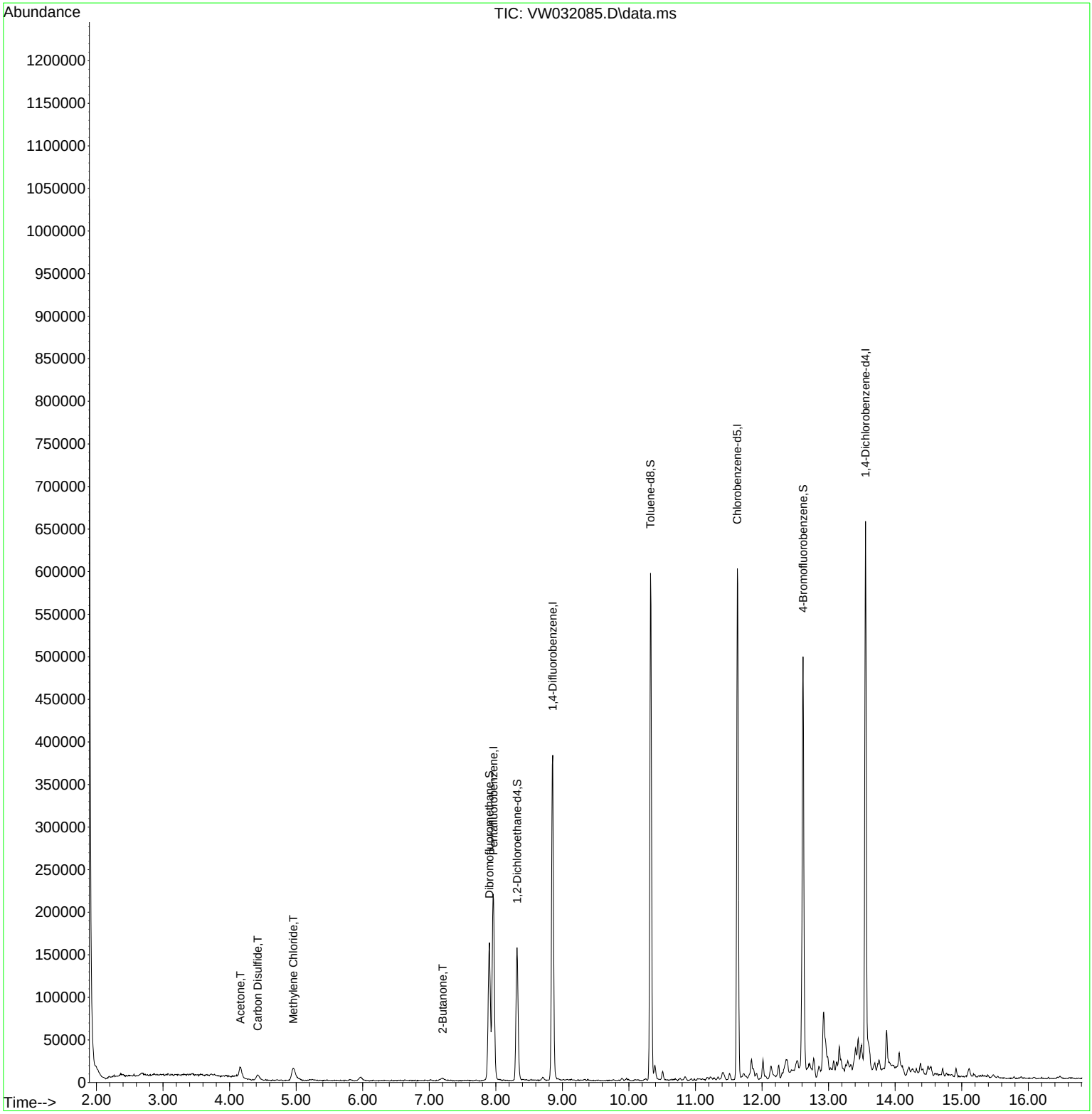
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

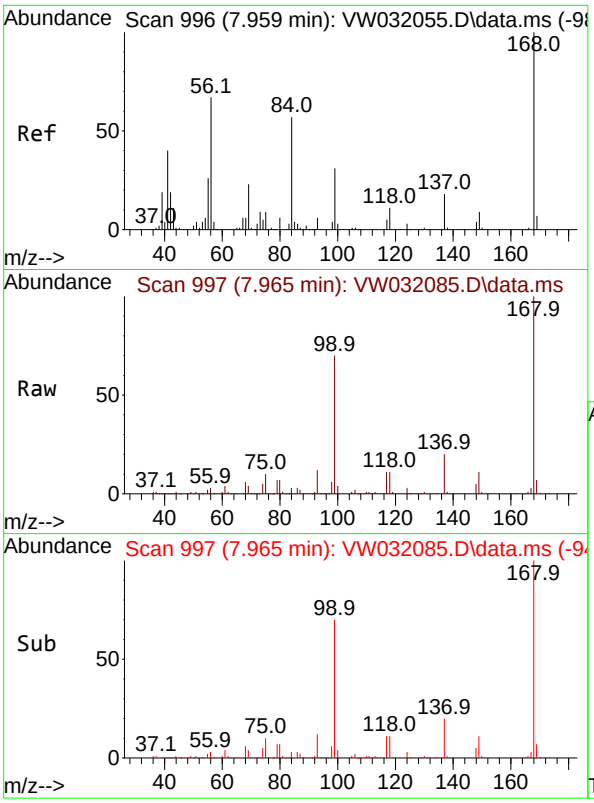
Quant Time: Aug 18 03:49:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

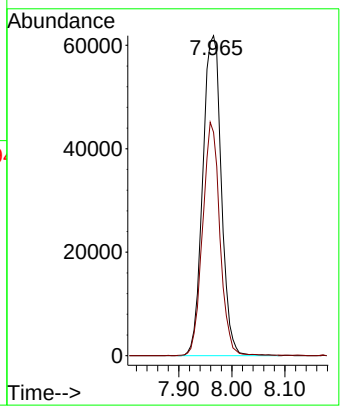




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:168 Resp: 15056

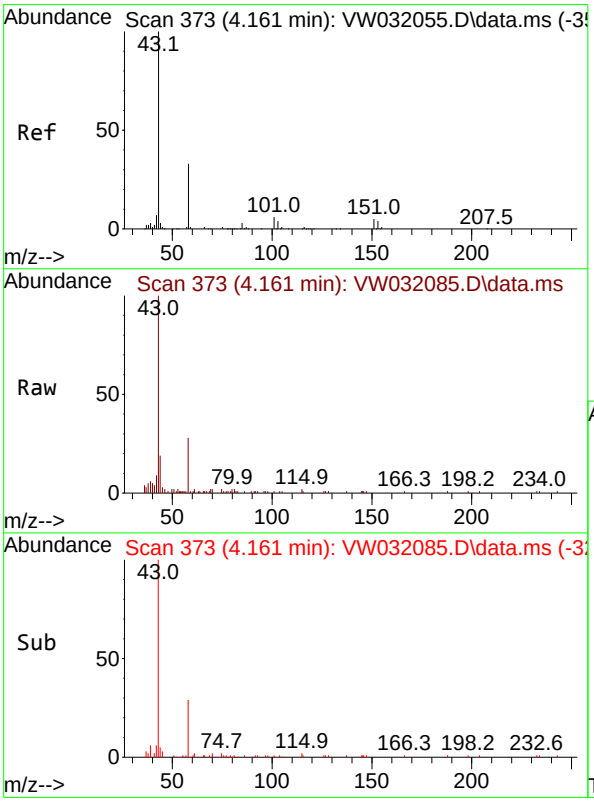
Ion	Ratio	Lower	Upper
168	100		
99	69.7	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations
APPROVED

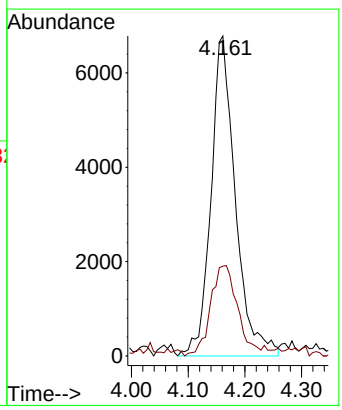
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

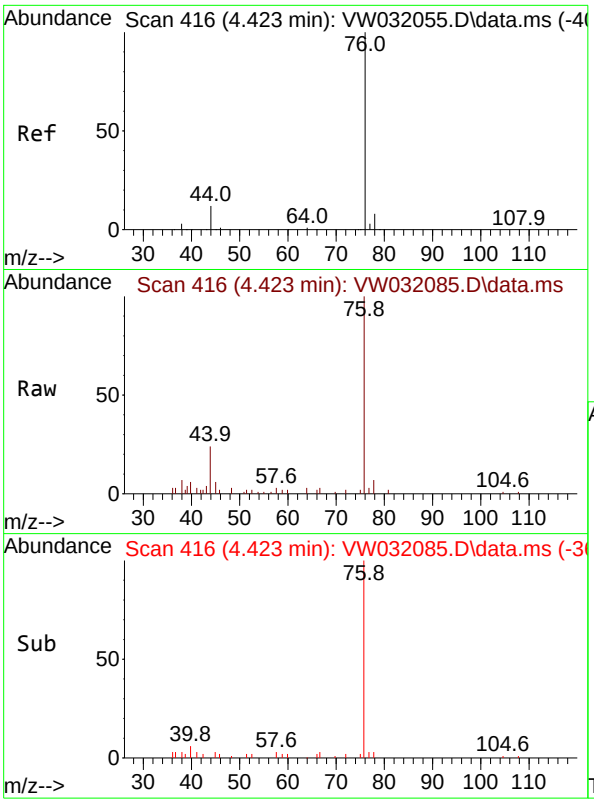


#16
Acetone
Concen: 40.202 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 43 Resp: 20268

Ion	Ratio	Lower	Upper
43	100		
58	26.1	26.6	39.8#





#17
Carbon Disulfide
Concen: 2.880 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

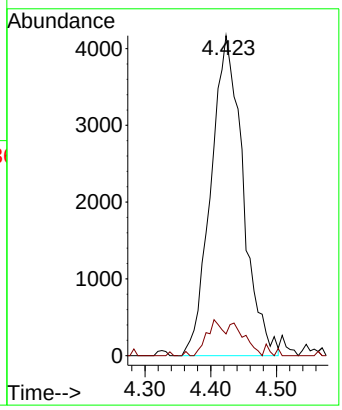
Tgt Ion: 76 Resp: 1411

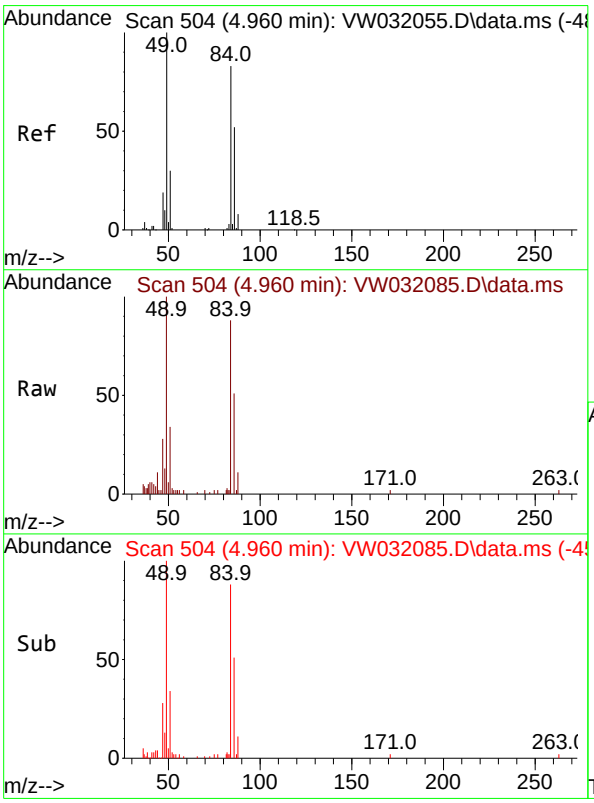
Ion	Ratio	Lower	Upper
76	100		
78	6.8	6.4	9.6

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

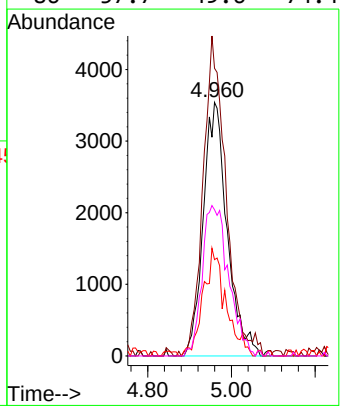


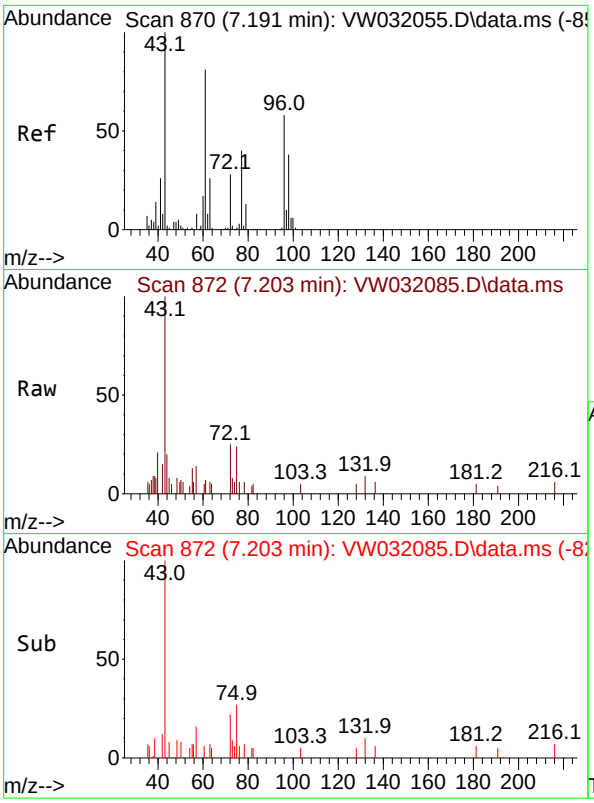


#20
Methylene Chloride
Concen: 6.043 ug/l m
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 84 Resp: 14087

Ion	Ratio	Lower	Upper
84	100		
49	113.4	95.9	143.9
51	38.0	28.6	43.0
86	57.7	49.6	74.4





#25
2-Butanone
Concen: 5.324 ug/l
RT: 7.203 min Scan# 8
Delta R.T. 0.012 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

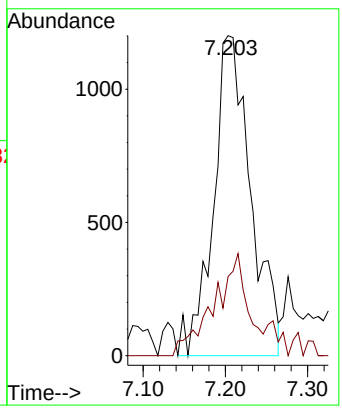
Tgt Ion: 43 Resp: 381

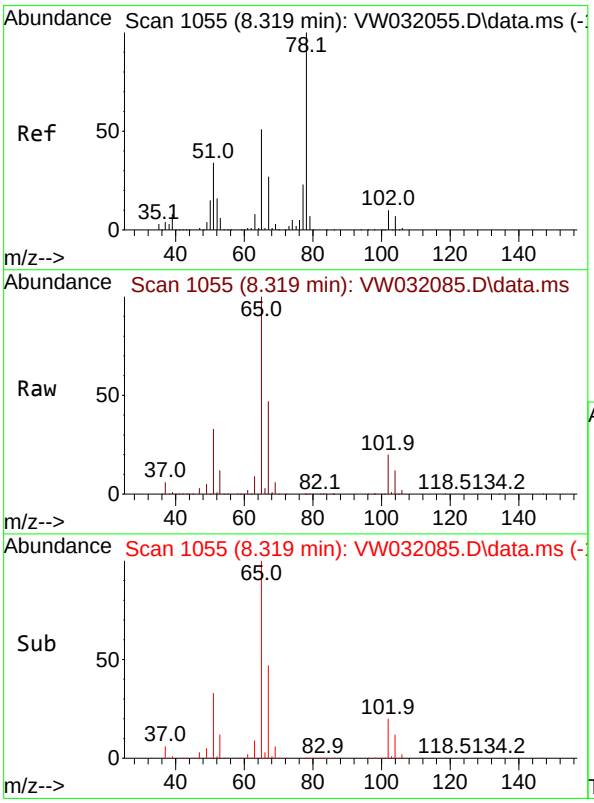
Ion	Ratio	Lower	Upper
43	100		
72	20.5	22.3	33.5#

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

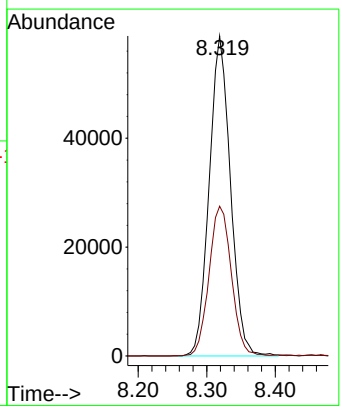


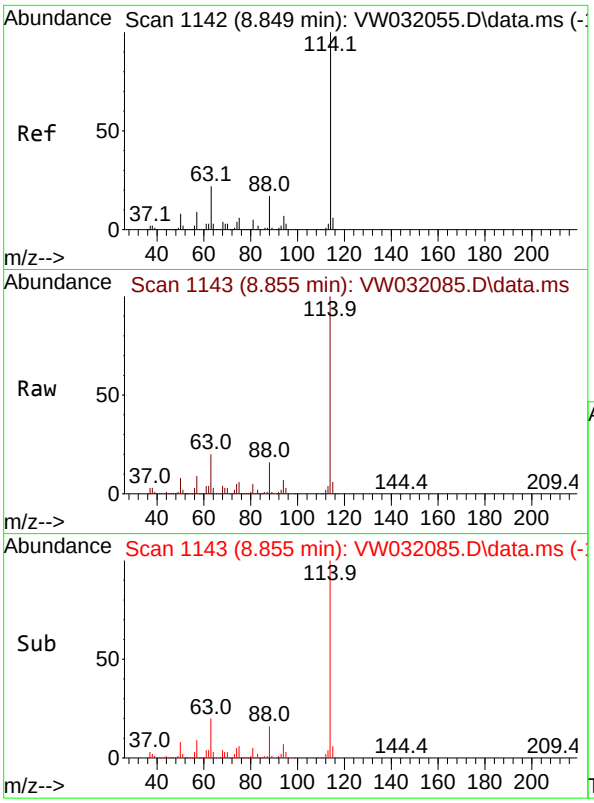


#33
1,2-Dichloroethane-d4
Concen: 58.164 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 65 Resp: 126653

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	102.4

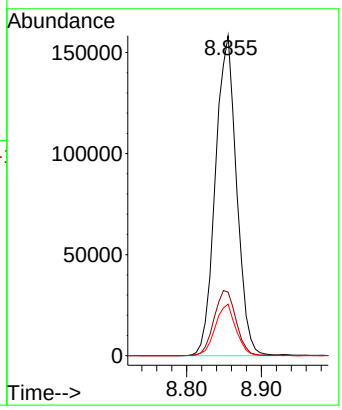




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:114 Resp: 31230

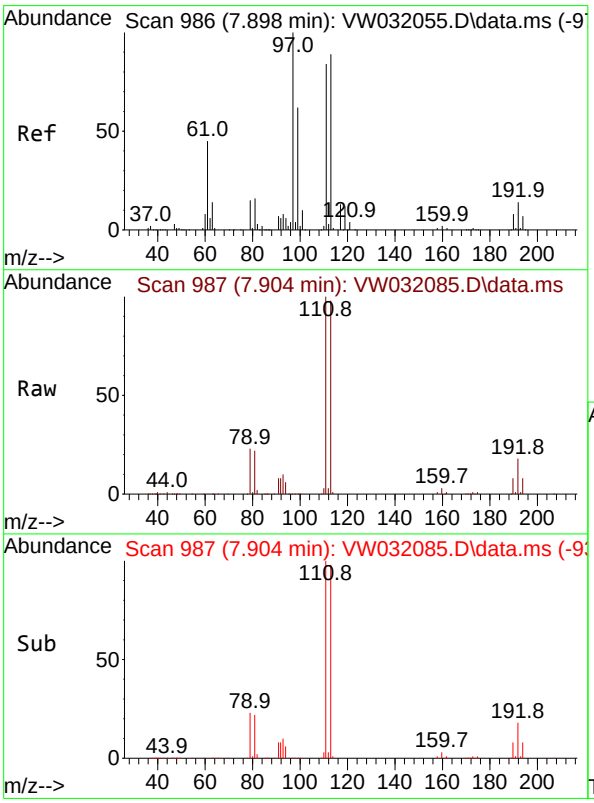
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	43.0
88	16.1	0.0	33.8



Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations
APPROVED

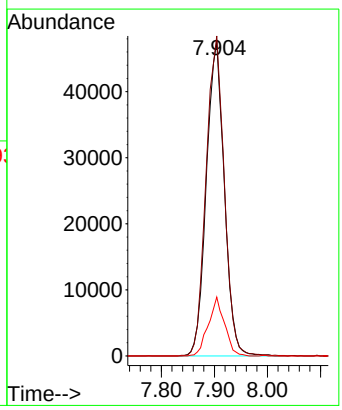
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

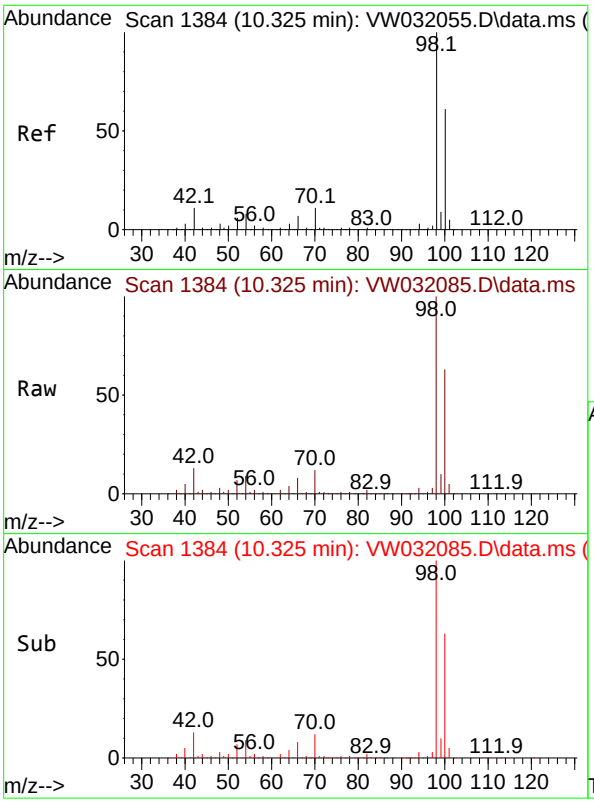


#35
Dibromofluoromethane
Concen: 55.445 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:113 Resp: 111867

Ion	Ratio	Lower	Upper
113	100		
111	103.5	80.1	120.1
192	17.0	13.1	19.7





#50
Toluene-d8
Concen: 50.830 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

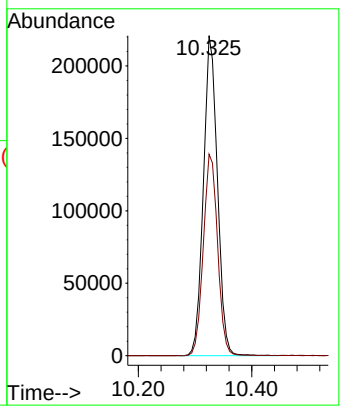
Tgt Ion: 98 Resp: 37932

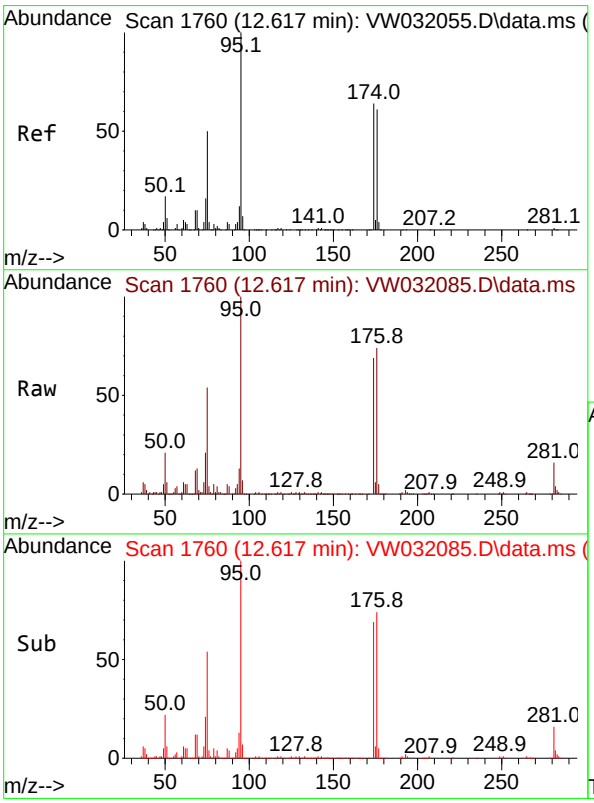
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

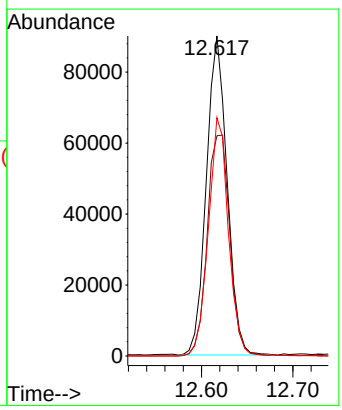


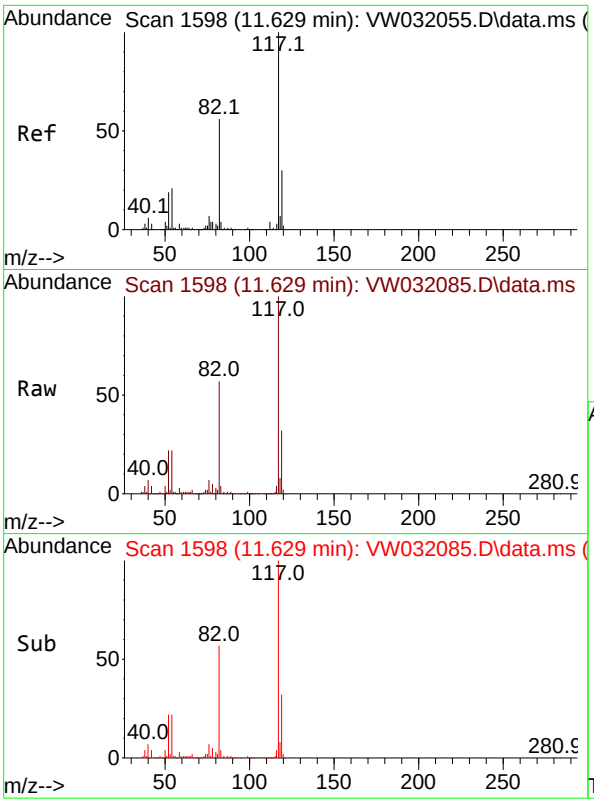


#62
4-Bromofluorobenzene
Concen: 51.561 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 95 Resp: 141794

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	129.0
176	72.2	0.0	124.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

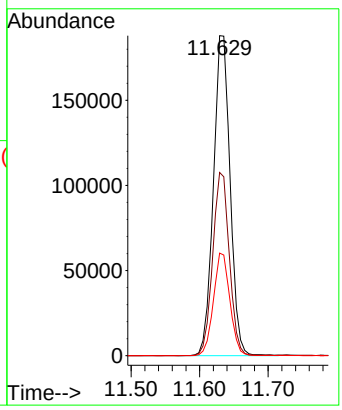
Tgt Ion:117 Resp: 31711

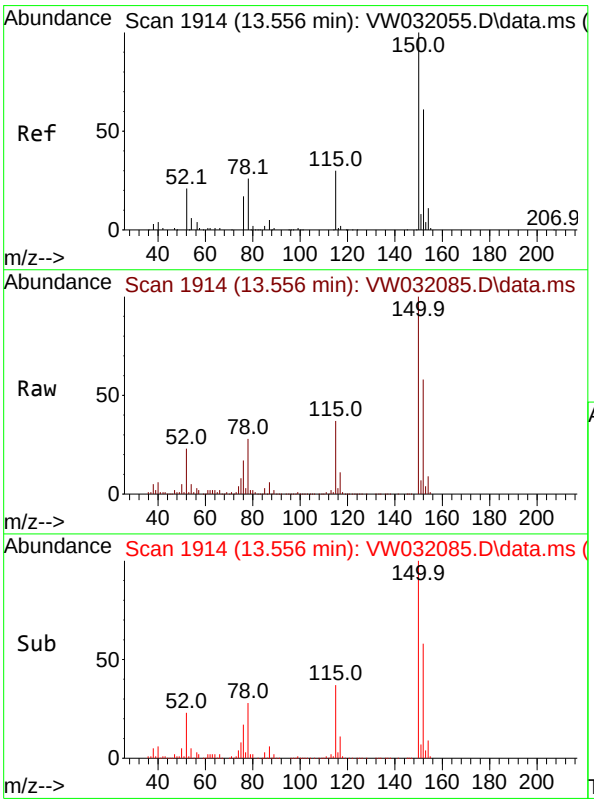
Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.0	67.4
119	32.0	24.2	36.4

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

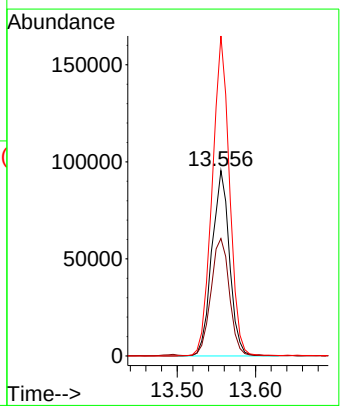




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:152 Resp: 149119

Ion	Ratio	Lower	Upper
152	100		
115	65.9	32.6	97.8
150	169.6	0.0	359.4



Sample Results: **VW032085.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032085.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.155	365	372	386	rVB2	13850	46253	4.19%	0.634%
2	4.423	406	416	424	rBV2	5871	19342	1.75%	0.265%
3	4.960	494	504	524	rBV2	14377	64054	5.80%	0.878%
4	5.972	660	670	681	rVB9	4157	14089	1.28%	0.193%
5	7.197	858	871	884	rVB9	3019	12226	1.11%	0.168%
6	7.904	976	987	991	rBV	161094	377975	34.23%	5.181%
7	7.959	991	996	1008	rVB	217891	508378	46.04%	6.969%
8	8.319	1045	1055	1067	rBV	156178	345609	31.30%	4.738%
9	8.855	1133	1143	1153	rBV	381710	776588	70.34%	10.645%
10	10.325	1376	1384	1391	rBV	595621	1033549	93.61%	14.168%
11	10.392	1391	1395	1400	rVB	15614	28584	2.59%	0.392%
12	10.507	1408	1414	1420	rVB4	10230	17235	1.56%	0.236%
13	11.416	1554	1563	1571	rVB8	8593	24890	2.25%	0.341%
14	11.513	1573	1579	1584	rVB3	7480	12917	1.17%	0.177%
15	11.629	1591	1598	1607	rBV	600029	1015110	91.94%	13.915%
16	11.843	1623	1633	1636	rBV3	22155	45812	4.15%	0.628%
17	11.916	1642	1645	1651	rVB3	7127	11998	1.09%	0.164%
18	12.013	1656	1661	1666	rBV2	22220	35281	3.20%	0.484%
19	12.135	1674	1681	1692	rBV9	14887	43630	3.95%	0.598%
20	12.251	1692	1700	1704	rVB3	14723	26257	2.38%	0.360%
21	12.361	1704	1718	1719	rBV6	21393	57100	5.17%	0.783%
22	12.525	1738	1745	1750	rBV6	11682	30132	2.73%	0.413%
23	12.617	1752	1760	1768	rVB2	484841	872426	79.02%	11.959%
24	12.714	1772	1776	1782	rVB9	7795	14269	1.29%	0.196%
25	12.775	1782	1786	1792	rVB7	22218	43016	3.90%	0.590%
26	12.855	1792	1799	1803	rBV6	12799	29351	2.66%	0.402%
27	12.928	1804	1811	1819	rBV4	68343	186130	16.86%	2.551%
28	13.074	1832	1835	1839	rVB3	10444	13737	1.24%	0.188%
29	13.123	1839	1843	1845	rBV3	9401	13871	1.26%	0.190%
30	13.159	1845	1849	1852	rBV3	22152	31097	2.82%	0.426%
31	13.403	1881	1889	1892	rBV4	25146	55633	5.04%	0.763%
32	13.446	1892	1896	1899	rVV2	36545	64758	5.87%	0.888%
33	13.495	1899	1904	1908	rVV2	28767	65709	5.95%	0.901%
34	13.556	1908	1914	1930	rVB	644313	1104090	100.00%	15.135%
35	13.696	1931	1937	1941	rVB7	8850	15146	1.37%	0.208%
36	13.757	1941	1947	1952	rBV7	12242	26811	2.43%	0.368%

Sample Results: **VW032085.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

37	13.873	1961	1966	1971	rBV4	44952	80697	7.31%	1.106%
38	14.062	1993	1997	2004	rVB	16712	26855	2.43%	0.368%
39	14.208	2014	2021	2025	rBV7	8833	20719	1.88%	0.284%
40	14.379	2045	2049	2053	rBV5	10189	15118	1.37%	0.207%
41	14.495	2063	2068	2071	rBV5	9871	18625	1.69%	0.255%
42	14.714	2100	2104	2109	rVB5	8940	13481	1.22%	0.185%
43	14.915	2133	2137	2142	rVB4	9932	15030	1.36%	0.206%
44	15.110	2163	2169	2176	rBV10	9505	21578	1.95%	0.296%

Sum of corrected areas: 7295156

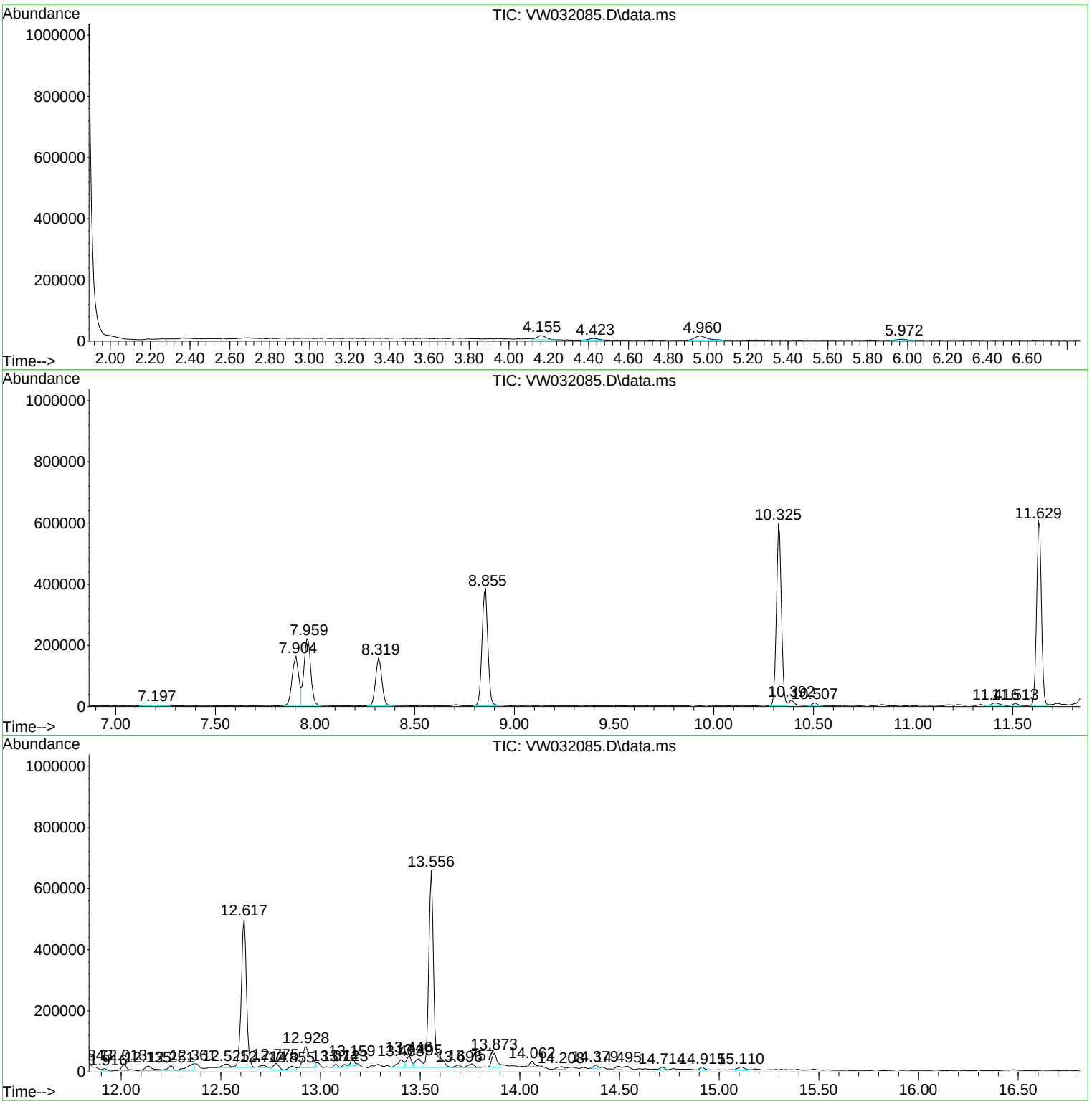
Sample Results: **VW032085.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

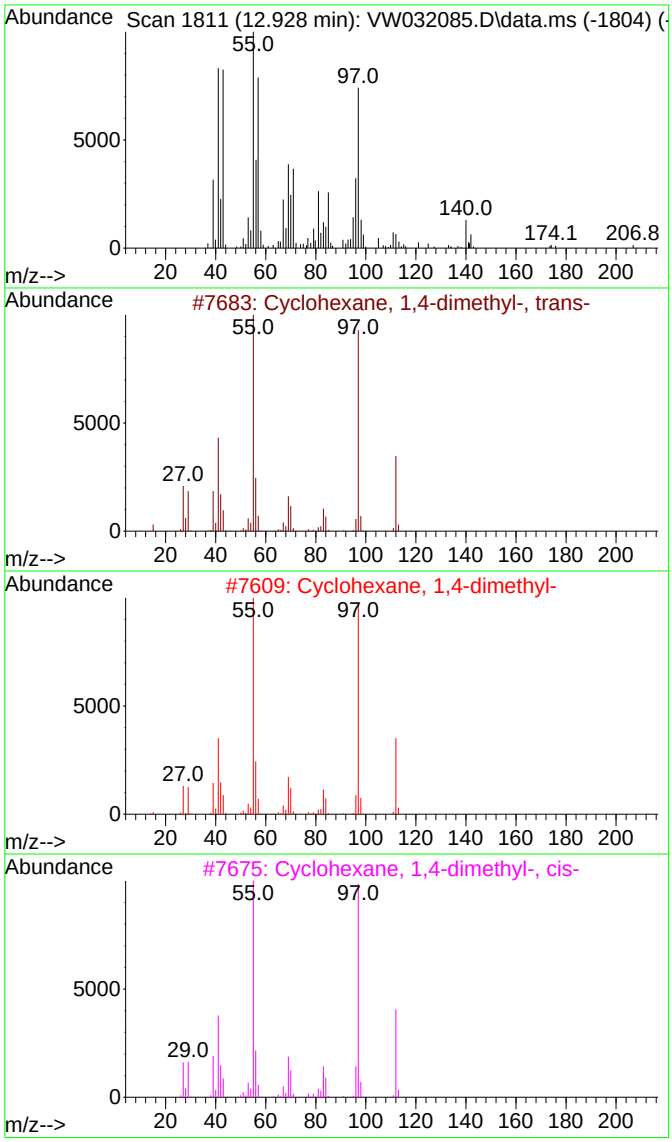
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

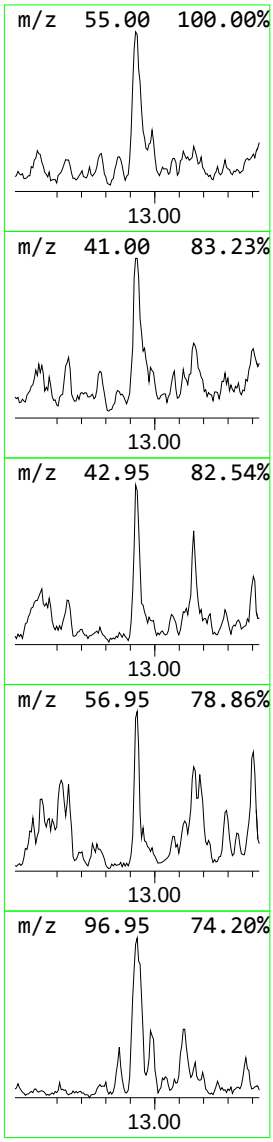
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown12.928 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.928	8.43 ug/l	186130	1,4-Dichlorobenzene-d4	13.556

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	46
2	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	46
3	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	43
4	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	43
5	Cycloheptane, methyl-	112	C8H16	004126-78-7	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown12.928	12.928	8.4	ug/l	186130	4	13.556	1104090	50.0

Raw Data: **VW032086.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.4
Sample Wt/Vol:	7.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032086.D	1	08/14/25 12:24	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.00	U	0.86	3.00	3.80	ug/Kg
74-87-3	Chloromethane	1.90	U	0.86	1.90	3.80	ug/Kg
75-01-4	Vinyl Chloride	1.90	U	0.59	1.90	3.80	ug/Kg
74-83-9	Bromomethane	3.00	U	0.80	3.00	3.80	ug/Kg
75-00-3	Chloroethane	1.90	U	0.95	1.90	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	3.00	U	0.91	3.00	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	0.80	1.90	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.90	U	0.75	1.90	3.80	ug/Kg
67-64-1	Acetone	12.1	J	3.60	15.0	18.8	ug/Kg
75-15-0	Carbon Disulfide	3.00	U	0.80	3.00	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.90	U	0.55	1.90	3.80	ug/Kg
79-20-9	Methyl Acetate	3.00	U	1.20	3.00	3.80	ug/Kg
75-09-2	Methylene Chloride	4.70	J	2.70	6.00	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.90	U	0.65	1.90	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.90	U	0.60	1.90	3.80	ug/Kg
110-82-7	Cyclohexane	1.90	U	0.59	1.90	3.80	ug/Kg
78-93-3	2-Butanone	15.0	U	4.90	15.0	18.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.90	U	0.73	1.90	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.90	U	0.56	1.90	3.80	ug/Kg
74-97-5	Bromochloromethane	3.00	U	0.86	3.00	3.80	ug/Kg
67-66-3	Chloroform	3.00	U	0.63	3.00	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.90	U	0.70	1.90	3.80	ug/Kg
108-87-2	Methylcyclohexane	1.90	U	0.68	1.90	3.80	ug/Kg
71-43-2	Benzene	1.90	U	0.59	1.90	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.90	U	0.59	1.90	3.80	ug/Kg
79-01-6	Trichloroethene	1.90	U	0.61	1.90	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.90	U	0.68	1.90	3.80	ug/Kg
75-27-4	Bromodichloromethane	1.90	U	0.59	1.90	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.40	U	2.70	9.40	18.8	ug/Kg
108-88-3	Toluene	1.90	U	0.59	1.90	3.80	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.4
Sample Wt/Vol:	7.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032086.D	1	08/14/25 12:24	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.90	U	0.49	1.90	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.90	U	0.47	1.90	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.90	U	0.69	1.90	3.80	ug/Kg
591-78-6	2-Hexanone	9.40	U	2.80	9.40	18.8	ug/Kg
124-48-1	Dibromochloromethane	1.90	U	0.65	1.90	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.90	U	0.66	1.90	3.80	ug/Kg
127-18-4	Tetrachloroethene	1.90	U	0.79	1.90	3.80	ug/Kg
108-90-7	Chlorobenzene	1.90	U	0.68	1.90	3.80	ug/Kg
100-41-4	Ethyl Benzene	1.90	U	0.50	1.90	3.80	ug/Kg
179601-23-1	m/p-Xylenes	3.80	U	0.93	3.80	7.50	ug/Kg
95-47-6	o-Xylene	1.90	U	0.62	1.90	3.80	ug/Kg
100-42-5	Styrene	1.90	U	0.53	1.90	3.80	ug/Kg
75-25-2	Bromoform	1.90	U	0.65	1.90	3.80	ug/Kg
98-82-8	Isopropylbenzene	1.90	U	0.59	1.90	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	0.91	1.90	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.30	1.90	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.20	1.90	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.90	U	1.10	1.90	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.00	U	1.40	3.00	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	2.20	3.00	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	2.40	3.00	3.80	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.5		71 - 136		115%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		78 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	52.2		85 - 116		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		79 - 119		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	158000	7.965				
540-36-3	1,4-Difluorobenzene	312000	8.849				
3114-55-4	Chlorobenzene-d5	306000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	150000	13.556				

Raw Data: **VW032086.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.4
Sample Wt/Vol:	7.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032086.D	1	08/14/25 12:24	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032086.D
Acq On : 14 Aug 2025 12:24
Operator : SY/MD
Sample : Q2820-03
Misc : 7.62g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Quant Time: Aug 18 03:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

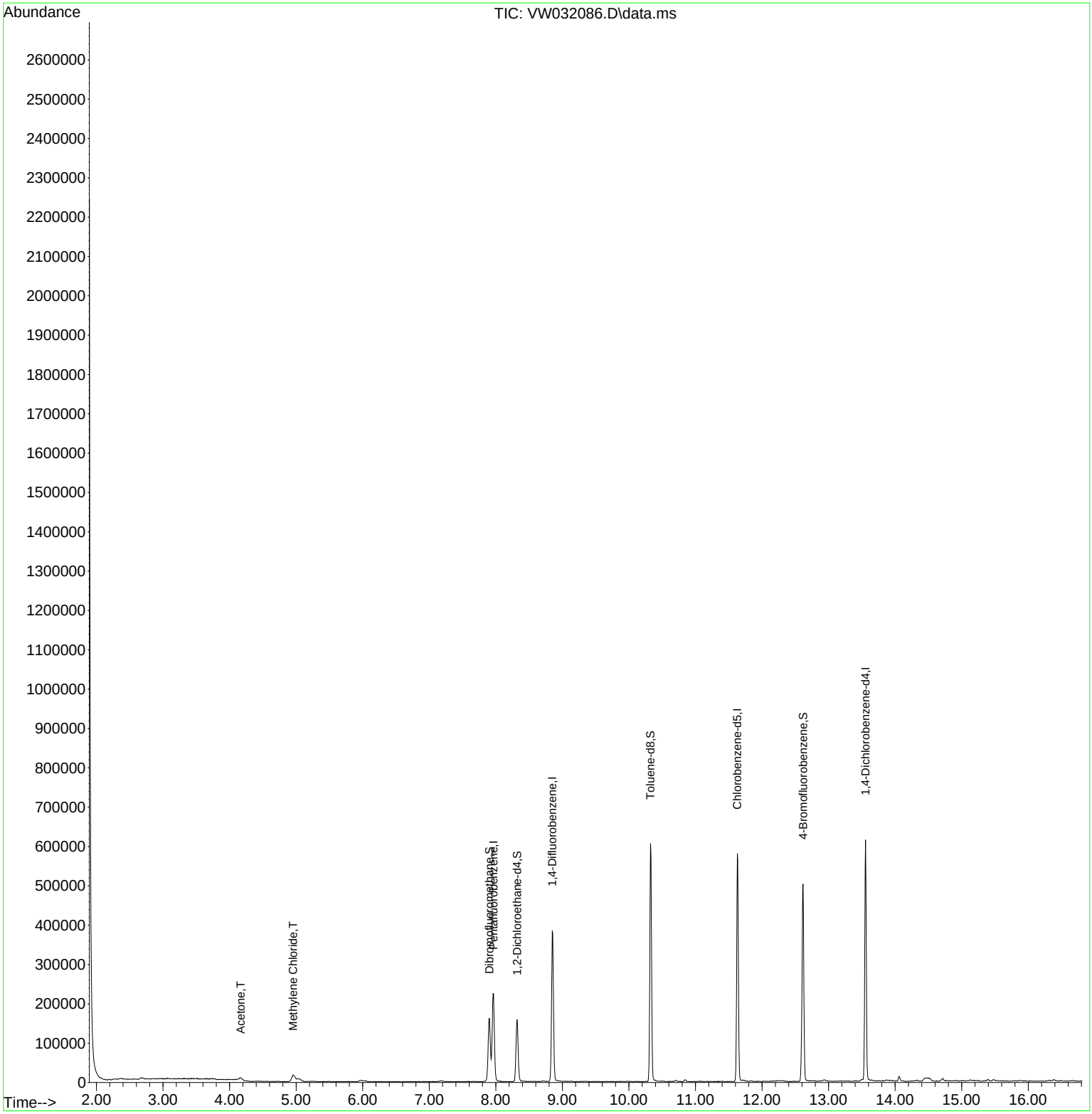
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	157879	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.849	114	311642	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	306017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	150411	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	131250	57.481	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 114.960%			
35) Dibromofluoromethane	7.904	113	112046	55.652	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 111.300%			
50) Toluene-d8	10.325	98	388880	52.222	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 104.440%			
62) 4-Bromofluorobenzene	12.617	95	143127	52.156	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.320%			
Target Compounds						Qvalue
16) Acetone	4.167	43	8531	16.137	ug/l #	86
20) Methylene Chloride	4.954	84	15161	6.203	ug/l	94

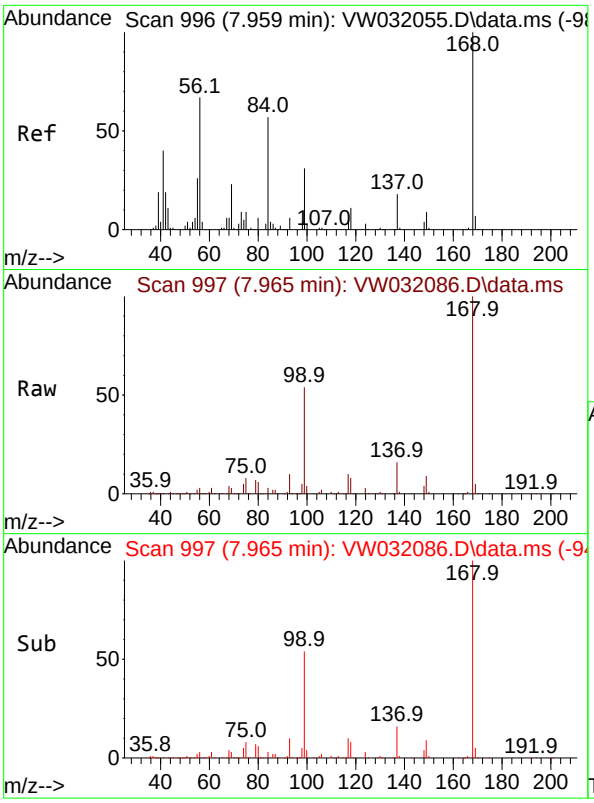
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032086.D
Acq On : 14 Aug 2025 12:24
Operator : SY/MD
Sample : Q2820-03
Misc : 7.62g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Quant Time: Aug 18 03:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



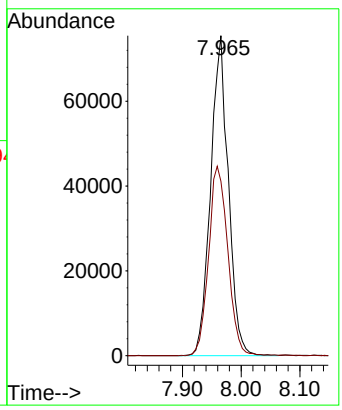


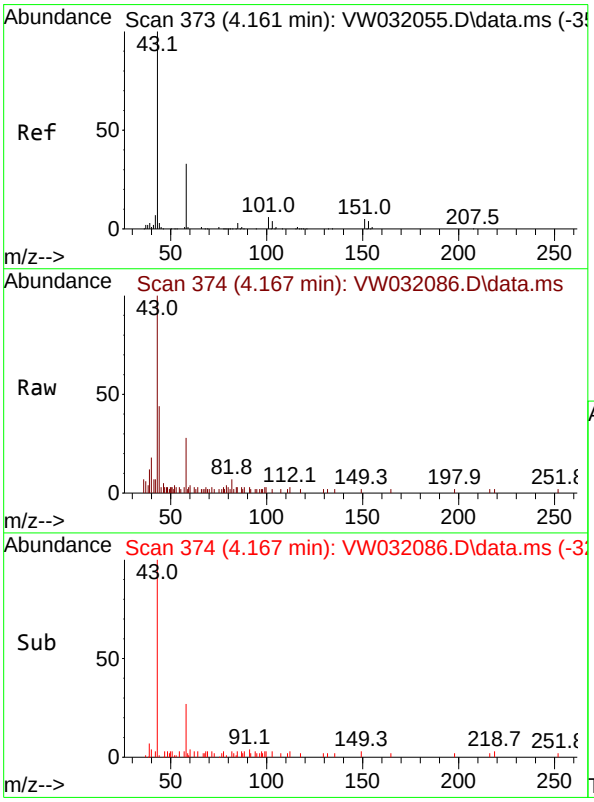
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Tgt Ion:168 Resp: 157879

Ion	Ratio	Lower	Upper
168	100		
99	54.5	56.0	84.0#

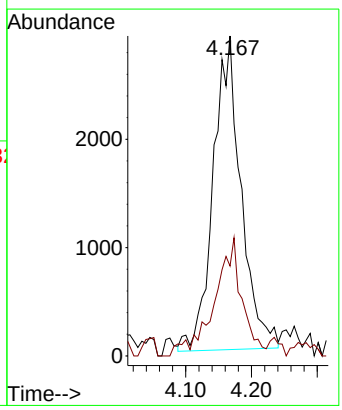


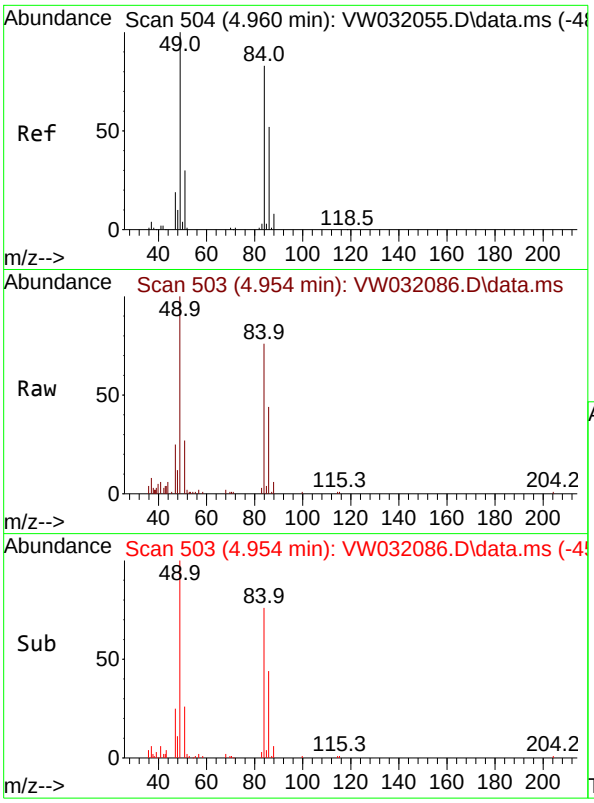


#16
Acetone
Concen: 16.137 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 43 Resp: 8531

Ion	Ratio	Lower	Upper
43	100		
58	25.1	26.6	39.8#



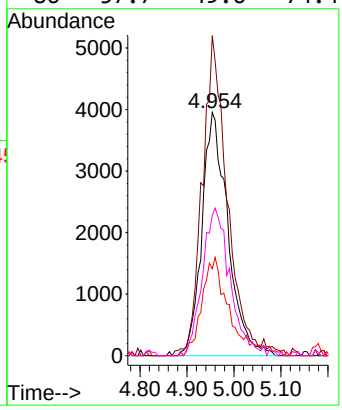


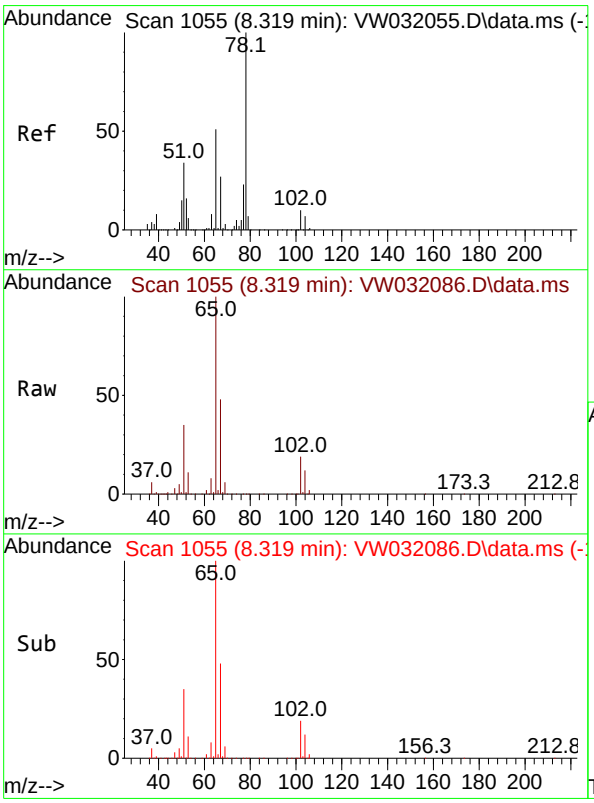
#20
Methylene Chloride
Concen: 6.203 ug/l
RT: 4.954 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Tgt Ion: 84 Resp: 15161

Ion	Ratio	Lower	Upper
84	100		
49	129.4	95.9	143.9
51	35.7	28.6	43.0
86	57.7	49.6	74.4

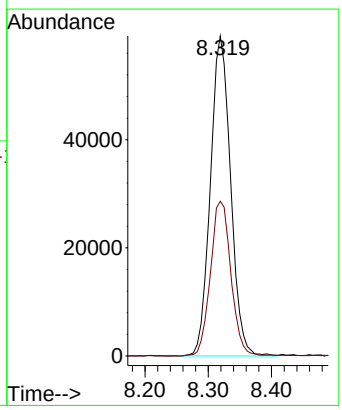


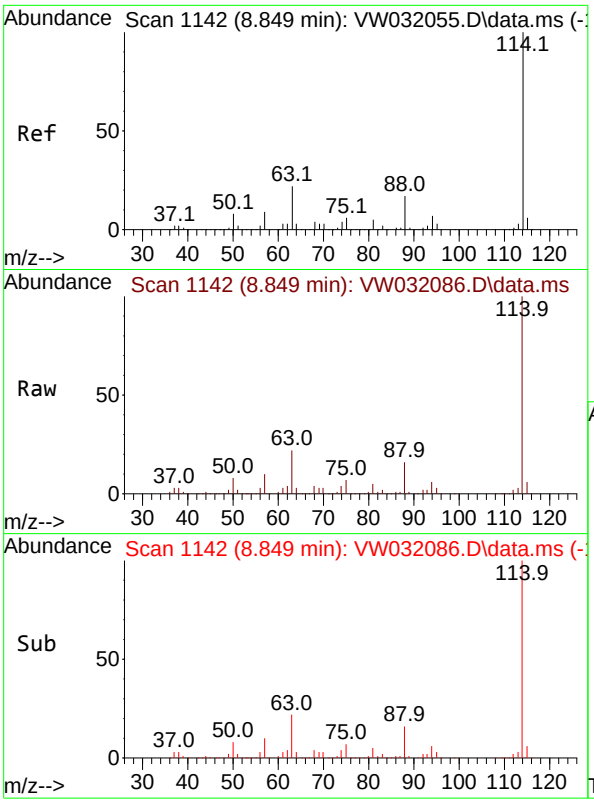


#33
1,2-Dichloroethane-d4
Concen: 57.481 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 65 Resp: 131250

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	102.4



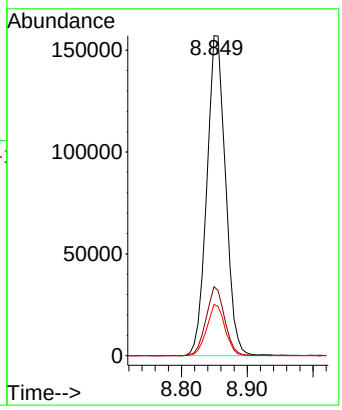


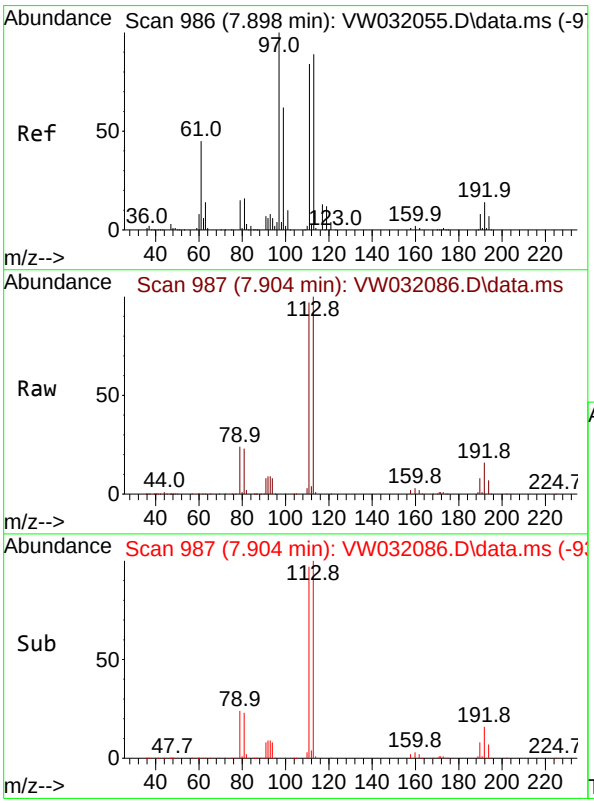
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Tgt Ion:114 Resp: 311642

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.0
88	16.0	0.0	33.8

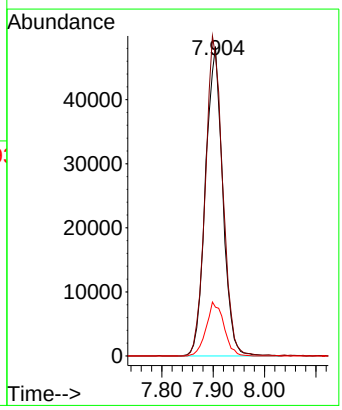


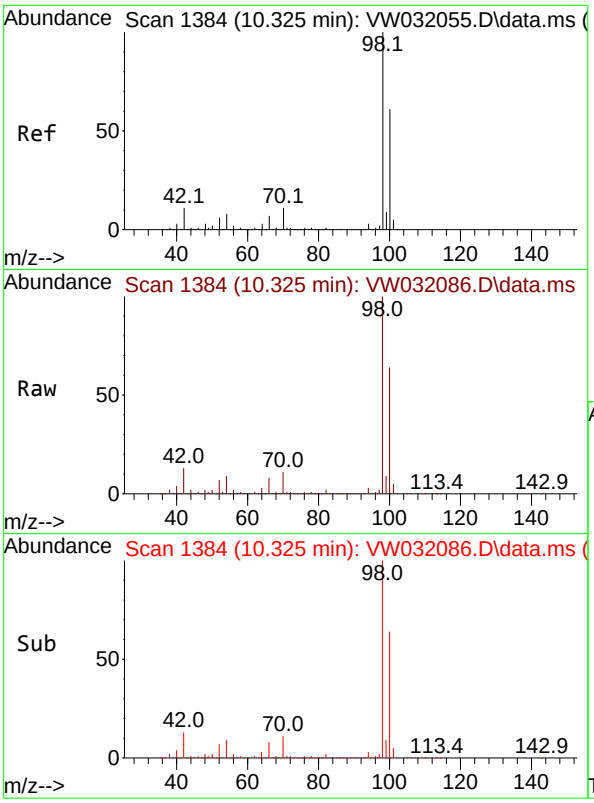


#35
Dibromofluoromethane
Concen: 55.652 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Tgt Ion:113 Resp: 112046

Ion	Ratio	Lower	Upper
113	100		
111	104.3	80.1	120.1
192	18.0	13.1	19.7



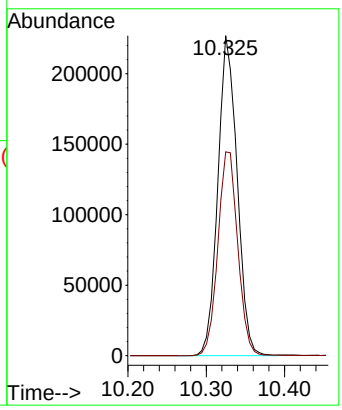


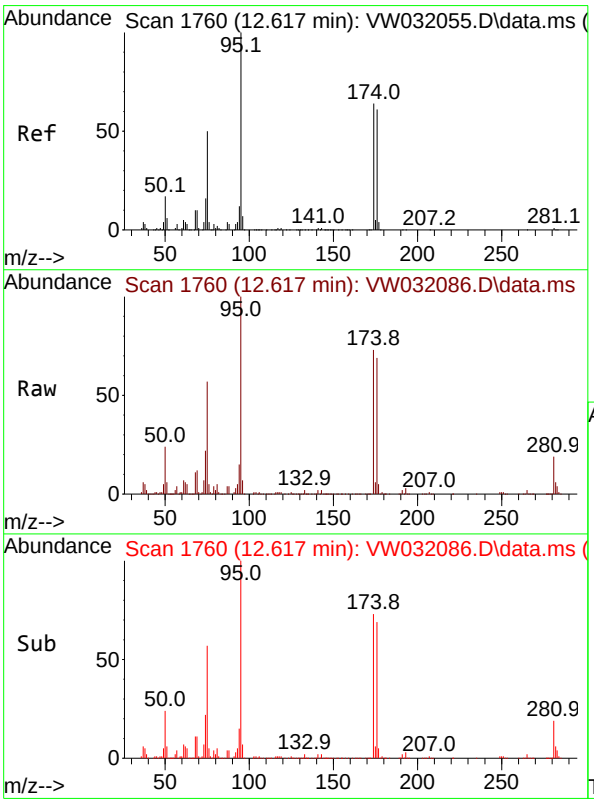
#50
Toluene-d8
Concen: 52.222 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Tgt Ion: 98 Resp: 388880

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.1	76.7

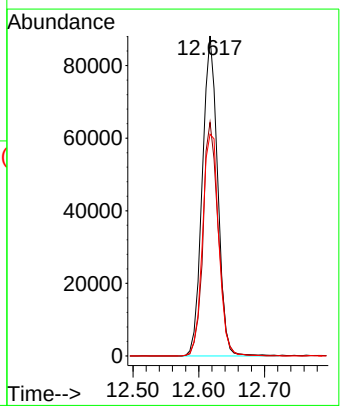


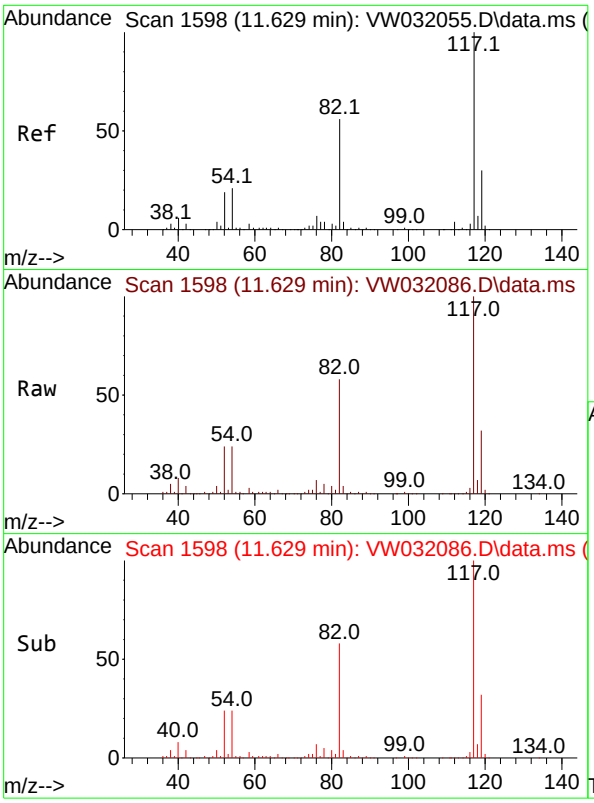


#62
4-Bromofluorobenzene
Concen: 52.156 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Tgt Ion: 95 Resp: 143127

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	129.0
176	73.1	0.0	124.6



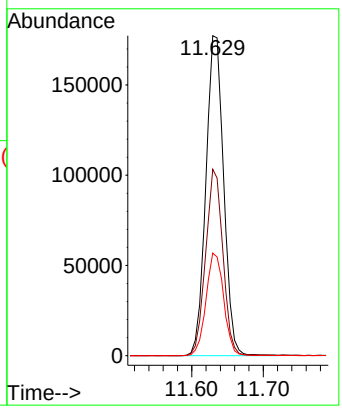


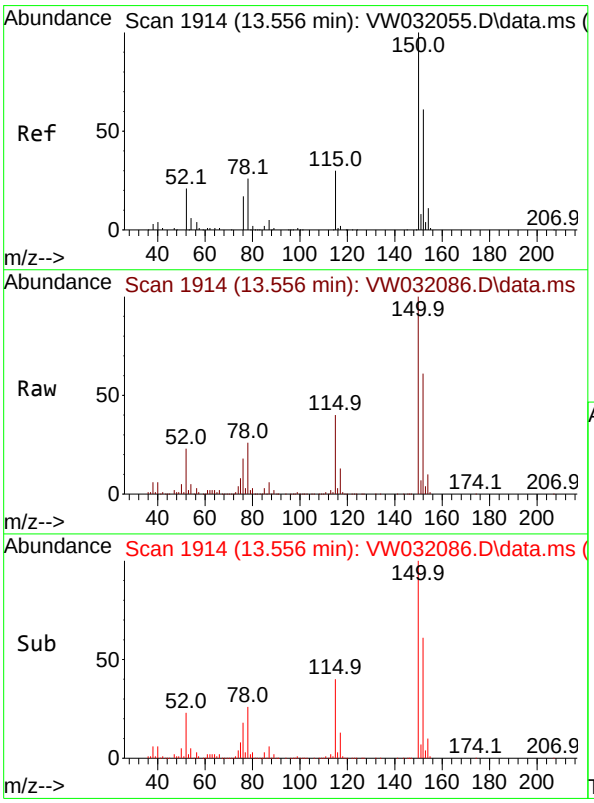
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Tgt Ion:117 Resp: 306017

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.0	67.4
119	32.1	24.2	36.4

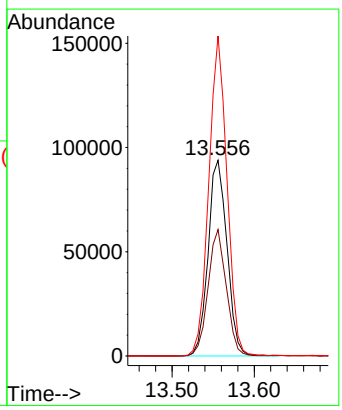




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032086.D
Acq: 14 Aug 2025 12:24

Tgt Ion:152 Resp: 150411

Ion	Ratio	Lower	Upper
152	100		
115	62.3	32.6	97.8
150	156.7	0.0	359.4



Sample Results: **VW032086.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032086.D
Acq On : 14 Aug 2025 12:24
Operator : SY/MD
Sample : Q2820-03
Misc : 7.62g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-N

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032086.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	367	373	383	rVB4	7771	27354	2.56%	0.449%
2	4.954	492	503	513	rBV2	16992	69299	6.48%	1.138%
3	7.904	975	987	991	rBV	160549	384786	36.00%	6.317%
4	7.959	991	996	1008	rVB	223170	517167	48.38%	8.490%
5	8.319	1047	1055	1065	rBV	157024	348138	32.57%	5.715%
6	8.849	1133	1142	1151	rBV	383418	766160	71.67%	12.577%
7	10.325	1377	1384	1394	rBV	605015	1068989	100.00%	17.548%
8	11.629	1589	1598	1608	rBV	580166	998701	93.42%	16.394%
9	12.617	1749	1760	1770	rBV2	502081	942905	88.21%	15.478%
10	13.556	1907	1914	1927	rVB	611204	968220	90.57%	15.894%

Sum of corrected areas: 6091719

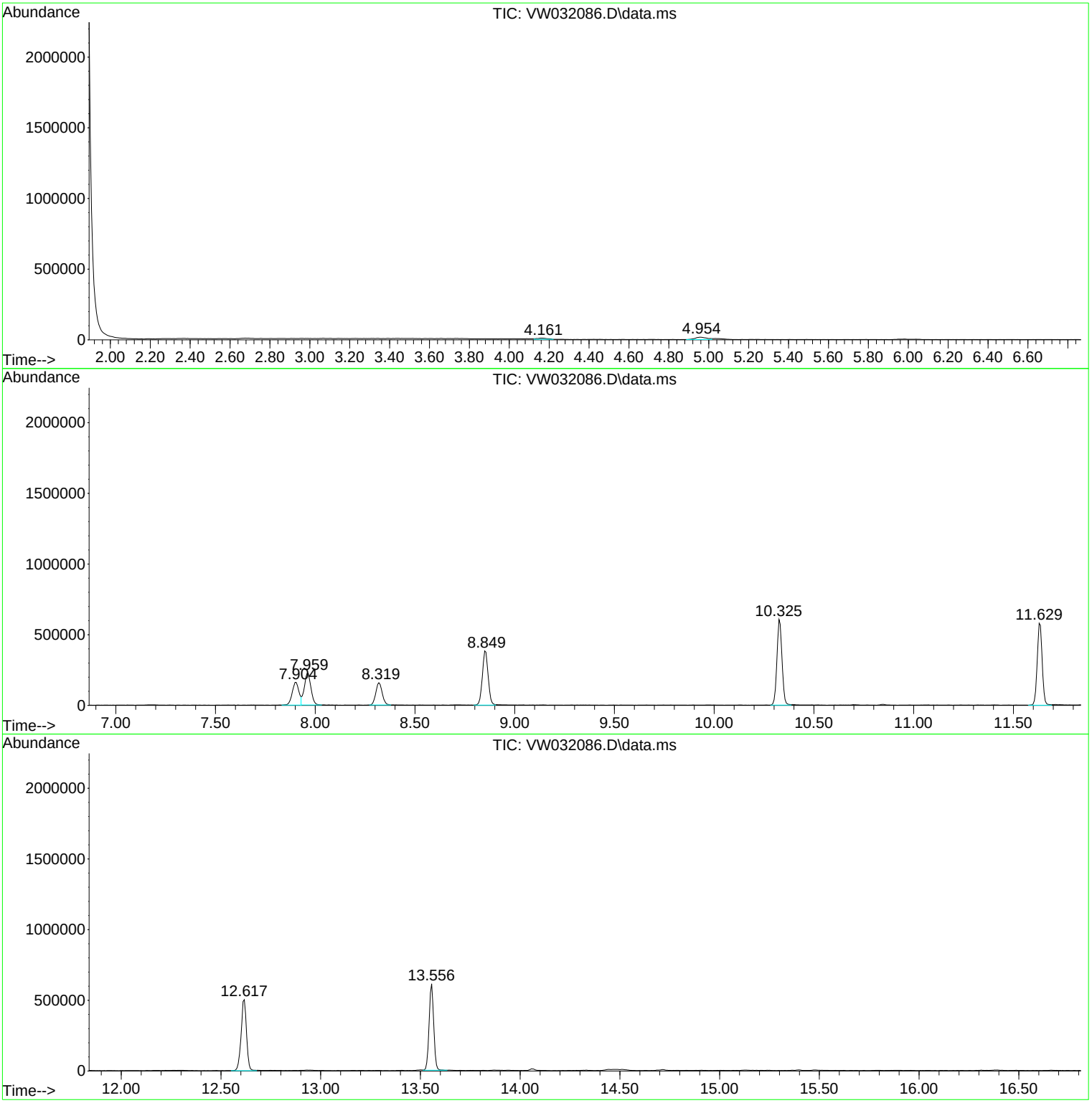
Sample Results: **VW032086.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032086.D
Acq On : 14 Aug 2025 12:24
Operator : SY/MD
Sample : Q2820-03
Misc : 7.62g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032086.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032086.D
Acq On : 14 Aug 2025 12:24
Operator : SY/MD
Sample : Q2820-03
Misc : 7.62g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032086.D
Acq On : 14 Aug 2025 12:24
Operator : SY/MD
Sample : Q2820-03
Misc : 7.62g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032087.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-1	SDG No.:	Q2820
Lab Sample ID:	Q2820-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.8 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032087.D	1	08/14/25 12:46	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.00	U	0.84	3.00	3.70	ug/Kg
74-87-3	Chloromethane	1.80	U	0.84	1.80	3.70	ug/Kg
75-01-4	Vinyl Chloride	1.80	U	0.58	1.80	3.70	ug/Kg
74-83-9	Bromomethane	3.00	U	0.79	3.00	3.70	ug/Kg
75-00-3	Chloroethane	1.80	U	0.93	1.80	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	3.00	U	0.89	3.00	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	0.78	1.80	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	0.74	1.80	3.70	ug/Kg
67-64-1	Acetone	14.8	U	3.50	14.8	18.5	ug/Kg
75-15-0	Carbon Disulfide	3.00	U	0.78	3.00	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	0.54	1.80	3.70	ug/Kg
79-20-9	Methyl Acetate	3.00	U	1.10	3.00	3.70	ug/Kg
75-09-2	Methylene Chloride	5.90	U	2.60	5.90	7.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.80	U	0.64	1.80	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	1.80	U	0.59	1.80	3.70	ug/Kg
110-82-7	Cyclohexane	1.80	U	0.58	1.80	3.70	ug/Kg
78-93-3	2-Butanone	14.8	U	4.80	14.8	18.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.80	U	0.72	1.80	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.80	U	0.55	1.80	3.70	ug/Kg
74-97-5	Bromochloromethane	3.00	U	0.85	3.00	3.70	ug/Kg
67-66-3	Chloroform	3.00	U	0.62	3.00	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	0.69	1.80	3.70	ug/Kg
108-87-2	Methylcyclohexane	1.80	U	0.67	1.80	3.70	ug/Kg
71-43-2	Benzene	1.80	U	0.58	1.80	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	1.80	U	0.58	1.80	3.70	ug/Kg
79-01-6	Trichloroethene	1.80	U	0.60	1.80	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	0.67	1.80	3.70	ug/Kg
75-27-4	Bromodichloromethane	1.80	U	0.58	1.80	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.20	U	2.60	9.20	18.5	ug/Kg
108-88-3	Toluene	1.80	U	0.58	1.80	3.70	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-1	SDG No.:	Q2820
Lab Sample ID:	Q2820-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.8 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032087.D	1	08/14/25 12:46	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.80	U	0.48	1.80	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.80	U	0.46	1.80	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.80	U	0.68	1.80	3.70	ug/Kg
591-78-6	2-Hexanone	9.20	U	2.70	9.20	18.5	ug/Kg
124-48-1	Dibromochloromethane	1.80	U	0.64	1.80	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	1.80	U	0.65	1.80	3.70	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	0.78	1.80	3.70	ug/Kg
108-90-7	Chlorobenzene	1.80	U	0.67	1.80	3.70	ug/Kg
100-41-4	Ethyl Benzene	1.80	U	0.49	1.80	3.70	ug/Kg
179601-23-1	m/p-Xylenes	3.70	U	0.92	3.70	7.40	ug/Kg
95-47-6	o-Xylene	1.80	U	0.61	1.80	3.70	ug/Kg
100-42-5	Styrene	1.80	U	0.52	1.80	3.70	ug/Kg
75-25-2	Bromoform	1.80	U	0.64	1.80	3.70	ug/Kg
98-82-8	Isopropylbenzene	1.80	U	0.58	1.80	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.80	U	0.89	1.80	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.30	1.80	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.20	1.80	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.10	1.80	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.00	U	1.40	3.00	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	2.20	3.00	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	2.30	3.00	3.70	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.1		71 - 136		116%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		78 - 119		113%	SPK: 50
2037-26-5	Toluene-d8	51.4		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		79 - 119		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	155000	7.965				
540-36-3	1,4-Difluorobenzene	307000	8.855				
3114-55-4	Chlorobenzene-d5	312000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	148000	13.556				

Raw Data: **VW032087.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-1	SDG No.:	Q2820
Lab Sample ID:	Q2820-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.8 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032087.D	1	08/14/25 12:46	VW081425

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

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

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

Sample Results: **VW032087.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032087.D
Acq On : 14 Aug 2025 12:46
Operator : SY/MD
Sample : Q2820-04
Misc : 7.80g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Quant Time: Aug 18 03:50:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

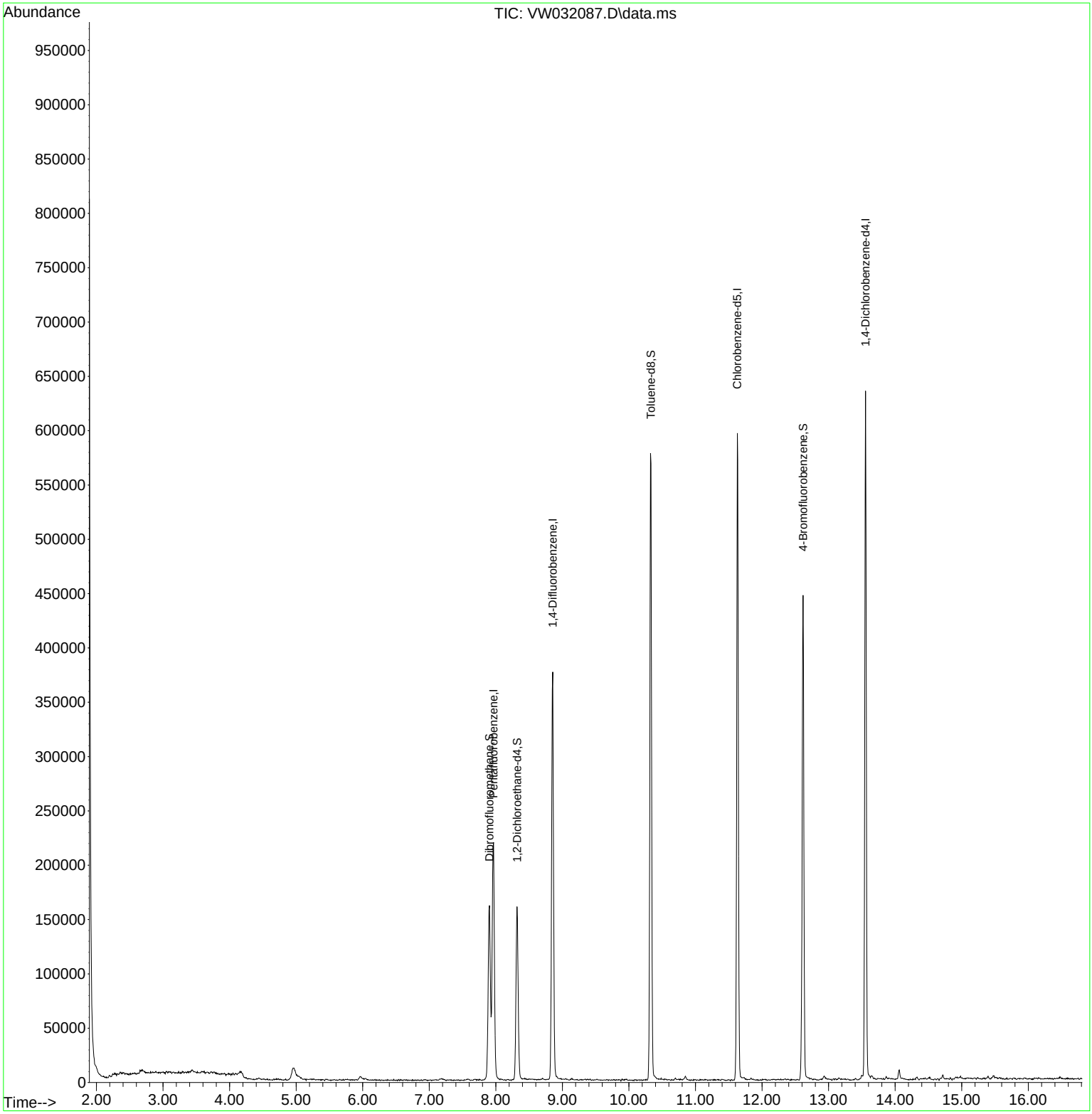
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	155089	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.855	114	306810	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	312208	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	147600	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	130261	58.074	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 116.140%			
35) Dibromofluoromethane	7.904	113	112206	56.609	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 113.220%			
50) Toluene-d8	10.331	98	376479	51.353	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 102.700%			
62) 4-Bromofluorobenzene	12.617	95	136994	50.707	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.420%			
Target Compounds						Qvalue

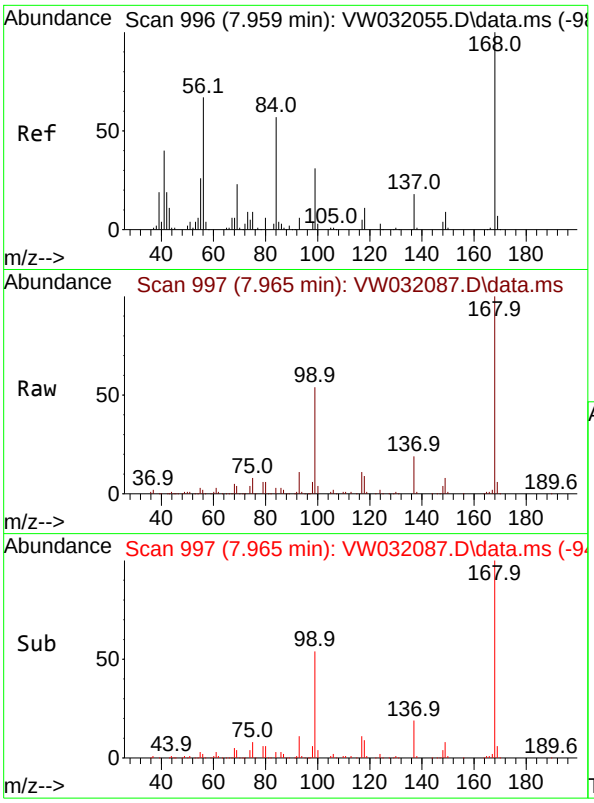
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032087.D
Acq On : 14 Aug 2025 12:46
Operator : SY/MD
Sample : Q2820-04
Misc : 7.80g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Quant Time: Aug 18 03:50:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



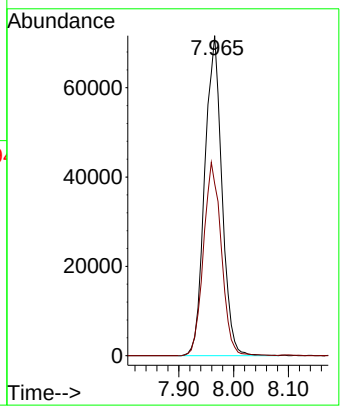


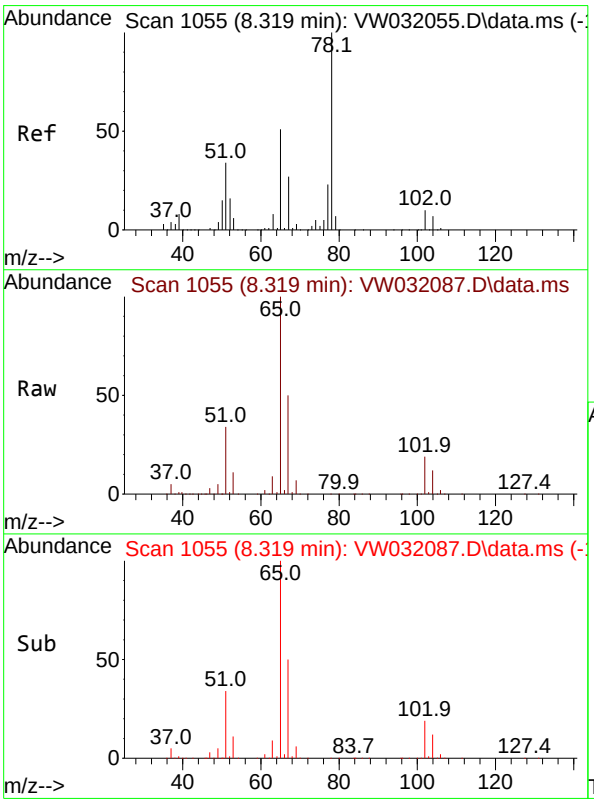
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Tgt Ion:168 Resp: 155089

Ion	Ratio	Lower	Upper
168	100		
99	53.8	56.0	84.0#

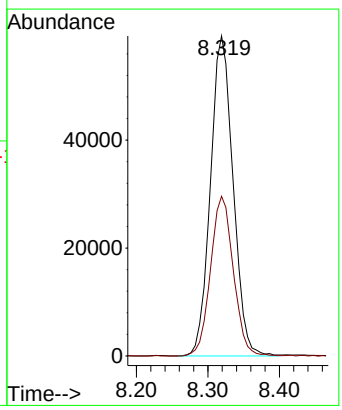


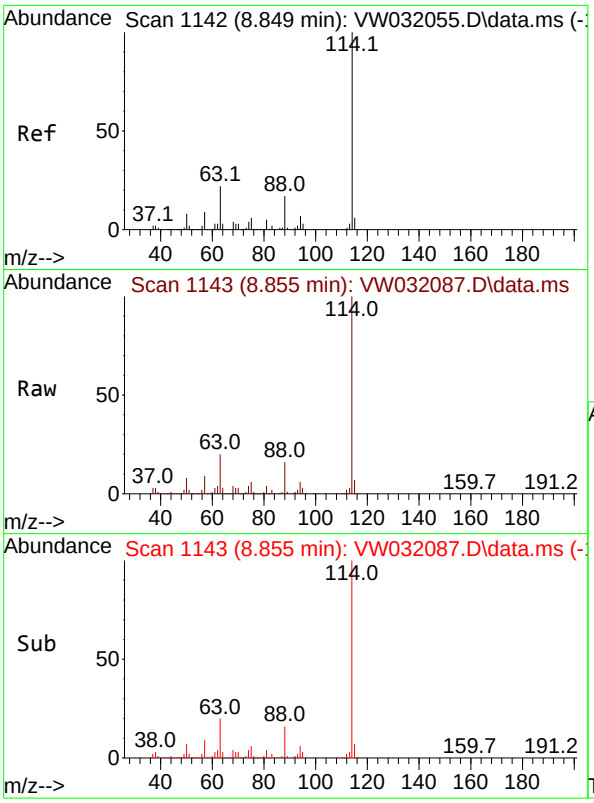


#33
1,2-Dichloroethane-d4
Concen: 58.074 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Tgt Ion: 65 Resp: 130261

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	102.4



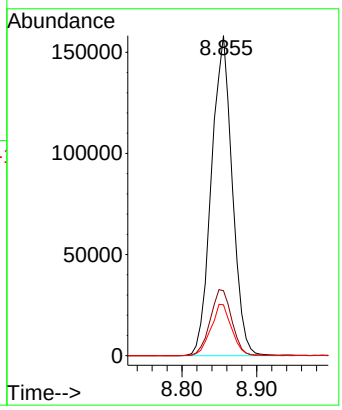


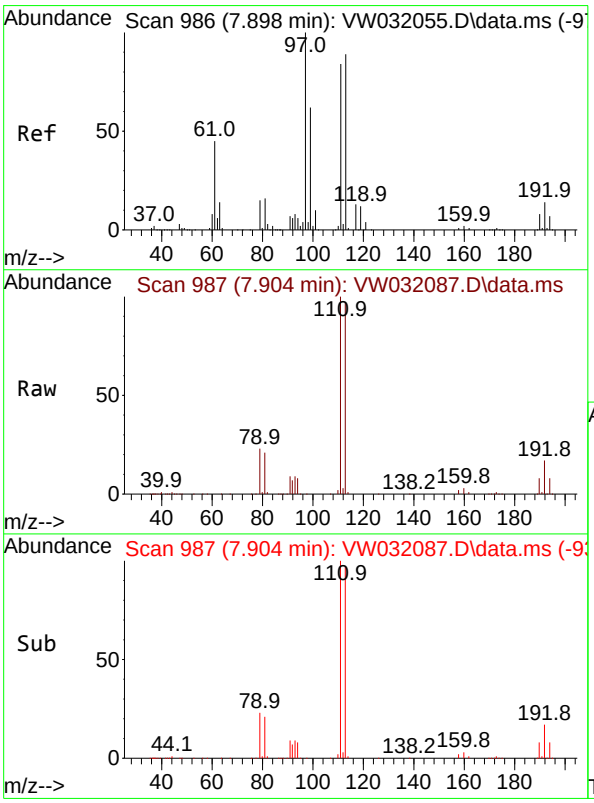
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Tgt Ion:114 Resp: 306810

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.0
88	15.9	0.0	33.8

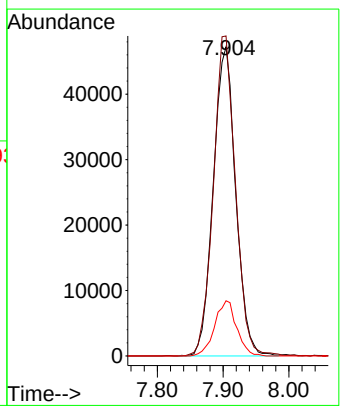


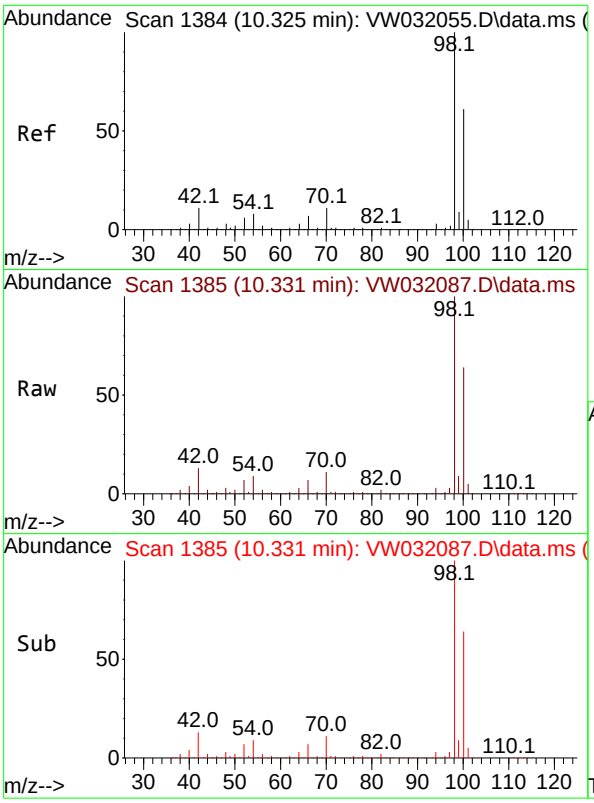


#35
Dibromofluoromethane
Concen: 56.609 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Tgt Ion:113 Resp: 112206

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.1	120.1
192	17.5	13.1	19.7



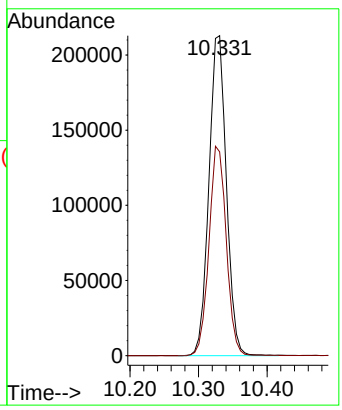


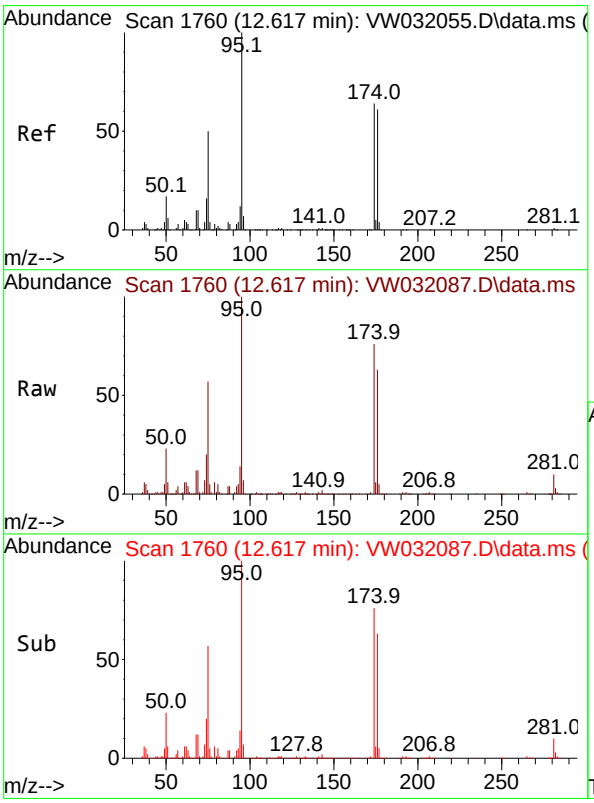
#50
Toluene-d8
Concen: 51.353 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Tgt Ion: 98 Resp: 376479

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.1	76.7

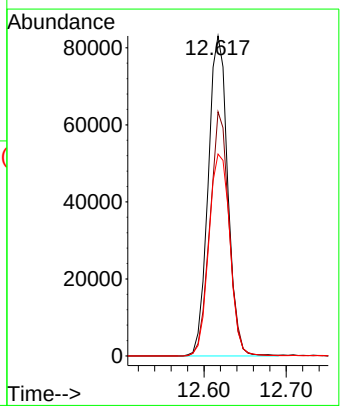


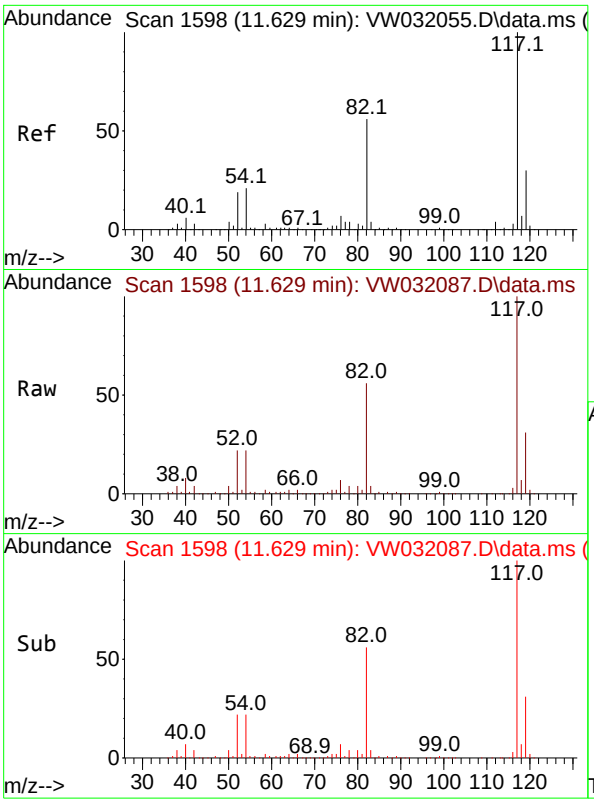


#62
4-Bromofluorobenzene
Concen: 50.707 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Tgt Ion: 95 Resp: 136994

Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	129.0
176	68.2	0.0	124.6



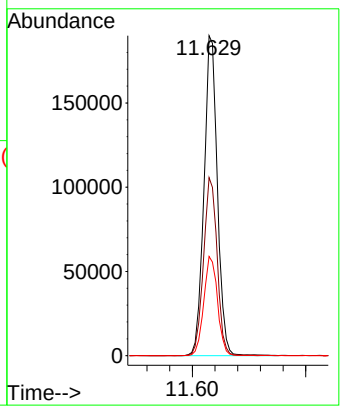


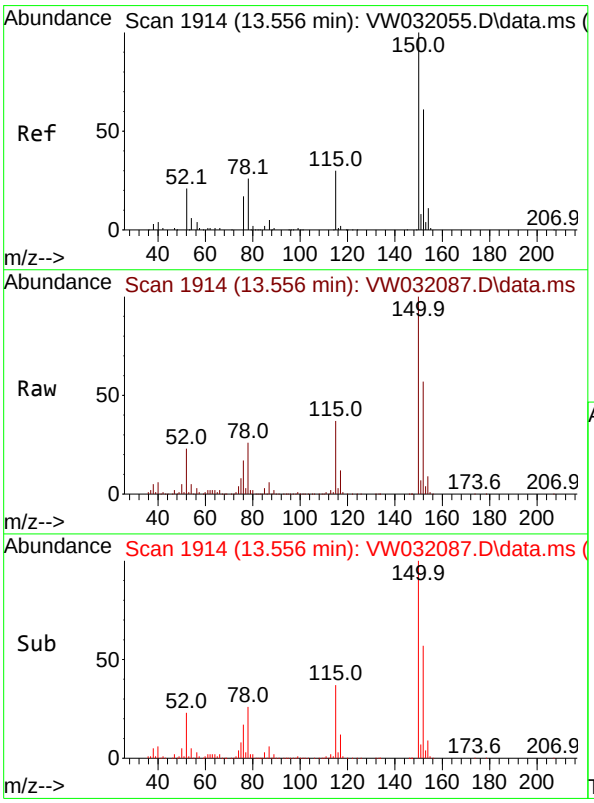
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Tgt Ion:117 Resp: 312208

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.0	67.4
119	31.0	24.2	36.4

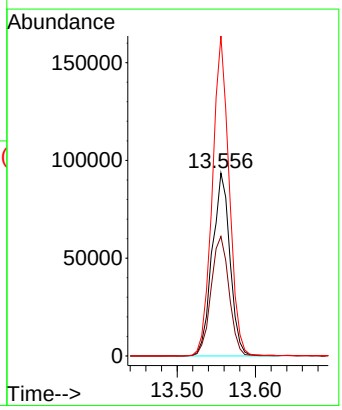




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032087.D
Acq: 14 Aug 2025 12:46

Tgt Ion:152 Resp: 147600

Ion	Ratio	Lower	Upper
152	100		
115	66.3	32.6	97.8
150	165.7	0.0	359.4



Sample Results: **VW032087.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032087.D
Acq On : 14 Aug 2025 12:46
Operator : SY/MD
Sample : Q2820-04
Misc : 7.80g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032087.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.966	489	505	514	rBV3	11211	51069	4.93%	0.864%
2	7.904	974	987	991	rBV2	160465	380120	36.68%	6.430%
3	7.965	991	997	1013	rVB2	218697	511296	49.33%	8.649%
4	8.319	1045	1055	1068	rBV	159358	357815	34.53%	6.053%
5	8.855	1133	1143	1161	rBV	375113	759792	73.31%	12.853%
6	10.325	1375	1384	1400	rBV	577215	1036382	100.00%	17.532%
7	11.629	1590	1598	1607	rBV	595673	1002730	96.75%	16.963%
8	12.617	1750	1760	1771	rBV2	446394	799346	77.13%	13.522%
9	13.556	1907	1914	1926	rVB	632662	1000062	96.50%	16.918%
10	14.062	1992	1997	2002	rBV	8065	12696	1.23%	0.215%

Sum of corrected areas: 5911308

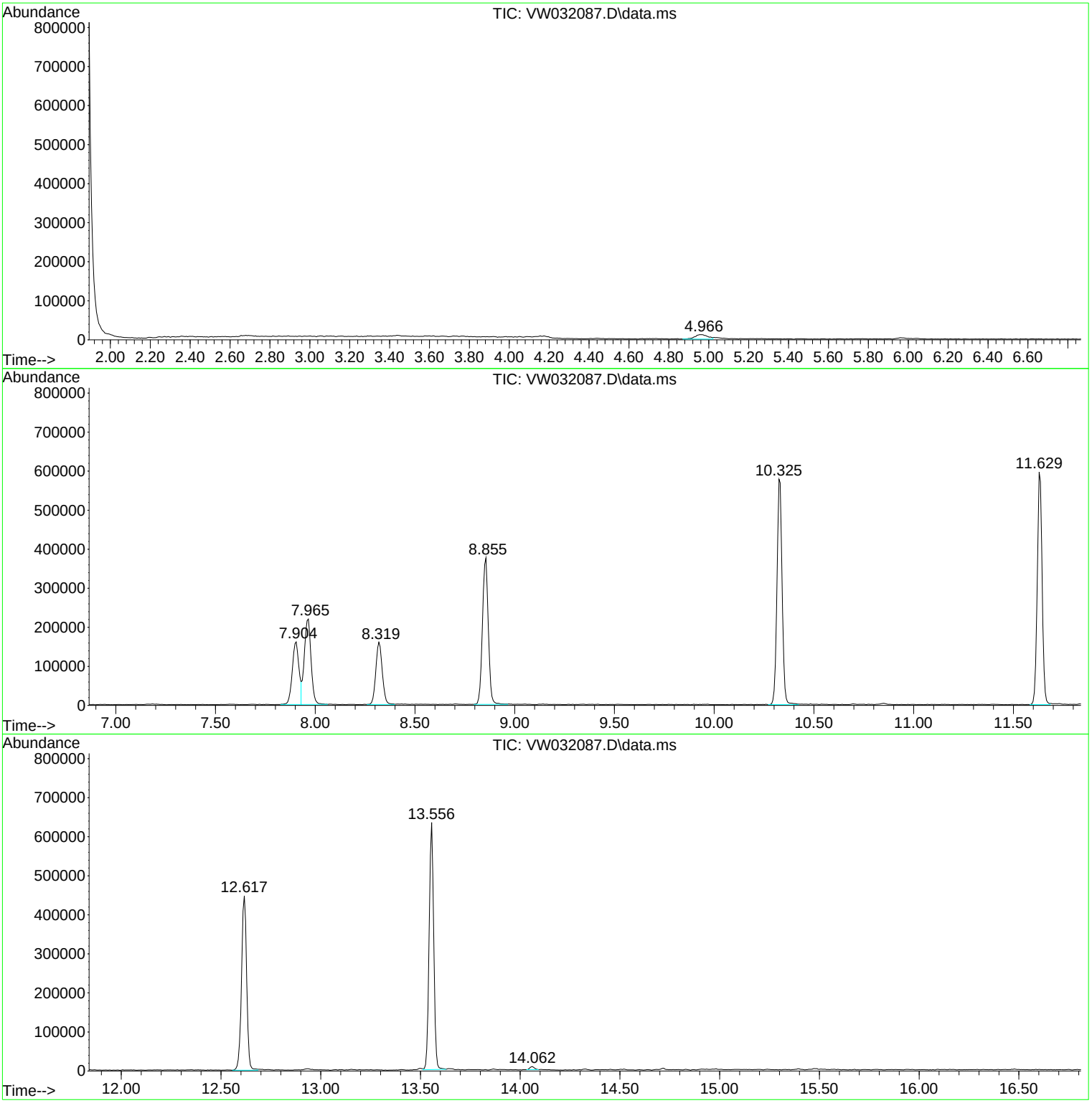
Sample Results: **VW032087.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032087.D
Acq On : 14 Aug 2025 12:46
Operator : SY/MD
Sample : Q2820-04
Misc : 7.80g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032087.D
Acq On : 14 Aug 2025 12:46
Operator : SY/MD
Sample : Q2820-04
Misc : 7.80g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032087.D
Acq On : 14 Aug 2025 12:46
Operator : SY/MD
Sample : Q2820-04
Misc : 7.80g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032088.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	48.8
Sample Wt/Vol:	4.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032088.D	1	08/14/25 13:09	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	8.30	U	2.40	8.30	10.4	ug/Kg
74-87-3	Chloromethane	5.20	U	2.40	5.20	10.4	ug/Kg
75-01-4	Vinyl Chloride	5.20	U	1.60	5.20	10.4	ug/Kg
74-83-9	Bromomethane	8.30	U	2.20	8.30	10.4	ug/Kg
75-00-3	Chloroethane	5.20	U	2.60	5.20	10.4	ug/Kg
75-69-4	Trichlorofluoromethane	8.30	U	2.50	8.30	10.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.20	U	2.20	5.20	10.4	ug/Kg
75-35-4	1,1-Dichloroethene	5.20	U	2.10	5.20	10.4	ug/Kg
67-64-1	Acetone	190		9.90	41.6	52.0	ug/Kg
75-15-0	Carbon Disulfide	8.30	U	2.20	8.30	10.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.20	U	1.50	5.20	10.4	ug/Kg
79-20-9	Methyl Acetate	8.30	U	3.20	8.30	10.4	ug/Kg
75-09-2	Methylene Chloride	11.0	J	7.30	16.6	20.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.20	U	1.80	5.20	10.4	ug/Kg
75-34-3	1,1-Dichloroethane	5.20	U	1.70	5.20	10.4	ug/Kg
110-82-7	Cyclohexane	5.20	U	1.60	5.20	10.4	ug/Kg
78-93-3	2-Butanone	36.3	J	13.6	41.6	52.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.20	U	2.00	5.20	10.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.20	U	1.60	5.20	10.4	ug/Kg
74-97-5	Bromochloromethane	8.30	U	2.40	8.30	10.4	ug/Kg
67-66-3	Chloroform	8.30	U	1.70	8.30	10.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.20	U	1.90	5.20	10.4	ug/Kg
108-87-2	Methylcyclohexane	5.20	U	1.90	5.20	10.4	ug/Kg
71-43-2	Benzene	5.20	U	1.60	5.20	10.4	ug/Kg
107-06-2	1,2-Dichloroethane	5.20	U	1.60	5.20	10.4	ug/Kg
79-01-6	Trichloroethene	5.20	U	1.70	5.20	10.4	ug/Kg
78-87-5	1,2-Dichloropropane	5.20	U	1.90	5.20	10.4	ug/Kg
75-27-4	Bromodichloromethane	5.20	U	1.60	5.20	10.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	26.0	U	7.40	26.0	52.0	ug/Kg
108-88-3	Toluene	5.20	U	1.60	5.20	10.4	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	48.8
Sample Wt/Vol:	4.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032088.D	1	08/14/25 13:09	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	5.20	U	1.40	5.20	10.4	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.20	U	1.30	5.20	10.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.20	U	1.90	5.20	10.4	ug/Kg
591-78-6	2-Hexanone	26.0	U	7.70	26.0	52.0	ug/Kg
124-48-1	Dibromochloromethane	5.20	U	1.80	5.20	10.4	ug/Kg
106-93-4	1,2-Dibromoethane	5.20	U	1.80	5.20	10.4	ug/Kg
127-18-4	Tetrachloroethene	5.20	U	2.20	5.20	10.4	ug/Kg
108-90-7	Chlorobenzene	5.20	U	1.90	5.20	10.4	ug/Kg
100-41-4	Ethyl Benzene	5.20	U	1.40	5.20	10.4	ug/Kg
179601-23-1	m/p-Xylenes	10.4	U	2.60	10.4	20.8	ug/Kg
95-47-6	o-Xylene	5.20	U	1.70	5.20	10.4	ug/Kg
100-42-5	Styrene	5.20	U	1.50	5.20	10.4	ug/Kg
75-25-2	Bromoform	5.20	U	1.80	5.20	10.4	ug/Kg
98-82-8	Isopropylbenzene	5.20	U	1.60	5.20	10.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.20	U	2.50	5.20	10.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.20	U	3.60	5.20	10.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.20	U	3.20	5.20	10.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.20	U	3.00	5.20	10.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	8.30	U	3.80	8.30	10.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	8.30	U	6.20	8.30	10.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	8.30	U	6.60	8.30	10.4	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.5		71 - 136		119%	SPK: 50
1868-53-7	Dibromofluoromethane	56.2		78 - 119		112%	SPK: 50
2037-26-5	Toluene-d8	50.2		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		79 - 119		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	143000	7.965				
540-36-3	1,4-Difluorobenzene	288000	8.855				
3114-55-4	Chlorobenzene-d5	280000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.556				

Raw Data: **VW032088.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	48.8
Sample Wt/Vol:	4.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032088.D	1	08/14/25 13:09	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032088.D
Acq On : 14 Aug 2025 13:09
Operator : SY/MD
Sample : Q2820-05
Misc : 4.93g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Quant Time: Aug 18 03:51:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

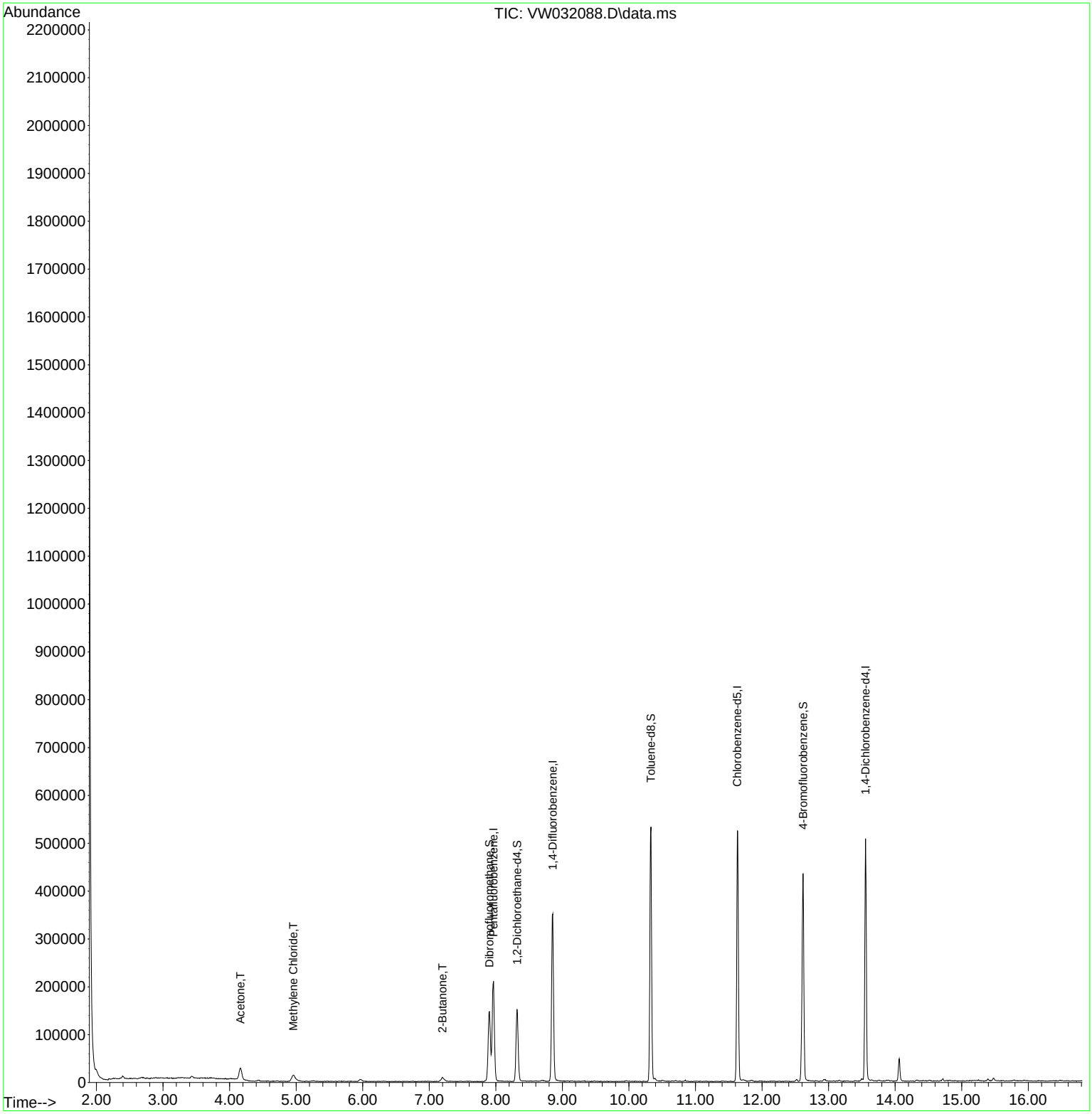
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	142915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	288167	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	279890	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	126154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	123019	59.517	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 119.040%			
35) Dibromofluoromethane	7.904	113	104709	56.245	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 112.480%			
50) Toluene-d8	10.331	98	345691	50.204	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.400%			
62) 4-Bromofluorobenzene	12.617	95	119774	47.202	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 94.400%			
Target Compounds						Qvalue
16) Acetone	4.161	43	43607	91.123	ug/l	90
20) Methylene Chloride	4.960	84	11745	5.308	ug/l	94
25) 2-Butanone	7.197	43	11866	17.446	ug/l	92

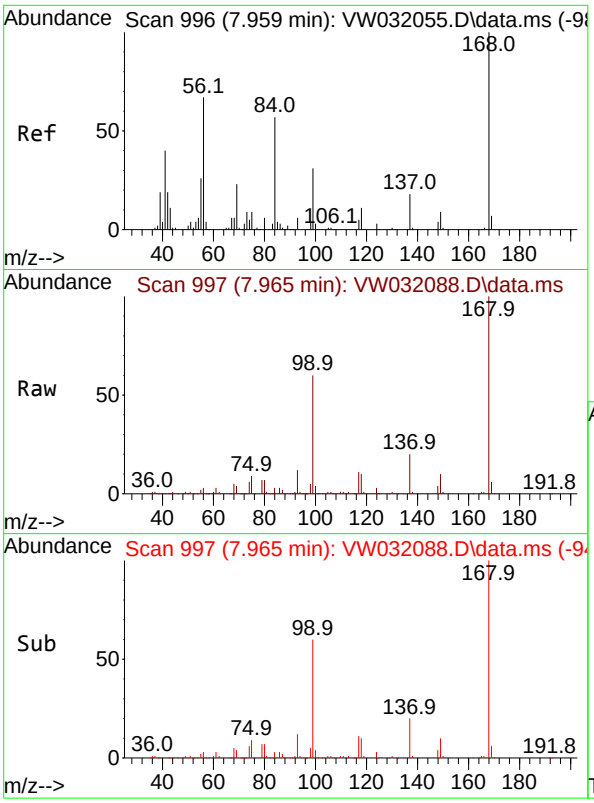
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032088.D
Acq On : 14 Aug 2025 13:09
Operator : SY/MD
Sample : Q2820-05
Misc : 4.93g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Quant Time: Aug 18 03:51:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



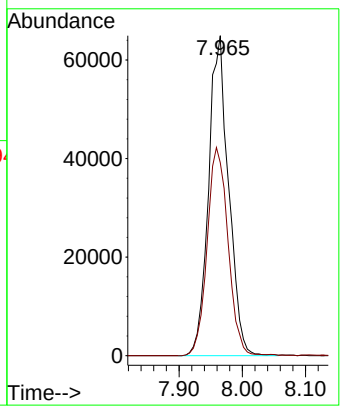


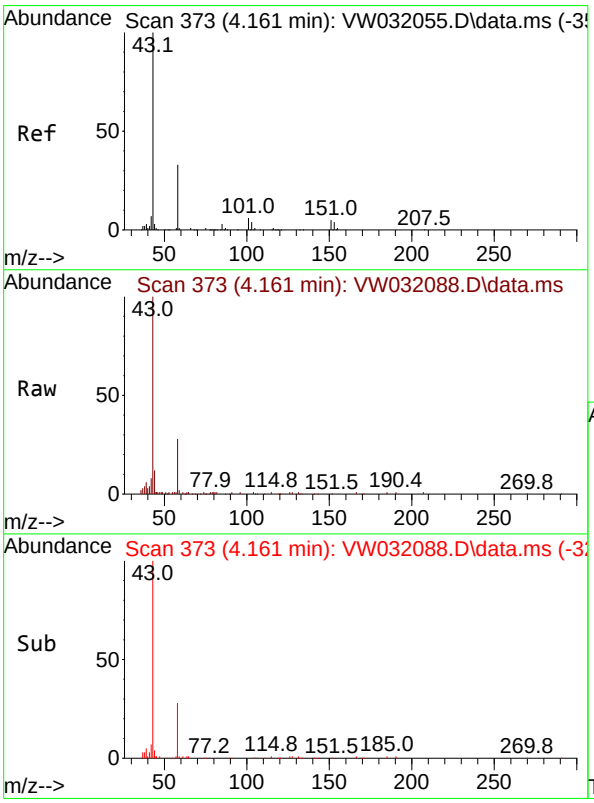
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Tgt Ion:168 Resp: 142915

Ion	Ratio	Lower	Upper
168	100		
99	60.3	56.0	84.0

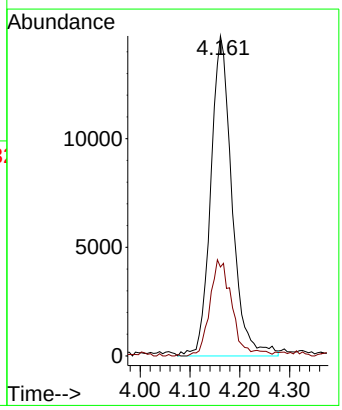


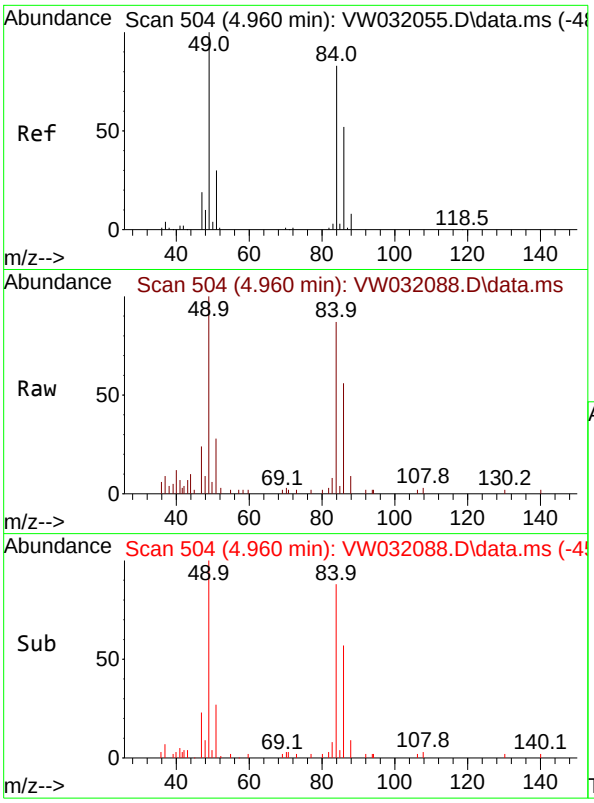


#16
Acetone
Concen: 91.123 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 43 Resp: 43607

Ion	Ratio	Lower	Upper
43	100		
58	27.4	26.6	39.8



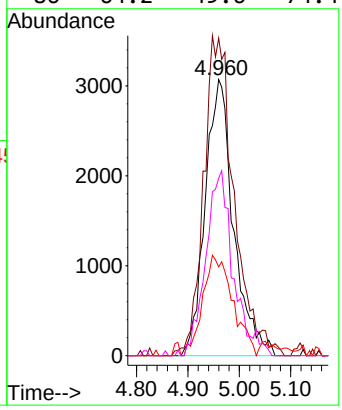


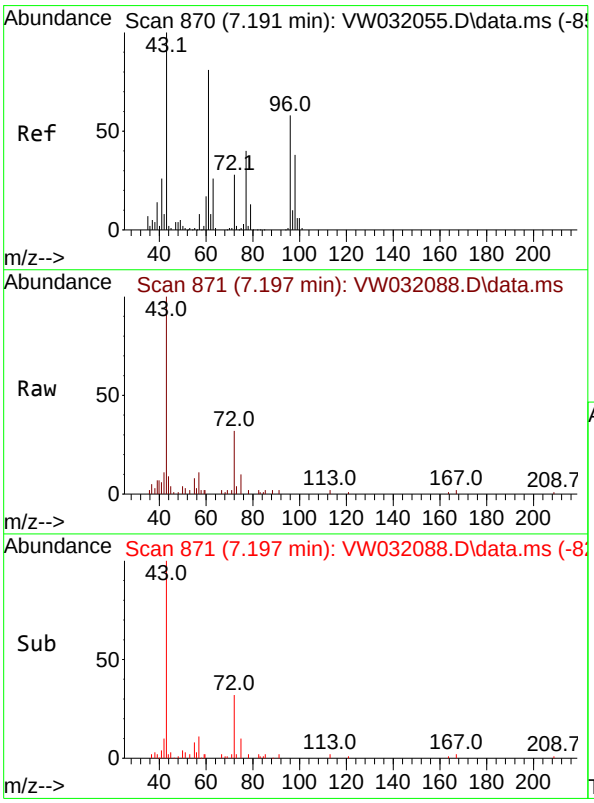
#20
Methylene Chloride
Concen: 5.308 ug/l
RT: 4.960 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Tgt Ion: 84 Resp: 11745

Ion	Ratio	Lower	Upper
84	100		
49	113.1	95.9	143.9
51	29.7	28.6	43.0
86	64.2	49.6	74.4

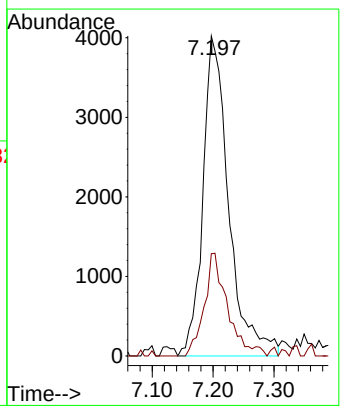


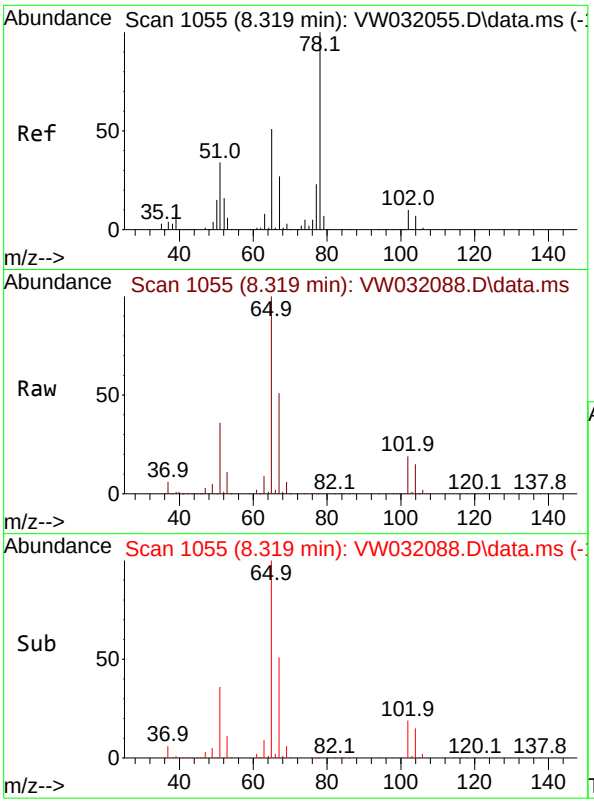


#25
2-Butanone
Concen: 17.446 ug/l
RT: 7.197 min Scan# 871
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 43 Resp: 11866

Ion	Ratio	Lower	Upper
43	100		
72	31.9	22.3	33.5



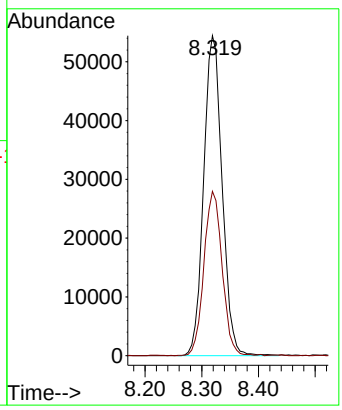


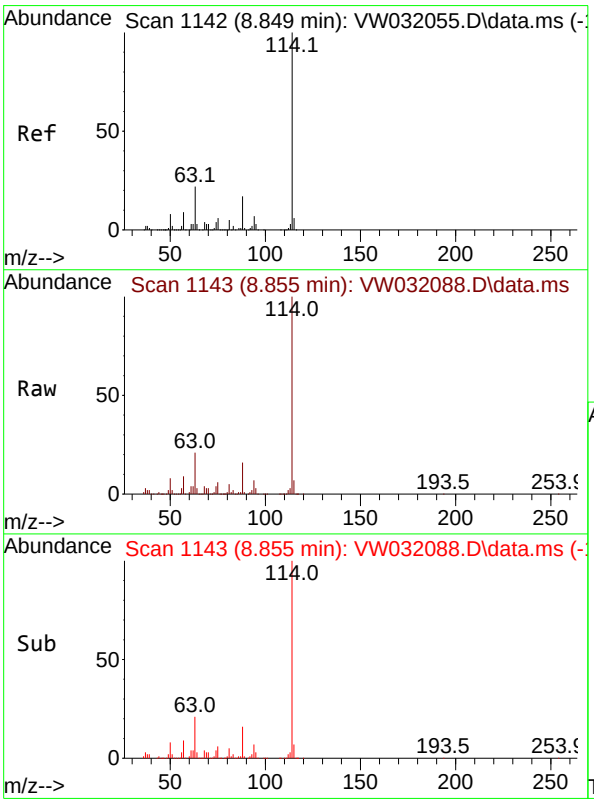
#33
1,2-Dichloroethane-d4
Concen: 59.517 ug/l
RT: 8.319 min Scan# 10
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Tgt Ion: 65 Resp: 123019

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	102.4

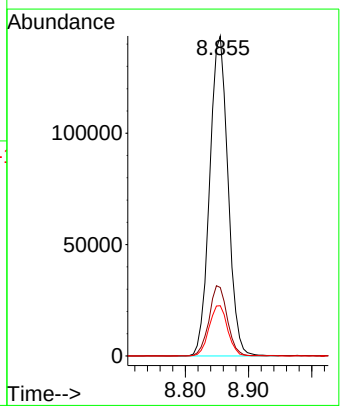


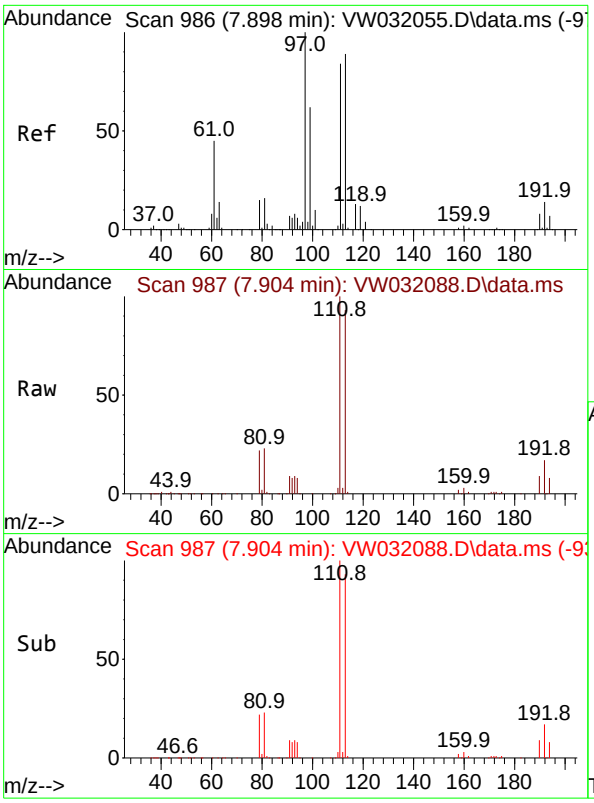


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion:114 Resp: 288167

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	15.7	0.0	33.8



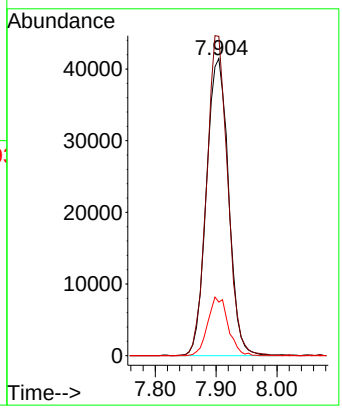


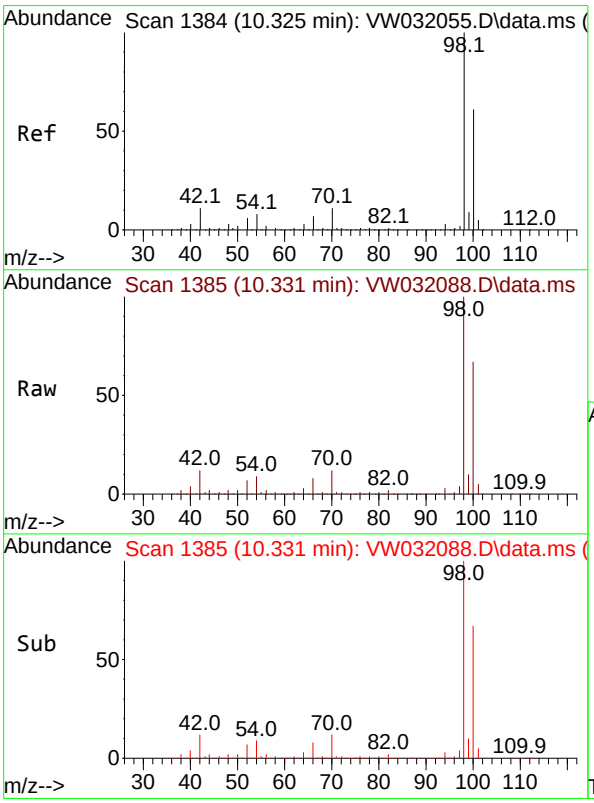
#35
Dibromofluoromethane
Concen: 56.245 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Tgt Ion:113 Resp: 104709

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.1	120.1
192	18.2	13.1	19.7

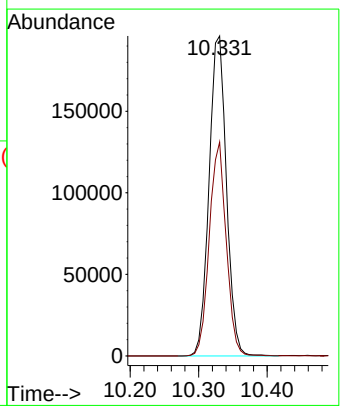


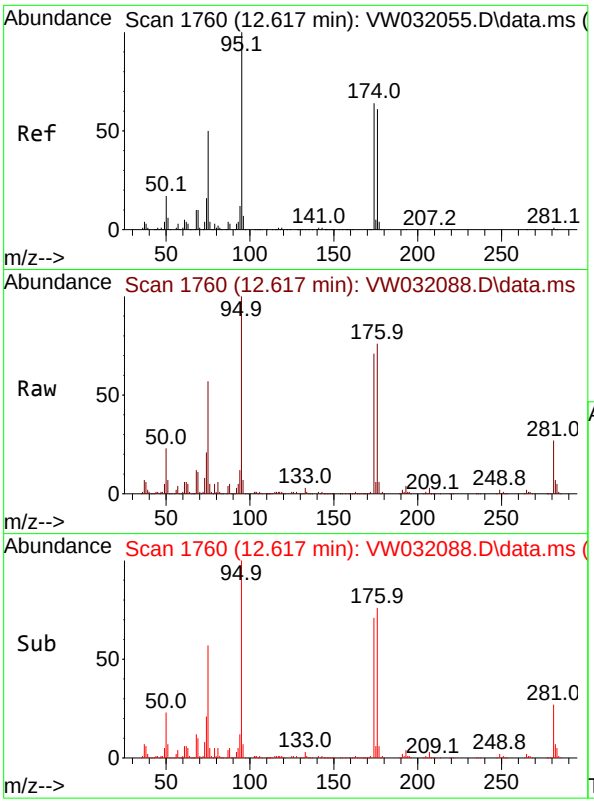


#50
Toluene-d8
Concen: 50.204 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 98 Resp: 345691

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.1	76.7



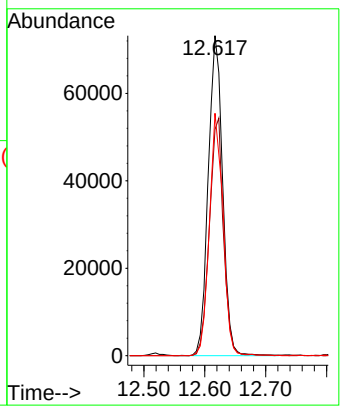


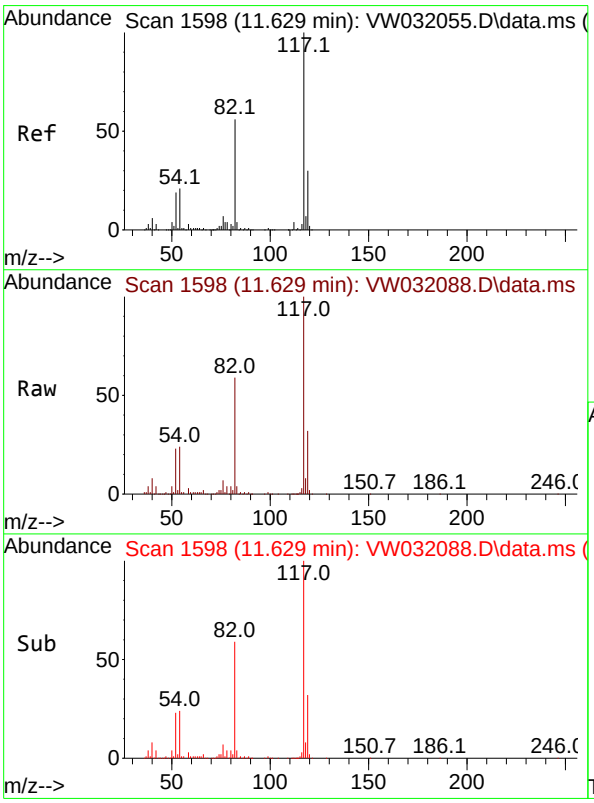
#62
4-Bromofluorobenzene
Concen: 47.202 ug/l
RT: 12.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Tgt Ion: 95 Resp: 119774

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	129.0
176	72.3	0.0	124.6

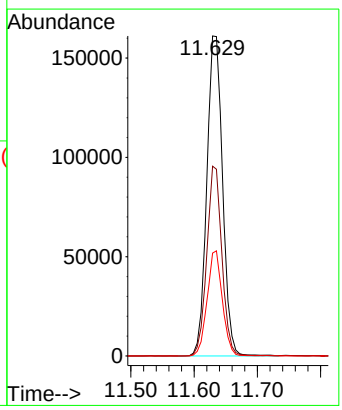


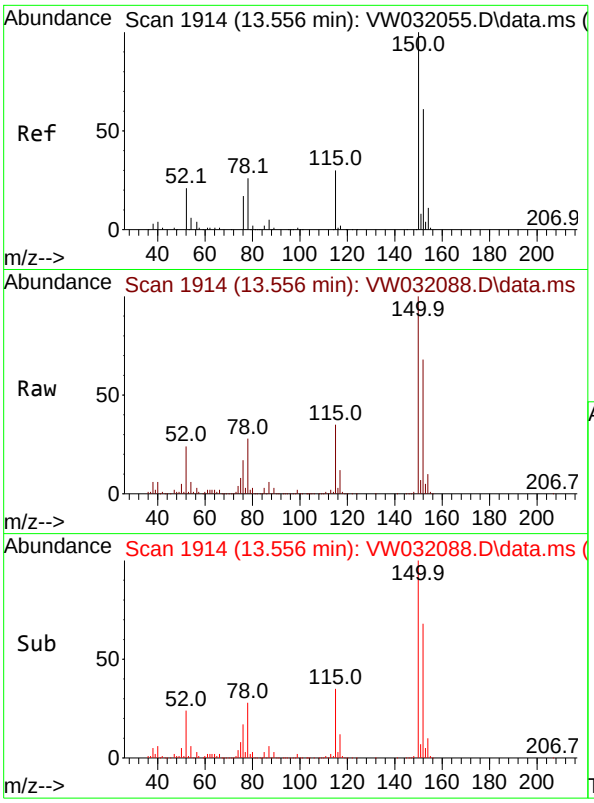


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion:117 Resp: 279890

Ion	Ratio	Lower	Upper
117	100		
82	59.3	45.0	67.4
119	32.1	24.2	36.4



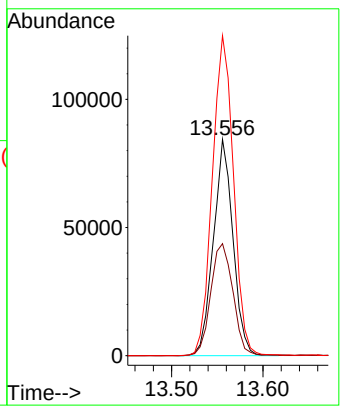


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Tgt Ion:152 Resp: 126154

Ion	Ratio	Lower	Upper
152	100		
115	58.5	32.6	97.8
150	159.2	0.0	359.4



Sample Results: **VW032088.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032088.D
Acq On : 14 Aug 2025 13:09
Operator : SY/MD
Sample : Q2820-05
Misc : 4.93g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-E

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032088.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	364	374	383	rVB2	24634	75995	8.01%	1.350%
2	4.960	493	504	517	rBV3	13087	53884	5.68%	0.957%
3	7.197	861	871	881	rBV2	8524	27594	2.91%	0.490%
4	7.904	972	987	991	rBV	146418	362387	38.19%	6.436%
5	7.965	991	997	1008	rVB2	208722	483092	50.91%	8.579%
6	8.319	1045	1055	1068	rBV2	151141	343223	36.17%	6.095%
7	8.855	1133	1143	1152	rBV	349747	716327	75.48%	12.721%
8	10.331	1375	1385	1392	rBV	532185	948997	100.00%	16.853%
9	11.629	1588	1598	1608	rBV	524037	908941	95.78%	16.142%
10	12.617	1749	1760	1772	rBV2	434652	822994	86.72%	14.616%
11	13.556	1908	1914	1925	rVB	505415	810024	85.36%	14.385%
12	14.062	1991	1997	2005	rVB	46301	77475	8.16%	1.376%

Sum of corrected areas: 5630933

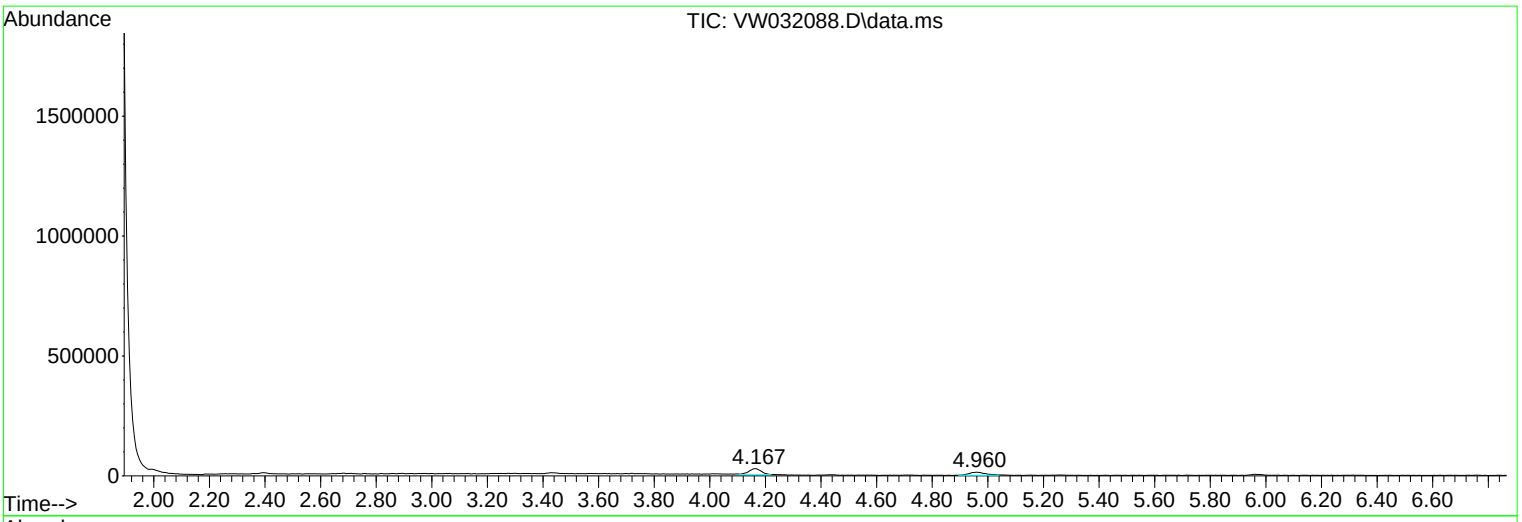
Sample Results: **VW032088.D**

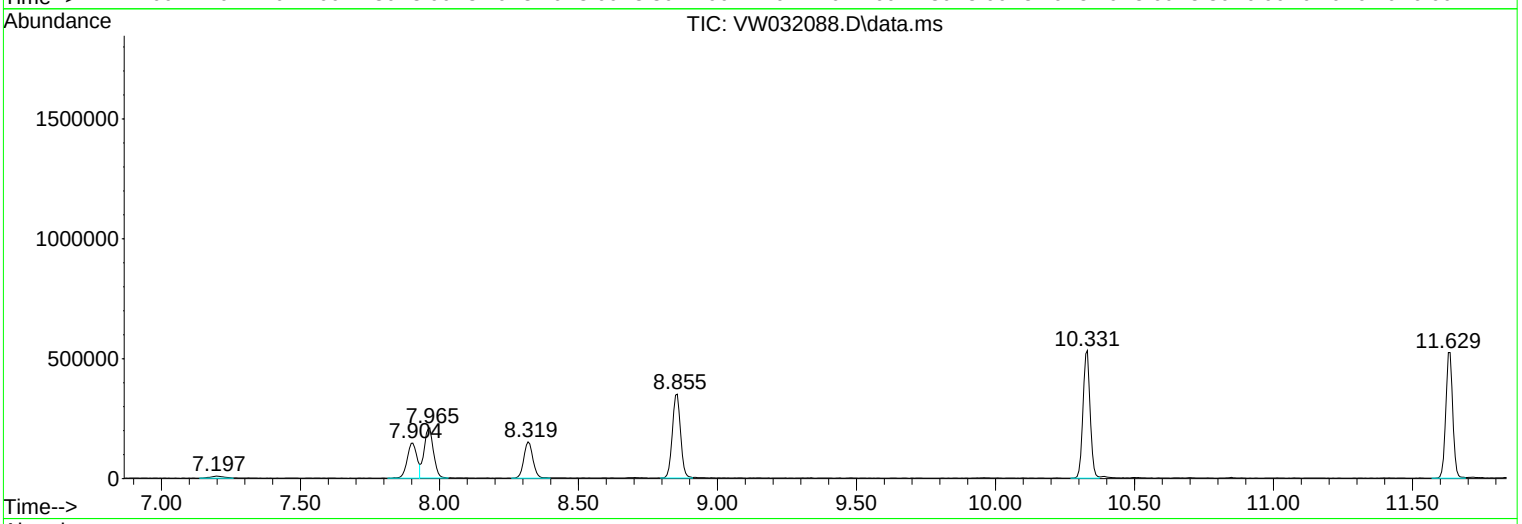
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032088.D
Acq On : 14 Aug 2025 13:09
Operator : SY/MD
Sample : Q2820-05
Misc : 4.93g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

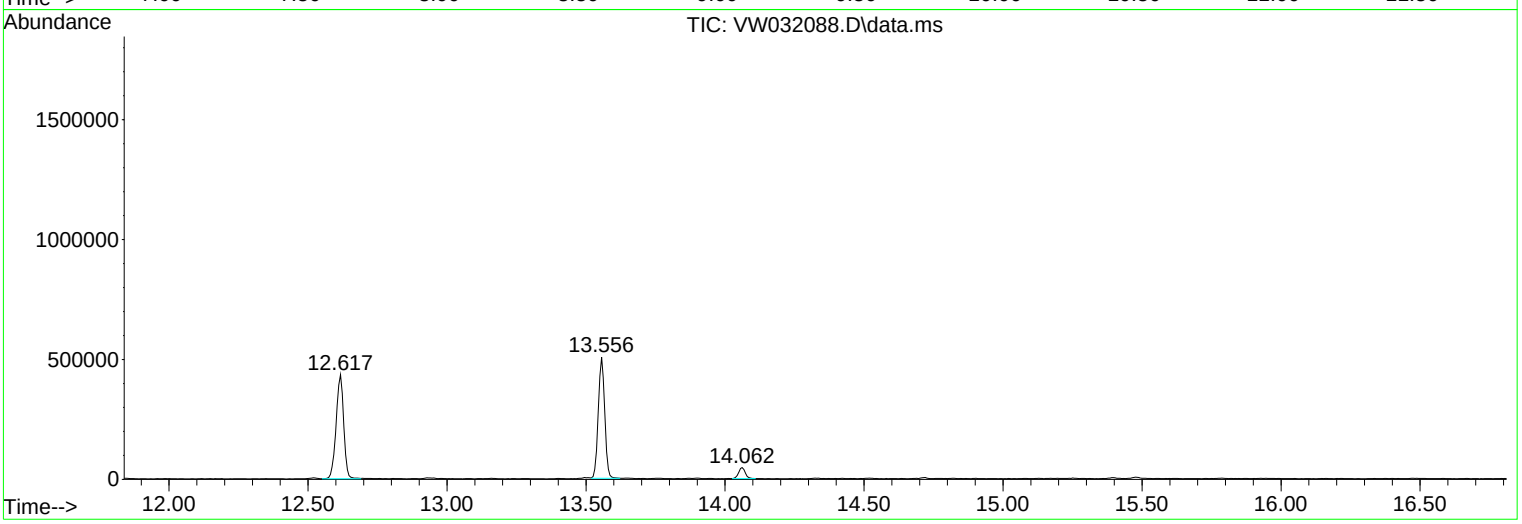
Instrument :
MSVOA_W
ClientSampleId :
518R-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032088.D
Acq On : 14 Aug 2025 13:09
Operator : SY/MD
Sample : Q2820-05
Misc : 4.93g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032088.D
Acq On : 14 Aug 2025 13:09
Operator : SY/MD
Sample : Q2820-05
Misc : 4.93g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.4
Sample Wt/Vol:	3.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032089.D	1	08/14/25 13:31	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	7.40	U	2.10	7.40	9.30	ug/Kg
74-87-3	Chloromethane	4.60	U	2.10	4.60	9.30	ug/Kg
75-01-4	Vinyl Chloride	4.60	U	1.50	4.60	9.30	ug/Kg
74-83-9	Bromomethane	7.40	U	2.00	7.40	9.30	ug/Kg
75-00-3	Chloroethane	4.60	U	2.30	4.60	9.30	ug/Kg
75-69-4	Trichlorofluoromethane	7.40	U	2.20	7.40	9.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.60	U	2.00	4.60	9.30	ug/Kg
75-35-4	1,1-Dichloroethene	4.60	U	1.90	4.60	9.30	ug/Kg
67-64-1	Acetone	180		8.80	37.1	46.4	ug/Kg
75-15-0	Carbon Disulfide	35.5		2.00	7.40	9.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	4.60	U	1.40	4.60	9.30	ug/Kg
79-20-9	Methyl Acetate	7.40	U	2.90	7.40	9.30	ug/Kg
75-09-2	Methylene Chloride	14.9	U	6.60	14.9	18.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.60	U	1.60	4.60	9.30	ug/Kg
75-34-3	1,1-Dichloroethane	4.60	U	1.50	4.60	9.30	ug/Kg
110-82-7	Cyclohexane	4.60	U	1.50	4.60	9.30	ug/Kg
78-93-3	2-Butanone	37.1	U	12.1	37.1	46.4	ug/Kg
56-23-5	Carbon Tetrachloride	4.60	U	1.80	4.60	9.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	4.60	U	1.40	4.60	9.30	ug/Kg
74-97-5	Bromochloromethane	7.40	U	2.10	7.40	9.30	ug/Kg
67-66-3	Chloroform	7.40	U	1.60	7.40	9.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.60	U	1.70	4.60	9.30	ug/Kg
108-87-2	Methylcyclohexane	4.60	U	1.70	4.60	9.30	ug/Kg
71-43-2	Benzene	4.60	U	1.50	4.60	9.30	ug/Kg
107-06-2	1,2-Dichloroethane	4.60	U	1.50	4.60	9.30	ug/Kg
79-01-6	Trichloroethene	4.60	U	1.50	4.60	9.30	ug/Kg
78-87-5	1,2-Dichloropropane	4.60	U	1.70	4.60	9.30	ug/Kg
75-27-4	Bromodichloromethane	4.60	U	1.40	4.60	9.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	23.2	U	6.60	23.2	46.4	ug/Kg
108-88-3	Toluene	4.60	U	1.40	4.60	9.30	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.4
Sample Wt/Vol:	3.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032089.D	1	08/14/25 13:31	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	4.60	U	1.20	4.60	9.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.60	U	1.20	4.60	9.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	4.60	U	1.70	4.60	9.30	ug/Kg
591-78-6	2-Hexanone	23.2	U	6.80	23.2	46.4	ug/Kg
124-48-1	Dibromochloromethane	4.60	U	1.60	4.60	9.30	ug/Kg
106-93-4	1,2-Dibromoethane	4.60	U	1.60	4.60	9.30	ug/Kg
127-18-4	Tetrachloroethene	4.60	U	1.90	4.60	9.30	ug/Kg
108-90-7	Chlorobenzene	4.60	U	1.70	4.60	9.30	ug/Kg
100-41-4	Ethyl Benzene	4.60	U	1.20	4.60	9.30	ug/Kg
179601-23-1	m/p-Xylenes	9.30	U	2.30	9.30	18.6	ug/Kg
95-47-6	o-Xylene	4.60	U	1.50	4.60	9.30	ug/Kg
100-42-5	Styrene	4.60	U	1.30	4.60	9.30	ug/Kg
75-25-2	Bromoform	4.60	U	1.60	4.60	9.30	ug/Kg
98-82-8	Isopropylbenzene	4.60	U	1.40	4.60	9.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4.60	U	2.20	4.60	9.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.60	U	3.20	4.60	9.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.60	U	2.90	4.60	9.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	4.60	U	2.70	4.60	9.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.40	U	3.40	7.40	9.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	7.40	U	5.50	7.40	9.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	7.40	U	5.90	7.40	9.30	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.5		71 - 136		109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.0		79 - 119		82%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	136000	7.965				
540-36-3	1,4-Difluorobenzene	268000	8.849				
3114-55-4	Chlorobenzene-d5	244000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	97100	13.556				

Raw Data: **VW032089.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.4
Sample Wt/Vol:	3.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032089.D	1	08/14/25 13:31	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032089.D
Acq On : 14 Aug 2025 13:31
Operator : SY/MD
Sample : Q2820-06
Misc : 3.48g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Quant Time: Aug 18 03:51:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

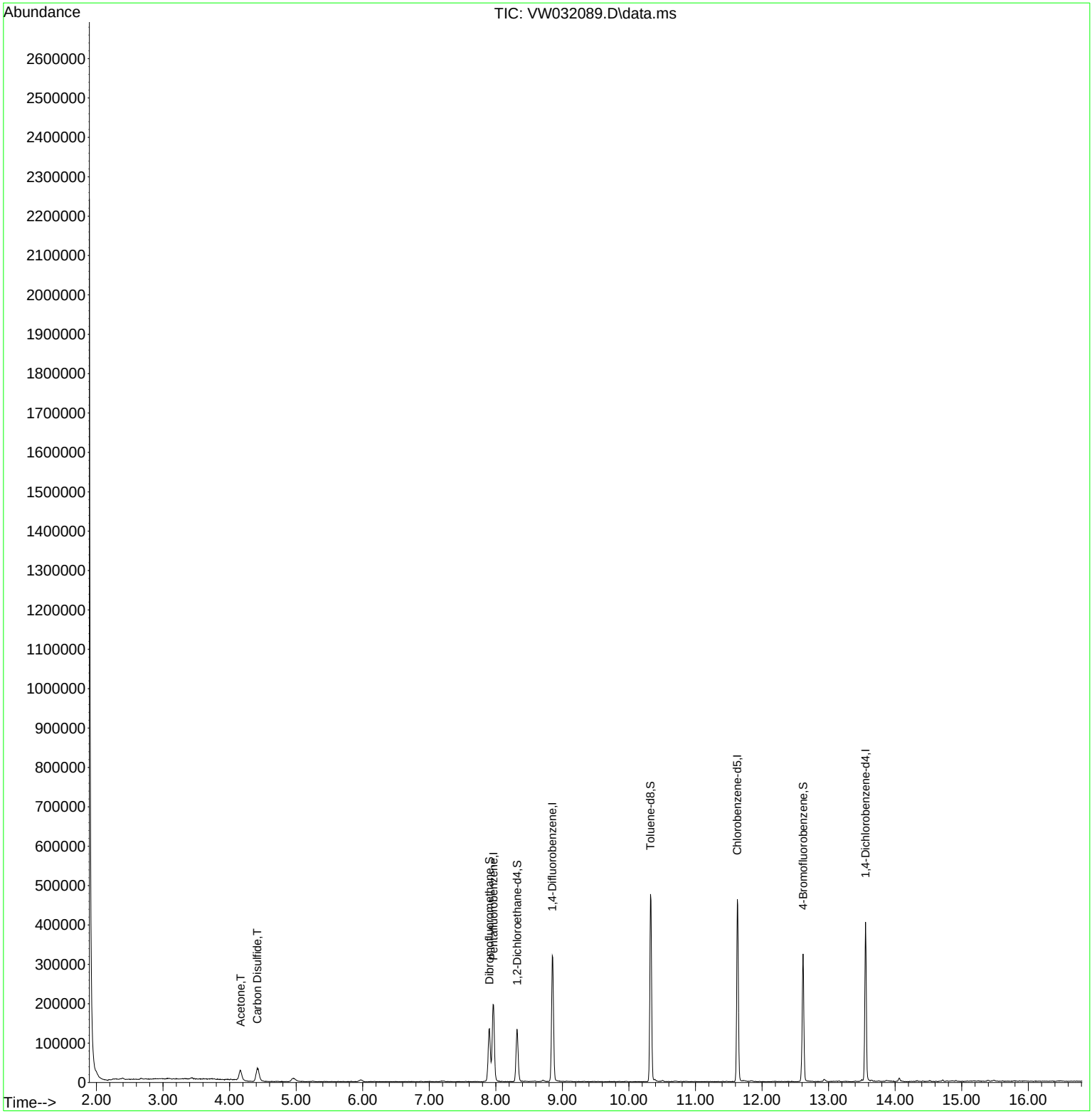
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	136247	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	267749	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	243648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	97060	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	107314	54.460	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 108.920%			
35) Dibromofluoromethane	7.904	113	94768	54.787	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 109.580%			
50) Toluene-d8	10.324	98	309363	48.354	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 96.700%			
62) 4-Bromofluorobenzene	12.617	95	96648	40.992	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 81.980%			
Target Compounds						Qvalue
16) Acetone	4.167	43	44326	97.158	ug/l	91
17) Carbon Disulfide	4.417	76	84838	19.129	ug/l #	92

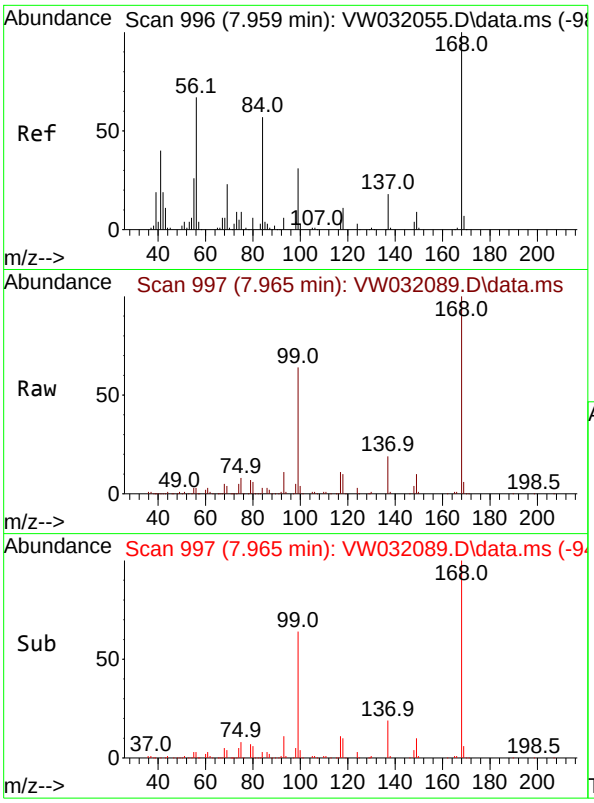
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032089.D
Acq On : 14 Aug 2025 13:31
Operator : SY/MD
Sample : Q2820-06
Misc : 3.48g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Quant Time: Aug 18 03:51:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



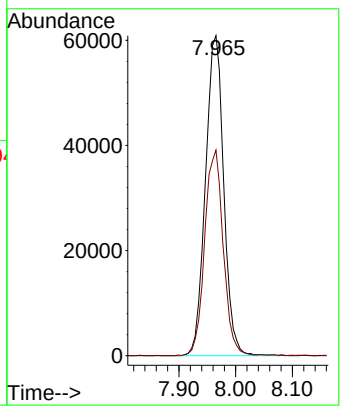


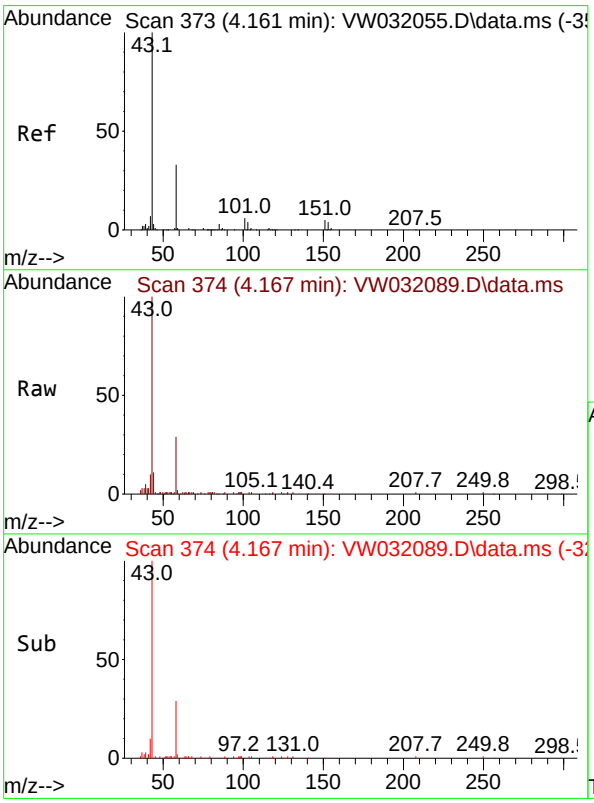
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Tgt Ion:168 Resp: 136247

Ion	Ratio	Lower	Upper
168	100		
99	64.1	56.0	84.0

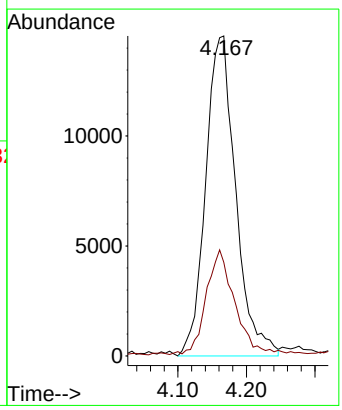


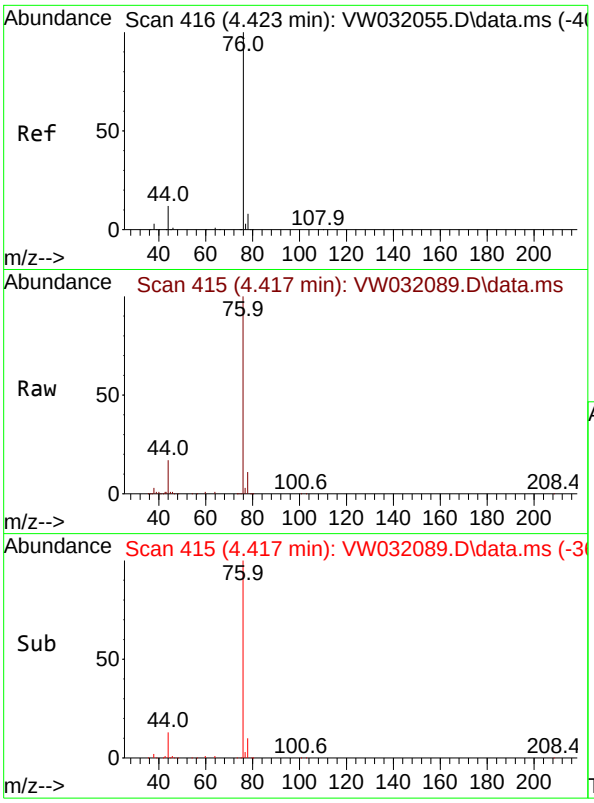


#16
Acetone
Concen: 97.158 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Tgt Ion: 43 Resp: 44326

Ion	Ratio	Lower	Upper
43	100		
58	27.9	26.6	39.8



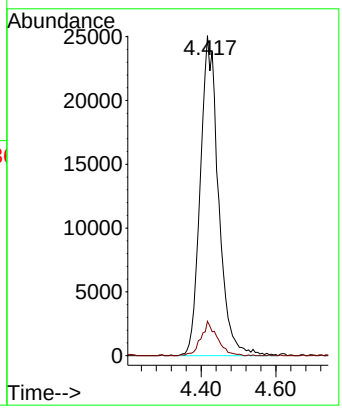


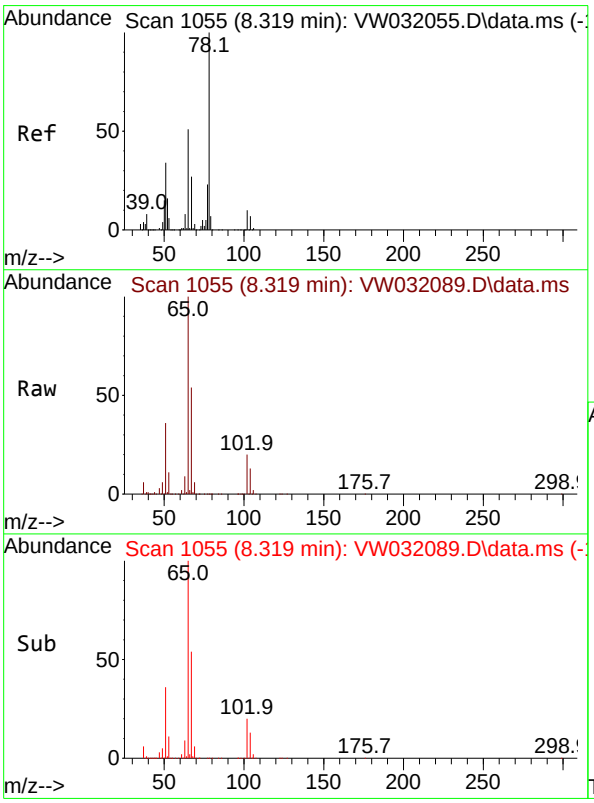
#17
Carbon Disulfide
Concen: 19.129 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Tgt Ion: 76 Resp: 84838

Ion	Ratio	Lower	Upper
76	100		
78	10.7	6.4	9.6#

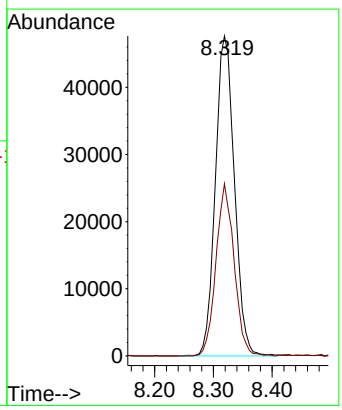


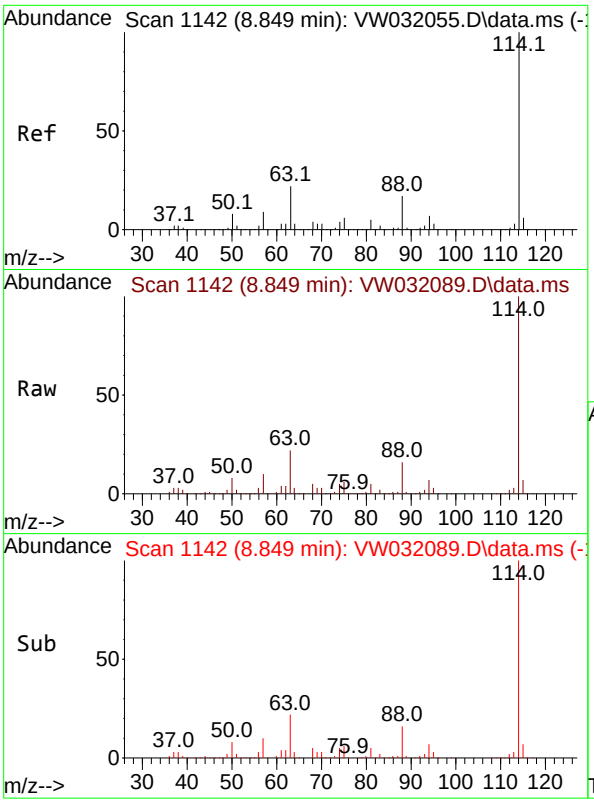


#33
1,2-Dichloroethane-d4
Concen: 54.460 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Tgt Ion: 65 Resp: 107314

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	102.4



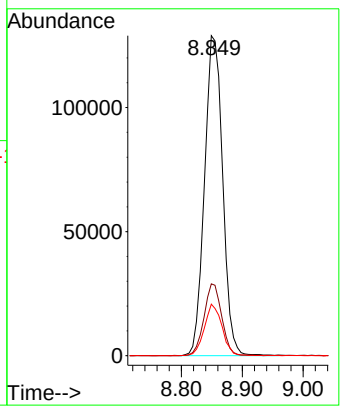


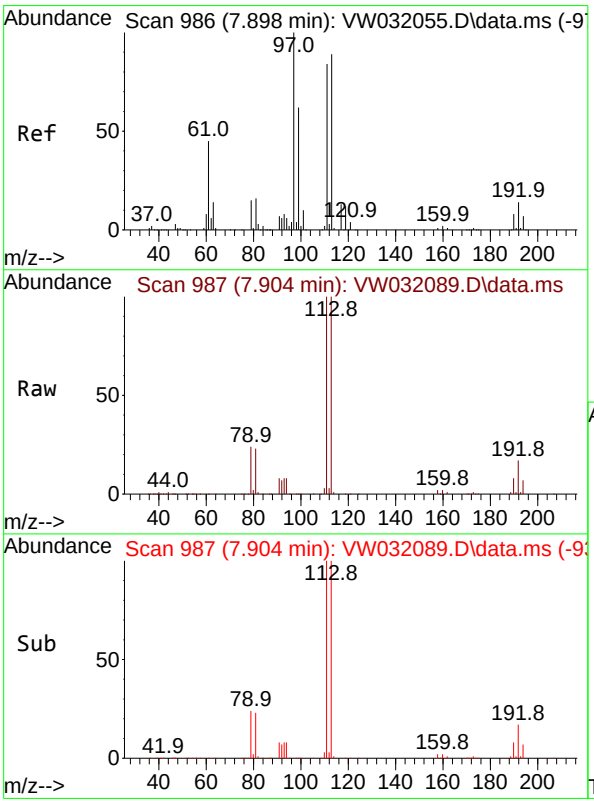
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Tgt Ion:114 Resp: 267749

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	43.0
88	16.1	0.0	33.8

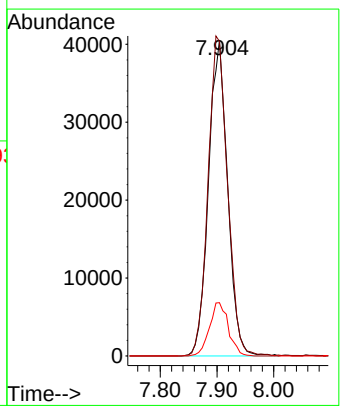


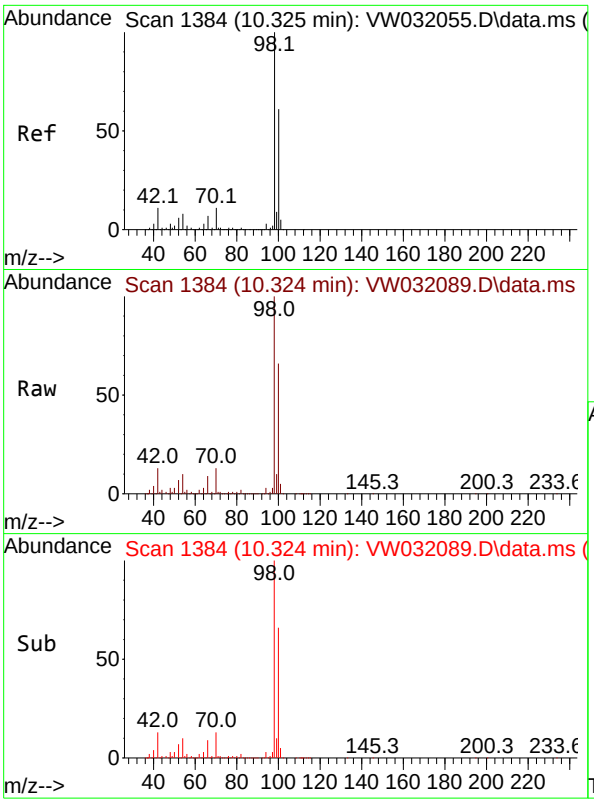


#35
Dibromofluoromethane
Concen: 54.787 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Tgt Ion:113 Resp: 94768

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.1	120.1
192	16.8	13.1	19.7



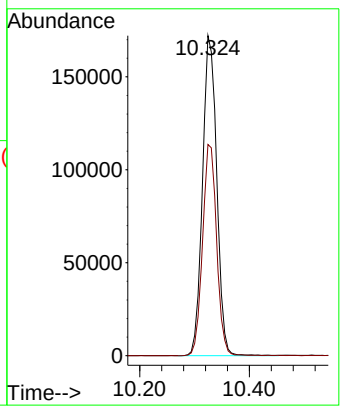


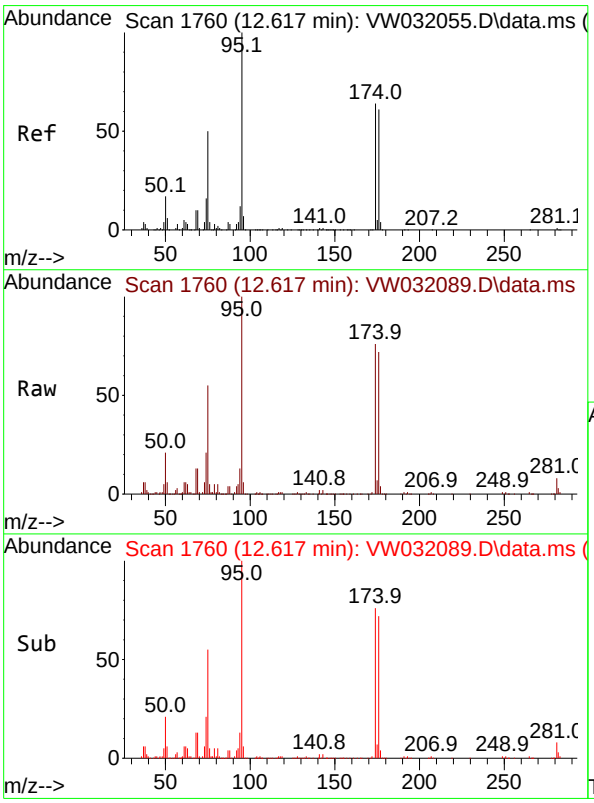
#50
Toluene-d8
Concen: 48.354 ug/l
RT: 10.324 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Tgt Ion: 98 Resp: 309363

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.1	76.7

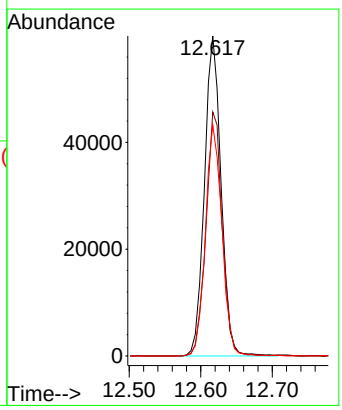


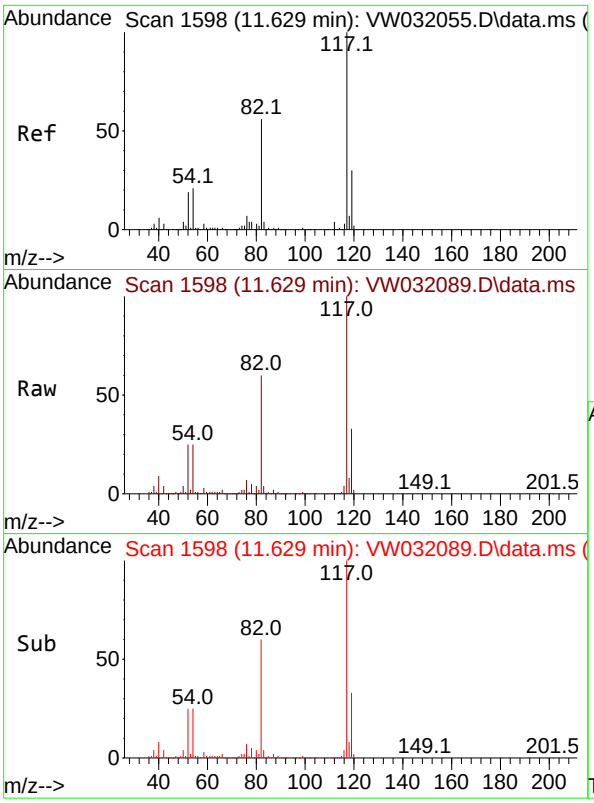


#62
4-Bromofluorobenzene
Concen: 40.992 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Tgt Ion: 95 Resp: 96648

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	129.0
176	71.9	0.0	124.6



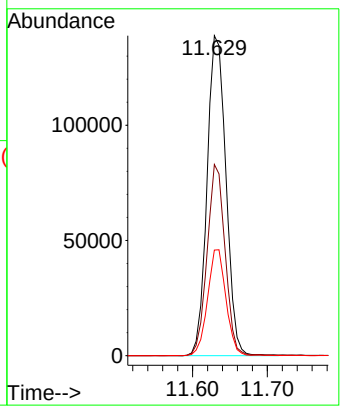


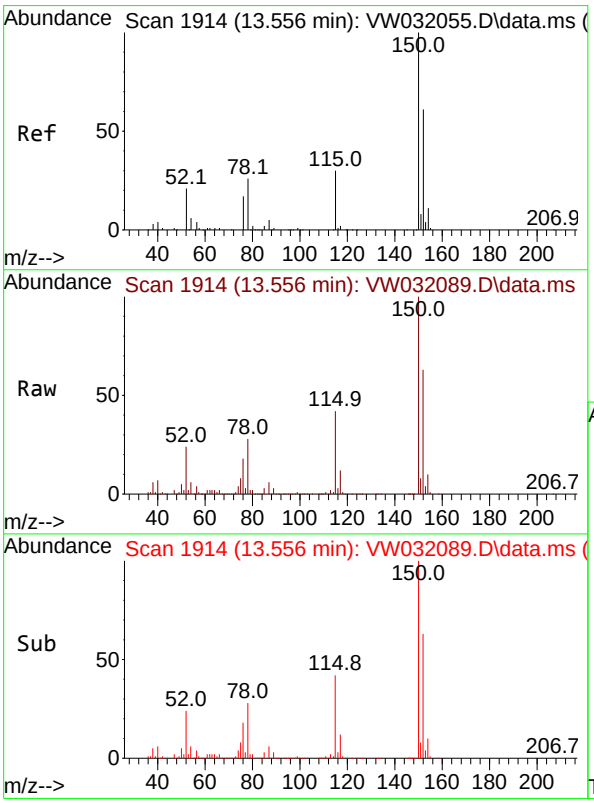
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Tgt Ion:117 Resp: 243648

Ion	Ratio	Lower	Upper
117	100		
82	59.7	45.0	67.4
119	33.0	24.2	36.4

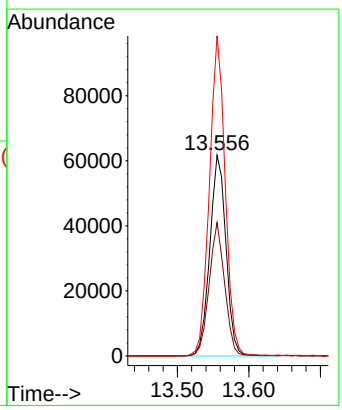




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032089.D
Acq: 14 Aug 2025 13:31

Tgt Ion:152 Resp: 97060

Ion	Ratio	Lower	Upper
152	100		
115	63.9	32.6	97.8
150	155.7	0.0	359.4



Sample Results: **VW032089.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032089.D
Acq On : 14 Aug 2025 13:31
Operator : SY/MD
Sample : Q2820-06
Misc : 3.48g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-N

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032089.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	364	373	387	rVB	27480	88963	10.33%	1.838%
2	4.417	403	415	434	rVB2	34298	117597	13.66%	2.430%
3	4.960	492	504	505	rBV5	8934	22986	2.67%	0.475%
4	7.904	971	987	991	rBV	135094	327658	38.06%	6.771%
5	7.959	991	996	1008	rVB	195327	452566	52.56%	9.352%
6	8.319	1046	1055	1065	rBV	132909	293005	34.03%	6.055%
7	8.849	1133	1142	1156	rBV	319326	665599	77.31%	13.754%
8	10.324	1375	1384	1393	rBV	476494	860983	100.00%	17.791%
9	11.629	1591	1598	1609	rBV	462380	800106	92.93%	16.533%
10	12.617	1747	1760	1771	rBV2	324294	573537	66.61%	11.851%
11	13.556	1907	1914	1926	rVB	402768	636417	73.92%	13.151%

Sum of corrected areas: 4839417

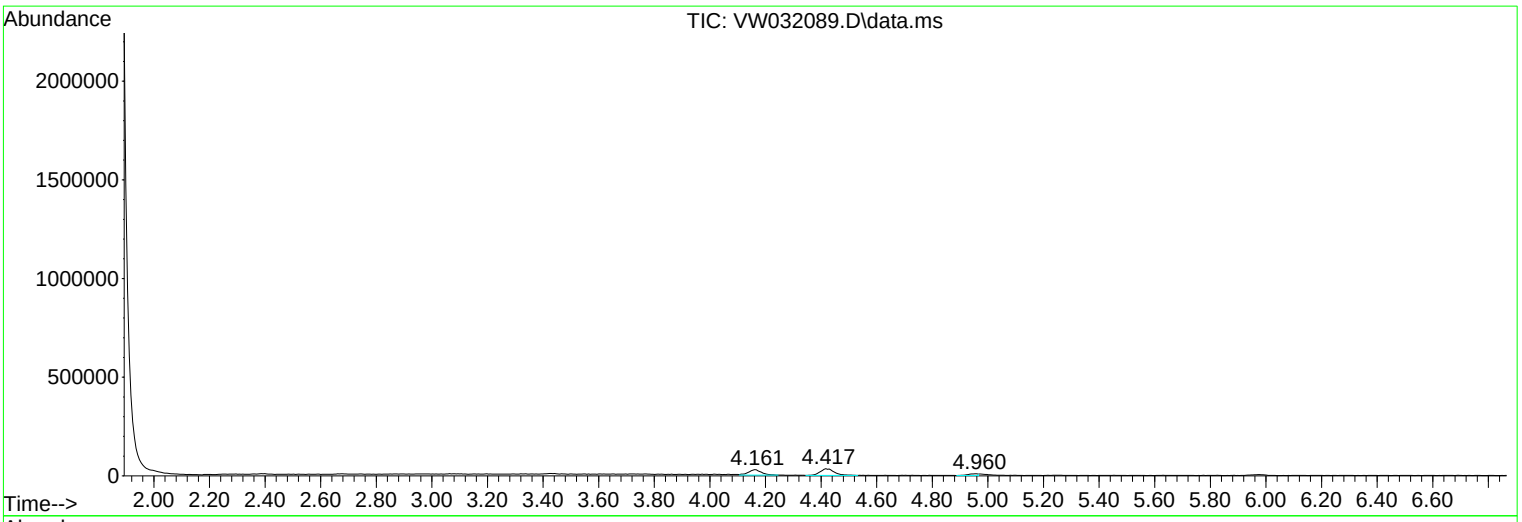
Sample Results: **VW032089.D**

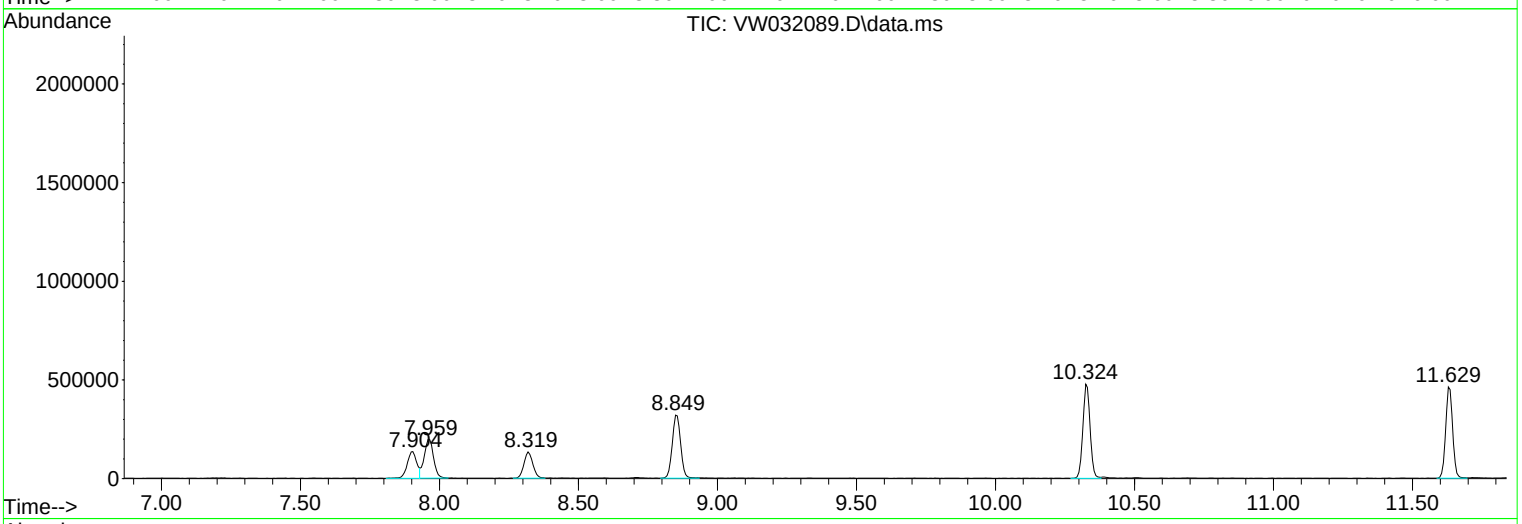
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032089.D
Acq On : 14 Aug 2025 13:31
Operator : SY/MD
Sample : Q2820-06
Misc : 3.48g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

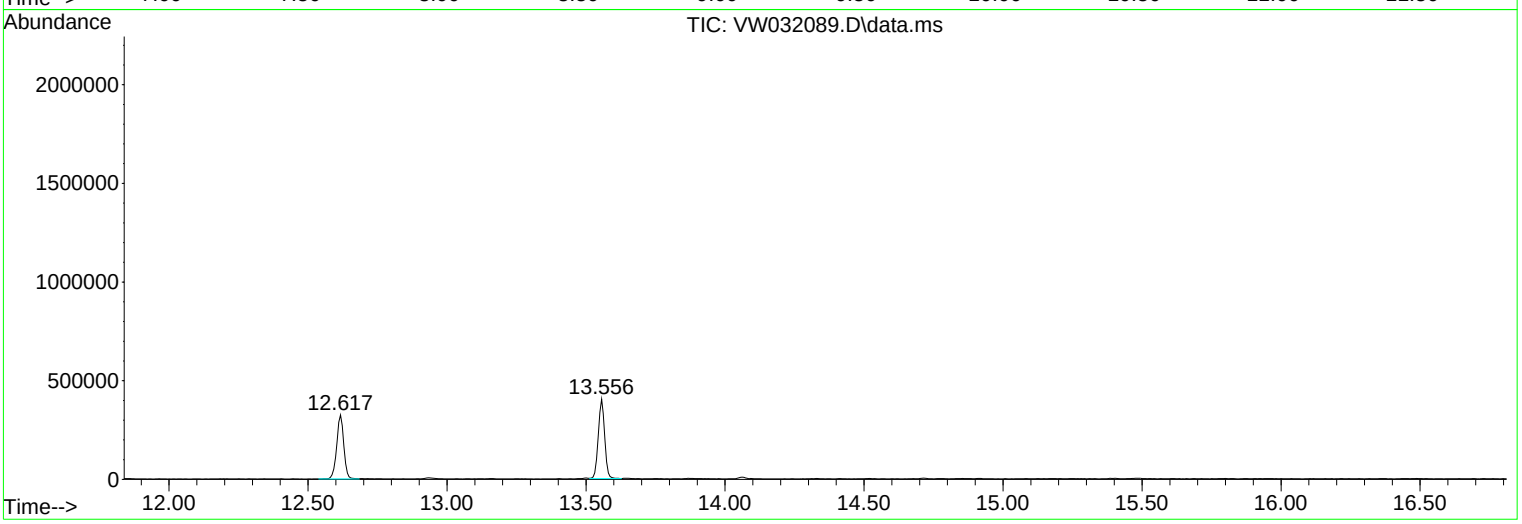
Instrument :
MSVOA_W
ClientSampleId :
518R-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VW032089.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032089.D
Acq On : 14 Aug 2025 13:31
Operator : SY/MD
Sample : Q2820-06
Misc : 3.48g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032089.D
Acq On : 14 Aug 2025 13:31
Operator : SY/MD
Sample : Q2820-06
Misc : 3.48g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032090.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.6
Sample Wt/Vol:	6.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032090.D	1	08/14/25 13:54	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.10	U	1.20	4.10	5.10	ug/Kg
74-87-3	Chloromethane	2.50	U	1.20	2.50	5.10	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.80	2.50	5.10	ug/Kg
74-83-9	Bromomethane	4.10	U	1.10	4.10	5.10	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.10	ug/Kg
75-69-4	Trichlorofluoromethane	4.10	U	1.20	4.10	5.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.10	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.10	ug/Kg
67-64-1	Acetone	20.3	U	4.80	20.3	25.4	ug/Kg
75-15-0	Carbon Disulfide	4.10	U	1.10	4.10	5.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.74	2.50	5.10	ug/Kg
79-20-9	Methyl Acetate	4.10	U	1.60	4.10	5.10	ug/Kg
75-09-2	Methylene Chloride	8.10	U	3.60	8.10	10.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.87	2.50	5.10	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.81	2.50	5.10	ug/Kg
110-82-7	Cyclohexane	2.50	U	0.80	2.50	5.10	ug/Kg
78-93-3	2-Butanone	20.3	U	6.60	20.3	25.4	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.99	2.50	5.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.76	2.50	5.10	ug/Kg
74-97-5	Bromochloromethane	4.10	U	1.20	4.10	5.10	ug/Kg
67-66-3	Chloroform	4.10	U	0.85	4.10	5.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.95	2.50	5.10	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.92	2.50	5.10	ug/Kg
71-43-2	Benzene	2.50	U	0.80	2.50	5.10	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.80	2.50	5.10	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.82	2.50	5.10	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.92	2.50	5.10	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.79	2.50	5.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.7	U	3.60	12.7	25.4	ug/Kg
108-88-3	Toluene	2.50	U	0.79	2.50	5.10	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.6
Sample Wt/Vol:	6.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032090.D	1	08/14/25 13:54	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.66	2.50	5.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.63	2.50	5.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.93	2.50	5.10	ug/Kg
591-78-6	2-Hexanone	12.7	U	3.70	12.7	25.4	ug/Kg
124-48-1	Dibromochloromethane	2.50	U	0.88	2.50	5.10	ug/Kg
106-93-4	1,2-Dibromoethane	2.50	U	0.89	2.50	5.10	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.10	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.92	2.50	5.10	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.68	2.50	5.10	ug/Kg
179601-23-1	m/p-Xylenes	5.10	U	1.30	5.10	10.2	ug/Kg
95-47-6	o-Xylene	2.50	U	0.83	2.50	5.10	ug/Kg
100-42-5	Styrene	2.50	U	0.72	2.50	5.10	ug/Kg
75-25-2	Bromoform	2.50	U	0.87	2.50	5.10	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.79	2.50	5.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.10	U	1.90	4.10	5.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.10	U	3.00	4.10	5.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.10	U	3.20	4.10	5.10	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.2		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	48.0		85 - 116		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		79 - 119		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	146000	7.965				
540-36-3	1,4-Difluorobenzene	301000	8.855				
3114-55-4	Chlorobenzene-d5	281000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	122000	13.556				

Raw Data: **VW032090.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.6
Sample Wt/Vol:	6.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032090.D	1	08/14/25 13:54	VW081425

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

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

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

Sample Results: **VW032090.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032090.D
Acq On : 14 Aug 2025 13:54
Operator : SY/MD
Sample : Q2820-07
Misc : 6.26g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Quant Time: Aug 18 03:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	145772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	300621	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	280561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	122108	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120663	57.233	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 114.460%			
35) Dibromofluoromethane	7.898	113	106169	54.666	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 109.340%			
50) Toluene-d8	10.331	98	344643	47.978	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 95.960%			
62) 4-Bromofluorobenzene	12.617	95	121505	45.900	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 91.800%			

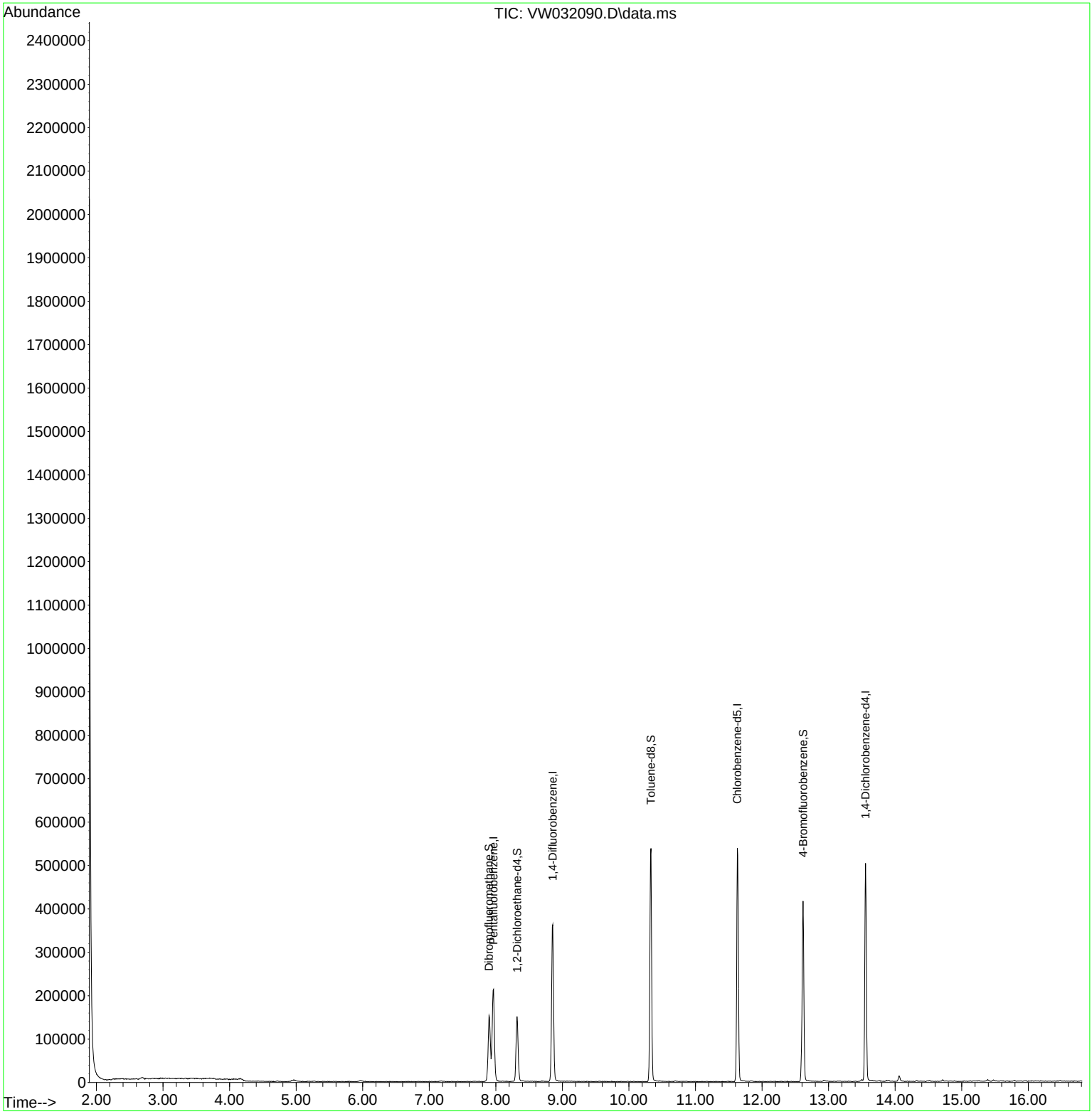
Target Compounds Qvalue

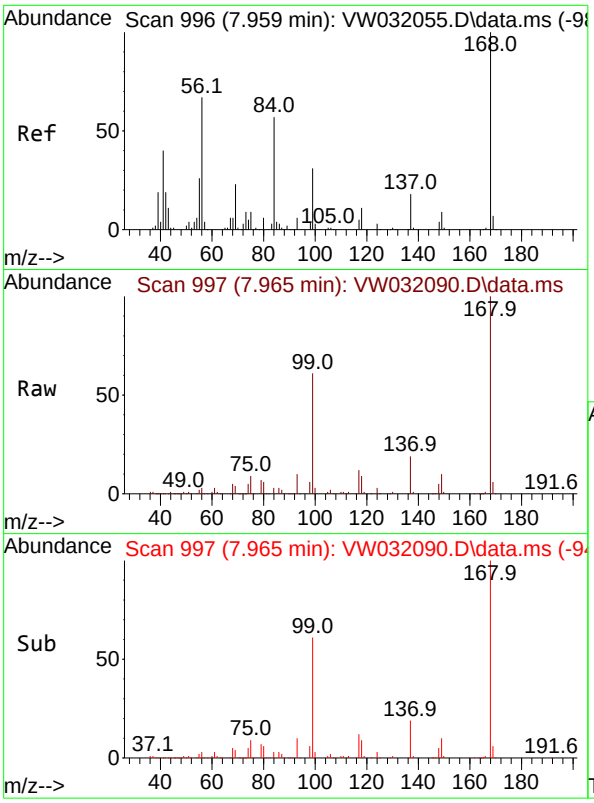
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032090.D
Acq On : 14 Aug 2025 13:54
Operator : SY/MD
Sample : Q2820-07
Misc : 6.26g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Quant Time: Aug 18 03:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



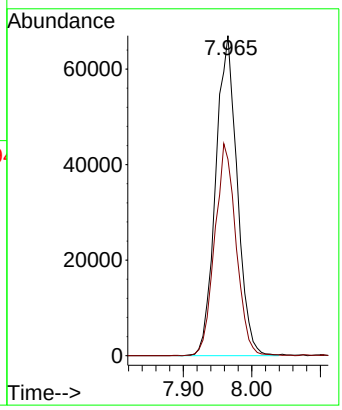


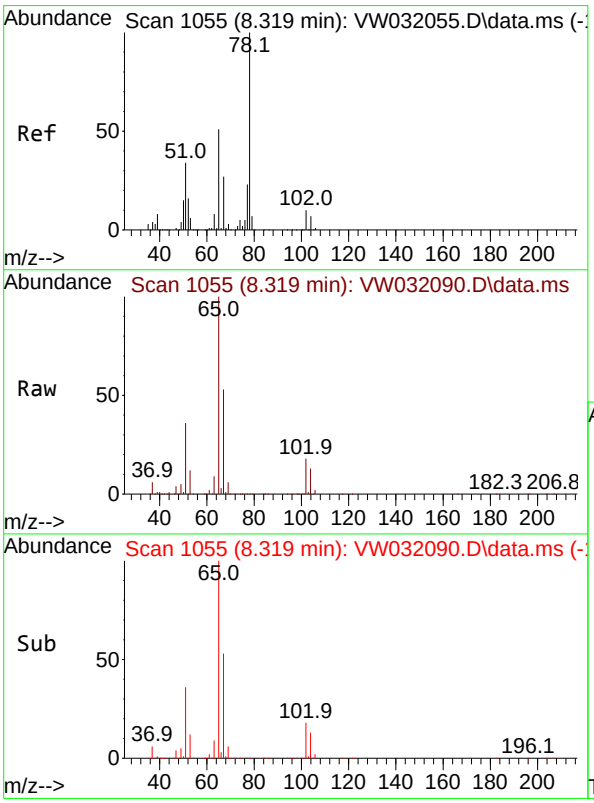
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Tgt Ion:168 Resp: 145772

Ion	Ratio	Lower	Upper
168	100		
99	61.2	56.0	84.0

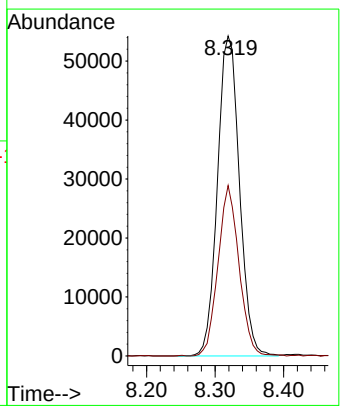


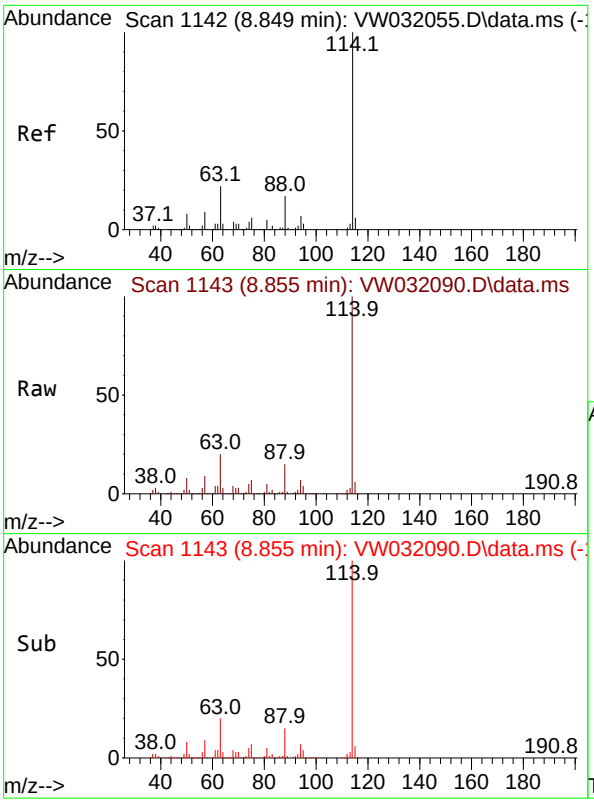


#33
1,2-Dichloroethane-d4
Concen: 57.233 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Tgt Ion: 65 Resp: 120663

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	102.4



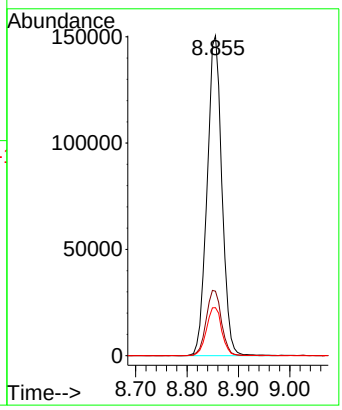


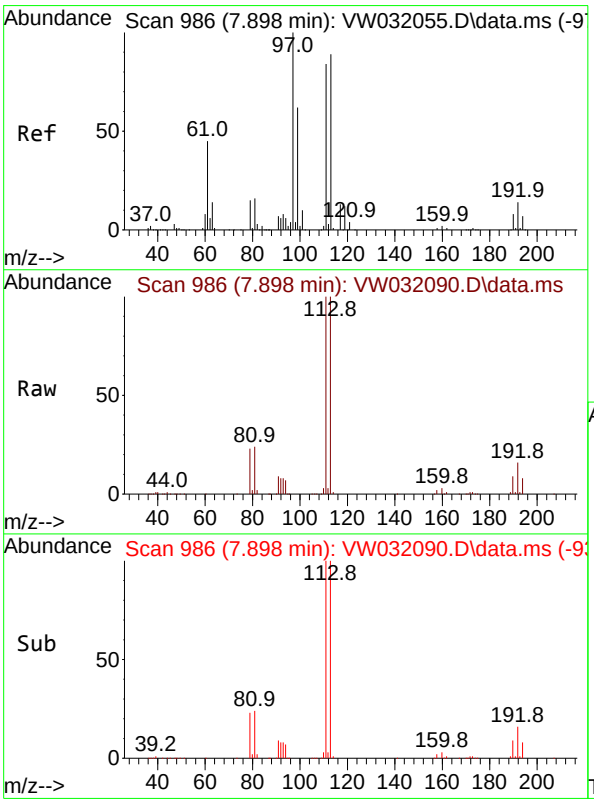
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Tgt Ion:114 Resp: 300621

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	43.0
88	15.0	0.0	33.8

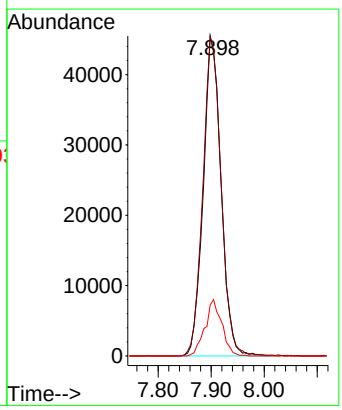


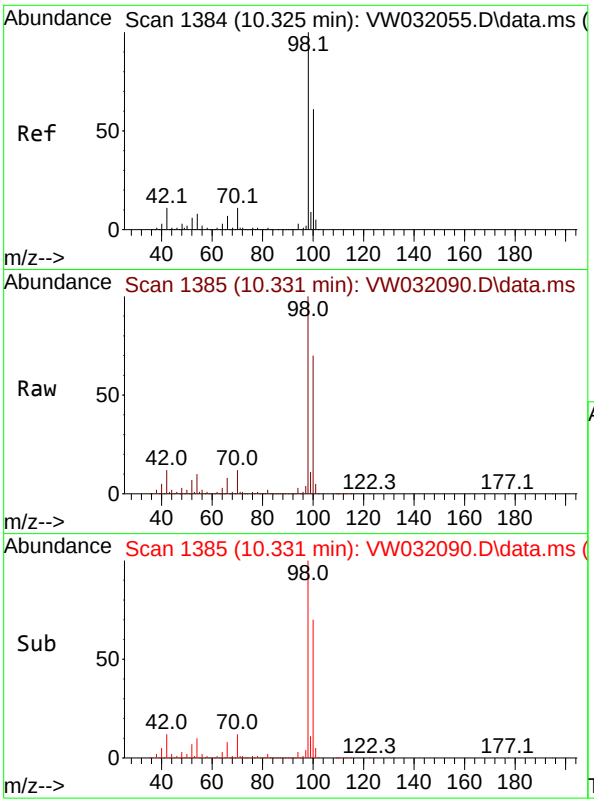


#35
Dibromofluoromethane
Concen: 54.666 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Tgt Ion:113 Resp: 106169

Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.1	120.1
192	16.6	13.1	19.7



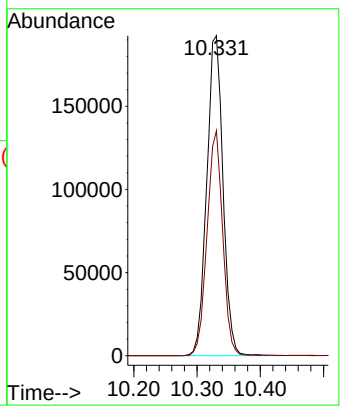


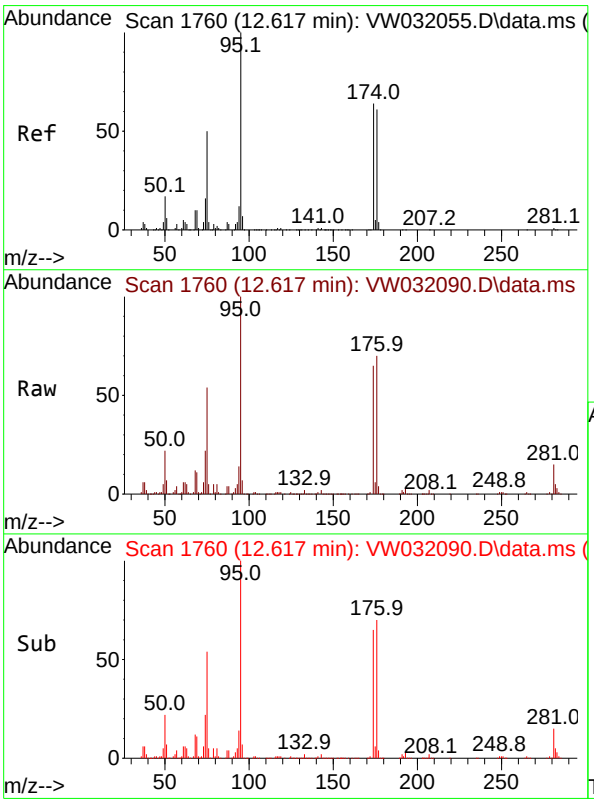
#50
Toluene-d8
Concen: 47.978 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Tgt Ion: 98 Resp: 344643

Ion	Ratio	Lower	Upper
98	100		
100	67.4	51.1	76.7

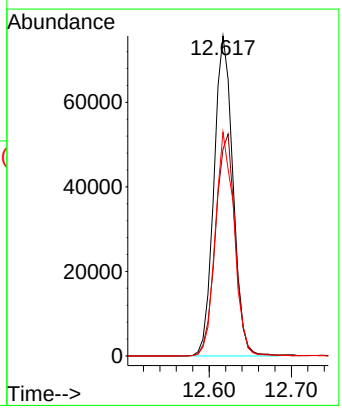


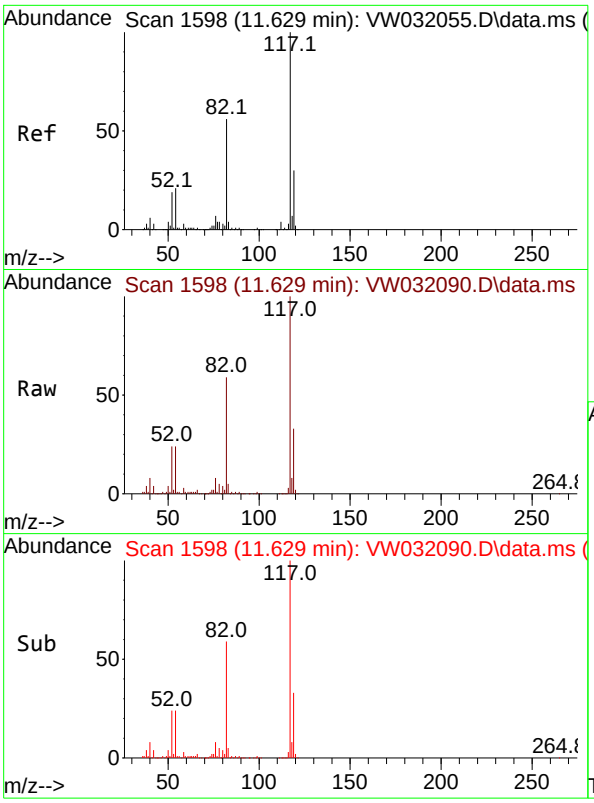


#62
4-Bromofluorobenzene
Concen: 45.900 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Tgt Ion: 95 Resp: 121505

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	129.0
176	69.5	0.0	124.6



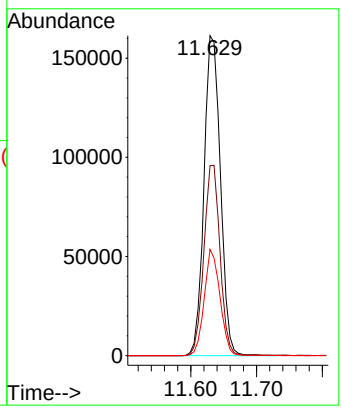


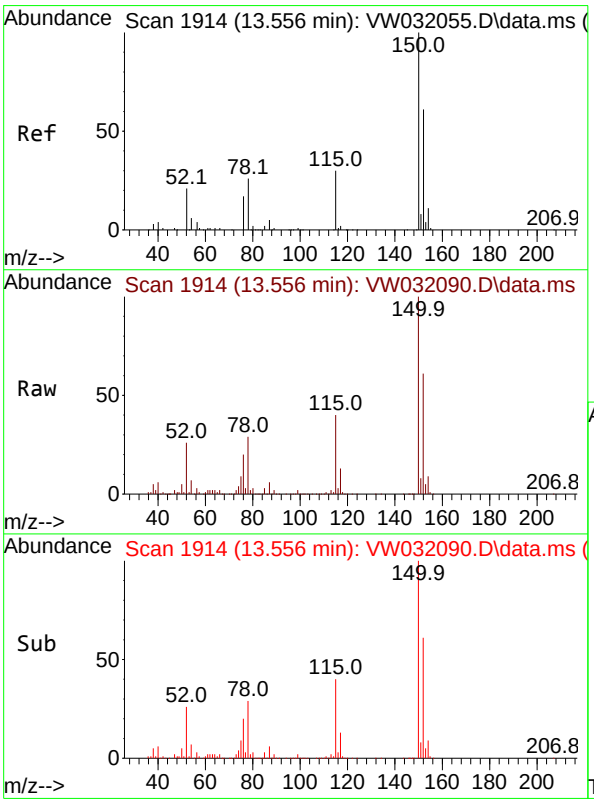
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Tgt Ion:117 Resp: 280561

Ion	Ratio	Lower	Upper
117	100		
82	59.3	45.0	67.4
119	33.2	24.2	36.4

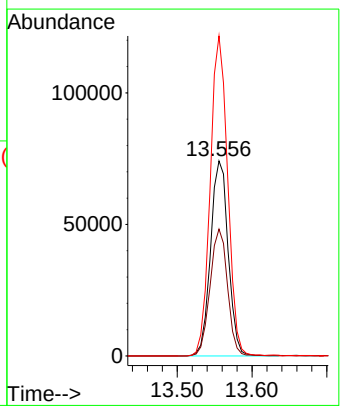




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032090.D
Acq: 14 Aug 2025 13:54

Tgt Ion:152 Resp: 122108

Ion	Ratio	Lower	Upper
152	100		
115	64.3	32.6	97.8
150	161.3	0.0	359.4



Sample Results: **VW032090.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032090.D
Acq On : 14 Aug 2025 13:54
Operator : SY/MD
Sample : Q2820-07
Misc : 6.26g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032090.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.898	975	986	991	rBV	151723	357231	37.03%	6.611%
2	7.965	991	997	1010	rVB	212184	491925	50.99%	9.104%
3	8.319	1045	1055	1065	rBV	149504	326686	33.86%	6.046%
4	8.855	1132	1143	1152	rBV	361800	742325	76.94%	13.738%
5	10.331	1375	1385	1394	rBV	537598	964764	100.00%	17.855%
6	11.629	1590	1598	1607	rBV	537558	925022	95.88%	17.119%
7	12.617	1750	1760	1771	rBV3	416104	765673	79.36%	14.170%
8	13.556	1907	1914	1925	rVB	500362	805307	83.47%	14.904%
9	14.062	1988	1997	2003	rBV2	12476	24394	2.53%	0.451%

Sum of corrected areas: 5403327

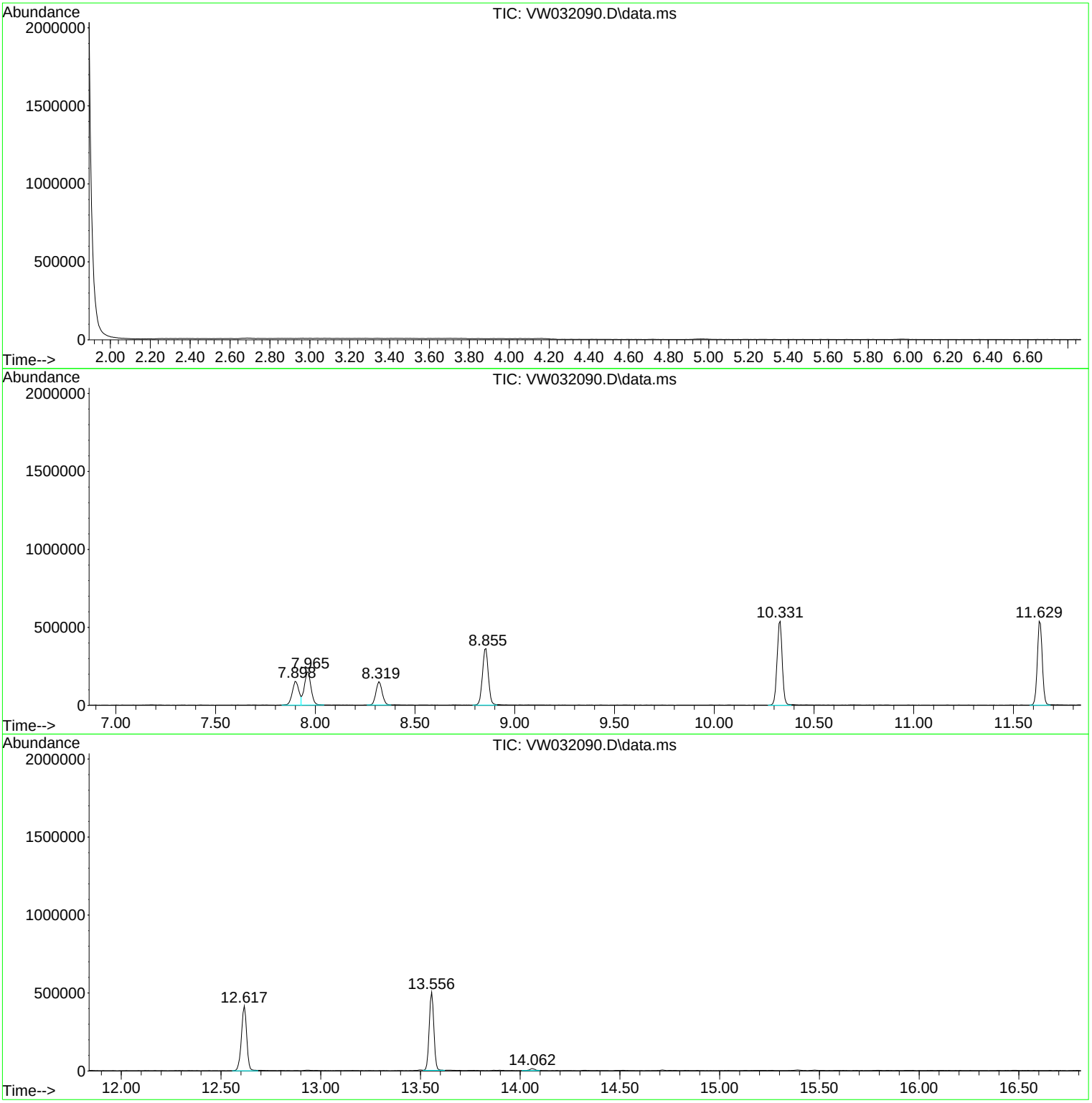
Sample Results: **VW032090.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032090.D
Acq On : 14 Aug 2025 13:54
Operator : SY/MD
Sample : Q2820-07
Misc : 6.26g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032090.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032090.D
Acq On : 14 Aug 2025 13:54
Operator : SY/MD
Sample : Q2820-07
Misc : 6.26g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032090.D
Acq On : 14 Aug 2025 13:54
Operator : SY/MD
Sample : Q2820-07
Misc : 6.26g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032091.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89
Sample Wt/Vol:	7.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032091.D	1	08/14/25 14:16	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.10	U	0.90	3.10	3.90	ug/Kg
74-87-3	Chloromethane	2.00	U	0.90	2.00	3.90	ug/Kg
75-01-4	Vinyl Chloride	2.00	U	0.62	2.00	3.90	ug/Kg
74-83-9	Bromomethane	3.10	U	0.84	3.10	3.90	ug/Kg
75-00-3	Chloroethane	2.00	U	0.99	2.00	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	3.10	U	0.95	3.10	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00	U	0.83	2.00	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	2.00	U	0.79	2.00	3.90	ug/Kg
67-64-1	Acetone	33.9		3.70	15.7	19.7	ug/Kg
75-15-0	Carbon Disulfide	3.10	U	0.83	3.10	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.00	U	0.57	2.00	3.90	ug/Kg
79-20-9	Methyl Acetate	3.10	U	1.20	3.10	3.90	ug/Kg
75-09-2	Methylene Chloride	6.60	J	2.80	6.30	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.00	U	0.68	2.00	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	2.00	U	0.63	2.00	3.90	ug/Kg
110-82-7	Cyclohexane	2.00	U	0.62	2.00	3.90	ug/Kg
78-93-3	2-Butanone	15.7	U	5.10	15.7	19.7	ug/Kg
56-23-5	Carbon Tetrachloride	2.00	U	0.76	2.00	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.00	U	0.59	2.00	3.90	ug/Kg
74-97-5	Bromochloromethane	3.10	U	0.90	3.10	3.90	ug/Kg
67-66-3	Chloroform	3.10	U	0.66	3.10	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.00	U	0.73	2.00	3.90	ug/Kg
108-87-2	Methylcyclohexane	2.00	U	0.72	2.00	3.90	ug/Kg
71-43-2	Benzene	2.00	U	0.62	2.00	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	2.00	U	0.62	2.00	3.90	ug/Kg
79-01-6	Trichloroethene	2.00	U	0.64	2.00	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	2.00	U	0.72	2.00	3.90	ug/Kg
75-27-4	Bromodichloromethane	2.00	U	0.61	2.00	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.80	U	2.80	9.80	19.7	ug/Kg
108-88-3	Toluene	2.00	U	0.61	2.00	3.90	ug/Kg

Raw Data: **VW032091.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89
Sample Wt/Vol:	7.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032091.D	1	08/14/25 14:16	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.00	U	0.51	2.00	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.00	U	0.49	2.00	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.00	U	0.72	2.00	3.90	ug/Kg
591-78-6	2-Hexanone	9.80	U	2.90	9.80	19.7	ug/Kg
124-48-1	Dibromochloromethane	2.00	U	0.68	2.00	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	2.00	U	0.69	2.00	3.90	ug/Kg
127-18-4	Tetrachloroethene	2.00	U	0.83	2.00	3.90	ug/Kg
108-90-7	Chlorobenzene	2.00	U	0.72	2.00	3.90	ug/Kg
100-41-4	Ethyl Benzene	2.00	U	0.53	2.00	3.90	ug/Kg
179601-23-1	m/p-Xylenes	3.90	U	0.98	3.90	7.90	ug/Kg
95-47-6	o-Xylene	2.00	U	0.65	2.00	3.90	ug/Kg
100-42-5	Styrene	2.00	U	0.56	2.00	3.90	ug/Kg
75-25-2	Bromoform	2.00	U	0.68	2.00	3.90	ug/Kg
98-82-8	Isopropylbenzene	2.00	U	0.61	2.00	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	0.95	2.00	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	1.30	2.00	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.00	U	1.20	2.00	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.00	U	1.10	2.00	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.10	U	1.40	3.10	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	2.30	3.10	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	2.50	3.10	3.90	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.0		71 - 136		118%	SPK: 50
1868-53-7	Dibromofluoromethane	59.4		78 - 119		119%	SPK: 50
2037-26-5	Toluene-d8	53.0		85 - 116		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		79 - 119		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	141000	7.959				
540-36-3	1,4-Difluorobenzene	276000	8.855				
3114-55-4	Chlorobenzene-d5	280000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.556				

Raw Data: **VW032091.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89
Sample Wt/Vol:	7.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032091.D	1	08/14/25 14:16	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032091.D
Acq On : 14 Aug 2025 14:16
Operator : SY/MD
Sample : Q2820-08
Misc : 7.14g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Quant Time: Aug 18 03:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

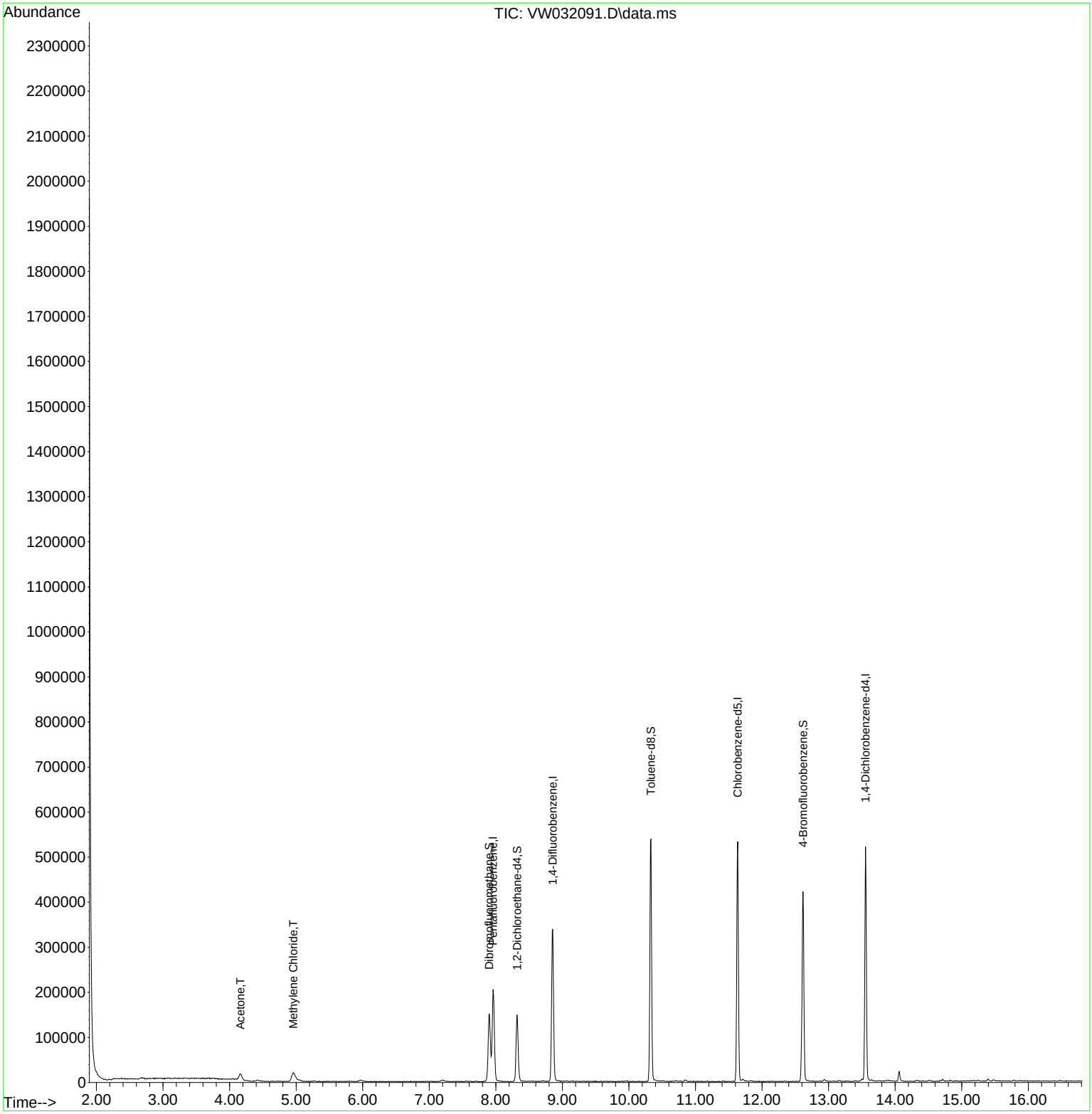
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	140686	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	276303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	279575	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	127979	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120130	59.040	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 118.080%			
35) Dibromofluoromethane	7.898	113	105957	59.359	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 118.720%			
50) Toluene-d8	10.331	98	349831	52.986	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 105.980%			
62) 4-Bromofluorobenzene	12.617	95	123573	50.790	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.580%			
Target Compounds						Qvalue
16) Acetone	4.161	43	20310	43.113	ug/l	95
20) Methylene Chloride	4.960	84	18319	8.410	ug/l	88

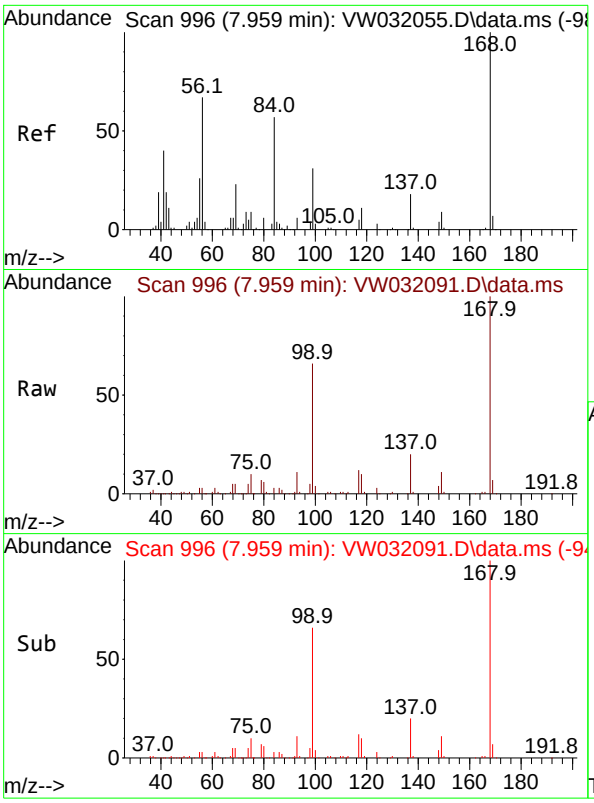
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032091.D
Acq On : 14 Aug 2025 14:16
Operator : SY/MD
Sample : Q2820-08
Misc : 7.14g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Quant Time: Aug 18 03:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



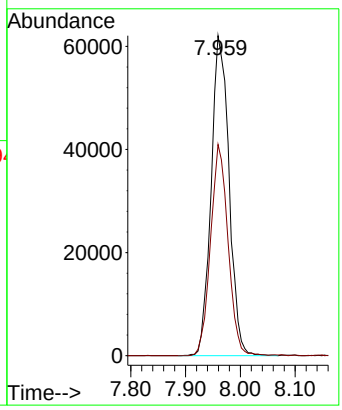


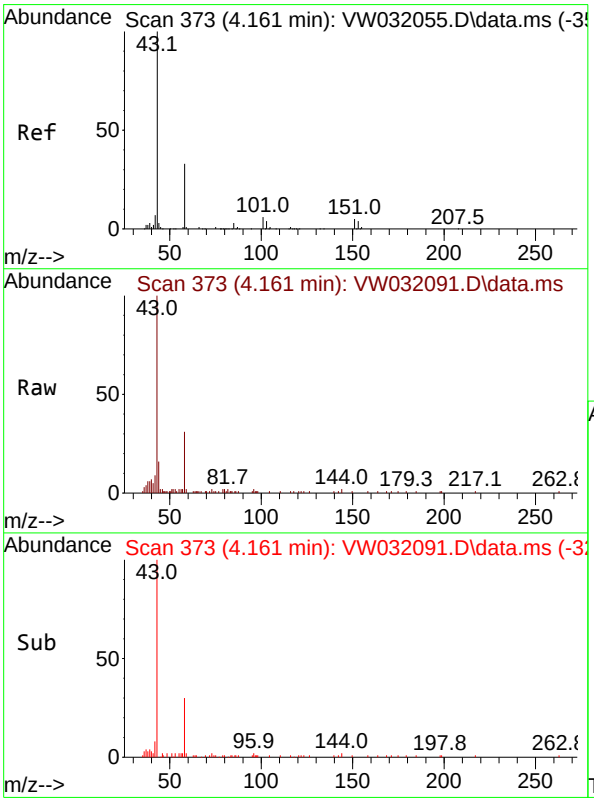
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Tgt Ion:168 Resp: 140686

Ion	Ratio	Lower	Upper
168	100		
99	66.0	56.0	84.0

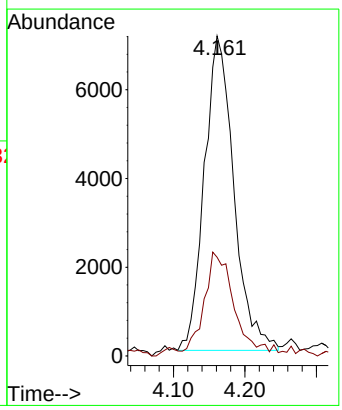


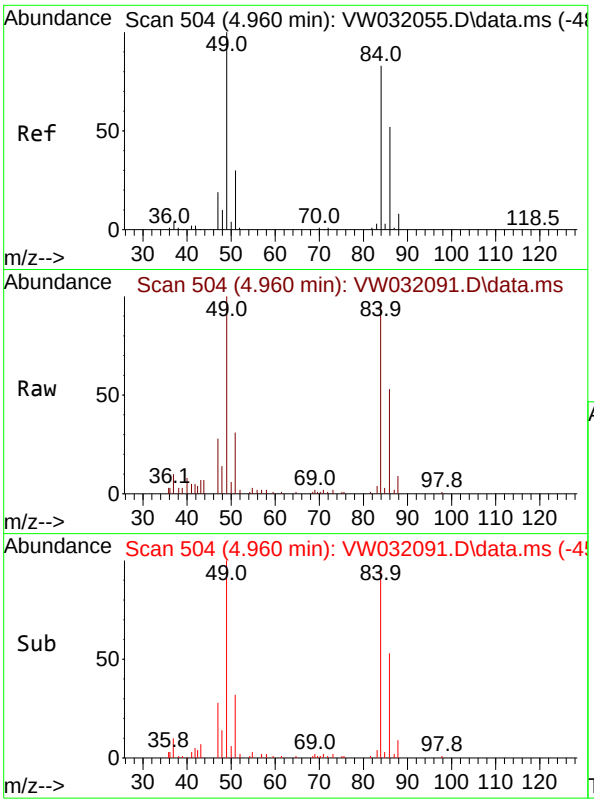


#16
Acetone
Concen: 43.113 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 43 Resp: 20310

Ion	Ratio	Lower	Upper
43	100		
58	30.4	26.6	39.8



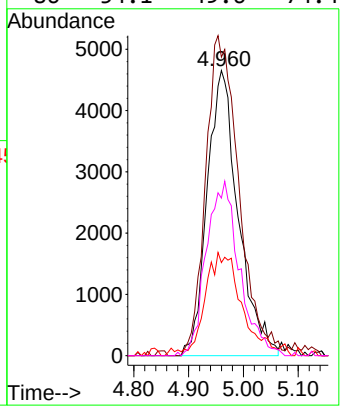


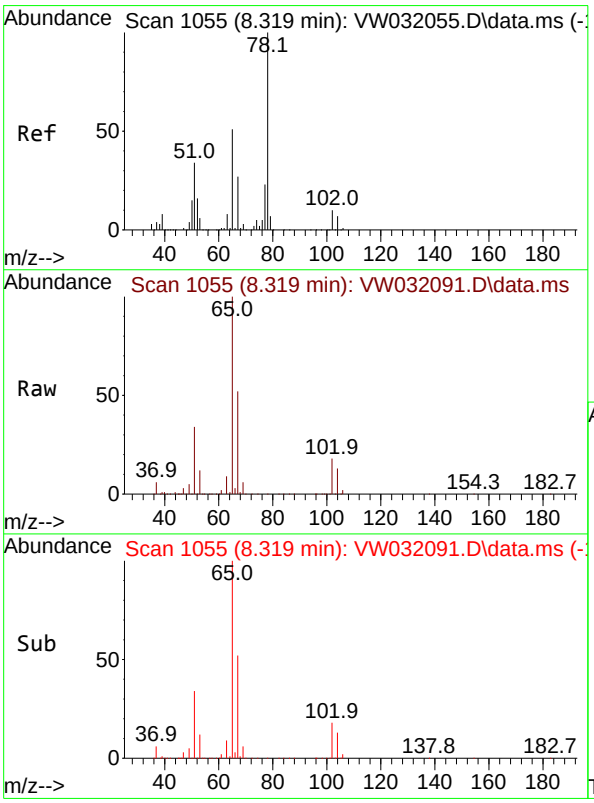
#20
Methylene Chloride
Concen: 8.410 ug/l
RT: 4.960 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Tgt Ion: 84 Resp: 18319

Ion	Ratio	Lower	Upper
84	100		
49	104.7	95.9	143.9
51	30.6	28.6	43.0
86	54.1	49.6	74.4

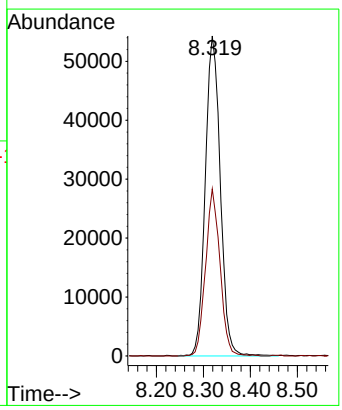


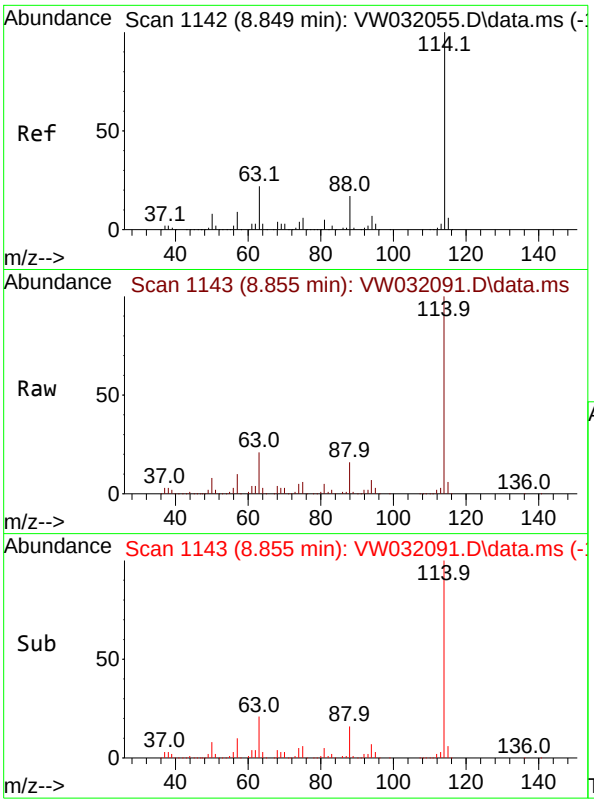


#33
1,2-Dichloroethane-d4
Concen: 59.040 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 65 Resp: 120130

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	102.4



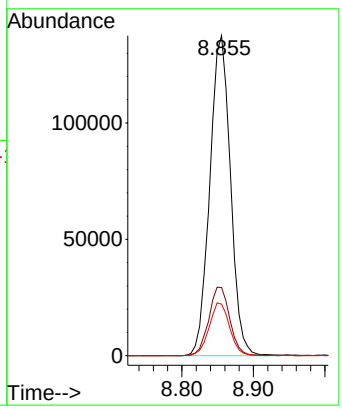


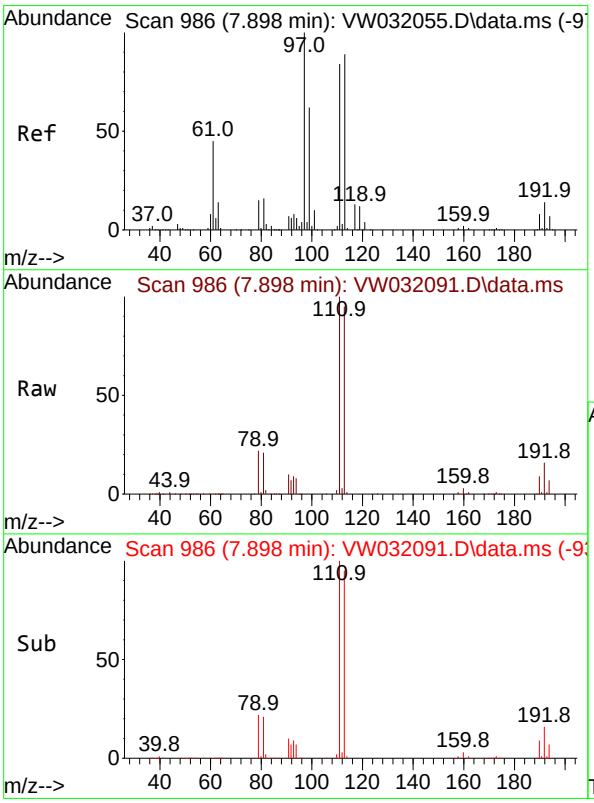
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Tgt Ion:114 Resp: 276303

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	16.1	0.0	33.8

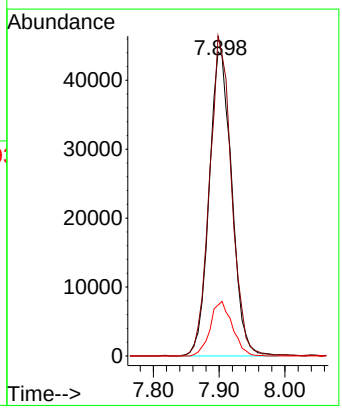


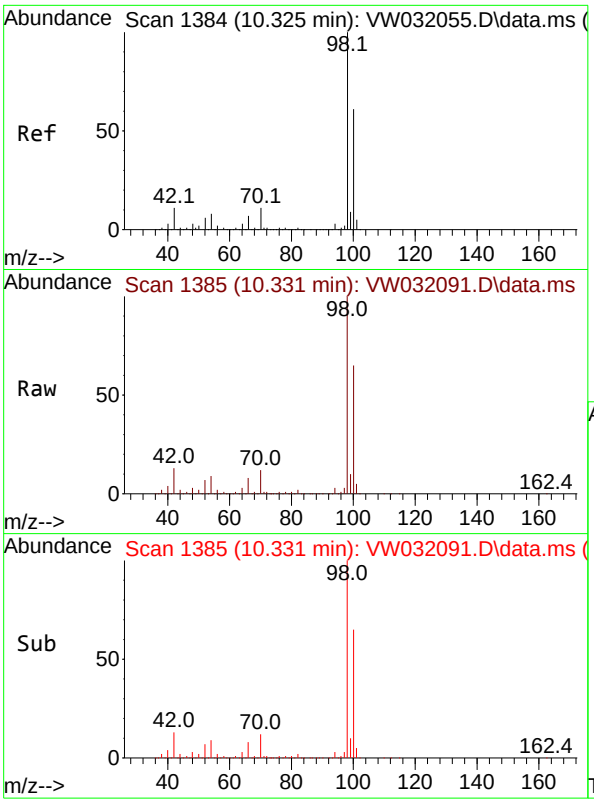


#35
Dibromofluoromethane
Concen: 59.359 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion:113 Resp: 105957

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.1	120.1
192	17.4	13.1	19.7



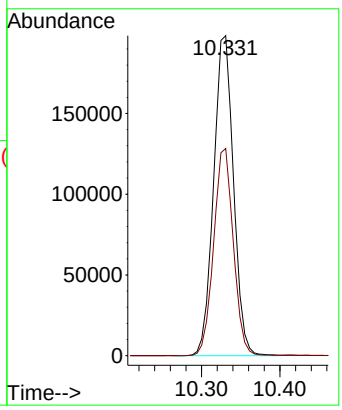


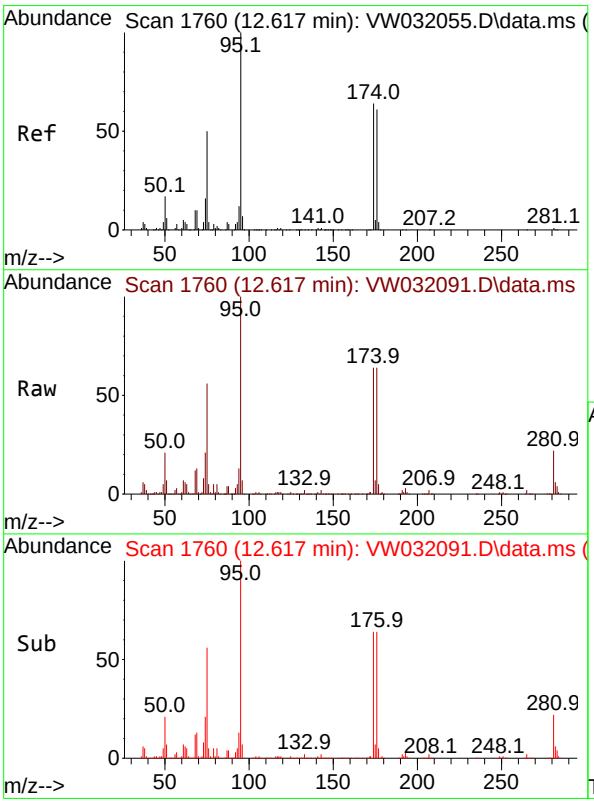
#50
Toluene-d8
Concen: 52.986 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Tgt Ion: 98 Resp: 349831

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.1	76.7

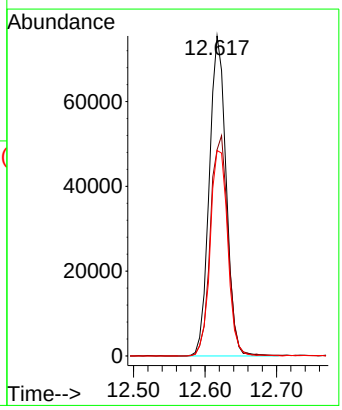


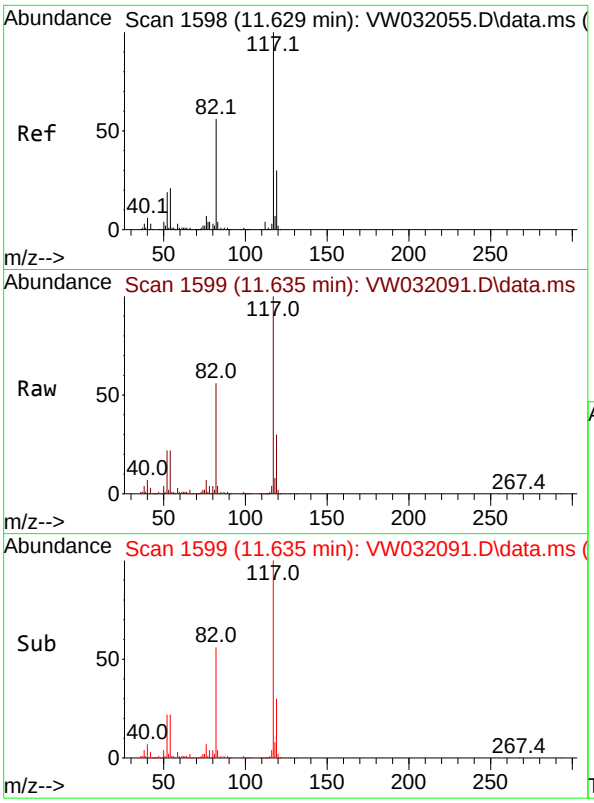


#62
4-Bromofluorobenzene
Concen: 50.790 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 95 Resp: 123573

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	129.0
176	66.7	0.0	124.6



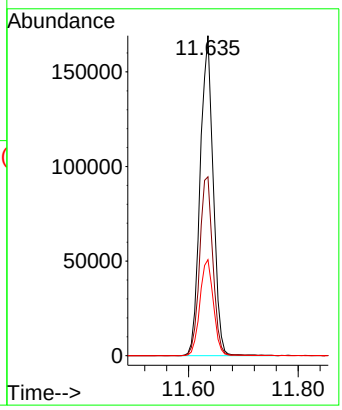


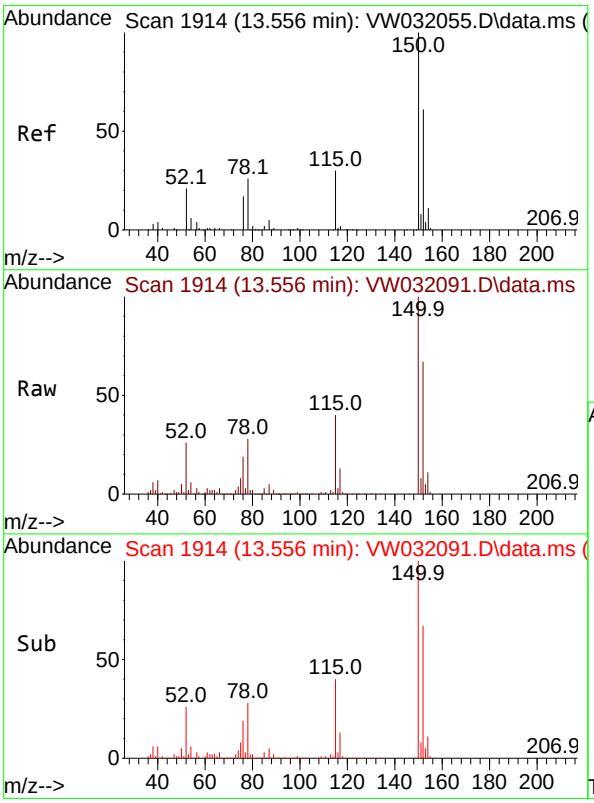
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Tgt Ion:117 Resp: 279575

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.0	67.4
119	30.0	24.2	36.4

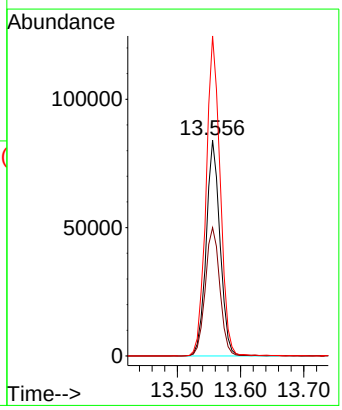




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion:152 Resp: 127979

Ion	Ratio	Lower	Upper
152	100		
115	62.5	32.6	97.8
150	151.1	0.0	359.4



Sample Results: **VW032091.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032091.D
Acq On : 14 Aug 2025 14:16
Operator : SY/MD
Sample : Q2820-08
Misc : 7.14g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032091.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	366	373	383	rVB2	14470	47096	4.89%	0.858%
2	4.954	493	503	516	rBV3	19099	79951	8.30%	1.457%
3	7.898	976	986	991	rBV	149324	355609	36.94%	6.479%
4	7.959	991	996	1013	rVB	203651	466395	48.44%	8.498%
5	8.319	1045	1055	1065	rBV	148111	327740	34.04%	5.971%
6	8.855	1134	1143	1153	rBV	337189	692868	71.97%	12.624%
7	10.331	1374	1385	1393	rBV	537083	962771	100.00%	17.542%
8	11.635	1590	1599	1606	rBV	532789	908443	94.36%	16.552%
9	12.617	1752	1760	1769	rBV2	420821	796004	82.68%	14.503%
10	13.556	1907	1914	1924	rVB	518789	817486	84.91%	14.894%
11	14.062	1992	1997	2002	rBV	21088	34150	3.55%	0.622%

Sum of corrected areas: 5488513

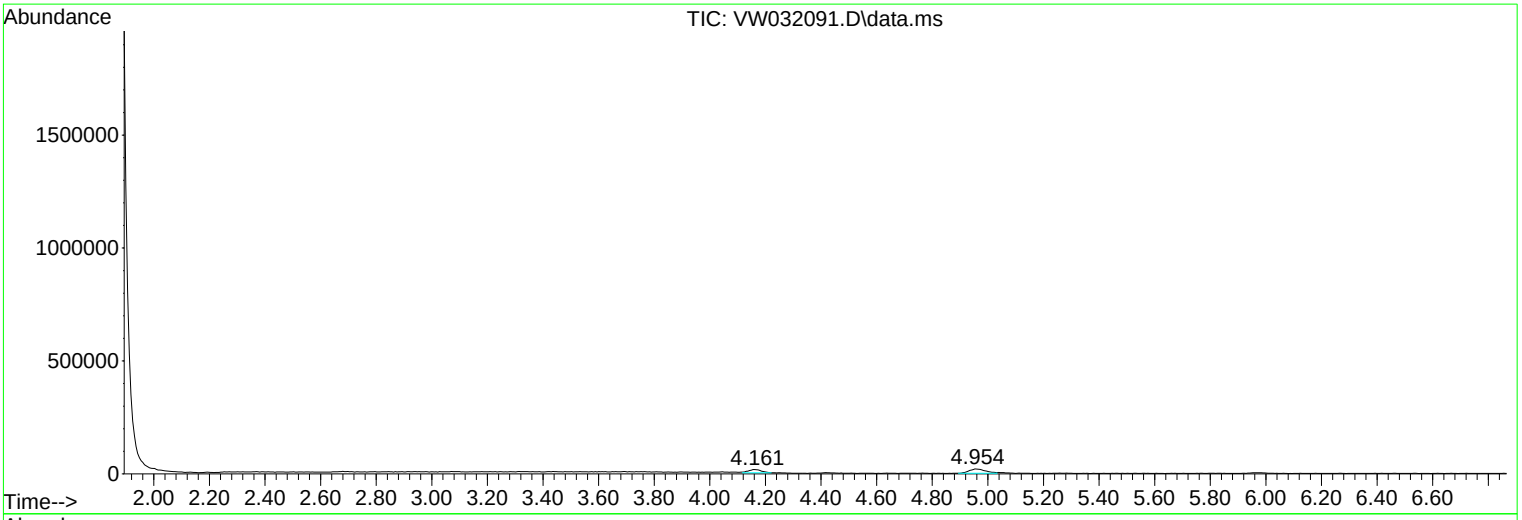
Sample Results: **VW032091.D**

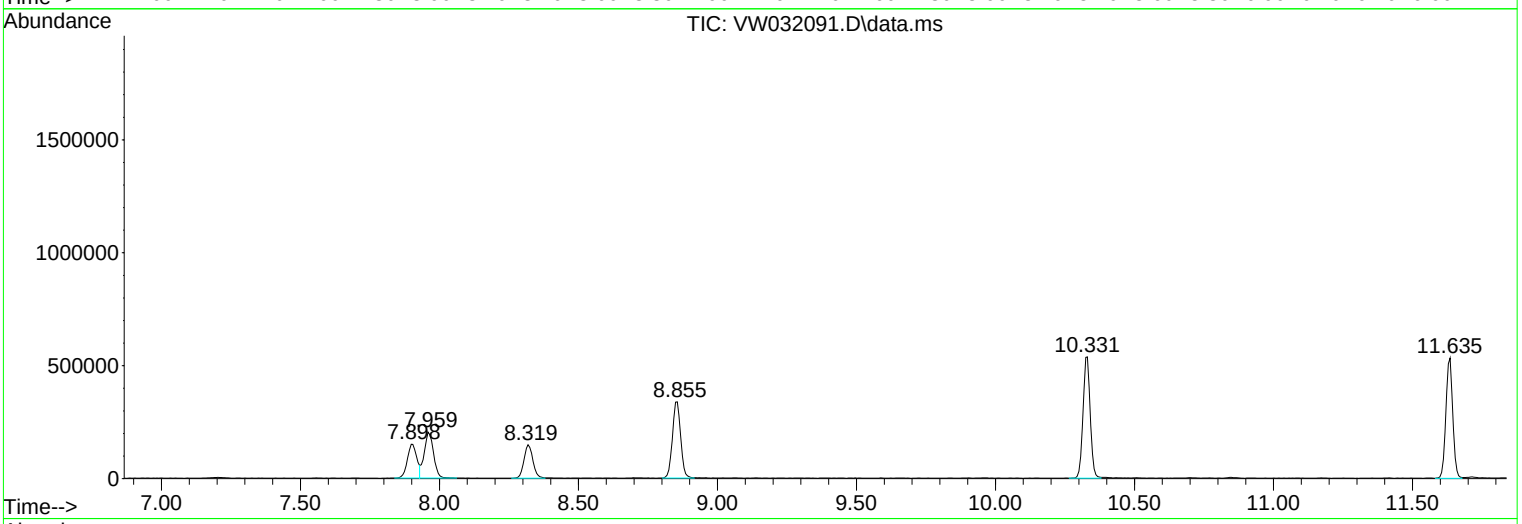
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032091.D
Acq On : 14 Aug 2025 14:16
Operator : SY/MD
Sample : Q2820-08
Misc : 7.14g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

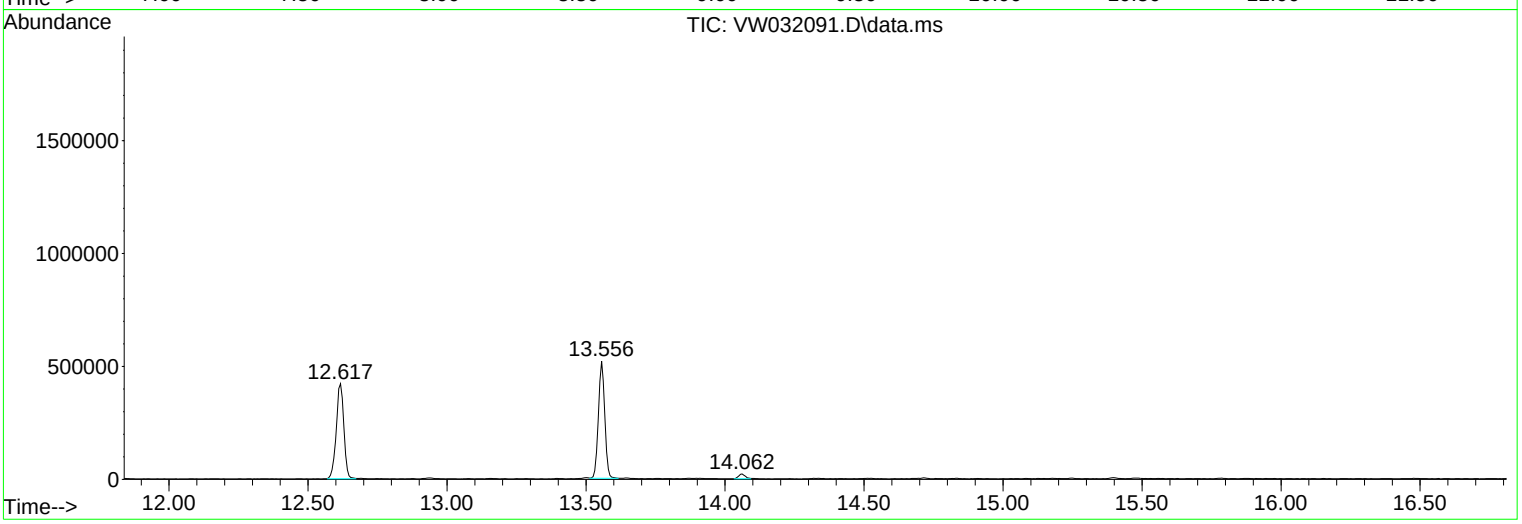
Instrument :
MSVOA_W
ClientSampleId :
518R-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VW032091.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032091.D
Acq On : 14 Aug 2025 14:16
Operator : SY/MD
Sample : Q2820-08
Misc : 7.14g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032091.D
Acq On : 14 Aug 2025 14:16
Operator : SY/MD
Sample : Q2820-08
Misc : 7.14g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
518R-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032092.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	705R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	55.8
Sample Wt/Vol:	6.4 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032092.D	1	08/14/25 14:39	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	5.60	U	1.60	5.60	7.00	ug/Kg
74-87-3	Chloromethane	3.50	U	1.60	3.50	7.00	ug/Kg
75-01-4	Vinyl Chloride	3.50	U	1.10	3.50	7.00	ug/Kg
74-83-9	Bromomethane	5.60	U	1.50	5.60	7.00	ug/Kg
75-00-3	Chloroethane	3.50	U	1.80	3.50	7.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.60	U	1.70	5.60	7.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	3.50	U	1.50	3.50	7.00	ug/Kg
75-35-4	1,1-Dichloroethene	3.50	U	1.40	3.50	7.00	ug/Kg
67-64-1	Acetone	30.8	J	6.60	28.0	35.0	ug/Kg
75-15-0	Carbon Disulfide	5.60	U	1.50	5.60	7.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.50	U	1.00	3.50	7.00	ug/Kg
79-20-9	Methyl Acetate	5.60	U	2.20	5.60	7.00	ug/Kg
75-09-2	Methylene Chloride	11.2	U	4.90	11.2	14.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.50	U	1.20	3.50	7.00	ug/Kg
75-34-3	1,1-Dichloroethane	3.50	U	1.10	3.50	7.00	ug/Kg
110-82-7	Cyclohexane	3.50	U	1.10	3.50	7.00	ug/Kg
78-93-3	2-Butanone	28.0	U	9.20	28.0	35.0	ug/Kg
56-23-5	Carbon Tetrachloride	3.50	U	1.40	3.50	7.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.50	U	1.10	3.50	7.00	ug/Kg
74-97-5	Bromochloromethane	5.60	U	1.60	5.60	7.00	ug/Kg
67-66-3	Chloroform	5.60	U	1.20	5.60	7.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	3.50	U	1.30	3.50	7.00	ug/Kg
108-87-2	Methylcyclohexane	3.50	U	1.30	3.50	7.00	ug/Kg
71-43-2	Benzene	3.50	U	1.10	3.50	7.00	ug/Kg
107-06-2	1,2-Dichloroethane	3.50	U	1.10	3.50	7.00	ug/Kg
79-01-6	Trichloroethene	3.50	U	1.10	3.50	7.00	ug/Kg
78-87-5	1,2-Dichloropropane	3.50	U	1.30	3.50	7.00	ug/Kg
75-27-4	Bromodichloromethane	3.50	U	1.10	3.50	7.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	17.5	U	5.00	17.5	35.0	ug/Kg
108-88-3	Toluene	3.50	U	1.10	3.50	7.00	ug/Kg

Raw Data: **VW032092.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	705R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	55.8
Sample Wt/Vol:	6.4 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032092.D	1	08/14/25 14:39	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	3.50	U	0.91	3.50	7.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	3.50	U	0.87	3.50	7.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	3.50	U	1.30	3.50	7.00	ug/Kg
591-78-6	2-Hexanone	17.5	U	5.20	17.5	35.0	ug/Kg
124-48-1	Dibromochloromethane	3.50	U	1.20	3.50	7.00	ug/Kg
106-93-4	1,2-Dibromoethane	3.50	U	1.20	3.50	7.00	ug/Kg
127-18-4	Tetrachloroethene	3.50	U	1.50	3.50	7.00	ug/Kg
108-90-7	Chlorobenzene	3.50	U	1.30	3.50	7.00	ug/Kg
100-41-4	Ethyl Benzene	3.50	U	0.94	3.50	7.00	ug/Kg
179601-23-1	m/p-Xylenes	7.00	U	1.70	7.00	14.0	ug/Kg
95-47-6	o-Xylene	3.50	U	1.10	3.50	7.00	ug/Kg
100-42-5	Styrene	3.50	U	0.99	3.50	7.00	ug/Kg
75-25-2	Bromoform	3.50	U	1.20	3.50	7.00	ug/Kg
98-82-8	Isopropylbenzene	3.50	U	1.10	3.50	7.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	3.50	U	1.70	3.50	7.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.50	U	2.40	3.50	7.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.50	U	2.20	3.50	7.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.50	U	2.00	3.50	7.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.60	U	2.60	5.60	7.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.60	U	4.20	5.60	7.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.60	U	4.50	5.60	7.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	65.6		71 - 136		131%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		78 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	48.7		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	140000	7.959				
540-36-3	1,4-Difluorobenzene	293000	8.849				
3114-55-4	Chlorobenzene-d5	286000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.556				

Raw Data: **VW032092.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	705R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	55.8
Sample Wt/Vol:	6.4 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032092.D	1	08/14/25 14:39	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032092.D
Acq On : 14 Aug 2025 14:39
Operator : SY/MD
Sample : Q2820-09
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Quant Time: Aug 18 03:52:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

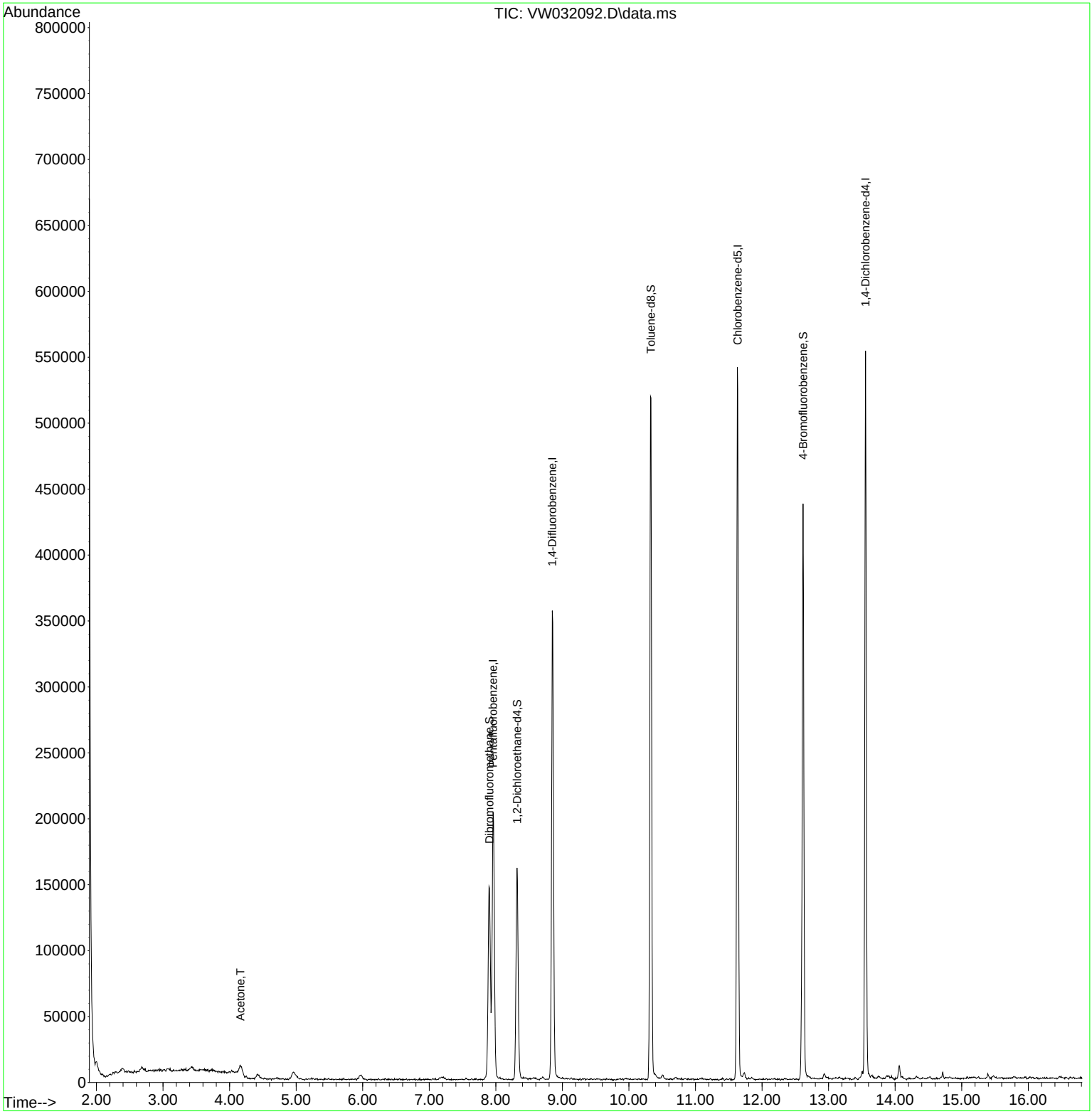
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	139519	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	293162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	286216	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	129964	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	132296	65.563	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 131.120%			
35) Dibromofluoromethane	7.904	113	104800	55.334	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.660%			
50) Toluene-d8	10.331	98	340851	48.657	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 97.320%			
62) 4-Bromofluorobenzene	12.617	95	126079	48.840	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 97.680%			
Target Compounds						Qvalue
16) Acetone	4.161	43	10275	21.994	ug/l #	85

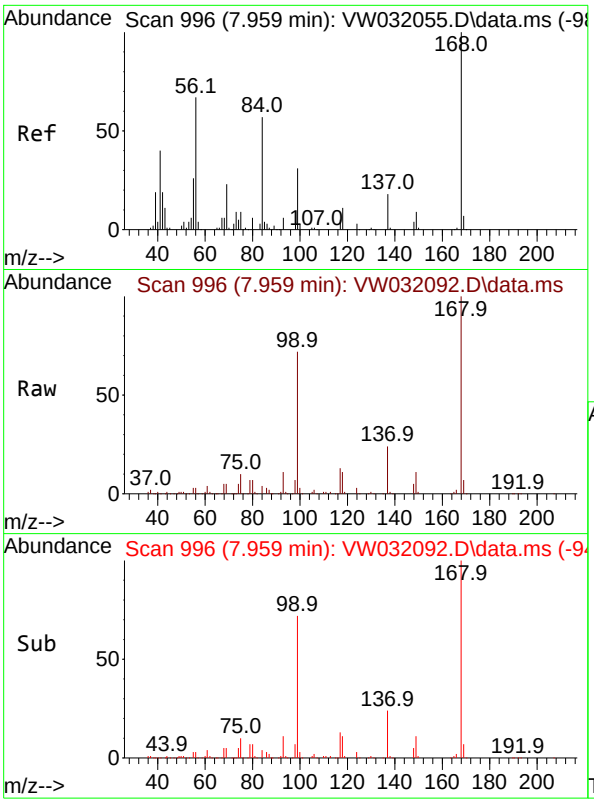
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032092.D
Acq On : 14 Aug 2025 14:39
Operator : SY/MD
Sample : Q2820-09
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Quant Time: Aug 18 03:52:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



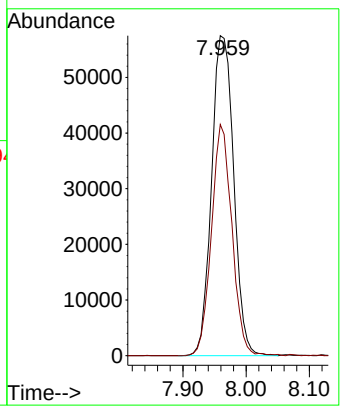


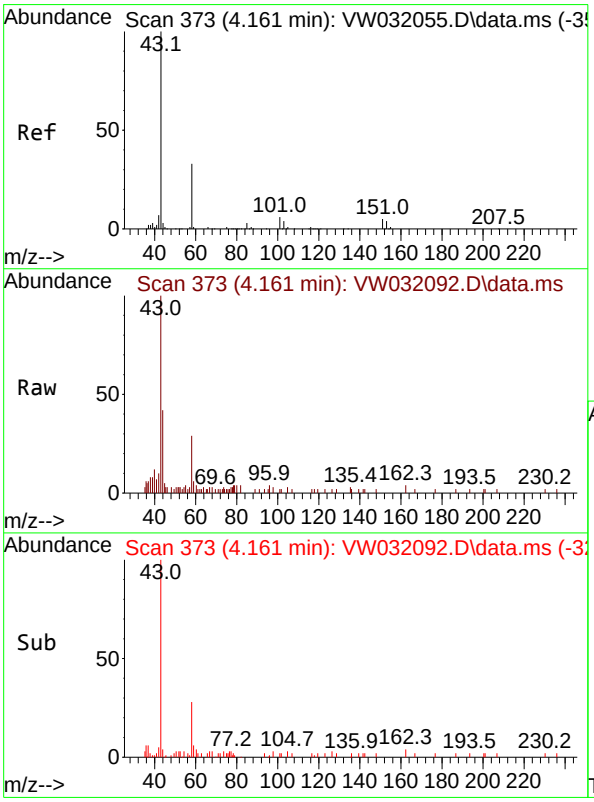
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Tgt Ion:168 Resp: 139519

Ion	Ratio	Lower	Upper
168	100		
99	72.2	56.0	84.0

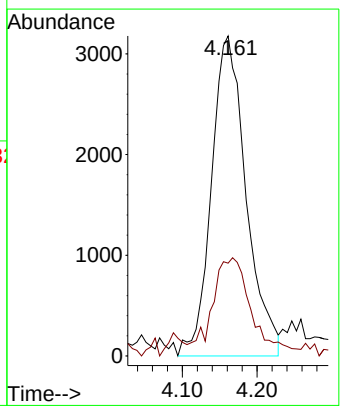


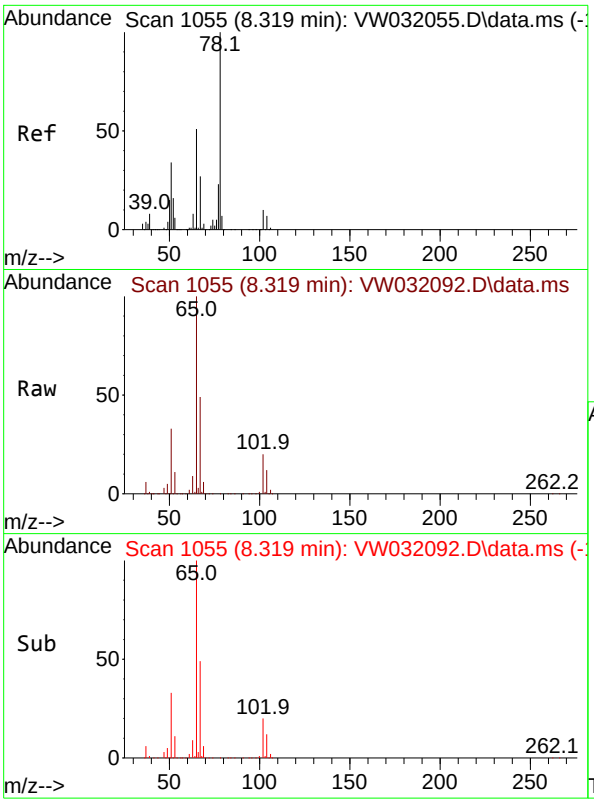


#16
Acetone
Concen: 21.994 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Tgt Ion: 43 Resp: 10275

Ion	Ratio	Lower	Upper
43	100		
58	24.7	26.6	39.8#



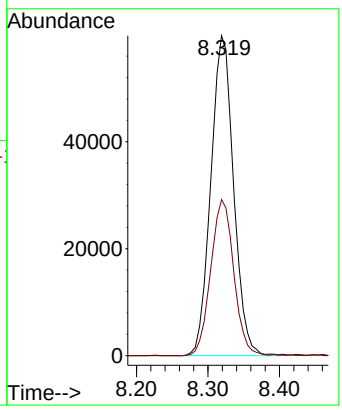


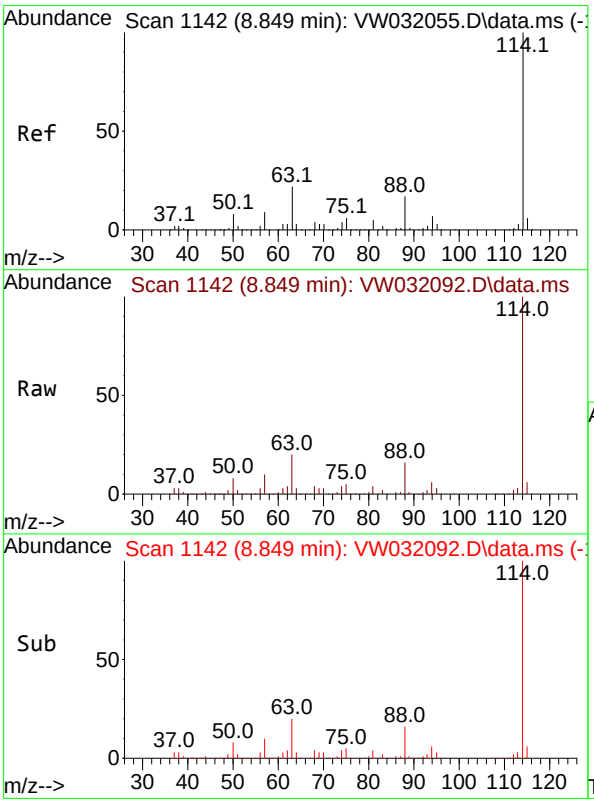
#33
1,2-Dichloroethane-d4
Concen: 65.563 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Tgt Ion: 65 Resp: 132296

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	102.4

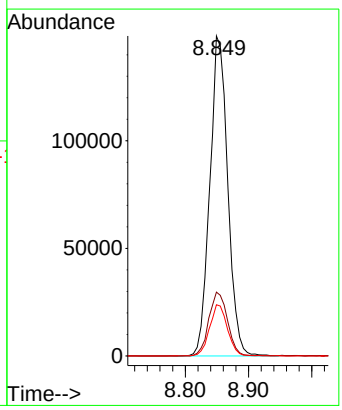


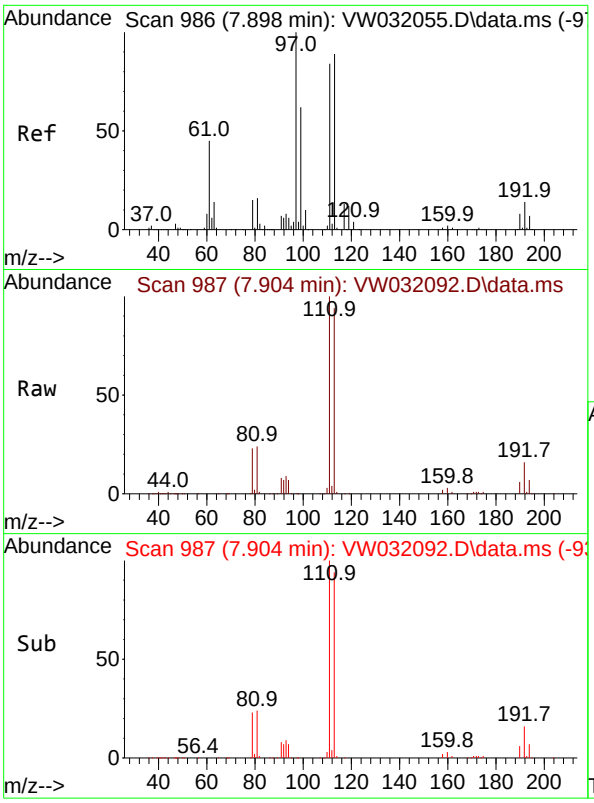


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Tgt Ion:114 Resp: 293162

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	43.0
88	16.0	0.0	33.8



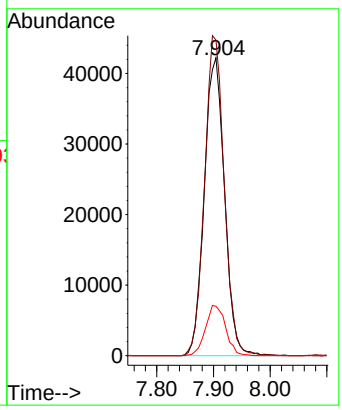


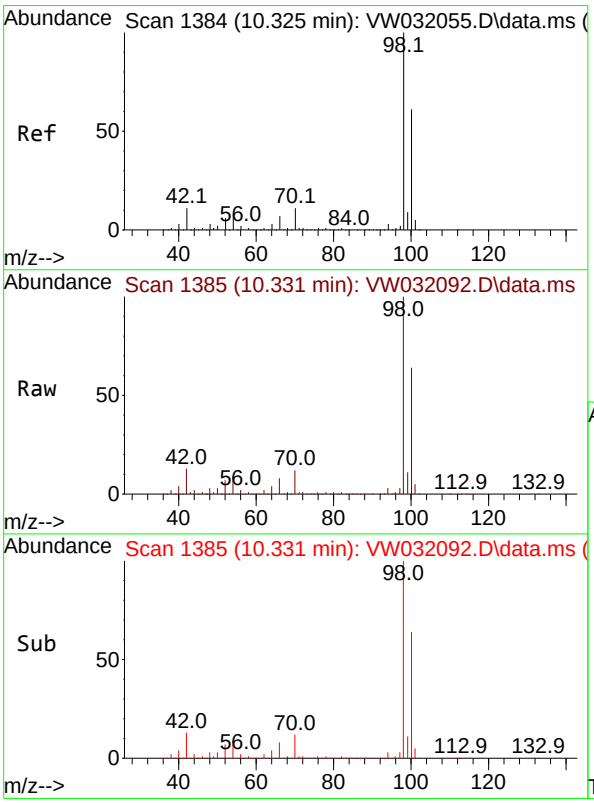
#35
Dibromofluoromethane
Concen: 55.334 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Tgt Ion:113 Resp: 104800

Ion	Ratio	Lower	Upper
113	100		
111	104.3	80.1	120.1
192	16.8	13.1	19.7

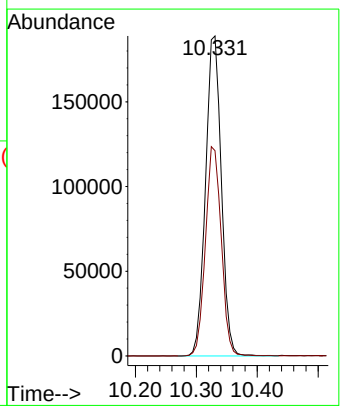


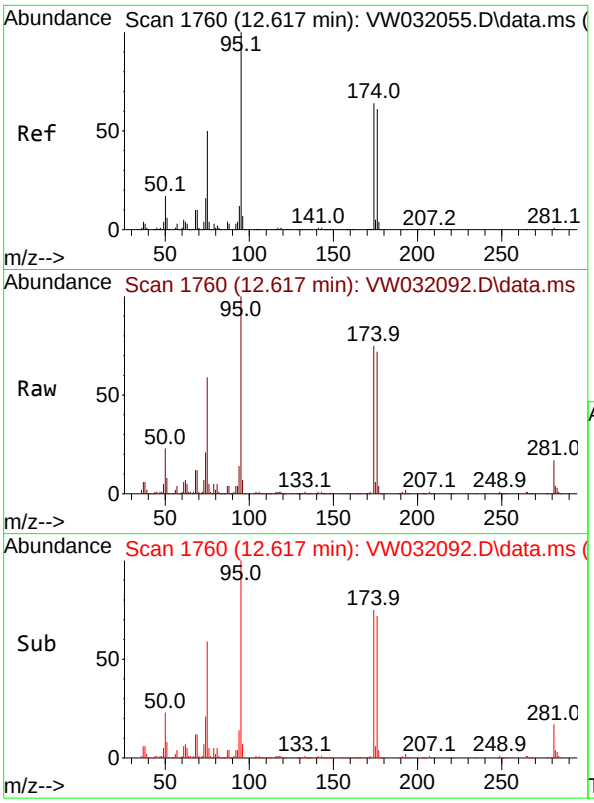


#50
Toluene-d8
Concen: 48.657 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Tgt Ion: 98 Resp: 340851

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.1	76.7



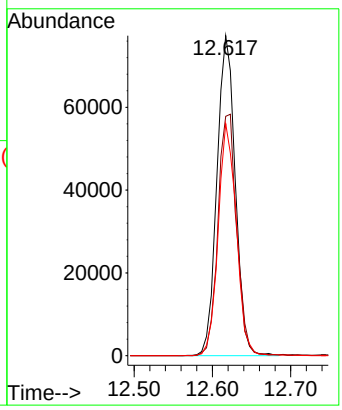


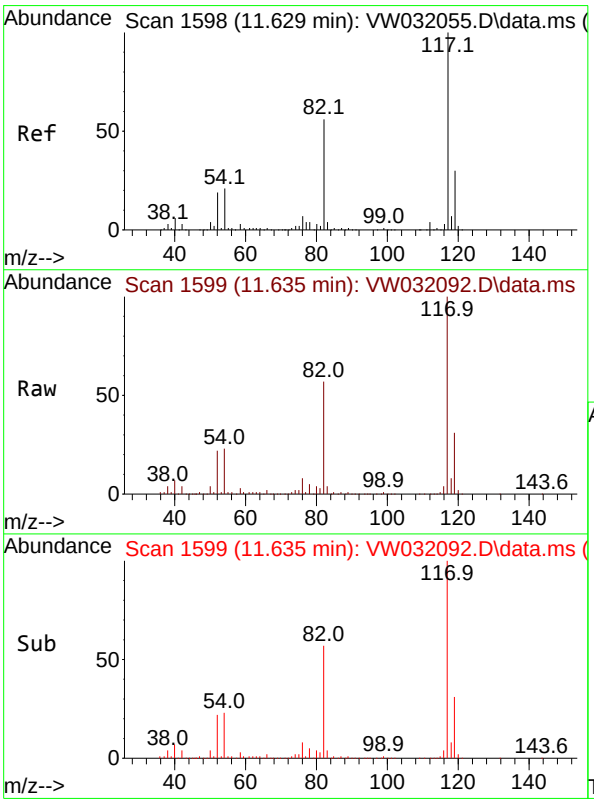
#62
4-Bromofluorobenzene
Concen: 48.840 ug/l
RT: 12.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Tgt Ion: 95 Resp: 126079

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	129.0
176	71.5	0.0	124.6

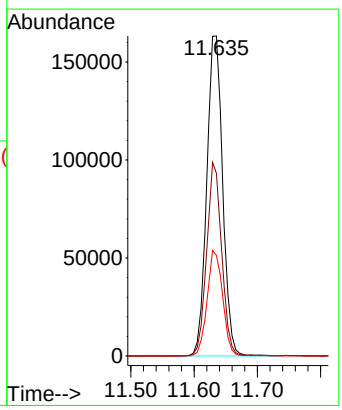


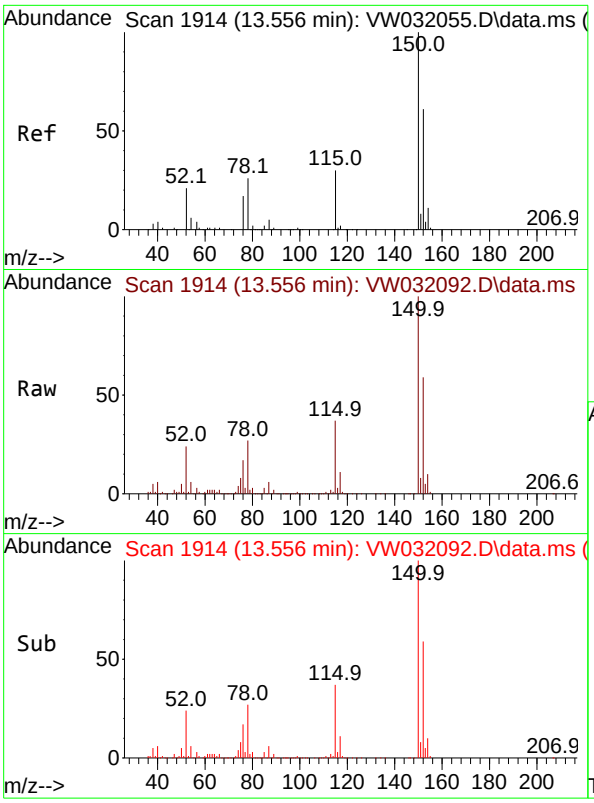


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Tgt Ion:117 Resp: 286216

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.0	67.4
119	31.4	24.2	36.4



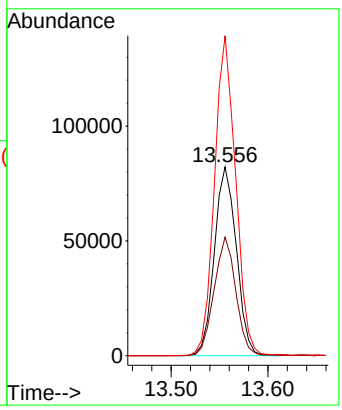


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032092.D
Acq: 14 Aug 2025 14:39

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Tgt Ion:152 Resp: 129964

Ion	Ratio	Lower	Upper
152	100		
115	62.2	32.6	97.8
150	163.1	0.0	359.4



Sample Results: **VW032092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032092.D
Acq On : 14 Aug 2025 14:39
Operator : SY/MD
Sample : Q2820-09
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
705R-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032092.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.997	15	18	32	rVB5	10249	29945	3.16%	0.542%
2	4.417	408	415	430	rBV3	3948	14028	1.48%	0.254%
3	4.960	497	504	513	rBV8	4778	17463	1.84%	0.316%
4	7.898	970	986	991	rBV	146738	361617	38.11%	6.547%
5	7.959	991	996	1010	rVB	202121	472733	49.82%	8.559%
6	8.319	1043	1055	1065	rBV	160938	363813	38.34%	6.587%
7	8.849	1131	1142	1154	rBV	355558	721951	76.09%	13.071%
8	10.325	1376	1384	1393	rBV	518359	948858	100.00%	17.179%
9	11.629	1590	1598	1610	rBV	540279	933153	98.34%	16.895%
10	12.617	1749	1760	1770	rBV2	437117	781526	82.36%	14.149%
11	13.507	1896	1906	1907	rBV9	6315	12006	1.27%	0.217%
12	13.556	1907	1914	1921	rVB	548951	849387	89.52%	15.378%
13	14.062	1992	1997	2001	rBV	9520	16925	1.78%	0.306%

Sum of corrected areas: 5523405

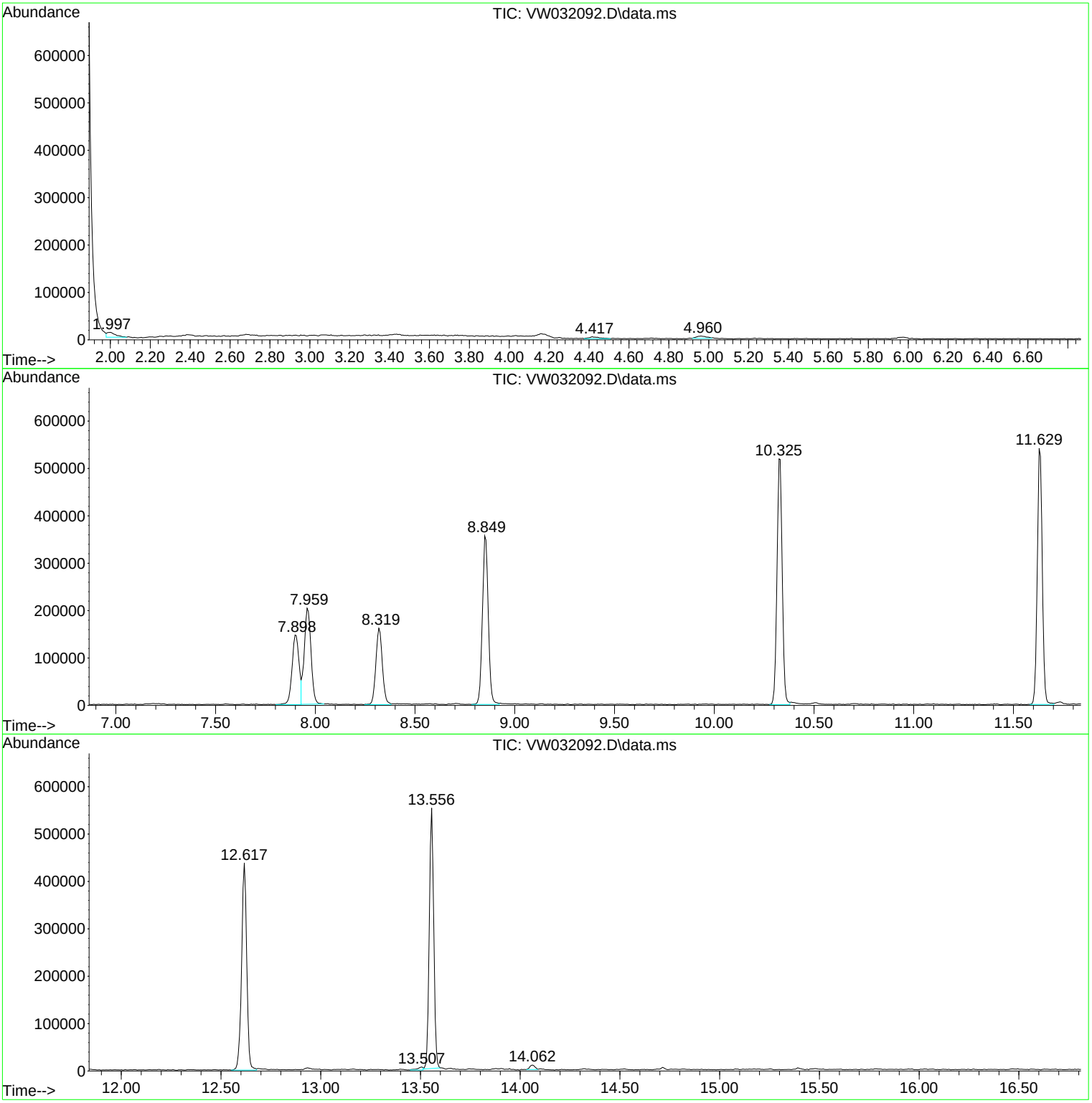
Sample Results: **VW032092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032092.D
Acq On : 14 Aug 2025 14:39
Operator : SY/MD
Sample : Q2820-09
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032092.D
Acq On : 14 Aug 2025 14:39
Operator : SY/MD
Sample : Q2820-09
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032092.D
Acq On : 14 Aug 2025 14:39
Operator : SY/MD
Sample : Q2820-09
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
705R-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032093.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-2	SDG No.:	Q2820
Lab Sample ID:	Q2820-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	48.4
Sample Wt/Vol:	5.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032093.D	1	08/14/25 15:01	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	7.70	U	2.20	7.70	9.60	ug/Kg
74-87-3	Chloromethane	4.80	U	2.20	4.80	9.60	ug/Kg
75-01-4	Vinyl Chloride	4.80	U	1.50	4.80	9.60	ug/Kg
74-83-9	Bromomethane	7.70	U	2.10	7.70	9.60	ug/Kg
75-00-3	Chloroethane	4.80	U	2.40	4.80	9.60	ug/Kg
75-69-4	Trichlorofluoromethane	7.70	U	2.30	7.70	9.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.80	U	2.00	4.80	9.60	ug/Kg
75-35-4	1,1-Dichloroethene	4.80	U	1.90	4.80	9.60	ug/Kg
67-64-1	Acetone	91.9		9.10	38.3	47.9	ug/Kg
75-15-0	Carbon Disulfide	6.60	J	2.00	7.70	9.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	4.80	U	1.40	4.80	9.60	ug/Kg
79-20-9	Methyl Acetate	7.70	U	3.00	7.70	9.60	ug/Kg
75-09-2	Methylene Chloride	15.3	U	6.80	15.3	19.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.80	U	1.60	4.80	9.60	ug/Kg
75-34-3	1,1-Dichloroethane	4.80	U	1.50	4.80	9.60	ug/Kg
110-82-7	Cyclohexane	4.80	U	1.50	4.80	9.60	ug/Kg
78-93-3	2-Butanone	38.3	U	12.5	38.3	47.9	ug/Kg
56-23-5	Carbon Tetrachloride	4.80	U	1.90	4.80	9.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	4.80	U	1.40	4.80	9.60	ug/Kg
74-97-5	Bromochloromethane	7.70	U	2.20	7.70	9.60	ug/Kg
67-66-3	Chloroform	7.70	U	1.60	7.70	9.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.80	U	1.80	4.80	9.60	ug/Kg
108-87-2	Methylcyclohexane	4.80	U	1.70	4.80	9.60	ug/Kg
71-43-2	Benzene	4.80	U	1.50	4.80	9.60	ug/Kg
107-06-2	1,2-Dichloroethane	4.80	U	1.50	4.80	9.60	ug/Kg
79-01-6	Trichloroethene	4.80	U	1.60	4.80	9.60	ug/Kg
78-87-5	1,2-Dichloropropane	4.80	U	1.70	4.80	9.60	ug/Kg
75-27-4	Bromodichloromethane	4.80	U	1.50	4.80	9.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	24.0	U	6.90	24.0	47.9	ug/Kg
108-88-3	Toluene	4.80	U	1.50	4.80	9.60	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-2	SDG No.:	Q2820
Lab Sample ID:	Q2820-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	48.4
Sample Wt/Vol:	5.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032093.D	1	08/14/25 15:01	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	4.80	U	1.20	4.80	9.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.80	U	1.20	4.80	9.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	4.80	U	1.80	4.80	9.60	ug/Kg
591-78-6	2-Hexanone	24.0	U	7.10	24.0	47.9	ug/Kg
124-48-1	Dibromochloromethane	4.80	U	1.70	4.80	9.60	ug/Kg
106-93-4	1,2-Dibromoethane	4.80	U	1.70	4.80	9.60	ug/Kg
127-18-4	Tetrachloroethene	4.80	U	2.00	4.80	9.60	ug/Kg
108-90-7	Chlorobenzene	4.80	U	1.70	4.80	9.60	ug/Kg
100-41-4	Ethyl Benzene	4.80	U	1.30	4.80	9.60	ug/Kg
179601-23-1	m/p-Xylenes	9.60	U	2.40	9.60	19.2	ug/Kg
95-47-6	o-Xylene	4.80	U	1.60	4.80	9.60	ug/Kg
100-42-5	Styrene	4.80	U	1.40	4.80	9.60	ug/Kg
75-25-2	Bromoform	4.80	U	1.60	4.80	9.60	ug/Kg
98-82-8	Isopropylbenzene	4.80	U	1.50	4.80	9.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4.80	U	2.30	4.80	9.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.80	U	3.30	4.80	9.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.80	U	3.00	4.80	9.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	4.80	U	2.80	4.80	9.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.70	U	3.50	7.70	9.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	7.70	U	5.70	7.70	9.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	7.70	U	6.10	7.70	9.60	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.4		71 - 136		119%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		78 - 119		113%	SPK: 50
2037-26-5	Toluene-d8	50.1		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		79 - 119		87%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	7.965				
540-36-3	1,4-Difluorobenzene	266000	8.849				
3114-55-4	Chlorobenzene-d5	258000	11.636				
3855-82-1	1,4-Dichlorobenzene-d4	103000	13.556				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-2	SDG No.:	Q2820
Lab Sample ID:	Q2820-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	48.4
Sample Wt/Vol:	5.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032093.D	1	08/14/25 15:01	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032093.D
Acq On : 14 Aug 2025 15:01
Operator : SY/MD
Sample : Q2820-10
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Quant Time: Aug 18 03:53:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	131941	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	266004	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	258211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	103366	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	113358	59.405	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 118.800%			
35) Dibromofluoromethane	7.904	113	97310	56.625	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 113.260%			
50) Toluene-d8	10.325	98	318544	50.116	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.240%			
62) 4-Bromofluorobenzene	12.617	95	102332	43.688	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 87.380%			
Target Compounds						Qvalue
16) Acetone	4.167	43	21181	47.942	ug/l	97
17) Carbon Disulfide	4.430	76	14886	3.466	ug/l	98

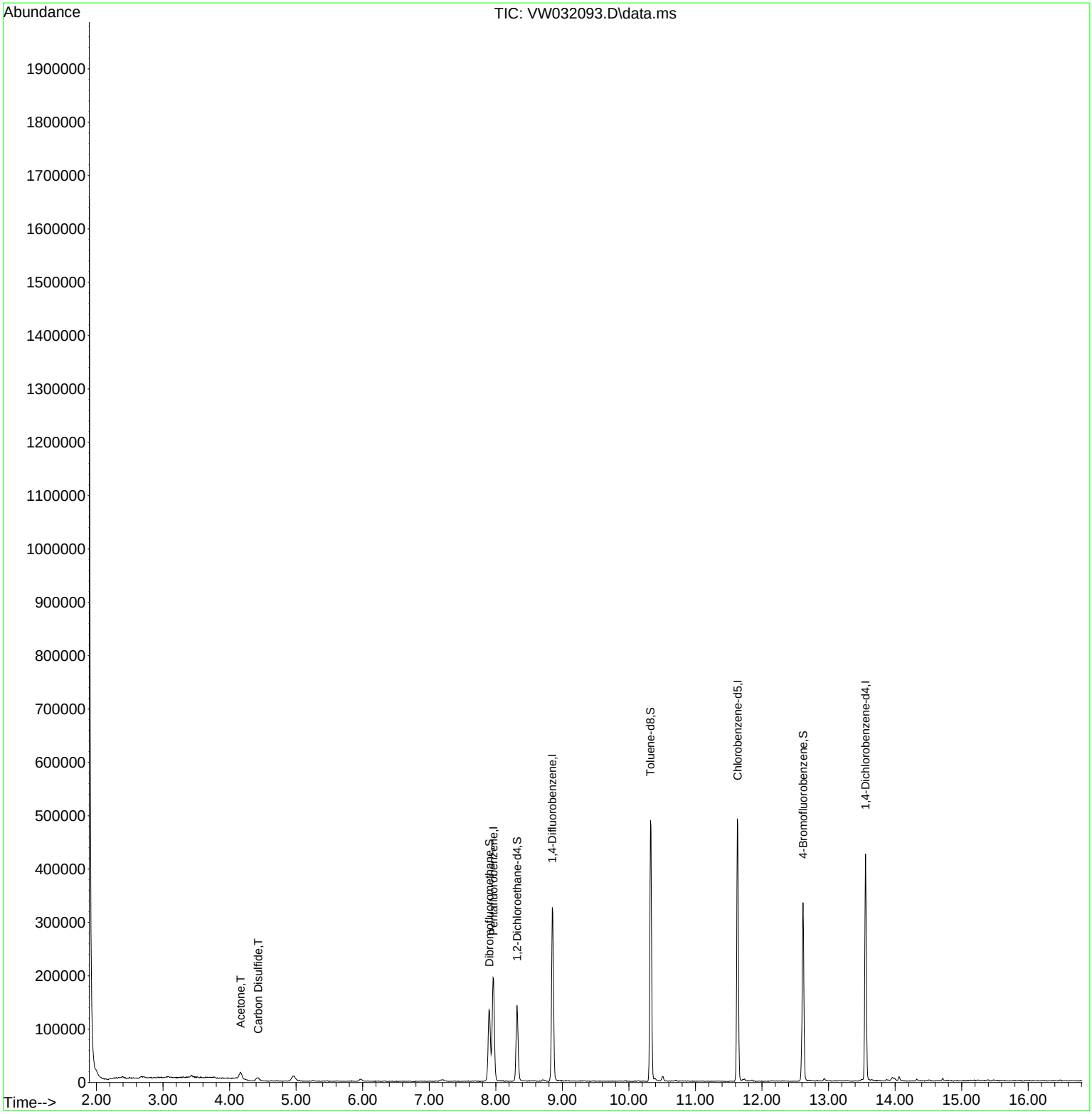
(#) = qualifier out of range (m) = manual integration (+) = signals summed

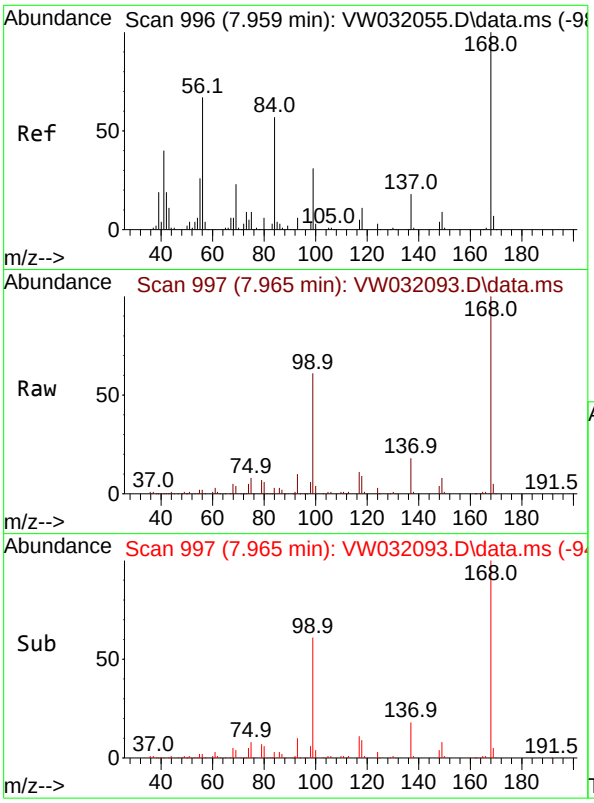
Sample Results: **VW032093.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032093.D
Acq On : 14 Aug 2025 15:01
Operator : SY/MD
Sample : Q2820-10
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Quant Time: Aug 18 03:53:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



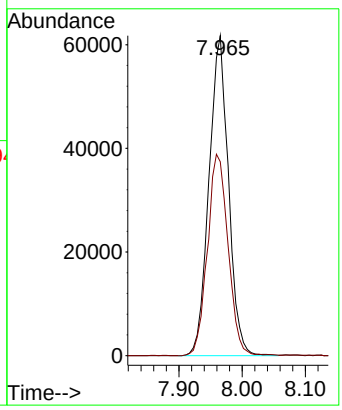


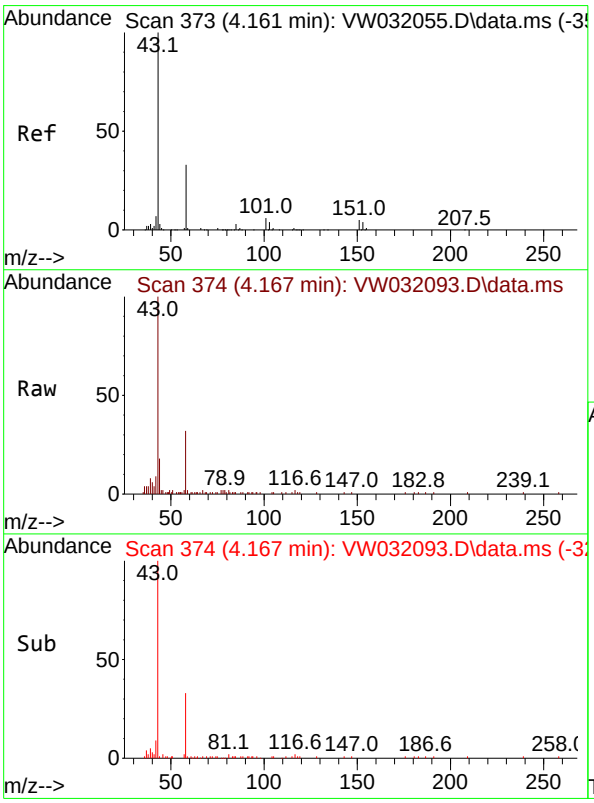
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Tgt Ion:168 Resp: 131941

Ion	Ratio	Lower	Upper
168	100		
99	60.6	56.0	84.0

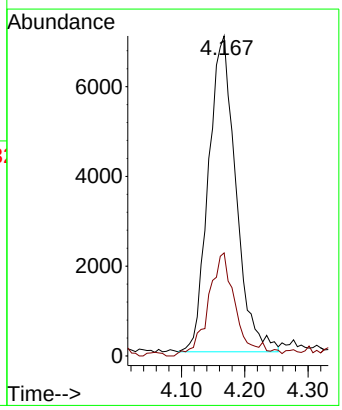


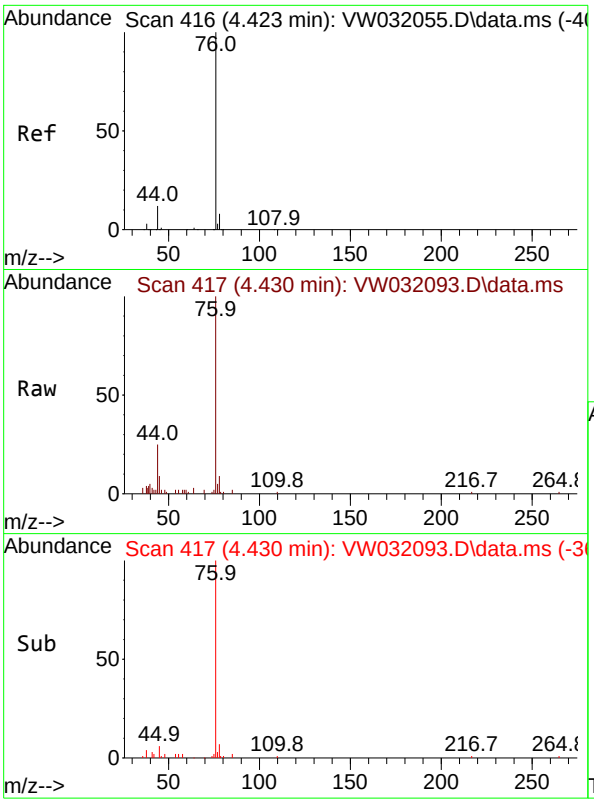


#16
Acetone
Concen: 47.942 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Tgt Ion: 43 Resp: 21181

Ion	Ratio	Lower	Upper
43	100		
58	31.8	26.6	39.8



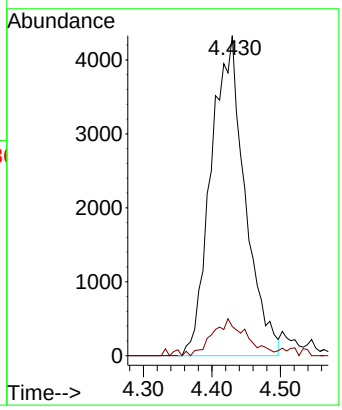


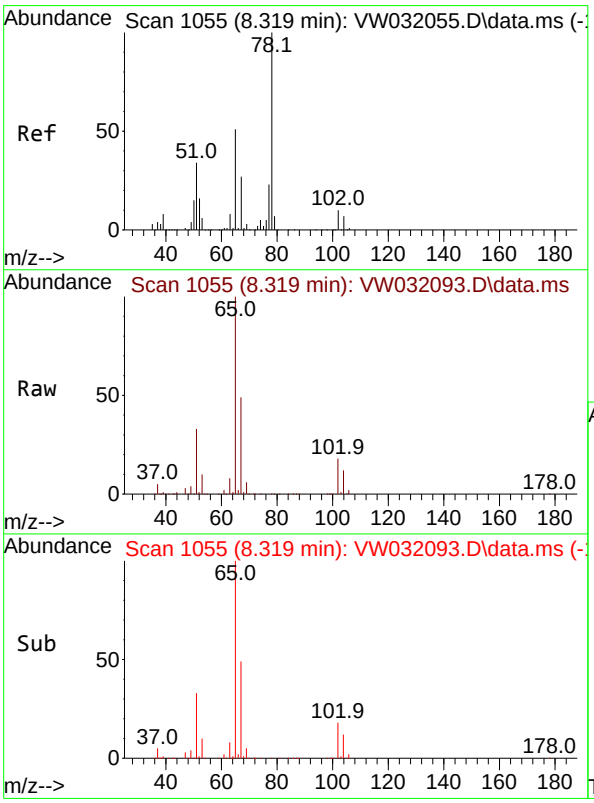
#17
Carbon Disulfide
Concen: 3.466 ug/l
RT: 4.430 min Scan# 4
Delta R.T. 0.006 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Tgt Ion: 76 Resp: 14886

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.4	9.6

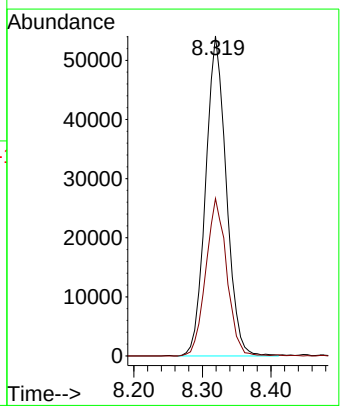


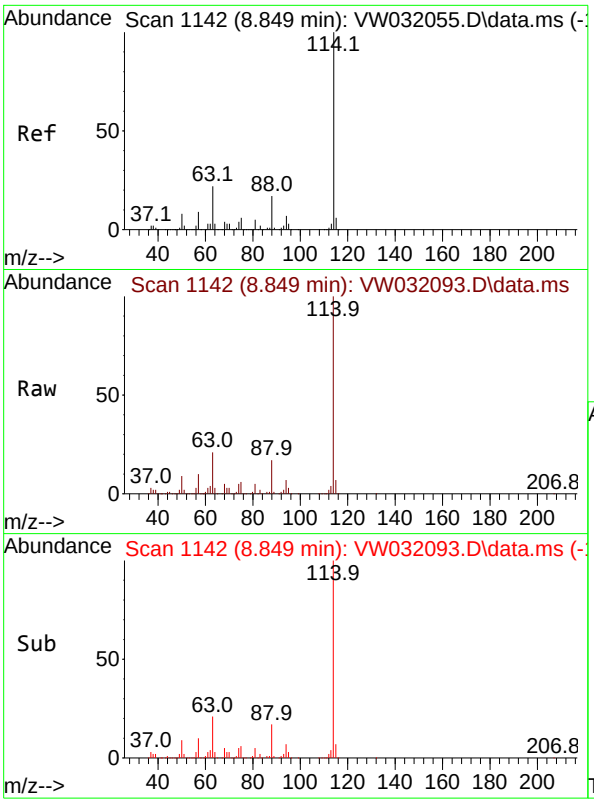


#33
1,2-Dichloroethane-d4
Concen: 59.405 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Tgt Ion: 65 Resp: 113358

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	102.4



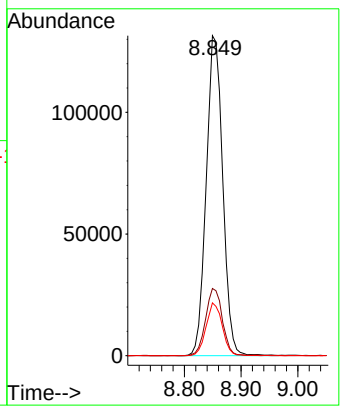


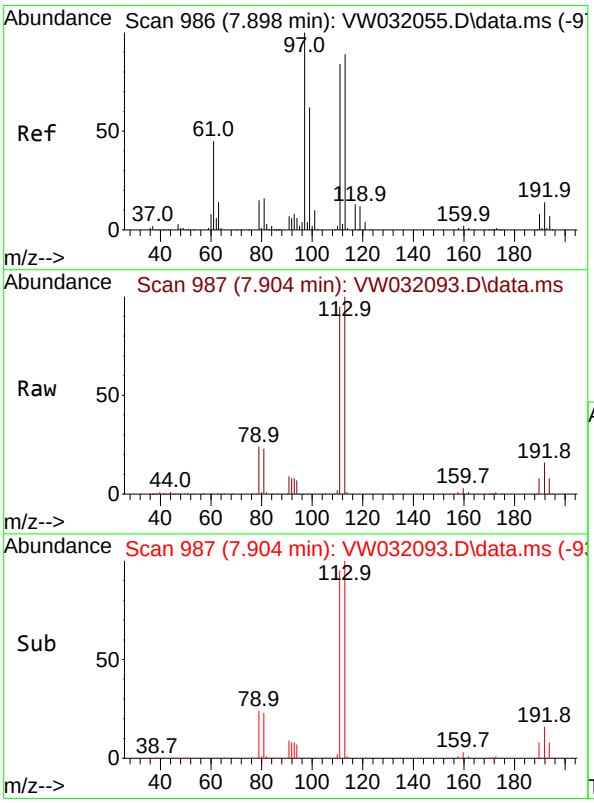
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Tgt Ion:114 Resp: 266004

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.0
88	16.5	0.0	33.8

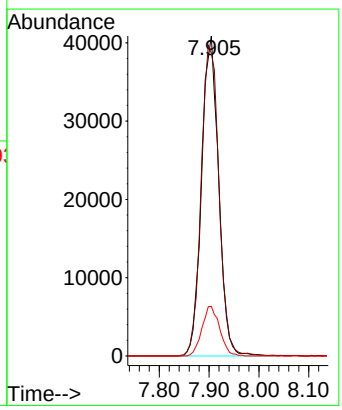


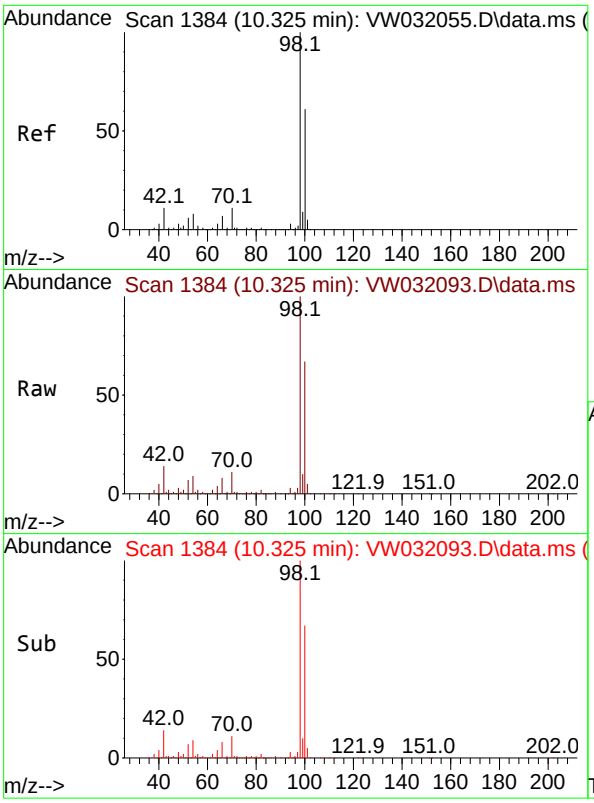


#35
Dibromofluoromethane
Concen: 56.625 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Tgt Ion:113 Resp: 97310

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.1	120.1
192	16.1	13.1	19.7



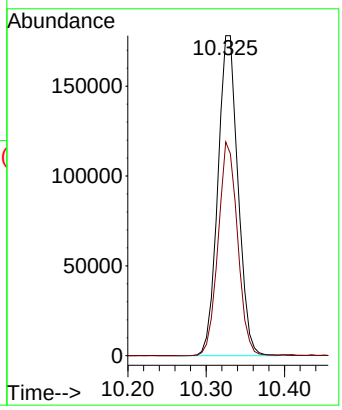


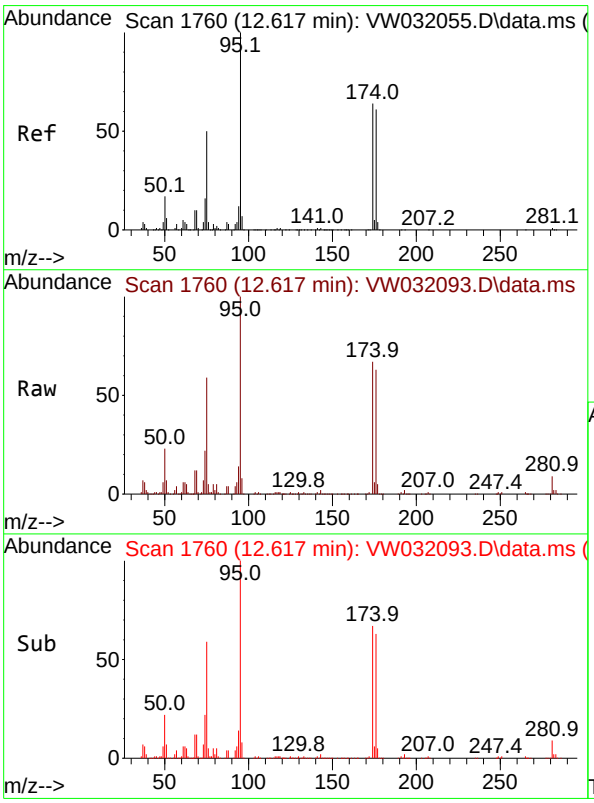
#50
Toluene-d8
Concen: 50.116 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Tgt Ion: 98 Resp: 318544

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.1	76.7

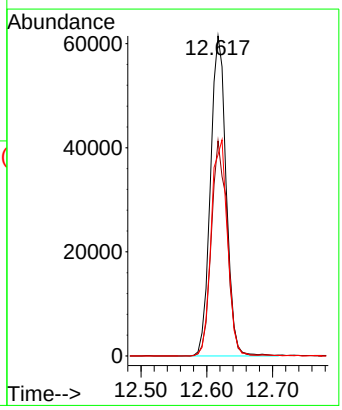


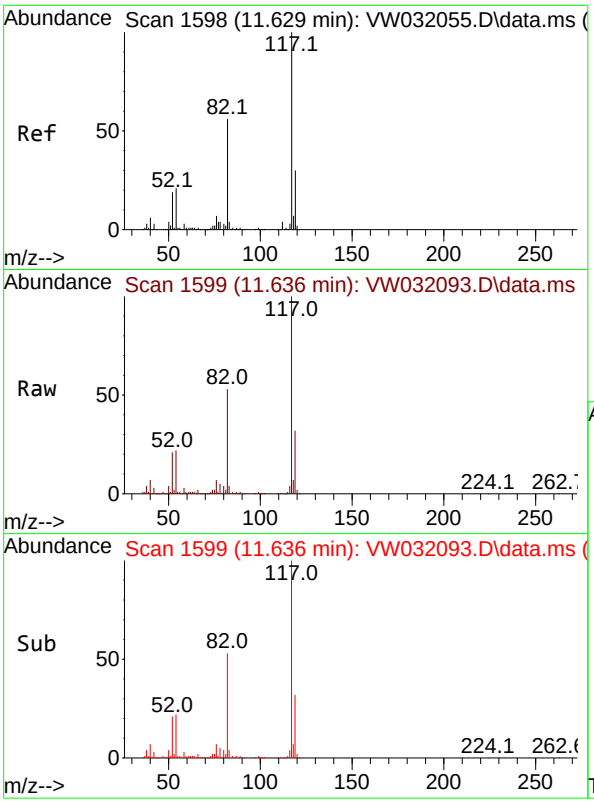


#62
4-Bromofluorobenzene
Concen: 43.688 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Tgt Ion: 95 Resp: 102332

Ion	Ratio	Lower	Upper
95	100		
174	67.6	0.0	129.0
176	69.9	0.0	124.6



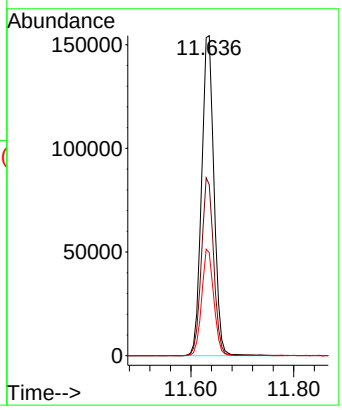


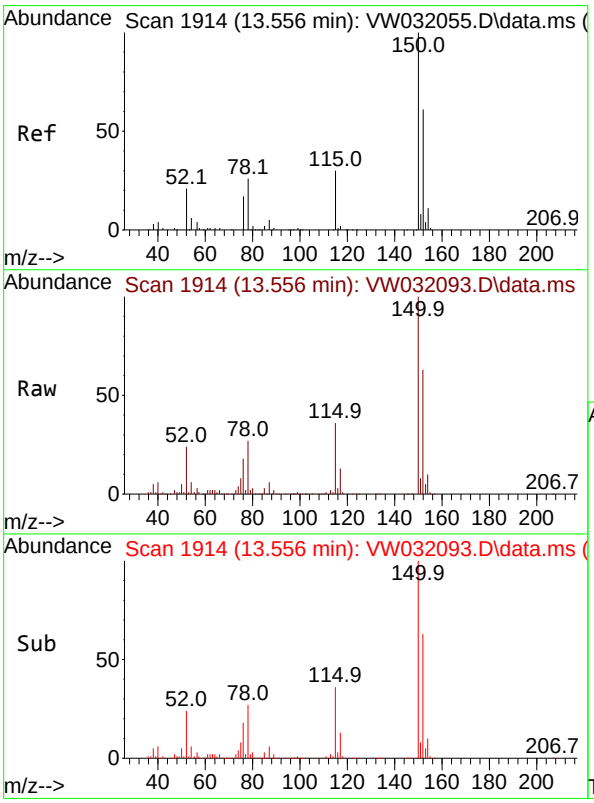
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.636 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Tgt Ion:117 Resp: 258211

Ion	Ratio	Lower	Upper
117	100		
82	53.5	45.0	67.4
119	32.2	24.2	36.4

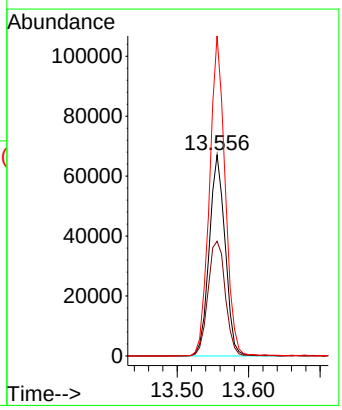




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032093.D
Acq: 14 Aug 2025 15:01

Tgt Ion:152 Resp: 103366

Ion	Ratio	Lower	Upper
152	100		
115	62.6	32.6	97.8
150	156.3	0.0	359.4



Sample Results: **VW032093.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032093.D
Acq On : 14 Aug 2025 15:01
Operator : SY/MD
Sample : Q2820-10
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032093.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	366	373	382	rVB	13066	38715	4.41%	0.796%
2	4.430	404	417	433	rVB2	6359	26080	2.97%	0.536%
3	4.960	493	504	514	rBV2	9098	36581	4.17%	0.752%
4	7.898	971	986	991	rBV	134867	334886	38.19%	6.888%
5	7.959	991	996	1009	rVB	193256	447636	51.05%	9.207%
6	8.319	1044	1055	1067	rBV	142235	309174	35.26%	6.359%
7	8.849	1133	1142	1154	rBV	326229	670744	76.49%	13.795%
8	10.325	1375	1384	1392	rBV	489777	876932	100.00%	18.036%
9	10.502	1406	1413	1421	rVB5	8260	17918	2.04%	0.369%
10	11.629	1591	1598	1608	rBV	492396	832065	94.88%	17.113%
11	12.617	1749	1760	1770	rBV3	334906	610770	69.65%	12.562%
12	13.556	1907	1914	1922	rVB	423143	660663	75.34%	13.588%

Sum of corrected areas: 4862164

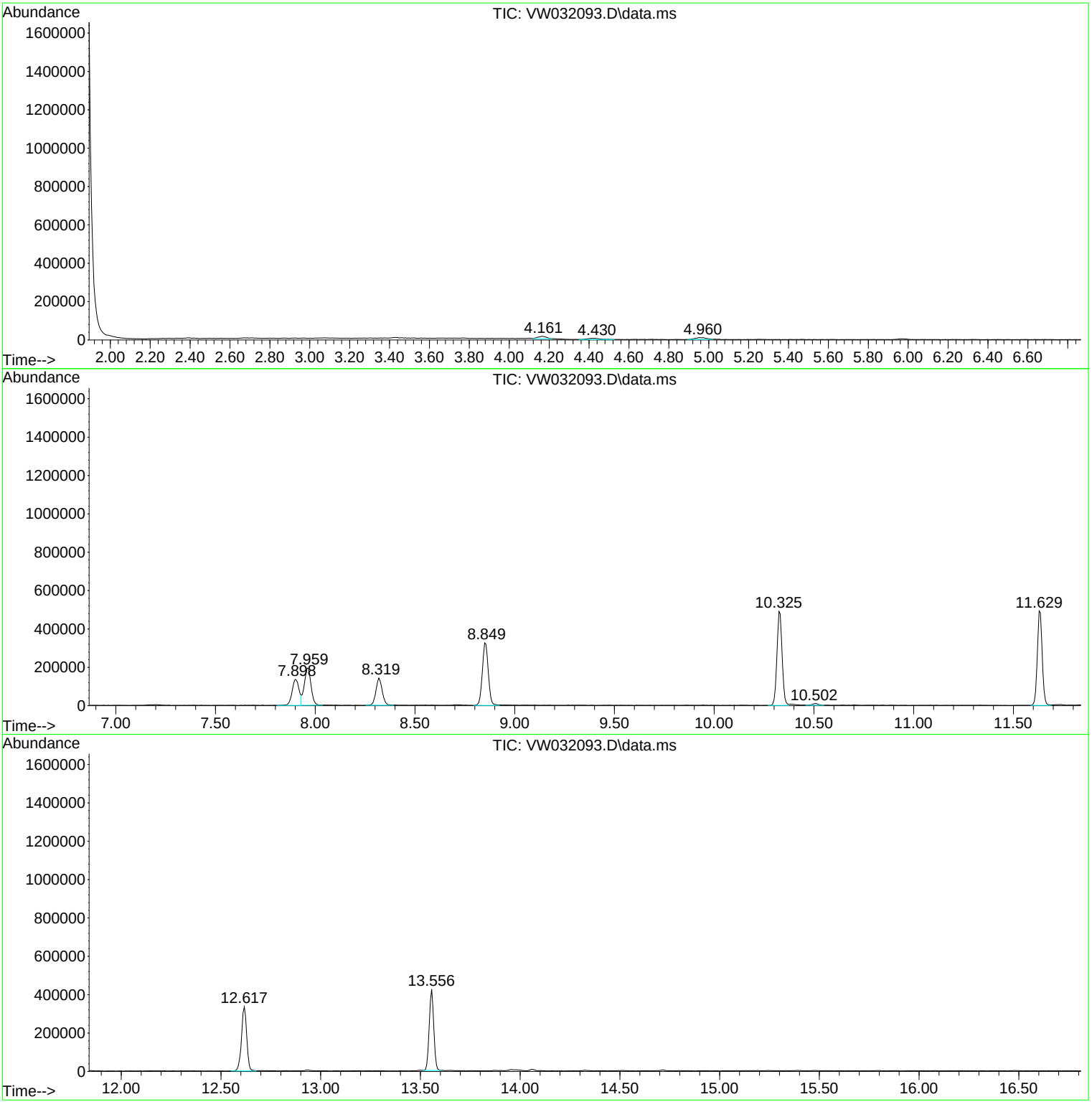
Sample Results: **VW032093.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032093.D
Acq On : 14 Aug 2025 15:01
Operator : SY/MD
Sample : Q2820-10
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032093.D
Acq On : 14 Aug 2025 15:01
Operator : SY/MD
Sample : Q2820-10
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032093.D
Acq On : 14 Aug 2025 15:01
Operator : SY/MD
Sample : Q2820-10
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOIL-DUP-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10PC-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.4
Sample Wt/Vol:	6.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032094.D	1	08/14/25 15:24	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.40	U	0.97	3.40	4.20	ug/Kg
74-87-3	Chloromethane	2.10	U	0.97	2.10	4.20	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	0.67	2.10	4.20	ug/Kg
74-83-9	Bromomethane	3.40	U	0.91	3.40	4.20	ug/Kg
75-00-3	Chloroethane	2.10	U	1.10	2.10	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	3.40	U	1.00	3.40	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	U	0.90	2.10	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	0.85	2.10	4.20	ug/Kg
67-64-1	Acetone	17.0	U	4.00	17.0	21.2	ug/Kg
75-15-0	Carbon Disulfide	3.40	U	0.90	3.40	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.10	U	0.62	2.10	4.20	ug/Kg
79-20-9	Methyl Acetate	3.40	U	1.30	3.40	4.20	ug/Kg
75-09-2	Methylene Chloride	6.80	U	3.00	6.80	8.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.10	U	0.73	2.10	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	2.10	U	0.68	2.10	4.20	ug/Kg
110-82-7	Cyclohexane	2.10	U	0.67	2.10	4.20	ug/Kg
78-93-3	2-Butanone	17.0	U	5.60	17.0	21.2	ug/Kg
56-23-5	Carbon Tetrachloride	2.10	U	0.82	2.10	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.10	U	0.64	2.10	4.20	ug/Kg
74-97-5	Bromochloromethane	3.40	U	0.98	3.40	4.20	ug/Kg
67-66-3	Chloroform	3.40	U	0.71	3.40	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	0.79	2.10	4.20	ug/Kg
108-87-2	Methylcyclohexane	2.10	U	0.77	2.10	4.20	ug/Kg
71-43-2	Benzene	2.10	U	0.67	2.10	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	2.10	U	0.67	2.10	4.20	ug/Kg
79-01-6	Trichloroethene	2.10	U	0.69	2.10	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	2.10	U	0.77	2.10	4.20	ug/Kg
75-27-4	Bromodichloromethane	2.10	U	0.66	2.10	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.6	U	3.00	10.6	21.2	ug/Kg
108-88-3	Toluene	2.10	U	0.66	2.10	4.20	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10PC-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.4
Sample Wt/Vol:	6.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032094.D	1	08/14/25 15:24	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.10	U	0.55	2.10	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.10	U	0.53	2.10	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.10	U	0.78	2.10	4.20	ug/Kg
591-78-6	2-Hexanone	10.6	U	3.10	10.6	21.2	ug/Kg
124-48-1	Dibromochloromethane	2.10	U	0.74	2.10	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	2.10	U	0.75	2.10	4.20	ug/Kg
127-18-4	Tetrachloroethene	2.10	U	0.89	2.10	4.20	ug/Kg
108-90-7	Chlorobenzene	2.10	U	0.77	2.10	4.20	ug/Kg
100-41-4	Ethyl Benzene	2.10	U	0.57	2.10	4.20	ug/Kg
179601-23-1	m/p-Xylenes	4.20	U	1.10	4.20	8.50	ug/Kg
95-47-6	o-Xylene	2.10	U	0.70	2.10	4.20	ug/Kg
100-42-5	Styrene	2.10	U	0.60	2.10	4.20	ug/Kg
75-25-2	Bromoform	2.10	U	0.73	2.10	4.20	ug/Kg
98-82-8	Isopropylbenzene	2.10	U	0.66	2.10	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.10	U	1.00	2.10	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	1.50	2.10	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	1.30	2.10	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	U	1.20	2.10	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.40	U	1.60	3.40	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.40	U	2.50	3.40	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	2.70	3.40	4.20	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.8		71 - 136		120%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		78 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	50.3		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		79 - 119		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	137000	7.959				
540-36-3	1,4-Difluorobenzene	286000	8.849				
3114-55-4	Chlorobenzene-d5	284000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.556				

Raw Data: **VW032094.D**

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10PC-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.4
Sample Wt/Vol:	6.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032094.D	1	08/14/25 15:24	VW081425

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

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

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

Sample Results: **VW032094.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032094.D
Acq On : 14 Aug 2025 15:24
Operator : SY/MD
Sample : Q2820-11
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Quant Time: Aug 18 03:53:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	137313	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	286341	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	284239	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	145639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	118763	59.802	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 119.600%			
35) Dibromofluoromethane	7.898	113	102258	55.278	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.560%			
50) Toluene-d8	10.325	98	343997	50.276	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.560%			
62) 4-Bromofluorobenzene	12.617	95	132784	52.662	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 105.320%			

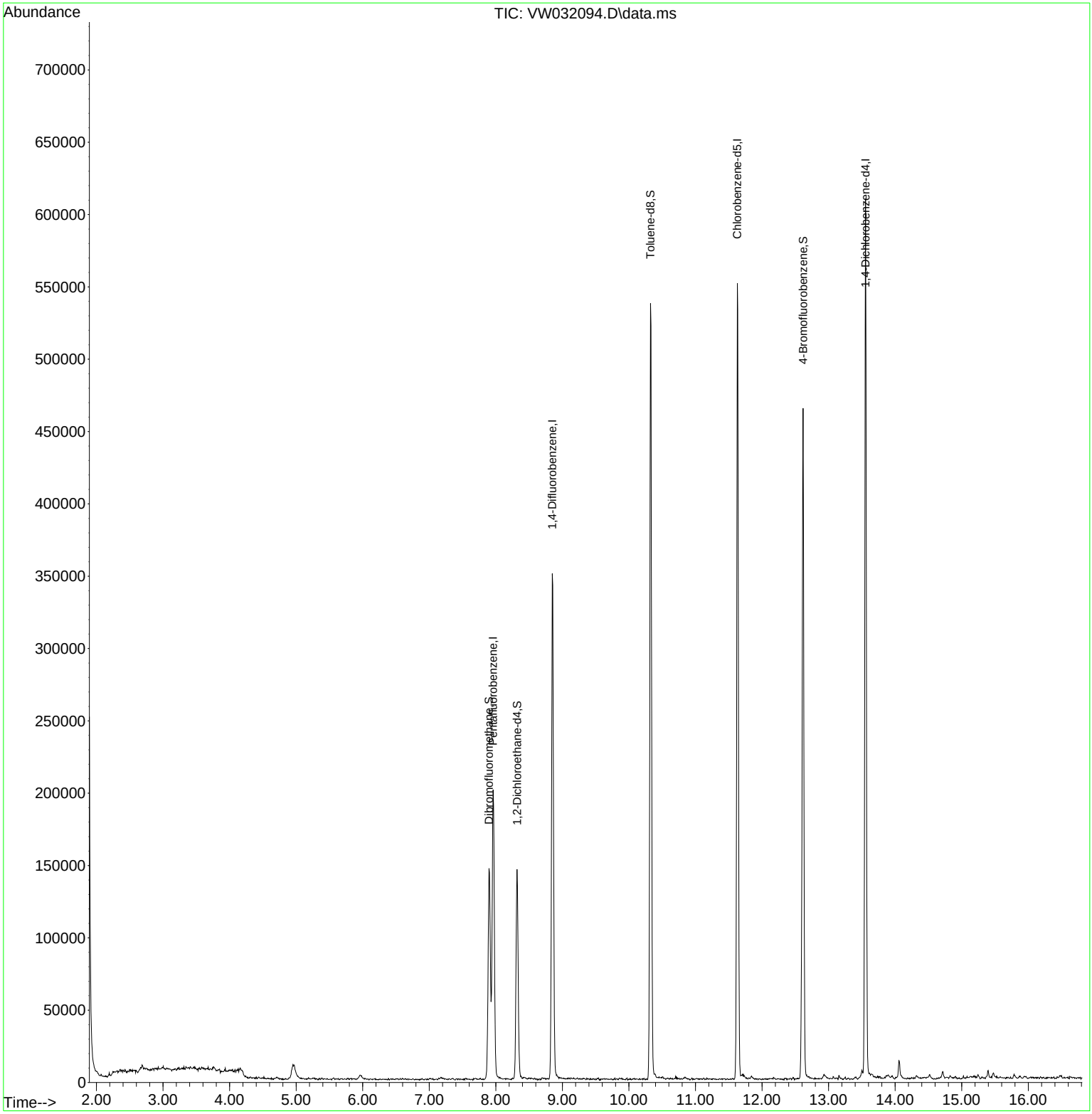
Target Compounds Qvalue

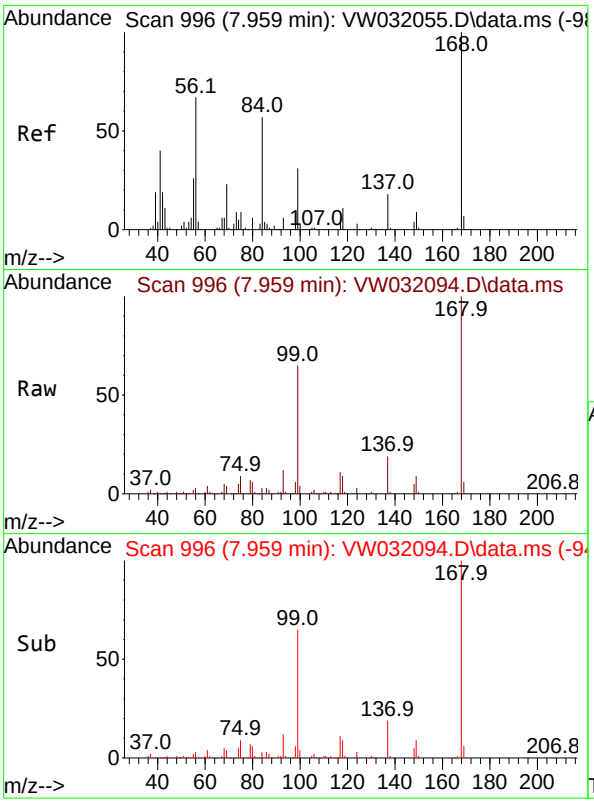
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032094.D
Acq On : 14 Aug 2025 15:24
Operator : SY/MD
Sample : Q2820-11
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Quant Time: Aug 18 03:53:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



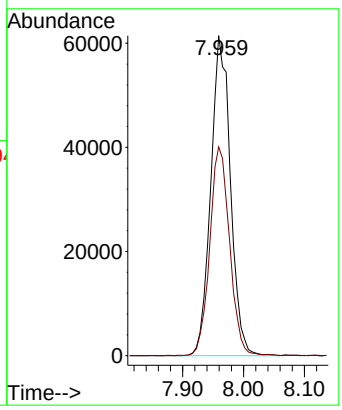


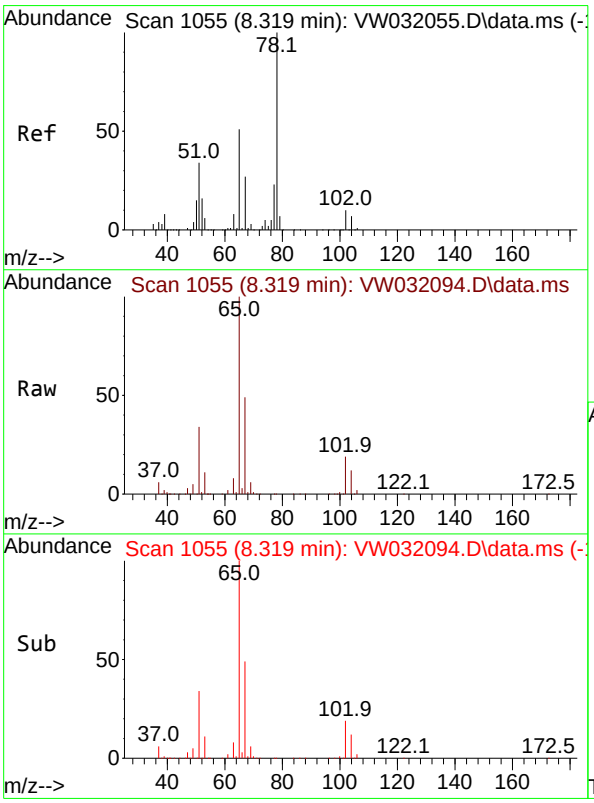
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Tgt Ion:168 Resp: 137313

Ion	Ratio	Lower	Upper
168	100		
99	65.1	56.0	84.0

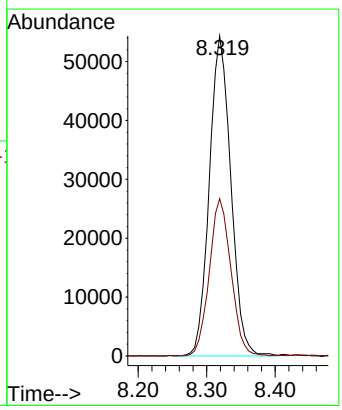


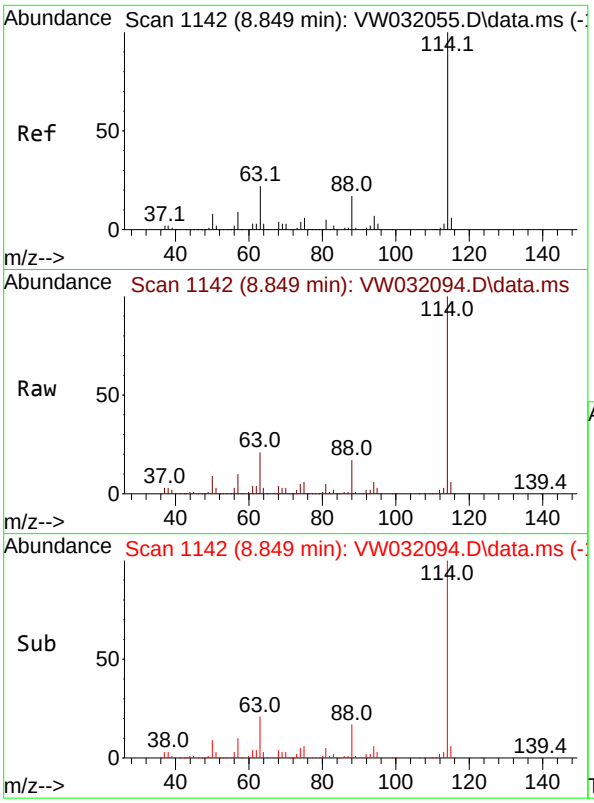


#33
1,2-Dichloroethane-d4
Concen: 59.802 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Tgt Ion: 65 Resp: 118763

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	102.4



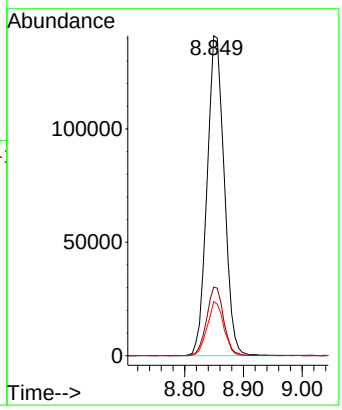


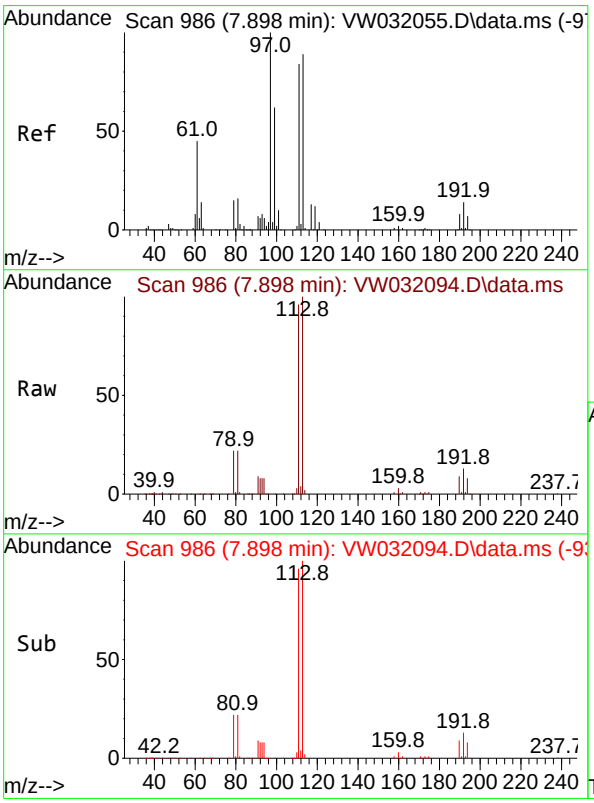
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Tgt Ion:114 Resp: 286341

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	43.0
88	16.9	0.0	33.8

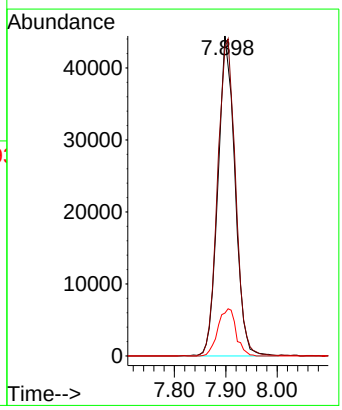


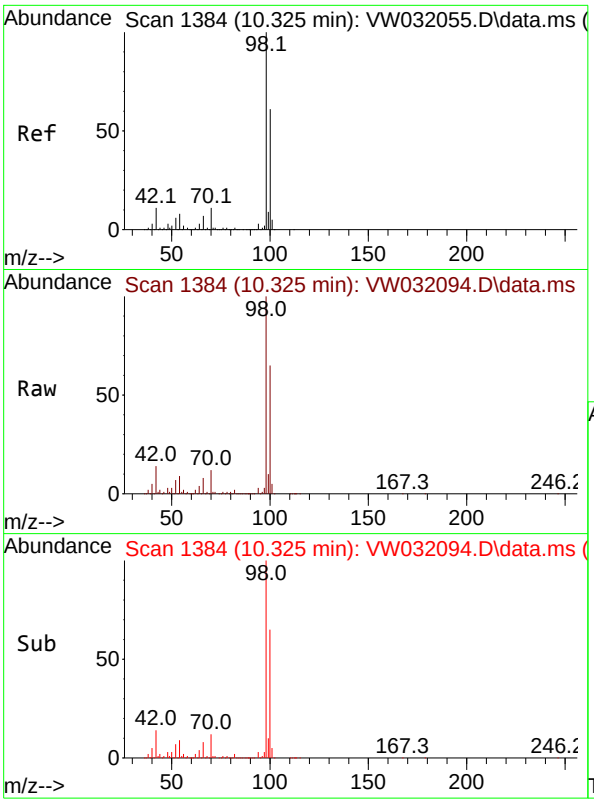


#35
Dibromofluoromethane
Concen: 55.278 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Tgt Ion:113 Resp: 102258

Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.1	120.1
192	15.8	13.1	19.7



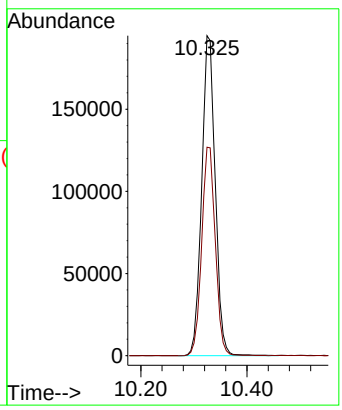


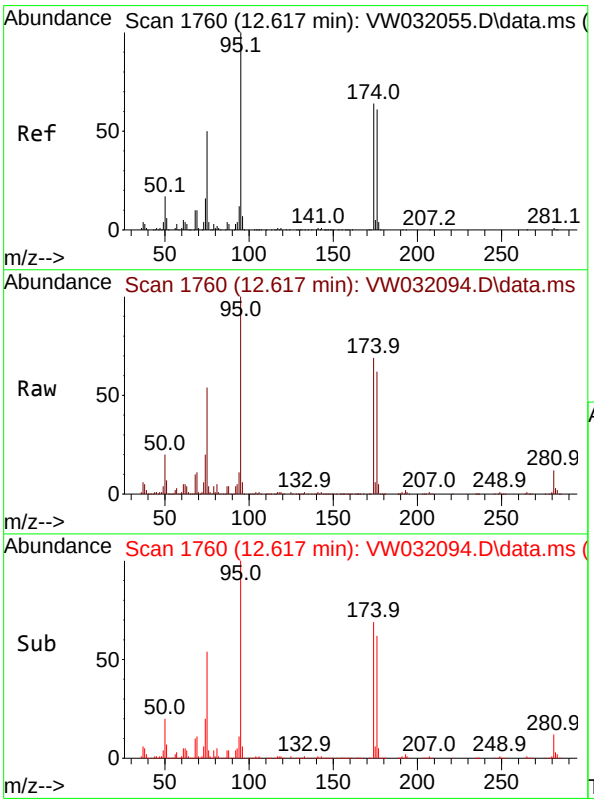
#50
Toluene-d8
Concen: 50.276 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Tgt Ion: 98 Resp: 343997

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.1	76.7

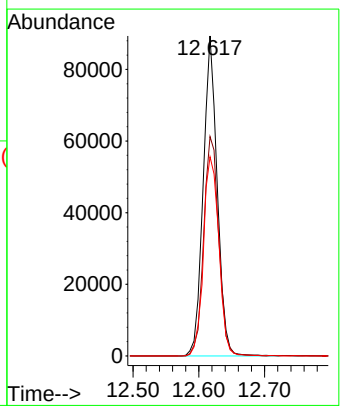


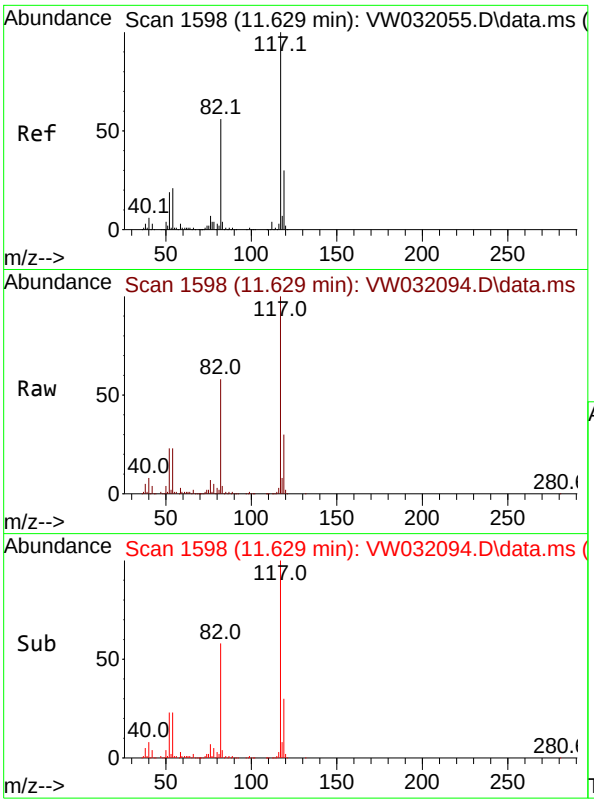


#62
4-Bromofluorobenzene
Concen: 52.662 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Tgt Ion: 95 Resp: 132784

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	129.0
176	68.2	0.0	124.6



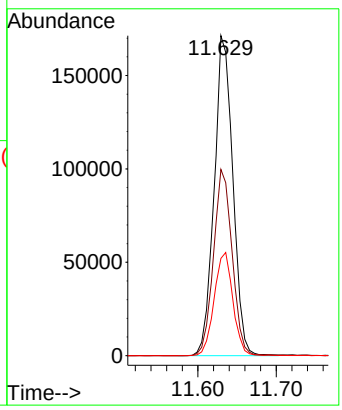


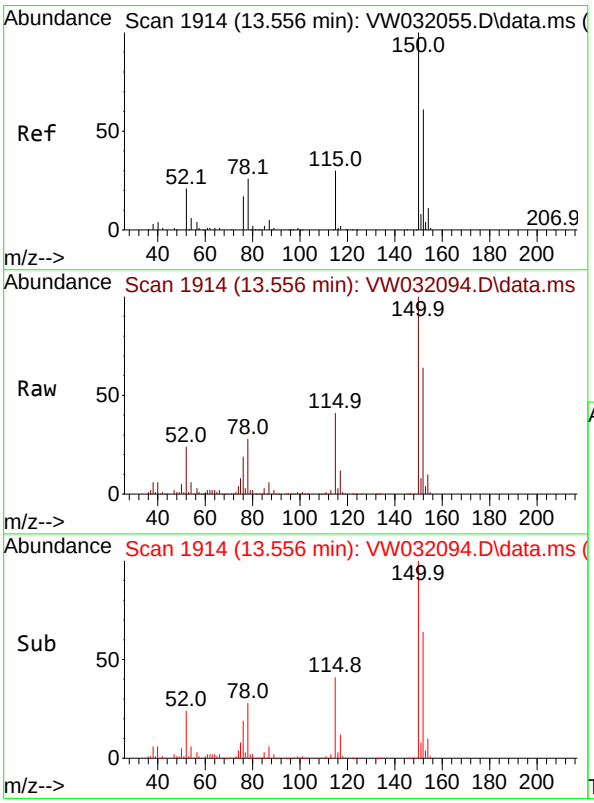
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Tgt Ion:117 Resp: 284239

Ion	Ratio	Lower	Upper
117	100		
82	58.2	45.0	67.4
119	30.4	24.2	36.4

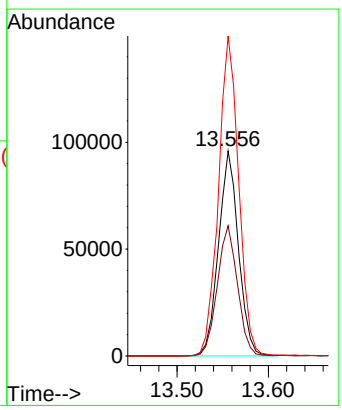




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032094.D
Acq: 14 Aug 2025 15:24

Tgt Ion:152 Resp: 145639

Ion	Ratio	Lower	Upper
152	100		
115	64.5	32.6	97.8
150	159.1	0.0	359.4



Sample Results: **VW032094.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032094.D
Acq On : 14 Aug 2025 15:24
Operator : SY/MD
Sample : Q2820-11
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032094.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	494	503	504	rBV2	9234	17630	1.84%	0.316%
2	7.898	975	986	991	rBV2	145708	349667	36.57%	6.275%
3	7.959	991	996	1009	rVB	198936	454955	47.59%	8.165%
4	8.319	1046	1055	1064	rBV	144910	320801	33.55%	5.757%
5	8.849	1132	1142	1156	rBV	349507	712963	74.57%	12.795%
6	10.325	1377	1384	1393	rBV	536628	955758	99.97%	17.153%
7	11.629	1590	1598	1606	rBV	550467	936044	97.90%	16.799%
8	12.617	1750	1760	1773	rBV2	463528	825407	86.33%	14.813%
9	13.501	1894	1905	1907	rBV7	6340	12748	1.33%	0.229%
10	13.556	1907	1914	1922	rVB	605335	956074	100.00%	17.158%
11	14.056	1991	1996	2004	rBV	11728	19776	2.07%	0.355%
12	15.397	2209	2216	2220	rBV7	5761	10236	1.07%	0.184%

Sum of corrected areas: 5572059

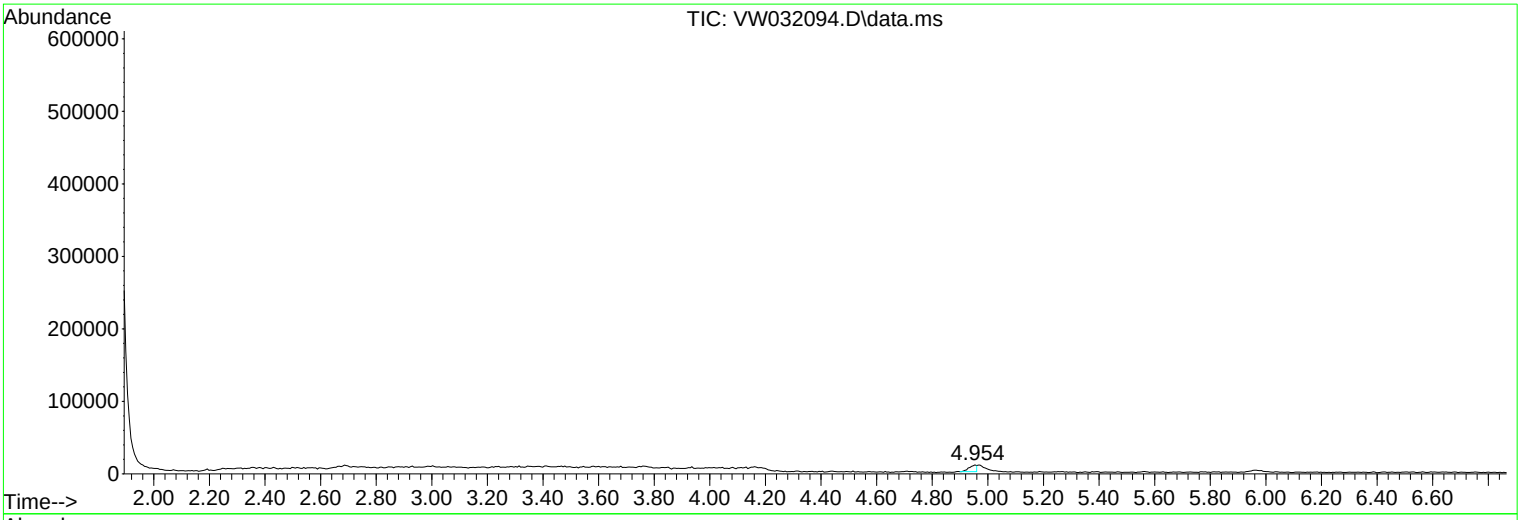
Sample Results: **VW032094.D**

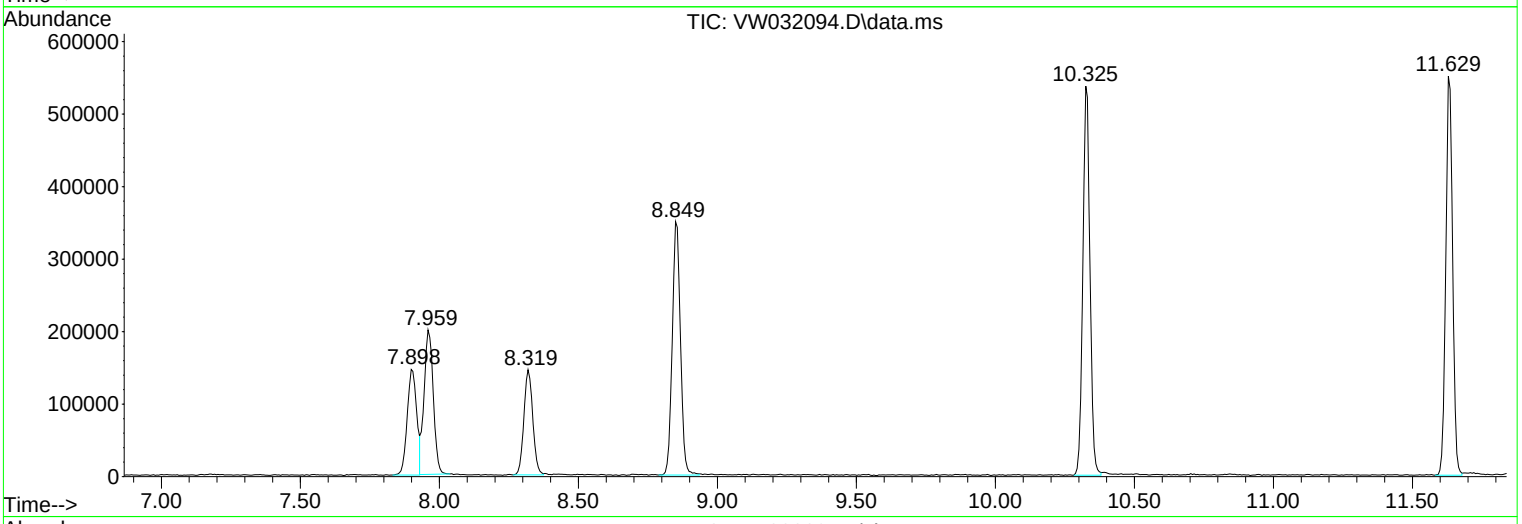
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032094.D
Acq On : 14 Aug 2025 15:24
Operator : SY/MD
Sample : Q2820-11
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

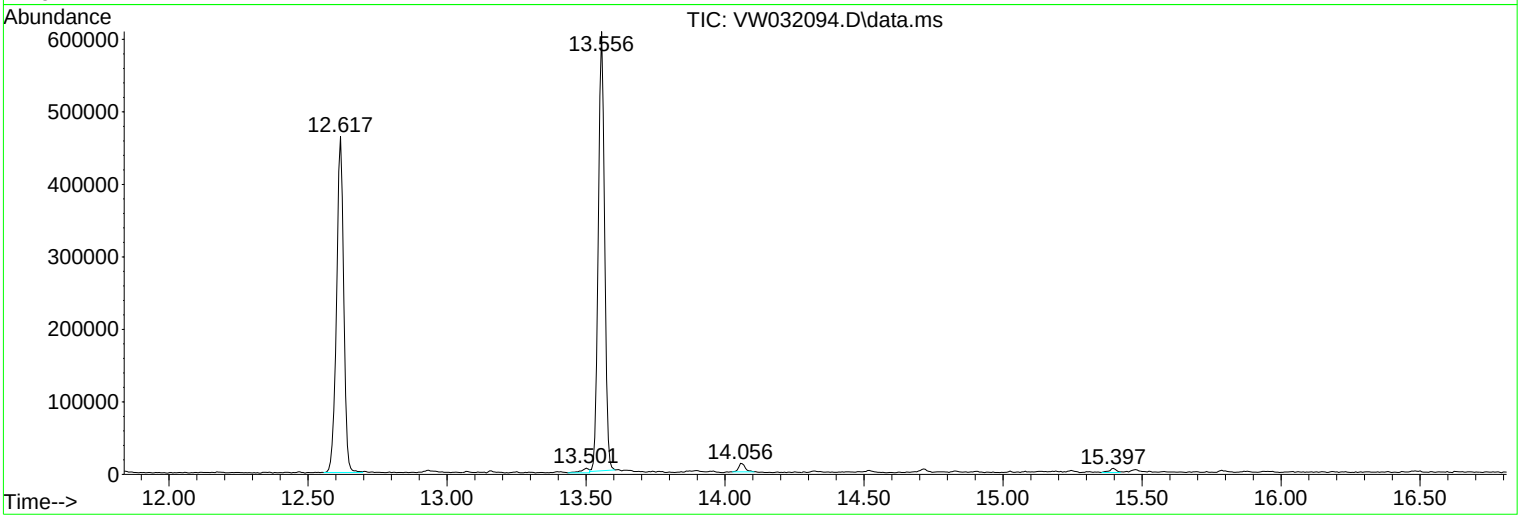
Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VW032094.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032094.D
Acq On : 14 Aug 2025 15:24
Operator : SY/MD
Sample : Q2820-11
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032094.D
Acq On : 14 Aug 2025 15:24
Operator : SY/MD
Sample : Q2820-11
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10PC-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.1
Sample Wt/Vol:	6.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032095.D	1	08/14/25 15:47	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.40	U	0.97	3.40	4.30	ug/Kg
74-87-3	Chloromethane	2.10	U	0.97	2.10	4.30	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	0.67	2.10	4.30	ug/Kg
74-83-9	Bromomethane	3.40	U	0.91	3.40	4.30	ug/Kg
75-00-3	Chloroethane	2.10	U	1.10	2.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	3.40	U	1.00	3.40	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	U	0.90	2.10	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	0.85	2.10	4.30	ug/Kg
67-64-1	Acetone	17.0	U	4.00	17.0	21.3	ug/Kg
75-15-0	Carbon Disulfide	3.40	U	0.90	3.40	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.10	U	0.62	2.10	4.30	ug/Kg
79-20-9	Methyl Acetate	3.40	U	1.30	3.40	4.30	ug/Kg
75-09-2	Methylene Chloride	6.80	U	3.00	6.80	8.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.10	U	0.73	2.10	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	2.10	U	0.68	2.10	4.30	ug/Kg
110-82-7	Cyclohexane	2.10	U	0.67	2.10	4.30	ug/Kg
78-93-3	2-Butanone	17.0	U	5.60	17.0	21.3	ug/Kg
56-23-5	Carbon Tetrachloride	2.10	U	0.83	2.10	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.10	U	0.64	2.10	4.30	ug/Kg
74-97-5	Bromochloromethane	3.40	U	0.98	3.40	4.30	ug/Kg
67-66-3	Chloroform	3.40	U	0.72	3.40	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	0.79	2.10	4.30	ug/Kg
108-87-2	Methylcyclohexane	2.10	U	0.78	2.10	4.30	ug/Kg
71-43-2	Benzene	2.10	U	0.67	2.10	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	2.10	U	0.67	2.10	4.30	ug/Kg
79-01-6	Trichloroethene	2.10	U	0.69	2.10	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	2.10	U	0.78	2.10	4.30	ug/Kg
75-27-4	Bromodichloromethane	2.10	U	0.66	2.10	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.7	U	3.10	10.7	21.3	ug/Kg
108-88-3	Toluene	2.10	U	0.66	2.10	4.30	ug/Kg

Raw Data: **VW032095.D**

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10PC-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.1
Sample Wt/Vol:	6.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032095.D	1	08/14/25 15:47	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.10	U	0.55	2.10	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.10	U	0.53	2.10	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.10	U	0.78	2.10	4.30	ug/Kg
591-78-6	2-Hexanone	10.7	U	3.10	10.7	21.3	ug/Kg
124-48-1	Dibromochloromethane	2.10	U	0.74	2.10	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	2.10	U	0.75	2.10	4.30	ug/Kg
127-18-4	Tetrachloroethene	2.10	U	0.89	2.10	4.30	ug/Kg
108-90-7	Chlorobenzene	2.10	U	0.78	2.10	4.30	ug/Kg
100-41-4	Ethyl Benzene	2.10	U	0.57	2.10	4.30	ug/Kg
179601-23-1	m/p-Xylenes	4.30	U	1.10	4.30	8.50	ug/Kg
95-47-6	o-Xylene	2.10	U	0.70	2.10	4.30	ug/Kg
100-42-5	Styrene	2.10	U	0.61	2.10	4.30	ug/Kg
75-25-2	Bromoform	2.10	U	0.73	2.10	4.30	ug/Kg
98-82-8	Isopropylbenzene	2.10	U	0.66	2.10	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.10	U	1.00	2.10	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	1.50	2.10	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	1.30	2.10	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	U	1.20	2.10	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.40	U	1.60	3.40	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.40	U	2.50	3.40	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	2.70	3.40	4.30	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.1		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	56.8		78 - 119		114%	SPK: 50
2037-26-5	Toluene-d8	50.7		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		79 - 119		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	7.959				
540-36-3	1,4-Difluorobenzene	292000	8.849				
3114-55-4	Chlorobenzene-d5	295000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.556				

Raw Data: **VW032095.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10PC-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.1
Sample Wt/Vol:	6.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032095.D	1	08/14/25 15:47	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032095.D
Acq On : 14 Aug 2025 15:47
Operator : SY/MD
Sample : Q2820-12
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Quant Time: Aug 18 03:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	146756	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	291552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	294933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	140579	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	121261	57.131	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 114.260%			
35) Dibromofluoromethane	7.898	113	107032	56.825	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 113.640%			
50) Toluene-d8	10.331	98	352920	50.659	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.320%			
62) 4-Bromofluorobenzene	12.617	95	129815	50.565	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.120%			

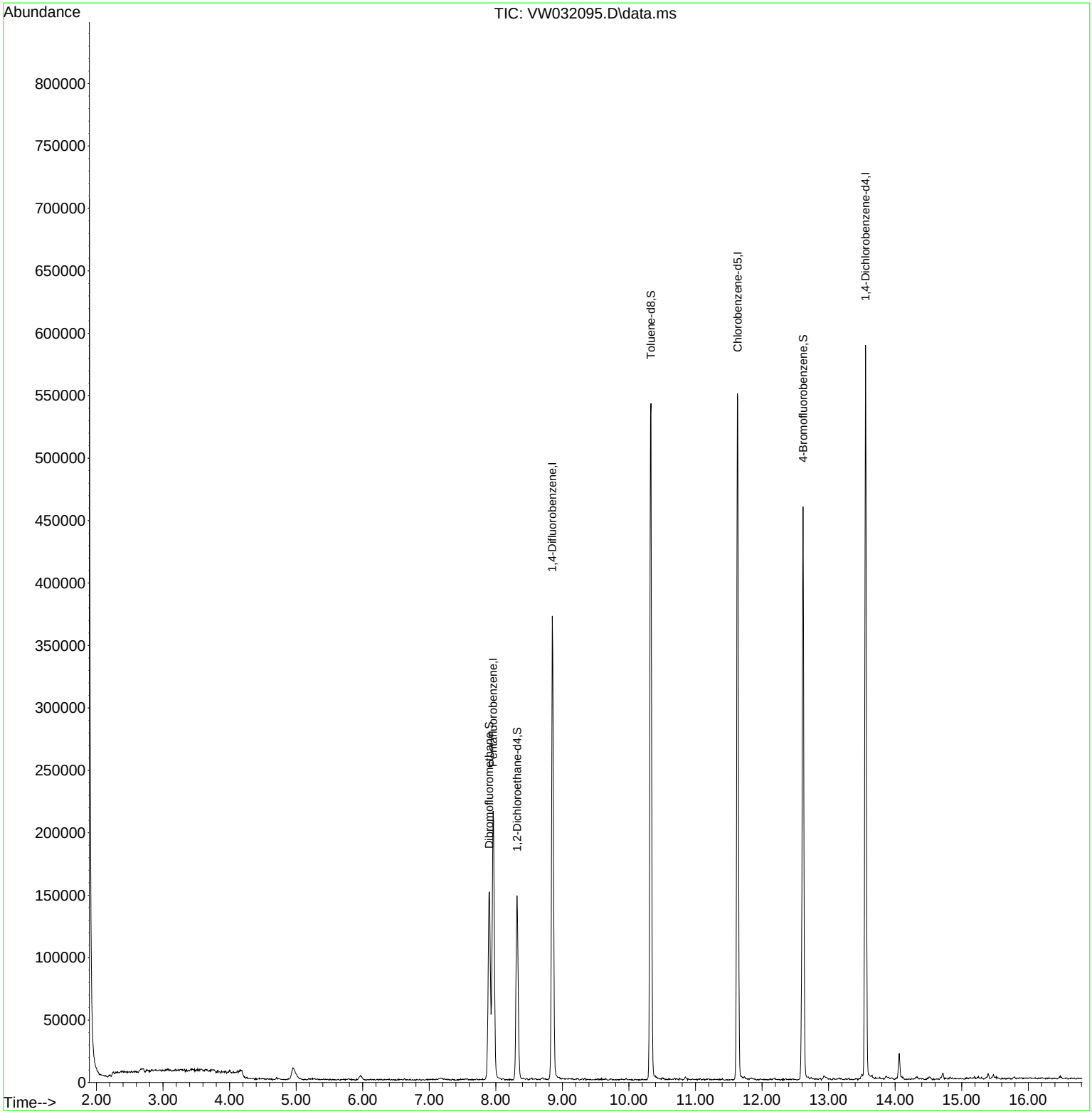
Target Compounds Qvalue

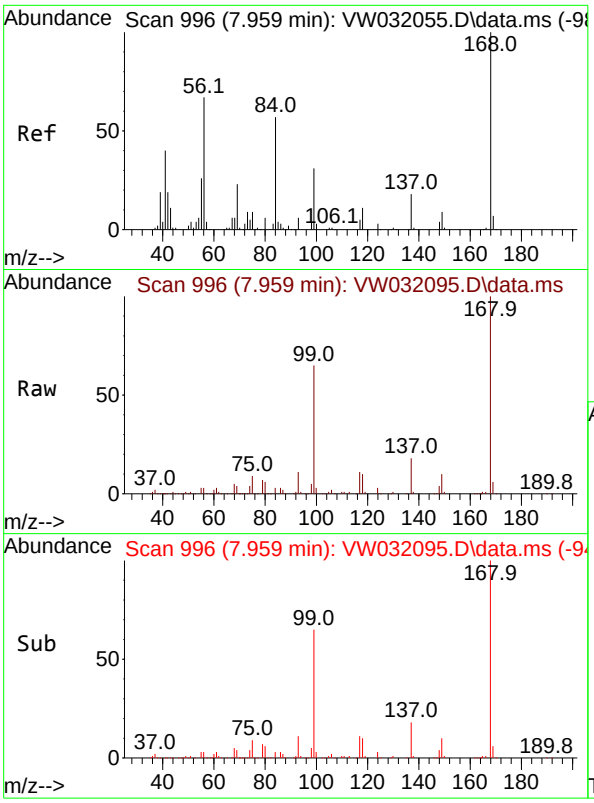
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032095.D
Acq On : 14 Aug 2025 15:47
Operator : SY/MD
Sample : Q2820-12
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Quant Time: Aug 18 03:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



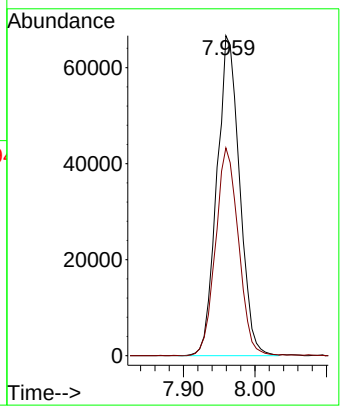


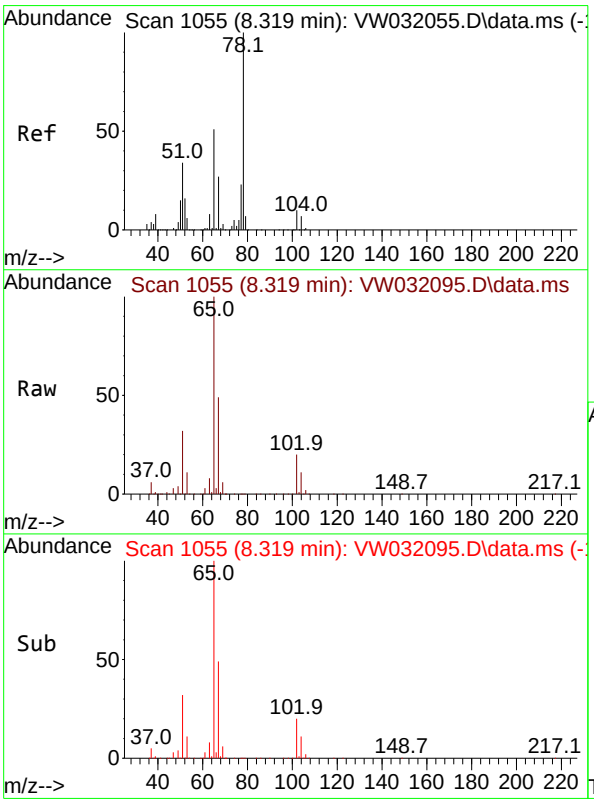
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Tgt Ion:168 Resp: 146756

Ion	Ratio	Lower	Upper
168	100		
99	64.9	56.0	84.0

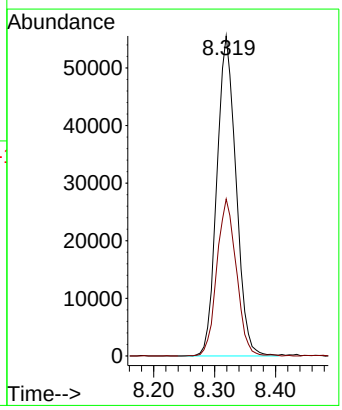


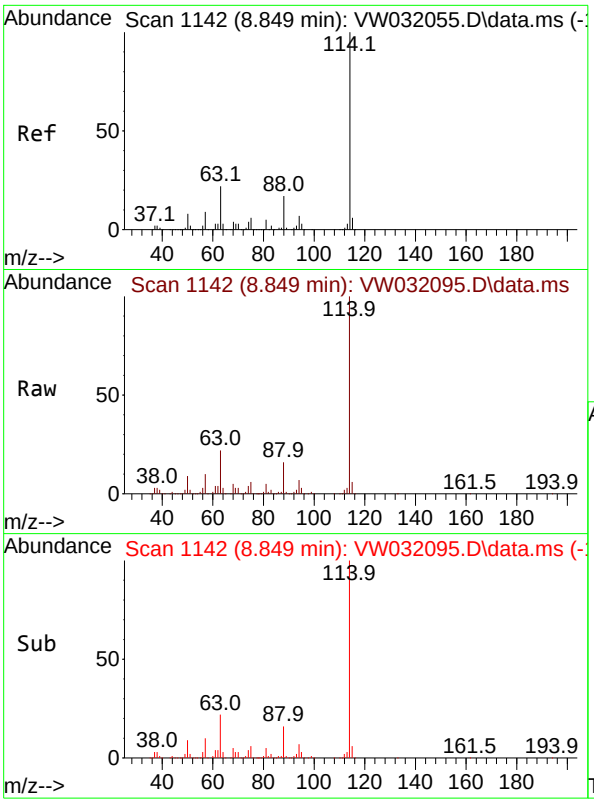


#33
1,2-Dichloroethane-d4
Concen: 57.131 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Tgt Ion: 65 Resp: 121261

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	102.4



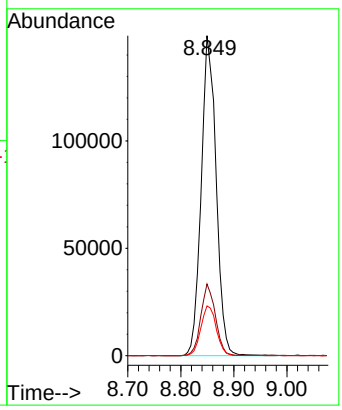


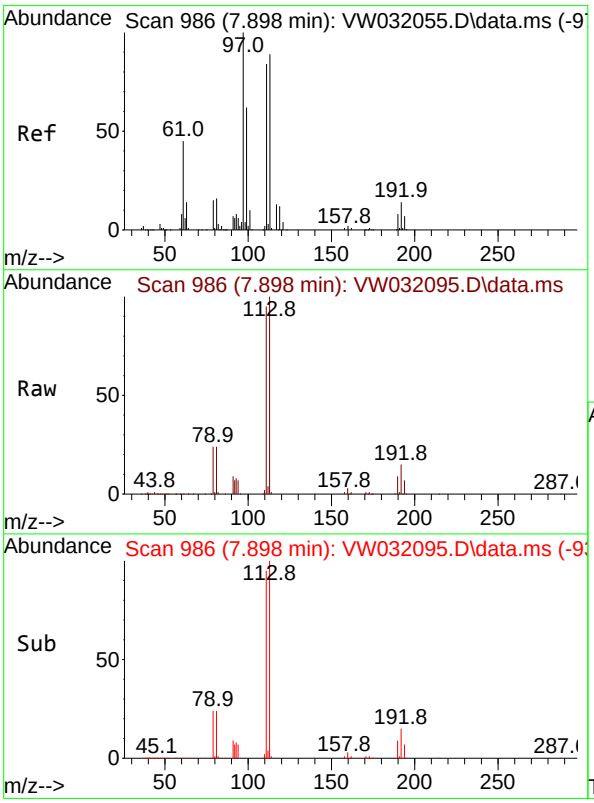
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Tgt Ion:114 Resp: 291552

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	43.0
88	15.5	0.0	33.8

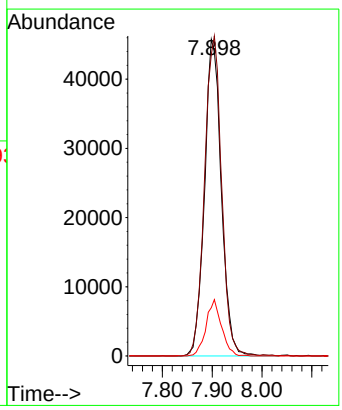


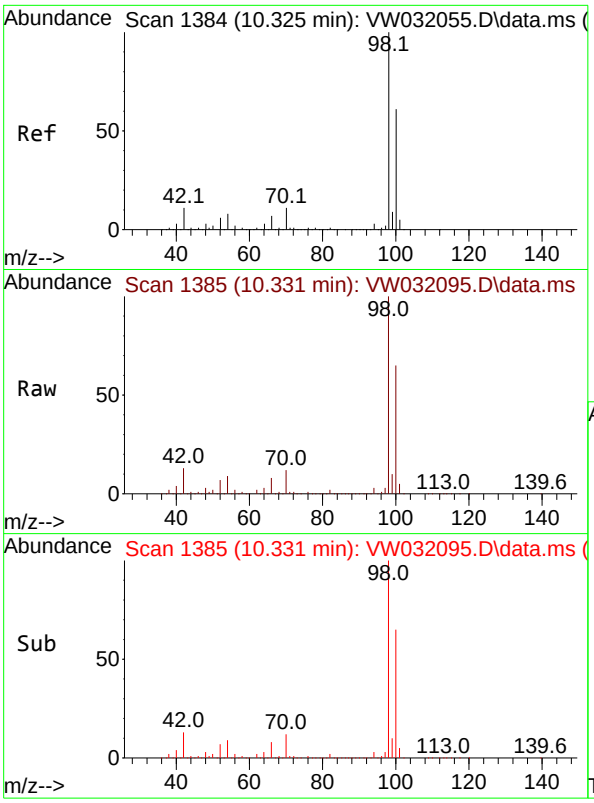


#35
Dibromofluoromethane
Concen: 56.825 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Tgt Ion:113 Resp: 107032

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.1	120.1
192	16.5	13.1	19.7



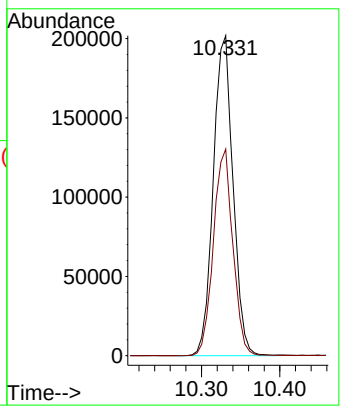


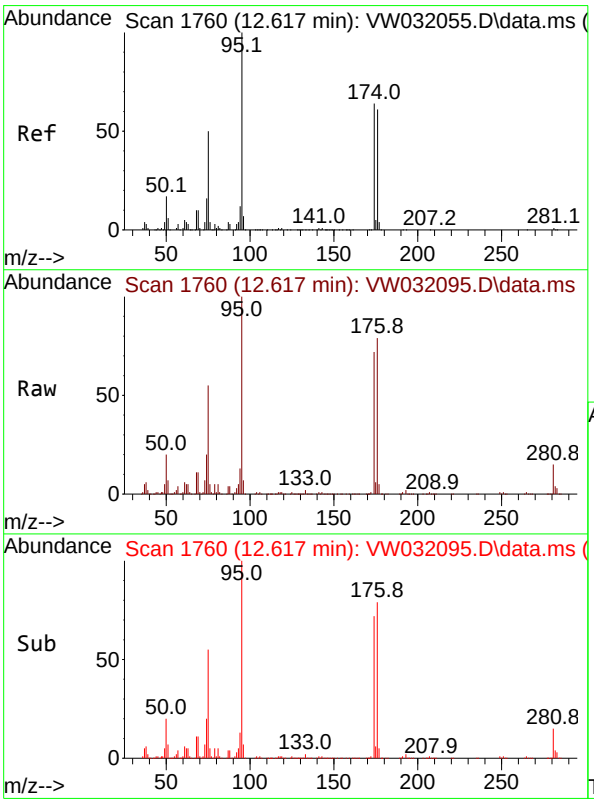
#50
Toluene-d8
Concen: 50.659 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Tgt Ion: 98 Resp: 352920

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7

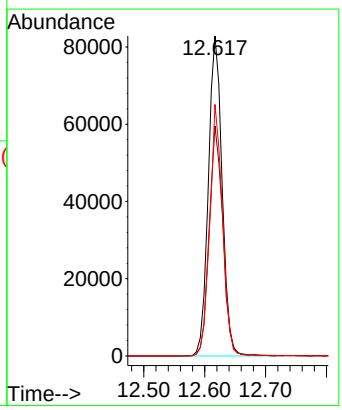


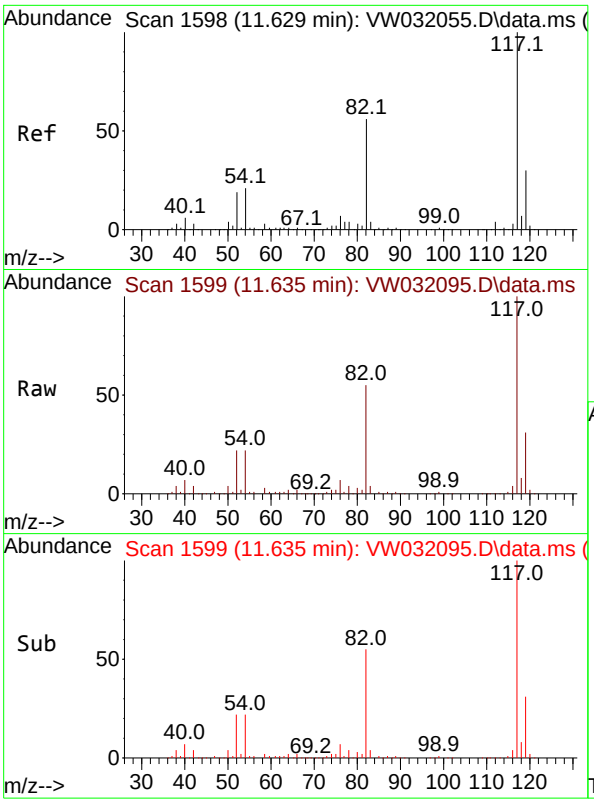


#62
4-Bromofluorobenzene
Concen: 50.565 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Tgt Ion: 95 Resp: 129815

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	129.0
176	73.3	0.0	124.6



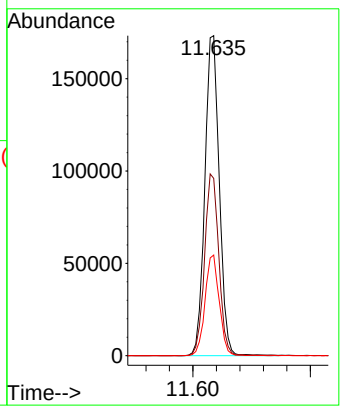


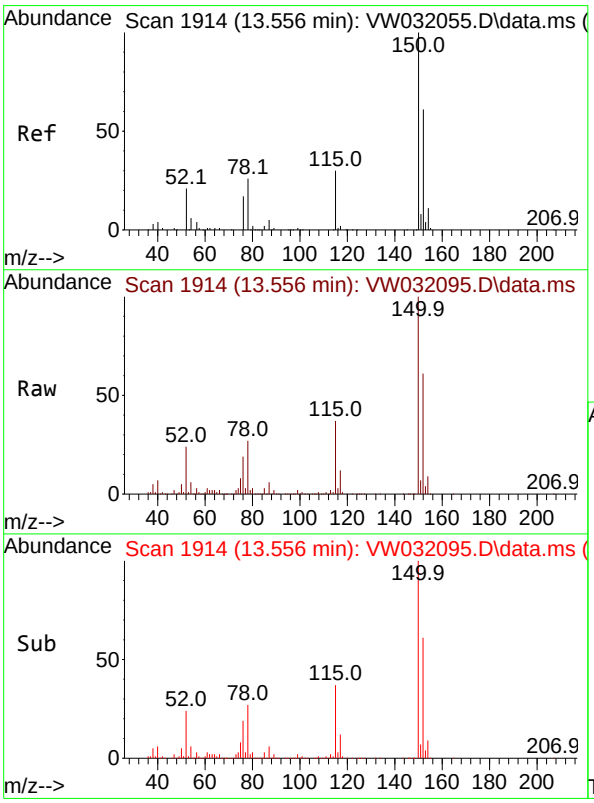
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Tgt Ion:117 Resp: 294933

Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.0	67.4
119	31.4	24.2	36.4

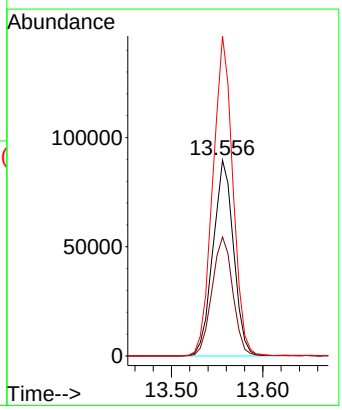




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032095.D
Acq: 14 Aug 2025 15:47

Tgt Ion:152 Resp: 140579

Ion	Ratio	Lower	Upper
152	100		
115	61.5	32.6	97.8
150	159.5	0.0	359.4



Sample Results: **VW032095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032095.D
Acq On : 14 Aug 2025 15:47
Operator : SY/MD
Sample : Q2820-12
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032095.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	492	503	520	rBV3	9342	40611	4.18%	0.723%
2	7.904	975	987	991	rBV	150026	358603	36.90%	6.385%
3	7.959	991	996	1009	rVB	214018	482762	49.67%	8.596%
4	8.319	1045	1055	1067	rBV	147787	332919	34.26%	5.928%
5	8.849	1132	1142	1155	rBV	371502	733995	75.53%	13.069%
6	10.331	1375	1385	1394	rBV	541954	971854	100.00%	17.305%
7	11.629	1589	1598	1606	rBV	549679	945004	97.24%	16.827%
8	12.617	1751	1760	1770	rBV2	458285	797810	82.09%	14.206%
9	12.928	1805	1811	1818	rBV10	3461	10671	1.10%	0.190%
10	13.556	1907	1914	1926	rVB	585425	910433	93.68%	16.211%
11	14.062	1989	1997	2001	rBV	20277	31456	3.24%	0.560%

Sum of corrected areas: 5616118

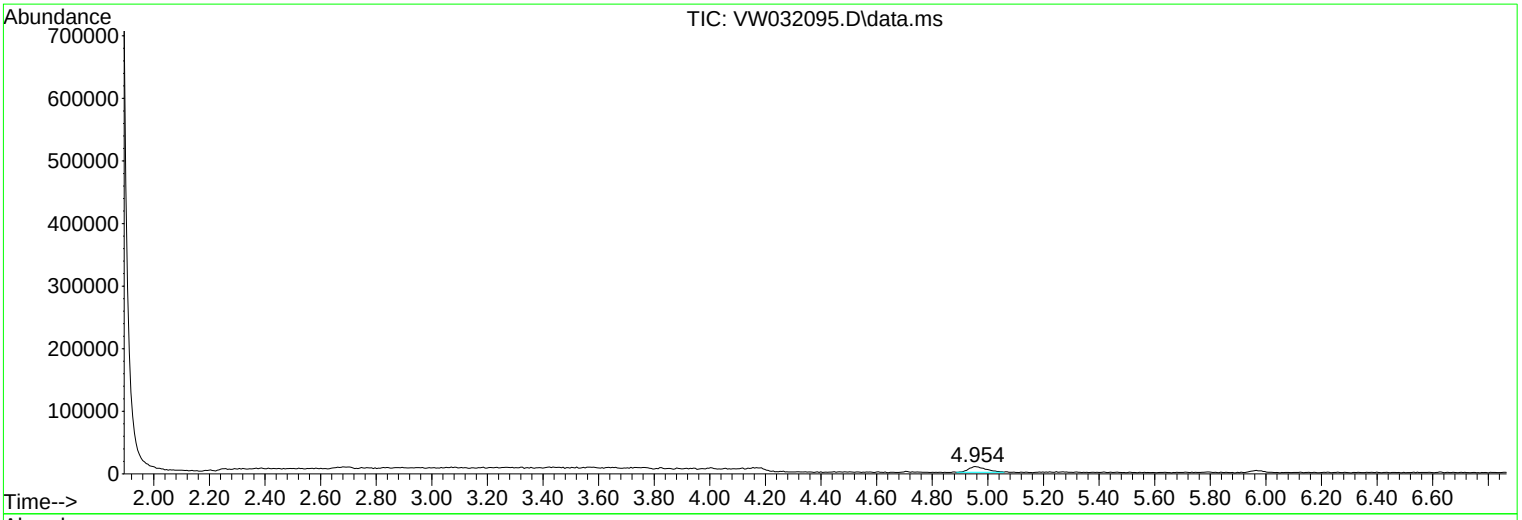
Sample Results: **VW032095.D**

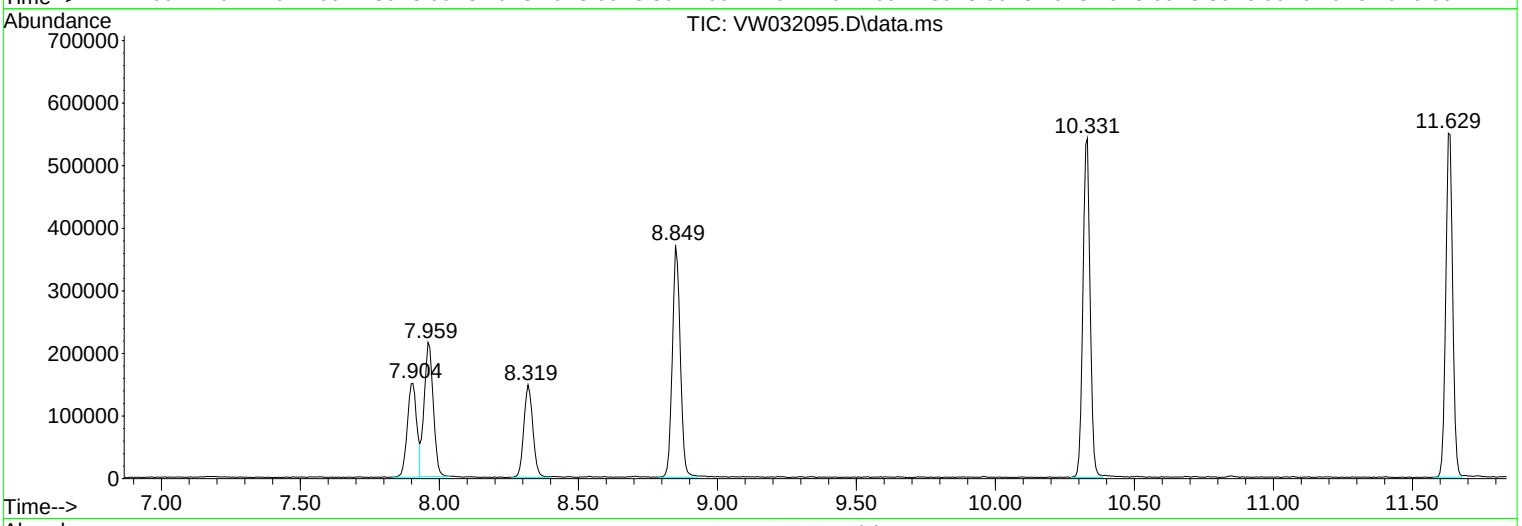
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032095.D
Acq On : 14 Aug 2025 15:47
Operator : SY/MD
Sample : Q2820-12
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

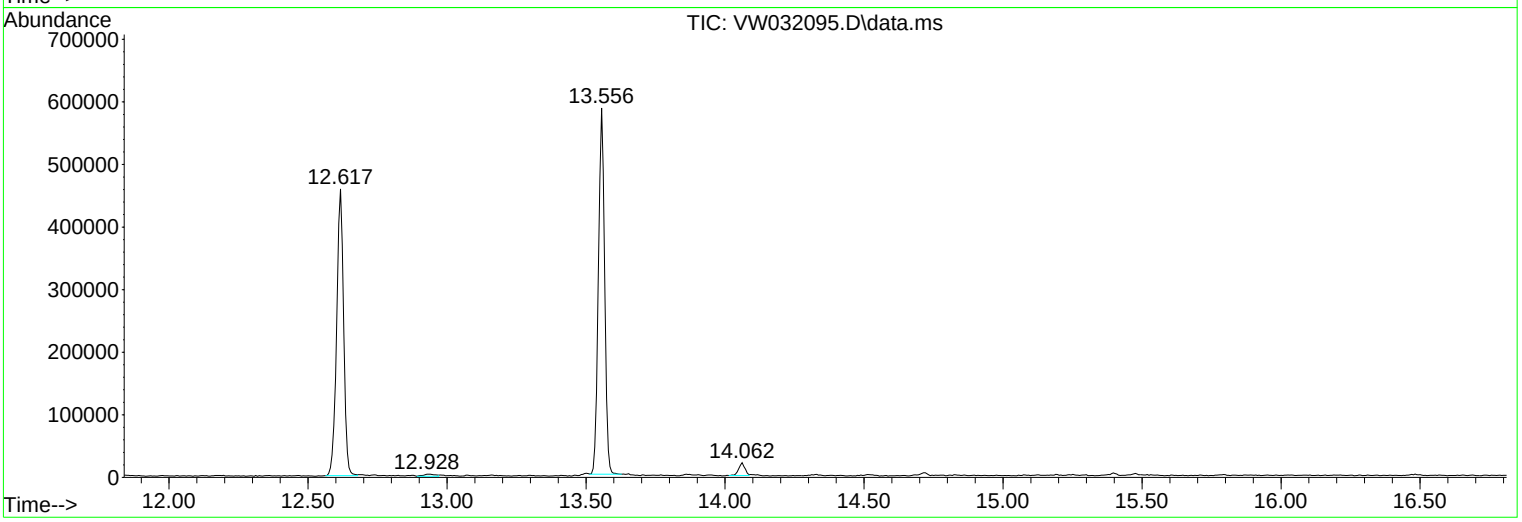
Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VW032095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032095.D
Acq On : 14 Aug 2025 15:47
Operator : SY/MD
Sample : Q2820-12
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Sample Results: **VW032095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032095.D
Acq On : 14 Aug 2025 15:47
Operator : SY/MD
Sample : Q2820-12
Misc : 6.37g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10PC-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.2
Sample Wt/Vol:	9.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032096.D	1	08/14/25 16:10	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.40	U	0.68	2.40	3.00	ug/Kg
74-87-3	Chloromethane	1.50	U	0.68	1.50	3.00	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	0.47	1.50	3.00	ug/Kg
74-83-9	Bromomethane	2.40	U	0.64	2.40	3.00	ug/Kg
75-00-3	Chloroethane	1.50	U	0.76	1.50	3.00	ug/Kg
75-69-4	Trichlorofluoromethane	2.40	U	0.73	2.40	3.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	0.64	1.50	3.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.50	U	0.60	1.50	3.00	ug/Kg
67-64-1	Acetone	9.30	J	2.80	12.0	15.0	ug/Kg
75-15-0	Carbon Disulfide	2.40	U	0.64	2.40	3.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.50	U	0.44	1.50	3.00	ug/Kg
79-20-9	Methyl Acetate	2.40	U	0.92	2.40	3.00	ug/Kg
75-09-2	Methylene Chloride	3.30	J	2.10	4.80	6.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	0.52	1.50	3.00	ug/Kg
75-34-3	1,1-Dichloroethane	1.50	U	0.48	1.50	3.00	ug/Kg
110-82-7	Cyclohexane	1.50	U	0.47	1.50	3.00	ug/Kg
78-93-3	2-Butanone	12.0	U	3.90	12.0	15.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	0.58	1.50	3.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.50	U	0.45	1.50	3.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	0.69	2.40	3.00	ug/Kg
67-66-3	Chloroform	2.40	U	0.50	2.40	3.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	0.56	1.50	3.00	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	0.55	1.50	3.00	ug/Kg
71-43-2	Benzene	1.50	U	0.47	1.50	3.00	ug/Kg
107-06-2	1,2-Dichloroethane	1.50	U	0.47	1.50	3.00	ug/Kg
79-01-6	Trichloroethene	1.50	U	0.49	1.50	3.00	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	0.55	1.50	3.00	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	0.47	1.50	3.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.50	U	2.10	7.50	15.0	ug/Kg
108-88-3	Toluene	1.50	U	0.47	1.50	3.00	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.2
Sample Wt/Vol:	9.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032096.D	1	08/14/25 16:10	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.50	U	0.39	1.50	3.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.50	U	0.37	1.50	3.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	0.55	1.50	3.00	ug/Kg
591-78-6	2-Hexanone	7.50	U	2.20	7.50	15.0	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	0.52	1.50	3.00	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	0.53	1.50	3.00	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	0.63	1.50	3.00	ug/Kg
108-90-7	Chlorobenzene	1.50	U	0.55	1.50	3.00	ug/Kg
100-41-4	Ethyl Benzene	1.50	U	0.40	1.50	3.00	ug/Kg
179601-23-1	m/p-Xylenes	3.00	U	0.74	3.00	6.00	ug/Kg
95-47-6	o-Xylene	1.50	U	0.49	1.50	3.00	ug/Kg
100-42-5	Styrene	1.50	U	0.43	1.50	3.00	ug/Kg
75-25-2	Bromoform	1.50	U	0.52	1.50	3.00	ug/Kg
98-82-8	Isopropylbenzene	1.50	U	0.47	1.50	3.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	0.73	1.50	3.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.00	1.50	3.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	0.94	1.50	3.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	0.87	1.50	3.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.40	U	1.10	2.40	3.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	1.80	2.40	3.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	1.90	2.40	3.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		71 - 136		108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		78 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	46.6		85 - 116		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		79 - 119		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	7.965				
540-36-3	1,4-Difluorobenzene	317000	8.855				
3114-55-4	Chlorobenzene-d5	348000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	179000	13.556				

Raw Data: **VW032096.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.2
Sample Wt/Vol:	9.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032096.D	1	08/14/25 16:10	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032096.D
Acq On : 14 Aug 2025 16:10
Operator : SY/MD
Sample : Q2820-13
Misc : 9.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Quant Time: Aug 18 03:54:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

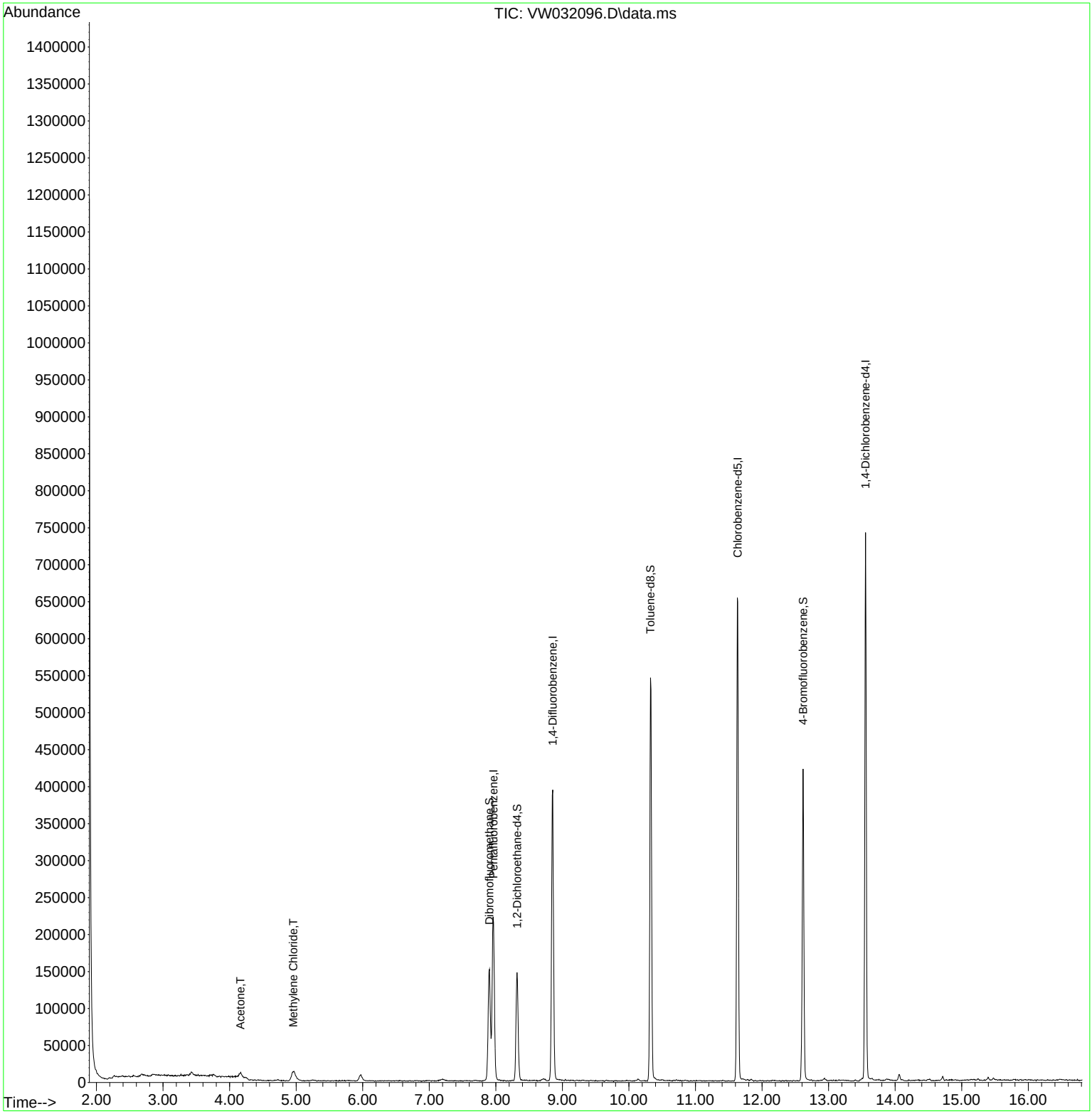
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	153502	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	317351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	347999	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	179419	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120279	54.178	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 108.360%			
35) Dibromofluoromethane	7.904	113	108290	52.819	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 105.640%			
50) Toluene-d8	10.325	98	353584	46.628	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 93.260%			
62) 4-Bromofluorobenzene	12.617	95	127022	45.455	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 90.900%			
Target Compounds						Qvalue
16) Acetone	4.161	43	7948	15.463	ug/l #	88
20) Methylene Chloride	4.960	84	13233	5.568	ug/l	92

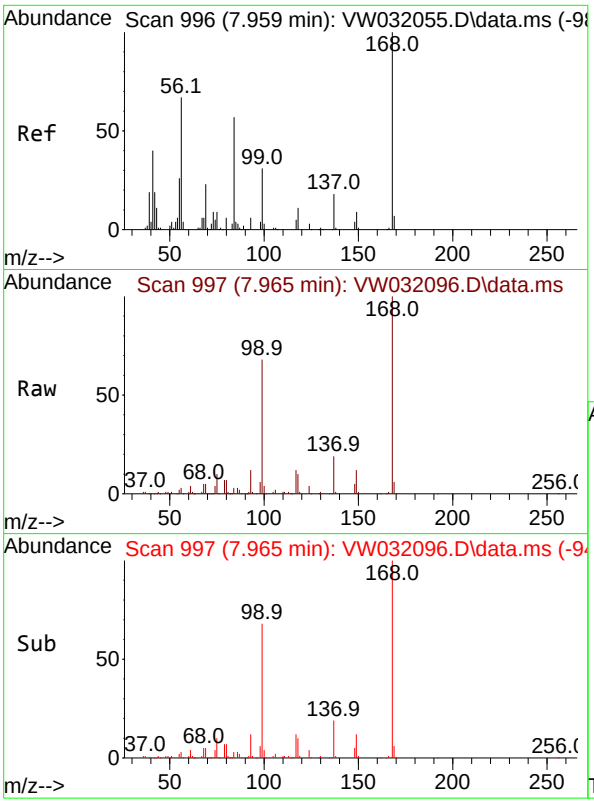
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032096.D
Acq On : 14 Aug 2025 16:10
Operator : SY/MD
Sample : Q2820-13
Misc : 9.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Quant Time: Aug 18 03:54:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



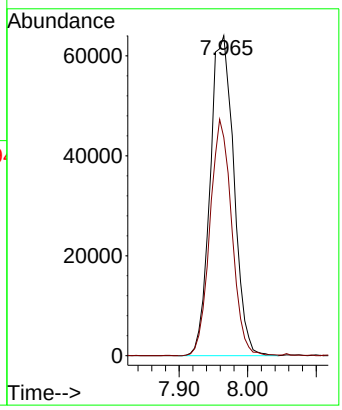


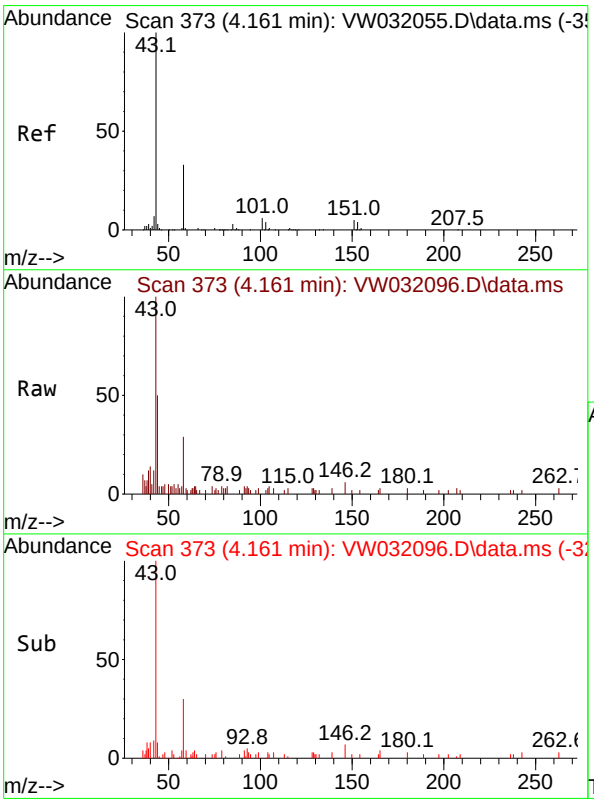
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Tgt Ion:168 Resp: 153502

Ion	Ratio	Lower	Upper
168	100		
99	68.2	56.0	84.0

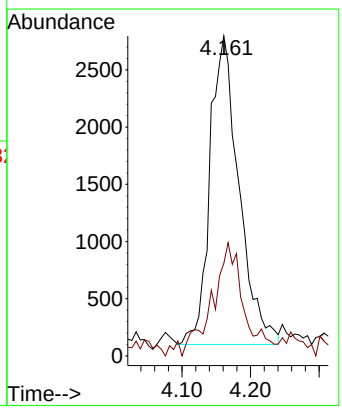


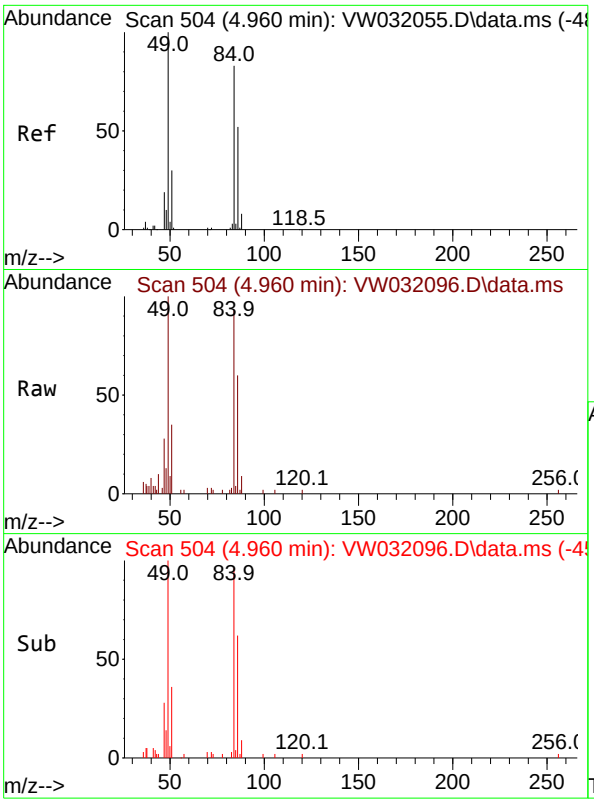


#16
Acetone
Concen: 15.463 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Tgt Ion: 43 Resp: 7948

Ion	Ratio	Lower	Upper
43	100		
58	26.1	26.6	39.8#



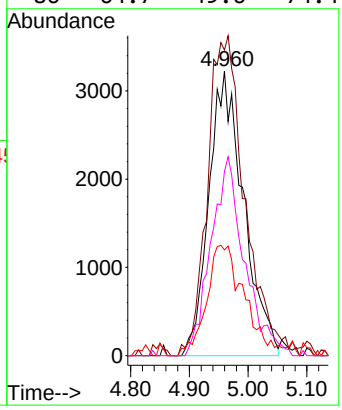


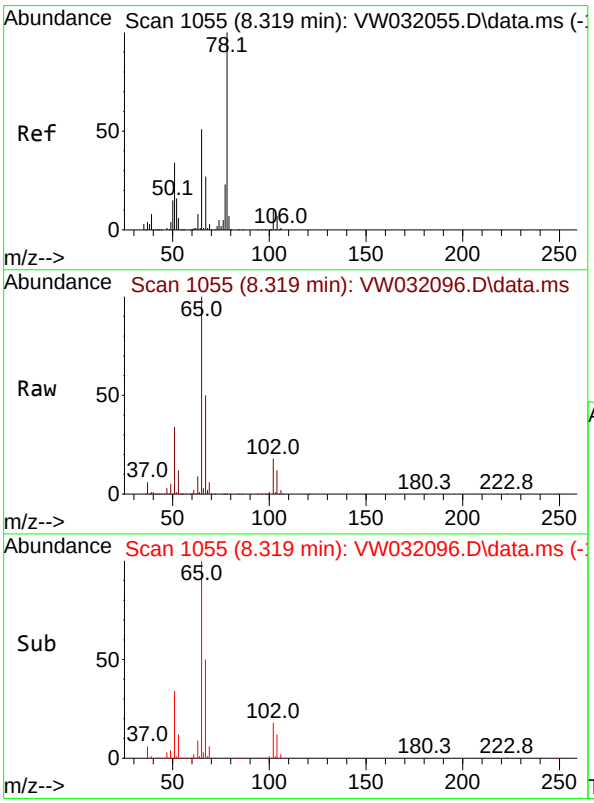
#20
Methylene Chloride
Concen: 5.568 ug/l
RT: 4.960 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Tgt Ion: 84 Resp: 13233

Ion	Ratio	Lower	Upper
84	100		
49	107.3	95.9	143.9
51	37.1	28.6	43.0
86	64.7	49.6	74.4

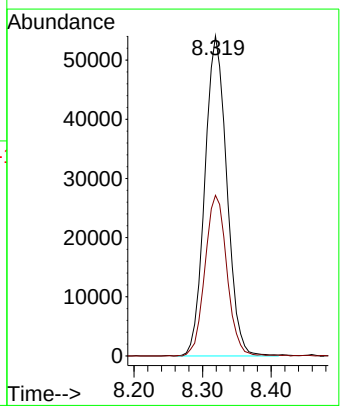


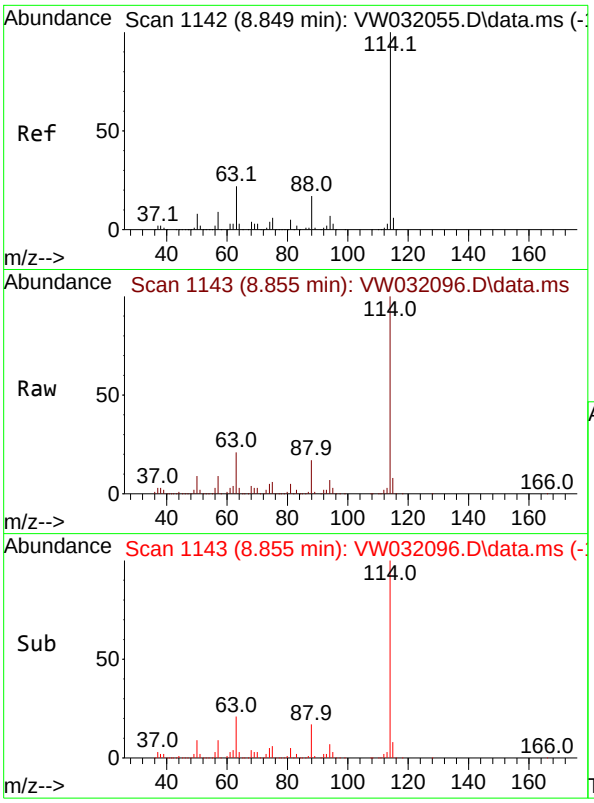


#33
1,2-Dichloroethane-d4
Concen: 54.178 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Tgt Ion: 65 Resp: 120279

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	102.4



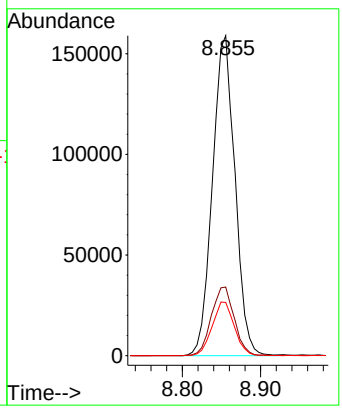


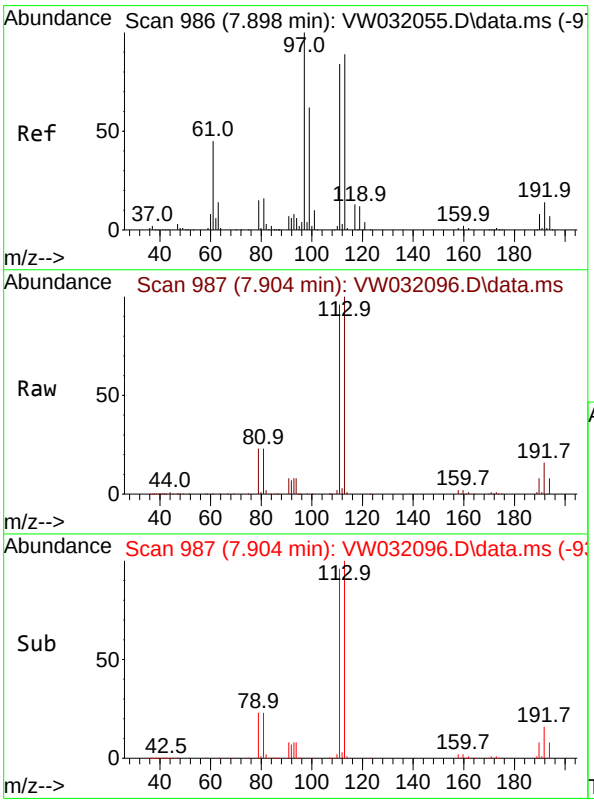
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Tgt Ion:114 Resp: 317351

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	43.0
88	16.7	0.0	33.8

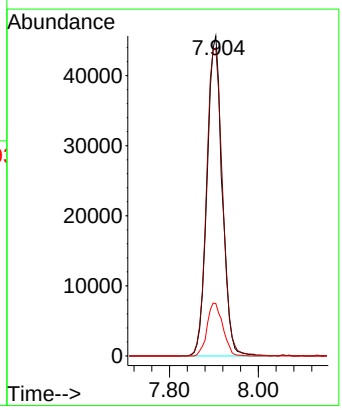


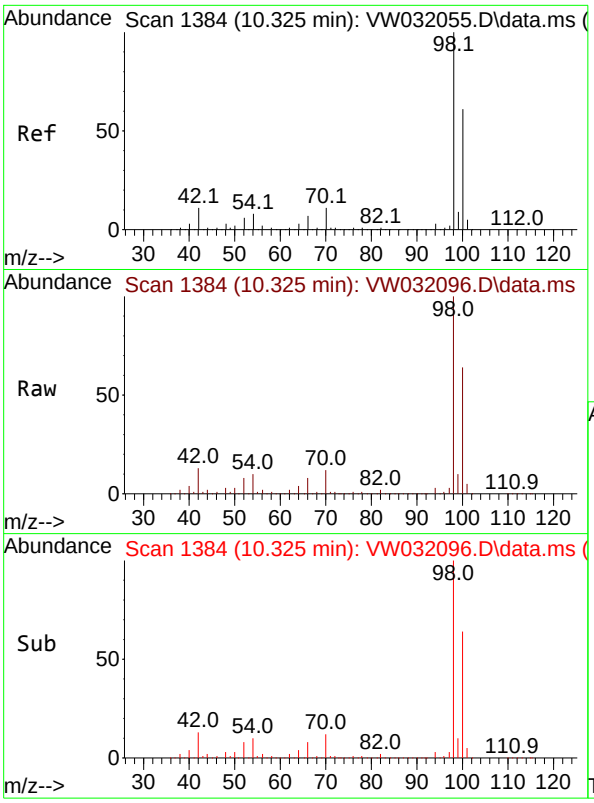


#35
Dibromofluoromethane
Concen: 52.819 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Tgt Ion:113 Resp: 108290

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.1	120.1
192	17.1	13.1	19.7



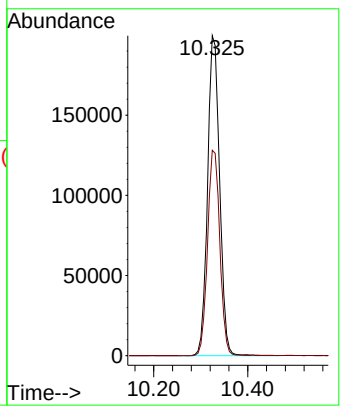


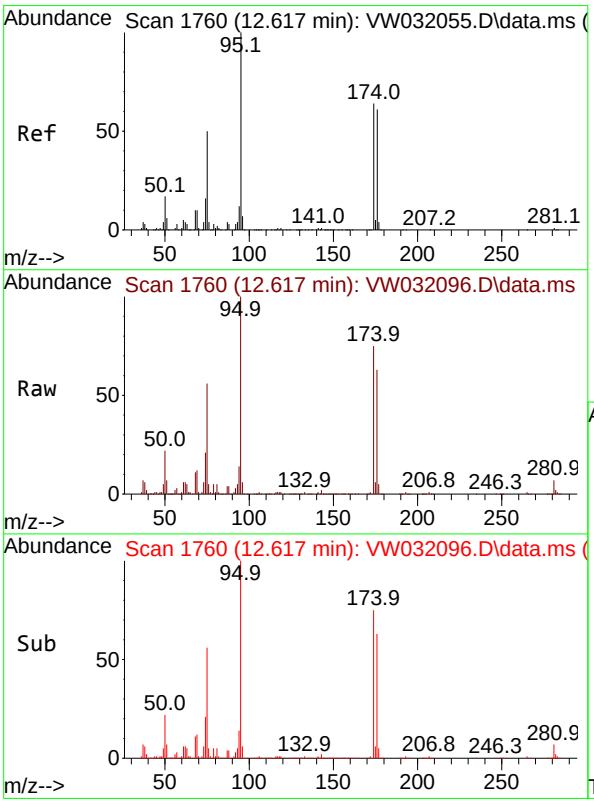
#50
Toluene-d8
Concen: 46.628 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Tgt Ion: 98 Resp: 353584

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.1	76.7

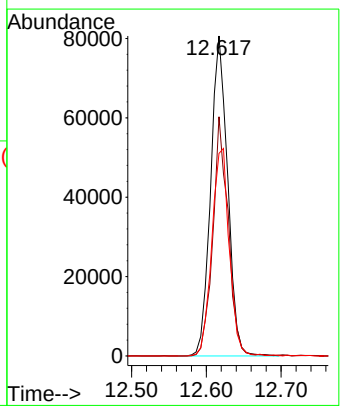


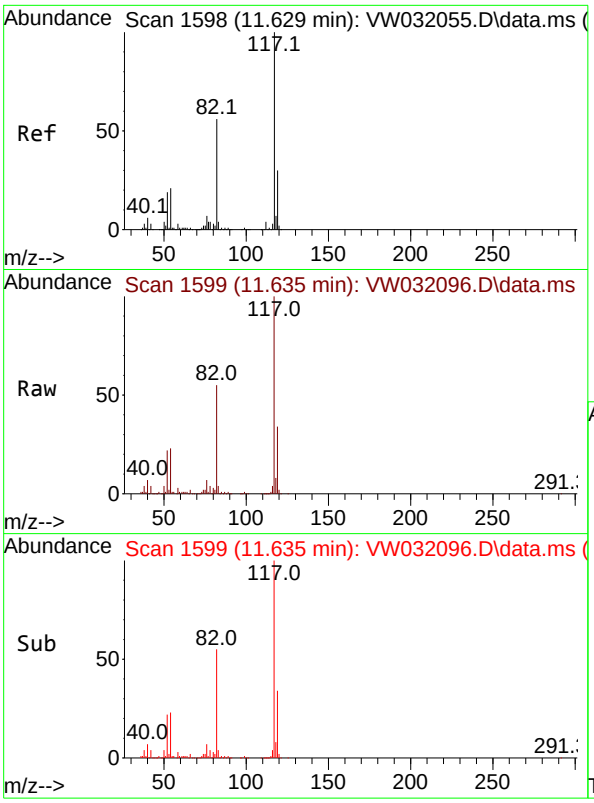


#62
4-Bromofluorobenzene
Concen: 45.455 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Tgt Ion: 95 Resp: 127022

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	129.0
176	67.1	0.0	124.6



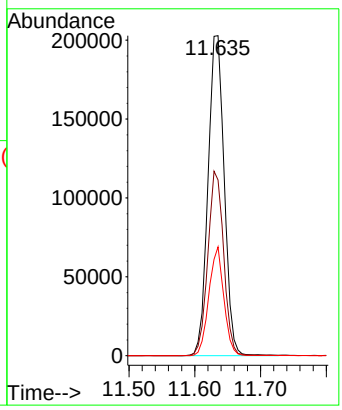


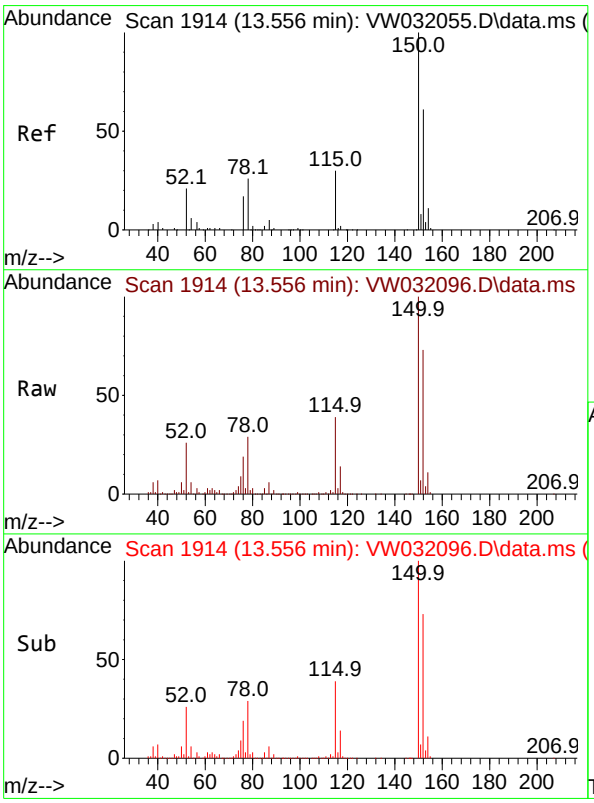
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Tgt Ion:117 Resp: 347999

Ion	Ratio	Lower	Upper
117	100		
82	54.9	45.0	67.4
119	34.0	24.2	36.4

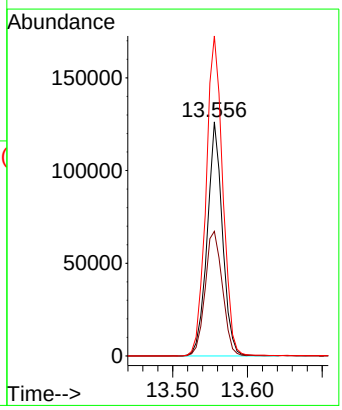




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032096.D
Acq: 14 Aug 2025 16:10

Tgt Ion:152 Resp: 179419

Ion	Ratio	Lower	Upper
152	100		
115	60.3	32.6	97.8
150	149.2	0.0	359.4



Sample Results: **VW032096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032096.D
Acq On : 14 Aug 2025 16:10
Operator : SY/MD
Sample : Q2820-13
Misc : 9.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032096.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.423	246	252	258	rBV7	5162	13040	1.15%	0.214%
2	4.167	369	374	382	rVB3	7124	17381	1.53%	0.285%
3	4.966	491	505	518	rBV3	13175	59492	5.25%	0.974%
4	5.972	659	670	682	rBV5	8470	27078	2.39%	0.443%
5	7.904	971	987	991	rBV	151006	367919	32.48%	6.026%
6	7.959	991	996	1007	rVB	220618	515882	45.54%	8.449%
7	8.319	1046	1055	1065	rBV2	146262	327486	28.91%	5.364%
8	8.855	1134	1143	1154	rBV	392875	801081	70.71%	13.120%
9	10.325	1376	1384	1401	rBV	545379	990626	87.44%	16.225%
10	11.629	1590	1598	1609	rBV	653676	1124021	99.22%	18.410%
11	12.617	1749	1760	1775	rBV2	422028	712240	62.87%	11.665%
12	13.556	1907	1914	1924	rVB	738274	1132875	100.00%	18.555%
13	14.062	1989	1997	2002	rBV	8336	16463	1.45%	0.270%

Sum of corrected areas: 6105584

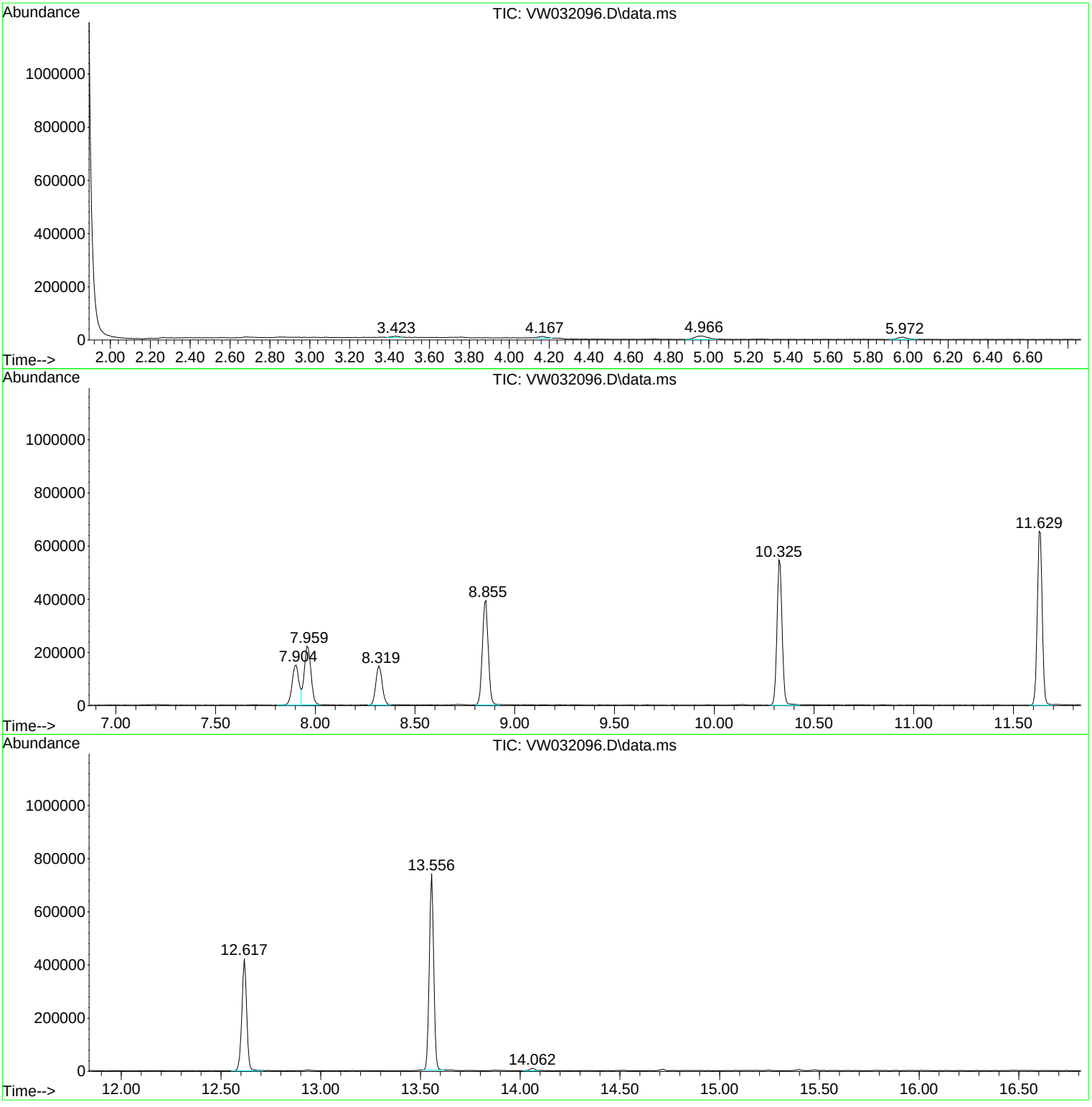
Sample Results: **VW032096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032096.D
Acq On : 14 Aug 2025 16:10
Operator : SY/MD
Sample : Q2820-13
Misc : 9.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032096.D
Acq On : 14 Aug 2025 16:10
Operator : SY/MD
Sample : Q2820-13
Misc : 9.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032096.D
Acq On : 14 Aug 2025 16:10
Operator : SY/MD
Sample : Q2820-13
Misc : 9.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-14	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.3
Sample Wt/Vol:	7.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032097.D	1	08/14/25 16:32	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.20	U	0.92	3.20	4.00	ug/Kg
74-87-3	Chloromethane	2.00	U	0.92	2.00	4.00	ug/Kg
75-01-4	Vinyl Chloride	2.00	U	0.64	2.00	4.00	ug/Kg
74-83-9	Bromomethane	3.20	U	0.86	3.20	4.00	ug/Kg
75-00-3	Chloroethane	2.00	U	1.00	2.00	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	3.20	U	0.97	3.20	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00	U	0.85	2.00	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.00	U	0.80	2.00	4.00	ug/Kg
67-64-1	Acetone	16.1	U	3.80	16.1	20.1	ug/Kg
75-15-0	Carbon Disulfide	3.20	U	0.85	3.20	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.00	U	0.59	2.00	4.00	ug/Kg
79-20-9	Methyl Acetate	3.20	U	1.20	3.20	4.00	ug/Kg
75-09-2	Methylene Chloride	6.40	U	2.80	6.40	8.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.00	U	0.69	2.00	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.00	U	0.64	2.00	4.00	ug/Kg
110-82-7	Cyclohexane	2.00	U	0.64	2.00	4.00	ug/Kg
78-93-3	2-Butanone	16.1	U	5.30	16.1	20.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.00	U	0.78	2.00	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.00	U	0.60	2.00	4.00	ug/Kg
74-97-5	Bromochloromethane	3.20	U	0.92	3.20	4.00	ug/Kg
67-66-3	Chloroform	3.20	U	0.68	3.20	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.00	U	0.75	2.00	4.00	ug/Kg
108-87-2	Methylcyclohexane	2.00	U	0.73	2.00	4.00	ug/Kg
71-43-2	Benzene	2.00	U	0.64	2.00	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.00	U	0.64	2.00	4.00	ug/Kg
79-01-6	Trichloroethene	2.00	U	0.65	2.00	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.00	U	0.73	2.00	4.00	ug/Kg
75-27-4	Bromodichloromethane	2.00	U	0.63	2.00	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.0	U	2.90	10.0	20.1	ug/Kg
108-88-3	Toluene	2.00	U	0.63	2.00	4.00	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-14	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.3
Sample Wt/Vol:	7.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032097.D	1	08/14/25 16:32	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.00	U	0.52	2.00	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.00	U	0.50	2.00	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.00	U	0.74	2.00	4.00	ug/Kg
591-78-6	2-Hexanone	10.0	U	3.00	10.0	20.1	ug/Kg
124-48-1	Dibromochloromethane	2.00	U	0.70	2.00	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	2.00	U	0.71	2.00	4.00	ug/Kg
127-18-4	Tetrachloroethene	2.00	U	0.84	2.00	4.00	ug/Kg
108-90-7	Chlorobenzene	2.00	U	0.73	2.00	4.00	ug/Kg
100-41-4	Ethyl Benzene	2.00	U	0.54	2.00	4.00	ug/Kg
179601-23-1	m/p-Xylenes	4.00	U	1.00	4.00	8.00	ug/Kg
95-47-6	o-Xylene	2.00	U	0.66	2.00	4.00	ug/Kg
100-42-5	Styrene	2.00	U	0.57	2.00	4.00	ug/Kg
75-25-2	Bromoform	2.00	U	0.69	2.00	4.00	ug/Kg
98-82-8	Isopropylbenzene	2.00	U	0.63	2.00	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	0.97	2.00	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	1.40	2.00	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.00	U	1.30	2.00	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.00	U	1.20	2.00	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.20	U	1.50	3.20	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	2.40	3.20	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	2.60	3.20	4.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.1		71 - 136		122%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		78 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	47.7		85 - 116		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		79 - 119		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	7.959				
540-36-3	1,4-Difluorobenzene	288000	8.849				
3114-55-4	Chlorobenzene-d5	286000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	140000	13.556				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-14	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.3
Sample Wt/Vol:	7.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032097.D	1	08/14/25 16:32	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032097.D
Acq On : 14 Aug 2025 16:32
Operator : SY/MD
Sample : Q2820-14
Misc : 7.65g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Quant Time: Aug 18 03:54:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	132278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	288474	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	286427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	140063	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	116875	61.092	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 122.180%			
35) Dibromofluoromethane	7.904	113	98877	53.055	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 106.120%			
50) Toluene-d8	10.331	98	328487	47.654	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 95.300%			
62) 4-Bromofluorobenzene	12.617	95	114543	45.092	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 90.180%			

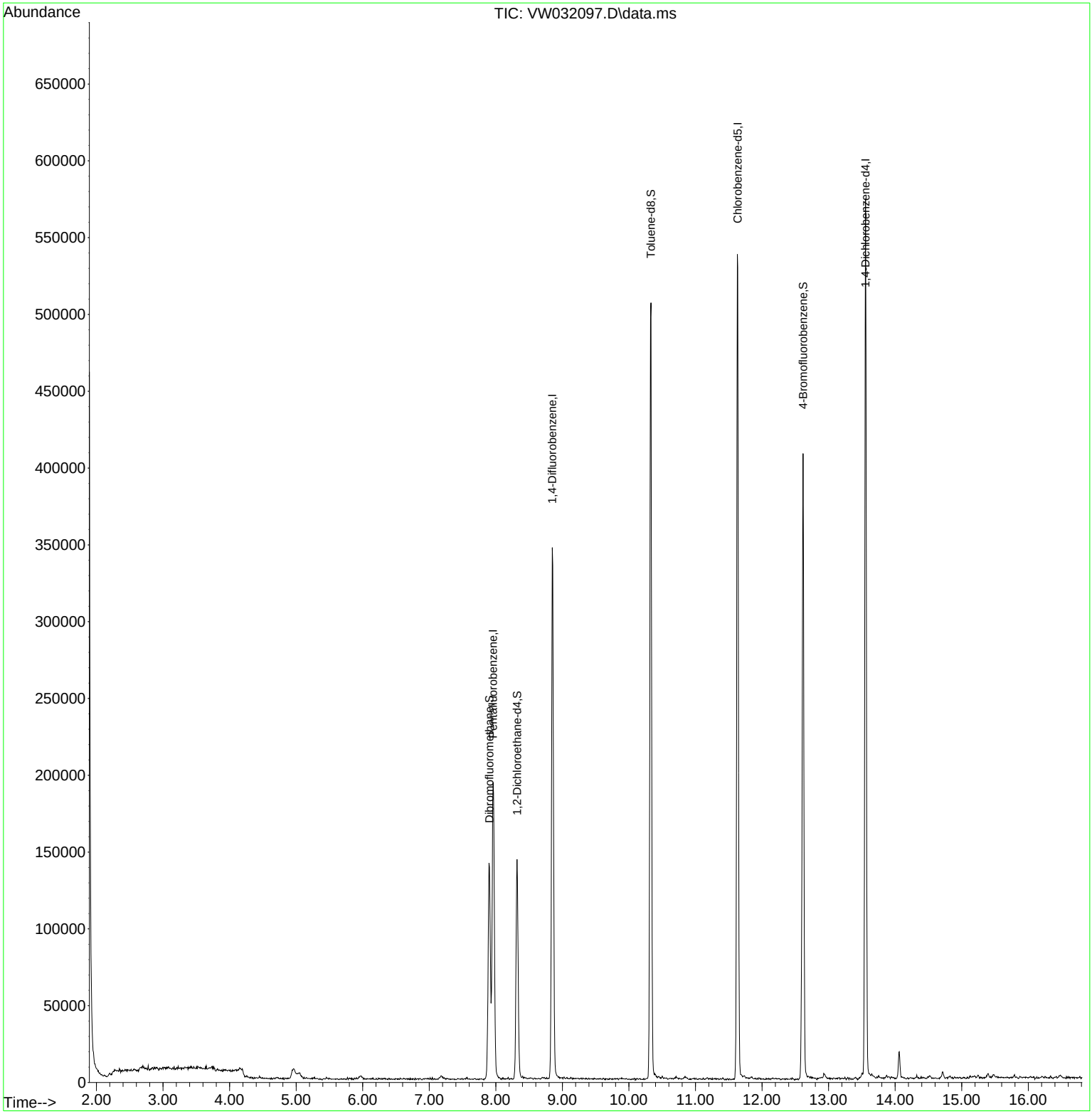
Target Compounds Qvalue

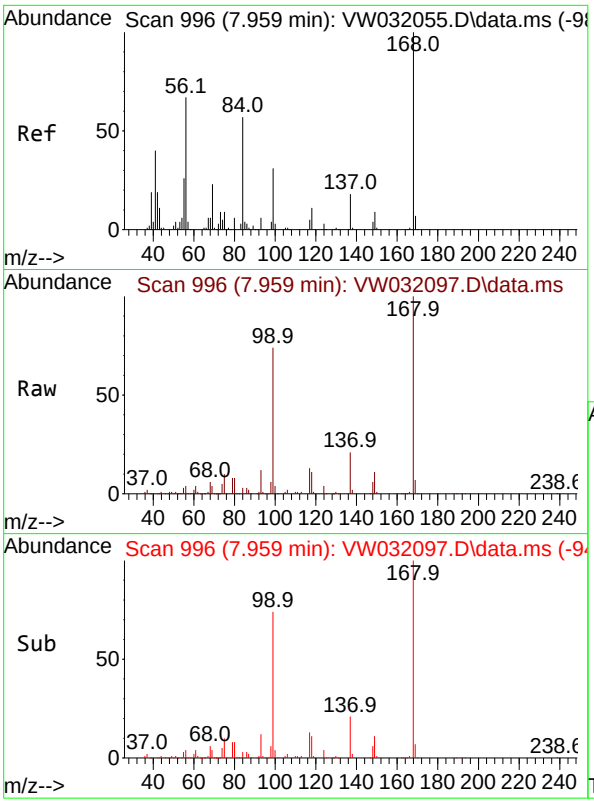
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032097.D
Acq On : 14 Aug 2025 16:32
Operator : SY/MD
Sample : Q2820-14
Misc : 7.65g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Quant Time: Aug 18 03:54:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



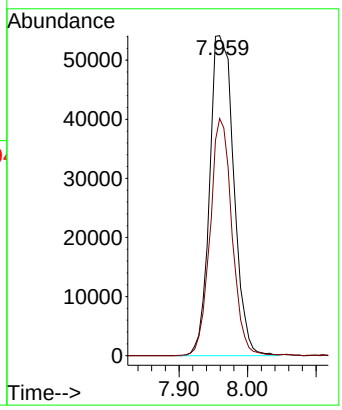


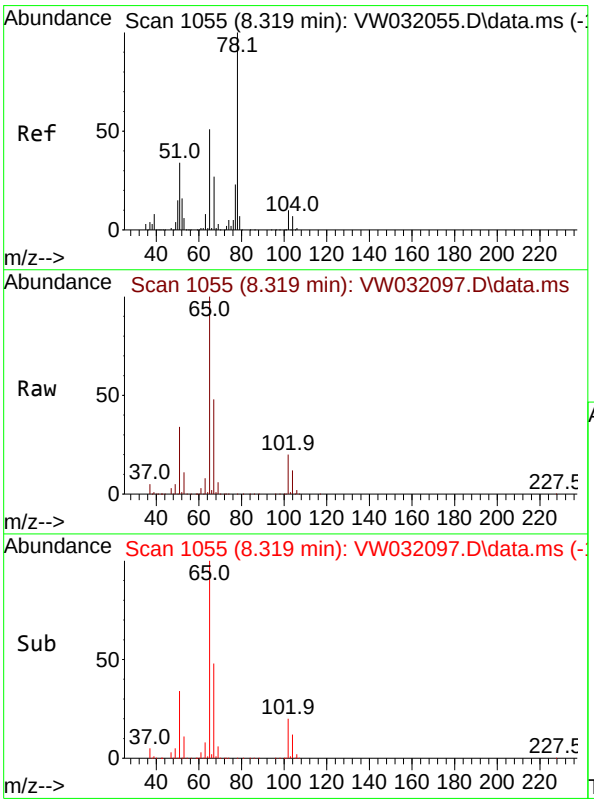
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Tgt Ion:168 Resp: 132278

Ion	Ratio	Lower	Upper
168	100		
99	74.0	56.0	84.0

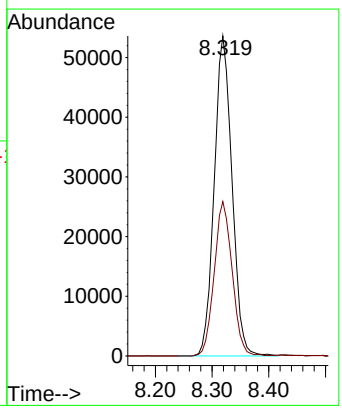


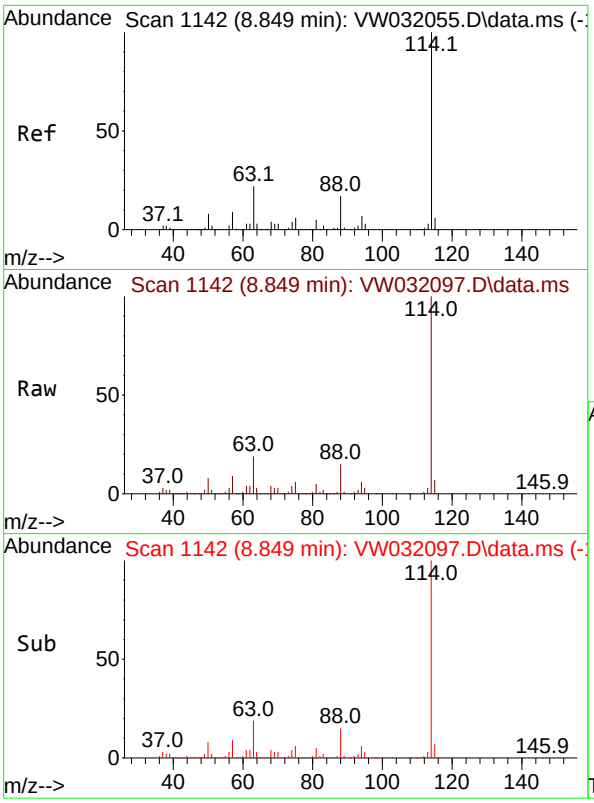


#33
1,2-Dichloroethane-d4
Concen: 61.092 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Tgt Ion: 65 Resp: 116875

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	102.4



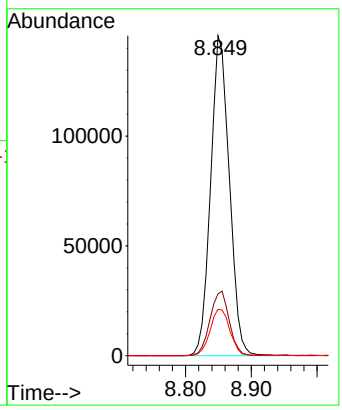


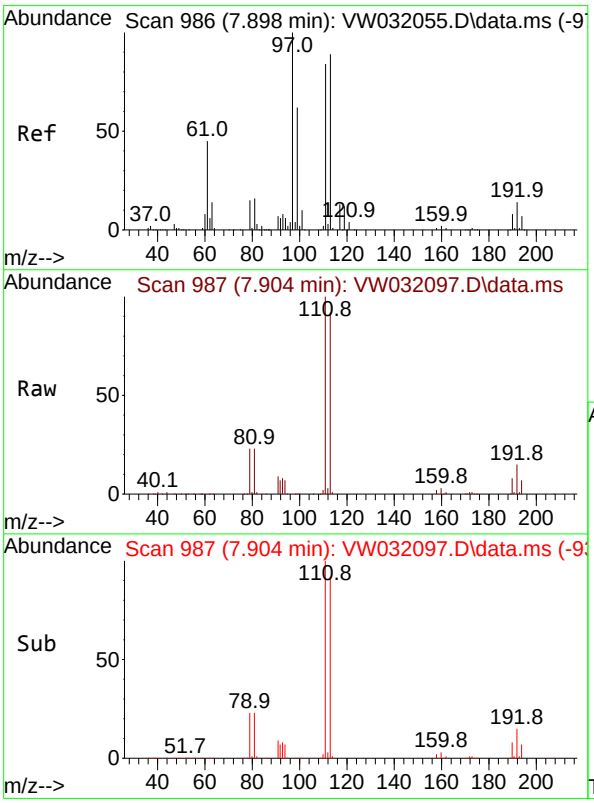
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Tgt Ion:114 Resp: 288474

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	43.0
88	14.5	0.0	33.8

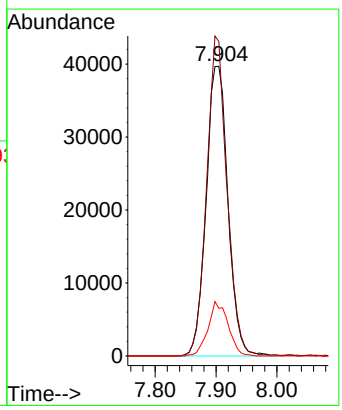


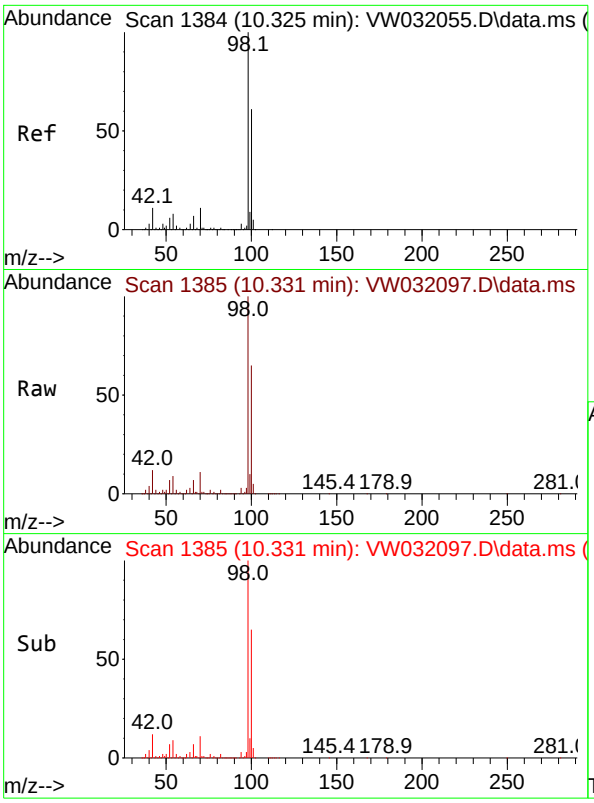


#35
Dibromofluoromethane
Concen: 53.055 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Tgt Ion:113 Resp: 98877

Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.1	120.1
192	17.3	13.1	19.7



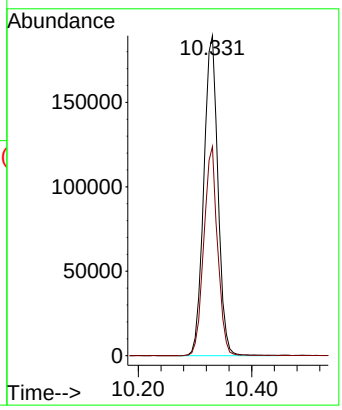


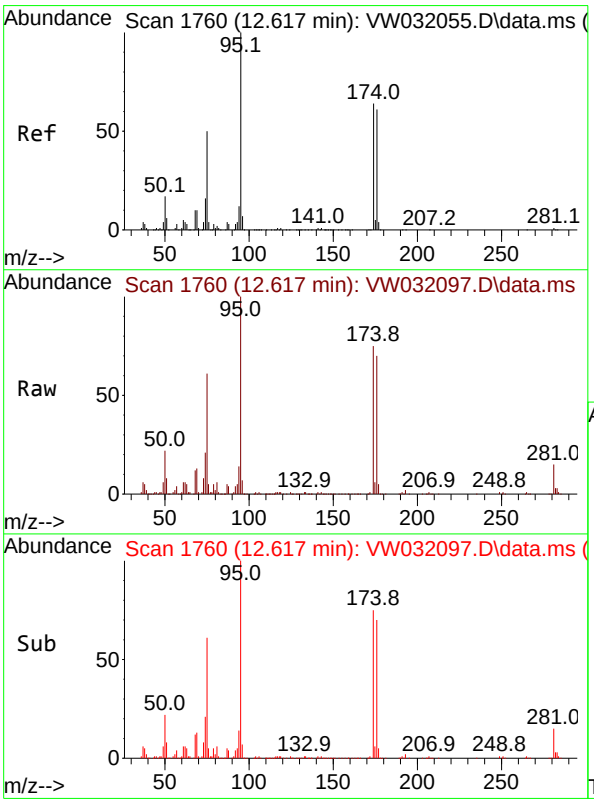
#50
Toluene-d8
Concen: 47.654 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Tgt Ion: 98 Resp: 328487

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7

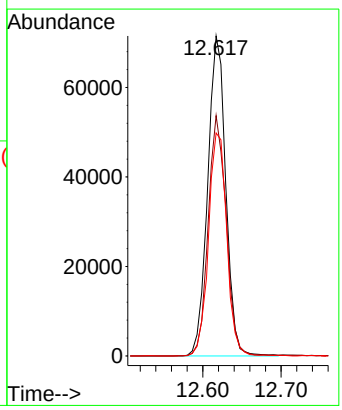


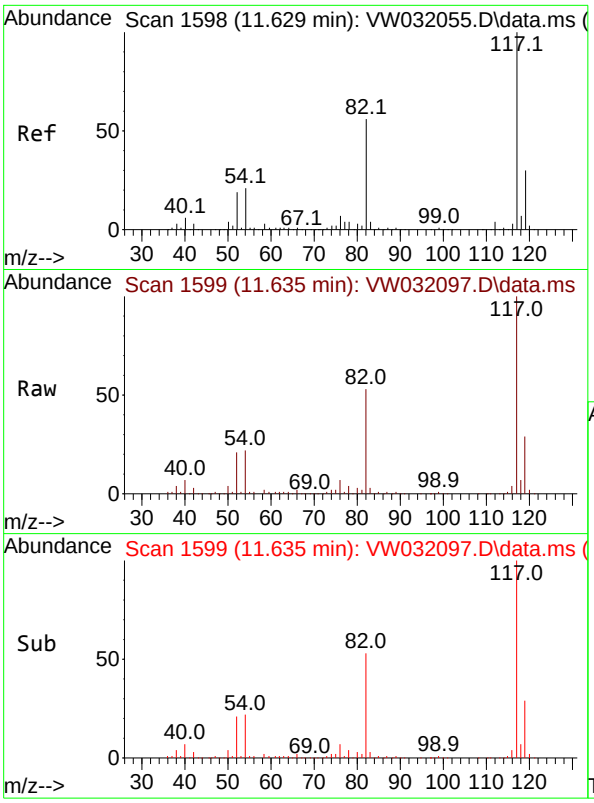


#62
4-Bromofluorobenzene
Concen: 45.092 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Tgt Ion: 95 Resp: 114543

Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	129.0
176	70.5	0.0	124.6



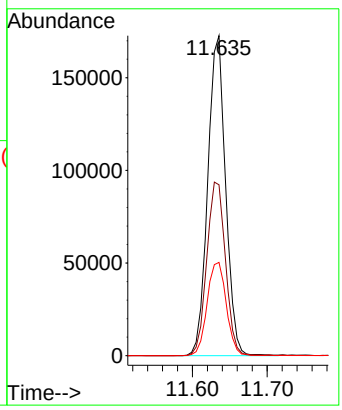


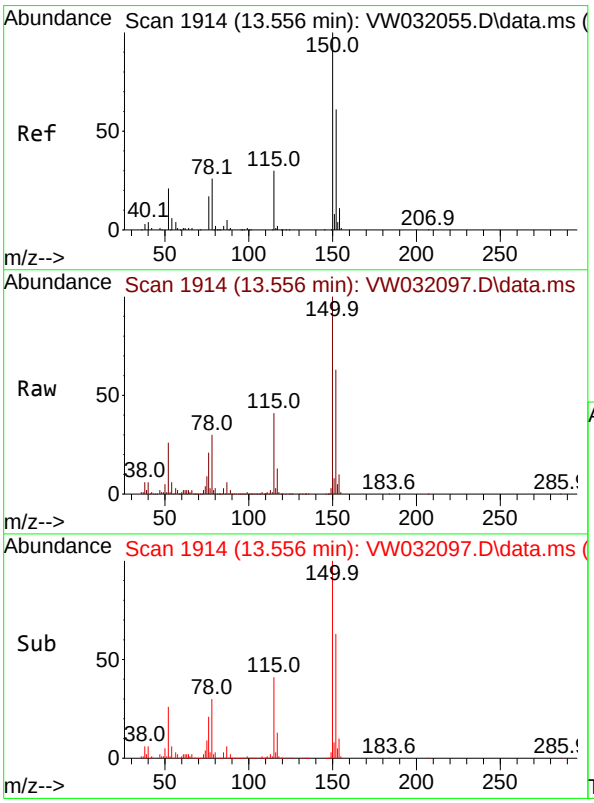
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Tgt Ion:117 Resp: 286427

Ion	Ratio	Lower	Upper
117	100		
82	53.3	45.0	67.4
119	29.2	24.2	36.4

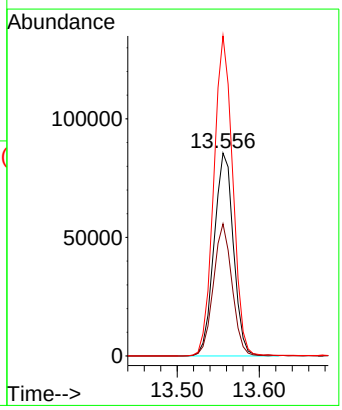




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032097.D
Acq: 14 Aug 2025 16:32

Tgt Ion:152 Resp: 140063

Ion	Ratio	Lower	Upper
152	100		
115	62.7	32.6	97.8
150	155.1	0.0	359.4



Sample Results: **VW032097.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032097.D
Acq On : 14 Aug 2025 16:32
Operator : SY/MD
Sample : Q2820-14
Misc : 7.65g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-E

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032097.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	493	504	512	rBV6	6455	26250	2.83%	0.492%
2	7.898	976	986	991	rBV	140621	335224	36.10%	6.280%
3	7.959	991	996	1009	rVB	192462	452509	48.73%	8.477%
4	8.319	1046	1055	1067	rBV	143115	317360	34.17%	5.945%
5	8.849	1134	1142	1157	rBV	345595	706343	76.06%	13.232%
6	10.331	1376	1385	1393	rBV	505042	895154	96.39%	16.769%
7	11.629	1590	1598	1607	rBV	537062	928694	100.00%	17.398%
8	12.617	1748	1760	1771	rBV2	407797	728644	78.46%	13.650%
9	13.556	1907	1914	1922	rBV	569922	905605	97.51%	16.965%
10	14.062	1989	1997	2002	rBV2	17661	31839	3.43%	0.596%
11	14.714	2096	2104	2110	rBV9	4613	10452	1.13%	0.196%

Sum of corrected areas: 5338074

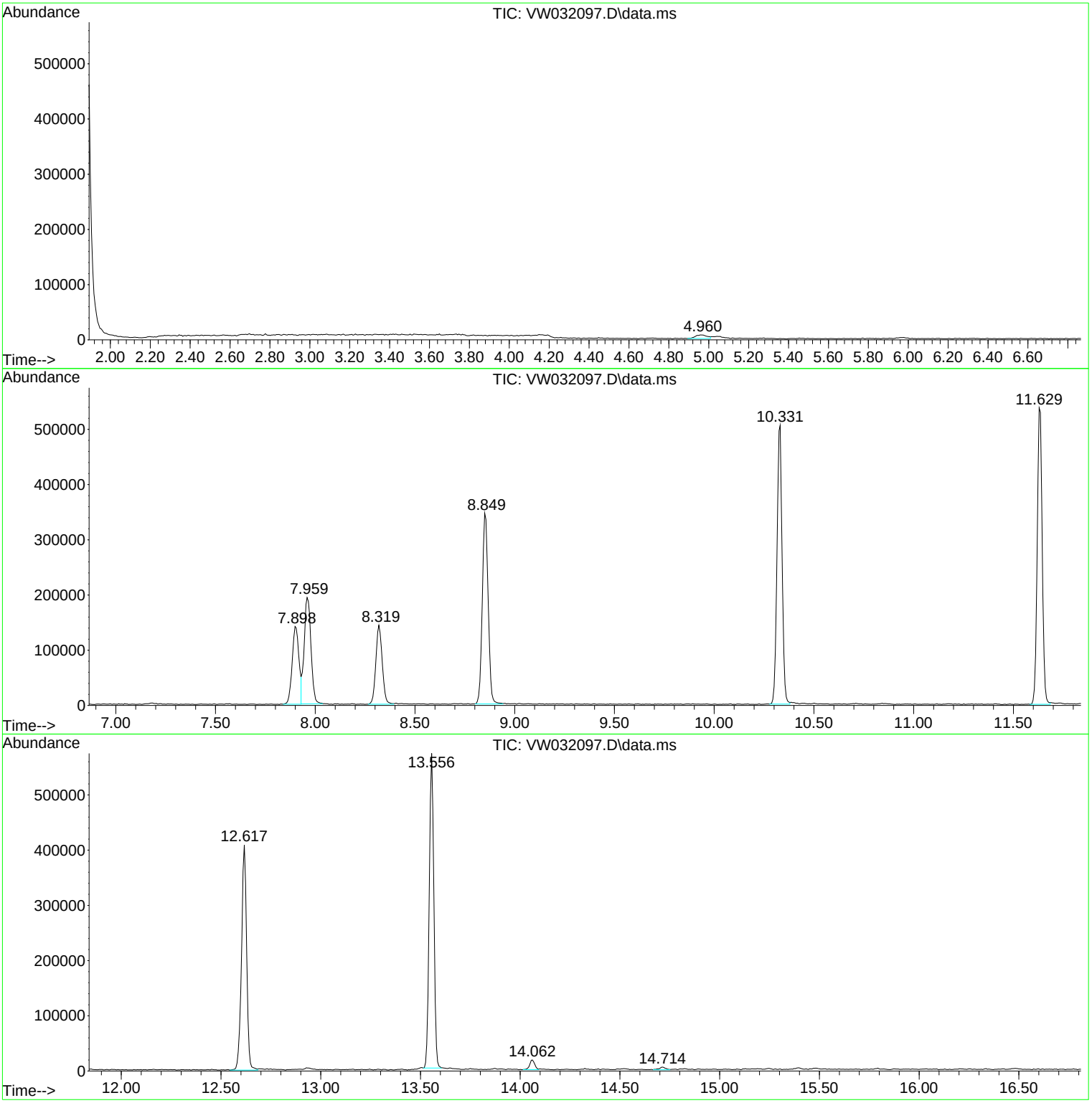
Sample Results: **VW032097.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032097.D
Acq On : 14 Aug 2025 16:32
Operator : SY/MD
Sample : Q2820-14
Misc : 7.65g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032097.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032097.D
Acq On : 14 Aug 2025 16:32
Operator : SY/MD
Sample : Q2820-14
Misc : 7.65g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032097.D
Acq On : 14 Aug 2025 16:32
Operator : SY/MD
Sample : Q2820-14
Misc : 7.65g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY023142.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-15	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.5
Sample Wt/Vol:	7.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023142.D	1	08/19/25 11:44	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.90	U	0.83	2.90	3.60	ug/Kg
74-87-3	Chloromethane	1.80	U	0.83	1.80	3.60	ug/Kg
75-01-4	Vinyl Chloride	1.80	U	0.58	1.80	3.60	ug/Kg
74-83-9	Bromomethane	2.90	U	0.78	2.90	3.60	ug/Kg
75-00-3	Chloroethane	1.80	U	0.92	1.80	3.60	ug/Kg
75-69-4	Trichlorofluoromethane	2.90	U	0.88	2.90	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	0.77	1.80	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	0.73	1.80	3.60	ug/Kg
67-64-1	Acetone	14.6	U	3.50	14.6	18.2	ug/Kg
75-15-0	Carbon Disulfide	2.90	U	0.77	2.90	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	0.53	1.80	3.60	ug/Kg
79-20-9	Methyl Acetate	2.90	U	1.10	2.90	3.60	ug/Kg
75-09-2	Methylene Chloride	5.80	U	2.60	5.80	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.80	U	0.63	1.80	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	1.80	U	0.58	1.80	3.60	ug/Kg
110-82-7	Cyclohexane	1.80	U	0.58	1.80	3.60	ug/Kg
78-93-3	2-Butanone	14.6	U	4.80	14.6	18.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.80	U	0.71	1.80	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.80	U	0.55	1.80	3.60	ug/Kg
74-97-5	Bromochloromethane	2.90	U	0.84	2.90	3.60	ug/Kg
67-66-3	Chloroform	2.90	U	0.61	2.90	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	0.68	1.80	3.60	ug/Kg
108-87-2	Methylcyclohexane	1.80	U	0.66	1.80	3.60	ug/Kg
71-43-2	Benzene	1.80	U	0.58	1.80	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	1.80	U	0.58	1.80	3.60	ug/Kg
79-01-6	Trichloroethene	1.80	U	0.59	1.80	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	0.66	1.80	3.60	ug/Kg
75-27-4	Bromodichloromethane	1.80	U	0.57	1.80	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.10	U	2.60	9.10	18.2	ug/Kg
108-88-3	Toluene	1.80	U	0.57	1.80	3.60	ug/Kg

Raw Data: **VY023142.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-15	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.5
Sample Wt/Vol:	7.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023142.D	1	08/19/25 11:44	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.80	U	0.47	1.80	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.80	U	0.45	1.80	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.80	U	0.67	1.80	3.60	ug/Kg
591-78-6	2-Hexanone	9.10	U	2.70	9.10	18.2	ug/Kg
124-48-1	Dibromochloromethane	1.80	U	0.63	1.80	3.60	ug/Kg
106-93-4	1,2-Dibromoethane	1.80	U	0.64	1.80	3.60	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	0.77	1.80	3.60	ug/Kg
108-90-7	Chlorobenzene	1.80	U	0.66	1.80	3.60	ug/Kg
100-41-4	Ethyl Benzene	1.80	U	0.49	1.80	3.60	ug/Kg
179601-23-1	m/p-Xylenes	3.60	U	0.90	3.60	7.30	ug/Kg
95-47-6	o-Xylene	1.80	U	0.60	1.80	3.60	ug/Kg
100-42-5	Styrene	1.80	U	0.52	1.80	3.60	ug/Kg
75-25-2	Bromoform	1.80	U	0.63	1.80	3.60	ug/Kg
98-82-8	Isopropylbenzene	1.80	U	0.57	1.80	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.80	U	0.88	1.80	3.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.20	1.80	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.10	1.80	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.10	1.80	3.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.90	U	1.30	2.90	3.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.20	2.90	3.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.30	2.90	3.60	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		71 - 136		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	51.2		85 - 116		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		79 - 119		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	633000	7.707				
540-36-3	1,4-Difluorobenzene	1170000	8.615				
3114-55-4	Chlorobenzene-d5	1040000	11.413				
3855-82-1	1,4-Dichlorobenzene-d4	448000	13.346				
TENTATIVE IDENTIFIED COMPOUNDS							

Raw Data: **VY023142.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-15	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.5
Sample Wt/Vol:	7.75 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023142.D	1	08/19/25 11:44	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
004057-42-5	2-Octene, 2,6-dimethyl-	11.5	J			12.6	ug/Kg
	unknown12.651	6.90	J			12.7	ug/Kg
	unknown12.730	15.0	J			12.7	ug/Kg
1000195-06-9	3,4-Dimethylpent-2-en-1-ol	9.20	J			13.0	ug/Kg
001678-98-4	Cyclohexane, (2-methylpropyl)-	13.5	J			13.2	ug/Kg
1000372-78-8	Isobutyl undecyl carbonate	6.60	J			13.3	ug/Kg
071186-27-1	1-Ethyl-2,2,6-trimethylcyclohexane	6.10	J			13.5	ug/Kg
000091-17-8	Naphthalene, decahydro-	19.2	J			13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	12.8	J			14.2	ug/Kg
1000155-85-6	cis-Decalin, 2-syn-methyl-	6.20	J			14.3	ug/Kg

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Time: Aug 20 01:27:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	632809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1165930	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	1040807	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	447912	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	320627	53.162	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.320%			
35) Dibromofluoromethane	7.634	113	366670	52.557	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.120%			
50) Toluene-d8	10.103	98	1396429	51.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.480%			
62) 4-Bromofluorobenzene	12.401	95	439799	50.177	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.360%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	36231	2.769	ug/l	92

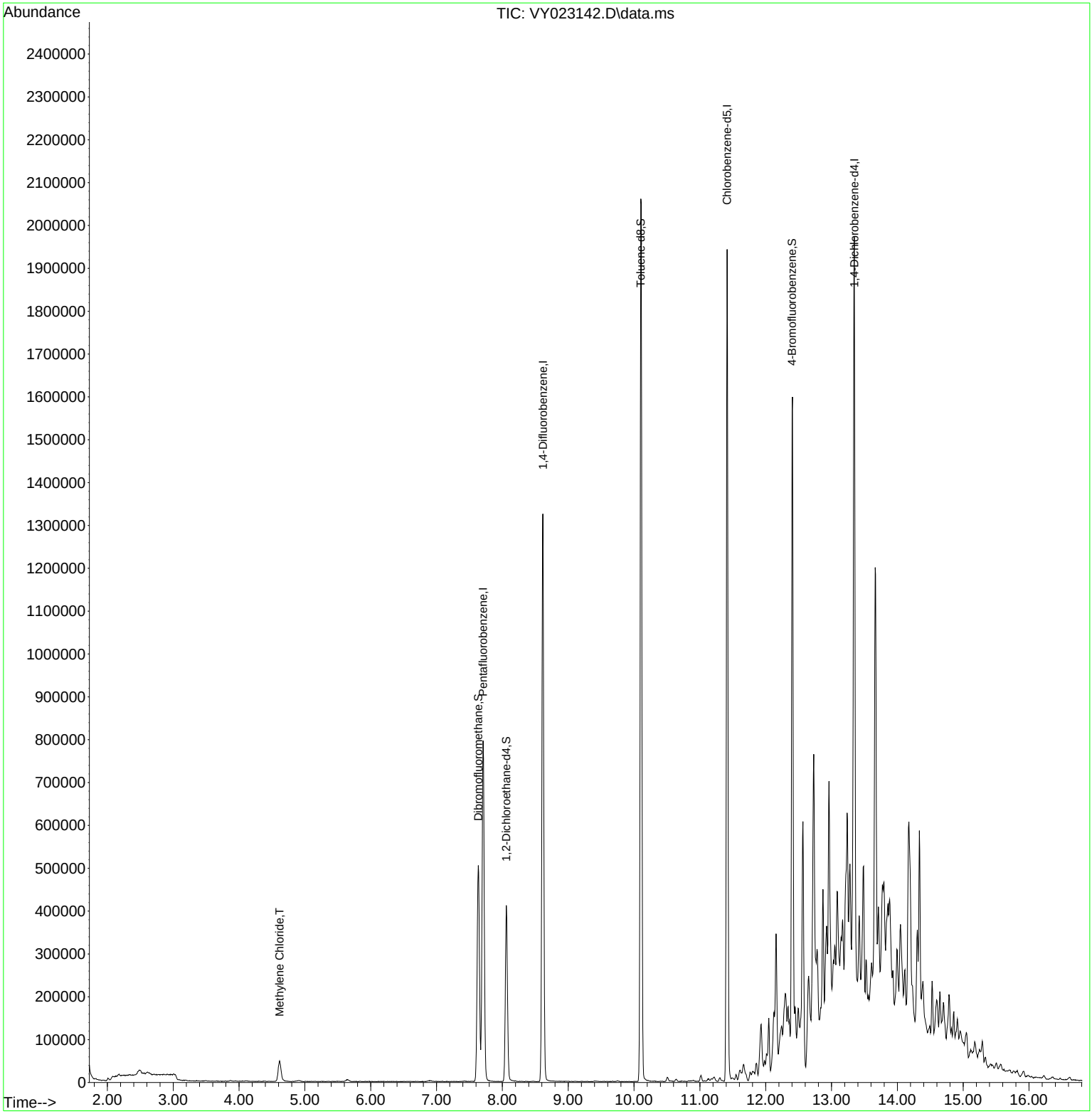
(#) = qualifier out of range (m) = manual integration (+) = signals summed

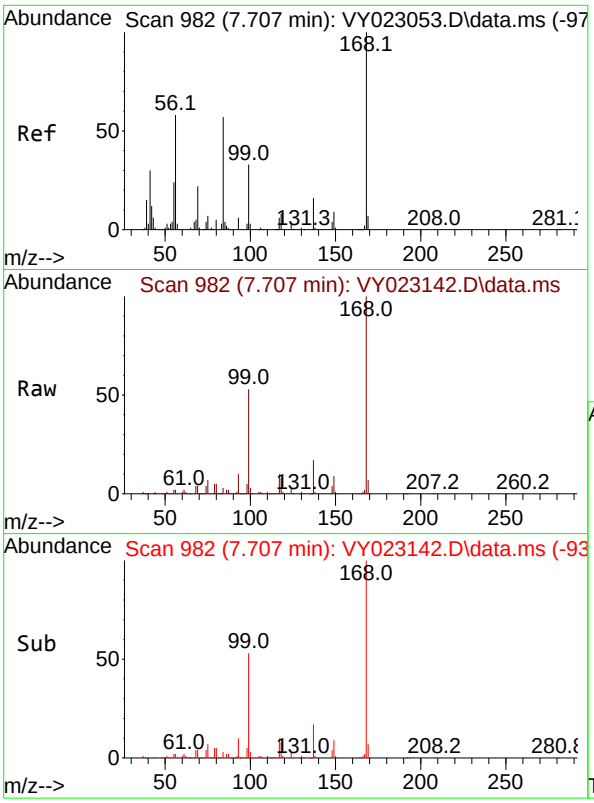
Sample Results: **VY023142.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Time: Aug 20 01:27:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



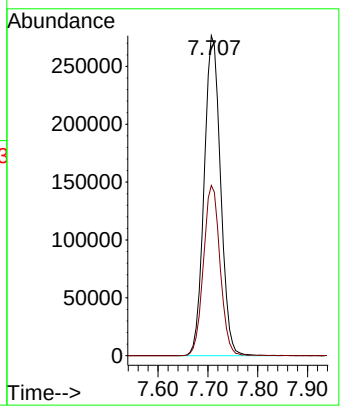


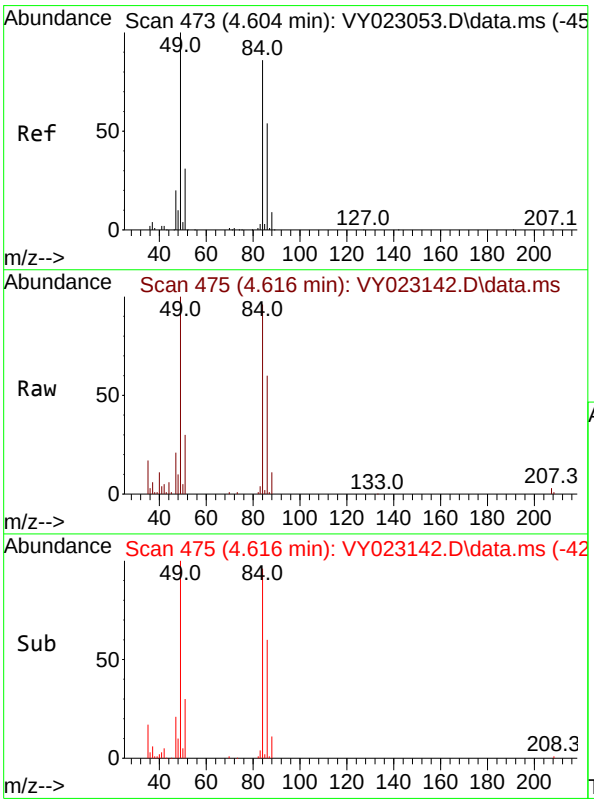
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Tgt Ion:168 Resp: 632809

Ion	Ratio	Lower	Upper
168	100		
99	53.2	42.8	64.2

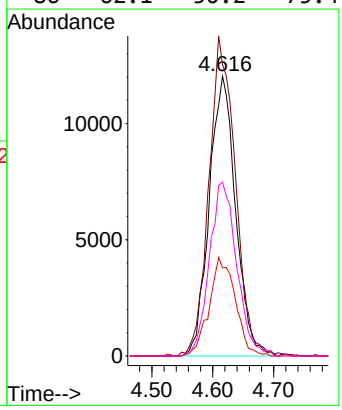


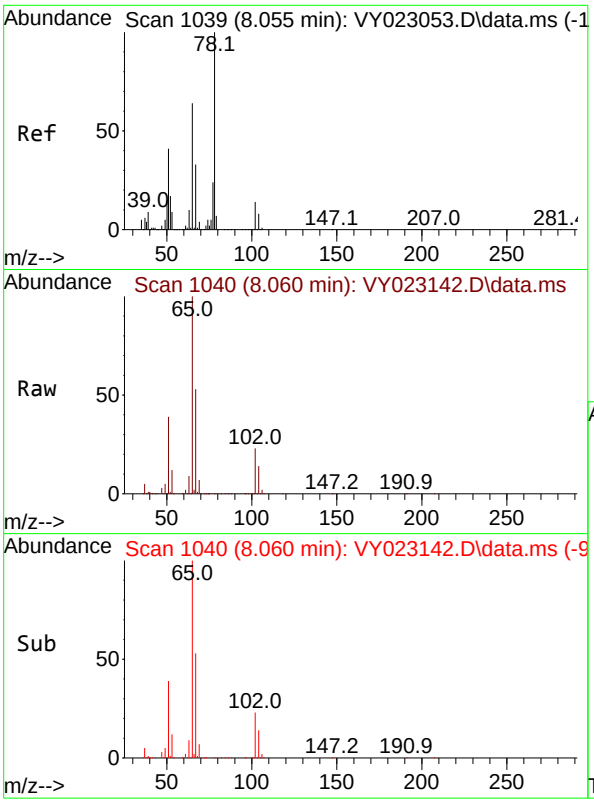


#20
Methylene Chloride
Concen: 2.769 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Tgt Ion: 84 Resp: 36231

Ion	Ratio	Lower	Upper
84	100		
49	104.2	93.0	139.6
51	31.6	29.0	43.4
86	62.1	50.2	75.4



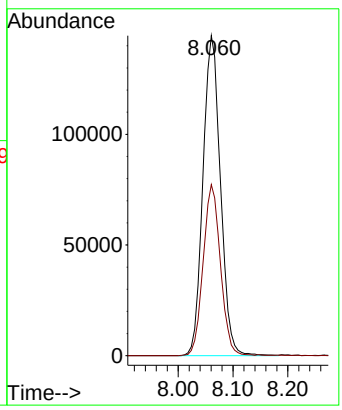


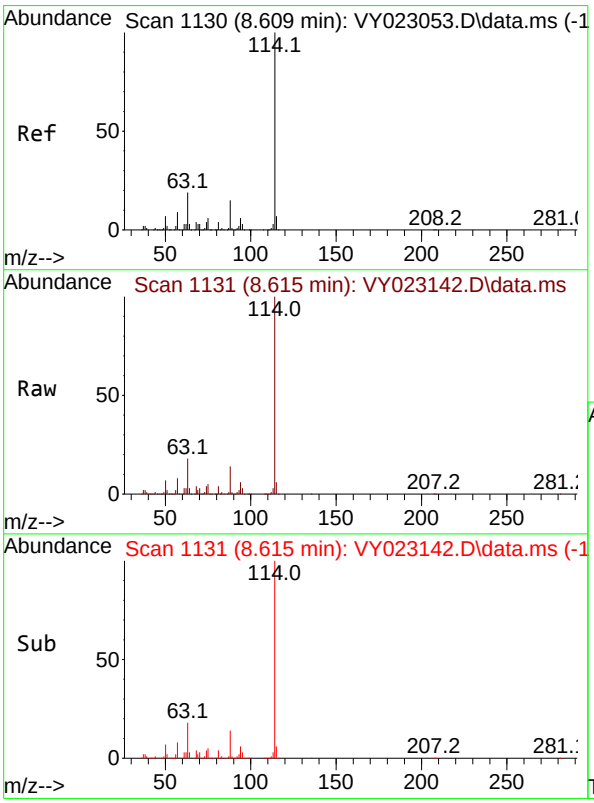
#33
1,2-Dichloroethane-d4
Concen: 53.162 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Tgt Ion: 65 Resp: 320627

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.8

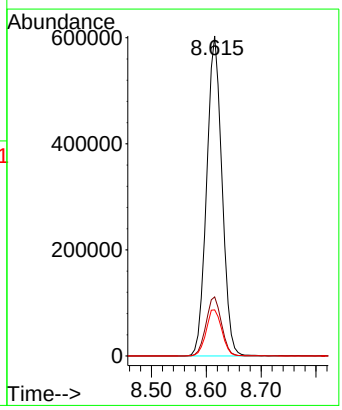


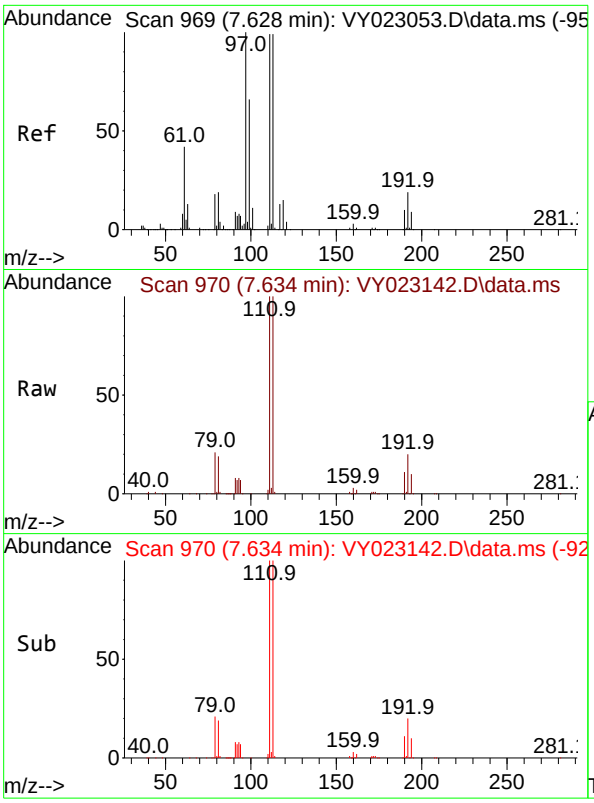


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Tgt Ion:114 Resp: 1165930

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	38.4
88	14.4	0.0	30.0



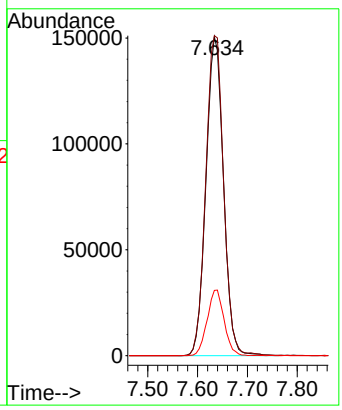


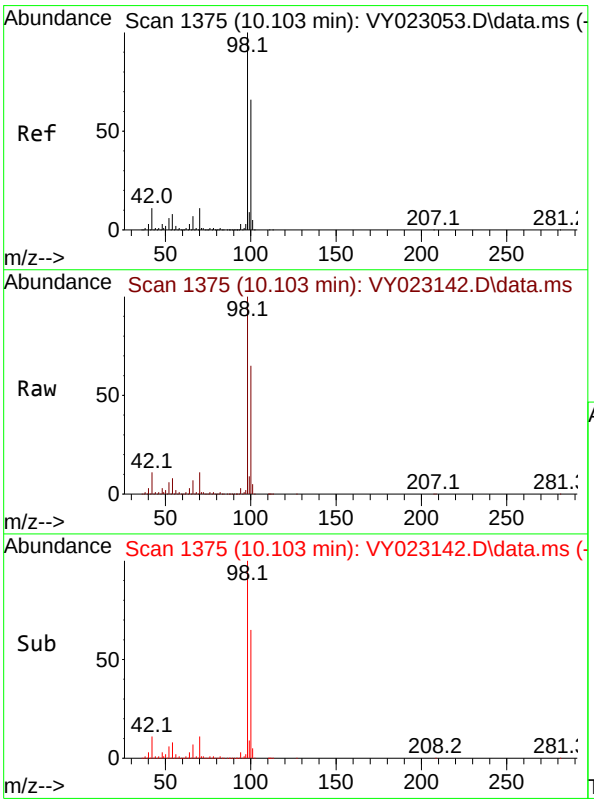
#35
Dibromofluoromethane
Concen: 52.557 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Tgt Ion:113 Resp: 366670

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.1	121.7
192	20.0	16.2	24.4

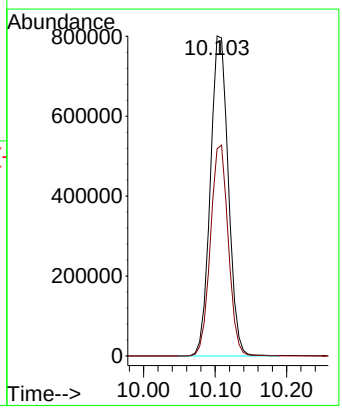


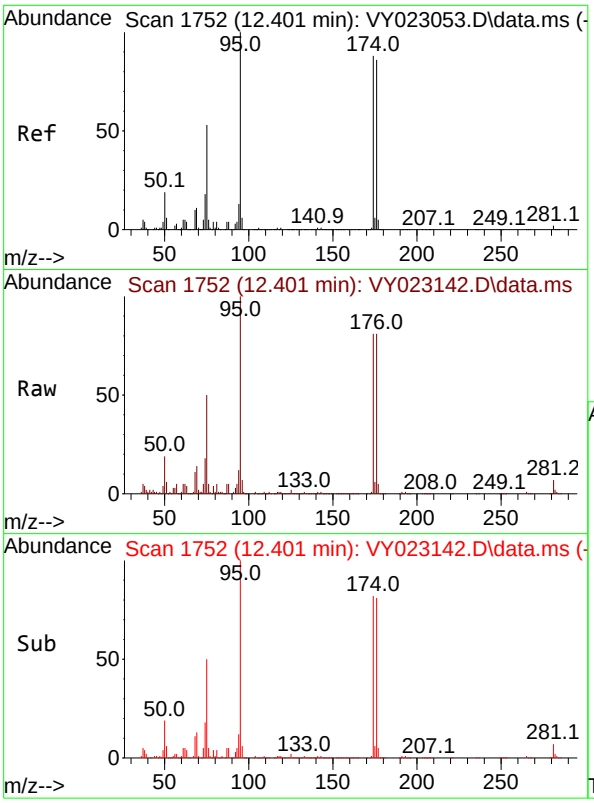


#50
Toluene-d8
Concen: 51.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Tgt Ion: 98 Resp: 1396429

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.3	78.5



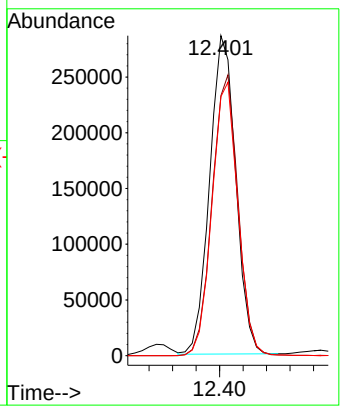


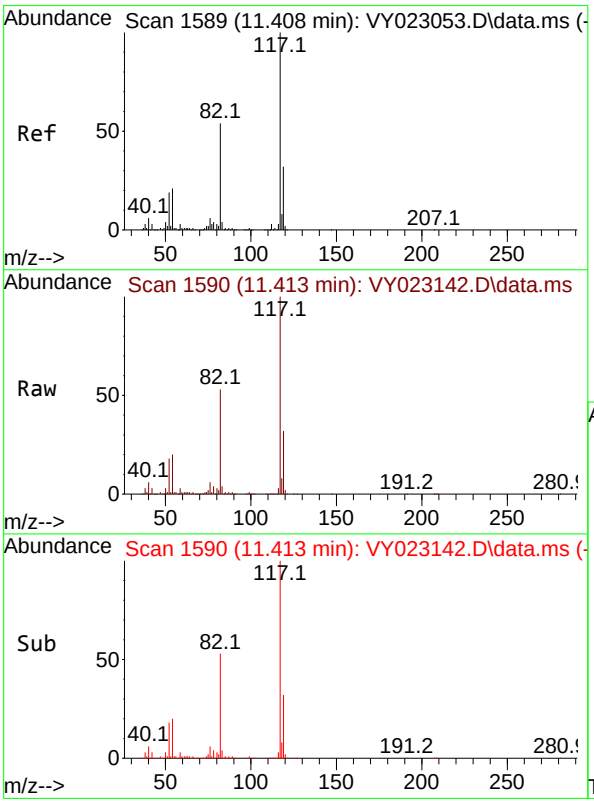
#62
4-Bromofluorobenzene
Concen: 50.177 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Tgt Ion: 95 Resp: 439799

Ion	Ratio	Lower	Upper
95	100		
174	88.1	0.0	171.6
176	85.7	0.0	167.6

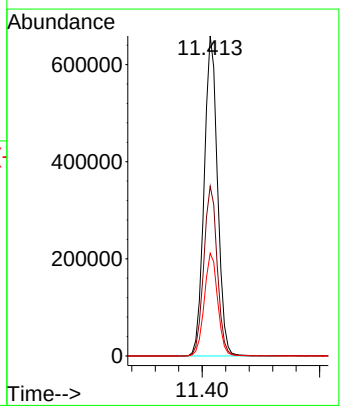


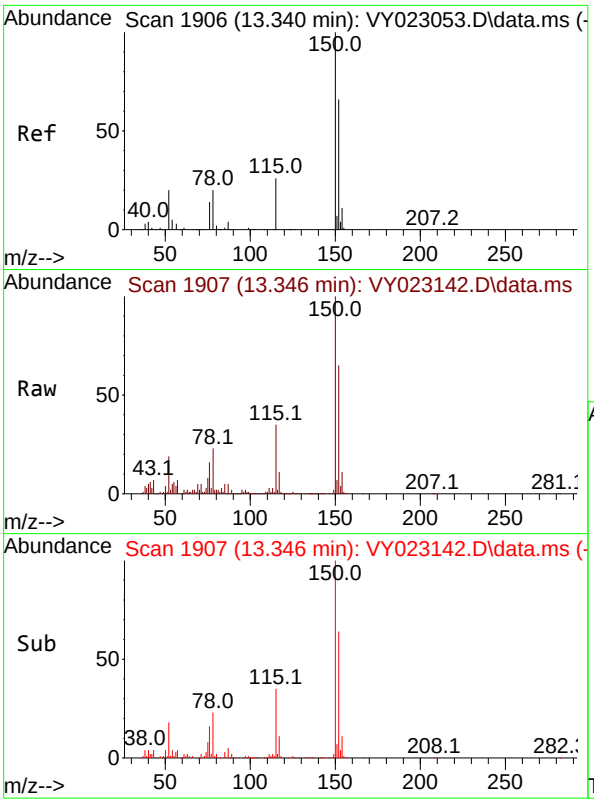


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Tgt Ion:117 Resp: 1040807

Ion	Ratio	Lower	Upper
117	100		
82	53.0	43.4	65.0
119	32.1	25.6	38.4



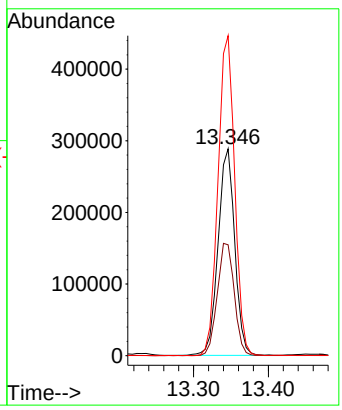


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023142.D
Acq: 19 Aug 2025 11:44

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Tgt Ion:152 Resp: 447912

Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.2	84.6
150	154.9	0.0	348.0



Sample Results: **VY023142.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023142.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	465	475	489	rBV2	47517	147691	4.08%	0.420%
2	7.634	959	970	976	rBV	504503	1224139	33.83%	3.485%
3	7.707	976	982	994	rVB	793116	1809894	50.02%	5.153%
4	8.060	1028	1040	1061	rBV	411321	920185	25.43%	2.620%
5	8.615	1120	1131	1150	rBV	1324839	2614684	72.26%	7.444%
6	10.103	1367	1375	1391	rBV	2059940	3618549	100.00%	10.302%
7	11.413	1583	1590	1600	rBV	1941611	3118063	86.17%	8.877%
8	11.609	1616	1622	1627	rBV5	22489	59370	1.64%	0.169%
9	11.663	1627	1631	1642	rVB4	38014	106840	2.95%	0.304%
10	11.859	1659	1663	1667	rVB3	27733	43445	1.20%	0.124%
11	11.932	1667	1675	1681	rBV4	118751	291106	8.04%	0.829%
12	12.048	1690	1694	1698	rVB	122593	176297	4.87%	0.502%
13	12.127	1698	1707	1708	rBV3	136329	252560	6.98%	0.719%
14	12.157	1708	1712	1718	rVB2	280838	456885	12.63%	1.301%
15	12.243	1718	1726	1728	rBV7	65165	167027	4.62%	0.476%
16	12.297	1729	1735	1739	rBV7	91385	214477	5.93%	0.611%
17	12.340	1739	1742	1747	rVB3	69687	119105	3.29%	0.339%
18	12.407	1747	1753	1758	rBV2	1492663	2420703	66.90%	6.891%
19	12.493	1763	1767	1771	rBV4	69860	119201	3.29%	0.339%
20	12.566	1774	1779	1786	rVB2	573042	1027391	28.39%	2.925%
21	12.651	1786	1793	1799	rBV7	212784	618696	17.10%	1.761%
22	12.730	1799	1806	1812	rBV4	620788	1335291	36.90%	3.801%
23	12.871	1824	1829	1832	rBV3	277102	381940	10.56%	1.087%
24	12.925	1832	1838	1840	rBV3	177460	336948	9.31%	0.959%
25	12.962	1840	1844	1851	rVB2	485267	817526	22.59%	2.327%
26	13.029	1852	1855	1856	rBV2	63519	70236	1.94%	0.200%
27	13.084	1861	1864	1871	rVB5	174202	280213	7.74%	0.798%
28	13.145	1871	1874	1876	rBV2	66750	98939	2.73%	0.282%
29	13.236	1881	1889	1893	rVV5	443886	1199948	33.16%	3.416%
30	13.279	1893	1896	1900	rVV3	322844	589885	16.30%	1.679%
31	13.346	1900	1907	1915	rVV	1783537	3245843	89.70%	9.241%
32	13.419	1915	1919	1923	rVV3	197960	346620	9.58%	0.987%
33	13.486	1925	1930	1934	rVV4	311061	544264	15.04%	1.549%
34	13.523	1934	1936	1941	rVB4	91332	117727	3.25%	0.335%
35	13.663	1953	1959	1964	rBV2	949025	1709448	47.24%	4.867%
36	13.712	1964	1967	1971	rVB2	151420	209140	5.78%	0.595%

Sample Results: **VY023142.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

37	13.773	1972	1977	1979	rBV3	199803	356492	9.85%	1.015%
38	13.858	1985	1991	1992	rBV4	110233	202360	5.59%	0.576%
39	13.992	2010	2013	2018	rBV3	100919	148124	4.09%	0.422%
40	14.047	2018	2022	2029	rVB5	166213	345770	9.56%	0.984%
41	14.114	2030	2033	2036	rVB6	81541	103485	2.86%	0.295%
42	14.175	2037	2043	2051	rBV4	425015	1136811	31.42%	3.236%
43	14.303	2059	2064	2066	rBV2	209923	333886	9.23%	0.951%
44	14.334	2066	2069	2074	rVB	401310	552949	15.28%	1.574%
45	14.529	2097	2101	2105	rVV3	122360	160336	4.43%	0.456%
46	14.596	2107	2112	2117	rVV7	80400	195280	5.40%	0.556%
47	14.645	2117	2120	2124	rVV3	101619	163120	4.51%	0.464%
48	14.699	2126	2129	2136	rVB4	84717	157915	4.36%	0.450%
49	14.785	2136	2143	2147	rBV3	103119	202645	5.60%	0.577%
50	14.858	2151	2155	2158	rVV	62123	74729	2.07%	0.213%
51	14.913	2161	2164	2167	rVB2	46326	59862	1.65%	0.170%
52	15.291	2223	2226	2230	rVB3	48848	75717	2.09%	0.216%
53	15.340	2230	2234	2240	rVB8	24213	46383	1.28%	0.132%

Sum of corrected areas: 35126140

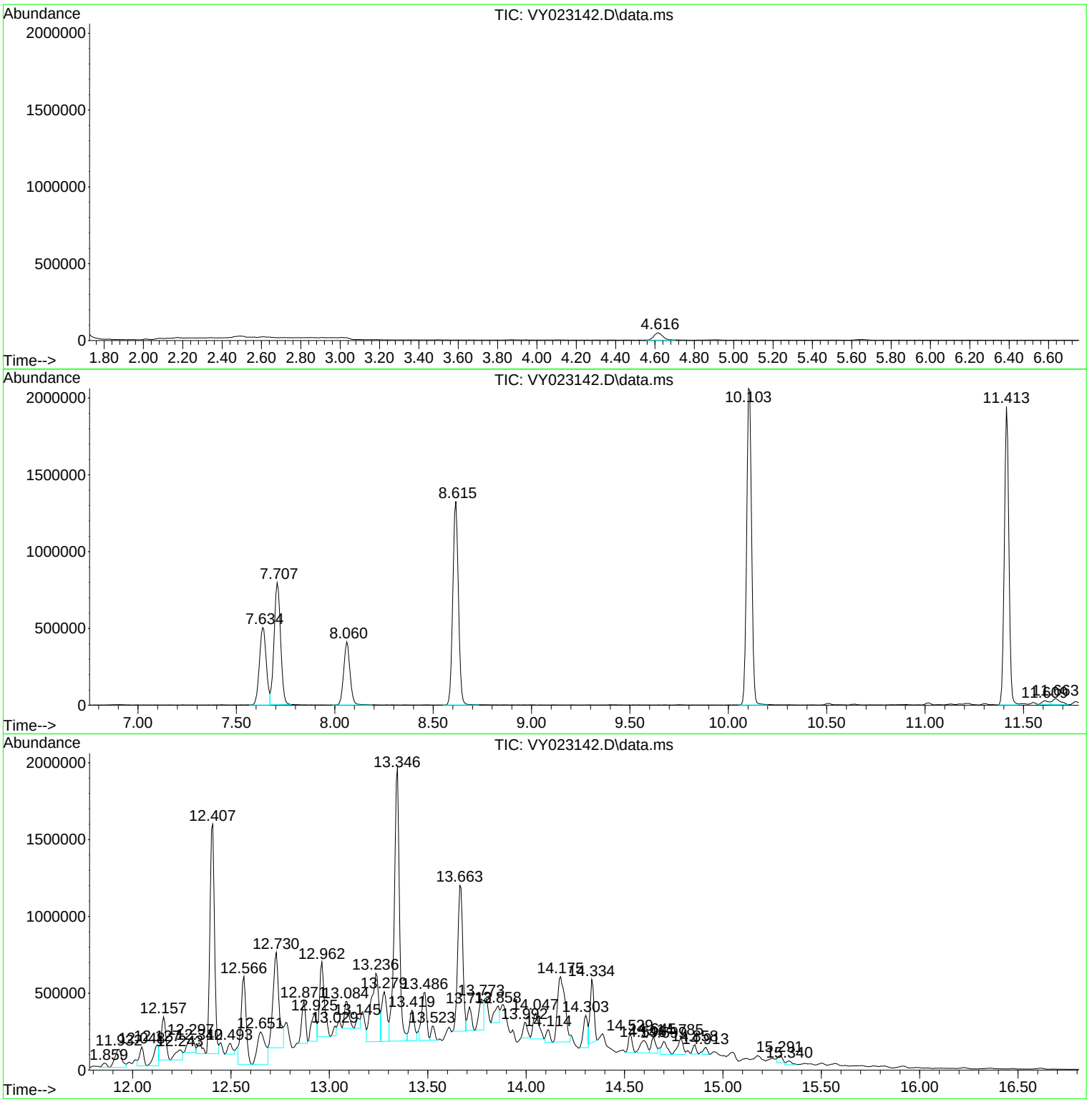
Sample Results: **VY023142.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Sample Results: **VY023142.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

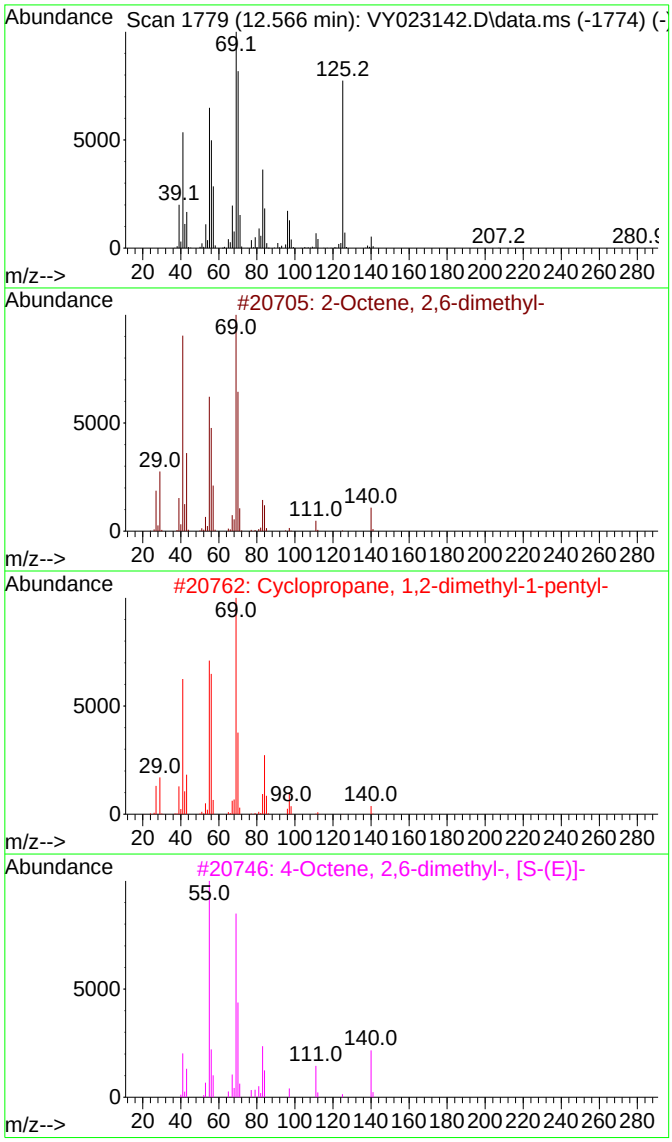
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

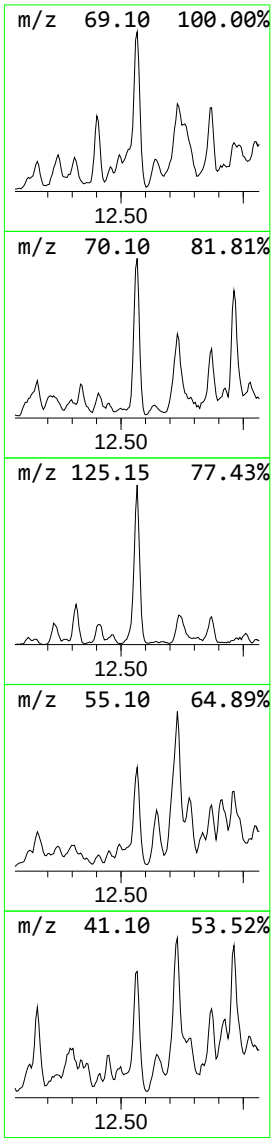
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Octene, 2,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.566	15.83 ug/l	1027390	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	64
2	Cyclopropane, 1,2-dimethyl-1-pen...	140	C10H20	062238-04-4	45
3	4-Octene, 2,6-dimethyl-, [S-(E)]-	140	C10H20	062960-76-3	38
4	cis-1-Butyl-2-methylcyclopropane	112	C8H16	038851-69-3	30
5	1-Decene	140	C10H20	000872-05-9	30





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Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

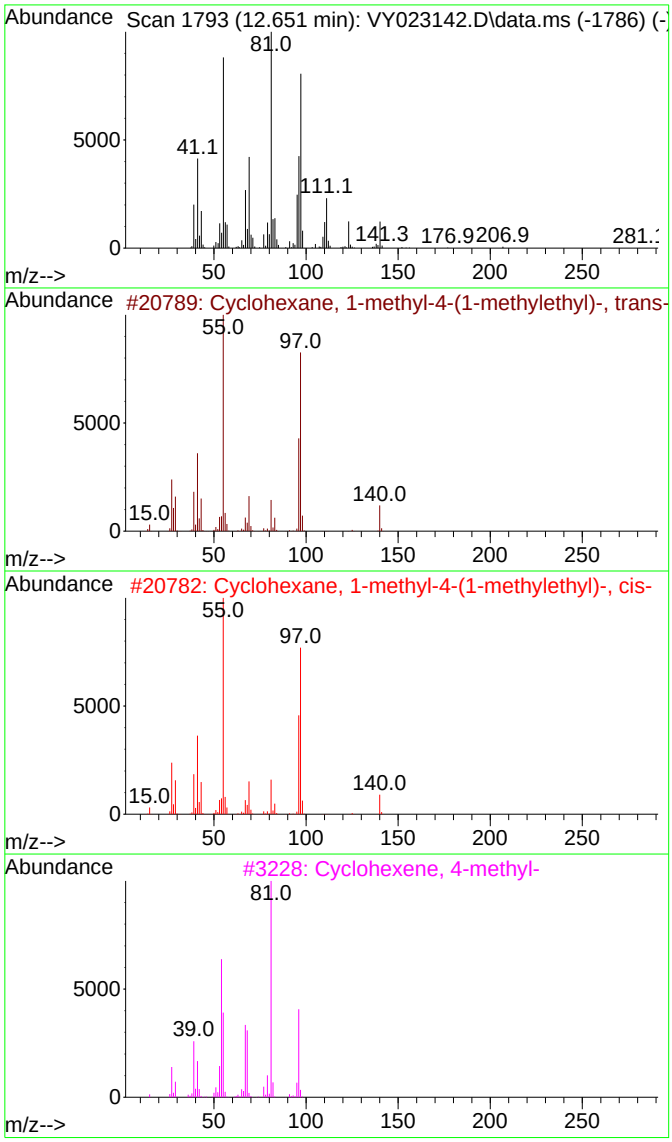
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

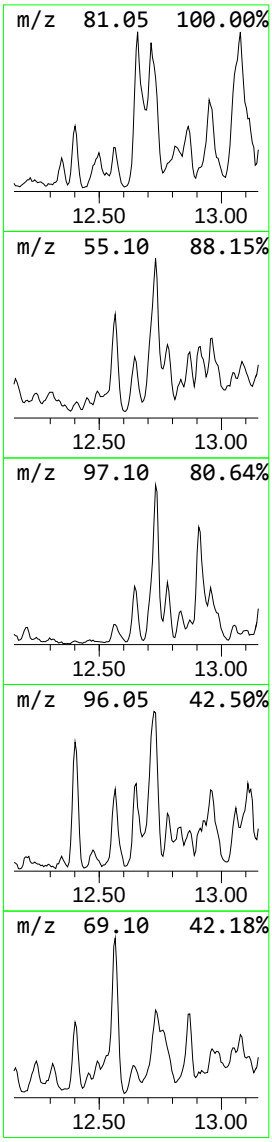
****

Peak Number 2 unknown12.651 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.651	9.53 ug/l	618696	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	46
2	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	46
3	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	43
4	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	43
5	6-Methyl-bicyclo[4.2.0]octan-7-one	138	C9H14O	1010193-87-2	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

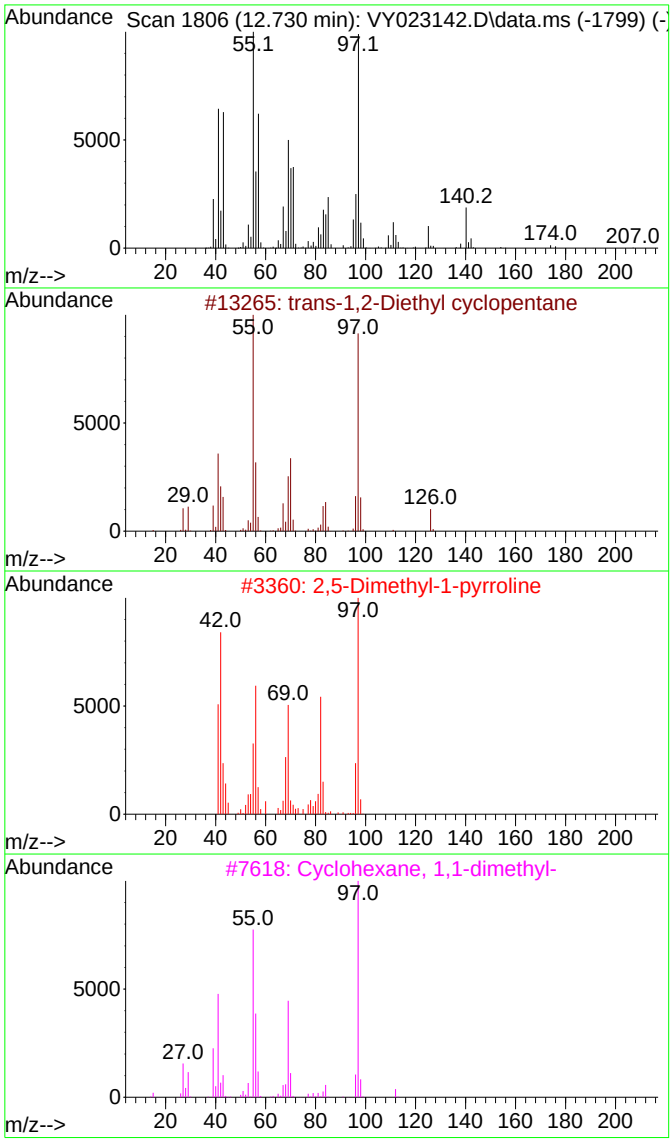
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

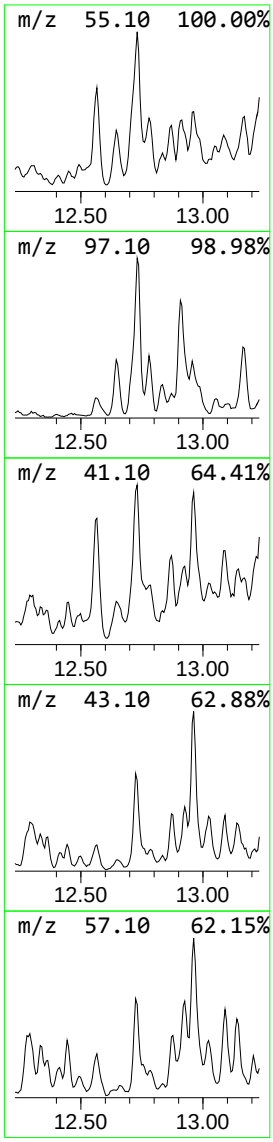
****

Peak Number 3 unknown12.730 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.730	20.57 ug/l	1335290	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-1,2-Diethyl cyclopentane	126	C9H18	000932-40-1	49
2	2,5-Dimethyl-1-pyrroline	97	C6H11N	000822-64-0	46
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	43
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	43
5	1-Hexacosanol	382	C26H54O	000506-52-5	43





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Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

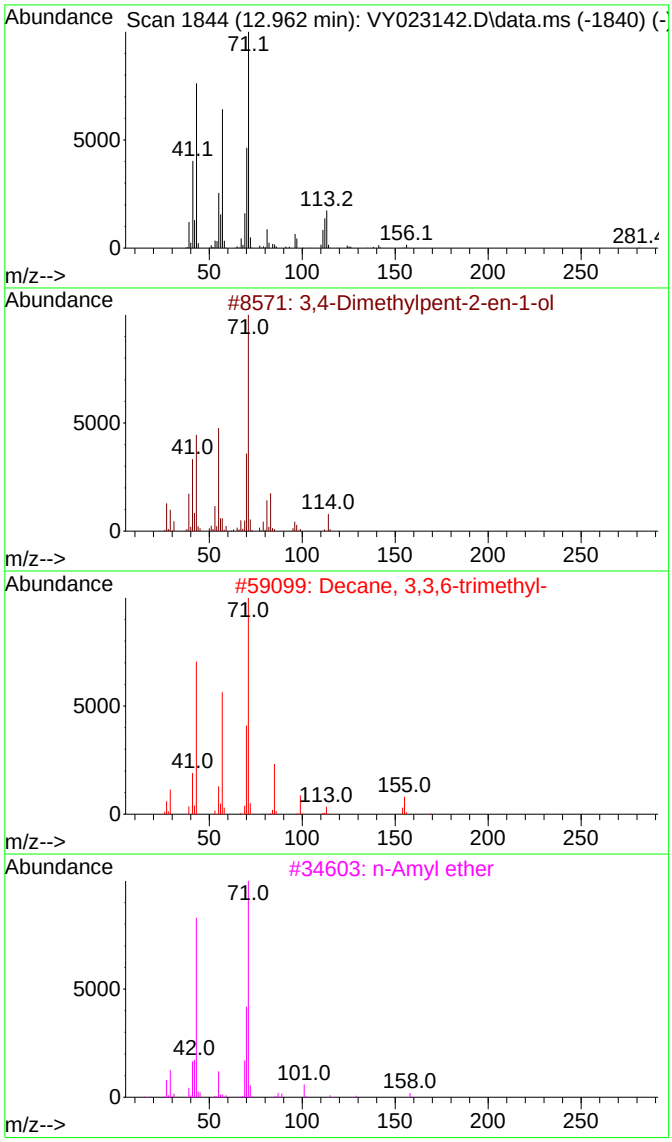
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

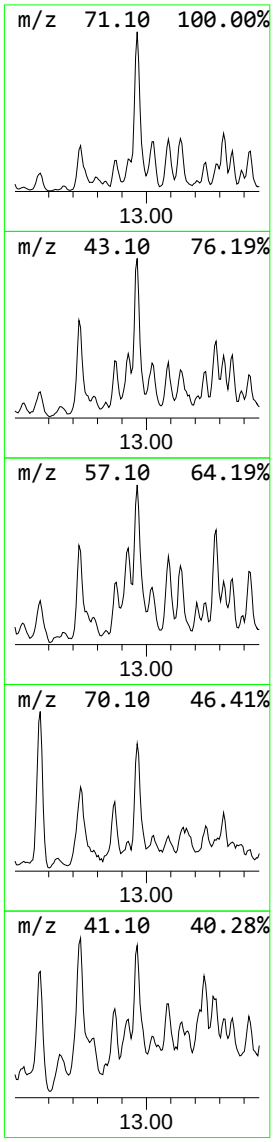
****

Peak Number 4 3,4-Dimethylpent-2-en-1-ol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.962	12.59 ug/l	817526	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dimethylpent-2-en-1-ol	114	C7H14O	1000195-06-9	72
2	Decane, 3,3,6-trimethyl-	184	C13H28	062338-14-1	59
3	n-Amyl ether	158	C10H22O	000693-65-2	59
4	Methoxyacetic acid, 2-octyl ester	202	C11H22O3	1000282-69-6	53
5	Sulfurous acid, nonyl 2-pentyl e...	278	C14H30O3S	1010309-15-8	50





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Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

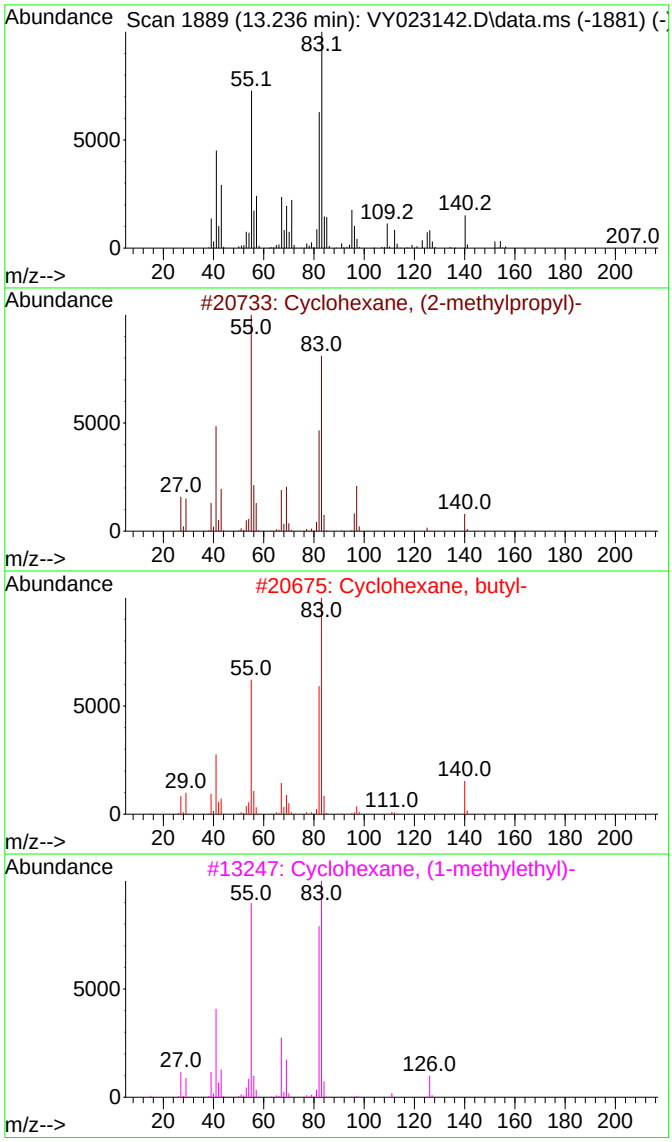
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

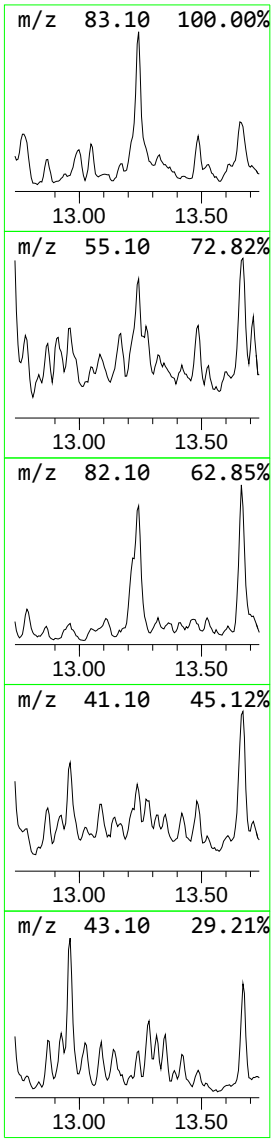
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Cyclohexane, (2-methylpropyl)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.236	18.48 ug/l	1199950	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	68
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	64
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	64
4	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	53
5	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	53





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Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

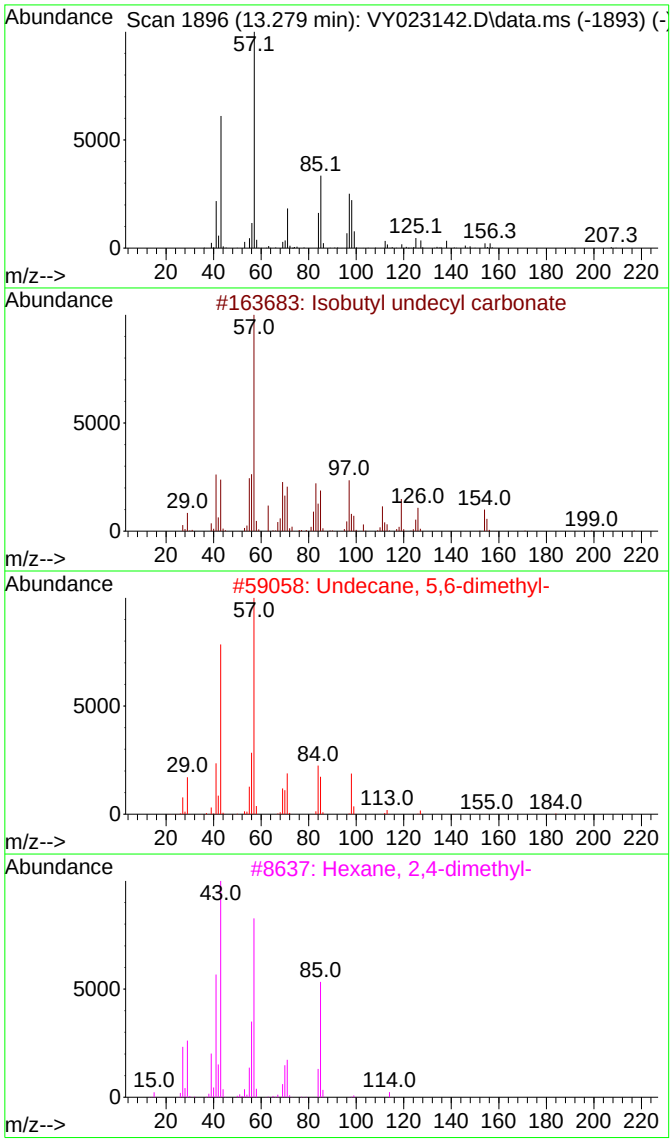
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

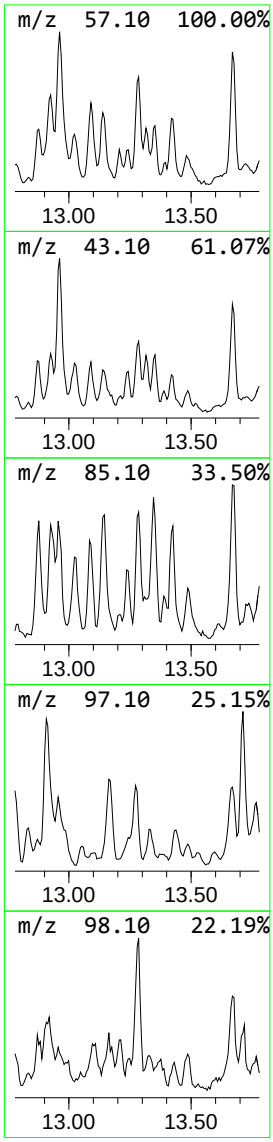
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Isobutyl undecyl carbonate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.279	9.09 ug/l	589885	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutyl undecyl carbonate	272	C16H32O3	1000372-78-8	53
2	Undecane, 5,6-dimethyl-	184	C13H28	017615-91-7	38
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	35
4	Heptane, 2,2,3,3,5,6,6-heptamethyl-	198	C14H30	007225-67-4	35
5	Octane, 3,4,5,6-tetramethyl-	170	C12H26	062185-21-1	35





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Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

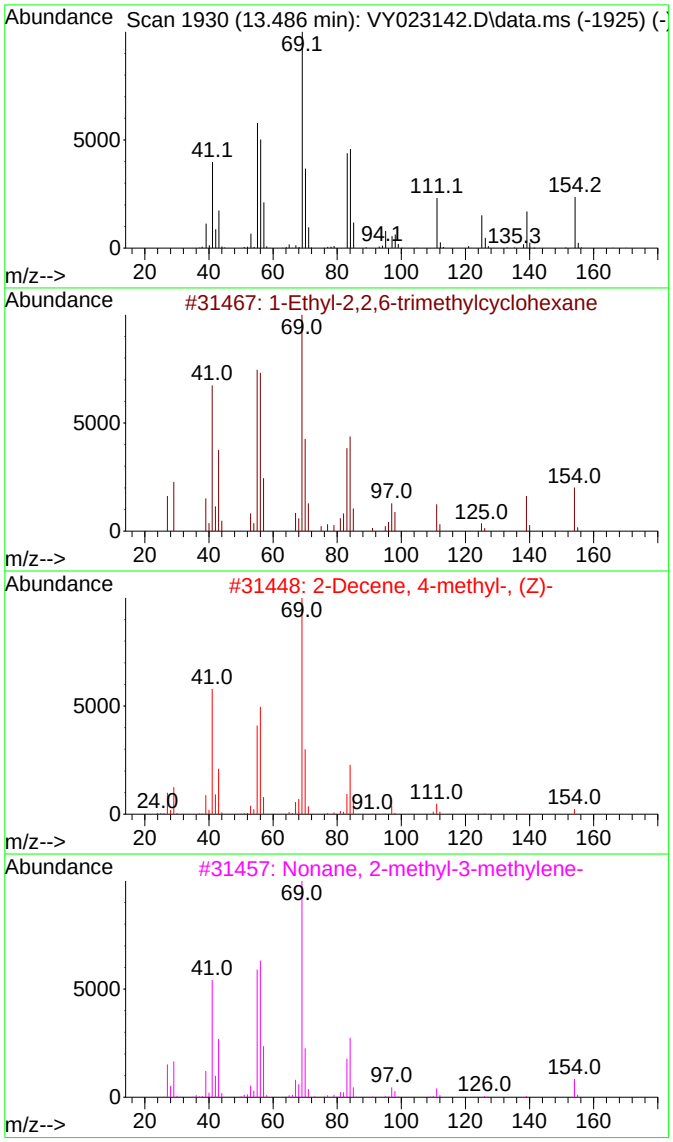
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

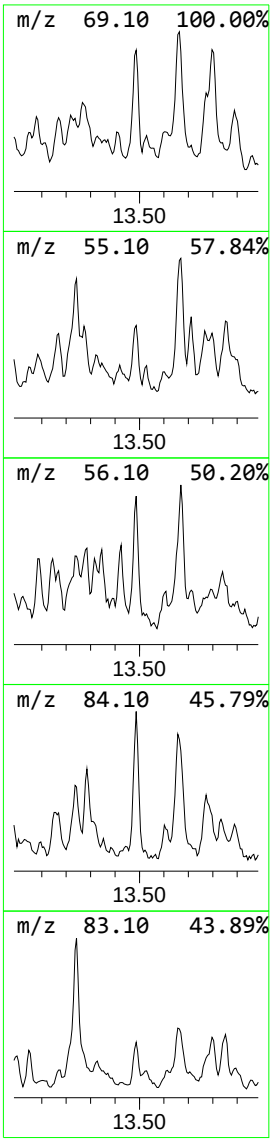
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1-Ethyl-2,2,6-trimethylcycl... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.486	8.38 ug/l	544264	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-2,2,6-trimethylcyclohexane	154	C11H22	071186-27-1	78
2	2-Decene, 4-methyl-, (Z)-	154	C11H22	074630-30-1	72
3	Nonane, 2-methyl-3-methylene-	154	C11H22	055499-08-6	50
4	Cyclopentane, (2-methylbutyl)-	140	C10H20	053366-38-4	49
5	Cyclohexane, 1,1-dimethyl-2-propyl-	154	C11H22	081983-71-3	47





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Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

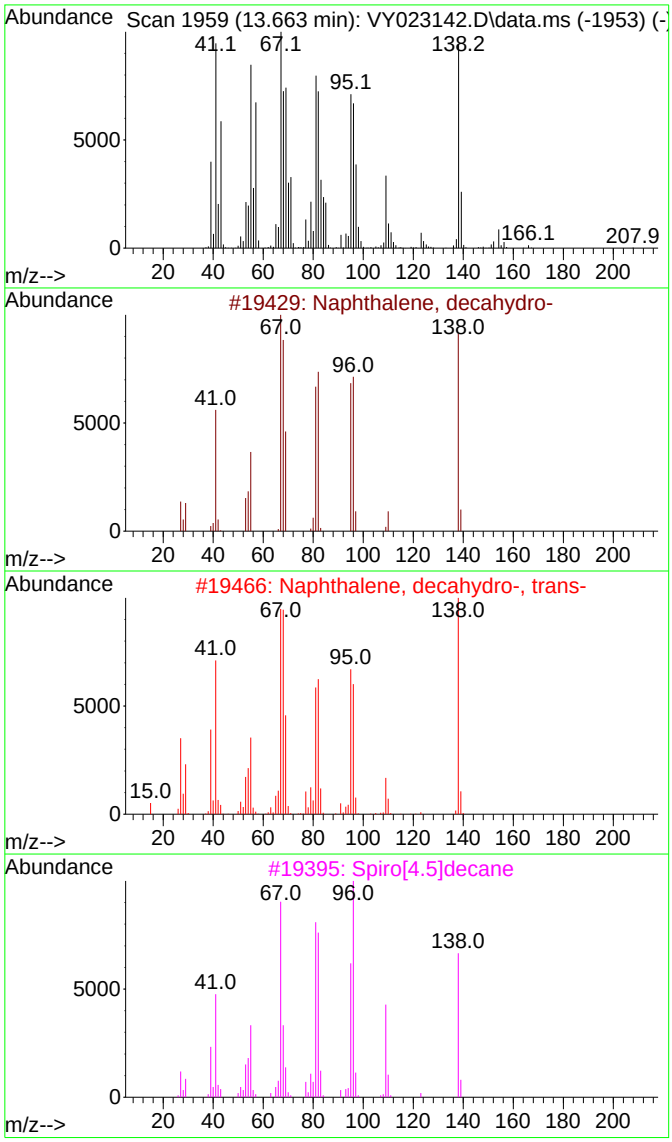
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

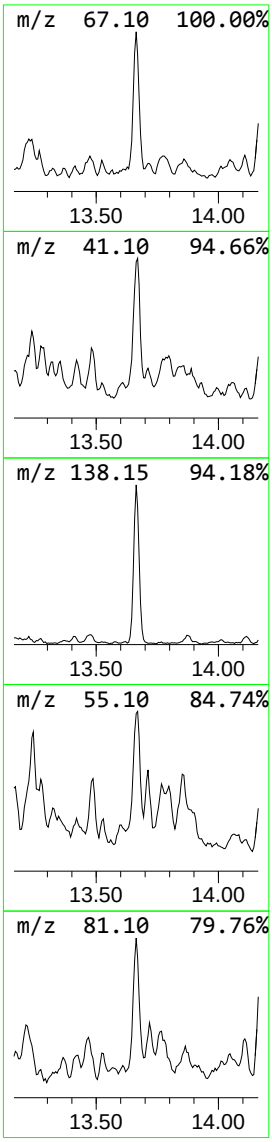
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Naphthalene, decahydro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.663	26.33 ug/l	1709450	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	92
2	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	89
3	Spiro[4.5]decane	138	C10H18	000176-63-6	70
4	Cyclodecene	138	C10H18	003618-12-0	62
5	Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	58





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Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

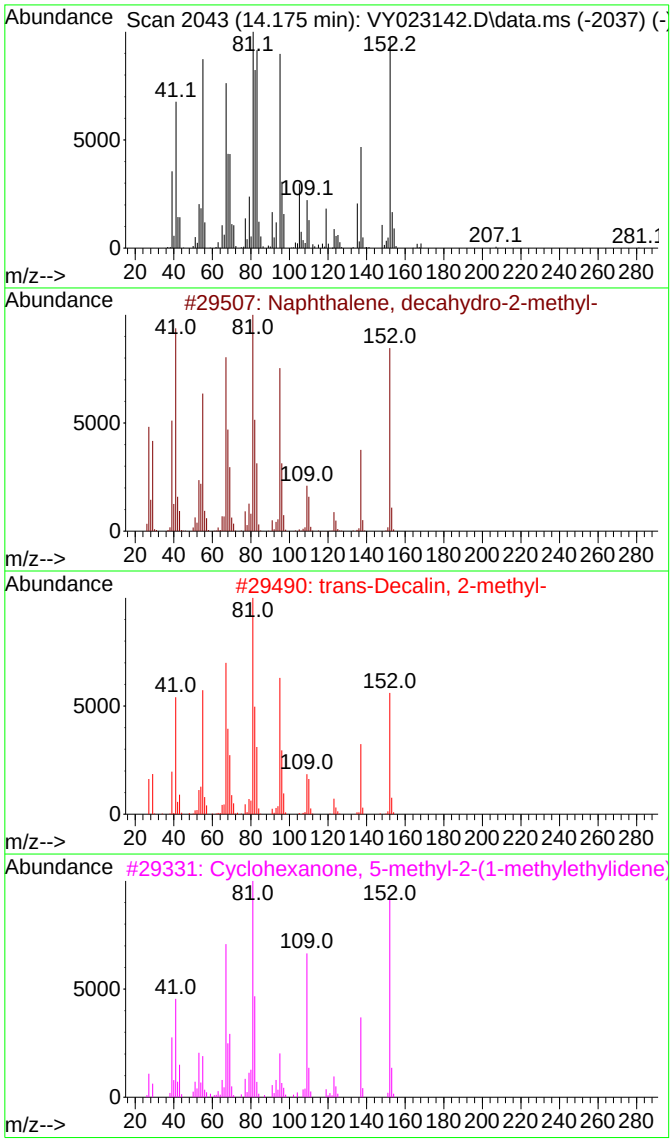
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

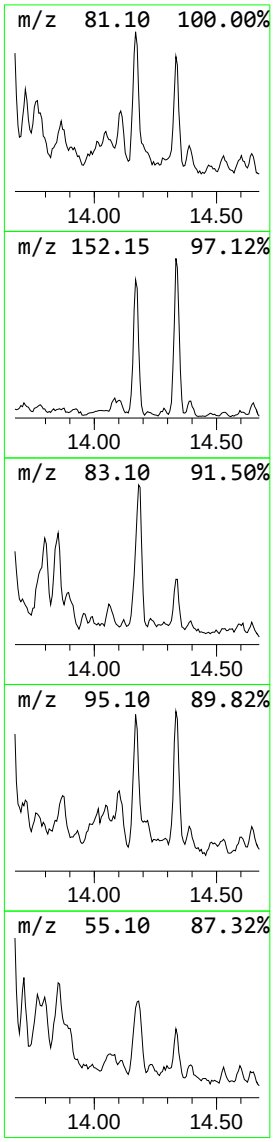
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, decahydro-2-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.175	17.51 ug/l	1136810	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	96
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	81
3	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	70
4	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	58
5	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	006876-13-7	55





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

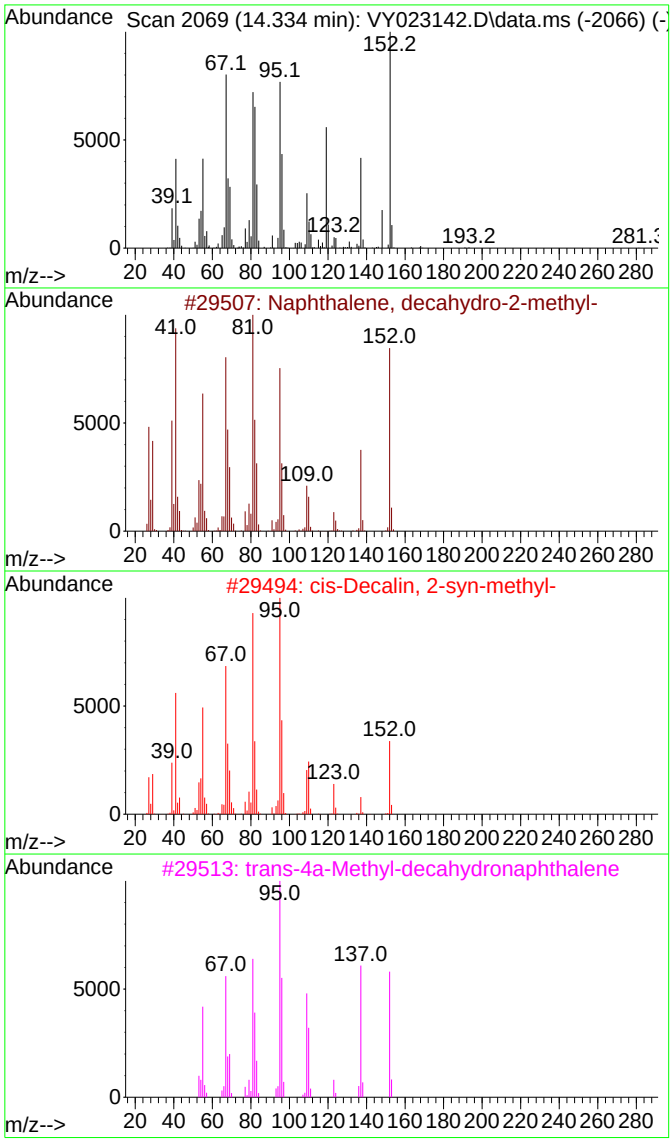
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

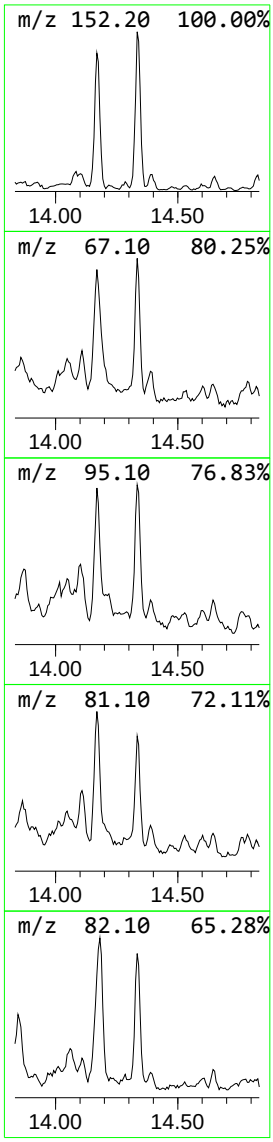
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 cis-Decalin, 2-syn-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.334	8.52 ug/l	552949	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	83
2	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	76
3	trans-4a-Methyl-decahydronaphtha...	152	C11H20	002547-27-5	70
4	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	60
5	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	60





Sample Results: **VY023142.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023142.D
Acq On : 19 Aug 2025 11:44
Operator : SY/MD
Sample : Q2820-15
Misc : 7.75g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
10P-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Octene, 2,6-d...	12.566	15.8	ug/l	1027390	4	13.346	3245840	50.0
unknown12.651	12.651	9.5	ug/l	618696	4	13.346	3245840	50.0
unknown12.730	12.730	20.6	ug/l	1335290	4	13.346	3245840	50.0
3,4-Dimethylpen...	12.962	12.6	ug/l	817526	4	13.346	3245840	50.0
Cyclohexane, (2...	13.236	18.5	ug/l	1199950	4	13.346	3245840	50.0
Isobutyl undecy...	13.279	9.1	ug/l	589885	4	13.346	3245840	50.0
1-Ethyl-2,2,6-t...	13.486	8.4	ug/l	544264	4	13.346	3245840	50.0
Naphthalene, de...	13.663	26.3	ug/l	1709450	4	13.346	3245840	50.0
Naphthalene, de...	14.175	17.5	ug/l	1136810	4	13.346	3245840	50.0
cis-Decalin, 2-...	14.334	8.5	ug/l	552949	4	13.346	3245840	50.0

Raw Data: **VW032099.D**

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-16	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	6.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032099.D	1	08/14/25 17:17	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.80	U	1.10	3.80	4.80	ug/Kg
74-87-3	Chloromethane	2.40	U	1.10	2.40	4.80	ug/Kg
75-01-4	Vinyl Chloride	2.40	U	0.75	2.40	4.80	ug/Kg
74-83-9	Bromomethane	3.80	U	1.00	3.80	4.80	ug/Kg
75-00-3	Chloroethane	2.40	U	1.20	2.40	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	3.80	U	1.20	3.80	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.40	U	1.00	2.40	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	2.40	U	0.95	2.40	4.80	ug/Kg
67-64-1	Acetone	19.1	U	4.50	19.1	23.9	ug/Kg
75-15-0	Carbon Disulfide	3.80	U	1.00	3.80	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.40	U	0.70	2.40	4.80	ug/Kg
79-20-9	Methyl Acetate	3.80	U	1.50	3.80	4.80	ug/Kg
75-09-2	Methylene Chloride	7.60	U	3.40	7.60	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.40	U	0.82	2.40	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	2.40	U	0.76	2.40	4.80	ug/Kg
110-82-7	Cyclohexane	2.40	U	0.75	2.40	4.80	ug/Kg
78-93-3	2-Butanone	19.1	U	6.20	19.1	23.9	ug/Kg
56-23-5	Carbon Tetrachloride	2.40	U	0.93	2.40	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.40	U	0.72	2.40	4.80	ug/Kg
74-97-5	Bromochloromethane	3.80	U	1.10	3.80	4.80	ug/Kg
67-66-3	Chloroform	3.80	U	0.80	3.80	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.40	U	0.89	2.40	4.80	ug/Kg
108-87-2	Methylcyclohexane	2.40	U	0.87	2.40	4.80	ug/Kg
71-43-2	Benzene	2.40	U	0.75	2.40	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	2.40	U	0.75	2.40	4.80	ug/Kg
79-01-6	Trichloroethene	2.40	U	0.77	2.40	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	2.40	U	0.87	2.40	4.80	ug/Kg
75-27-4	Bromodichloromethane	2.40	U	0.74	2.40	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.9	U	3.40	11.9	23.9	ug/Kg
108-88-3	Toluene	2.40	U	0.74	2.40	4.80	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-16	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	6.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032099.D	1	08/14/25 17:17	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.40	U	0.62	2.40	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.40	U	0.59	2.40	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.40	U	0.88	2.40	4.80	ug/Kg
591-78-6	2-Hexanone	11.9	U	3.50	11.9	23.9	ug/Kg
124-48-1	Dibromochloromethane	2.40	U	0.83	2.40	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	2.40	U	0.84	2.40	4.80	ug/Kg
127-18-4	Tetrachloroethene	2.40	U	1.00	2.40	4.80	ug/Kg
108-90-7	Chlorobenzene	2.40	U	0.87	2.40	4.80	ug/Kg
100-41-4	Ethyl Benzene	2.40	U	0.64	2.40	4.80	ug/Kg
179601-23-1	m/p-Xylenes	4.80	U	1.20	4.80	9.50	ug/Kg
95-47-6	o-Xylene	2.40	U	0.78	2.40	4.80	ug/Kg
100-42-5	Styrene	2.40	U	0.68	2.40	4.80	ug/Kg
75-25-2	Bromoform	2.40	U	0.82	2.40	4.80	ug/Kg
98-82-8	Isopropylbenzene	2.40	U	0.74	2.40	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	1.20	2.40	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.40	U	1.60	2.40	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.40	U	1.50	2.40	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.40	U	1.40	2.40	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.80	U	1.80	3.80	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.80	U	2.80	3.80	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.80	U	3.00	3.80	4.80	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.6		71 - 136		119%	SPK: 50
1868-53-7	Dibromofluoromethane	55.1		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	50.5		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		79 - 119		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	140000	7.959				
540-36-3	1,4-Difluorobenzene	294000	8.855				
3114-55-4	Chlorobenzene-d5	292000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.556				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	10P-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-16	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	6.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032099.D	1	08/14/25 17:17	VW081425

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

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

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

Sample Results: **VW032099.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032099.D
Acq On : 14 Aug 2025 17:17
Operator : SY/MD
Sample : Q2820-16
Misc : 6.08g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Quant Time: Aug 18 03:55:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	140424	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	293737	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	291999	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	143336	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	121097	59.626	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 119.260%			
35) Dibromofluoromethane	7.904	113	104532	55.085	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.160%			
50) Toluene-d8	10.324	98	354525	50.510	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.020%			
62) 4-Bromofluorobenzene	12.617	95	133098	51.458	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.920%			

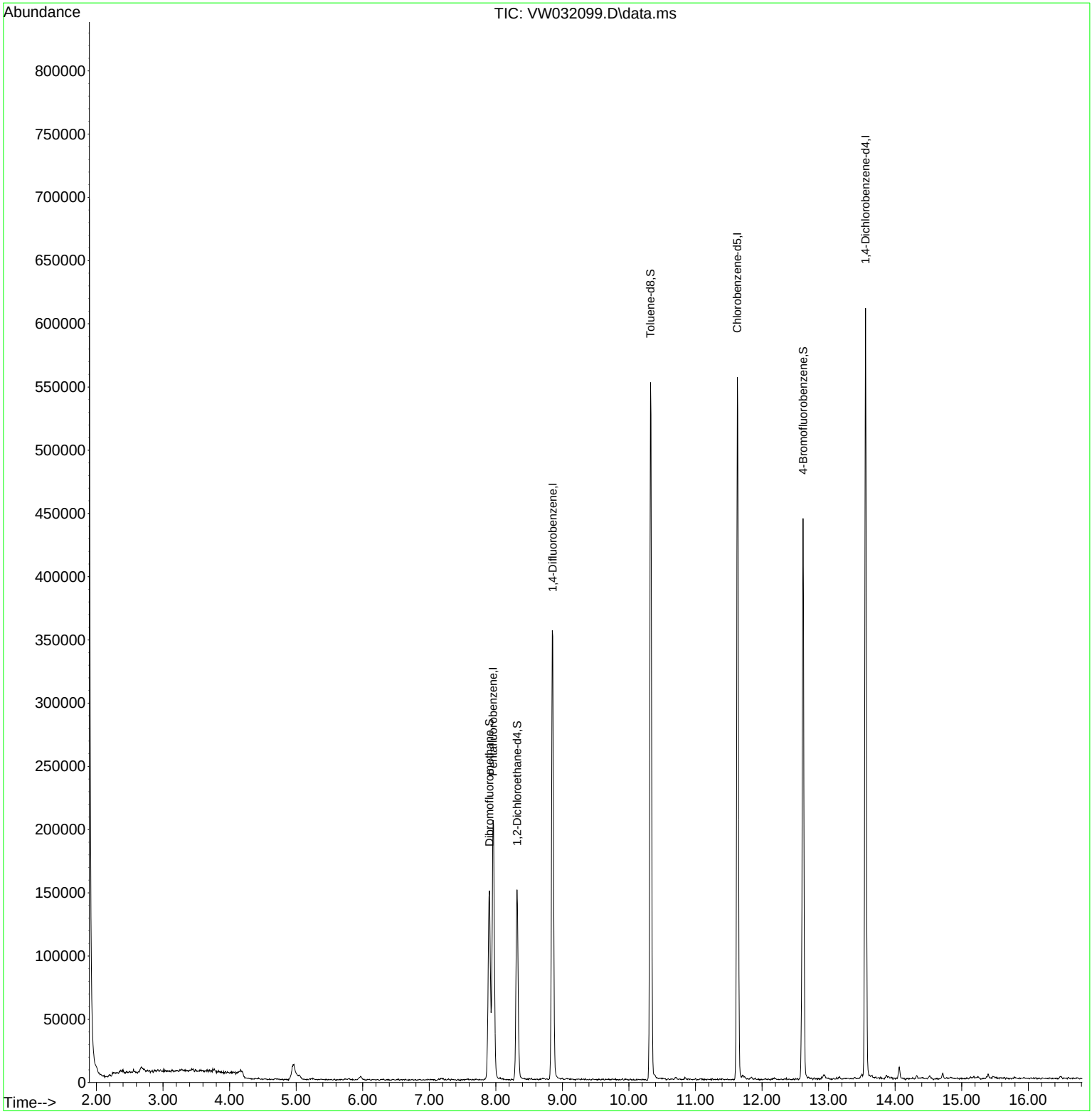
Target Compounds Qvalue

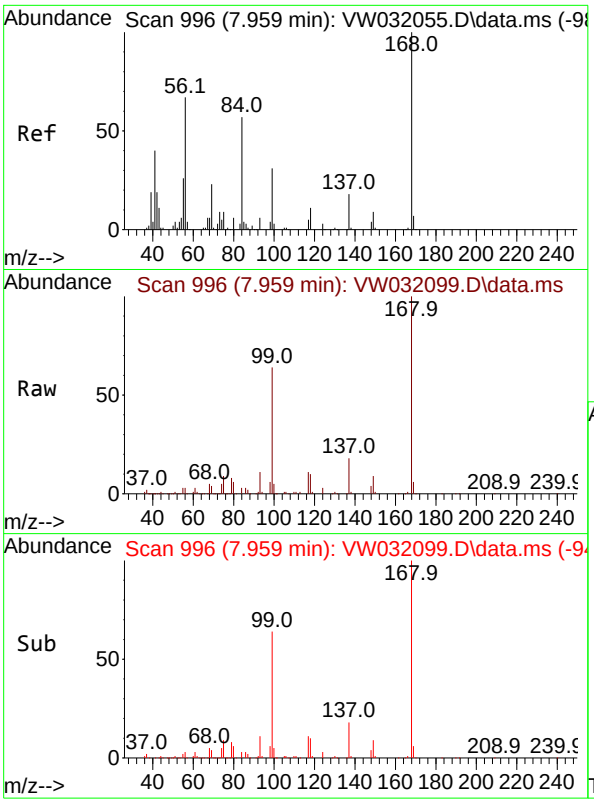
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032099.D
Acq On : 14 Aug 2025 17:17
Operator : SY/MD
Sample : Q2820-16
Misc : 6.08g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Quant Time: Aug 18 03:55:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



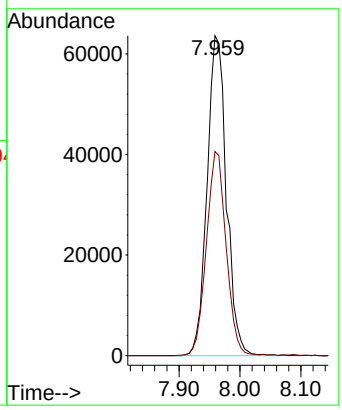


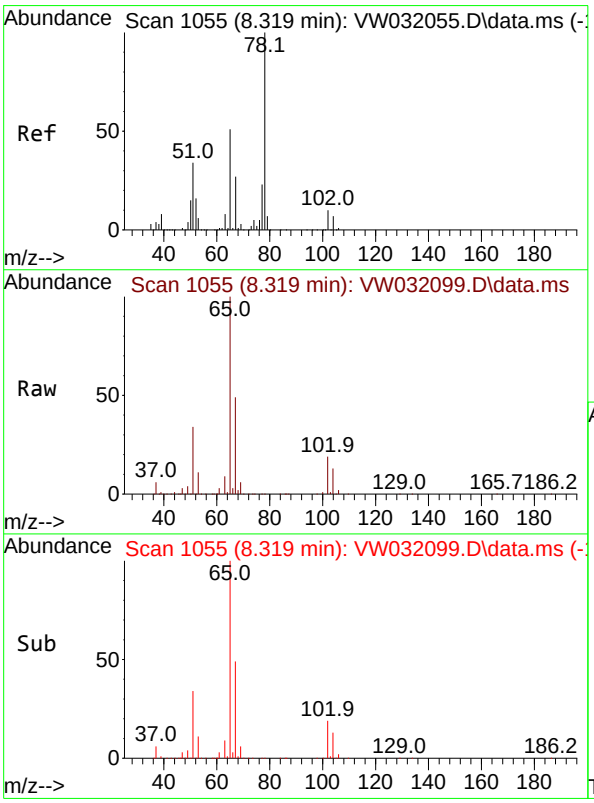
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Tgt Ion:168 Resp: 140424

Ion	Ratio	Lower	Upper
168	100		
99	63.7	56.0	84.0

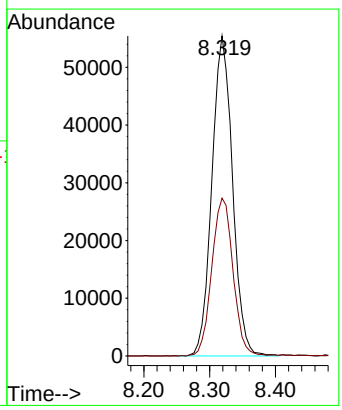


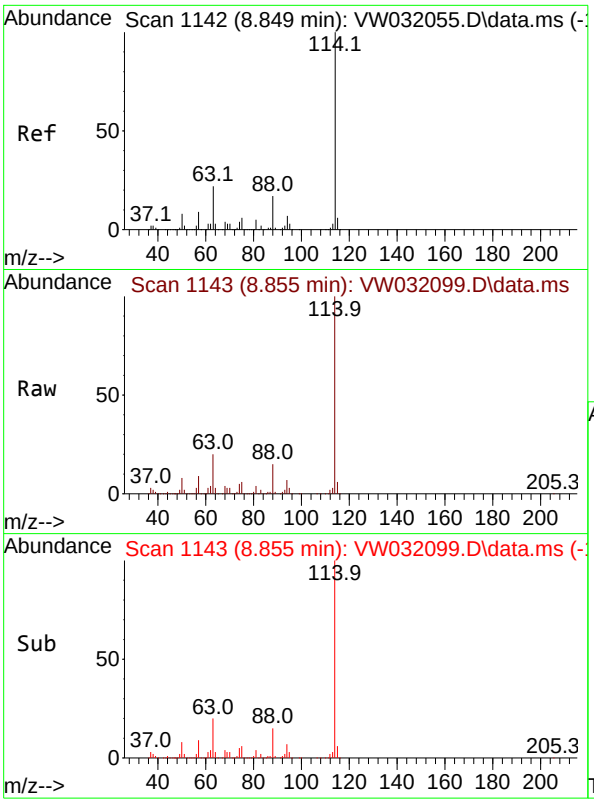


#33
1,2-Dichloroethane-d4
Concen: 59.626 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Tgt Ion: 65 Resp: 121097

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	102.4



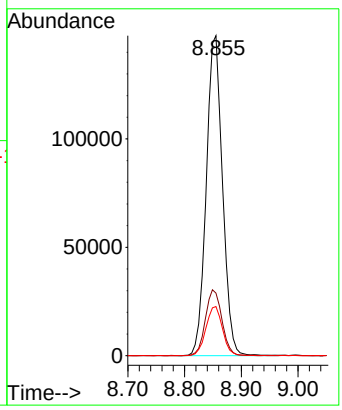


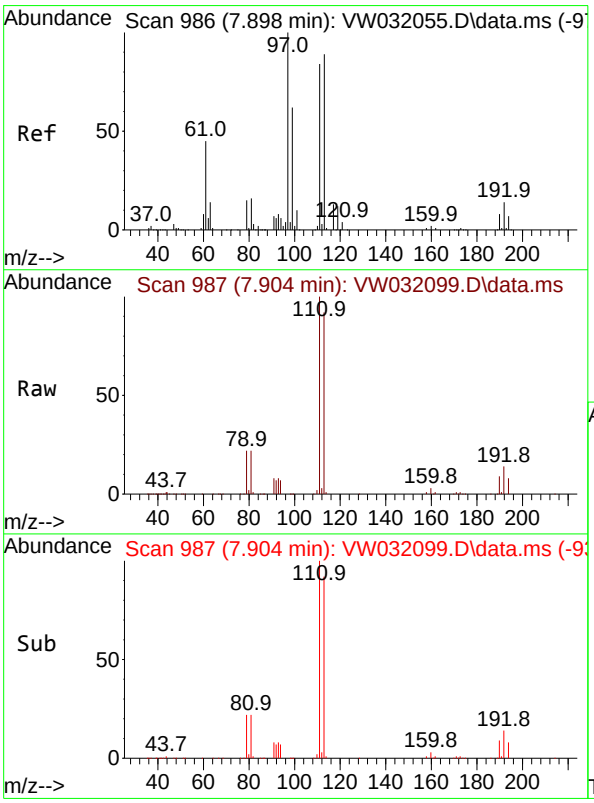
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Tgt Ion:114 Resp: 293737

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	43.0
88	15.4	0.0	33.8

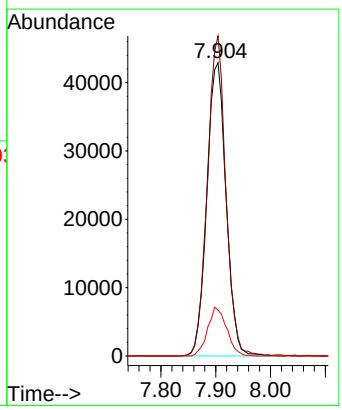


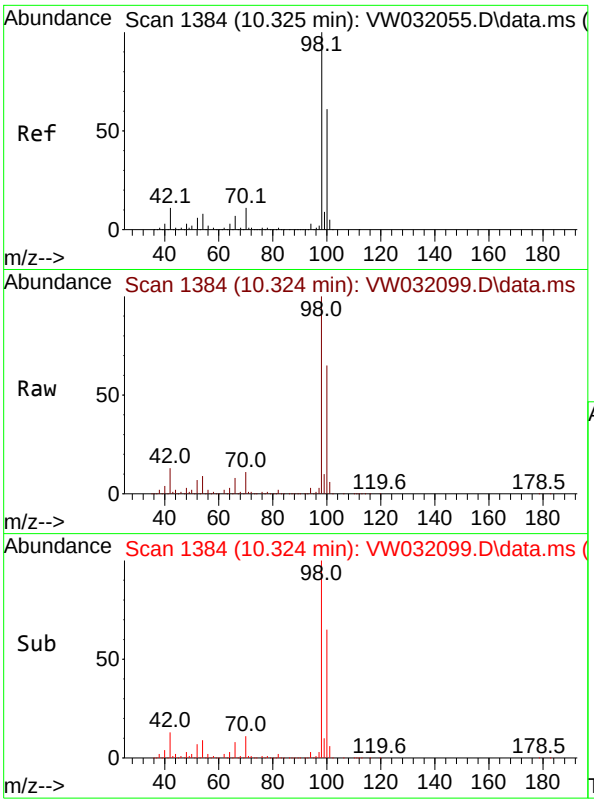


#35
Dibromofluoromethane
Concen: 55.085 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Tgt Ion:113 Resp: 104532

Ion	Ratio	Lower	Upper
113	100		
111	104.8	80.1	120.1
192	16.4	13.1	19.7



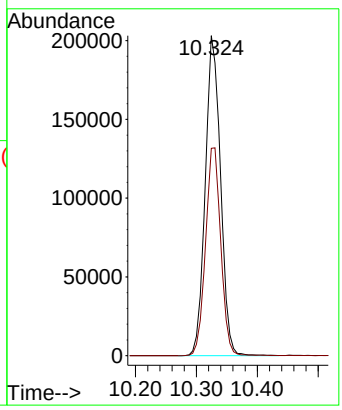


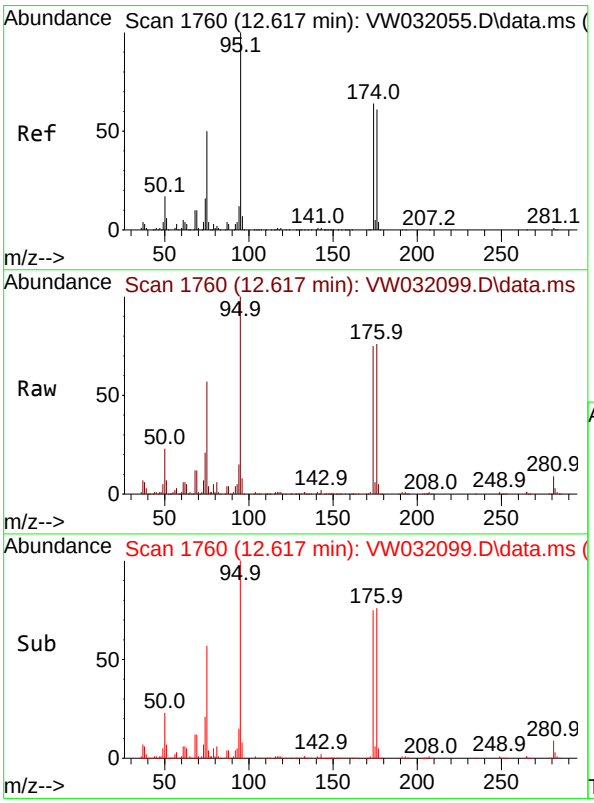
#50
Toluene-d8
Concen: 50.510 ug/l
RT: 10.324 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Tgt Ion: 98 Resp: 354525

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.1	76.7

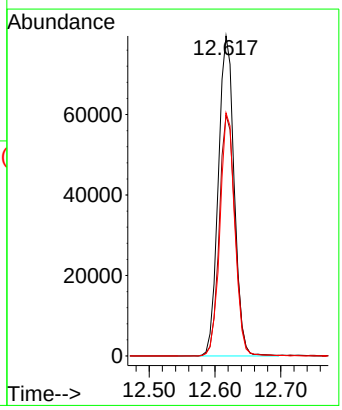


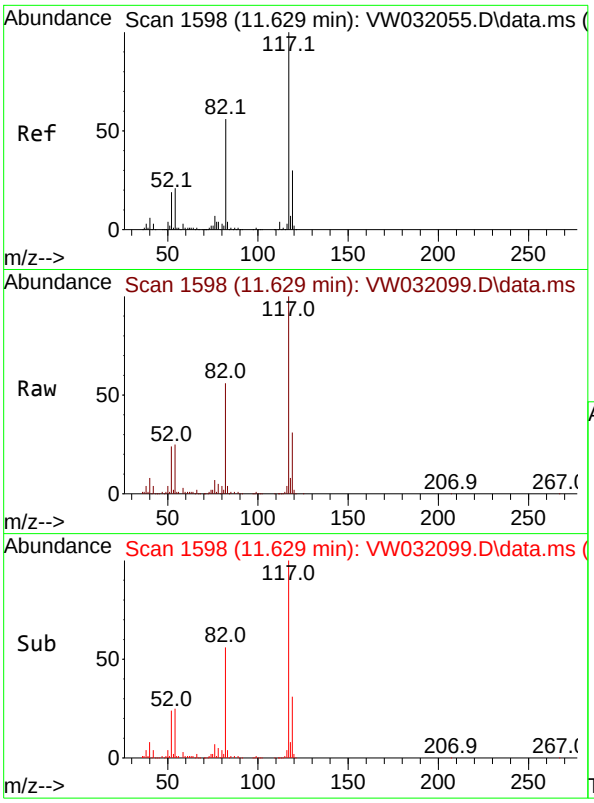


#62
4-Bromofluorobenzene
Concen: 51.458 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Tgt Ion: 95 Resp: 133098

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	129.0
176	71.5	0.0	124.6



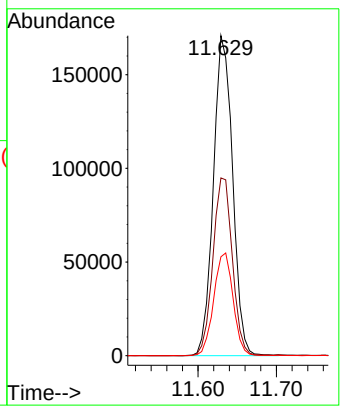


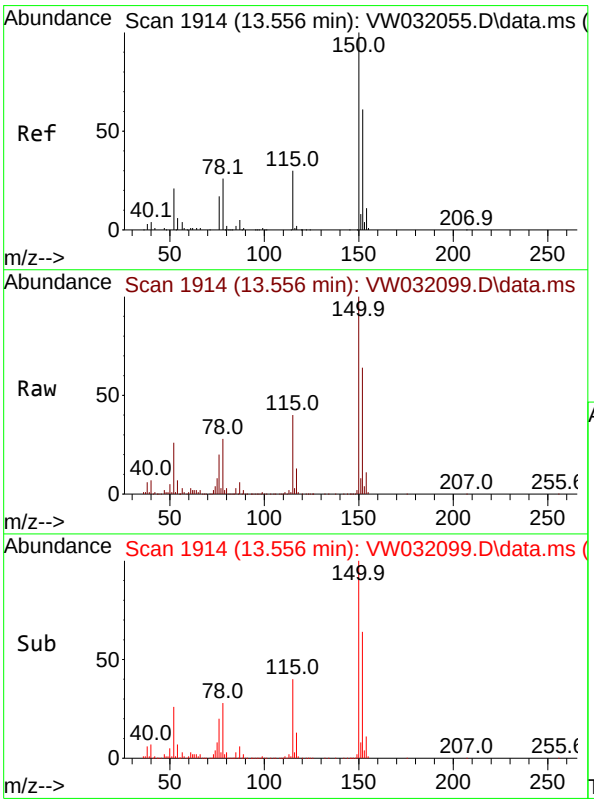
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Tgt Ion:117 Resp: 291999

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.0	67.4
119	30.9	24.2	36.4

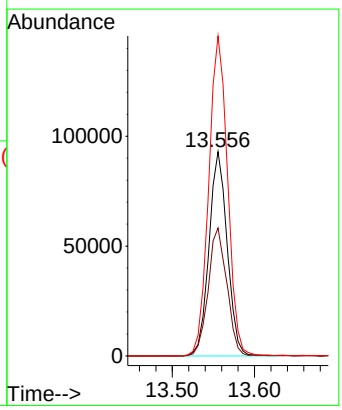




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032099.D
Acq: 14 Aug 2025 17:17

Tgt Ion:152 Resp: 143336

Ion	Ratio	Lower	Upper
152	100		
115	64.4	32.6	97.8
150	161.9	0.0	359.4



Sample Results: **VW032099.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032099.D
Acq On : 14 Aug 2025 17:17
Operator : SY/MD
Sample : Q2820-16
Misc : 6.08g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-N

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032099.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.673	124	129	135	rBV10	4095	11265	1.14%	0.199%
2	4.966	492	505	514	rBV4	12597	53963	5.45%	0.954%
3	7.904	975	987	991	rBV	149128	354944	35.86%	6.275%
4	7.959	991	996	1009	rVB2	204482	467931	47.28%	8.273%
5	8.319	1046	1055	1071	rBV	150702	341864	34.54%	6.044%
6	8.849	1132	1142	1157	rBV	355179	729412	73.69%	12.895%
7	10.324	1376	1384	1399	rBV	551995	989774	100.00%	17.498%
8	11.629	1590	1598	1609	rBV	555865	954294	96.42%	16.871%
9	12.617	1748	1760	1771	rBV2	443955	782470	79.06%	13.833%
10	13.556	1907	1914	1922	rVV	607692	955648	96.55%	16.895%
11	14.062	1992	1997	2002	rBV2	9029	14799	1.50%	0.262%

Sum of corrected areas: 5656364

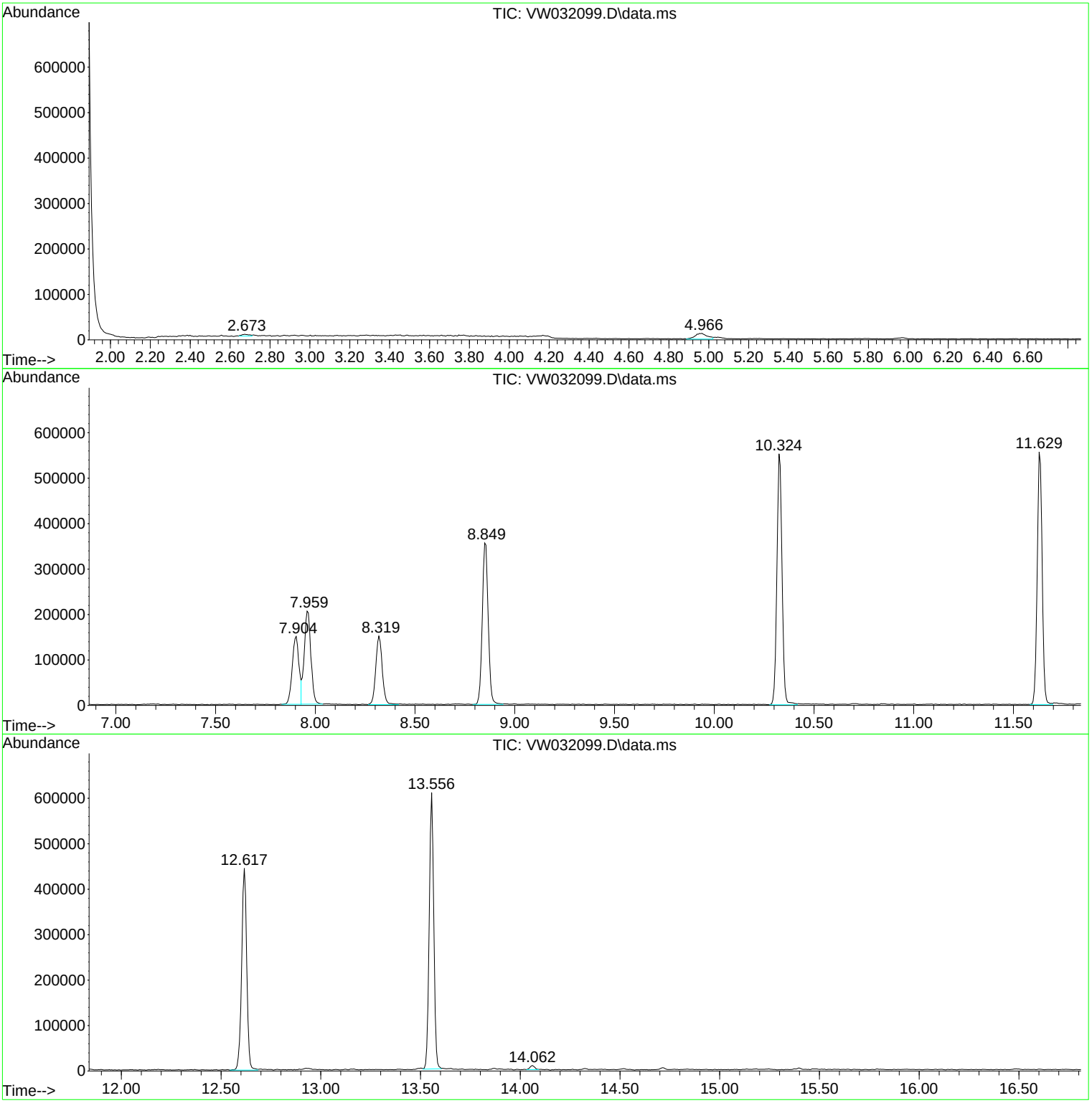
Sample Results: **VW032099.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032099.D
Acq On : 14 Aug 2025 17:17
Operator : SY/MD
Sample : Q2820-16
Misc : 6.08g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032099.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032099.D
Acq On : 14 Aug 2025 17:17
Operator : SY/MD
Sample : Q2820-16
Misc : 6.08g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032099.D
Acq On : 14 Aug 2025 17:17
Operator : SY/MD
Sample : Q2820-16
Misc : 6.08g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
10P-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032100.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-17	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.6
Sample Wt/Vol:	6.84 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032100.D	1	08/14/25 17:40	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.50	U	1.00	3.50	4.40	ug/Kg
74-87-3	Chloromethane	2.20	U	1.00	2.20	4.40	ug/Kg
75-01-4	Vinyl Chloride	2.20	U	0.70	2.20	4.40	ug/Kg
74-83-9	Bromomethane	3.50	U	0.95	3.50	4.40	ug/Kg
75-00-3	Chloroethane	2.20	U	1.10	2.20	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	3.50	U	1.10	3.50	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.20	U	0.94	2.20	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	2.20	U	0.88	2.20	4.40	ug/Kg
67-64-1	Acetone	17.7	U	4.20	17.7	22.1	ug/Kg
75-15-0	Carbon Disulfide	3.50	U	0.94	3.50	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.20	U	0.65	2.20	4.40	ug/Kg
79-20-9	Methyl Acetate	3.50	U	1.40	3.50	4.40	ug/Kg
75-09-2	Methylene Chloride	7.10	U	3.10	7.10	8.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.20	U	0.76	2.20	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	2.20	U	0.71	2.20	4.40	ug/Kg
110-82-7	Cyclohexane	2.20	U	0.70	2.20	4.40	ug/Kg
78-93-3	2-Butanone	17.7	U	5.80	17.7	22.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.20	U	0.86	2.20	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.20	U	0.66	2.20	4.40	ug/Kg
74-97-5	Bromochloromethane	3.50	U	1.00	3.50	4.40	ug/Kg
67-66-3	Chloroform	3.50	U	0.74	3.50	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.20	U	0.82	2.20	4.40	ug/Kg
108-87-2	Methylcyclohexane	2.20	U	0.81	2.20	4.40	ug/Kg
71-43-2	Benzene	2.20	U	0.70	2.20	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	2.20	U	0.70	2.20	4.40	ug/Kg
79-01-6	Trichloroethene	2.20	U	0.72	2.20	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	2.20	U	0.81	2.20	4.40	ug/Kg
75-27-4	Bromodichloromethane	2.20	U	0.69	2.20	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.1	U	3.20	11.1	22.1	ug/Kg
108-88-3	Toluene	2.20	U	0.69	2.20	4.40	ug/Kg

Raw Data: **VW032100.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-17	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.6
Sample Wt/Vol:	6.84 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032100.D	1	08/14/25 17:40	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.20	U	0.58	2.20	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.20	U	0.55	2.20	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.20	U	0.81	2.20	4.40	ug/Kg
591-78-6	2-Hexanone	11.1	U	3.30	11.1	22.1	ug/Kg
124-48-1	Dibromochloromethane	2.20	U	0.77	2.20	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	2.20	U	0.78	2.20	4.40	ug/Kg
127-18-4	Tetrachloroethene	2.20	U	0.93	2.20	4.40	ug/Kg
108-90-7	Chlorobenzene	2.20	U	0.81	2.20	4.40	ug/Kg
100-41-4	Ethyl Benzene	2.20	U	0.59	2.20	4.40	ug/Kg
179601-23-1	m/p-Xylenes	4.40	U	1.10	4.40	8.80	ug/Kg
95-47-6	o-Xylene	2.20	U	0.73	2.20	4.40	ug/Kg
100-42-5	Styrene	2.20	U	0.63	2.20	4.40	ug/Kg
75-25-2	Bromoform	2.20	U	0.76	2.20	4.40	ug/Kg
98-82-8	Isopropylbenzene	2.20	U	0.69	2.20	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.20	U	1.10	2.20	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.20	U	1.50	2.20	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	1.40	2.20	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.20	U	1.30	2.20	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.50	U	1.60	3.50	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.50	U	2.60	3.50	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.50	U	2.80	3.50	4.40	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.2		71 - 136		120%	SPK: 50
1868-53-7	Dibromofluoromethane	55.2		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	49.1		85 - 116		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	139000	7.965				
540-36-3	1,4-Difluorobenzene	294000	8.849				
3114-55-4	Chlorobenzene-d5	290000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.556				

Raw Data: **VW032100.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-17	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.6
Sample Wt/Vol:	6.84 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032100.D	1	08/14/25 17:40	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032100.D
Acq On : 14 Aug 2025 17:40
Operator : SY/MD
Sample : Q2820-17
Misc : 6.84g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Quant Time: Aug 18 03:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	138538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	294077	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	290017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	141036	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120564	60.172	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 120.340%			
35) Dibromofluoromethane	7.898	113	104879	55.204	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.400%			
50) Toluene-d8	10.325	98	344847	49.075	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 98.140%			
62) 4-Bromofluorobenzene	12.617	95	126423	48.821	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 97.640%			

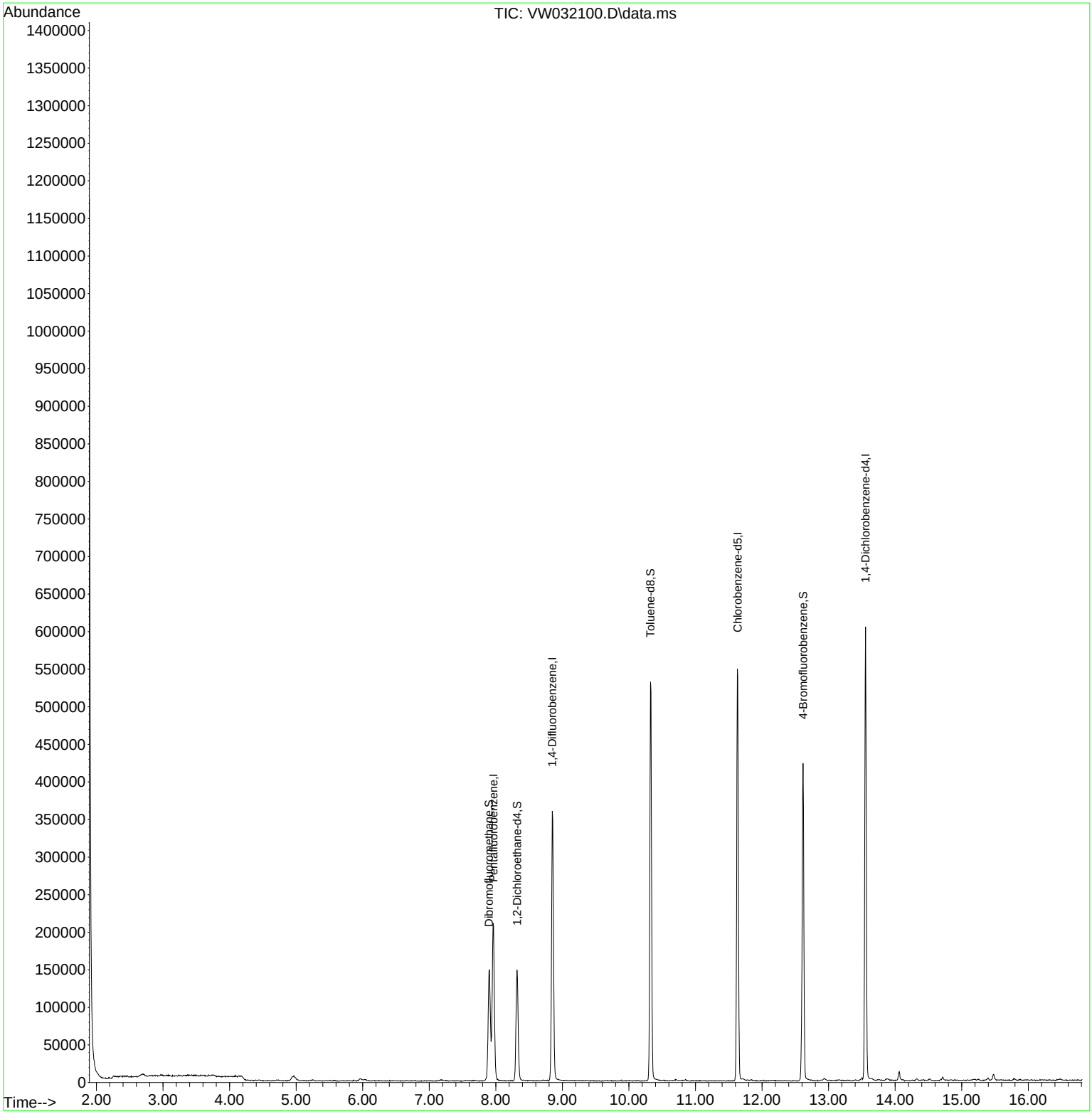
Target Compounds Qvalue

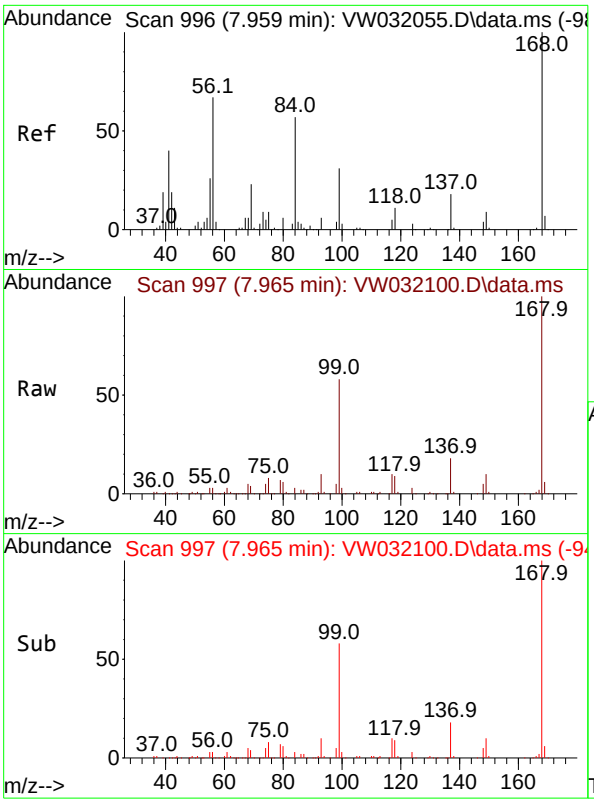
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032100.D
Acq On : 14 Aug 2025 17:40
Operator : SY/MD
Sample : Q2820-17
Misc : 6.84g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Quant Time: Aug 18 03:56:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



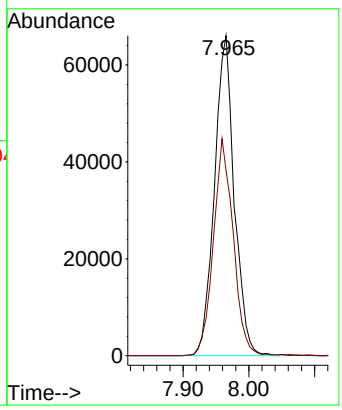


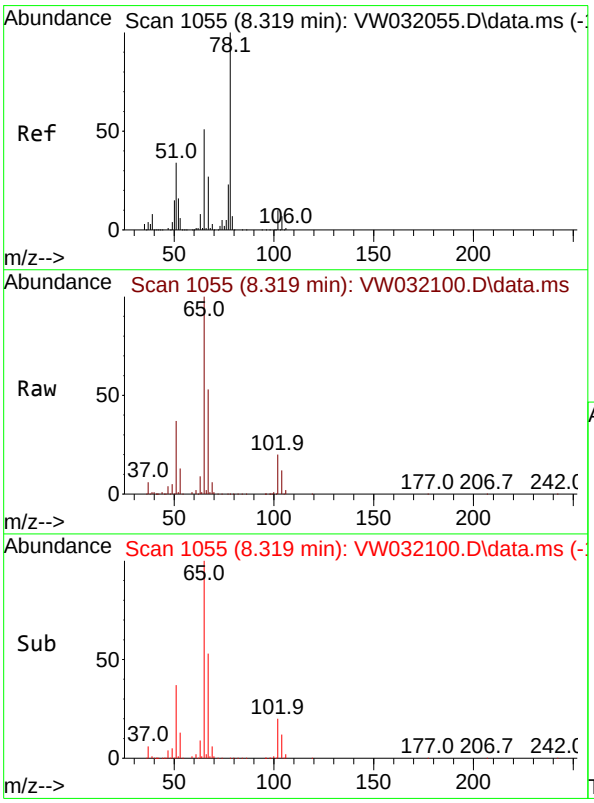
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Tgt Ion:168 Resp: 138538

Ion	Ratio	Lower	Upper
168	100		
99	57.9	56.0	84.0

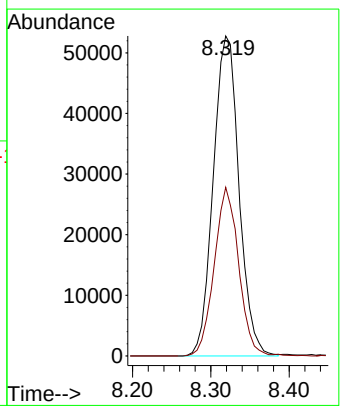


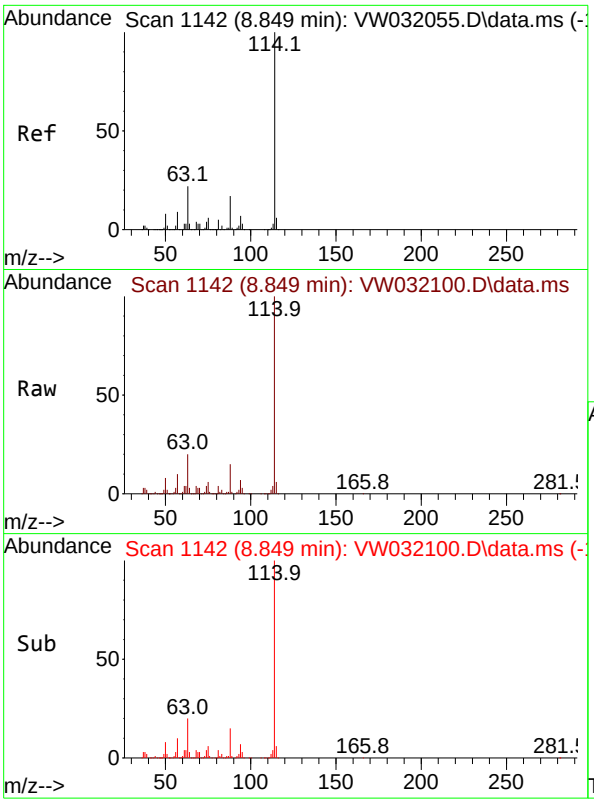


#33
1,2-Dichloroethane-d4
Concen: 60.172 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion: 65 Resp: 120564

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	102.4



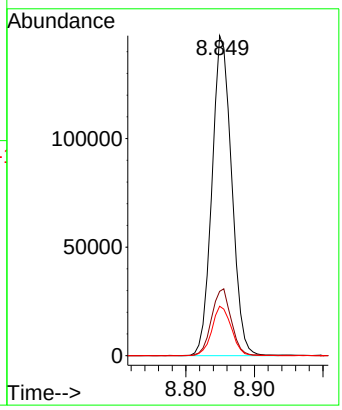


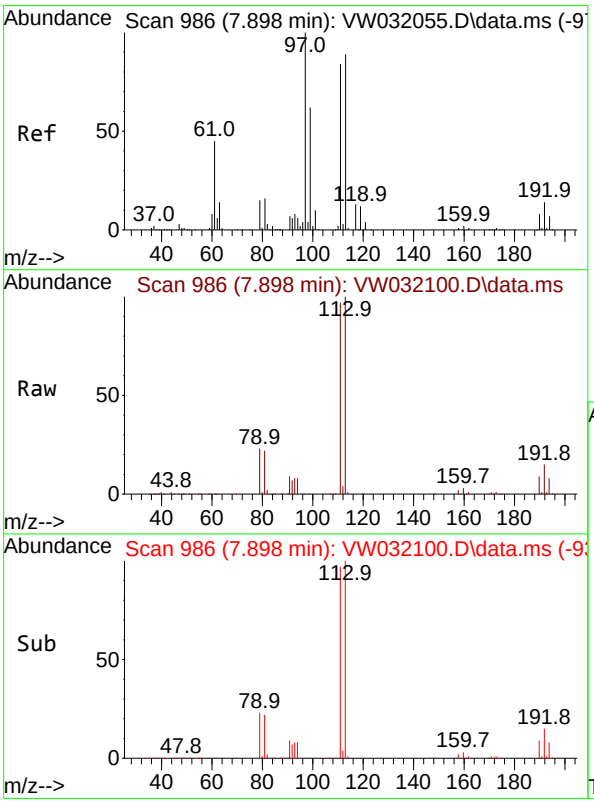
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Tgt Ion:114 Resp: 294077

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	43.0
88	15.5	0.0	33.8

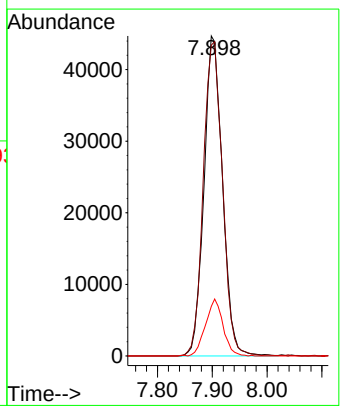


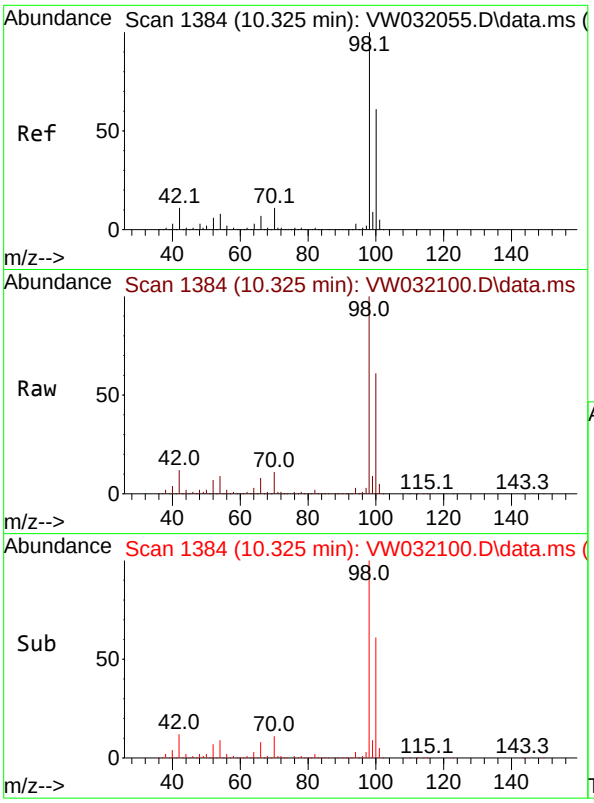


#35
Dibromofluoromethane
Concen: 55.204 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion:113 Resp: 104879

Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.1	120.1
192	16.9	13.1	19.7



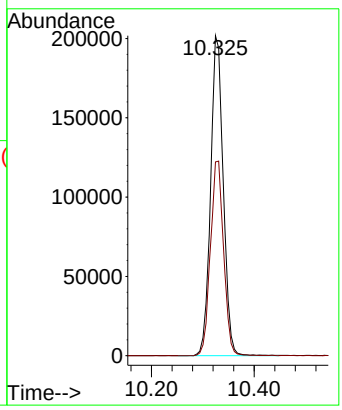


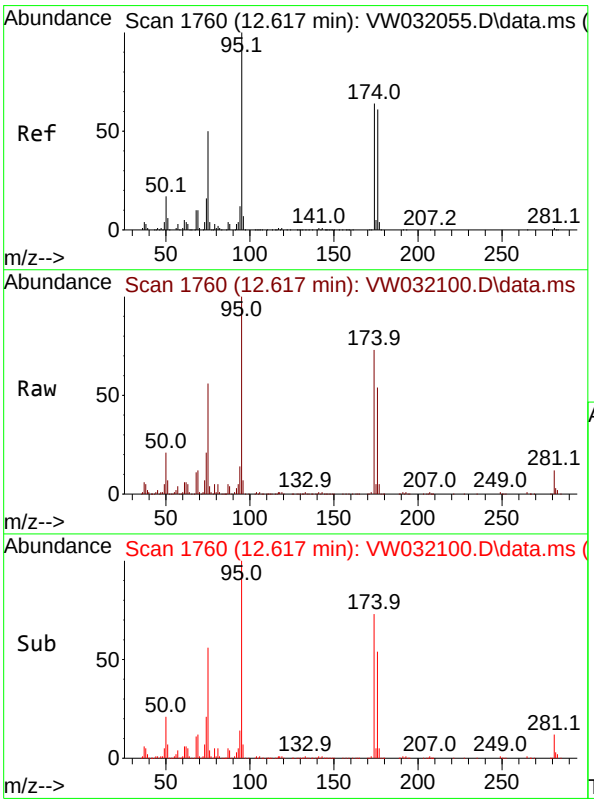
#50
Toluene-d8
Concen: 49.075 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Tgt Ion: 98 Resp: 344847

Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.1	76.7

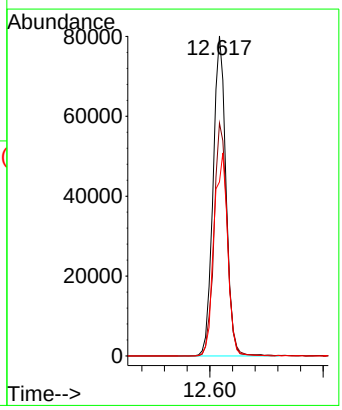


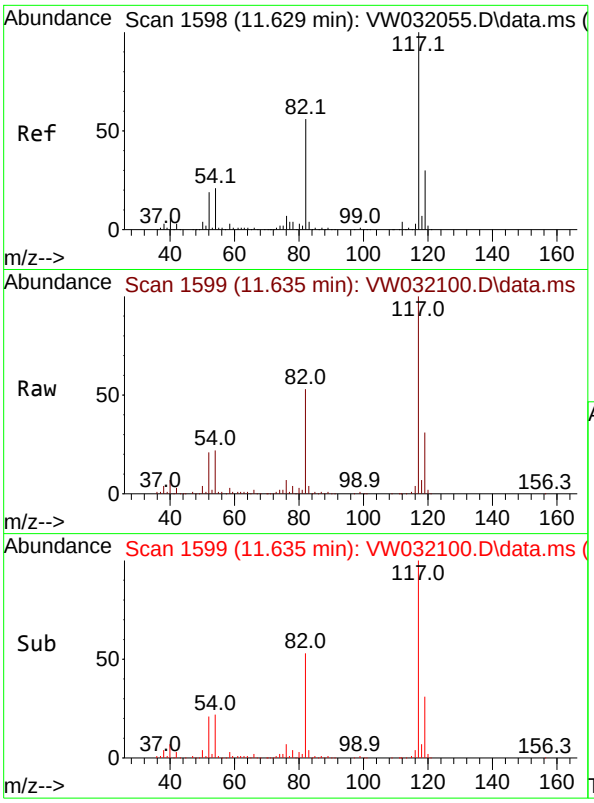


#62
4-Bromofluorobenzene
Concen: 48.821 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion: 95 Resp: 126423

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	129.0
176	67.6	0.0	124.6



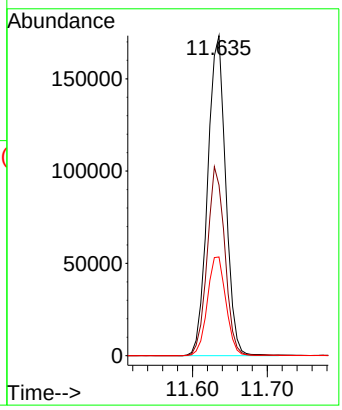


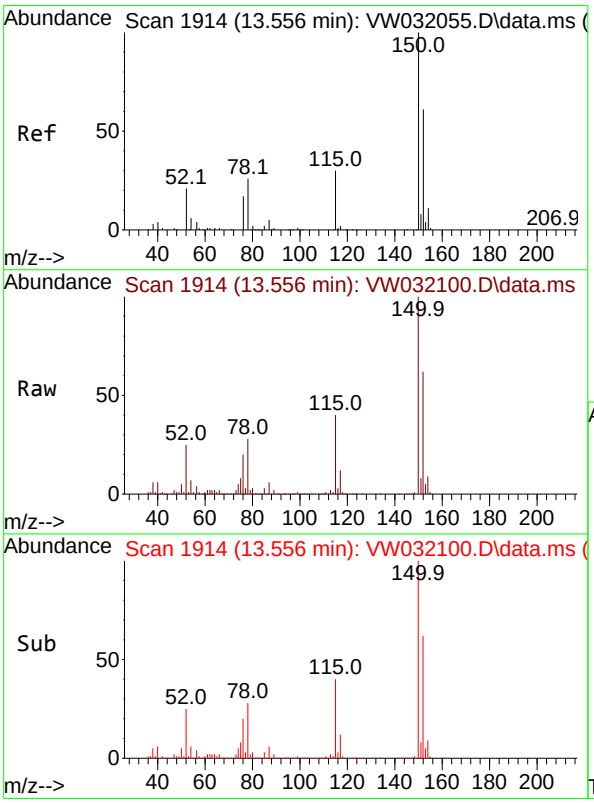
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Tgt Ion:117 Resp: 290017

Ion	Ratio	Lower	Upper
117	100		
82	53.3	45.0	67.4
119	30.8	24.2	36.4

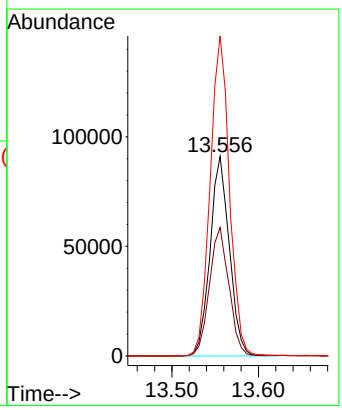




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032100.D
Acq: 14 Aug 2025 17:40

Tgt Ion:152 Resp: 141036

Ion	Ratio	Lower	Upper
152	100		
115	65.1	32.6	97.8
150	160.9	0.0	359.4



Sample Results: **VW032100.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032100.D
Acq On : 14 Aug 2025 17:40
Operator : SY/MD
Sample : Q2820-17
Misc : 6.84g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-E

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032100.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.904	975	987	991	rBV	146694	349173	36.81%	6.322%
2	7.959	991	996	1006	rVB	208299	467007	49.24%	8.455%
3	8.319	1046	1055	1066	rBV2	147312	329576	34.75%	5.967%
4	8.849	1133	1142	1155	rBV	359426	731961	77.17%	13.252%
5	10.325	1376	1384	1395	rBV	530677	941318	99.25%	17.042%
6	11.629	1591	1598	1607	rBV	548463	948476	100.00%	17.171%
7	12.617	1746	1760	1772	rBV3	422862	767892	80.96%	13.902%
8	13.556	1907	1914	1925	rBV	602267	948281	99.98%	17.168%
9	14.062	1988	1997	2003	rBV2	11815	21781	2.30%	0.394%
10	15.476	2220	2229	2236	rBV2	8270	18108	1.91%	0.328%

Sum of corrected areas: 5523573

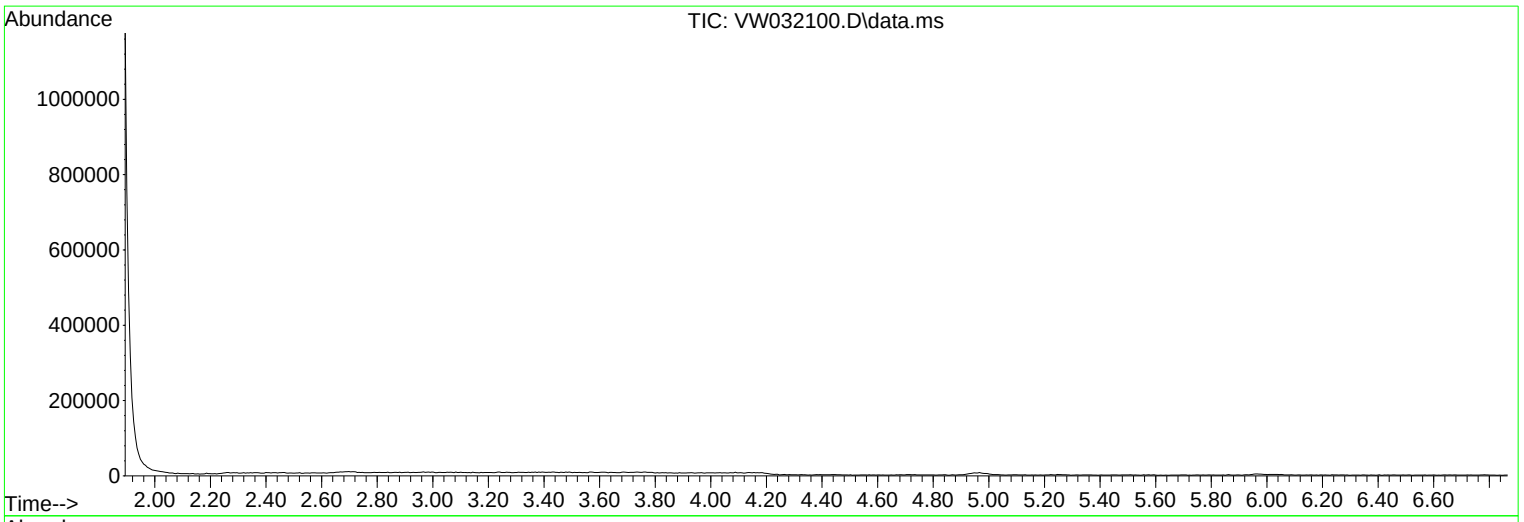
Sample Results: **VW032100.D**

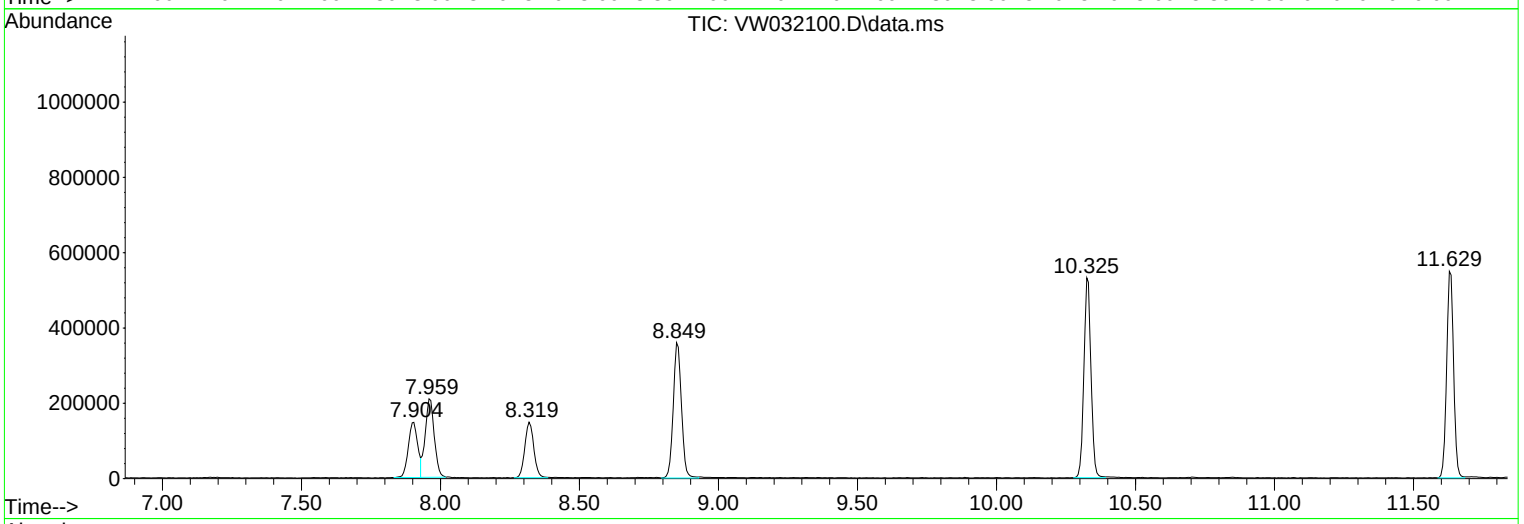
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032100.D
Acq On : 14 Aug 2025 17:40
Operator : SY/MD
Sample : Q2820-17
Misc : 6.84g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

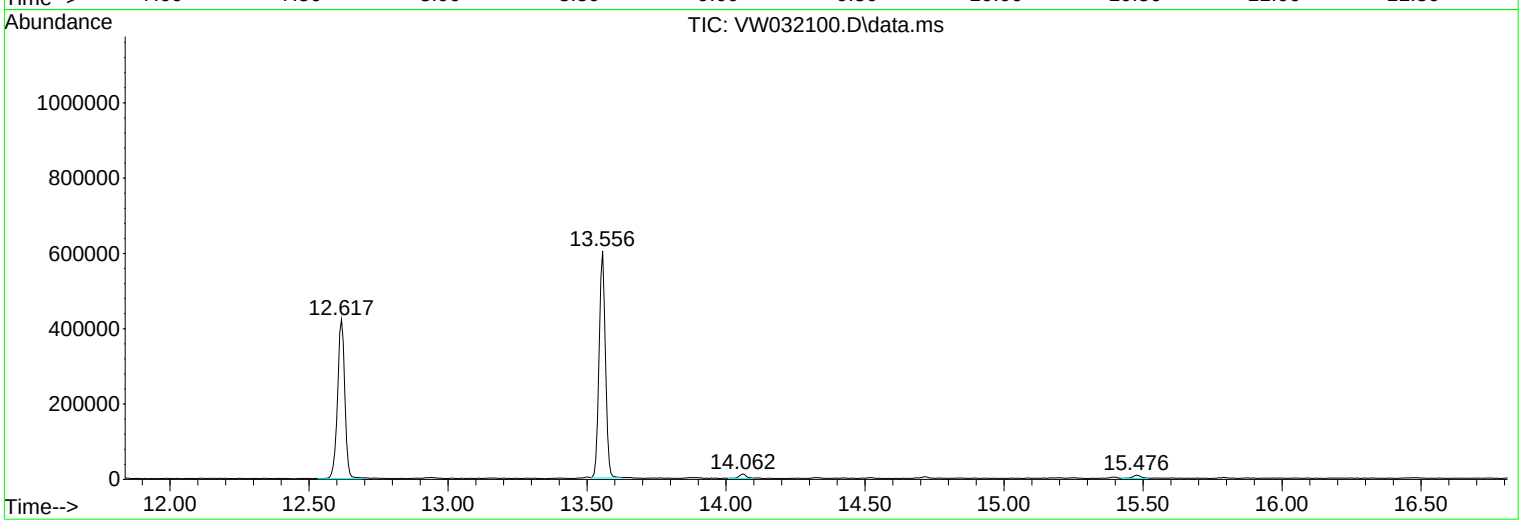
Instrument :
MSVOA_W
ClientSampleId :
88H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VW032100.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032100.D
Acq On : 14 Aug 2025 17:40
Operator : SY/MD
Sample : Q2820-17
Misc : 6.84g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032100.D
Acq On : 14 Aug 2025 17:40
Operator : SY/MD
Sample : Q2820-17
Misc : 6.84g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032101.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-18	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.3
Sample Wt/Vol:	7.59 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032101.D	1	08/14/25 18:02	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.10	U	0.87	3.10	3.80	ug/Kg
74-87-3	Chloromethane	1.90	U	0.87	1.90	3.80	ug/Kg
75-01-4	Vinyl Chloride	1.90	U	0.60	1.90	3.80	ug/Kg
74-83-9	Bromomethane	3.10	U	0.82	3.10	3.80	ug/Kg
75-00-3	Chloroethane	1.90	U	0.96	1.90	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	3.10	U	0.92	3.10	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	0.81	1.90	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.90	U	0.76	1.90	3.80	ug/Kg
67-64-1	Acetone	64.0		3.60	15.3	19.1	ug/Kg
75-15-0	Carbon Disulfide	3.10	U	0.81	3.10	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.90	U	0.56	1.90	3.80	ug/Kg
79-20-9	Methyl Acetate	3.10	U	1.20	3.10	3.80	ug/Kg
75-09-2	Methylene Chloride	6.10	U	2.70	6.10	7.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.90	U	0.66	1.90	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.90	U	0.61	1.90	3.80	ug/Kg
110-82-7	Cyclohexane	1.90	U	0.60	1.90	3.80	ug/Kg
78-93-3	2-Butanone	6.70	J	5.00	15.3	19.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.90	U	0.74	1.90	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.90	U	0.57	1.90	3.80	ug/Kg
74-97-5	Bromochloromethane	3.10	U	0.88	3.10	3.80	ug/Kg
67-66-3	Chloroform	3.10	U	0.64	3.10	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.90	U	0.71	1.90	3.80	ug/Kg
108-87-2	Methylcyclohexane	1.90	U	0.69	1.90	3.80	ug/Kg
71-43-2	Benzene	1.90	U	0.60	1.90	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.90	U	0.60	1.90	3.80	ug/Kg
79-01-6	Trichloroethene	1.90	U	0.62	1.90	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.90	U	0.69	1.90	3.80	ug/Kg
75-27-4	Bromodichloromethane	1.90	U	0.60	1.90	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.50	U	2.70	9.50	19.1	ug/Kg
108-88-3	Toluene	1.90	U	0.60	1.90	3.80	ug/Kg

Raw Data: **VW032101.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-18	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.3
Sample Wt/Vol:	7.59 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032101.D	1	08/14/25 18:02	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.90	U	0.50	1.90	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.90	U	0.47	1.90	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.90	U	0.70	1.90	3.80	ug/Kg
591-78-6	2-Hexanone	9.50	U	2.80	9.50	19.1	ug/Kg
124-48-1	Dibromochloromethane	1.90	U	0.66	1.90	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.90	U	0.67	1.90	3.80	ug/Kg
127-18-4	Tetrachloroethene	1.90	U	0.80	1.90	3.80	ug/Kg
108-90-7	Chlorobenzene	1.90	U	0.69	1.90	3.80	ug/Kg
100-41-4	Ethyl Benzene	1.90	U	0.51	1.90	3.80	ug/Kg
179601-23-1	m/p-Xylenes	3.80	U	0.95	3.80	7.60	ug/Kg
95-47-6	o-Xylene	1.90	U	0.63	1.90	3.80	ug/Kg
100-42-5	Styrene	1.90	U	0.54	1.90	3.80	ug/Kg
75-25-2	Bromoform	1.90	U	0.66	1.90	3.80	ug/Kg
98-82-8	Isopropylbenzene	1.90	U	0.60	1.90	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	0.92	1.90	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.30	1.90	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.20	1.90	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.90	U	1.10	1.90	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.10	U	1.40	3.10	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	2.30	3.10	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	2.40	3.10	3.80	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.4		71 - 136		117%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		78 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	50.5		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		79 - 119		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	7.959				
540-36-3	1,4-Difluorobenzene	297000	8.856				
3114-55-4	Chlorobenzene-d5	296000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.556				

Raw Data: **VW032101.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-18	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.3
Sample Wt/Vol:	7.59 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032101.D	1	08/14/25 18:02	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032101.D
Acq On : 14 Aug 2025 18:02
Operator : SY/MD
Sample : Q2820-18
Misc : 7.59g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Quant Time: Aug 18 03:56:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

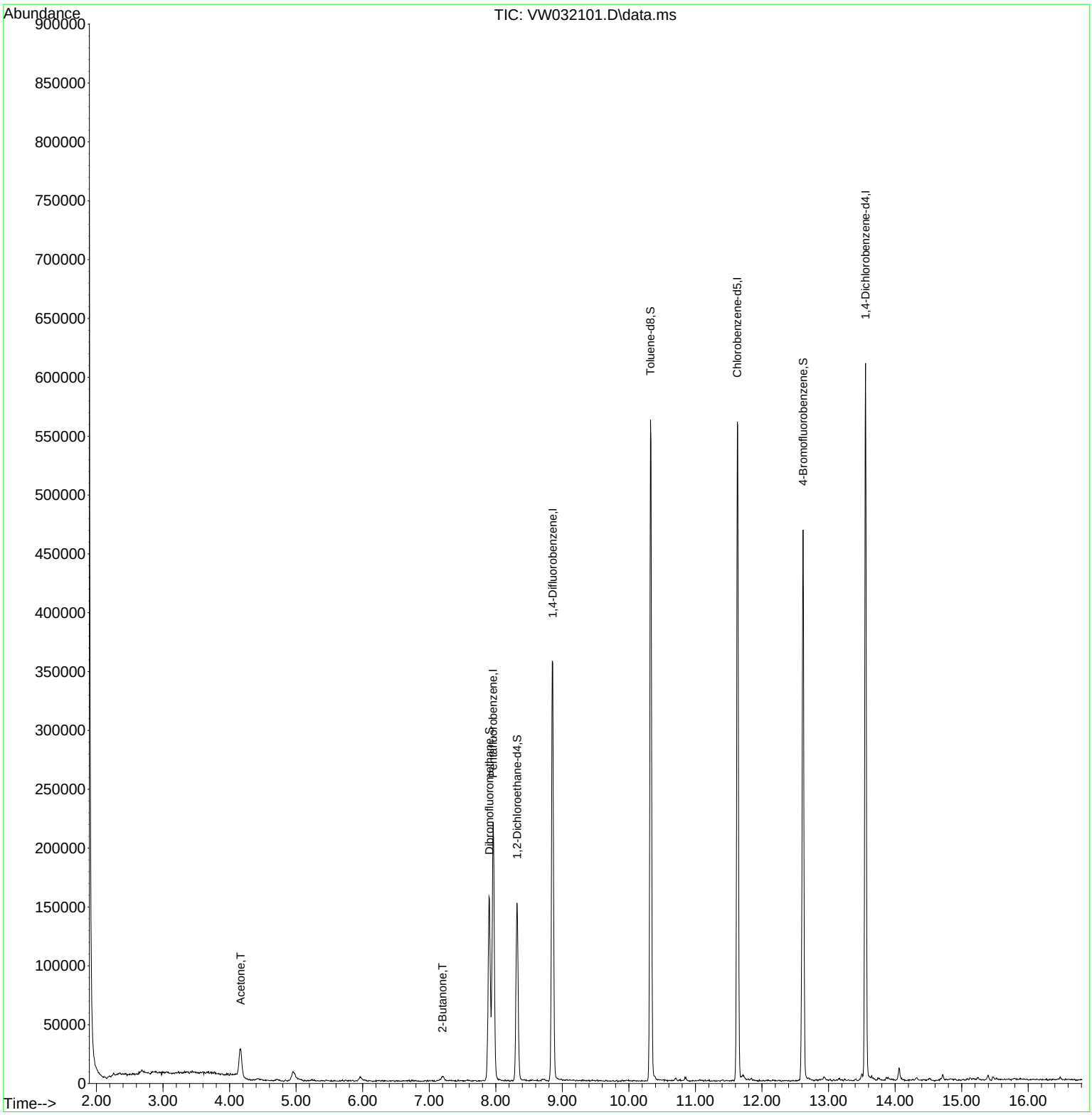
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	147385	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	297090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	296209	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	149072	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	124522	58.417	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 116.840%			
35) Dibromofluoromethane	7.904	113	106924	55.709	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 111.420%			
50) Toluene-d8	10.325	98	358263	50.467	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.940%			
62) 4-Bromofluorobenzene	12.617	95	138690	53.015	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 106.020%			
Target Compounds						Qvalue
16) Acetone	4.167	43	41408	83.903	ug/l	90
25) 2-Butanone	7.197	43	6117	8.721	ug/l	93

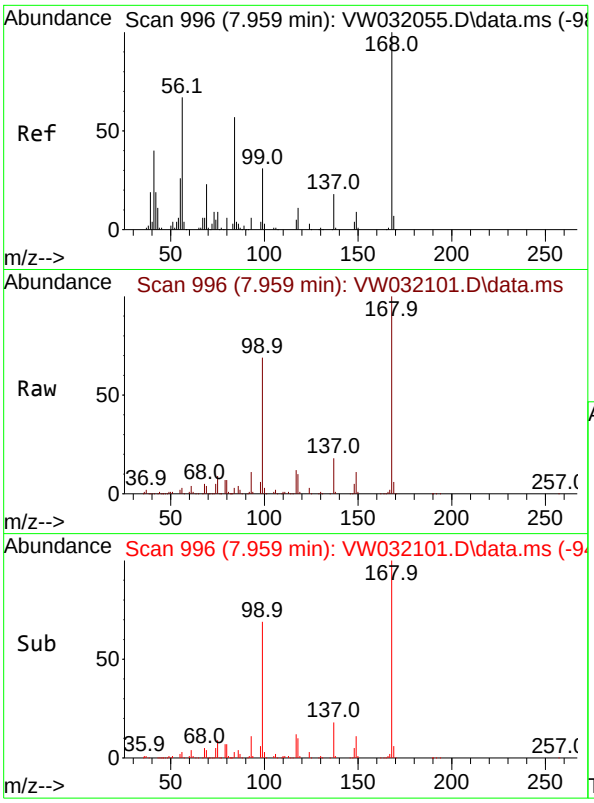
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032101.D
Acq On : 14 Aug 2025 18:02
Operator : SY/MD
Sample : Q2820-18
Misc : 7.59g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Quant Time: Aug 18 03:56:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



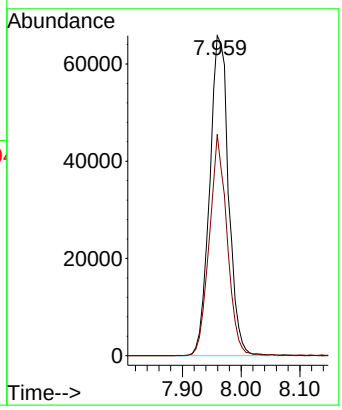


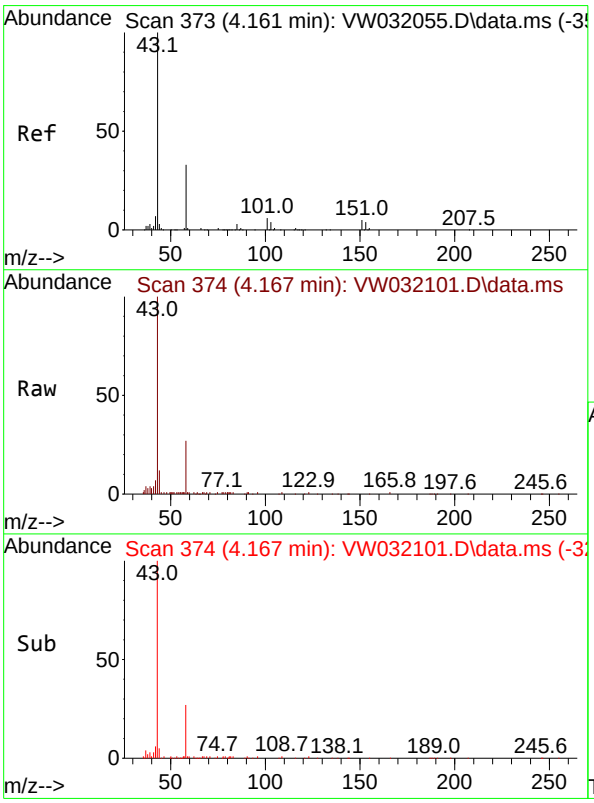
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Tgt Ion:168 Resp: 147385

Ion	Ratio	Lower	Upper
168	100		
99	69.1	56.0	84.0

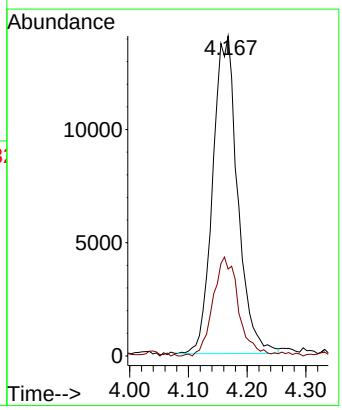


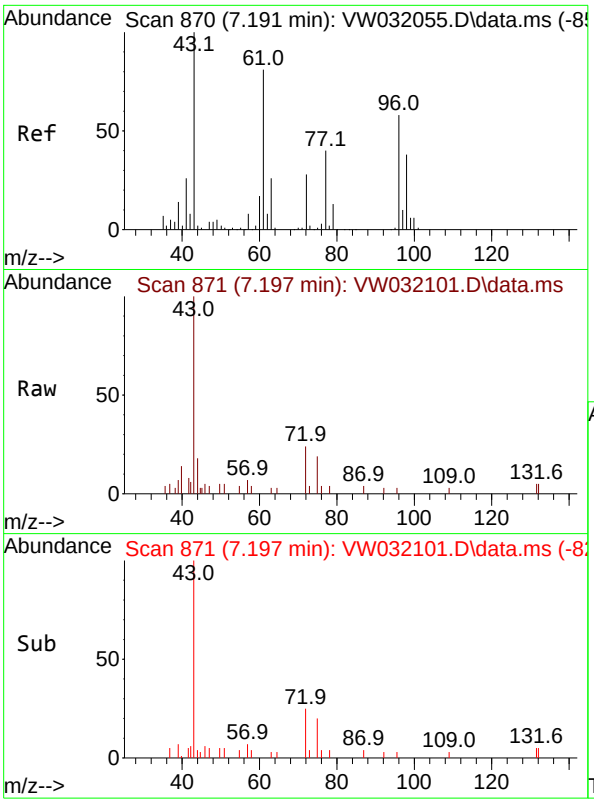


#16
Acetone
Concen: 83.903 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Tgt Ion: 43 Resp: 41408

Ion	Ratio	Lower	Upper
43	100		
58	27.4	26.6	39.8



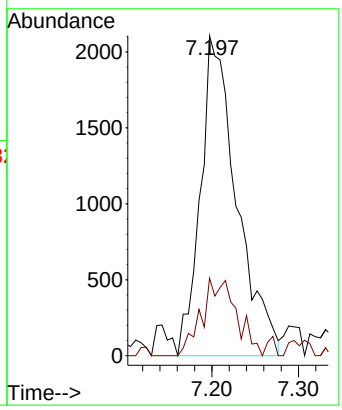


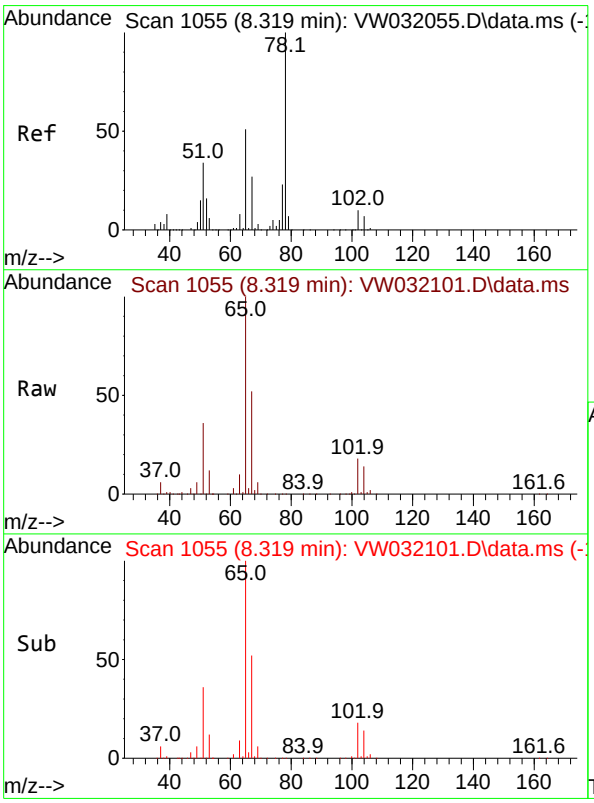
#25
2-Butanone
Concen: 8.721 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Tgt Ion: 43 Resp: 6117

Ion	Ratio	Lower	Upper
43	100		
72	24.2	22.3	33.5

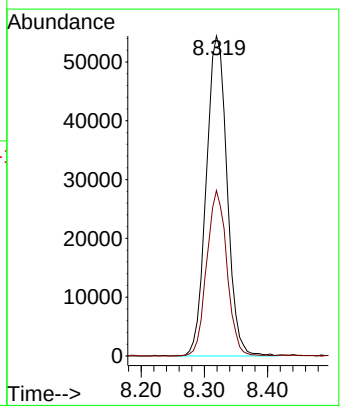


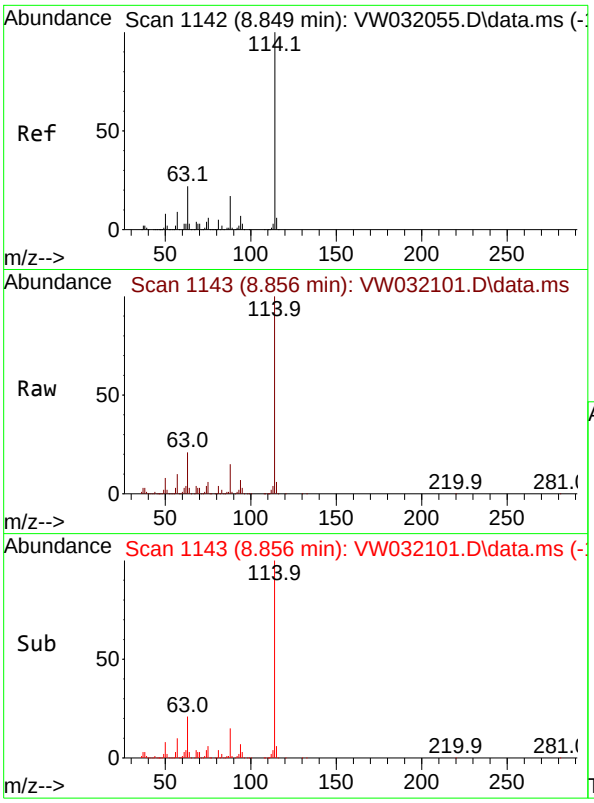


#33
1,2-Dichloroethane-d4
Concen: 58.417 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Tgt Ion: 65 Resp: 124522

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	102.4



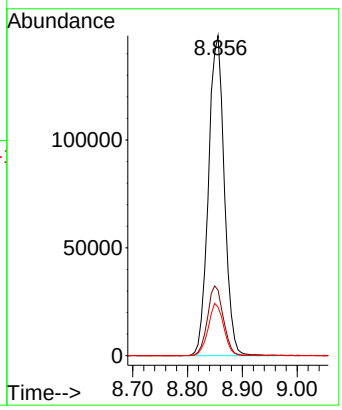


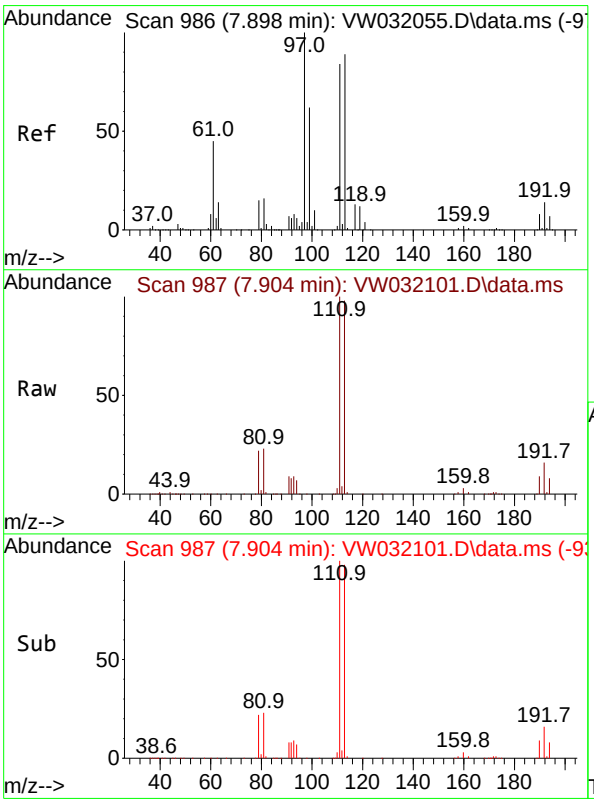
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Tgt Ion:114 Resp: 297090

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	43.0
88	15.2	0.0	33.8

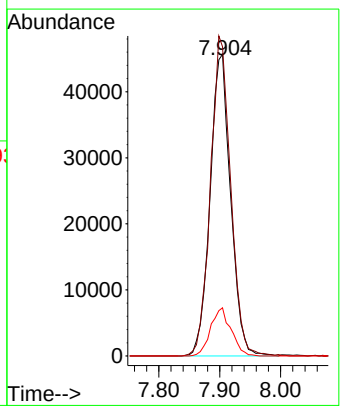


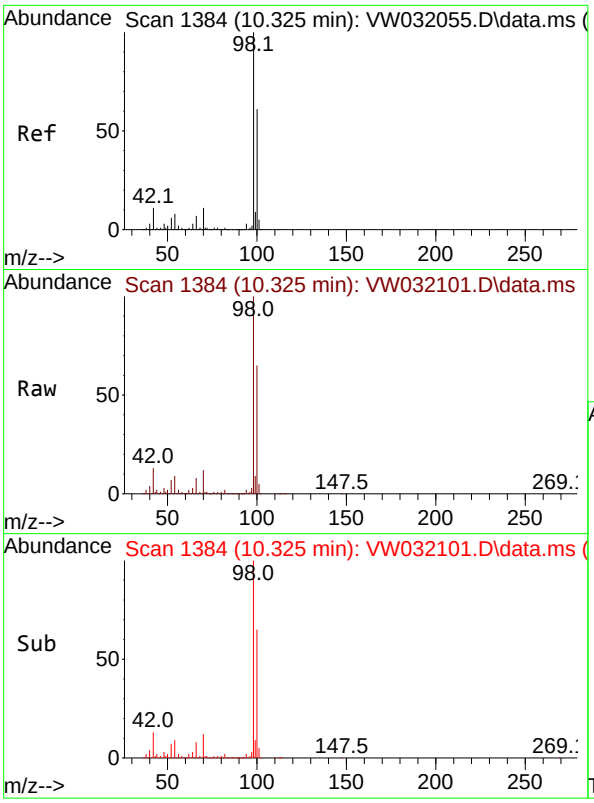


#35
Dibromofluoromethane
Concen: 55.709 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Tgt Ion:113 Resp: 106924

Ion	Ratio	Lower	Upper
113	100		
111	104.3	80.1	120.1
192	15.8	13.1	19.7



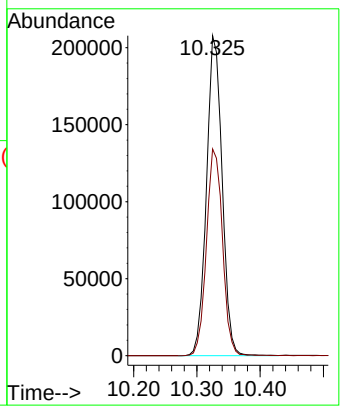


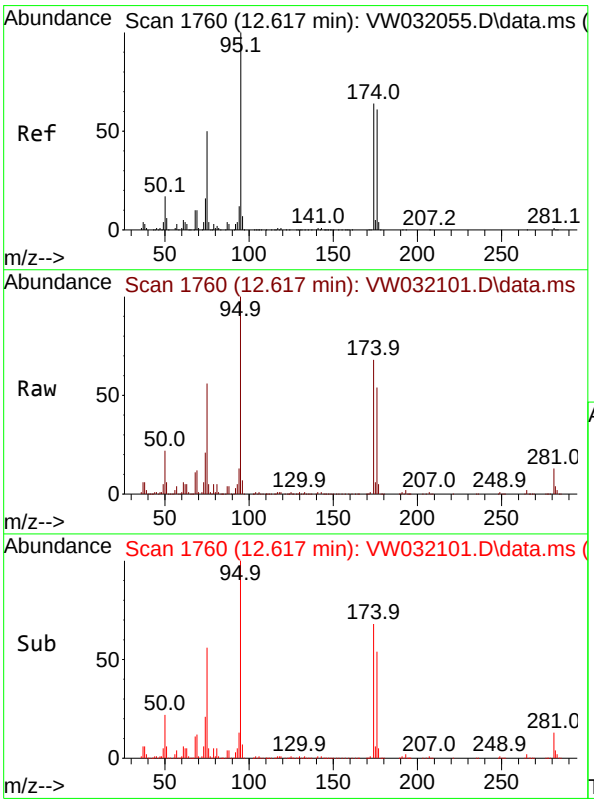
#50
Toluene-d8
Concen: 50.467 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Tgt Ion: 98 Resp: 358263

Ion	Ratio	Lower	Upper
98	100		
100	66.2	51.1	76.7

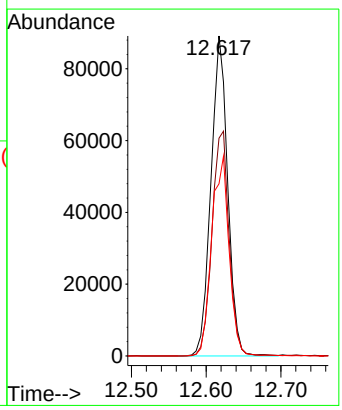


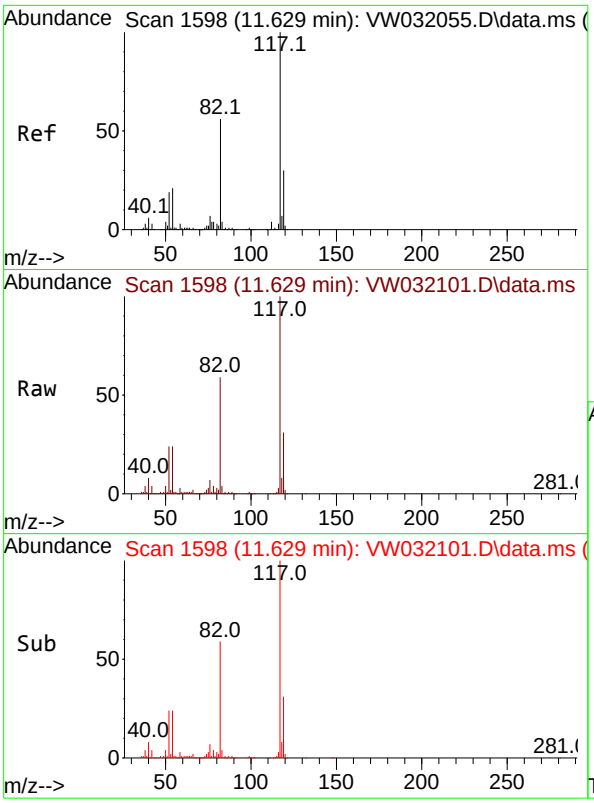


#62
4-Bromofluorobenzene
Concen: 53.015 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Tgt Ion: 95 Resp: 138690

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	129.0
176	65.2	0.0	124.6



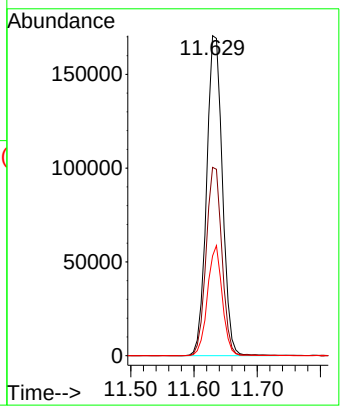


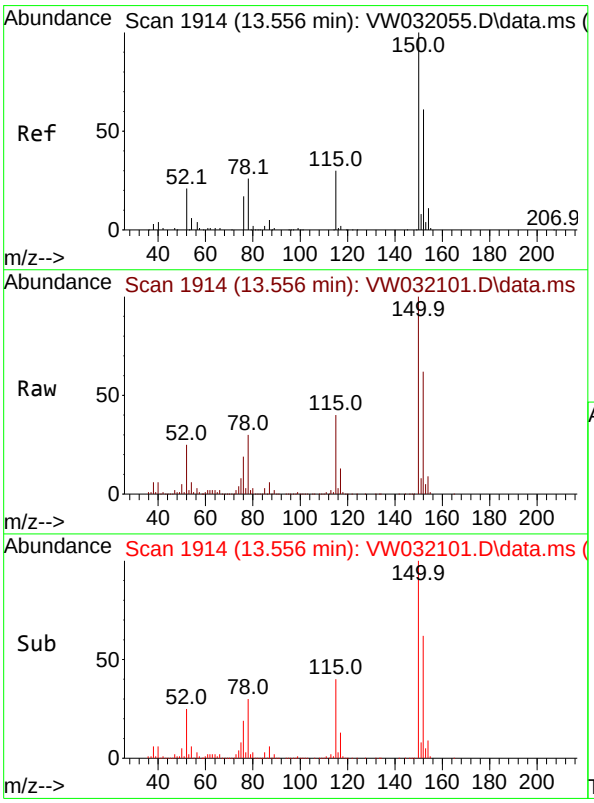
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Tgt Ion:117 Resp: 296209

Ion	Ratio	Lower	Upper
117	100		
82	58.9	45.0	67.4
119	31.2	24.2	36.4

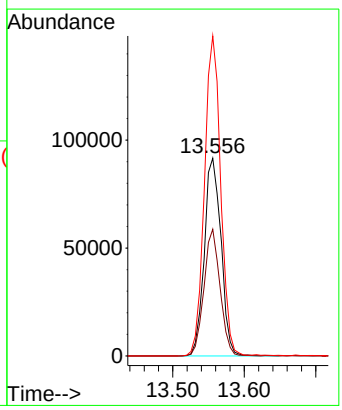




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032101.D
Acq: 14 Aug 2025 18:02

Tgt Ion:152 Resp: 149072

Ion	Ratio	Lower	Upper
152	100		
115	61.7	32.6	97.8
150	156.5	0.0	359.4



Sample Results: **VW032101.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032101.D
Acq On : 14 Aug 2025 18:02
Operator : SY/MD
Sample : Q2820-18
Misc : 7.59g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-N

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032101.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	365	374	383	rVB2	24044	74819	7.47%	1.271%
2	4.954	493	503	511	rBV6	7544	27459	2.74%	0.466%
3	5.960	661	668	677	rBV7	3703	11195	1.12%	0.190%
4	7.898	975	986	991	rBV	156468	366095	36.56%	6.217%
5	7.959	991	996	1010	rVB	219250	490256	48.96%	8.326%
6	8.319	1045	1055	1067	rBV	151315	345768	34.53%	5.872%
7	8.849	1132	1142	1152	rBV	356939	743153	74.22%	12.620%
8	10.325	1375	1384	1399	rBV	561884	1001309	100.00%	17.004%
9	11.629	1590	1598	1606	rBV	560197	976946	97.57%	16.591%
10	11.715	1608	1612	1620	rVB7	4416	11062	1.10%	0.188%
11	12.617	1751	1760	1771	rBV3	467576	844559	84.35%	14.342%
12	13.556	1907	1914	1927	rVB	607141	964201	96.29%	16.374%
13	14.056	1987	1996	2002	rBV2	10599	20901	2.09%	0.355%
14	14.714	2096	2104	2109	rBV9	5082	10840	1.08%	0.184%

Sum of corrected areas: 5888563

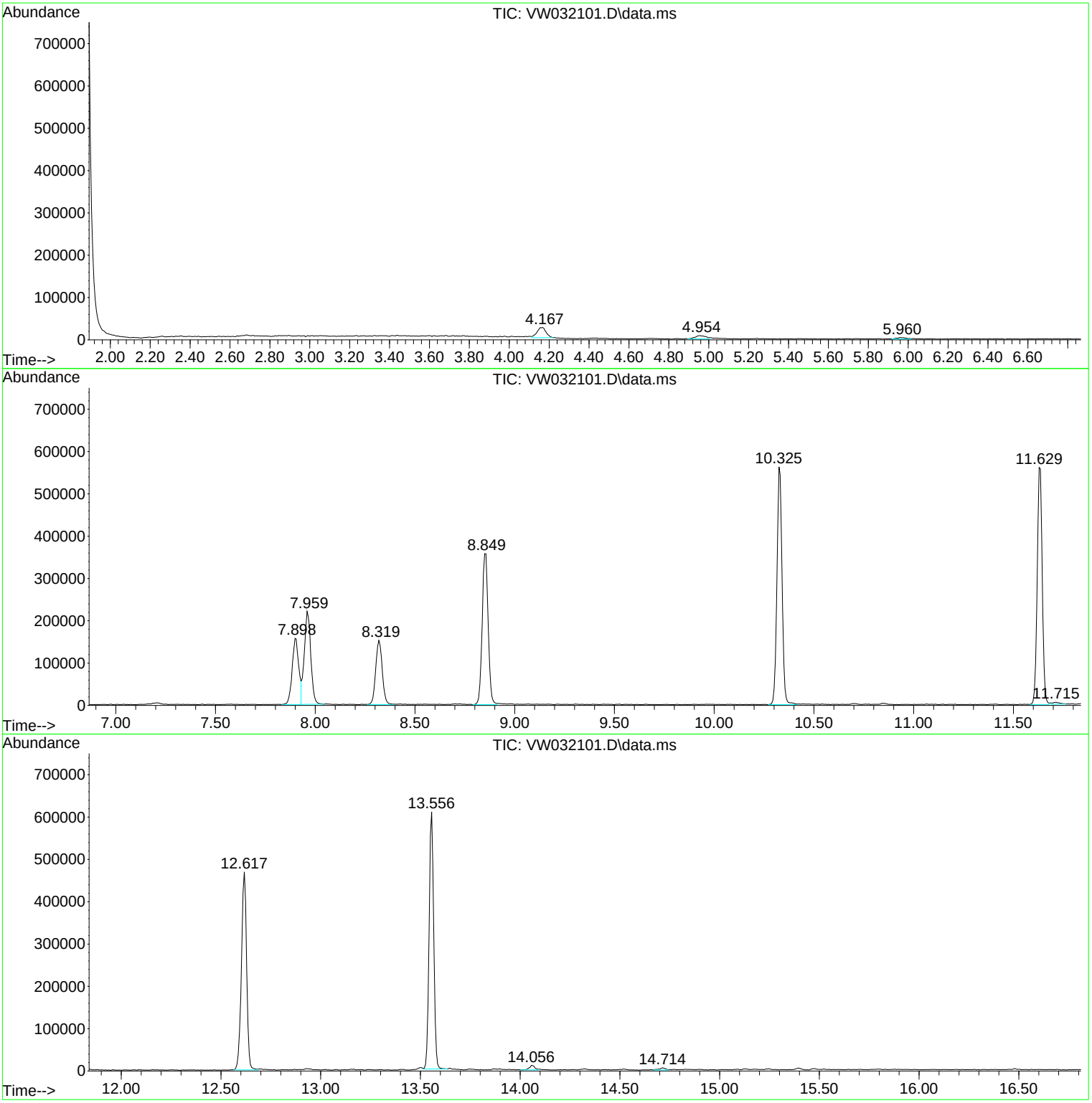
Sample Results: **VW032101.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032101.D
Acq On : 14 Aug 2025 18:02
Operator : SY/MD
Sample : Q2820-18
Misc : 7.59g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032101.D
Acq On : 14 Aug 2025 18:02
Operator : SY/MD
Sample : Q2820-18
Misc : 7.59g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032101.D
Acq On : 14 Aug 2025 18:02
Operator : SY/MD
Sample : Q2820-18
Misc : 7.59g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032102.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-19	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.6
Sample Wt/Vol:	9.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032102.D	1	08/14/25 18:25	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.30	U	0.67	2.30	2.90	ug/Kg
74-87-3	Chloromethane	1.50	U	0.67	1.50	2.90	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	0.46	1.50	2.90	ug/Kg
74-83-9	Bromomethane	2.30	U	0.63	2.30	2.90	ug/Kg
75-00-3	Chloroethane	1.50	U	0.74	1.50	2.90	ug/Kg
75-69-4	Trichlorofluoromethane	2.30	U	0.71	2.30	2.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	0.62	1.50	2.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.50	U	0.59	1.50	2.90	ug/Kg
67-64-1	Acetone	58.9		2.80	11.7	14.7	ug/Kg
75-15-0	Carbon Disulfide	2.30	U	0.62	2.30	2.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.50	U	0.43	1.50	2.90	ug/Kg
79-20-9	Methyl Acetate	2.30	U	0.90	2.30	2.90	ug/Kg
75-09-2	Methylene Chloride	3.80	J	2.10	4.70	5.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	0.50	1.50	2.90	ug/Kg
75-34-3	1,1-Dichloroethane	1.50	U	0.47	1.50	2.90	ug/Kg
110-82-7	Cyclohexane	1.50	U	0.46	1.50	2.90	ug/Kg
78-93-3	2-Butanone	5.50	J	3.80	11.7	14.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	0.57	1.50	2.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.50	U	0.44	1.50	2.90	ug/Kg
74-97-5	Bromochloromethane	2.30	U	0.67	2.30	2.90	ug/Kg
67-66-3	Chloroform	2.30	U	0.49	2.30	2.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	0.54	1.50	2.90	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	0.53	1.50	2.90	ug/Kg
71-43-2	Benzene	1.50	U	0.46	1.50	2.90	ug/Kg
107-06-2	1,2-Dichloroethane	1.50	U	0.46	1.50	2.90	ug/Kg
79-01-6	Trichloroethene	1.50	U	0.47	1.50	2.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	0.53	1.50	2.90	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	0.46	1.50	2.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.30	U	2.10	7.30	14.7	ug/Kg
108-88-3	Toluene	1.50	U	0.46	1.50	2.90	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-19	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.6
Sample Wt/Vol:	9.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032102.D	1	08/14/25 18:25	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.50	U	0.38	1.50	2.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.50	U	0.36	1.50	2.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	0.54	1.50	2.90	ug/Kg
591-78-6	2-Hexanone	7.30	U	2.20	7.30	14.7	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	0.51	1.50	2.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	0.52	1.50	2.90	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	0.62	1.50	2.90	ug/Kg
108-90-7	Chlorobenzene	1.50	U	0.53	1.50	2.90	ug/Kg
100-41-4	Ethyl Benzene	1.50	U	0.39	1.50	2.90	ug/Kg
179601-23-1	m/p-Xylenes	2.90	U	0.73	2.90	5.90	ug/Kg
95-47-6	o-Xylene	1.50	U	0.48	1.50	2.90	ug/Kg
100-42-5	Styrene	1.50	U	0.42	1.50	2.90	ug/Kg
75-25-2	Bromoform	1.50	U	0.50	1.50	2.90	ug/Kg
98-82-8	Isopropylbenzene	1.50	U	0.46	1.50	2.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	0.71	1.50	2.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.00	1.50	2.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	0.91	1.50	2.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	0.85	1.50	2.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	1.10	2.30	2.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	1.70	2.30	2.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.30	U	1.90	2.30	2.90	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.5		71 - 136		119%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	50.2		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		79 - 119		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	140000	7.965				
540-36-3	1,4-Difluorobenzene	295000	8.855				
3114-55-4	Chlorobenzene-d5	290000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.556				

Raw Data: **VW032102.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-19	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.6
Sample Wt/Vol:	9.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032102.D	1	08/14/25 18:25	VW081425

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

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

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

Sample Results: **VW032102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032102.D
Acq On : 14 Aug 2025 18:25
Operator : SY/MD
Sample : Q2820-19
Misc : 9.63g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Quant Time: Aug 18 03:56:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

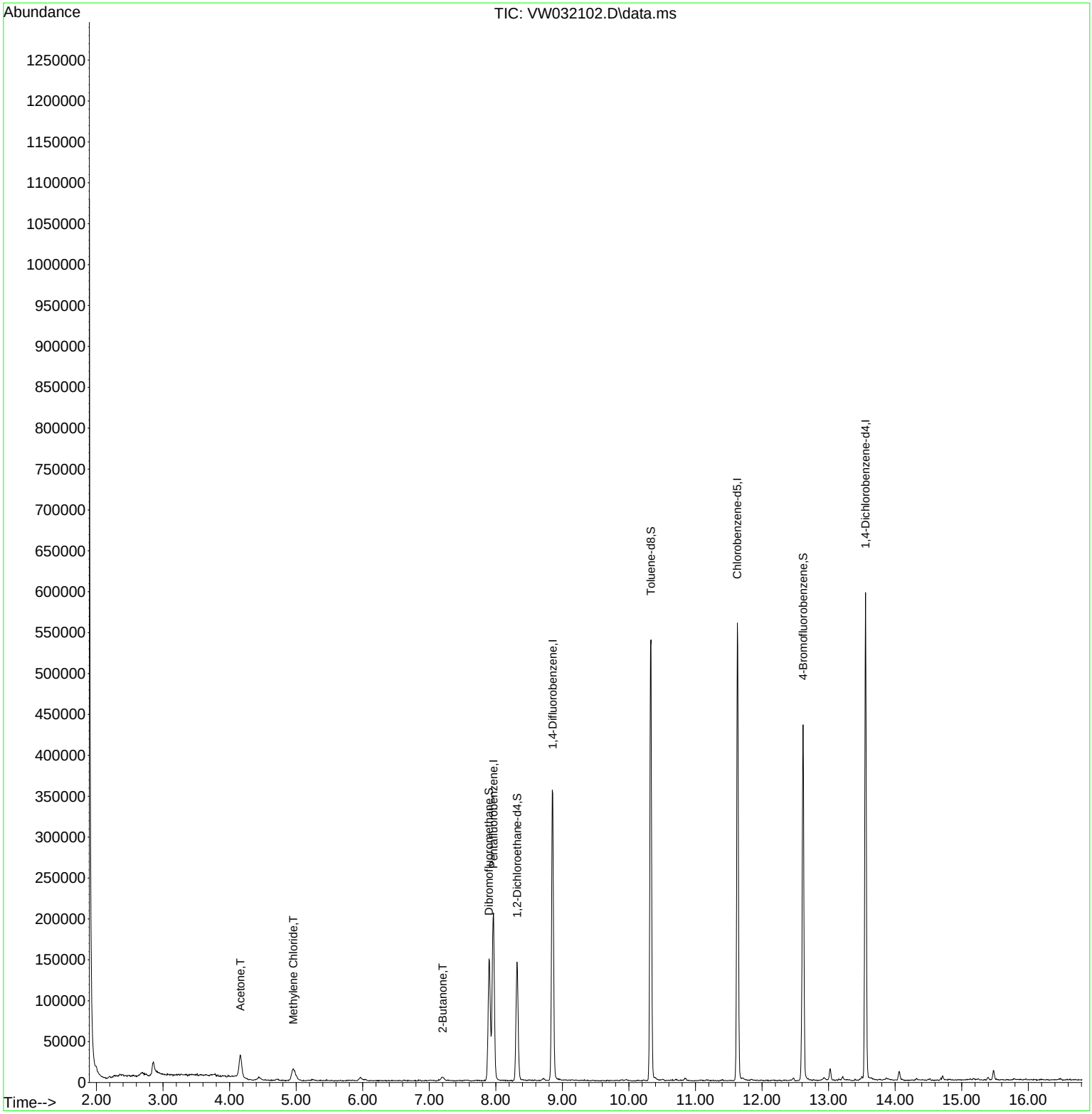
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	140101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	295249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	289791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	144659	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120615	59.526	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 119.060%			
35) Dibromofluoromethane	7.898	113	104033	54.541	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 109.080%			
50) Toluene-d8	10.331	98	354368	50.229	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.460%			
62) 4-Bromofluorobenzene	12.617	95	130042	50.019	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 100.040%			
Target Compounds						Qvalue
16) Acetone	4.161	43	47189	100.588	ug/l	90
20) Methylene Chloride	4.960	84	14172	6.534	ug/l	94
25) 2-Butanone	7.203	43	6261	9.390	ug/l	94

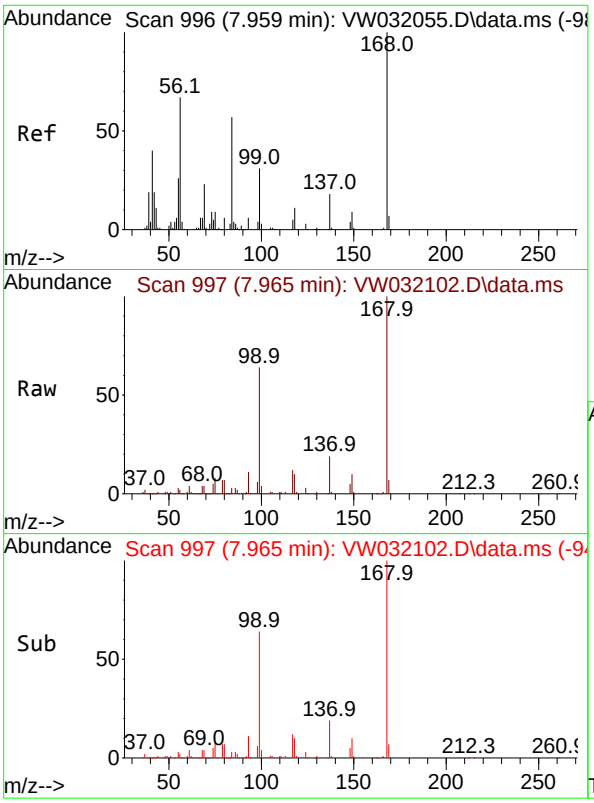
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032102.D
Acq On : 14 Aug 2025 18:25
Operator : SY/MD
Sample : Q2820-19
Misc : 9.63g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Quant Time: Aug 18 03:56:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



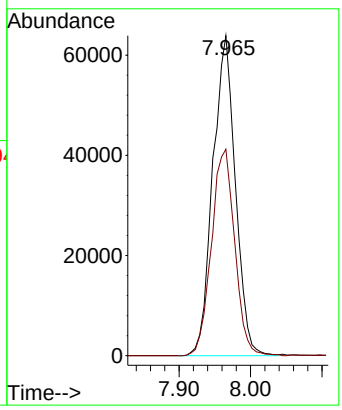


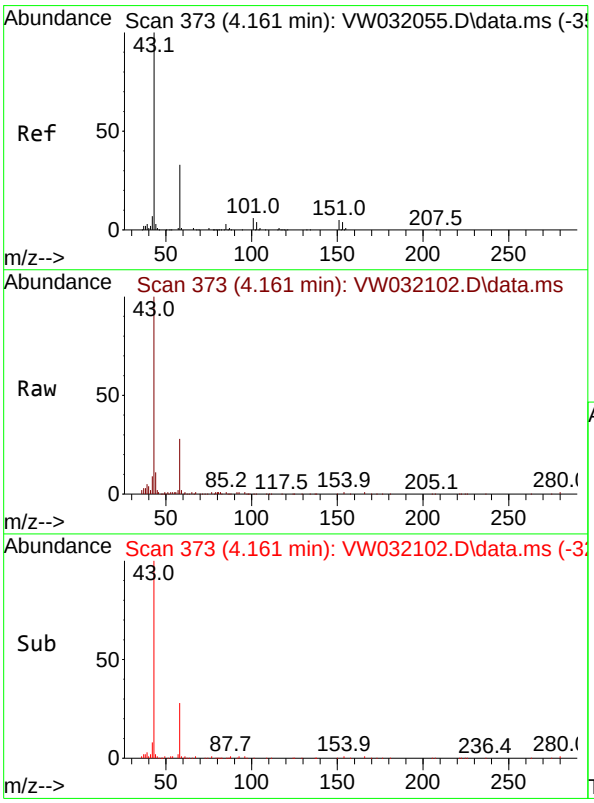
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Tgt Ion:168 Resp: 140101

Ion	Ratio	Lower	Upper
168	100		
99	64.5	56.0	84.0

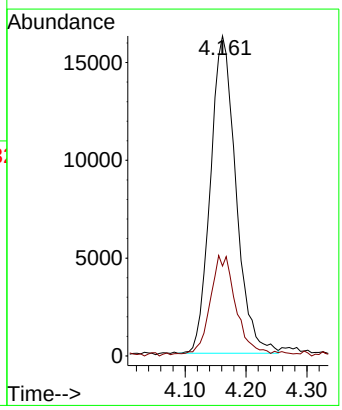


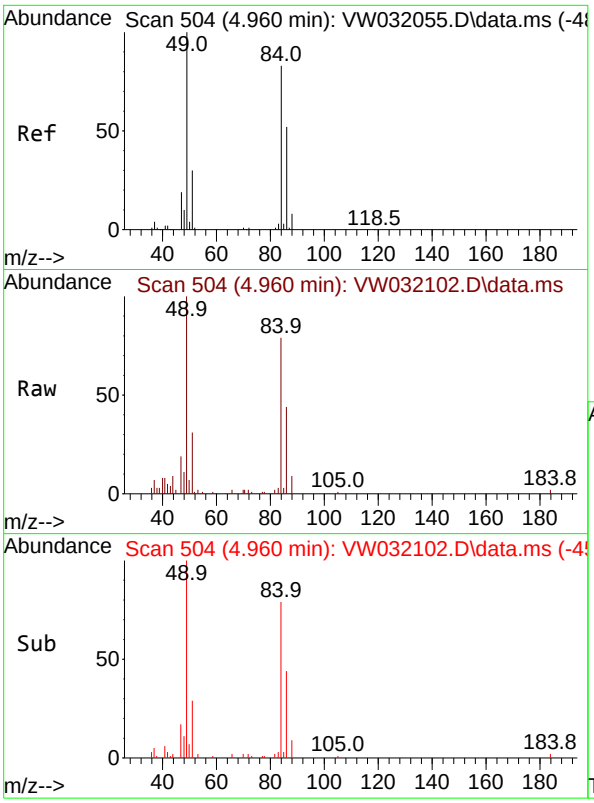


#16
Acetone
Concen: 100.588 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Tgt Ion: 43 Resp: 47189

Ion	Ratio	Lower	Upper
43	100		
58	27.6	26.6	39.8



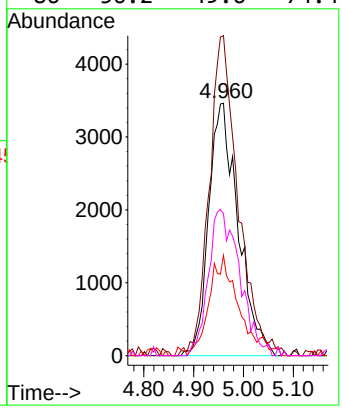


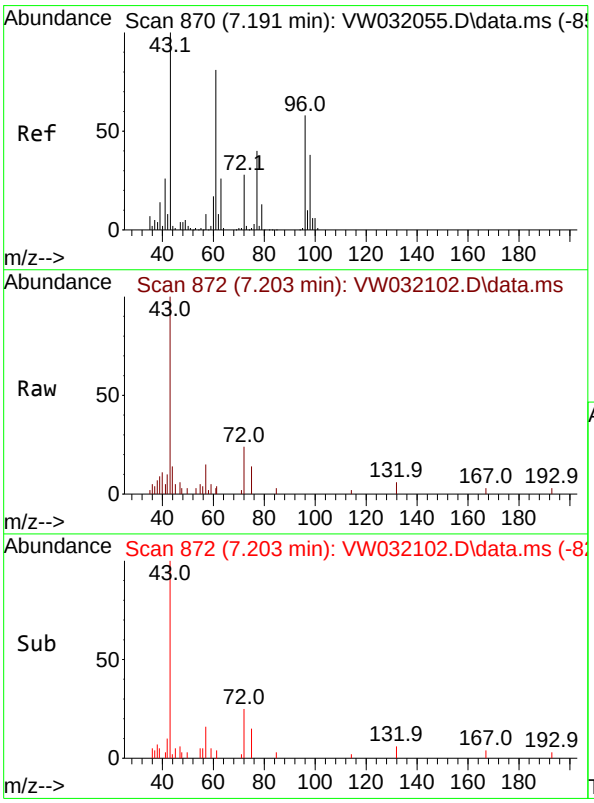
#20
Methylene Chloride
Concen: 6.534 ug/l
RT: 4.960 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Tgt Ion: 84 Resp: 14172

Ion	Ratio	Lower	Upper
84	100		
49	126.8	95.9	143.9
51	36.3	28.6	43.0
86	56.2	49.6	74.4

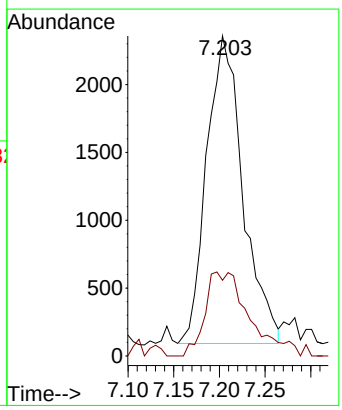


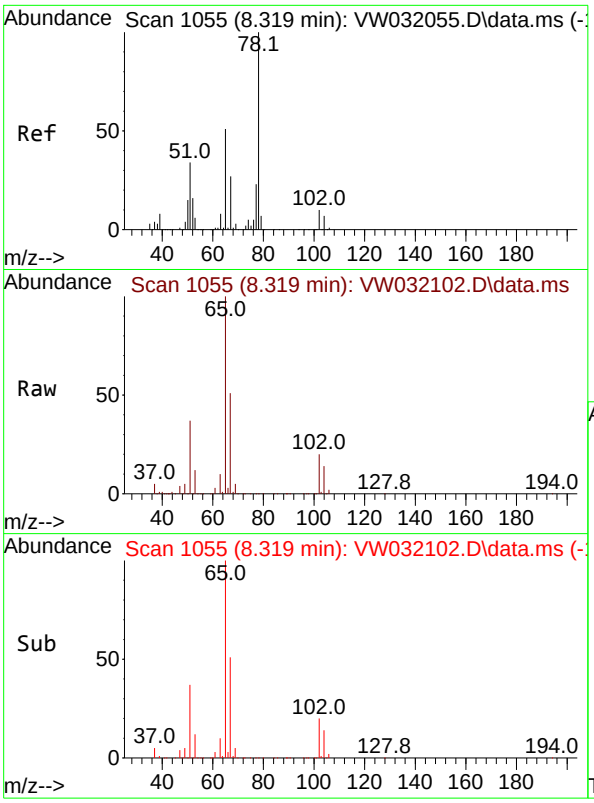


#25
2-Butanone
Concen: 9.390 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Tgt Ion: 43 Resp: 6261

Ion	Ratio	Lower	Upper
43	100		
72	24.6	22.3	33.5



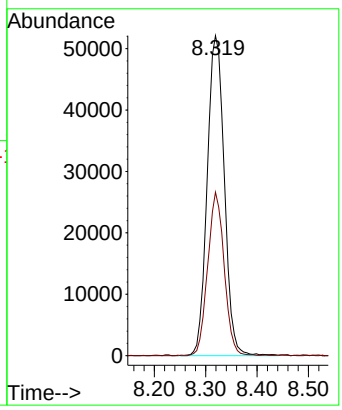


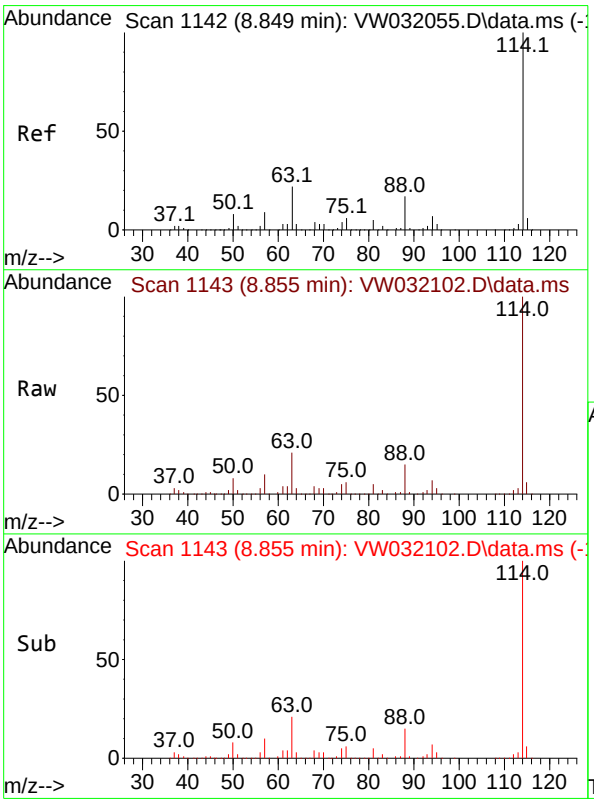
#33
1,2-Dichloroethane-d4
Concen: 59.526 ug/l
RT: 8.319 min Scan# 10
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Tgt Ion: 65 Resp: 120615

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	102.4

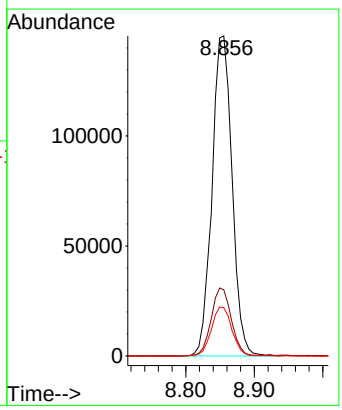


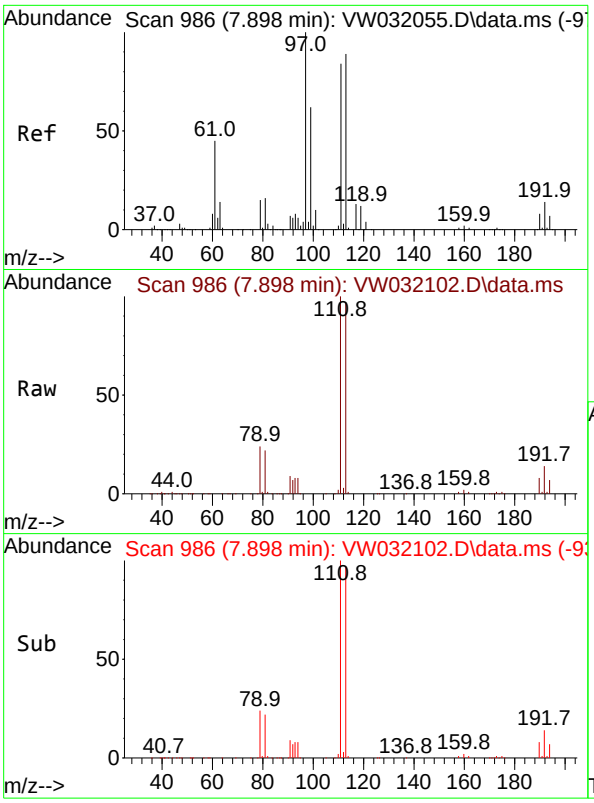


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Tgt Ion:114 Resp: 295249

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.0
88	15.1	0.0	33.8



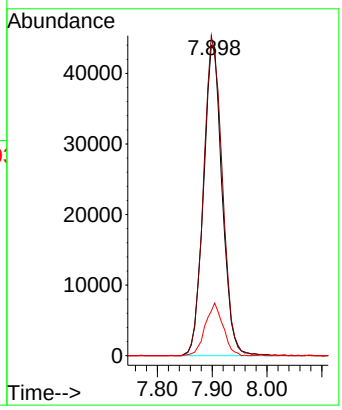


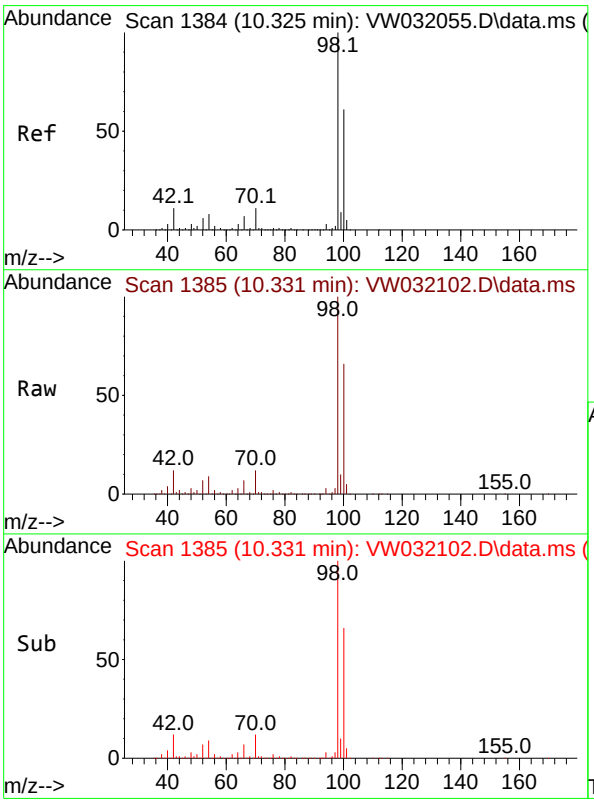
#35
Dibromofluoromethane
Concen: 54.541 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Tgt Ion:113 Resp: 104033

Ion	Ratio	Lower	Upper
113	100		
111	103.6	80.1	120.1
192	16.2	13.1	19.7

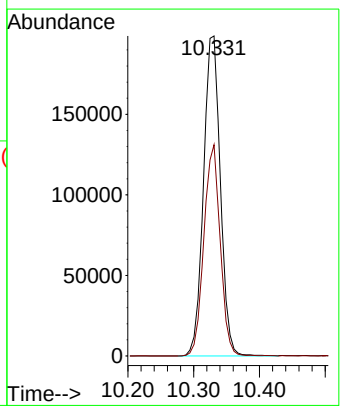


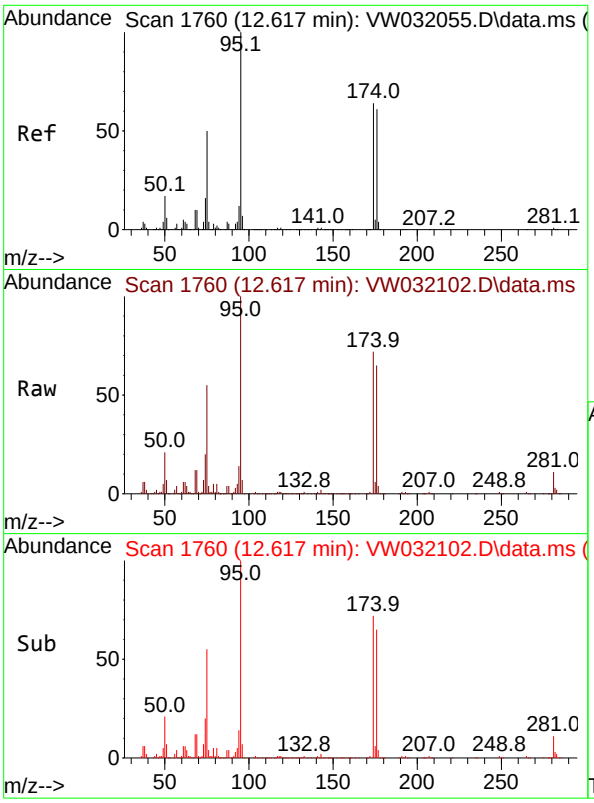


#50
Toluene-d8
Concen: 50.229 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Tgt Ion: 98 Resp: 354368

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.1	76.7



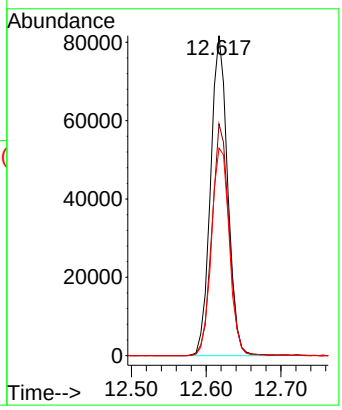


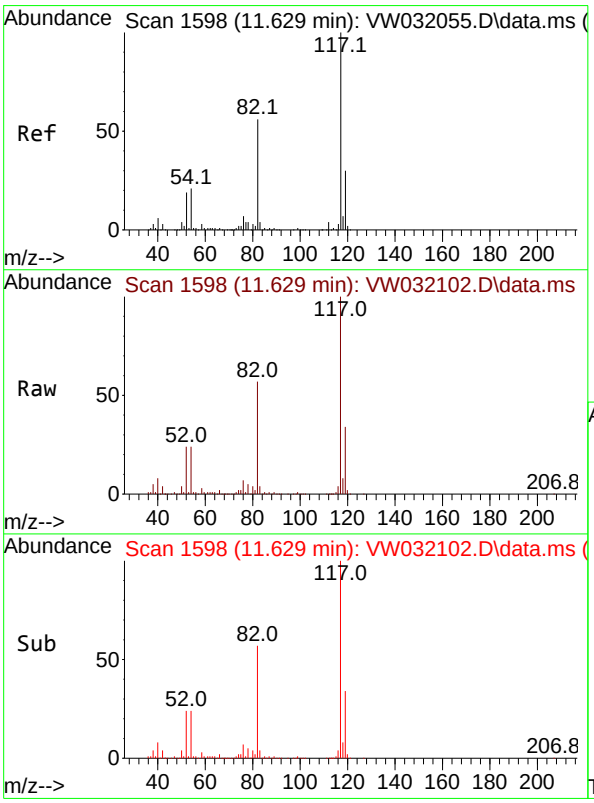
#62
4-Bromofluorobenzene
Concen: 50.019 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Tgt Ion: 95 Resp: 130042

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	129.0
176	68.0	0.0	124.6

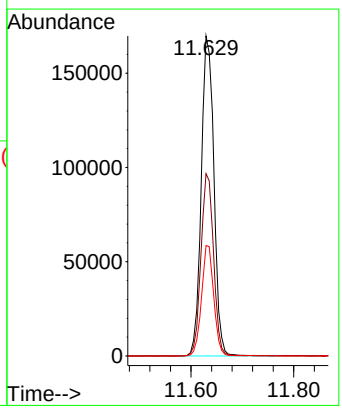


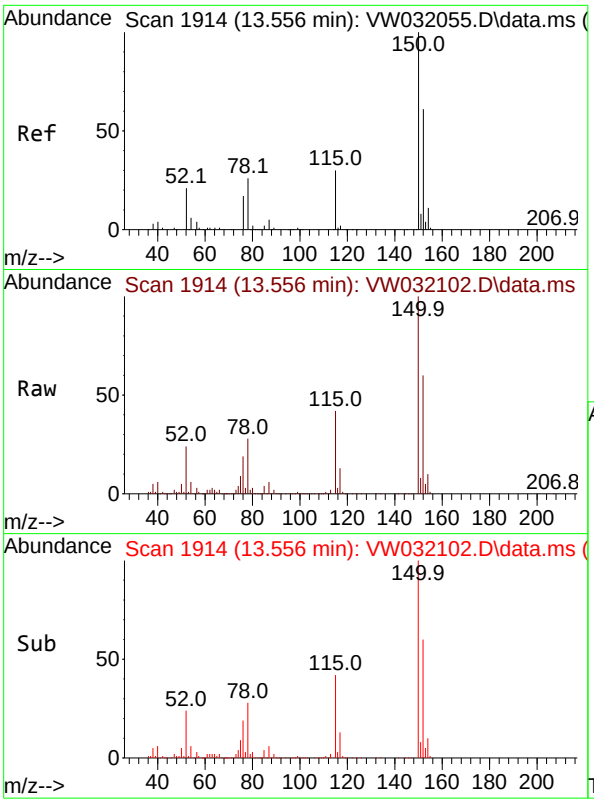


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Tgt Ion:117 Resp: 289791

Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.0	67.4
119	34.5	24.2	36.4



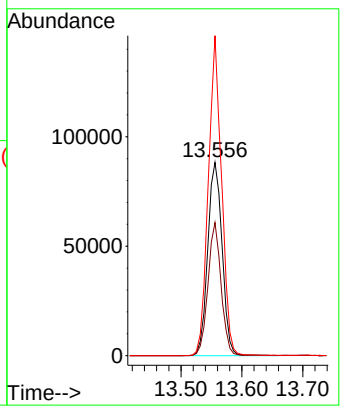


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032102.D
Acq: 14 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Tgt Ion:152 Resp: 144659

Ion	Ratio	Lower	Upper
152	100		
115	62.9	32.6	97.8
150	153.0	0.0	359.4



Sample Results: **VW032102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032102.D
Acq On : 14 Aug 2025 18:25
Operator : SY/MD
Sample : Q2820-19
Misc : 9.63g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032102.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.857	153	159	167	rBV	14885	38812	4.02%	0.666%
2	4.161	364	373	394	rVB2	30429	107972	11.17%	1.854%
3	4.960	492	504	520	rBV3	14451	64528	6.68%	1.108%
4	5.966	662	669	677	rBV9	4053	11540	1.19%	0.198%
5	7.191	863	870	882	rVB4	4248	14393	1.49%	0.247%
6	7.898	976	986	991	rBV	148353	355151	36.75%	6.097%
7	7.965	991	997	1014	rVB	205038	477546	49.42%	8.198%
8	8.319	1044	1055	1067	rBV	146084	334829	34.65%	5.748%
9	8.849	1133	1142	1154	rBV	355260	729038	75.44%	12.515%
10	10.331	1375	1385	1393	rBV	539182	966391	100.00%	16.590%
11	11.629	1589	1598	1609	rBV	559800	953008	98.62%	16.360%
12	12.617	1749	1760	1771	rBV2	435064	777075	80.41%	13.340%
13	13.025	1821	1827	1833	rVB4	13783	24148	2.50%	0.415%
14	13.556	1907	1914	1921	rBV	593815	930611	96.30%	15.975%
15	14.062	1991	1997	2002	rBV2	10529	19397	2.01%	0.333%
16	15.476	2223	2229	2235	rBV	11496	20853	2.16%	0.358%

Sum of corrected areas: 5825292

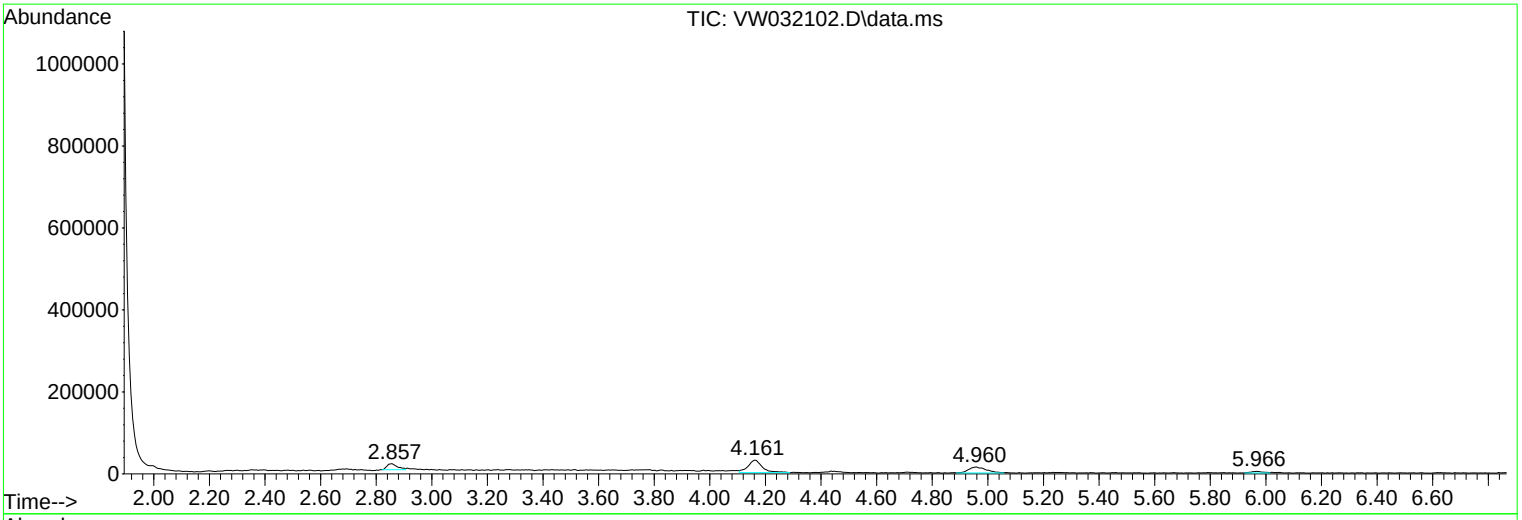
Sample Results: **VW032102.D**

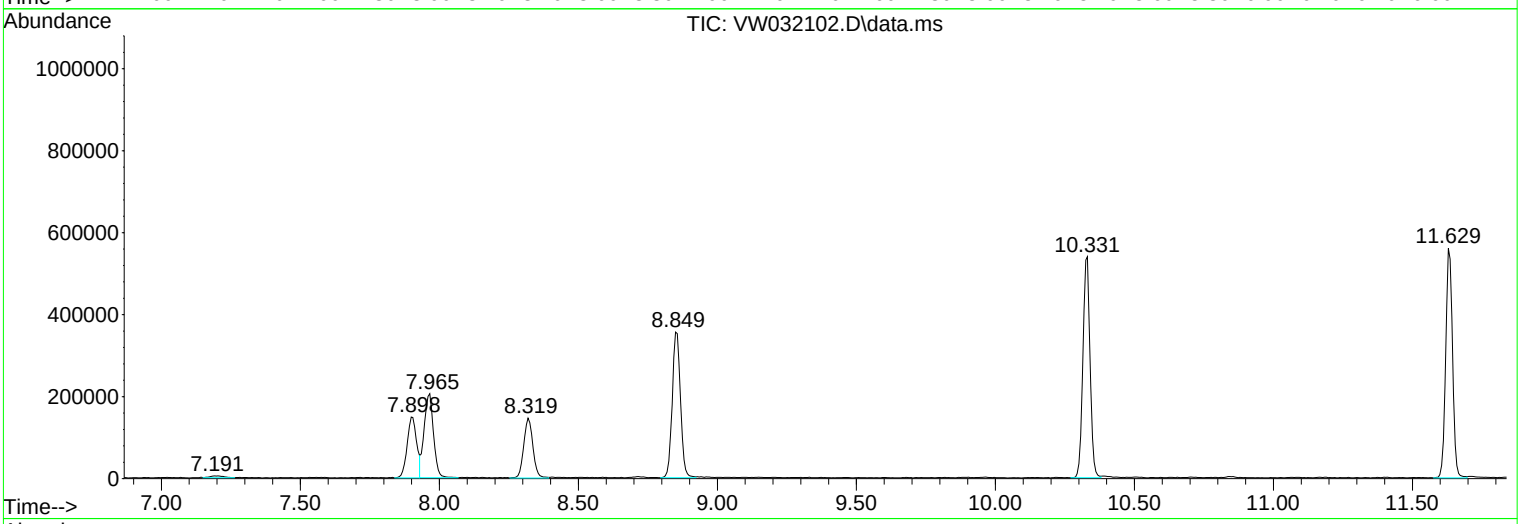
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032102.D
Acq On : 14 Aug 2025 18:25
Operator : SY/MD
Sample : Q2820-19
Misc : 9.63g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

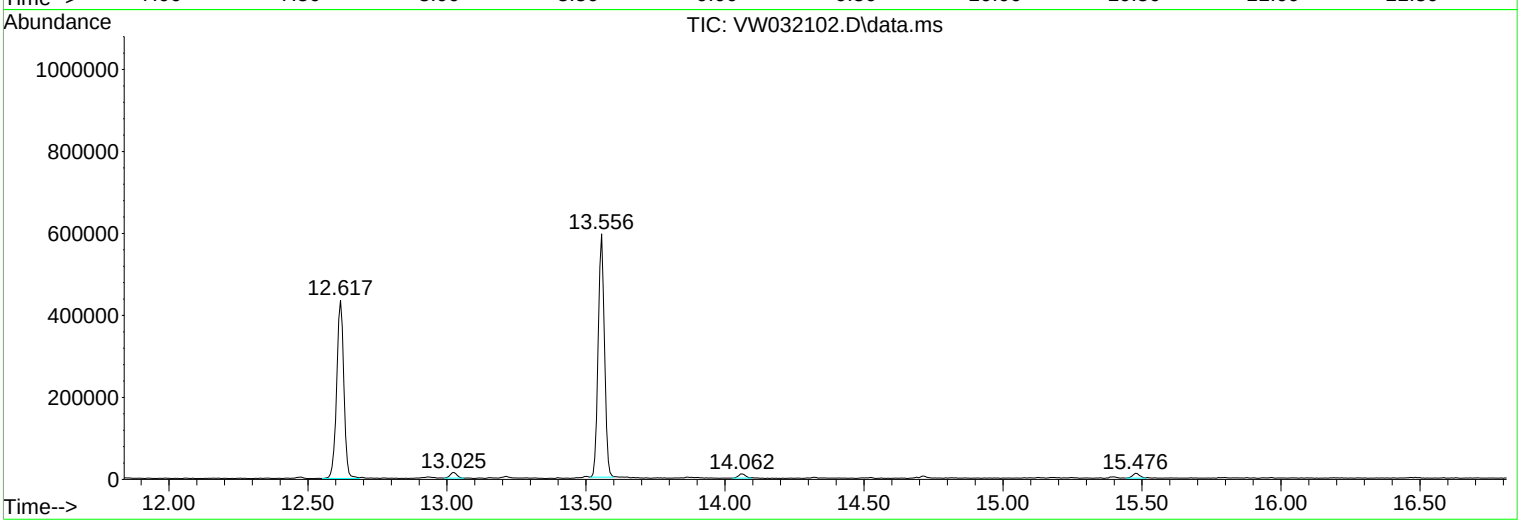
Instrument :
MSVOA_W
ClientSampleId :
88H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VW032102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032102.D
Acq On : 14 Aug 2025 18:25
Operator : SY/MD
Sample : Q2820-19
Misc : 9.63g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Sample Results: **VW032102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032102.D
Acq On : 14 Aug 2025 18:25
Operator : SY/MD
Sample : Q2820-19
Misc : 9.63g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

Raw Data: **VW032103.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-20	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84.6
Sample Wt/Vol:	8.76 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032103.D	1	08/14/25 18:47	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.70	U	0.77	2.70	3.40	ug/Kg
74-87-3	Chloromethane	1.70	U	0.77	1.70	3.40	ug/Kg
75-01-4	Vinyl Chloride	1.70	U	0.53	1.70	3.40	ug/Kg
74-83-9	Bromomethane	2.70	U	0.72	2.70	3.40	ug/Kg
75-00-3	Chloroethane	1.70	U	0.85	1.70	3.40	ug/Kg
75-69-4	Trichlorofluoromethane	2.70	U	0.82	2.70	3.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	0.72	1.70	3.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.70	U	0.67	1.70	3.40	ug/Kg
67-64-1	Acetone	47.3		3.20	13.5	16.9	ug/Kg
75-15-0	Carbon Disulfide	2.70	U	0.72	2.70	3.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.70	U	0.49	1.70	3.40	ug/Kg
79-20-9	Methyl Acetate	2.70	U	1.00	2.70	3.40	ug/Kg
75-09-2	Methylene Chloride	5.40	U	2.40	5.40	6.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.70	U	0.58	1.70	3.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.70	U	0.54	1.70	3.40	ug/Kg
110-82-7	Cyclohexane	1.70	U	0.53	1.70	3.40	ug/Kg
78-93-3	2-Butanone	13.5	U	4.40	13.5	16.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	0.65	1.70	3.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.70	U	0.51	1.70	3.40	ug/Kg
74-97-5	Bromochloromethane	2.70	U	0.78	2.70	3.40	ug/Kg
67-66-3	Chloroform	2.70	U	0.57	2.70	3.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.70	U	0.63	1.70	3.40	ug/Kg
108-87-2	Methylcyclohexane	1.70	U	0.61	1.70	3.40	ug/Kg
71-43-2	Benzene	1.70	U	0.53	1.70	3.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.70	U	0.53	1.70	3.40	ug/Kg
79-01-6	Trichloroethene	1.70	U	0.55	1.70	3.40	ug/Kg
78-87-5	1,2-Dichloropropane	1.70	U	0.61	1.70	3.40	ug/Kg
75-27-4	Bromodichloromethane	1.70	U	0.53	1.70	3.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	8.40	U	2.40	8.40	16.9	ug/Kg
108-88-3	Toluene	1.70	U	0.53	1.70	3.40	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-20	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84.6
Sample Wt/Vol:	8.76 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032103.D	1	08/14/25 18:47	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.70	U	0.44	1.70	3.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.70	U	0.42	1.70	3.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.70	U	0.62	1.70	3.40	ug/Kg
591-78-6	2-Hexanone	8.40	U	2.50	8.40	16.9	ug/Kg
124-48-1	Dibromochloromethane	1.70	U	0.59	1.70	3.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.70	U	0.59	1.70	3.40	ug/Kg
127-18-4	Tetrachloroethene	1.70	U	0.71	1.70	3.40	ug/Kg
108-90-7	Chlorobenzene	1.70	U	0.61	1.70	3.40	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	0.45	1.70	3.40	ug/Kg
179601-23-1	m/p-Xylenes	3.40	U	0.84	3.40	6.70	ug/Kg
95-47-6	o-Xylene	1.70	U	0.55	1.70	3.40	ug/Kg
100-42-5	Styrene	1.70	U	0.48	1.70	3.40	ug/Kg
75-25-2	Bromoform	1.70	U	0.58	1.70	3.40	ug/Kg
98-82-8	Isopropylbenzene	1.70	U	0.53	1.70	3.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	0.82	1.70	3.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.20	1.70	3.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.10	1.70	3.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	0.98	1.70	3.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.70	U	1.20	2.70	3.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.00	2.70	3.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.10	2.70	3.40	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.4		71 - 136		121%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		78 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	49.9		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	146000	7.965				
540-36-3	1,4-Difluorobenzene	298000	8.856				
3114-55-4	Chlorobenzene-d5	290000	11.636				
3855-82-1	1,4-Dichlorobenzene-d4	135000	13.556				
TENTATIVE IDENTIFIED COMPOUNDS							

Raw Data: **VW032103.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-20	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84.6
Sample Wt/Vol:	8.76 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032103.D	1	08/14/25 18:47	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000075-18-3	Dimethyl sulfide	4.30	J			4.24	ug/Kg

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032103.D
Acq On : 14 Aug 2025 18:47
Operator : SY/MD
Sample : Q2820-20
Misc : 8.76g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Quant Time: Aug 18 03:57:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

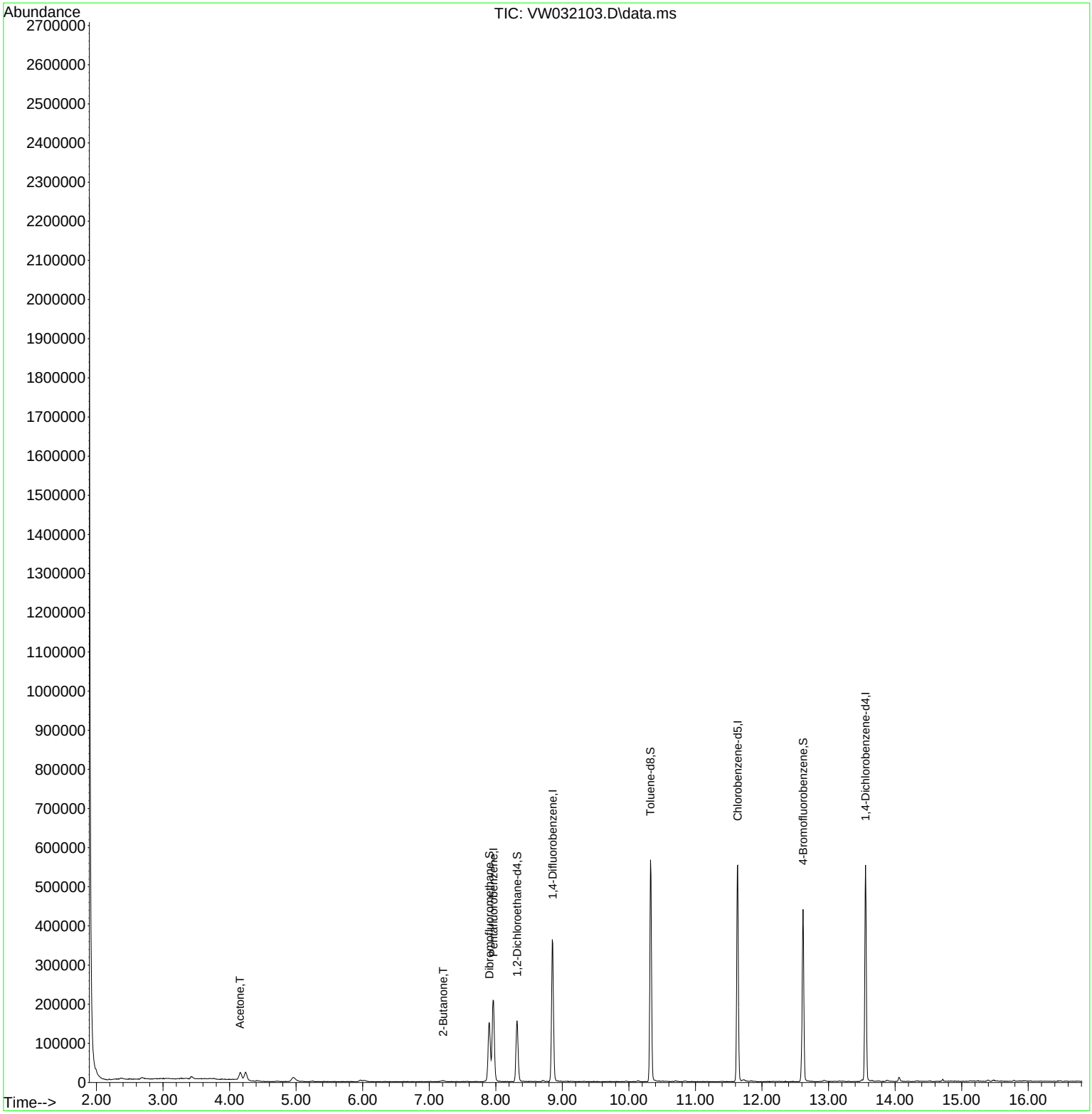
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	146240	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	298387	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	290020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	135214	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	127754	60.403	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 120.800%			
35) Dibromofluoromethane	7.904	113	106596	55.297	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.600%			
50) Toluene-d8	10.325	98	355808	49.903	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.800%			
62) 4-Bromofluorobenzene	12.617	95	126826	48.269	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 96.540%			
Target Compounds						Qvalue
16) Acetone	4.155	43	34321	70.088	ug/l	96
25) 2-Butanone	7.209	43	4485	6.444	ug/l #	89

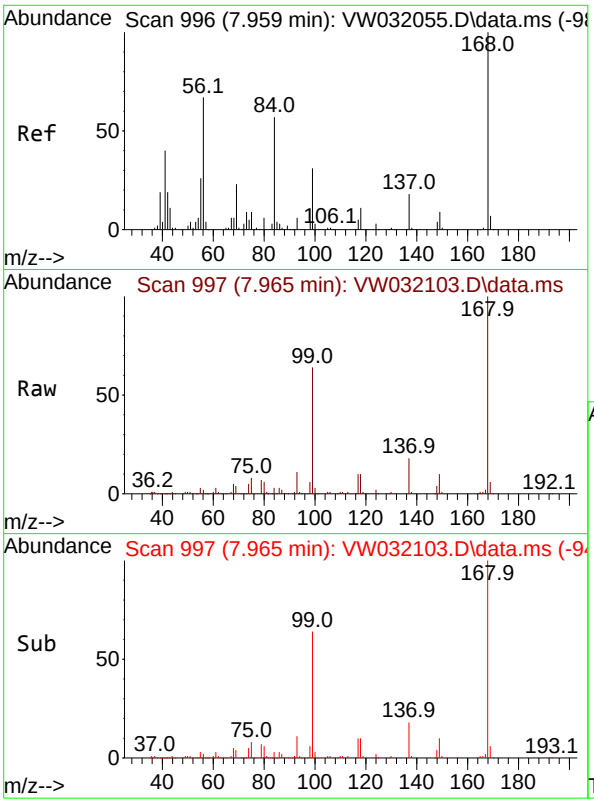
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032103.D
Acq On : 14 Aug 2025 18:47
Operator : SY/MD
Sample : Q2820-20
Misc : 8.76g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Quant Time: Aug 18 03:57:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



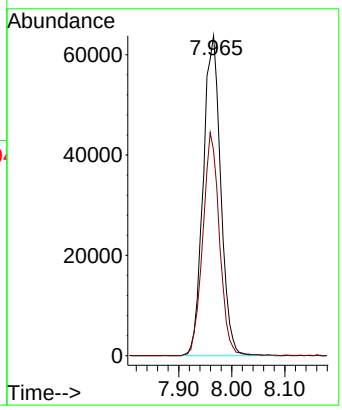


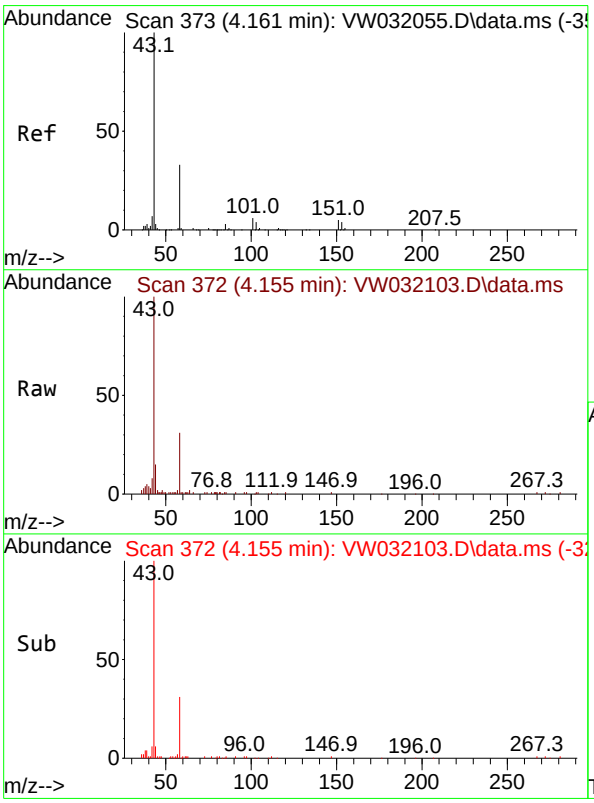
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Tgt Ion:168 Resp: 146240

Ion	Ratio	Lower	Upper
168	100		
99	64.1	56.0	84.0

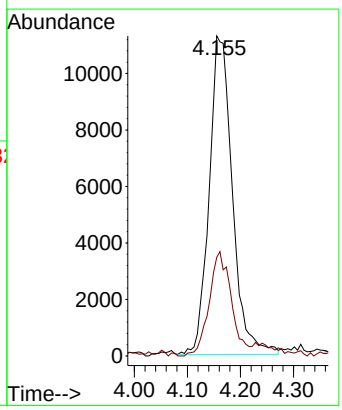


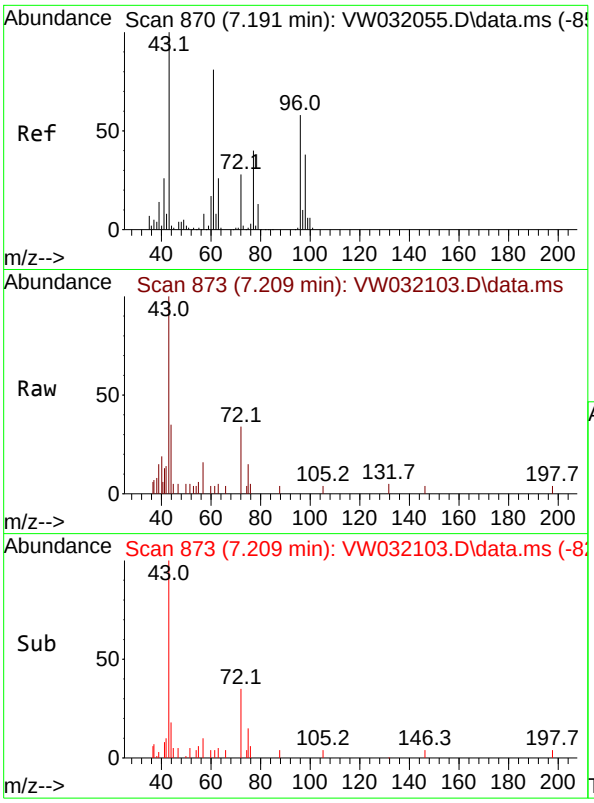


#16
Acetone
Concen: 70.088 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Tgt Ion: 43 Resp: 34321

Ion	Ratio	Lower	Upper
43	100		
58	31.0	26.6	39.8



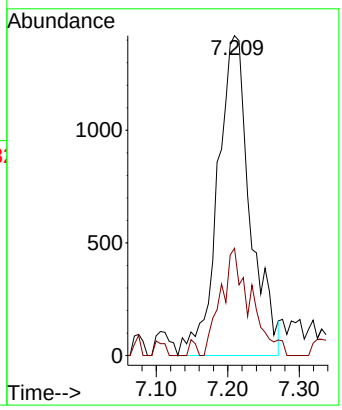


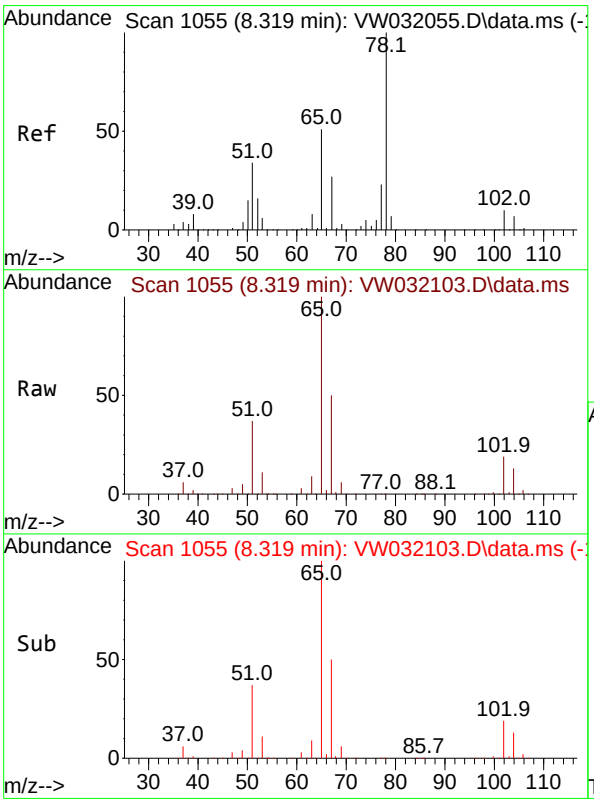
#25
2-Butanone
Concen: 6.444 ug/l
RT: 7.209 min Scan# 8
Delta R.T. 0.018 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Tgt Ion: 43 Resp: 4485

Ion	Ratio	Lower	Upper
43	100		
72	33.5	22.3	33.5#

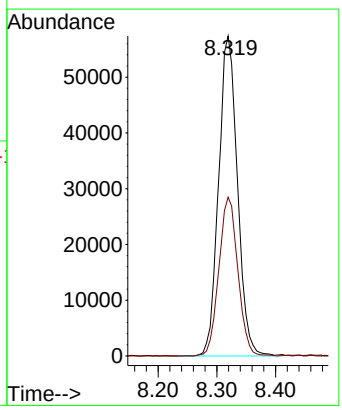


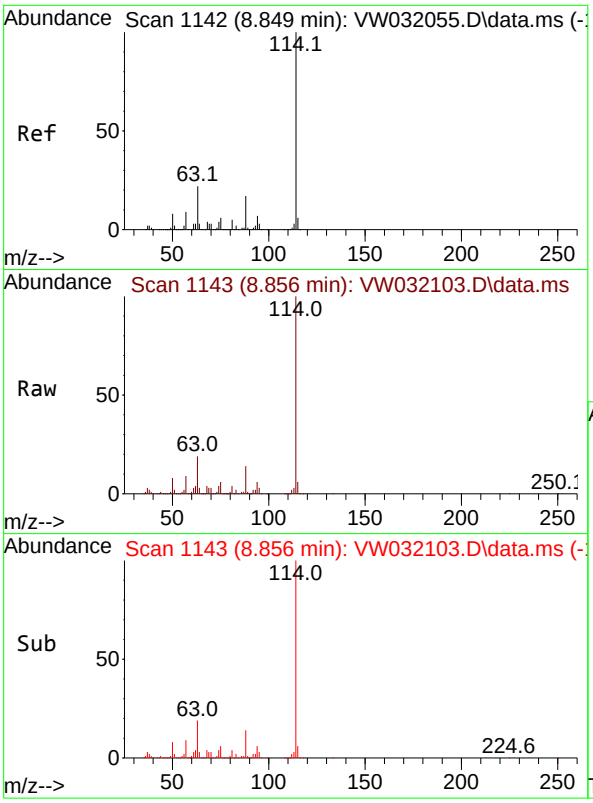


#33
1,2-Dichloroethane-d4
Concen: 60.403 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Tgt Ion: 65 Resp: 127754

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	102.4



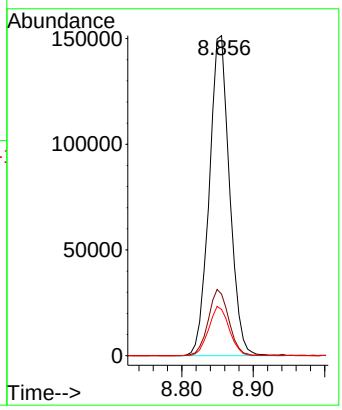


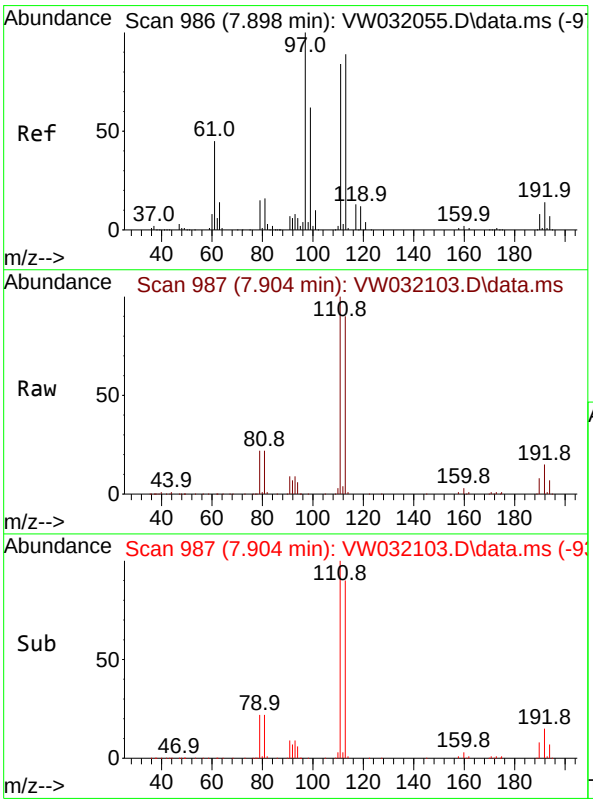
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Tgt Ion:114 Resp: 298387

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	43.0
88	14.5	0.0	33.8

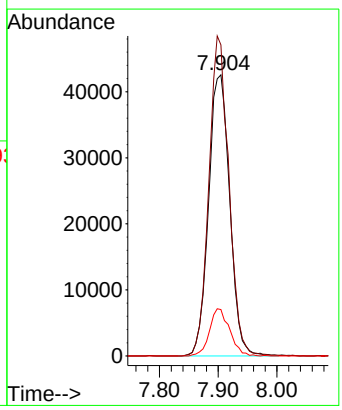


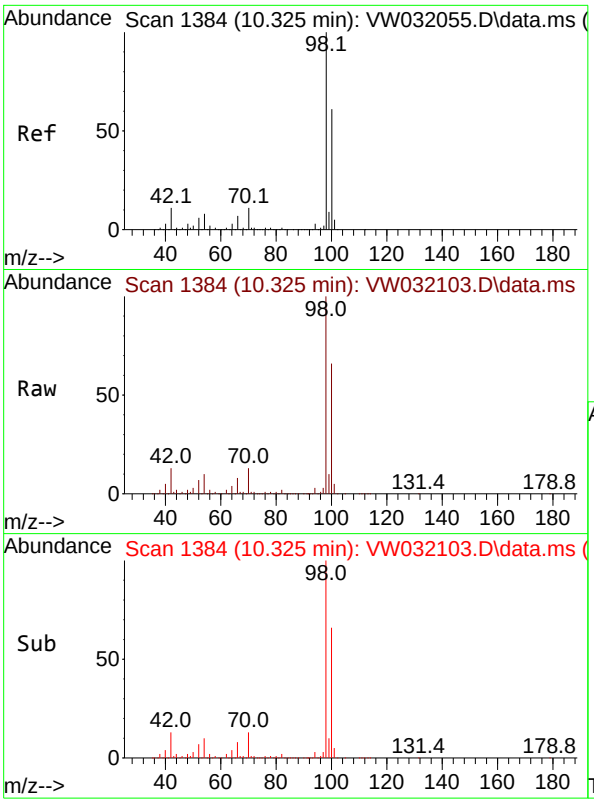


#35
Dibromofluoromethane
Concen: 55.297 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Tgt Ion:113 Resp: 106596

Ion	Ratio	Lower	Upper
113	100		
111	107.3	80.1	120.1
192	16.0	13.1	19.7



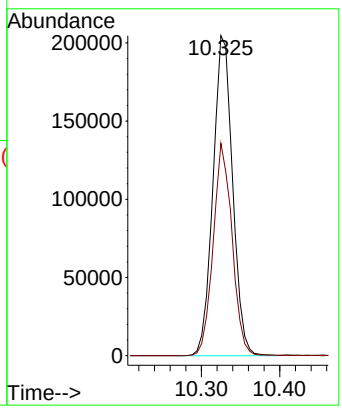


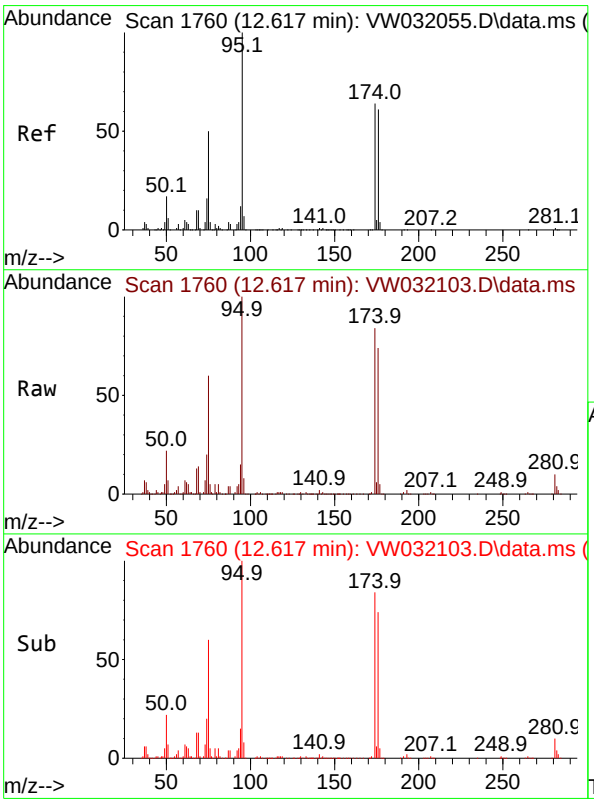
#50
Toluene-d8
Concen: 49.903 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Tgt Ion: 98 Resp: 355808

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.1	76.7

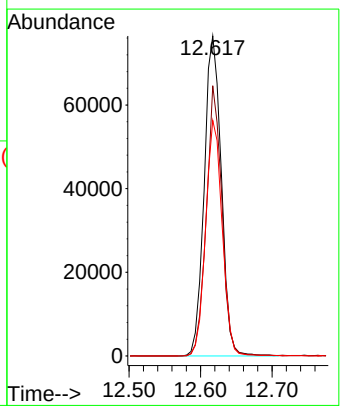


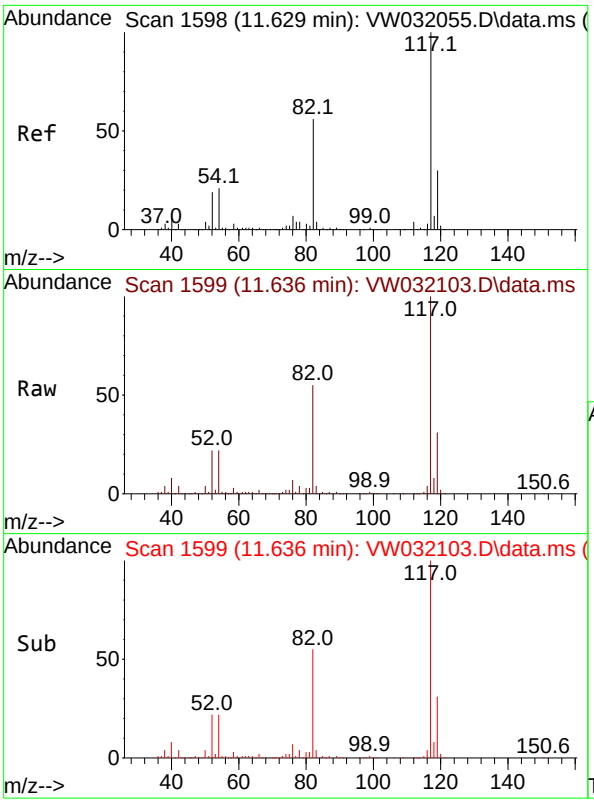


#62
4-Bromofluorobenzene
Concen: 48.269 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Tgt Ion: 95 Resp: 126826

Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	129.0
176	71.9	0.0	124.6



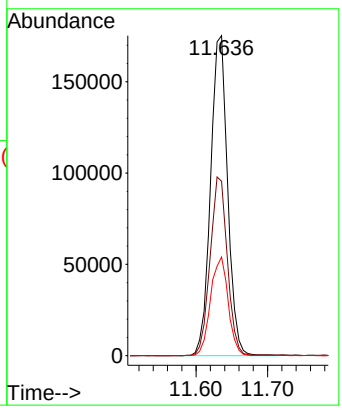


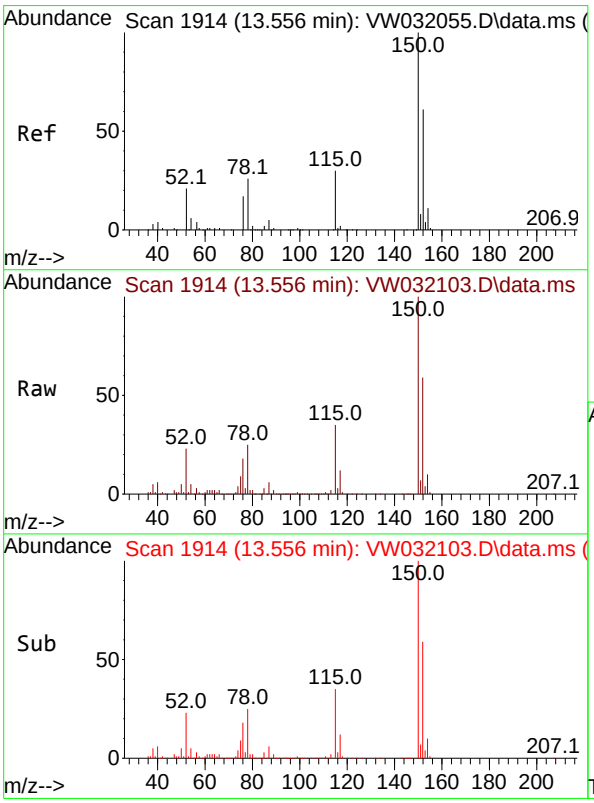
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.636 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Tgt Ion:117 Resp: 290020

Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.0	67.4
119	30.8	24.2	36.4

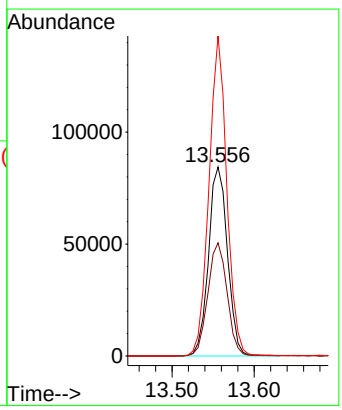




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032103.D
Acq: 14 Aug 2025 18:47

Tgt Ion:152 Resp: 135214

Ion	Ratio	Lower	Upper
152	100		
115	61.1	32.6	97.8
150	159.3	0.0	359.4



Sample Results: **VW032103.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032103.D
Acq On : 14 Aug 2025 18:47
Operator : SY/MD
Sample : Q2820-20
Misc : 8.76g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032103.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	365	373	379	rBV	18233	51980	5.29%	0.913%
2	4.241	380	386	397	rVB3	21434	62311	6.34%	1.095%
3	4.954	493	503	520	rBV3	10383	45672	4.65%	0.802%
4	7.898	970	986	991	rBV	150840	373853	38.05%	6.568%
5	7.959	991	996	1009	rVB2	207083	487156	49.58%	8.558%
6	8.319	1044	1055	1068	rBV	155883	353244	35.95%	6.206%
7	8.849	1134	1142	1152	rBV	362775	731743	74.47%	12.855%
8	10.325	1374	1384	1394	rBV	566422	982651	100.00%	17.262%
9	11.636	1589	1599	1608	rBV	552491	949876	96.66%	16.687%
10	12.617	1749	1760	1771	rBV2	440149	776654	79.04%	13.644%
11	13.556	1907	1914	1926	rVB	551781	877273	89.28%	15.411%

Sum of corrected areas: 5692413

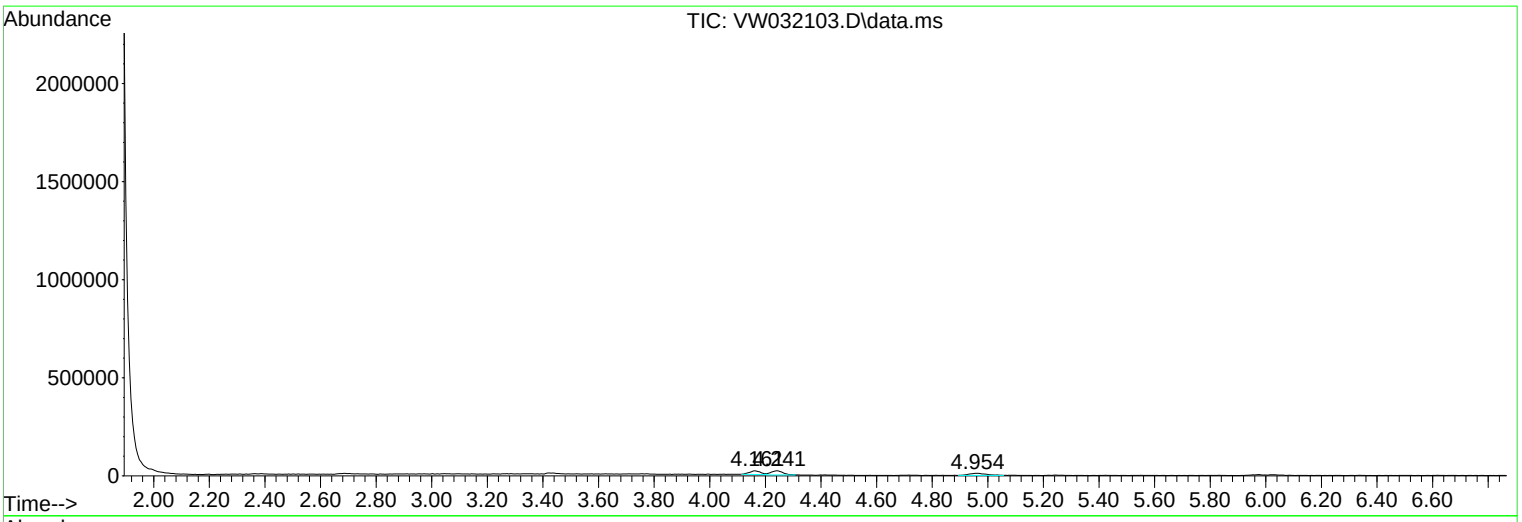
Sample Results: **VW032103.D**

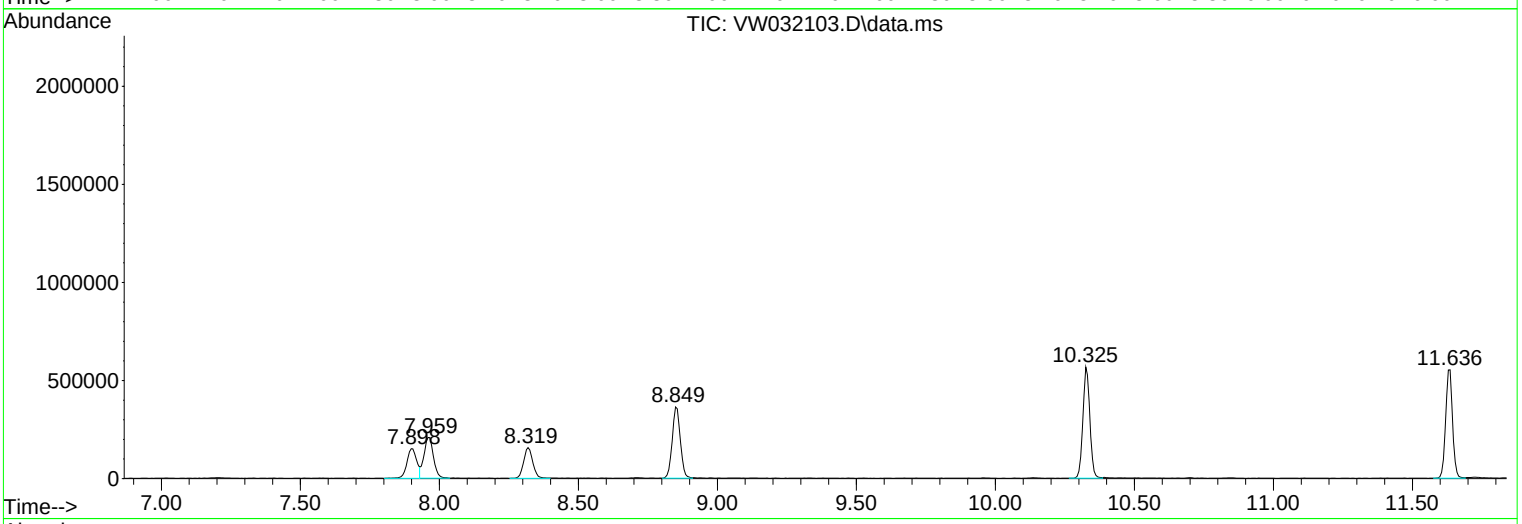
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032103.D
Acq On : 14 Aug 2025 18:47
Operator : SY/MD
Sample : Q2820-20
Misc : 8.76g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

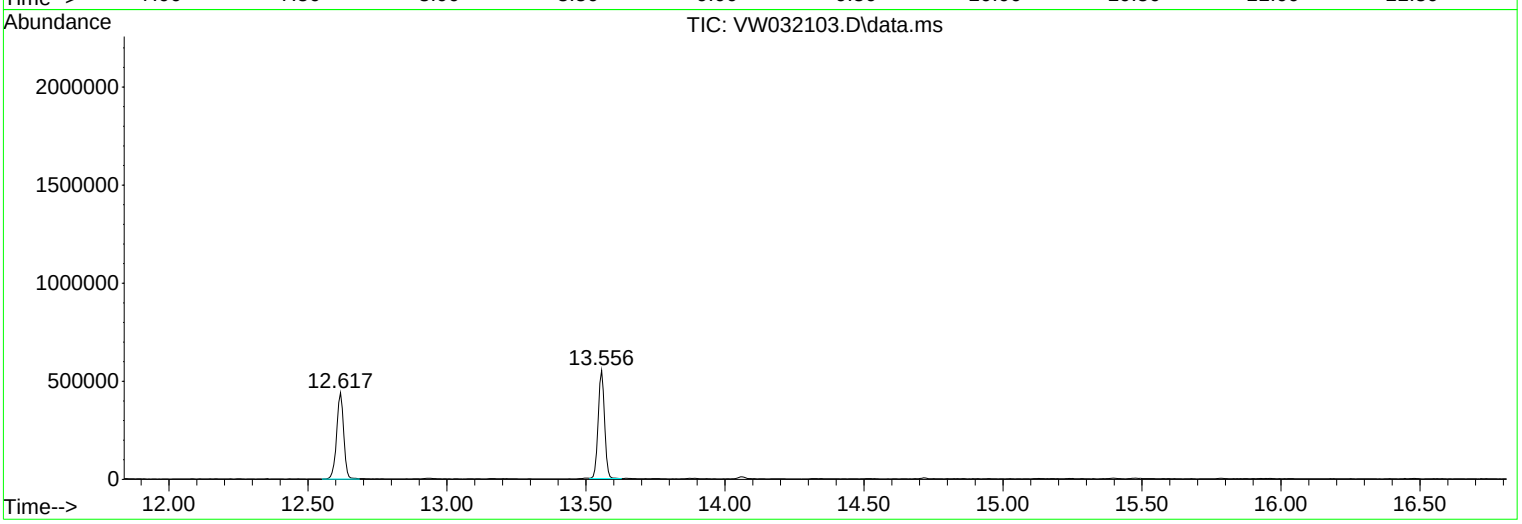
Instrument :
MSVOA_W
ClientSampleId :
88H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032103.D
Acq On : 14 Aug 2025 18:47
Operator : SY/MD
Sample : Q2820-20
Misc : 8.76g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

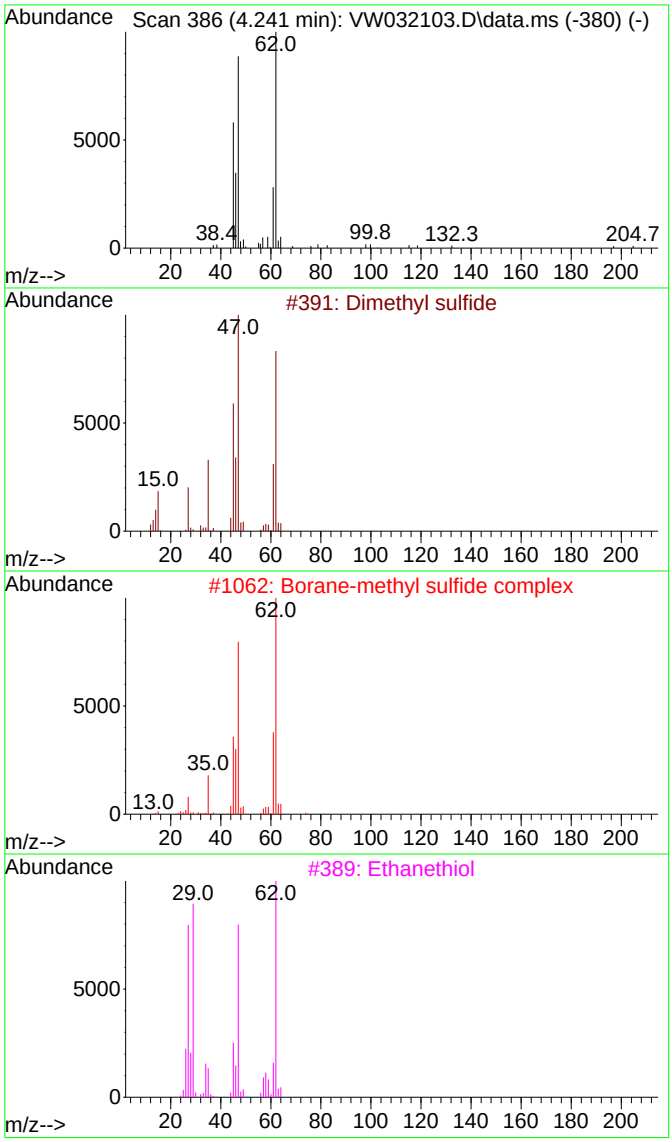
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

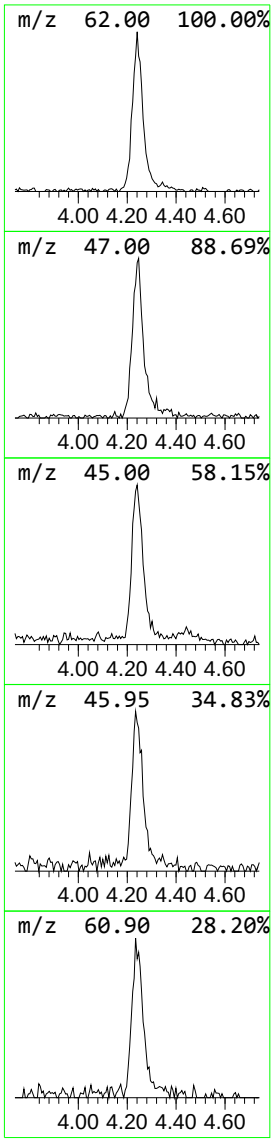
****

Peak Number 1 Dimethyl sulfide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.241	6.40 ug/l	62311	Pentafluorobenzene	7.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl sulfide	62	C2H6S	000075-18-3	91
2	Borane-methyl sulfide complex	76	C2H9BS	013292-87-0	90
3	Ethanethiol	62	C2H6S	000075-08-1	78
4	3-(Ehtylthio)propanal	118	C5H10OS	005454-45-5	64
5	Acetic acid, 2,2'-thiobis-	150	C4H6O4S	000123-93-3	10





Sample Results: **VW032103.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032103.D
Acq On : 14 Aug 2025 18:47
Operator : SY/MD
Sample : Q2820-20
Misc : 8.76g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
88H-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dimethyl sulfide	4.241	6.4	ug/l	62311	1	7.965	487156	50.0

Raw Data: **VY023118.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-21	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	7.59 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023118.D	1	08/15/25 11:54	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.90	U	0.81	2.90	3.60	ug/Kg
74-87-3	Chloromethane	1.80	U	0.81	1.80	3.60	ug/Kg
75-01-4	Vinyl Chloride	1.80	U	0.56	1.80	3.60	ug/Kg
74-83-9	Bromomethane	2.90	U	0.76	2.90	3.60	ug/Kg
75-00-3	Chloroethane	1.80	U	0.90	1.80	3.60	ug/Kg
75-69-4	Trichlorofluoromethane	2.90	U	0.86	2.90	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	0.76	1.80	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	0.71	1.80	3.60	ug/Kg
67-64-1	Acetone	14.3	U	3.40	14.3	17.9	ug/Kg
75-15-0	Carbon Disulfide	2.90	U	0.76	2.90	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	0.52	1.80	3.60	ug/Kg
79-20-9	Methyl Acetate	2.90	U	1.10	2.90	3.60	ug/Kg
75-09-2	Methylene Chloride	5.70	U	2.50	5.70	7.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.80	U	0.61	1.80	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	1.80	U	0.57	1.80	3.60	ug/Kg
110-82-7	Cyclohexane	1.80	U	0.56	1.80	3.60	ug/Kg
78-93-3	2-Butanone	14.3	U	4.70	14.3	17.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.80	U	0.69	1.80	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.80	U	0.54	1.80	3.60	ug/Kg
74-97-5	Bromochloromethane	2.90	U	0.82	2.90	3.60	ug/Kg
67-66-3	Chloroform	2.90	U	0.60	2.90	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	0.66	1.80	3.60	ug/Kg
108-87-2	Methylcyclohexane	1.80	U	0.65	1.80	3.60	ug/Kg
71-43-2	Benzene	1.80	U	0.56	1.80	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	1.80	U	0.56	1.80	3.60	ug/Kg
79-01-6	Trichloroethene	1.80	U	0.58	1.80	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	0.65	1.80	3.60	ug/Kg
75-27-4	Bromodichloromethane	1.80	U	0.56	1.80	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	8.90	U	2.60	8.90	17.9	ug/Kg
108-88-3	Toluene	1.80	U	0.56	1.80	3.60	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-21	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	7.59 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023118.D	1	08/15/25 11:54	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.80	U	0.46	1.80	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.80	U	0.44	1.80	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.80	U	0.66	1.80	3.60	ug/Kg
591-78-6	2-Hexanone	8.90	U	2.60	8.90	17.9	ug/Kg
124-48-1	Dibromochloromethane	1.80	U	0.62	1.80	3.60	ug/Kg
106-93-4	1,2-Dibromoethane	1.80	U	0.63	1.80	3.60	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	0.75	1.80	3.60	ug/Kg
108-90-7	Chlorobenzene	1.80	U	0.65	1.80	3.60	ug/Kg
100-41-4	Ethyl Benzene	1.80	U	0.48	1.80	3.60	ug/Kg
179601-23-1	m/p-Xylenes	3.60	U	0.89	3.60	7.10	ug/Kg
95-47-6	o-Xylene	1.80	U	0.59	1.80	3.60	ug/Kg
100-42-5	Styrene	1.80	U	0.51	1.80	3.60	ug/Kg
75-25-2	Bromoform	1.80	U	0.61	1.80	3.60	ug/Kg
98-82-8	Isopropylbenzene	1.80	U	0.56	1.80	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.80	U	0.86	1.80	3.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.20	1.80	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.10	1.80	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.00	1.80	3.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.90	U	1.30	2.90	3.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.10	2.90	3.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.30	2.90	3.60	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.1		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	51.8		85 - 116		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	571000	7.707				
540-36-3	1,4-Difluorobenzene	1080000	8.61				
3114-55-4	Chlorobenzene-d5	964000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	388000	13.34				

Raw Data: **VY023118.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-21	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	7.59 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023118.D	1	08/15/25 11:54	VY081525

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023118.D
Acq On : 15 Aug 2025 11:54
Operator : SY/MD
Sample : Q2820-21
Misc : 7.59g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Quant Time: Aug 18 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	570930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1075634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	964069	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	387628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	310901	57.137	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.280%			
35) Dibromofluoromethane	7.634	113	339136	52.692	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.380%			
50) Toluene-d8	10.103	98	1302624	51.807	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.620%			
62) 4-Bromofluorobenzene	12.402	95	391385	48.402	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.800%			
Target Compounds						Qvalue

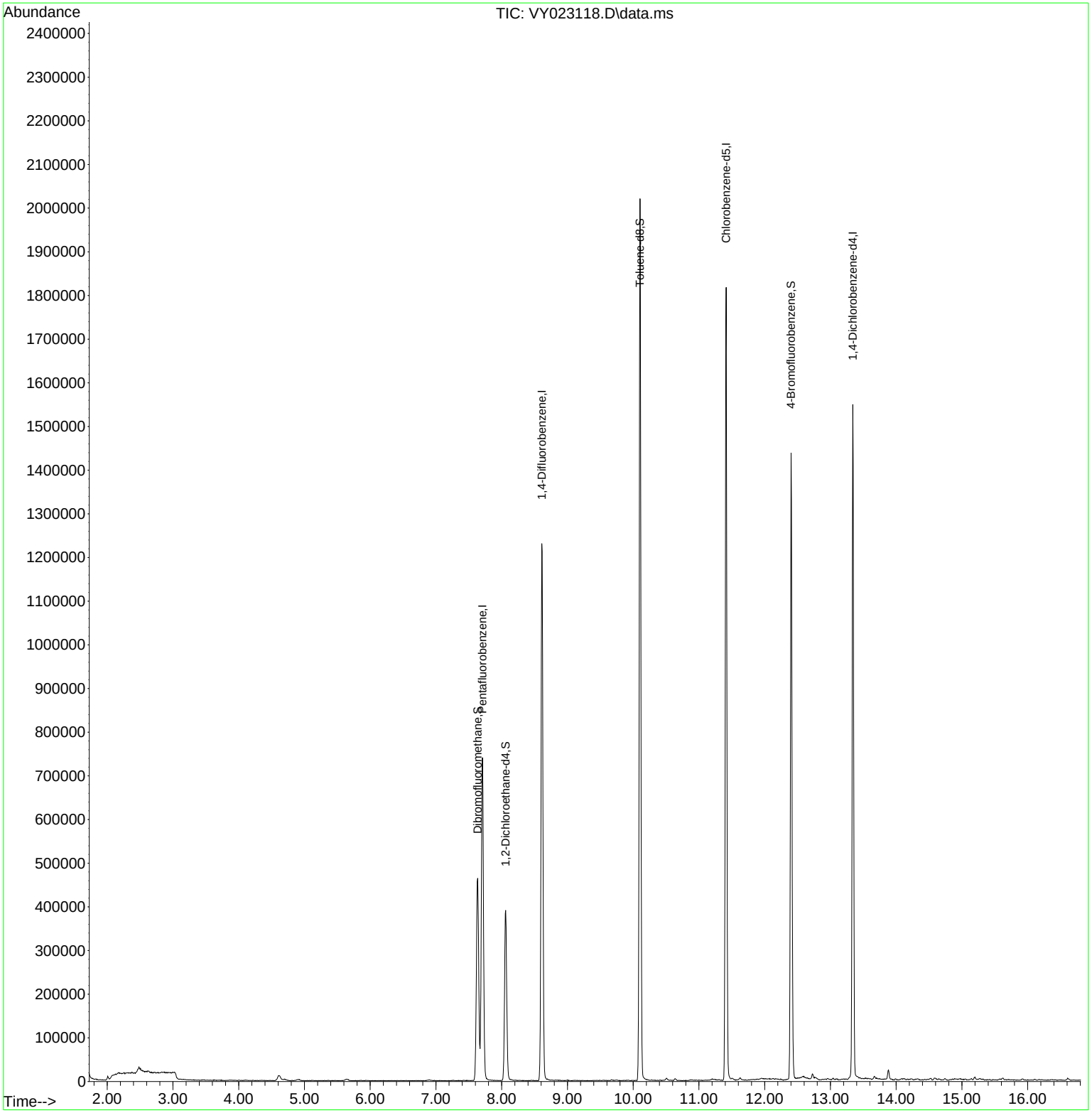
(#) = qualifier out of range (m) = manual integration (+) = signals summed

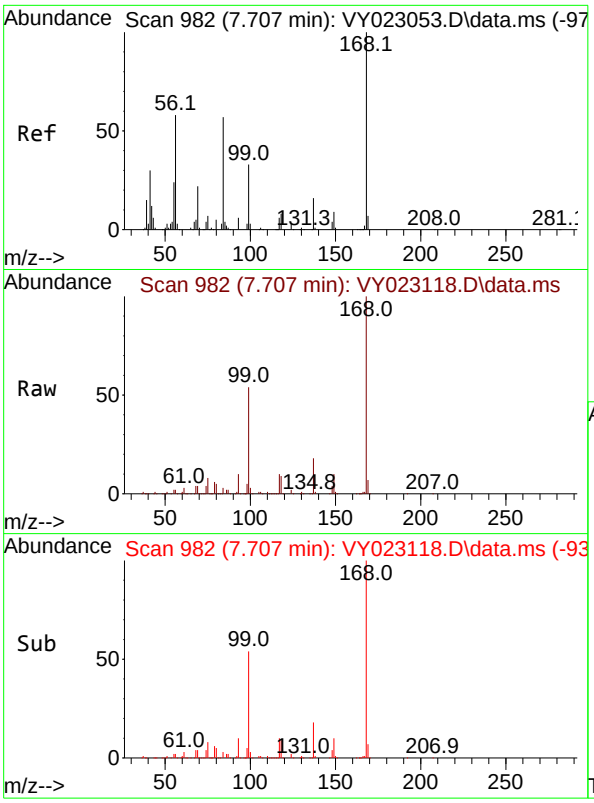
Sample Results: **VY023118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023118.D
Acq On : 15 Aug 2025 11:54
Operator : SY/MD
Sample : Q2820-21
Misc : 7.59g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Quant Time: Aug 18 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



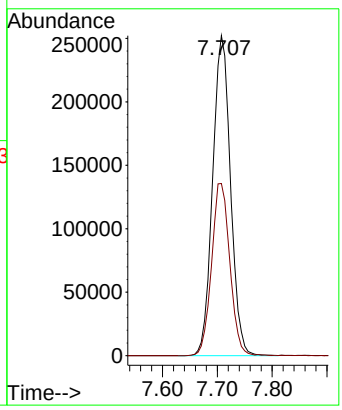


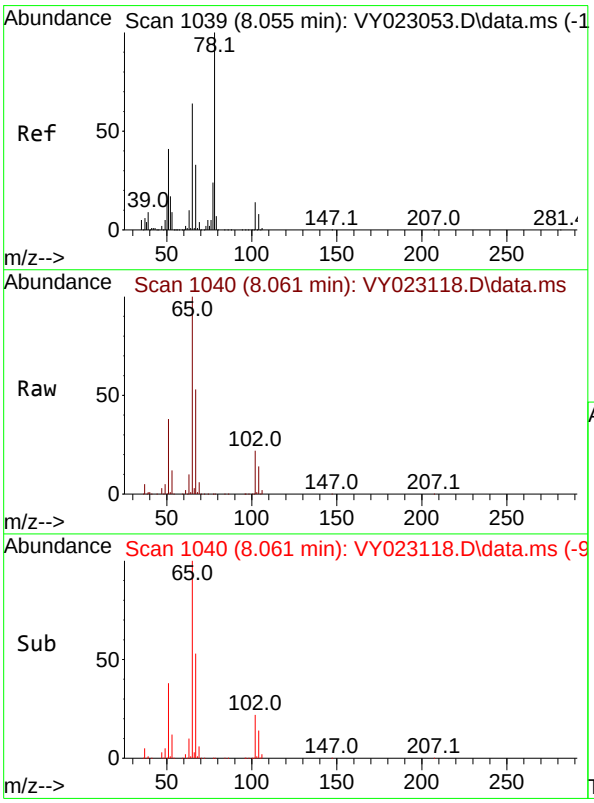
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Tgt Ion:168 Resp: 570930

Ion	Ratio	Lower	Upper
168	100		
99	53.8	42.8	64.2

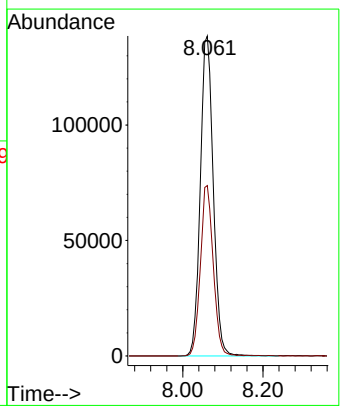


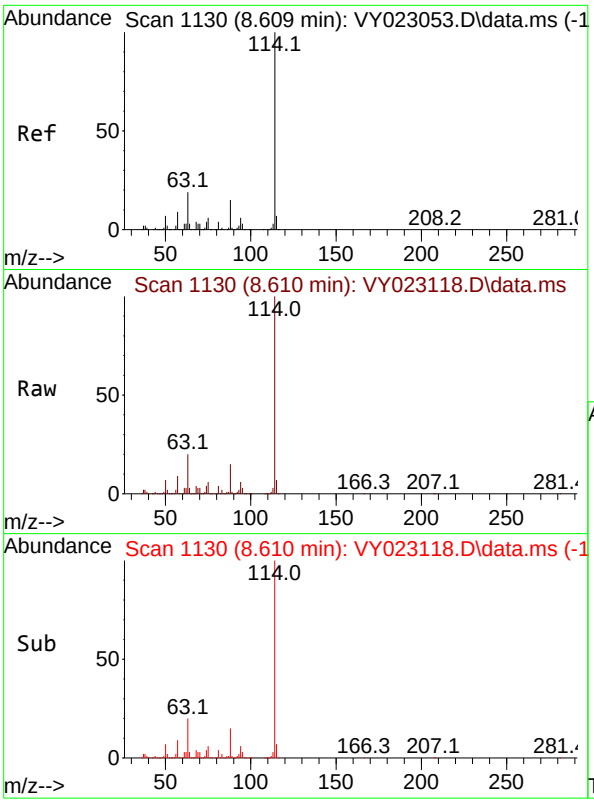


#33
1,2-Dichloroethane-d4
Concen: 57.137 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Tgt Ion: 65 Resp: 310901

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.8



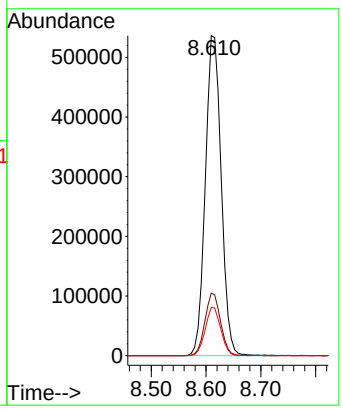


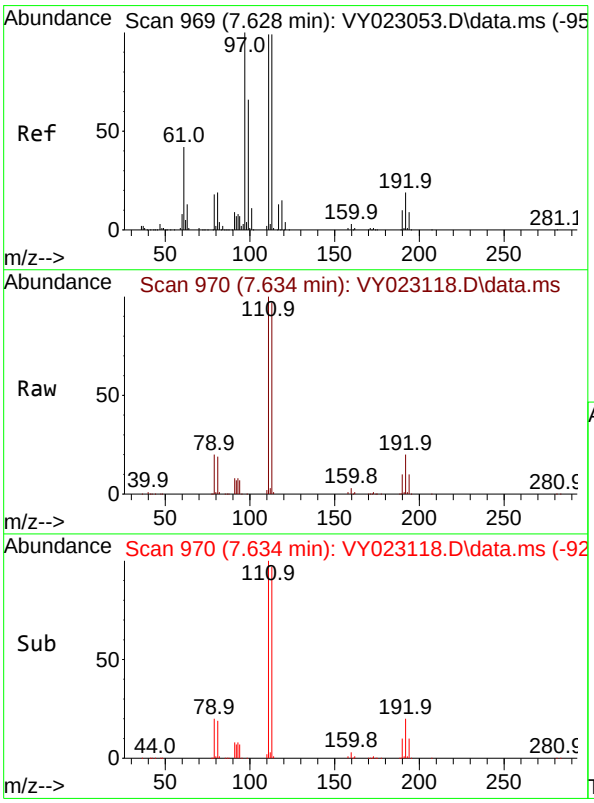
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Tgt Ion:114 Resp: 1075634

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.4
88	15.1	0.0	30.0

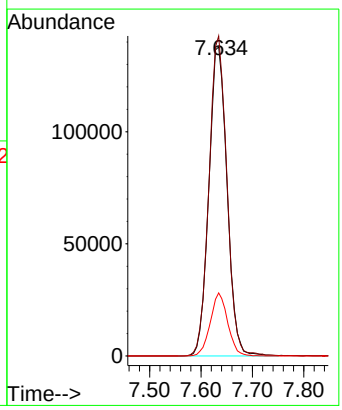


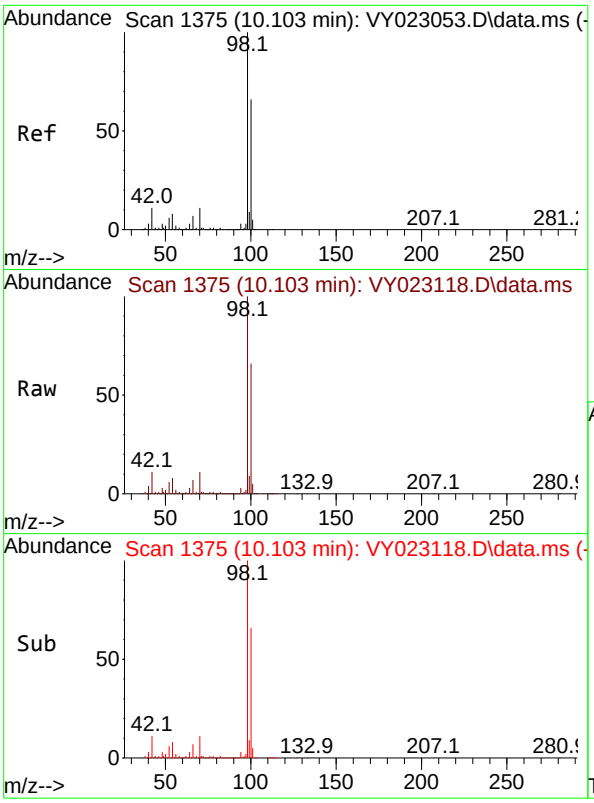


#35
Dibromofluoromethane
Concen: 52.692 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Tgt Ion:113 Resp: 339136

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.1	121.7
192	19.5	16.2	24.4



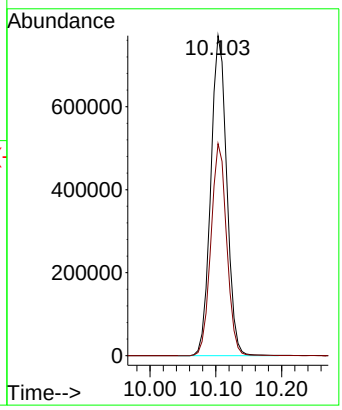


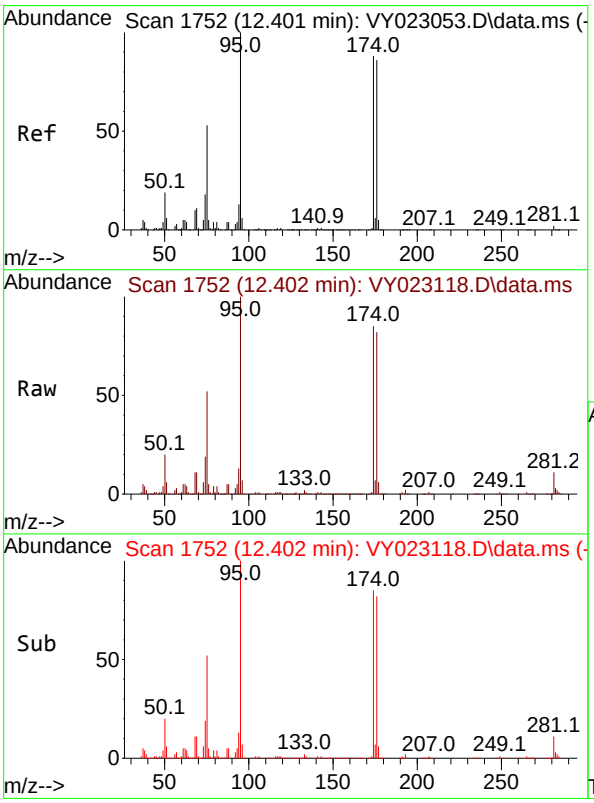
#50
Toluene-d8
Concen: 51.807 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Tgt Ion: 98 Resp: 1302624

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5

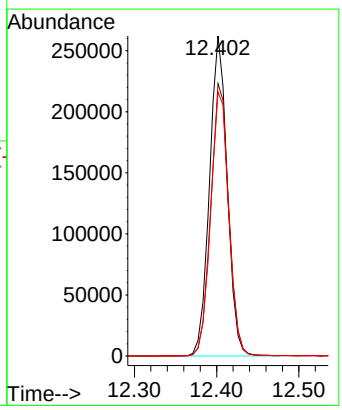


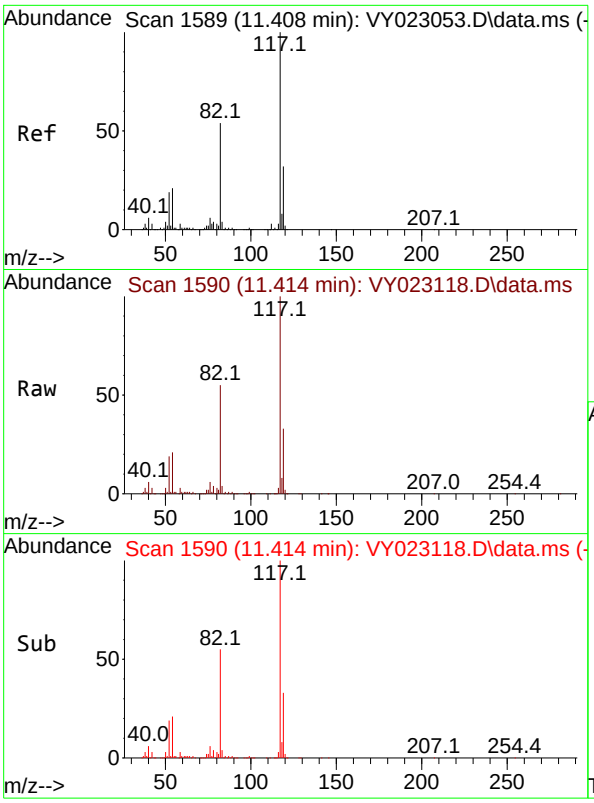


#62
4-Bromofluorobenzene
Concen: 48.402 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Tgt Ion: 95 Resp: 391385

Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	171.6
176	84.6	0.0	167.6



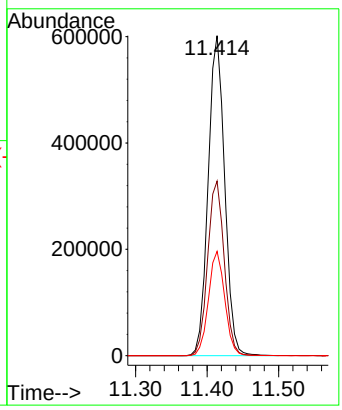


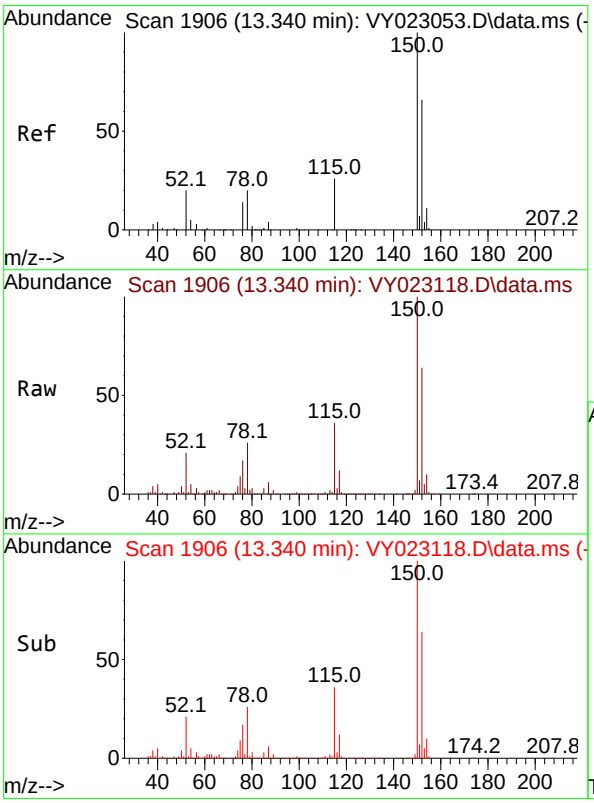
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Tgt Ion:117 Resp: 964069

Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	32.6	25.6	38.4

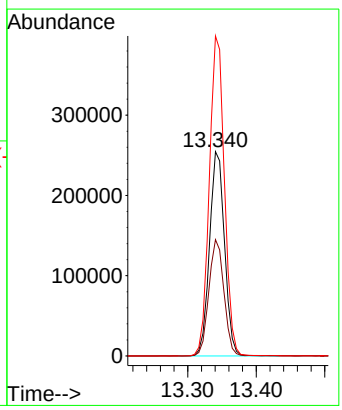




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023118.D
Acq: 15 Aug 2025 11:54

Tgt Ion:152 Resp: 387628

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.2	84.6
150	157.4	0.0	348.0



Sample Results: **VY023118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023118.D
Acq On : 15 Aug 2025 11:54
Operator : SY/MD
Sample : Q2820-21
Misc : 7.59g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023118.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.604	461	473	483	rBV3	11704	42913	1.26%	0.248%
2	7.634	960	970	976	rBV	463368	1136083	33.24%	6.556%
3	7.707	976	982	999	rVB	738679	1663643	48.67%	9.600%
4	8.061	1030	1040	1059	rVB2	389626	882690	25.82%	5.094%
5	8.610	1120	1130	1142	rBV	1230136	2451025	71.71%	14.144%
6	10.103	1367	1375	1391	rBV	2019536	3418110	100.00%	19.725%
7	11.414	1581	1590	1602	rBV	1815871	2943588	86.12%	16.987%
8	12.402	1745	1752	1763	rBV2	1433840	2367215	69.26%	13.661%
9	13.340	1892	1906	1922	rBV	1546008	2388027	69.86%	13.781%
10	13.883	1989	1995	2001	rVB2	21013	35466	1.04%	0.205%

Sum of corrected areas: 17328760

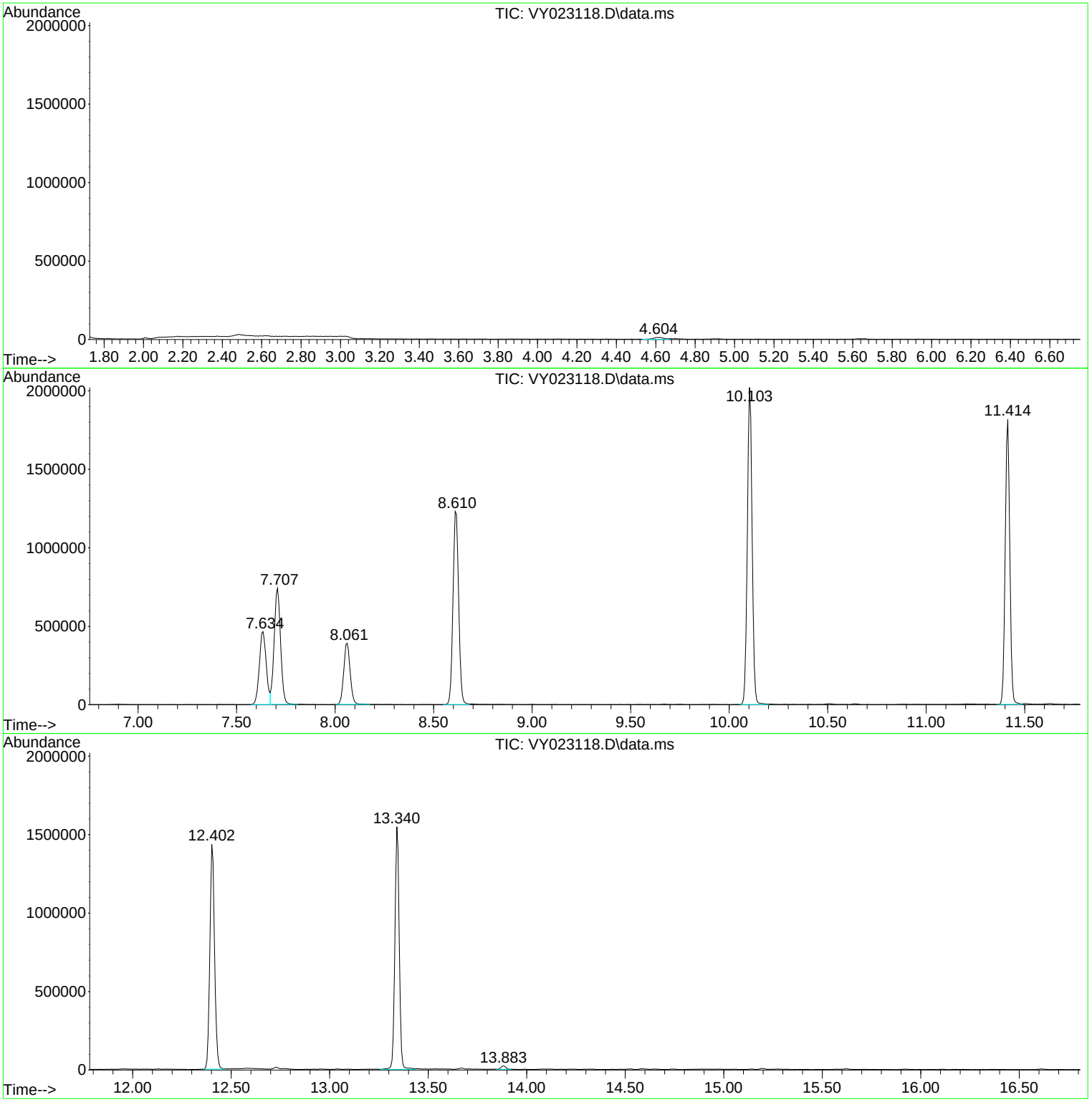
Sample Results: **VY023118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023118.D
Acq On : 15 Aug 2025 11:54
Operator : SY/MD
Sample : Q2820-21
Misc : 7.59g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023118.D
Acq On : 15 Aug 2025 11:54
Operator : SY/MD
Sample : Q2820-21
Misc : 7.59g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023118.D
Acq On : 15 Aug 2025 11:54
Operator : SY/MD
Sample : Q2820-21
Misc : 7.59g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY023119.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-22	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	52.9
Sample Wt/Vol:	8.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023119.D	1	08/15/25 12:18	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.70	U	1.30	4.70	5.80	ug/Kg
74-87-3	Chloromethane	2.90	U	1.30	2.90	5.80	ug/Kg
75-01-4	Vinyl Chloride	2.90	U	0.92	2.90	5.80	ug/Kg
74-83-9	Bromomethane	4.70	U	1.30	4.70	5.80	ug/Kg
75-00-3	Chloroethane	2.90	U	1.50	2.90	5.80	ug/Kg
75-69-4	Trichlorofluoromethane	4.70	U	1.40	4.70	5.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.90	U	1.20	2.90	5.80	ug/Kg
75-35-4	1,1-Dichloroethene	2.90	U	1.20	2.90	5.80	ug/Kg
67-64-1	Acetone	18.1	J	5.50	23.4	29.2	ug/Kg
75-15-0	Carbon Disulfide	4.70	J	1.20	4.70	5.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.90	U	0.85	2.90	5.80	ug/Kg
79-20-9	Methyl Acetate	4.70	U	1.80	4.70	5.80	ug/Kg
75-09-2	Methylene Chloride	9.40	U	4.10	9.40	11.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.90	U	1.00	2.90	5.80	ug/Kg
75-34-3	1,1-Dichloroethane	2.90	U	0.94	2.90	5.80	ug/Kg
110-82-7	Cyclohexane	2.90	U	0.92	2.90	5.80	ug/Kg
78-93-3	2-Butanone	23.4	U	7.70	23.4	29.2	ug/Kg
56-23-5	Carbon Tetrachloride	2.90	U	1.10	2.90	5.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.90	U	0.88	2.90	5.80	ug/Kg
74-97-5	Bromochloromethane	4.70	U	1.30	4.70	5.80	ug/Kg
67-66-3	Chloroform	4.70	U	0.98	4.70	5.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.90	U	1.10	2.90	5.80	ug/Kg
108-87-2	Methylcyclohexane	2.90	U	1.10	2.90	5.80	ug/Kg
71-43-2	Benzene	2.90	U	0.92	2.90	5.80	ug/Kg
107-06-2	1,2-Dichloroethane	2.90	U	0.92	2.90	5.80	ug/Kg
79-01-6	Trichloroethene	2.90	U	0.95	2.90	5.80	ug/Kg
78-87-5	1,2-Dichloropropane	2.90	U	1.10	2.90	5.80	ug/Kg
75-27-4	Bromodichloromethane	2.90	U	0.91	2.90	5.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	14.6	U	4.20	14.6	29.2	ug/Kg
108-88-3	Toluene	2.90	U	0.91	2.90	5.80	ug/Kg

Raw Data: **VY023119.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-22	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	52.9
Sample Wt/Vol:	8.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023119.D	1	08/15/25 12:18	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.90	U	0.76	2.90	5.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.90	U	0.73	2.90	5.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.90	U	1.10	2.90	5.80	ug/Kg
591-78-6	2-Hexanone	14.6	U	4.30	14.6	29.2	ug/Kg
124-48-1	Dibromochloromethane	2.90	U	1.00	2.90	5.80	ug/Kg
106-93-4	1,2-Dibromoethane	2.90	U	1.00	2.90	5.80	ug/Kg
127-18-4	Tetrachloroethene	2.90	U	1.20	2.90	5.80	ug/Kg
108-90-7	Chlorobenzene	2.90	U	1.10	2.90	5.80	ug/Kg
100-41-4	Ethyl Benzene	2.90	U	0.78	2.90	5.80	ug/Kg
179601-23-1	m/p-Xylenes	5.80	U	1.50	5.80	11.7	ug/Kg
95-47-6	o-Xylene	2.90	U	0.96	2.90	5.80	ug/Kg
100-42-5	Styrene	2.90	U	0.83	2.90	5.80	ug/Kg
75-25-2	Bromoform	2.90	U	1.00	2.90	5.80	ug/Kg
98-82-8	Isopropylbenzene	2.90	U	0.91	2.90	5.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.90	U	1.40	2.90	5.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.90	U	2.00	2.90	5.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.90	U	1.80	2.90	5.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.90	U	1.70	2.90	5.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.70	U	2.20	4.70	5.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.70	U	3.50	4.70	5.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.70	U	3.70	4.70	5.80	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	60.8		71 - 136		122%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		78 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	51.5		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.6		79 - 119		85%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	565000	7.707				
540-36-3	1,4-Difluorobenzene	1080000	8.616				
3114-55-4	Chlorobenzene-d5	920000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	312000	13.34				

Raw Data: **VY023119.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-22	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	52.9
Sample Wt/Vol:	8.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023119.D	1	08/15/25 12:18	VY081525

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023119.D
Acq On : 15 Aug 2025 12:18
Operator : SY/MD
Sample : Q2820-22
Misc : 8.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Quant Time: Aug 18 02:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	565430	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1082388	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	919769	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	311657	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	327727	60.815	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.620%			
35) Dibromofluoromethane	7.634	113	341964	52.799	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.600%			
50) Toluene-d8	10.103	98	1304177	51.545	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.100%			
62) 4-Bromofluorobenzene	12.402	95	346717	42.610	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.220%			
Target Compounds						Qvalue
16) Acetone	3.873	43	18052	15.462	ug/l	96
17) Carbon Disulfide	4.104	76	70916	3.992	ug/l	96

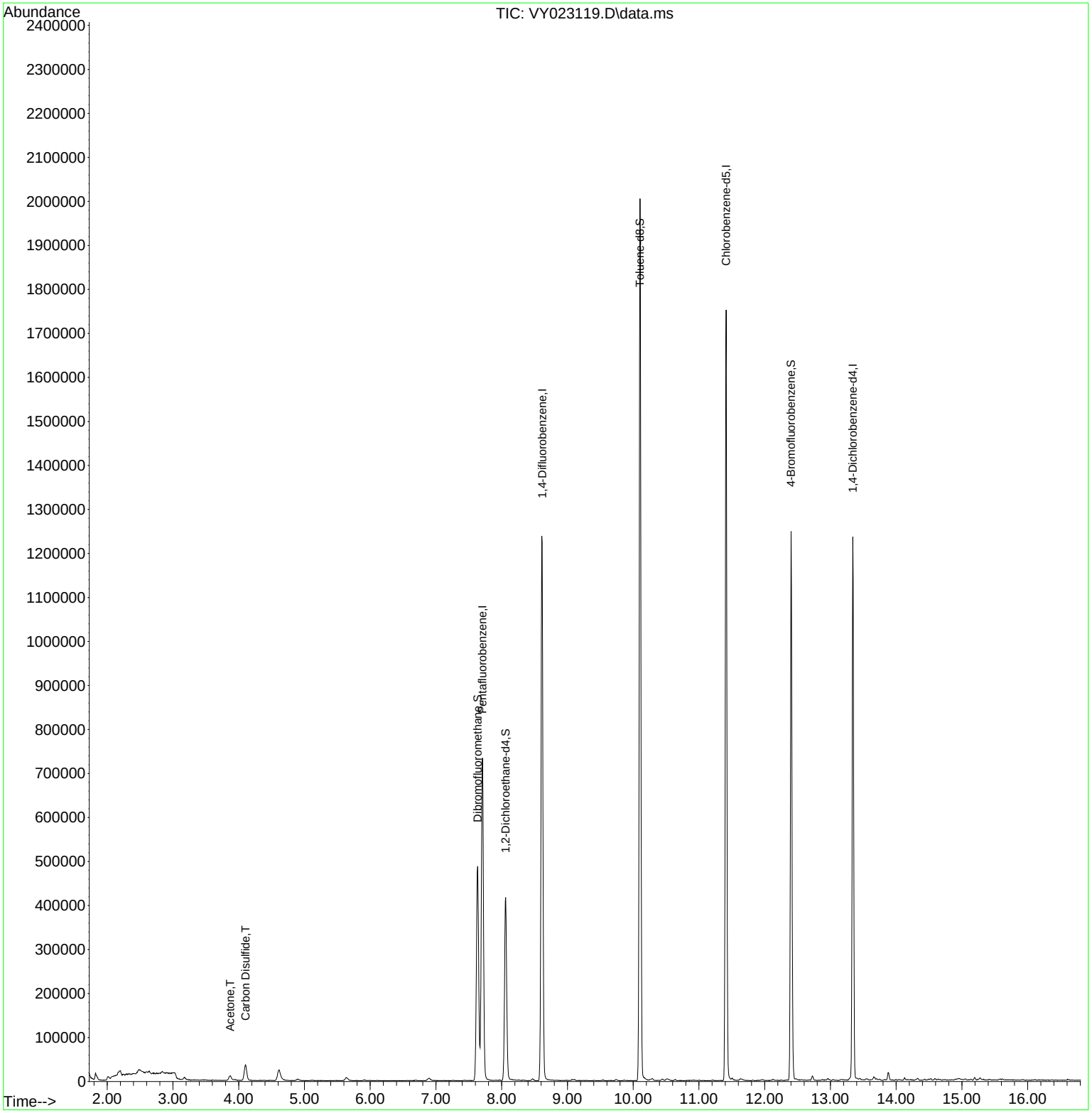
(#) = qualifier out of range (m) = manual integration (+) = signals summed

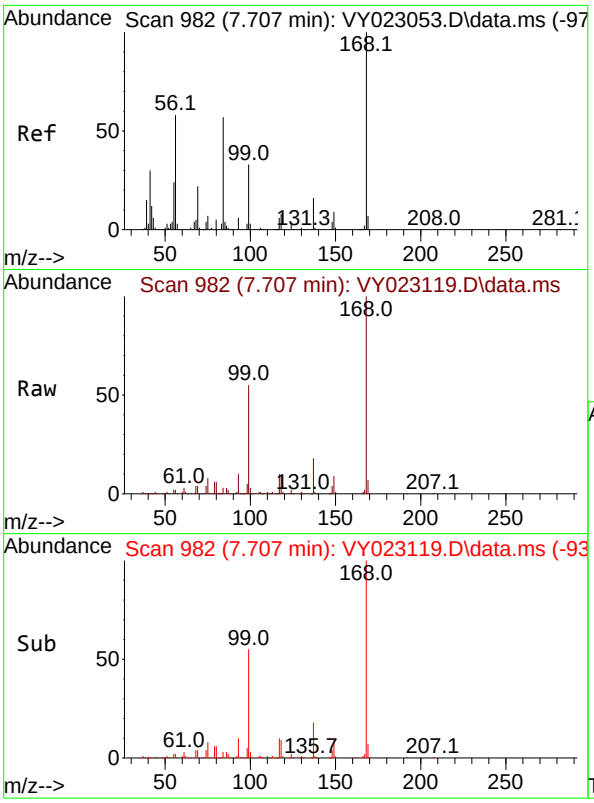
Sample Results: **VY023119.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023119.D
Acq On : 15 Aug 2025 12:18
Operator : SY/MD
Sample : Q2820-22
Misc : 8.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Quant Time: Aug 18 02:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



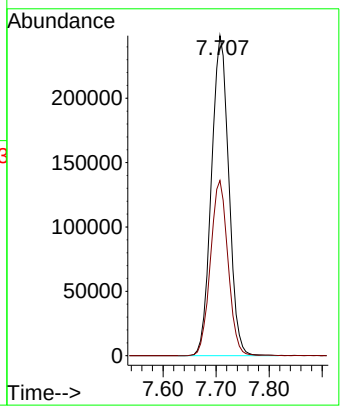


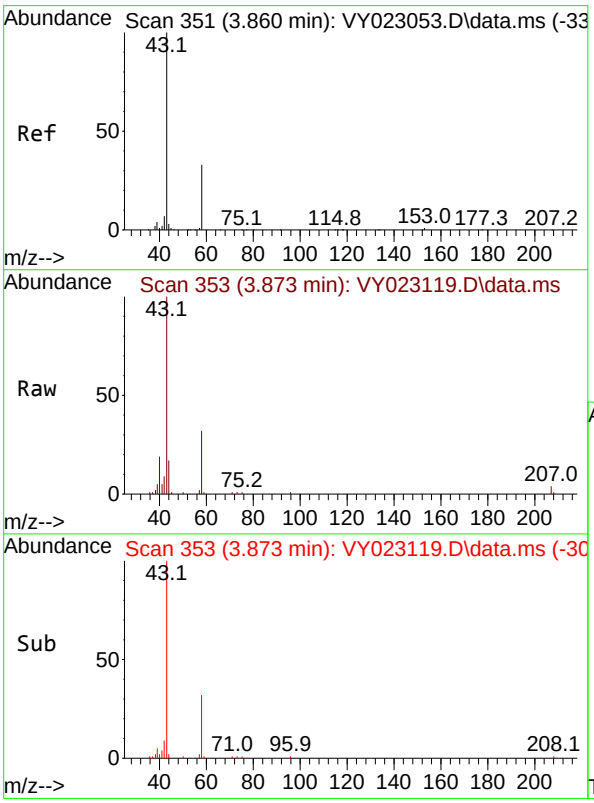
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Tgt Ion:168 Resp: 565430

Ion	Ratio	Lower	Upper
168	100		
99	54.7	42.8	64.2

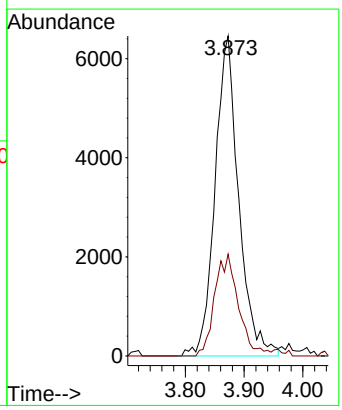


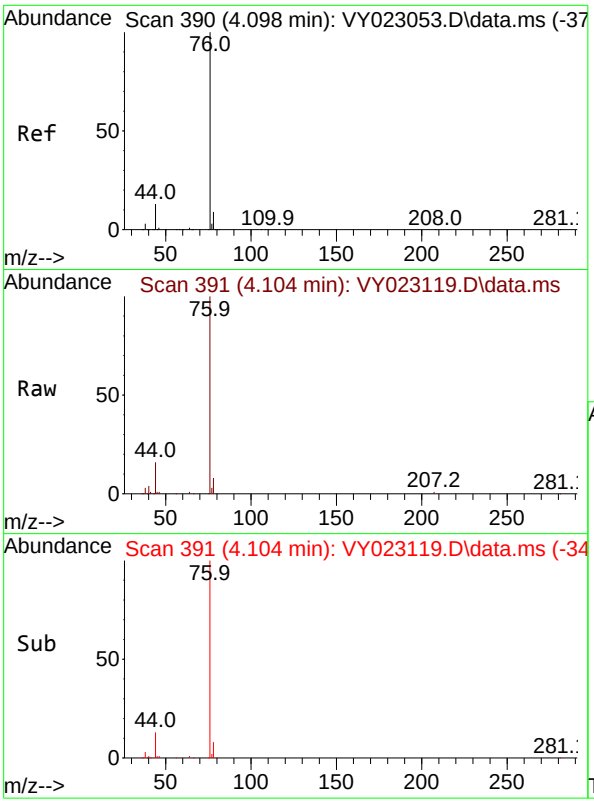


#16
Acetone
Concen: 15.462 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Tgt Ion: 43 Resp: 18052

Ion	Ratio	Lower	Upper
43	100		
58	31.8	27.1	40.7



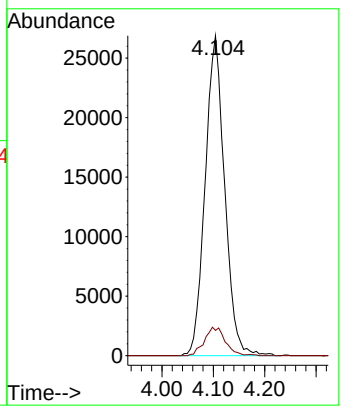


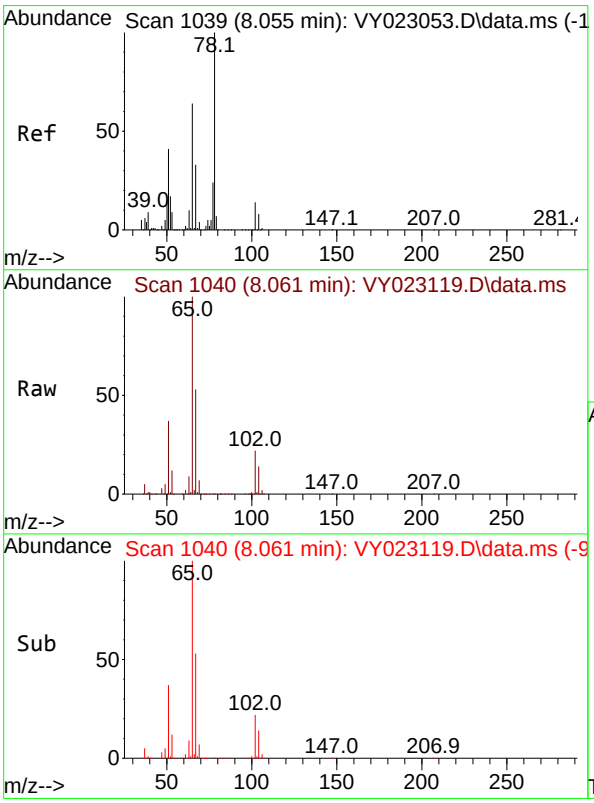
#17
Carbon Disulfide
Concen: 3.992 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Tgt Ion: 76 Resp: 70916

Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.4	11.2

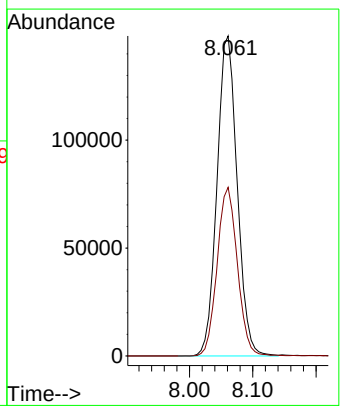


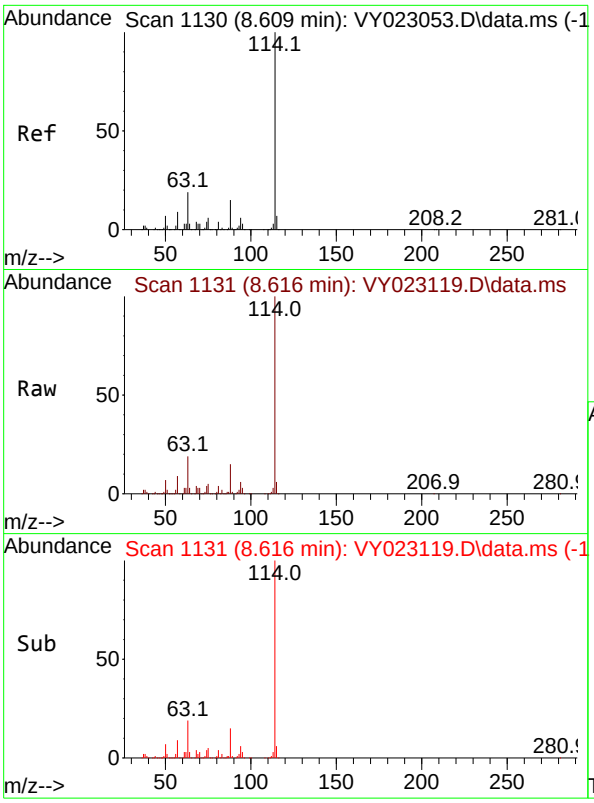


#33
1,2-Dichloroethane-d4
Concen: 60.815 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Tgt Ion: 65 Resp: 327727

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8



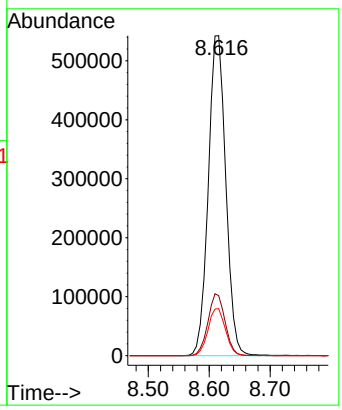


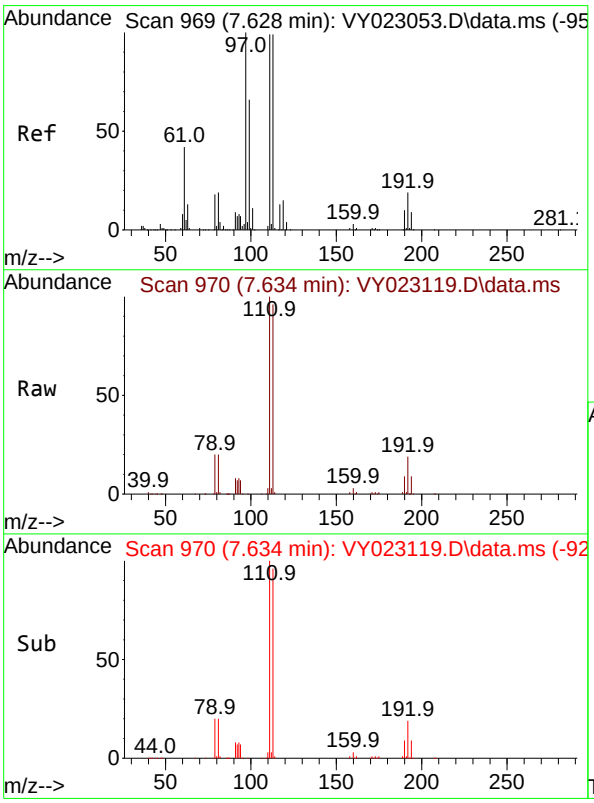
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Tgt Ion:114 Resp: 1082388

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	14.7	0.0	30.0

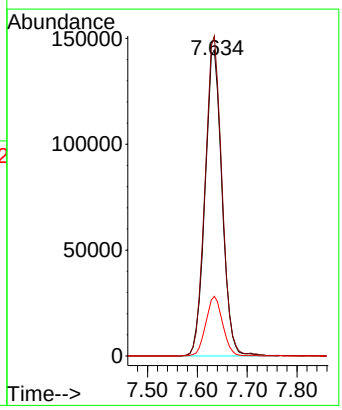


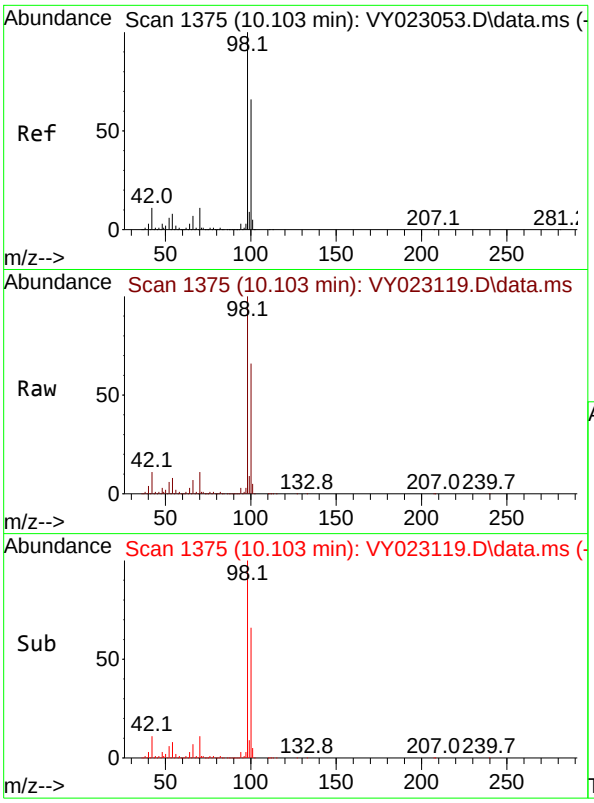


#35
Dibromofluoromethane
Concen: 52.799 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Tgt Ion:113 Resp: 341964

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.1	121.7
192	19.3	16.2	24.4



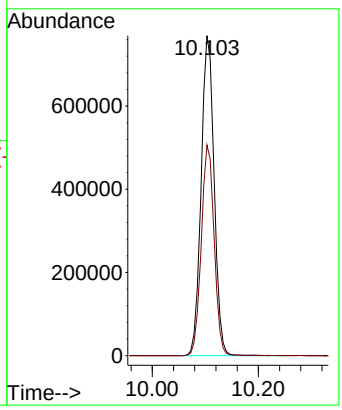


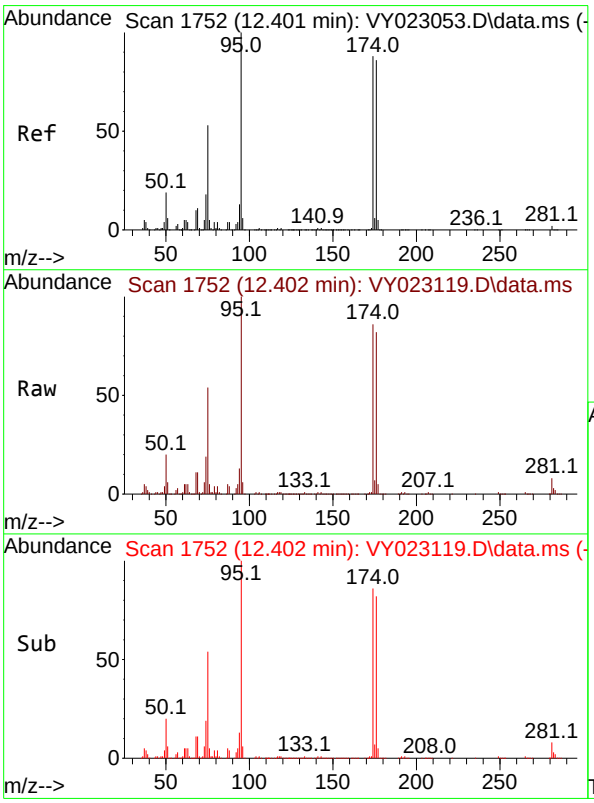
#50
Toluene-d8
Concen: 51.545 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Tgt Ion: 98 Resp: 1304177

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.3	78.5

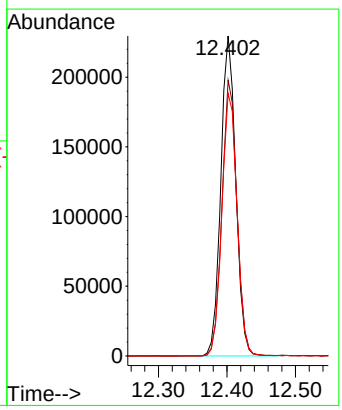


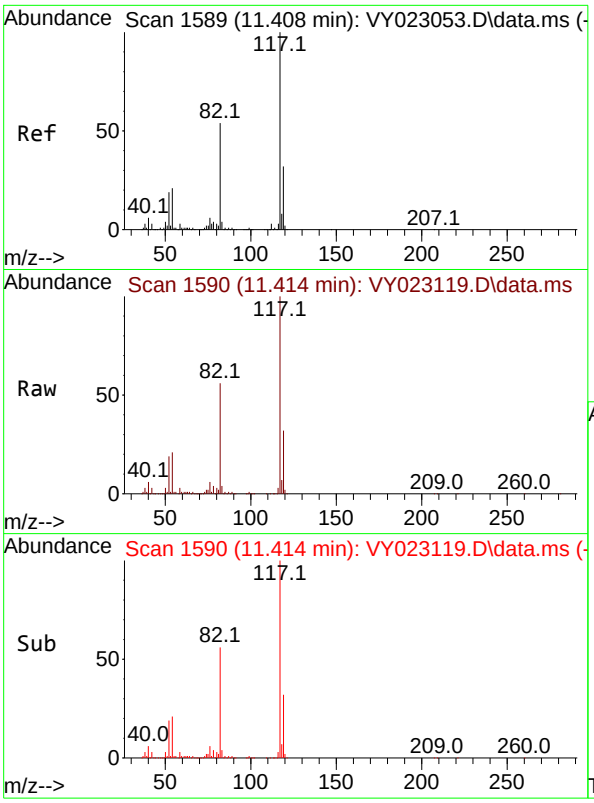


#62
4-Bromofluorobenzene
Concen: 42.610 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Tgt Ion: 95 Resp: 346717

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	171.6
176	83.7	0.0	167.6



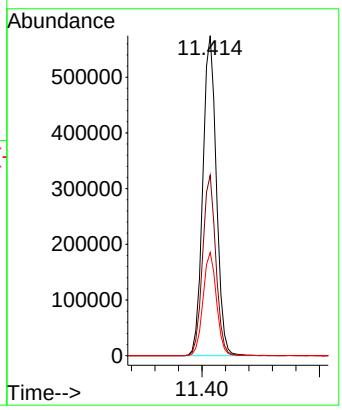


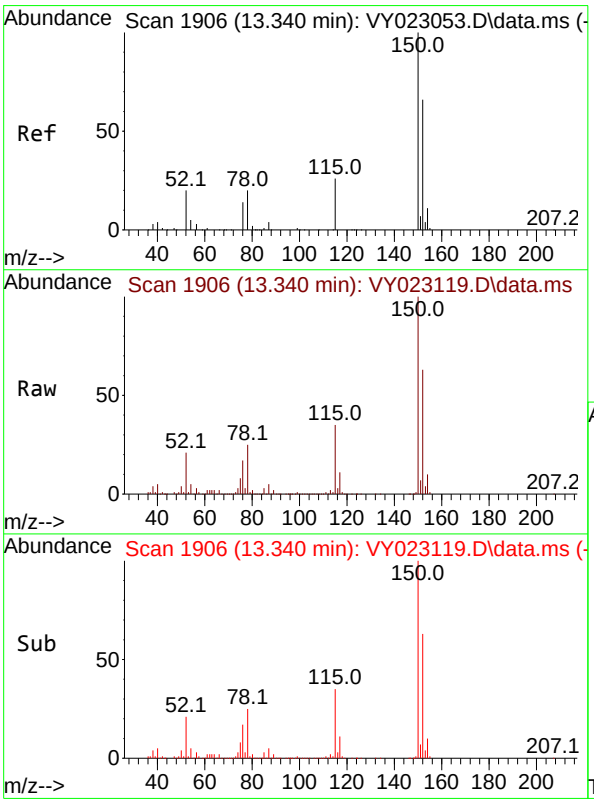
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Tgt Ion:117 Resp: 919769

Ion	Ratio	Lower	Upper
117	100		
82	56.4	43.4	65.0
119	32.3	25.6	38.4

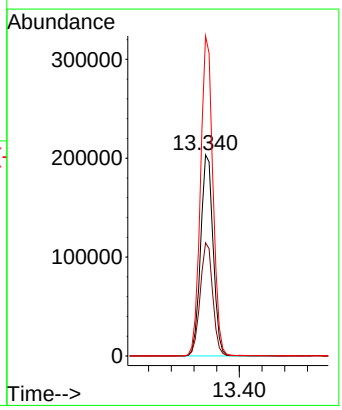




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023119.D
Acq: 15 Aug 2025 12:18

Tgt Ion:152 Resp: 311657

Ion	Ratio	Lower	Upper
152	100		
115	56.5	28.2	84.6
150	157.4	0.0	348.0



Sample Results: **VY023119.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023119.D
Acq On : 15 Aug 2025 12:18
Operator : SY/MD
Sample : Q2820-22
Misc : 8.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023119.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.104	382	391	402	rVB	34980	93605	2.73%	0.566%
2	4.610	464	474	492	rBV3	24318	85266	2.49%	0.515%
3	7.634	958	970	976	rBV	487001	1159078	33.83%	7.007%
4	7.707	976	982	994	rVB	730633	1646738	48.07%	9.955%
5	8.061	1030	1040	1052	rBV	416151	929467	27.13%	5.619%
6	8.610	1121	1130	1145	rBV	1237647	2461157	71.84%	14.879%
7	10.103	1365	1375	1394	rBV	2004418	3426038	100.00%	20.712%
8	11.414	1582	1590	1602	rBV	1751445	2816141	82.20%	17.025%
9	12.402	1745	1752	1761	rBV2	1247087	2024131	59.08%	12.237%
10	13.340	1894	1906	1915	rBV	1234717	1900026	55.46%	11.486%

Sum of corrected areas: 16541647

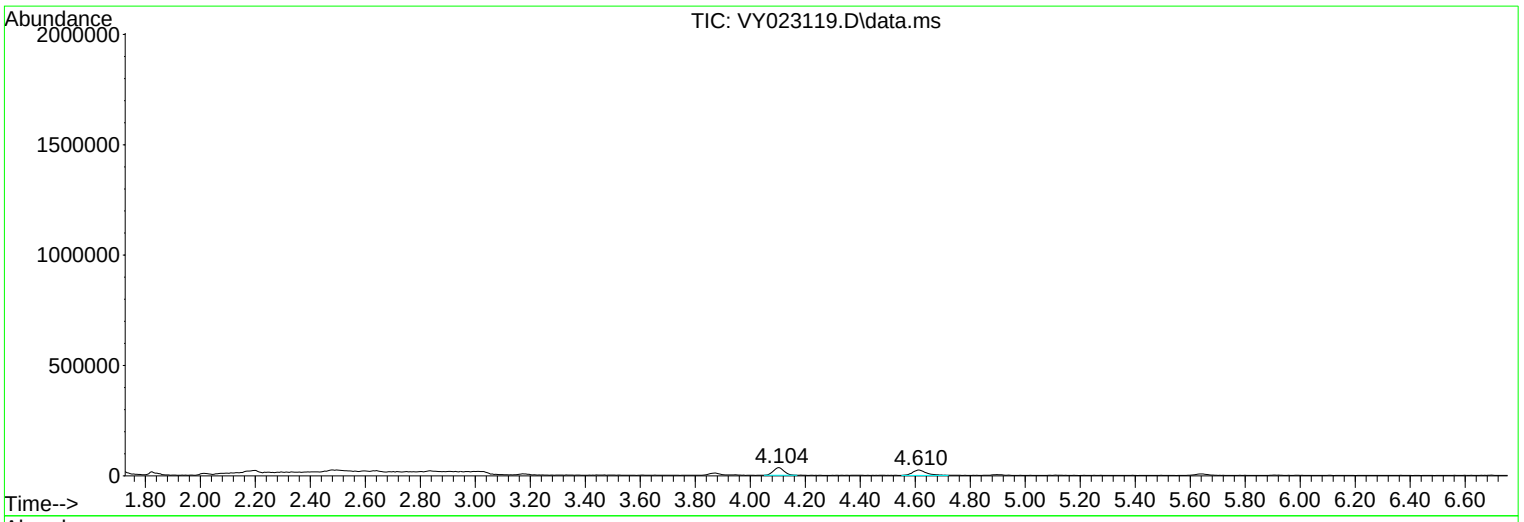
Sample Results: **VY023119.D**

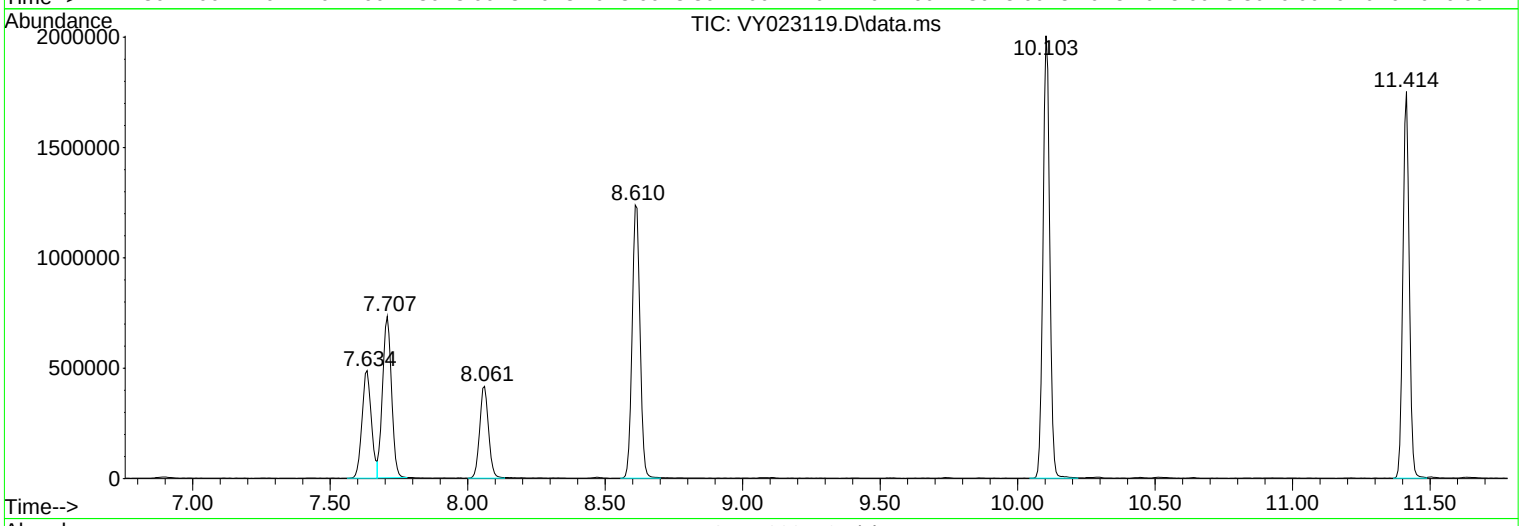
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023119.D
Acq On : 15 Aug 2025 12:18
Operator : SY/MD
Sample : Q2820-22
Misc : 8.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

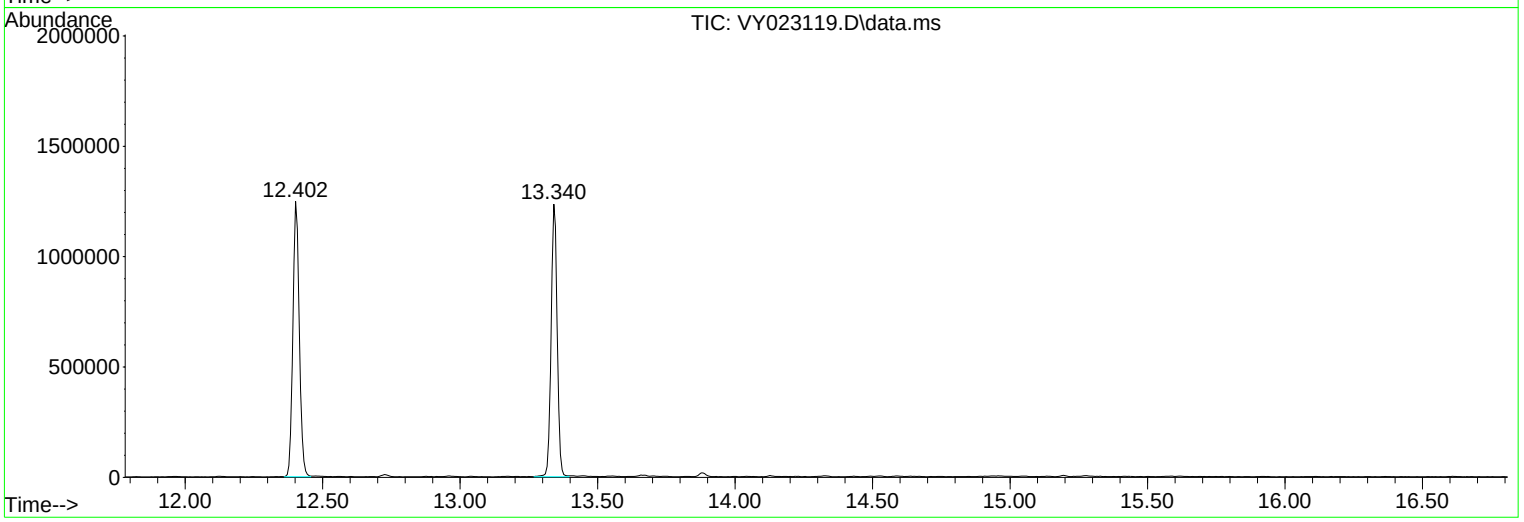
Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY023119.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023119.D
Acq On : 15 Aug 2025 12:18
Operator : SY/MD
Sample : Q2820-22
Misc : 8.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023119.D
Acq On : 15 Aug 2025 12:18
Operator : SY/MD
Sample : Q2820-22
Misc : 8.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY023143.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	34
Sample Wt/Vol:	4.45 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023143.D	1	08/19/25 12:07	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	13.2	U	3.80	13.2	16.5	ug/Kg
74-87-3	Chloromethane	8.30	U	3.80	8.30	16.5	ug/Kg
75-01-4	Vinyl Chloride	8.30	U	2.60	8.30	16.5	ug/Kg
74-83-9	Bromomethane	13.2	U	3.50	13.2	16.5	ug/Kg
75-00-3	Chloroethane	8.30	U	4.20	8.30	16.5	ug/Kg
75-69-4	Trichlorofluoromethane	13.2	U	4.00	13.2	16.5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	8.30	U	3.50	8.30	16.5	ug/Kg
75-35-4	1,1-Dichloroethene	8.30	U	3.30	8.30	16.5	ug/Kg
67-64-1	Acetone	66.1	U	15.7	66.1	82.6	ug/Kg
75-15-0	Carbon Disulfide	13.2	U	3.50	13.2	16.5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	8.30	U	2.40	8.30	16.5	ug/Kg
79-20-9	Methyl Acetate	13.2	U	5.10	13.2	16.5	ug/Kg
75-09-2	Methylene Chloride	26.4	U	11.7	26.4	33.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	8.30	U	2.80	8.30	16.5	ug/Kg
75-34-3	1,1-Dichloroethane	8.30	U	2.60	8.30	16.5	ug/Kg
110-82-7	Cyclohexane	8.30	U	2.60	8.30	16.5	ug/Kg
78-93-3	2-Butanone	66.1	U	21.6	66.1	82.6	ug/Kg
56-23-5	Carbon Tetrachloride	8.30	U	3.20	8.30	16.5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	8.30	U	2.50	8.30	16.5	ug/Kg
74-97-5	Bromochloromethane	13.2	U	3.80	13.2	16.5	ug/Kg
67-66-3	Chloroform	13.2	U	2.80	13.2	16.5	ug/Kg
71-55-6	1,1,1-Trichloroethane	8.30	U	3.10	8.30	16.5	ug/Kg
108-87-2	Methylcyclohexane	8.30	U	3.00	8.30	16.5	ug/Kg
71-43-2	Benzene	8.30	U	2.60	8.30	16.5	ug/Kg
107-06-2	1,2-Dichloroethane	8.30	U	2.60	8.30	16.5	ug/Kg
79-01-6	Trichloroethene	8.30	U	2.70	8.30	16.5	ug/Kg
78-87-5	1,2-Dichloropropane	8.30	U	3.00	8.30	16.5	ug/Kg
75-27-4	Bromodichloromethane	8.30	U	2.60	8.30	16.5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	41.3	U	11.8	41.3	82.6	ug/Kg
108-88-3	Toluene	8.30	U	2.60	8.30	16.5	ug/Kg

Raw Data: **VY023143.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	34
Sample Wt/Vol:	4.45 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023143.D	1	08/19/25 12:07	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	8.30	U	2.10	8.30	16.5	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	8.30	U	2.00	8.30	16.5	ug/Kg
79-00-5	1,1,2-Trichloroethane	8.30	U	3.00	8.30	16.5	ug/Kg
591-78-6	2-Hexanone	41.3	U	12.2	41.3	82.6	ug/Kg
124-48-1	Dibromochloromethane	8.30	U	2.90	8.30	16.5	ug/Kg
106-93-4	1,2-Dibromoethane	8.30	U	2.90	8.30	16.5	ug/Kg
127-18-4	Tetrachloroethene	8.30	U	3.50	8.30	16.5	ug/Kg
108-90-7	Chlorobenzene	8.30	U	3.00	8.30	16.5	ug/Kg
100-41-4	Ethyl Benzene	8.30	U	2.20	8.30	16.5	ug/Kg
179601-23-1	m/p-Xylenes	16.5	U	4.10	16.5	33.0	ug/Kg
95-47-6	o-Xylene	8.30	U	2.70	8.30	16.5	ug/Kg
100-42-5	Styrene	8.30	U	2.30	8.30	16.5	ug/Kg
75-25-2	Bromoform	8.30	U	2.80	8.30	16.5	ug/Kg
98-82-8	Isopropylbenzene	8.30	U	2.60	8.30	16.5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	8.30	U	4.00	8.30	16.5	ug/Kg
541-73-1	1,3-Dichlorobenzene	8.30	U	5.70	8.30	16.5	ug/Kg
106-46-7	1,4-Dichlorobenzene	8.30	U	5.20	8.30	16.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	8.30	U	4.80	8.30	16.5	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	13.2	U	6.10	13.2	16.5	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	13.2	U	9.80	13.2	16.5	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	13.2	U	10.5	13.2	16.5	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.1		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	50.8		85 - 116		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.4		79 - 119		83%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	606000	7.707				
540-36-3	1,4-Difluorobenzene	1110000	8.616				
3114-55-4	Chlorobenzene-d5	926000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	307000	13.347				

Raw Data: **VY023143.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	34
Sample Wt/Vol:	4.45 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023143.D	1	08/19/25 12:07	VY081925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023143.D
Acq On : 19 Aug 2025 12:07
Operator : SY/MD
Sample : Q2820-23
Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Quant Time: Aug 20 01:27:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

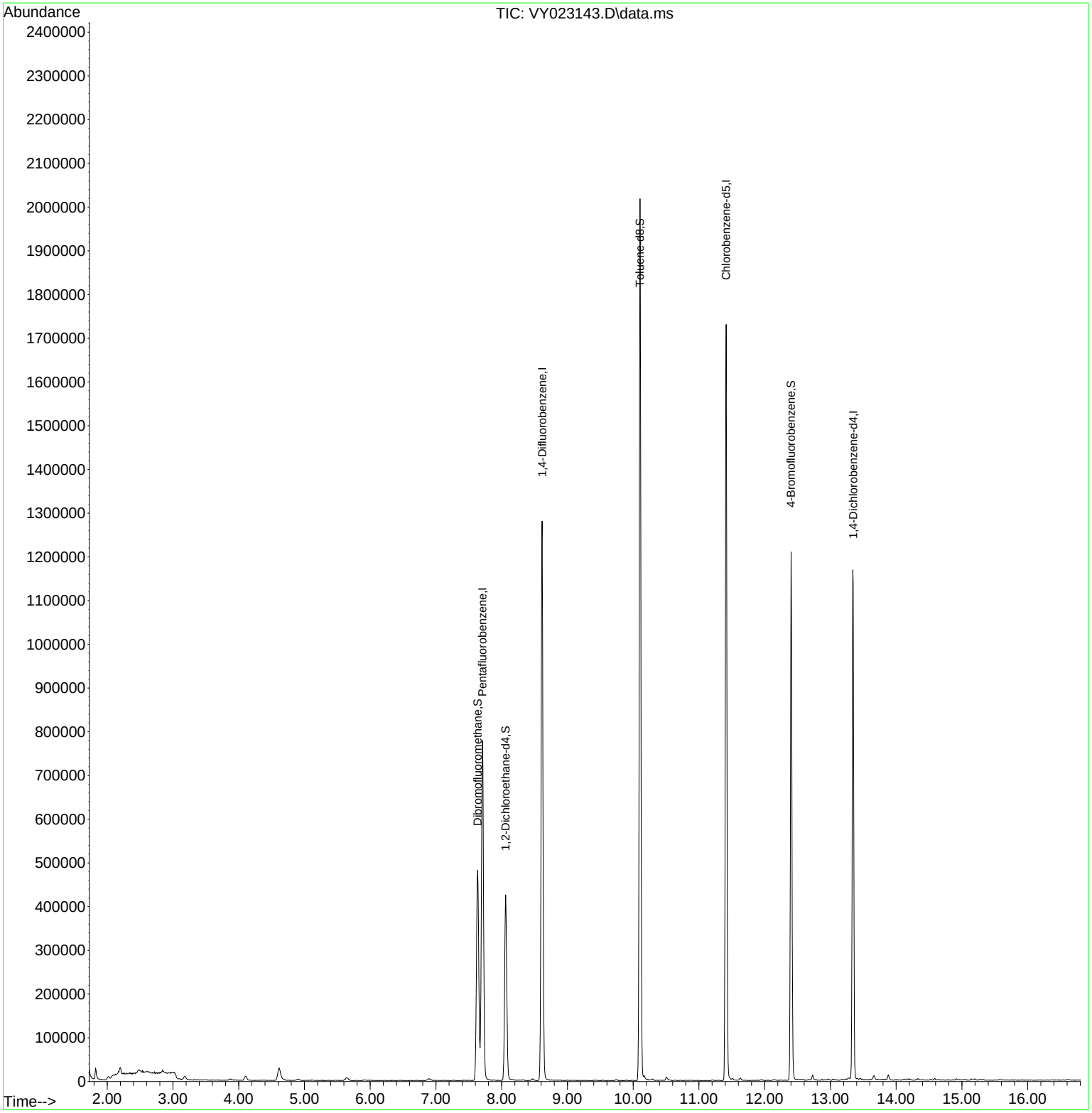
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	605918	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1109341	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	926207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	306765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	329769	57.105	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.200%			
35) Dibromofluoromethane	7.634	113	350032	52.732	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.460%			
50) Toluene-d8	10.103	98	1316385	50.764	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.520%			
62) 4-Bromofluorobenzene	12.402	95	345633	41.445	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.880%			
Target Compounds						Qvalue

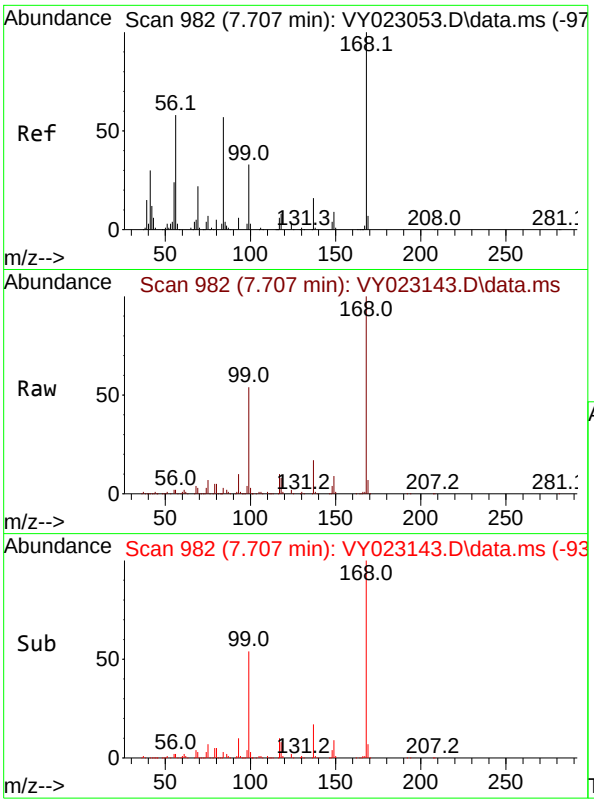
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023143.D
Acq On : 19 Aug 2025 12:07
Operator : SY/MD
Sample : Q2820-23
Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Quant Time: Aug 20 01:27:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



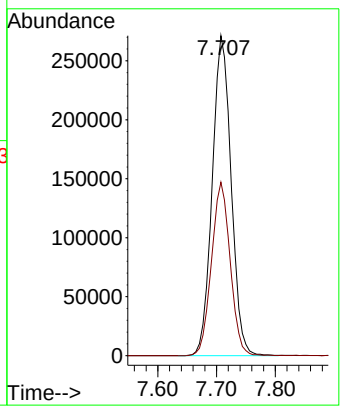


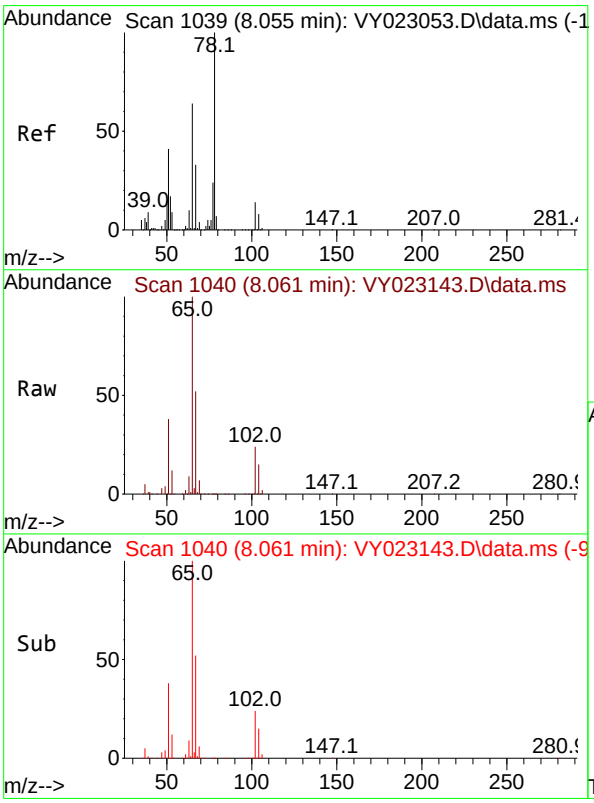
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Tgt Ion:168 Resp: 605918

Ion	Ratio	Lower	Upper
168	100		
99	54.2	42.8	64.2

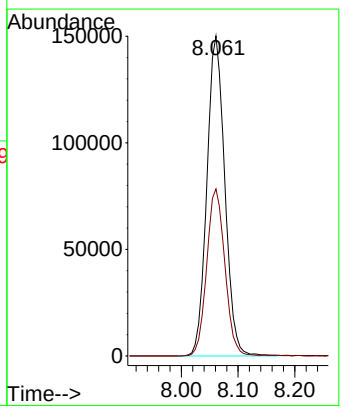


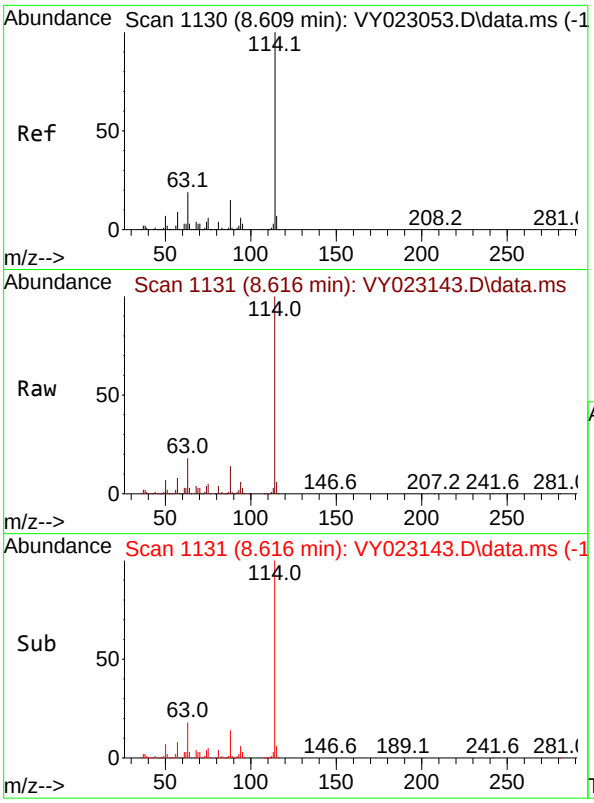


#33
1,2-Dichloroethane-d4
Concen: 57.105 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Tgt Ion: 65 Resp: 329769

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	106.8



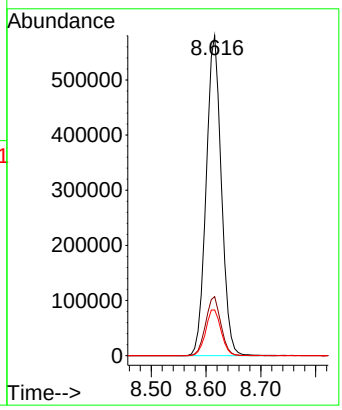


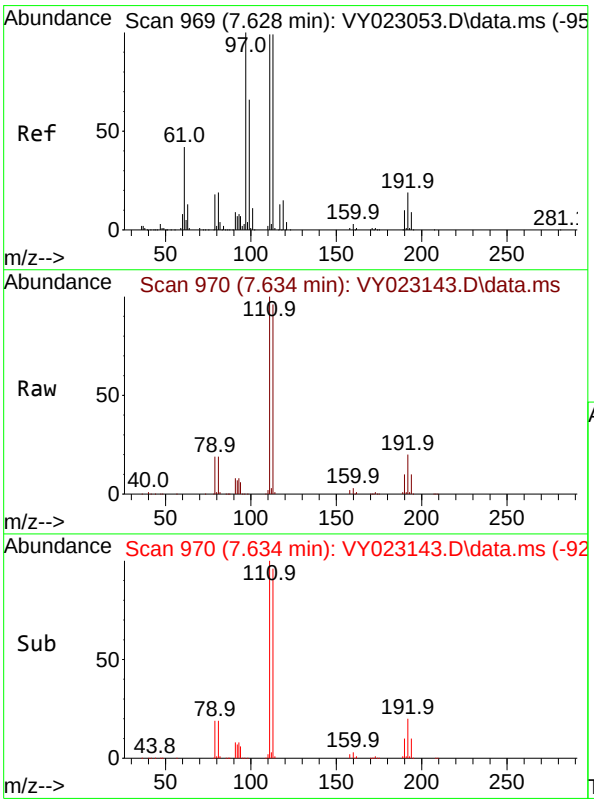
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Tgt Ion:114 Resp: 1109341

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	38.4
88	14.3	0.0	30.0

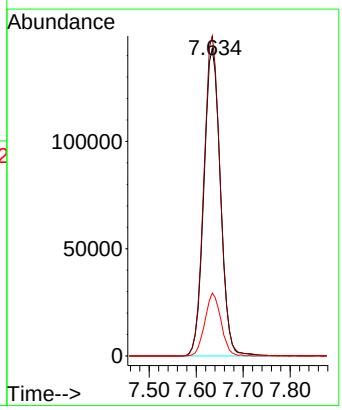


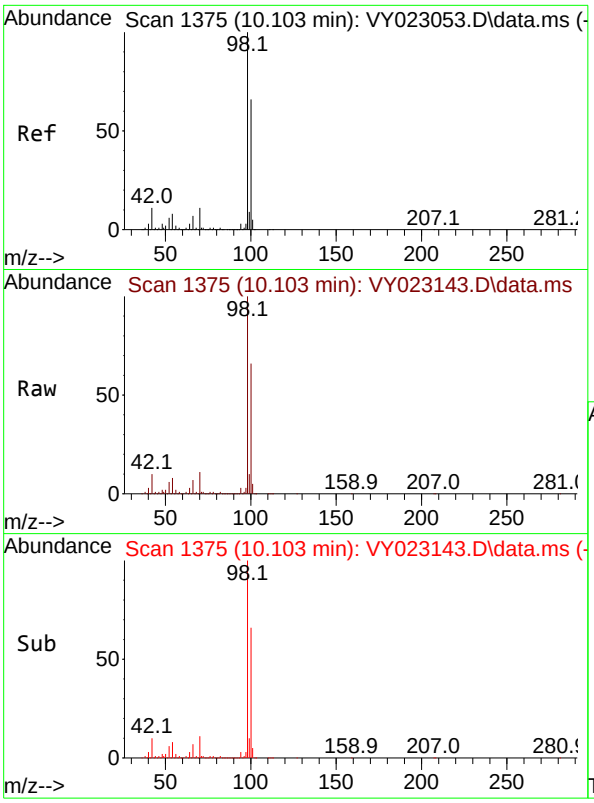


#35
Dibromofluoromethane
Concen: 52.732 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Tgt Ion:113 Resp: 350032

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.1	121.7
192	20.0	16.2	24.4



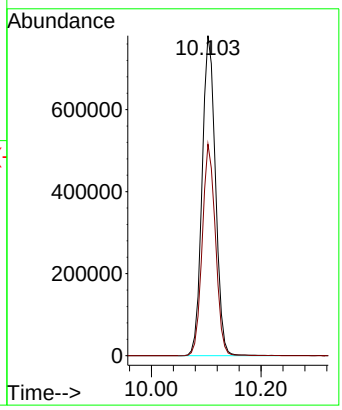


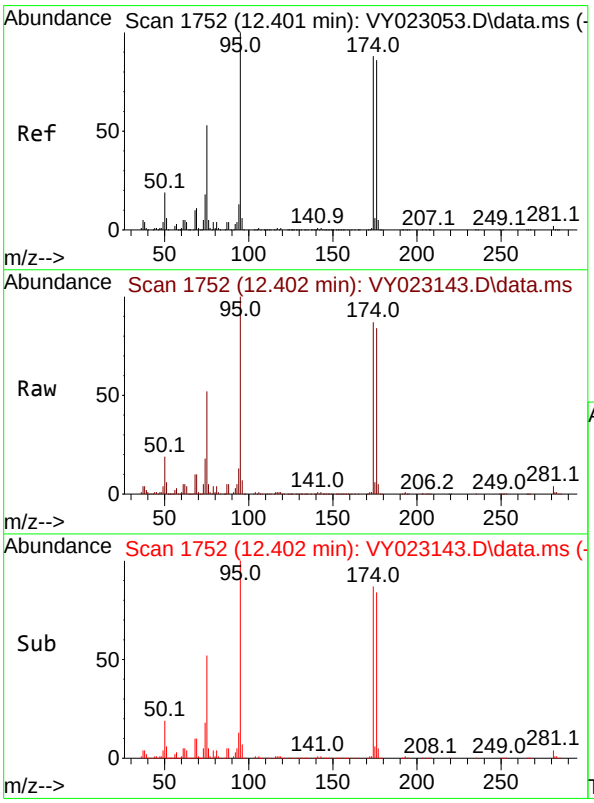
#50
Toluene-d8
Concen: 50.764 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Tgt Ion: 98 Resp: 1316385

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

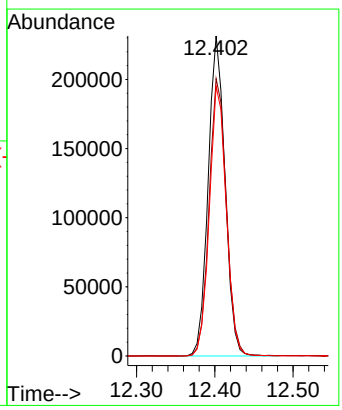


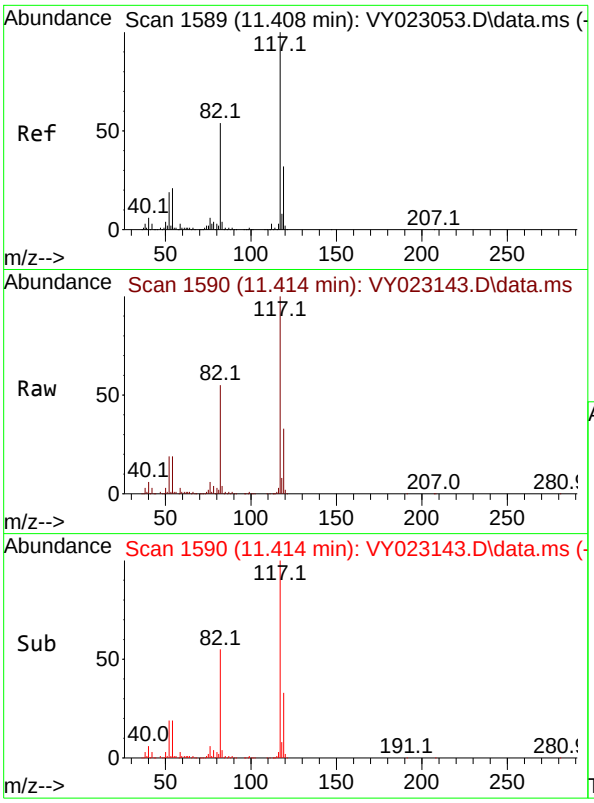


#62
4-Bromofluorobenzene
Concen: 41.445 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Tgt Ion: 95 Resp: 345633

Ion	Ratio	Lower	Upper
95	100		
174	88.9	0.0	171.6
176	84.5	0.0	167.6



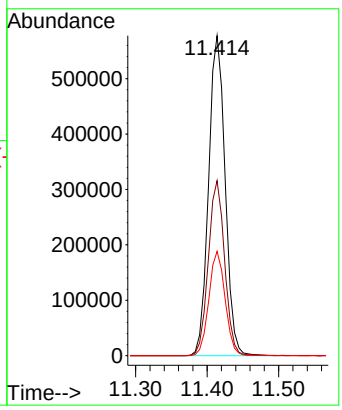


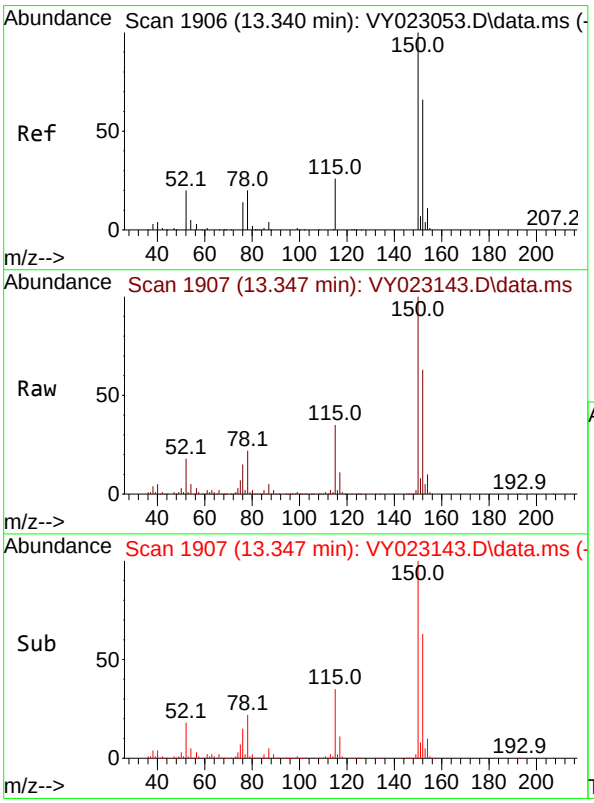
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Tgt Ion:117 Resp: 926207

Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.4	65.0
119	32.6	25.6	38.4

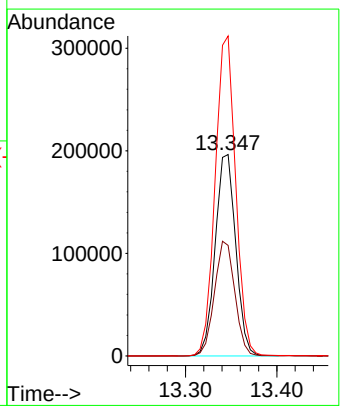




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023143.D
Acq: 19 Aug 2025 12:07

Tgt Ion:152 Resp: 306765

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	158.6	0.0	348.0



Sample Results: **VY023143.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023143.D
Acq On : 19 Aug 2025 12:07
Operator : SY/MD
Sample : Q2820-23
Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023143.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	1.824	12	17	31	rVB3	25811	46533	1.37%	0.283%
2	4.616	464	475	495	rBV2	28440	97166	2.86%	0.592%
3	7.634	959	970	976	rBV	481299	1171948	34.50%	7.140%
4	7.707	976	982	997	rVB	776263	1744618	51.36%	10.629%
5	8.061	1029	1040	1051	rBV	425000	942767	27.75%	5.744%
6	8.616	1119	1131	1144	rBV	1279875	2485266	73.17%	15.141%
7	10.103	1367	1375	1383	rBV	2017048	3396789	100.00%	20.694%
8	11.414	1582	1590	1602	rBV	1729278	2782413	81.91%	16.951%
9	12.402	1743	1752	1765	rBV	1208431	1918708	56.49%	11.689%
10	13.340	1899	1906	1915	rVB	1164158	1828063	53.82%	11.137%

Sum of corrected areas: 16414271

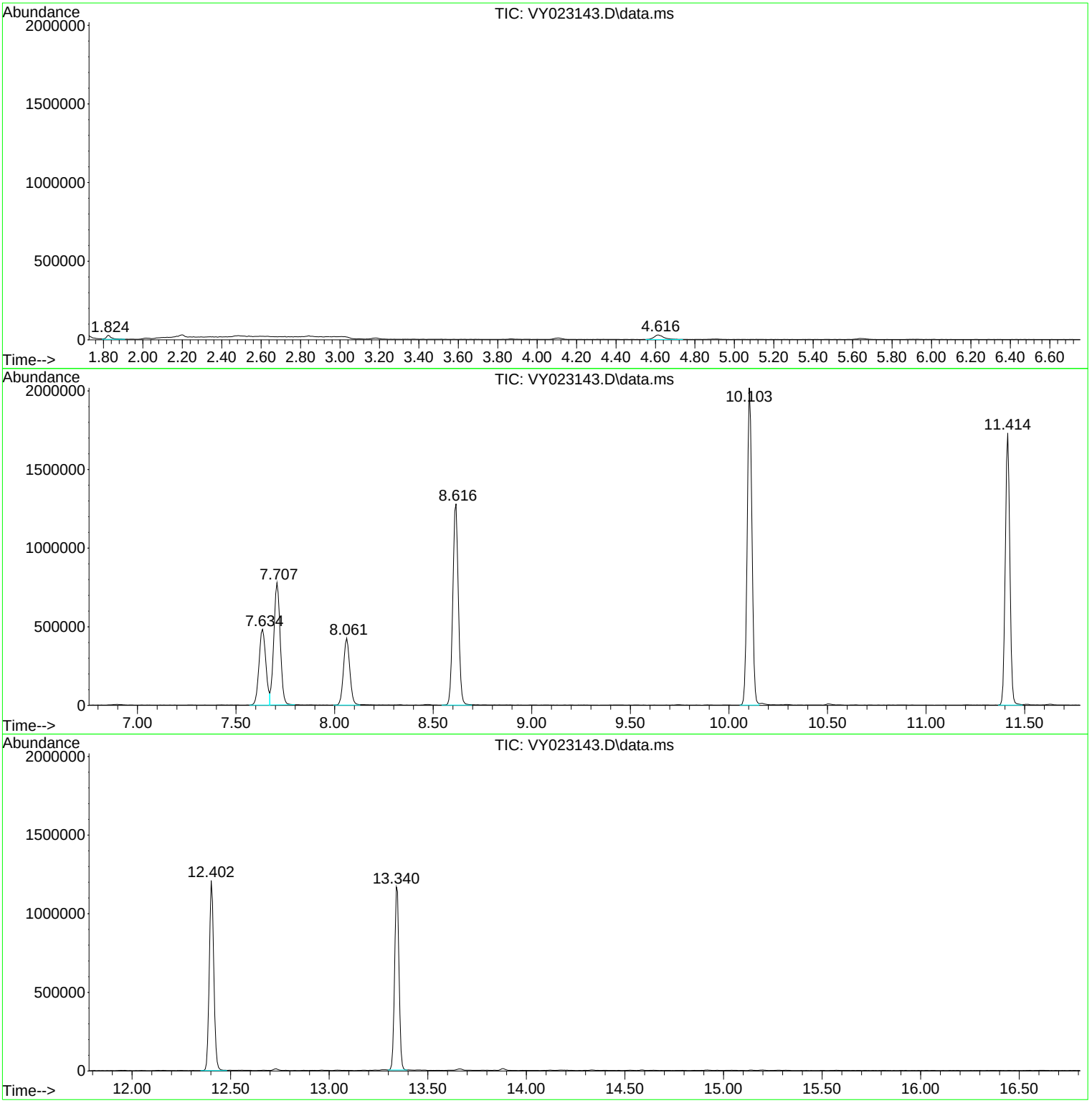
Sample Results: **VY023143.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023143.D
Acq On : 19 Aug 2025 12:07
Operator : SY/MD
Sample : Q2820-23
Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023143.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023143.D
Acq On : 19 Aug 2025 12:07
Operator : SY/MD
Sample : Q2820-23
Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023143.D
Acq On : 19 Aug 2025 12:07
Operator : SY/MD
Sample : Q2820-23
Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY023122.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-24	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89
Sample Wt/Vol:	5.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023122.D	1	08/15/25 13:28	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.80	U	1.10	3.80	4.70	ug/Kg
74-87-3	Chloromethane	2.30	U	1.10	2.30	4.70	ug/Kg
75-01-4	Vinyl Chloride	2.30	U	0.74	2.30	4.70	ug/Kg
74-83-9	Bromomethane	3.80	U	1.00	3.80	4.70	ug/Kg
75-00-3	Chloroethane	2.30	U	1.20	2.30	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	3.80	U	1.10	3.80	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.30	U	0.99	2.30	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	2.30	U	0.94	2.30	4.70	ug/Kg
67-64-1	Acetone	8.00	J	4.40	18.8	23.4	ug/Kg
75-15-0	Carbon Disulfide	2.60	J	0.99	3.80	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.30	U	0.68	2.30	4.70	ug/Kg
79-20-9	Methyl Acetate	3.80	U	1.40	3.80	4.70	ug/Kg
75-09-2	Methylene Chloride	7.50	U	3.30	7.50	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.30	U	0.81	2.30	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	2.30	U	0.75	2.30	4.70	ug/Kg
110-82-7	Cyclohexane	2.30	U	0.74	2.30	4.70	ug/Kg
78-93-3	2-Butanone	18.8	U	6.10	18.8	23.4	ug/Kg
56-23-5	Carbon Tetrachloride	2.30	U	0.91	2.30	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.30	U	0.70	2.30	4.70	ug/Kg
74-97-5	Bromochloromethane	3.80	U	1.10	3.80	4.70	ug/Kg
67-66-3	Chloroform	3.80	U	0.79	3.80	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.30	U	0.87	2.30	4.70	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	0.85	2.30	4.70	ug/Kg
71-43-2	Benzene	2.30	U	0.74	2.30	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	2.30	U	0.74	2.30	4.70	ug/Kg
79-01-6	Trichloroethene	2.30	U	0.76	2.30	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	2.30	U	0.85	2.30	4.70	ug/Kg
75-27-4	Bromodichloromethane	2.30	U	0.73	2.30	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.7	U	3.40	11.7	23.4	ug/Kg
108-88-3	Toluene	2.30	U	0.73	2.30	4.70	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-24	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89
Sample Wt/Vol:	5.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023122.D	1	08/15/25 13:28	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.30	U	0.61	2.30	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.30	U	0.58	2.30	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.30	U	0.86	2.30	4.70	ug/Kg
591-78-6	2-Hexanone	11.7	U	3.50	11.7	23.4	ug/Kg
124-48-1	Dibromochloromethane	2.30	U	0.82	2.30	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	2.30	U	0.83	2.30	4.70	ug/Kg
127-18-4	Tetrachloroethene	2.30	U	0.98	2.30	4.70	ug/Kg
108-90-7	Chlorobenzene	2.30	U	0.85	2.30	4.70	ug/Kg
100-41-4	Ethyl Benzene	2.30	U	0.63	2.30	4.70	ug/Kg
179601-23-1	m/p-Xylenes	4.70	U	1.20	4.70	9.40	ug/Kg
95-47-6	o-Xylene	2.30	U	0.77	2.30	4.70	ug/Kg
100-42-5	Styrene	2.30	U	0.67	2.30	4.70	ug/Kg
75-25-2	Bromoform	2.30	U	0.81	2.30	4.70	ug/Kg
98-82-8	Isopropylbenzene	2.30	U	0.73	2.30	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.30	U	1.10	2.30	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	1.60	2.30	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.30	U	1.50	2.30	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	1.40	2.30	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.80	U	1.70	3.80	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.80	U	2.80	3.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.80	U	3.00	3.80	4.70	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.7		71 - 136		111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		78 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.0		85 - 116		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	540000	7.707				
540-36-3	1,4-Difluorobenzene	1020000	8.609				
3114-55-4	Chlorobenzene-d5	889000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	377000	13.34				
TENTATIVE IDENTIFIED COMPOUNDS							

Raw Data: **VY023122.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-24	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89
Sample Wt/Vol:	5.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023122.D	1	08/15/25 13:28	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000091-17-8	Naphthalene, decahydro-	91.7	J			13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	150	J			14.2	ug/Kg
002958-75-0	1-Methyldecahydronaphthalene	91.3	J			14.3	ug/Kg
000112-40-3	Dodecane	64.1	J			14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	250	J			14.6	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	310	J			15.1	ug/Kg
000629-50-5	Tridecane	100	J			15.3	ug/Kg
	unknown15.505	150	J			15.5	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	100	J			16.0	ug/Kg
080655-44-3	Decahydro-1,1,4a,5,6-pentamethylna	120	J			16.6	ug/Kg

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Time: Aug 18 02:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

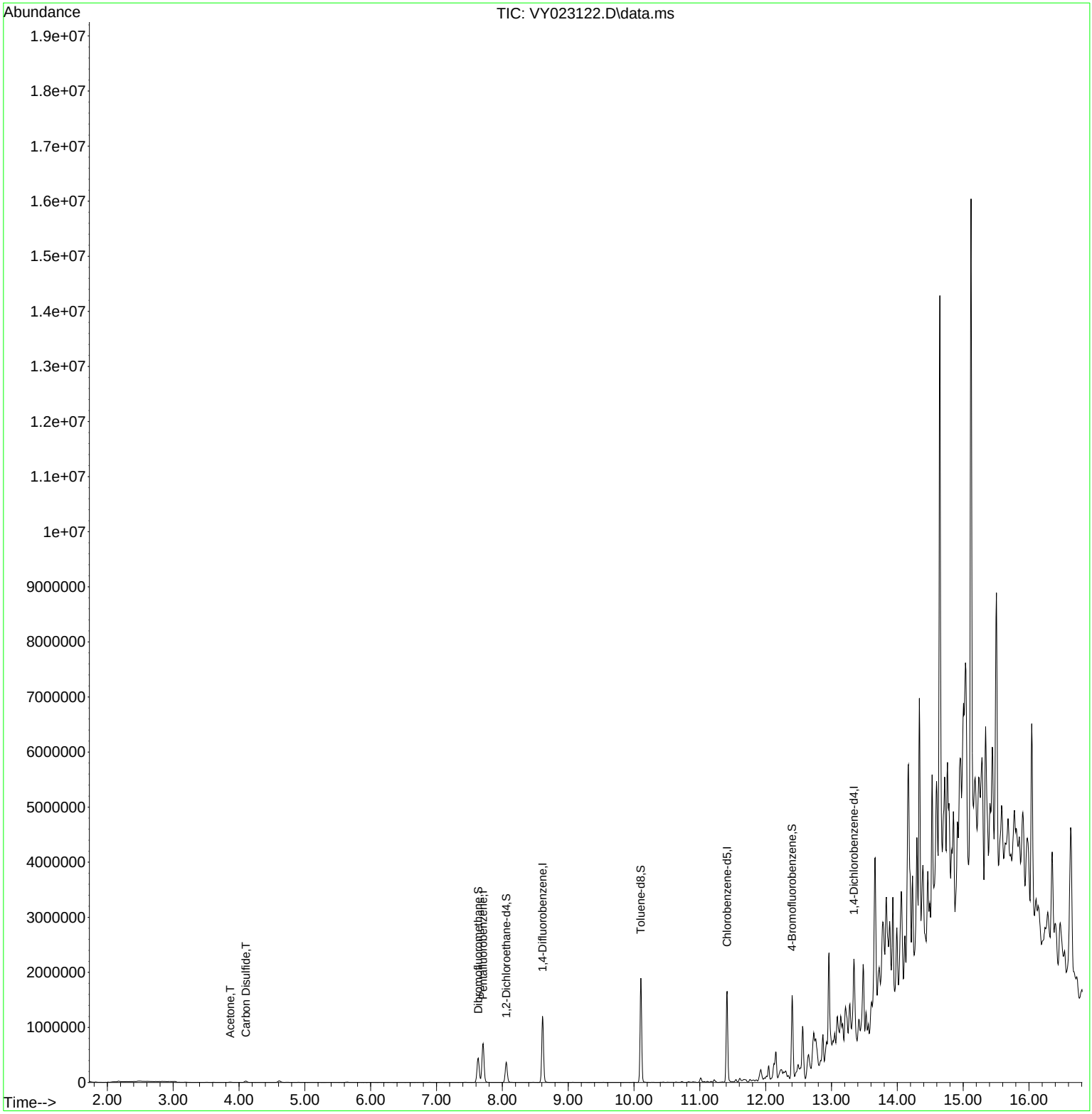
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	540065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1019542	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	888710	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	376737	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	286859	55.731	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.460%			
35) Dibromofluoromethane	7.634	113	313774	51.433	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.860%			
50) Toluene-d8	10.103	98	1216617	51.048	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.100%			
62) 4-Bromofluorobenzene	12.401	95	370266	48.309	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.620%			
Target Compounds						Qvalue
16) Acetone	3.866	43	9484	8.505	ug/l #	87
17) Carbon Disulfide	4.104	76	46150	2.720	ug/l #	95

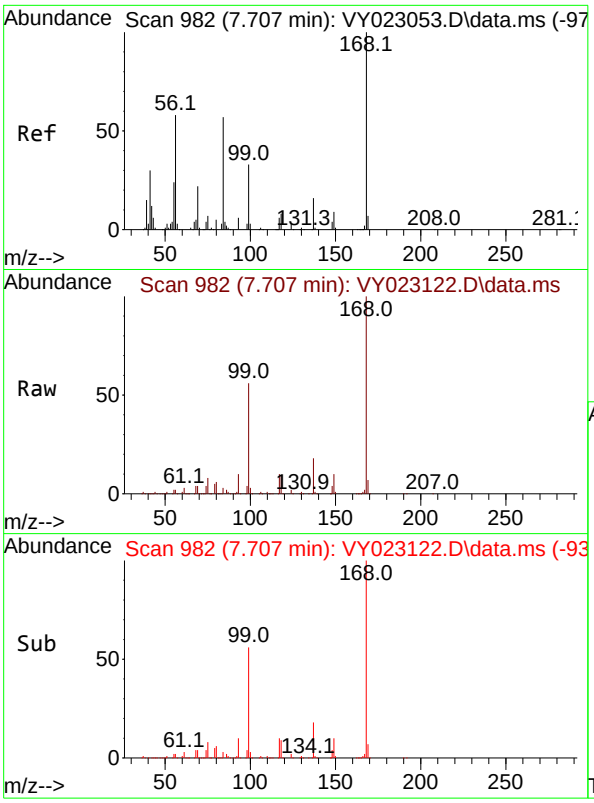
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Time: Aug 18 02:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



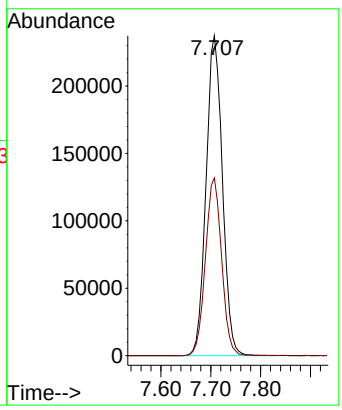


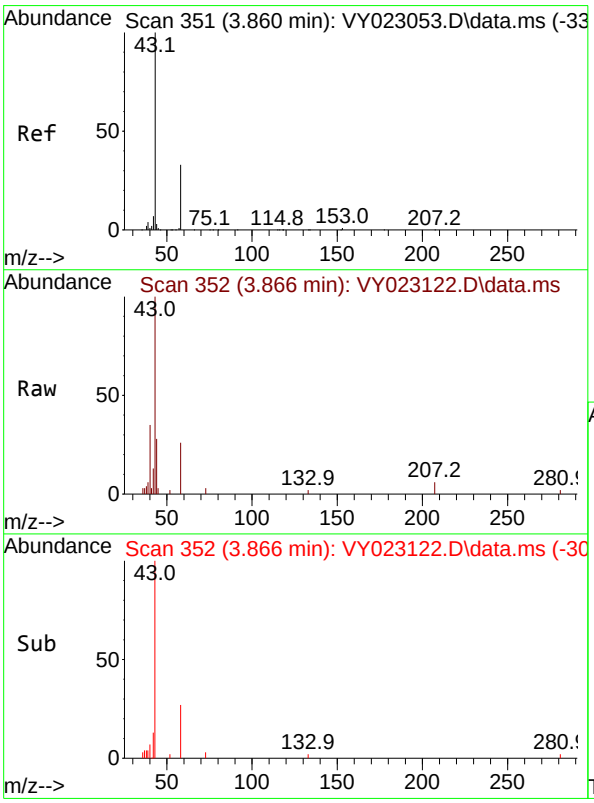
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Tgt Ion:168 Resp: 540065

Ion	Ratio	Lower	Upper
168	100		
99	55.6	42.8	64.2

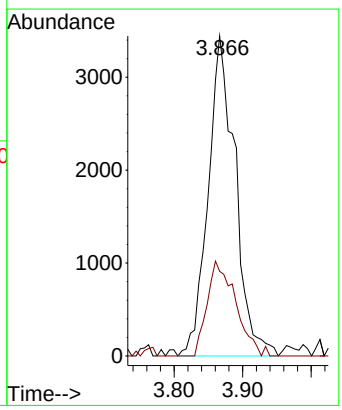


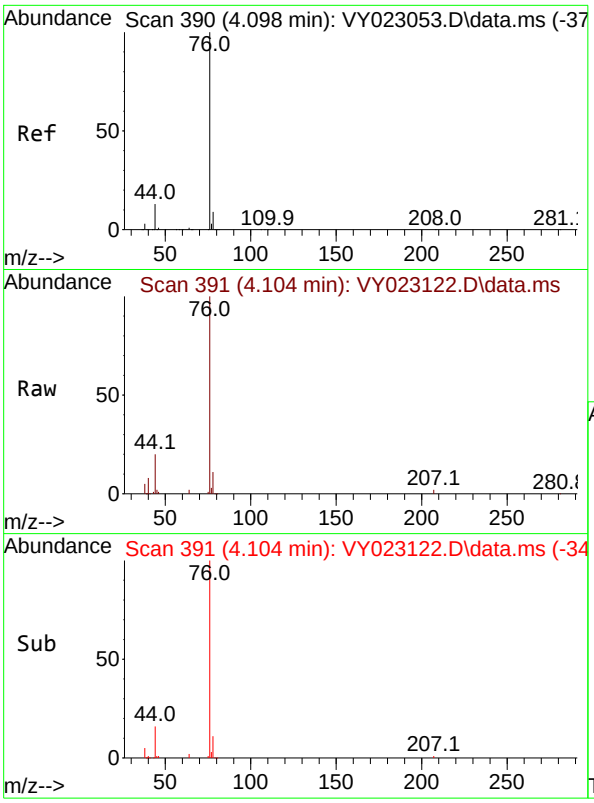


#16
Acetone
Concen: 8.505 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 43 Resp: 9484

Ion	Ratio	Lower	Upper
43	100		
58	26.5	27.1	40.7#



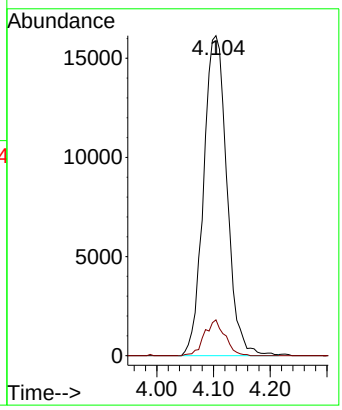


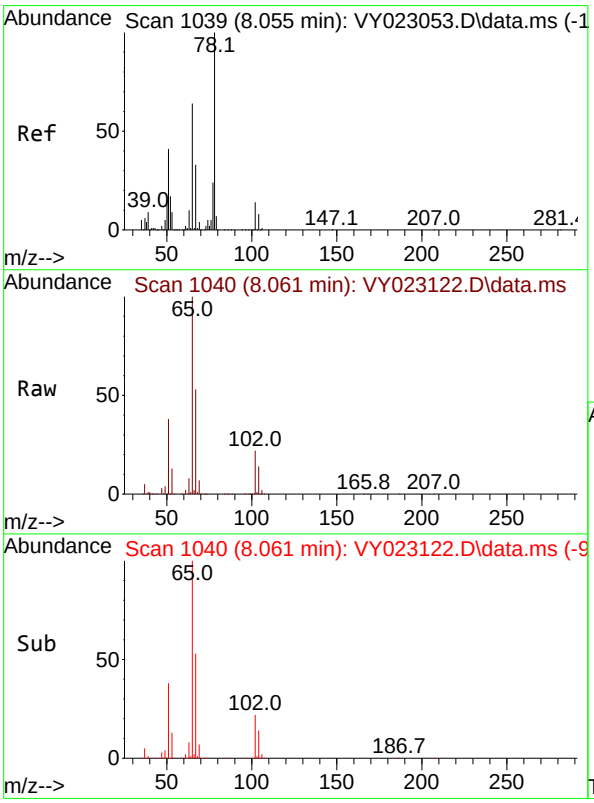
#17
Carbon Disulfide
Concen: 2.720 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Tgt Ion: 76 Resp: 46150

Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.4	11.2#

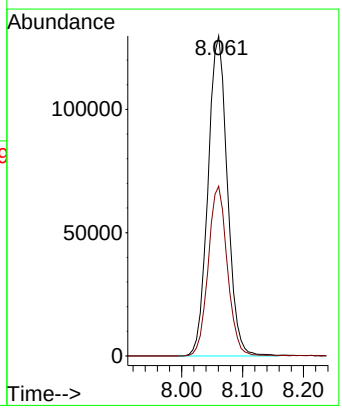


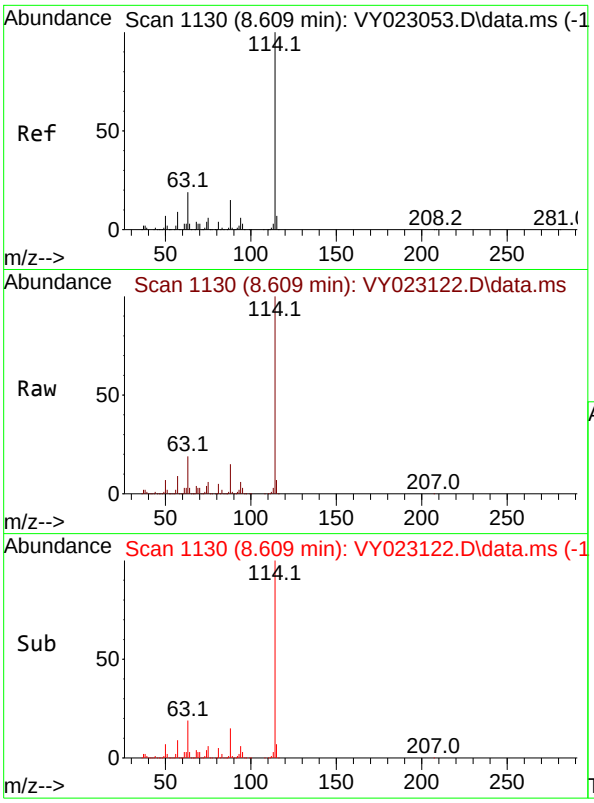


#33
1,2-Dichloroethane-d4
Concen: 55.731 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 65 Resp: 286859

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.8



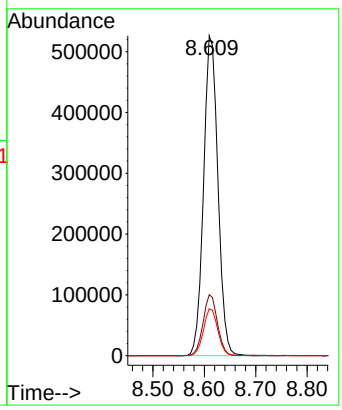


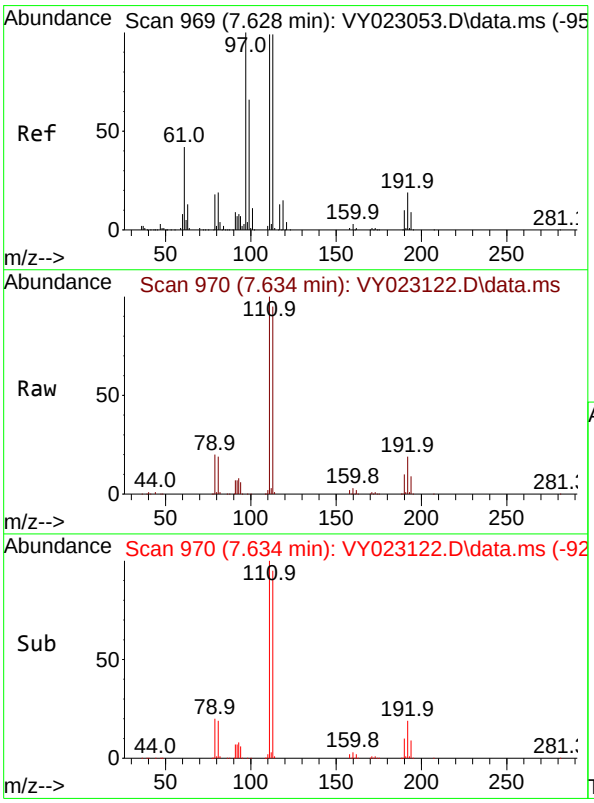
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Tgt Ion:114 Resp: 1019542

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.4
88	14.6	0.0	30.0

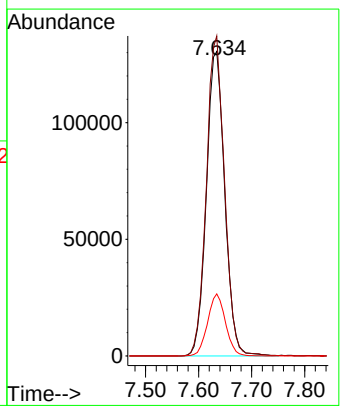


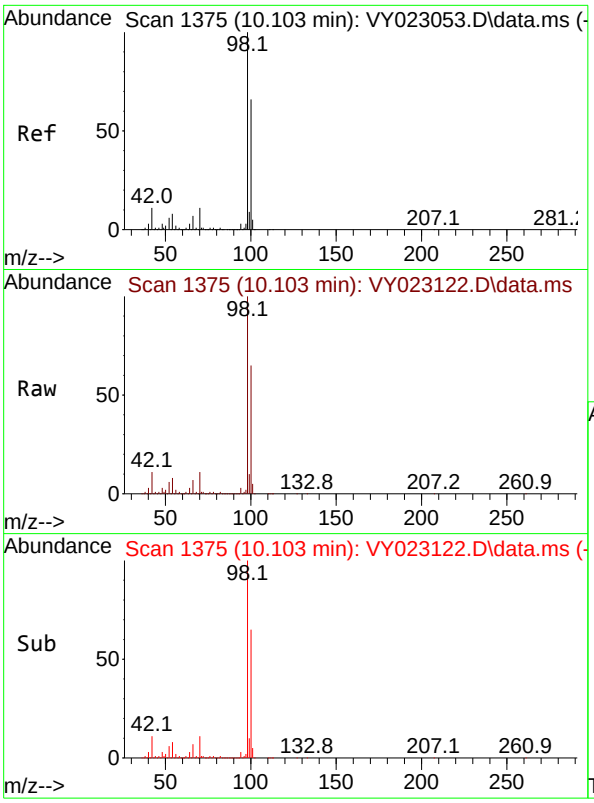


#35
Dibromofluoromethane
Concen: 51.433 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion:113 Resp: 313774

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.1	121.7
192	19.9	16.2	24.4



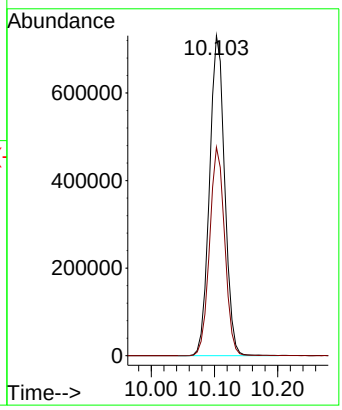


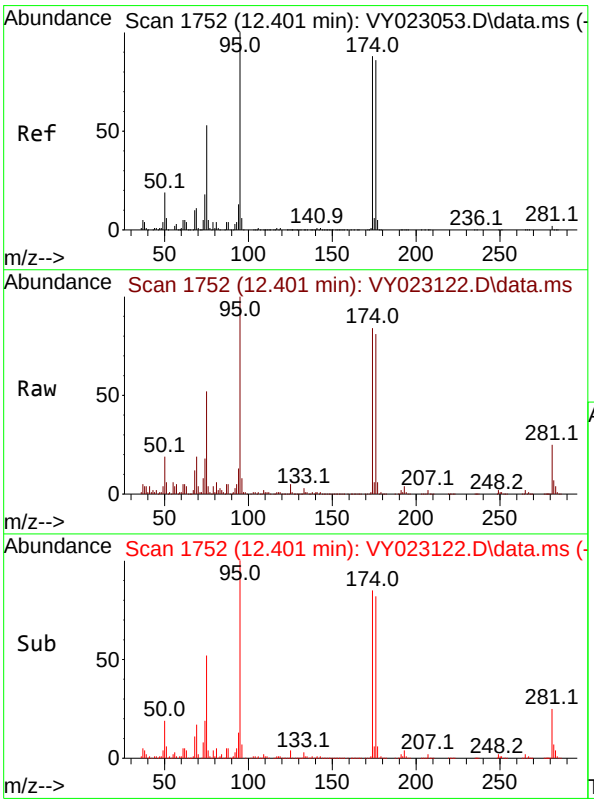
#50
Toluene-d8
Concen: 51.048 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Tgt Ion: 98 Resp: 1216617

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5

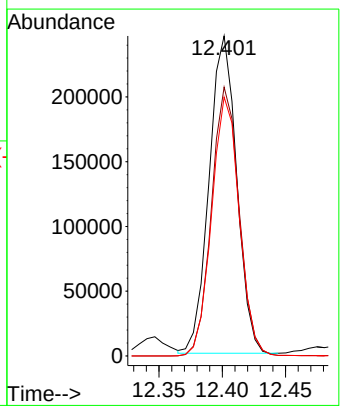


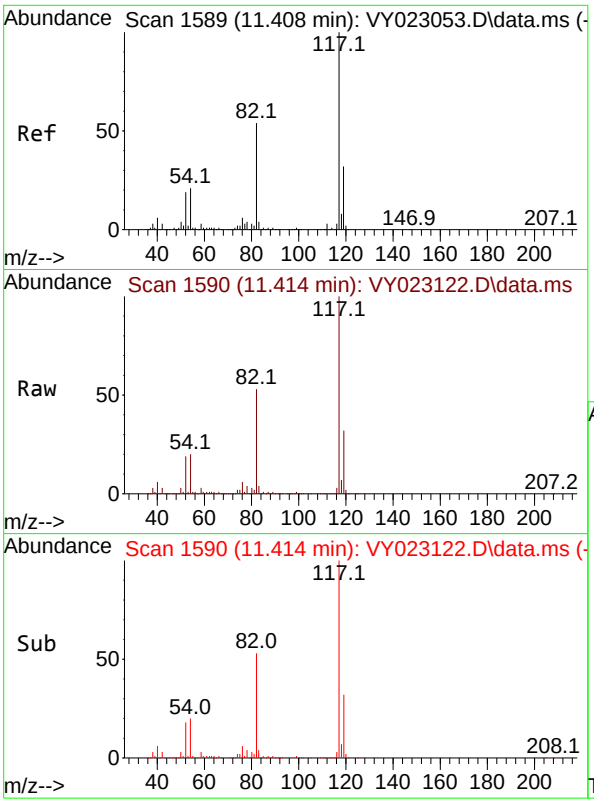


#62
4-Bromofluorobenzene
Concen: 48.309 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 95 Resp: 370266

Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	171.6
176	82.0	0.0	167.6



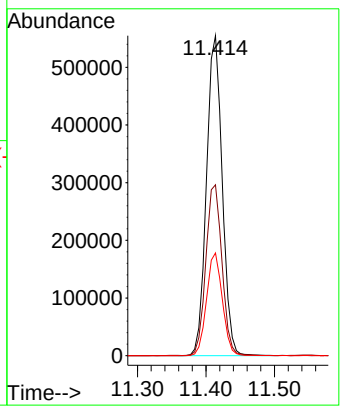


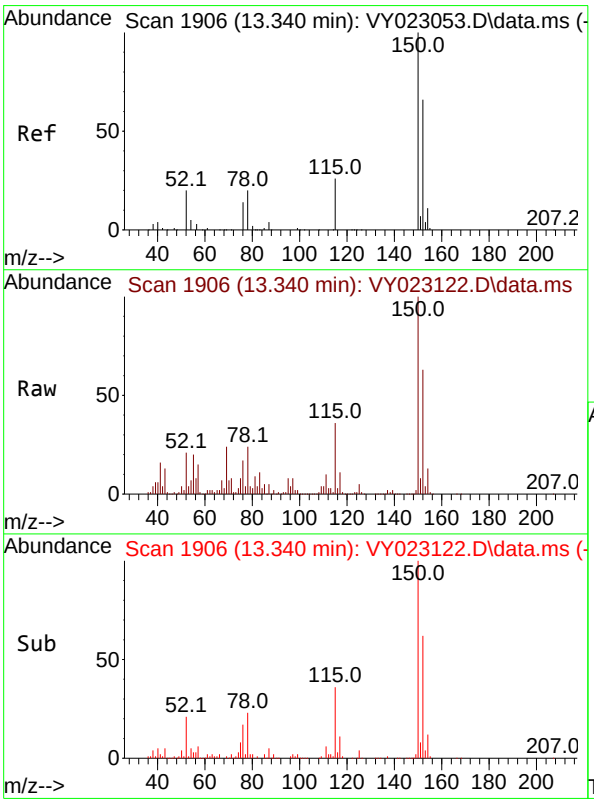
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Tgt Ion:117 Resp: 888710

Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.4	65.0
119	32.1	25.6	38.4

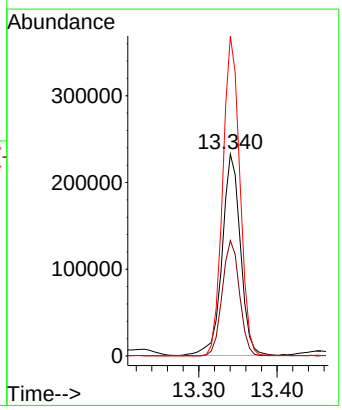




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion:152 Resp: 376737

Ion	Ratio	Lower	Upper
152	100		
115	54.1	28.2	84.6
150	148.6	0.0	348.0



Sample Results: **VY023122.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023122.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.634	957	970	976	rBV	441610	1068568	5.82%	0.696%
2	7.707	976	982	997	rVB	701730	1574686	8.57%	1.026%
3	8.061	1030	1040	1060	rBV	365524	815430	4.44%	0.531%
4	8.609	1121	1130	1144	rBV	1202283	2330051	12.68%	1.518%
5	10.103	1367	1375	1389	rBV	1893309	3177241	17.29%	2.070%
6	11.414	1582	1590	1602	rBV	1650646	2736612	14.89%	1.783%
7	11.926	1666	1674	1680	rBV4	206914	508872	2.77%	0.332%
8	12.048	1690	1694	1698	rVB	241575	342474	1.86%	0.223%
9	12.127	1698	1707	1708	rBV4	286203	459293	2.50%	0.299%
10	12.152	1708	1711	1716	rVB	469143	754292	4.11%	0.491%
11	12.237	1716	1725	1729	rBV6	150801	468782	2.55%	0.305%
12	12.401	1746	1752	1758	rBV2	1510733	2636752	14.35%	1.718%
13	12.493	1758	1767	1771	rBV6	213613	564444	3.07%	0.368%
14	12.560	1774	1778	1785	rVB2	950641	1694378	9.22%	1.104%
15	12.651	1785	1793	1799	rBV6	435548	1302025	7.09%	0.848%
16	12.731	1799	1806	1809	rBV4	646795	1484350	8.08%	0.967%
17	12.871	1820	1829	1832	rBV4	556043	969661	5.28%	0.632%
18	12.926	1832	1838	1839	rBV4	356874	571266	3.11%	0.372%
19	12.962	1839	1844	1851	rVB	1705066	2866014	15.60%	1.867%
20	13.090	1861	1865	1870	rBV4	479003	952195	5.18%	0.620%
21	13.139	1870	1873	1876	rVV2	299311	397103	2.16%	0.259%
22	13.212	1881	1885	1892	rBV6	607148	1450031	7.89%	0.945%
23	13.279	1892	1896	1900	rVV5	606411	1070931	5.83%	0.698%
24	13.340	1902	1906	1914	rVB2	1486442	2745107	14.94%	1.788%
25	13.413	1914	1918	1922	rBV2	389964	717227	3.90%	0.467%
26	13.481	1925	1929	1933	rVB4	1217620	1889789	10.29%	1.231%
27	13.523	1933	1936	1939	rBV5	345856	399195	2.17%	0.260%
28	13.609	1945	1950	1952	rBV5	564477	1040562	5.66%	0.678%
29	13.663	1953	1959	1964	rVV4	2695189	5370199	29.23%	3.499%
30	13.779	1974	1978	1983	rBV6	946295	2143648	11.67%	1.397%
31	13.834	1983	1987	1992	rVV3	1072425	1888232	10.28%	1.230%
32	13.932	2000	2003	2008	rVB	1708029	2135499	11.62%	1.391%
33	13.993	2009	2013	2017	rBV4	1101857	1592729	8.67%	1.038%
34	14.060	2018	2024	2029	rBV6	1613742	3368538	18.33%	2.195%
35	14.115	2030	2033	2036	rBV3	773090	1064253	5.79%	0.693%
36	14.169	2036	2042	2049	rBV5	3592988	8763413	47.70%	5.709%

Sample Results: **VY023122.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

37	14.230	2049	2052	2056	rVB4	1438308	1778468	9.68%	1.159%
38	14.297	2059	2063	2066	rBV3	1860132	2638563	14.36%	1.719%
39	14.334	2066	2069	2073	rVB3	4046552	5346627	29.10%	3.483%
40	14.462	2086	2090	2093	rBV2	1272513	1922508	10.46%	1.252%
41	14.529	2097	2101	2105	rBV2	2592911	3753963	20.43%	2.446%
42	14.596	2108	2112	2116	rVV4	1800085	3287159	17.89%	2.142%
43	14.645	2116	2120	2126	rVV	10220204	14891485	81.05%	9.702%
44	14.761	2136	2139	2142	rBV	1607206	2317191	12.61%	1.510%
45	14.913	2161	2164	2166	rBV3	1176199	1622220	8.83%	1.057%
46	14.956	2167	2171	2174	rVV6	1363830	2930067	15.95%	1.909%
47	15.121	2193	2198	2204	rBV	11928806	18373598	100.00%	11.970%
48	15.340	2230	2234	2241	rBV4	2780610	5861006	31.90%	3.818%
49	15.505	2256	2261	2266	rVB2	4950157	8687666	47.28%	5.660%
50	16.041	2345	2349	2356	rVB	3481361	5857617	31.88%	3.816%
51	16.352	2396	2400	2405	rVB2	1465201	2406980	13.10%	1.568%
52	16.474	2416	2420	2428	rBV8	672210	1632369	8.88%	1.063%
53	16.632	2440	2446	2459	rVB3	2747286	6874697	37.42%	4.479%

Sum of corrected areas: 153496026

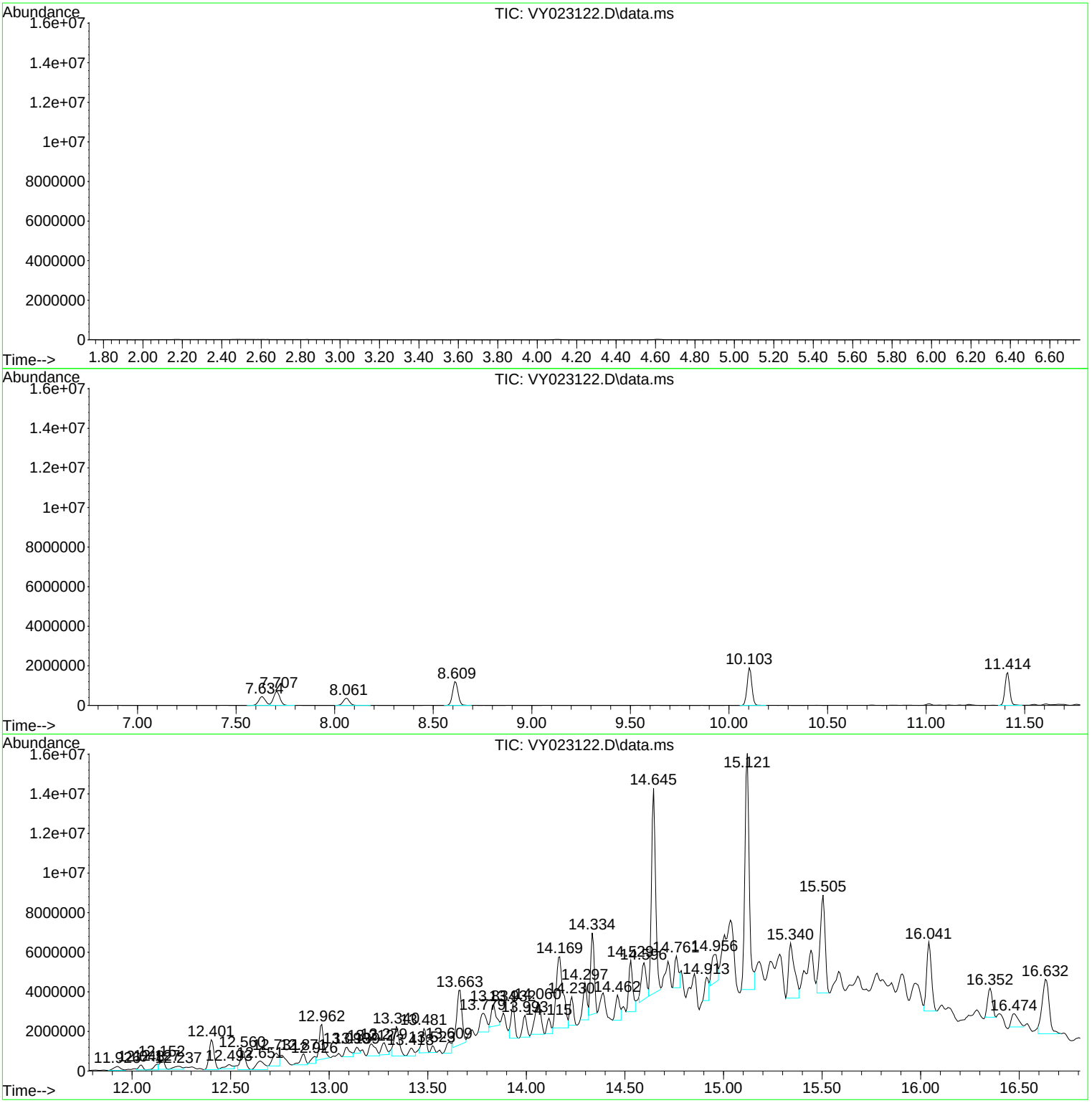
Sample Results: **VY023122.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

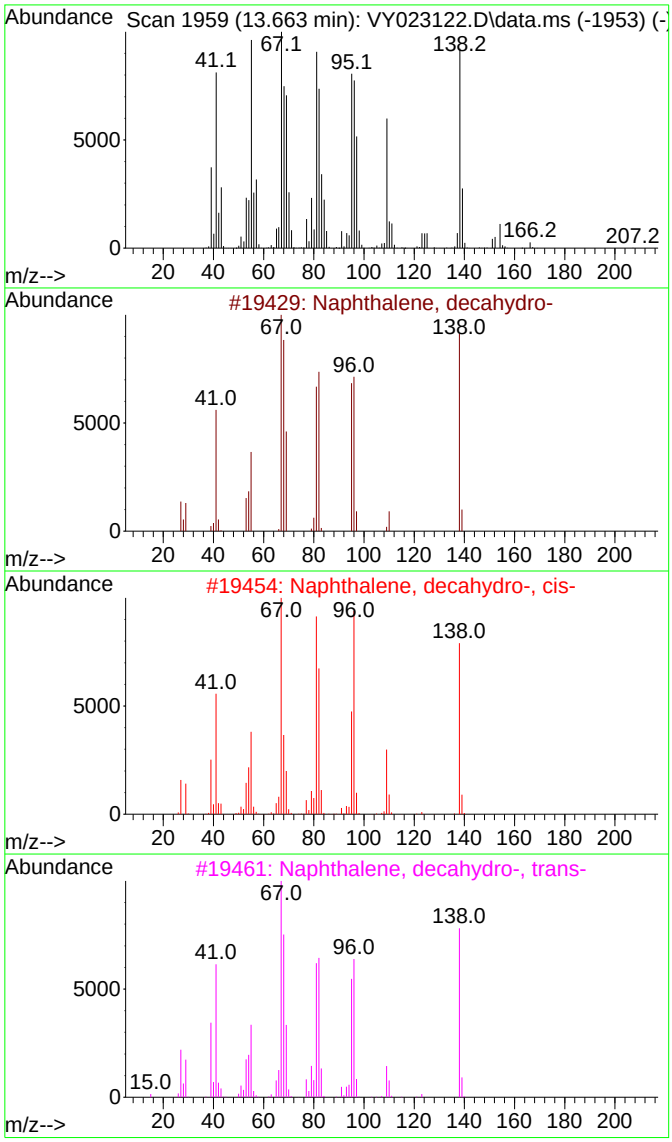
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

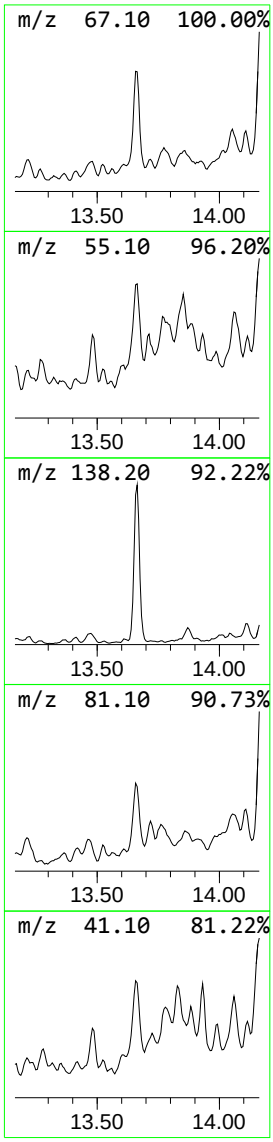
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Naphthalene, decahydro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.664	97.81 ug/l	5370200	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	93
2	Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	76
3	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	76
4	Spiro[4.5]decane	138	C10H18	000176-63-6	70
5	Cyclohexane, 1-methyl-4-(1-methy...	138	C10H18	001124-25-0	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

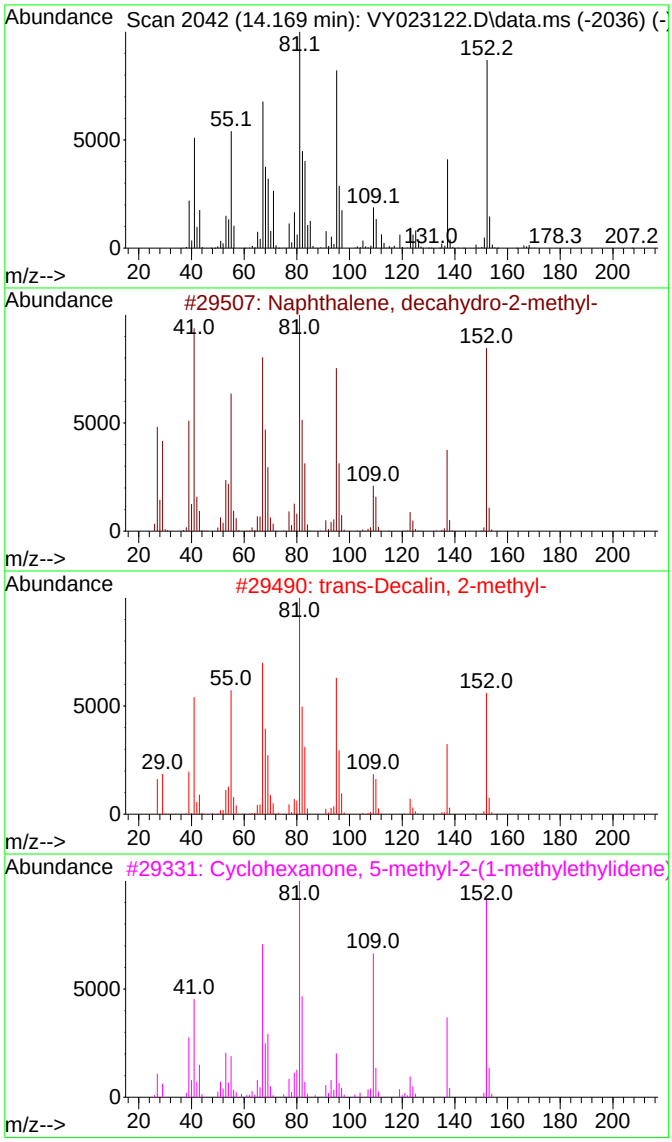
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

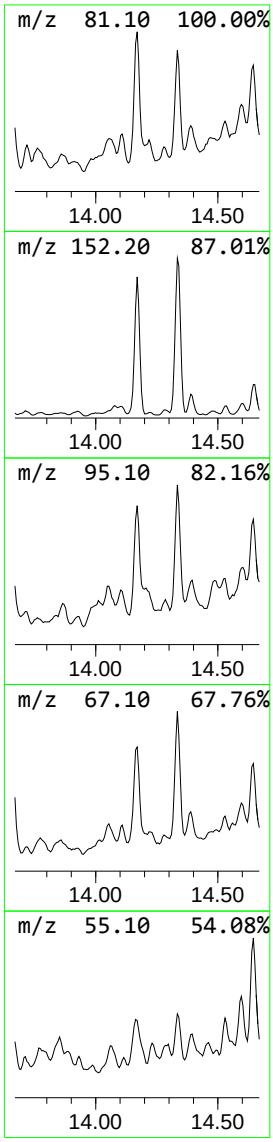
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Naphthalene, decahydro-2-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	159.62 ug/l	8763410	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	96
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	94
3	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	86
4	Pulegone	152	C10H16O	000089-82-7	70
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

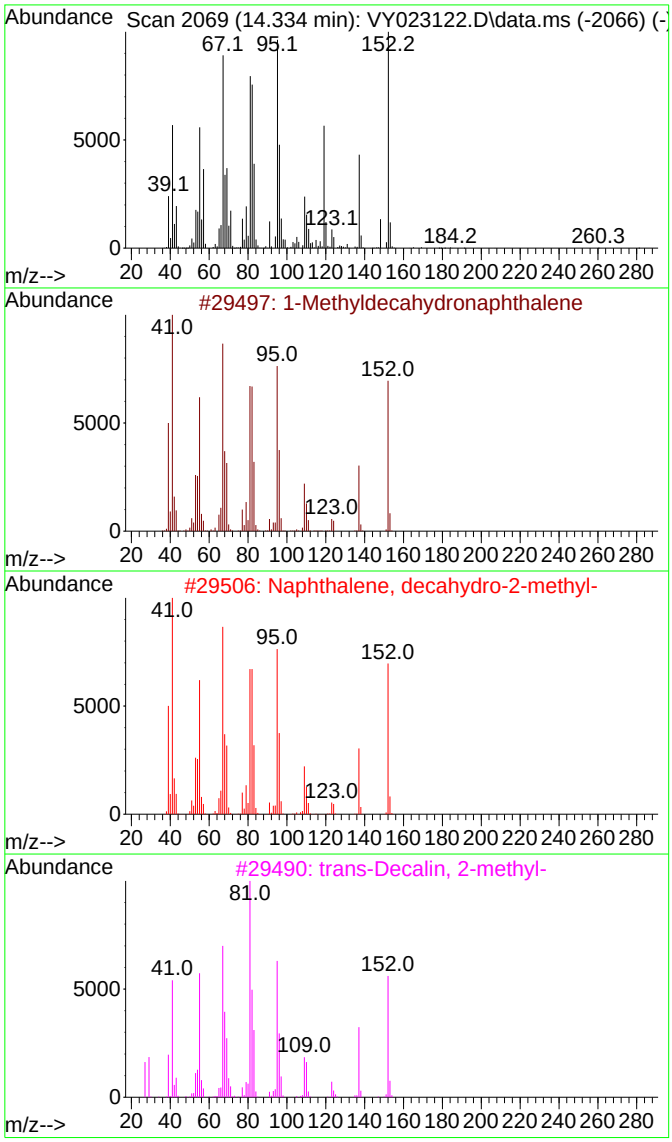
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

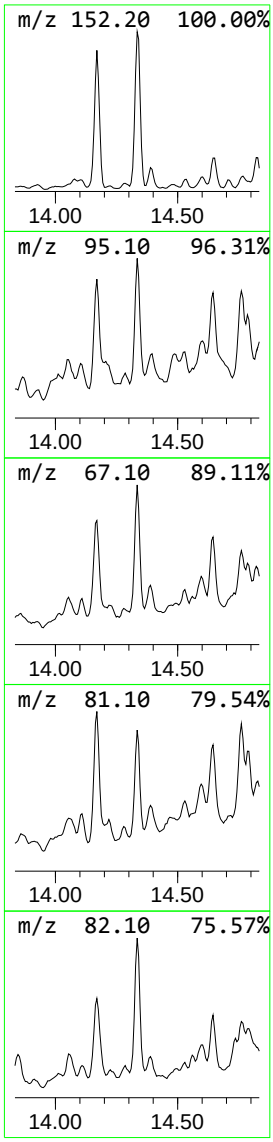
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 1-Methyldecahydronaphthalene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.334	97.38 ug/l	5346630	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	96
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	96
3	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	93
4	Bicyclo[2.2.1]heptane, 1,3,3-tri...	138	C10H18	006248-88-0	60
5	8-Dodecen-1-ol, (Z)-	184	C12H24O	040642-40-8	60





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

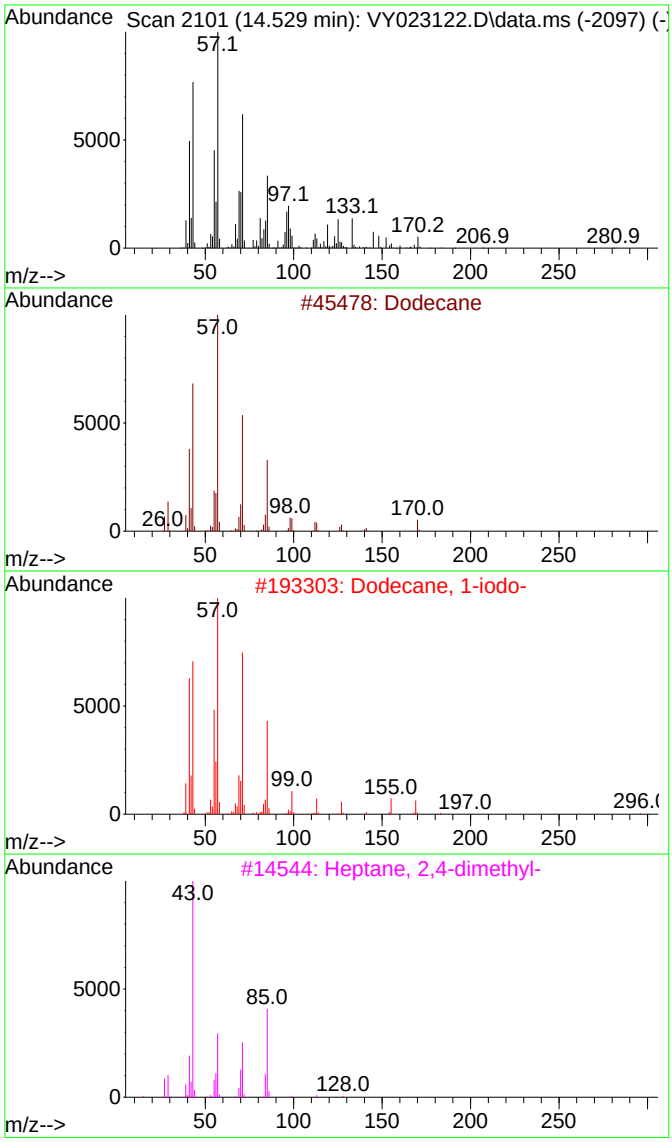
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

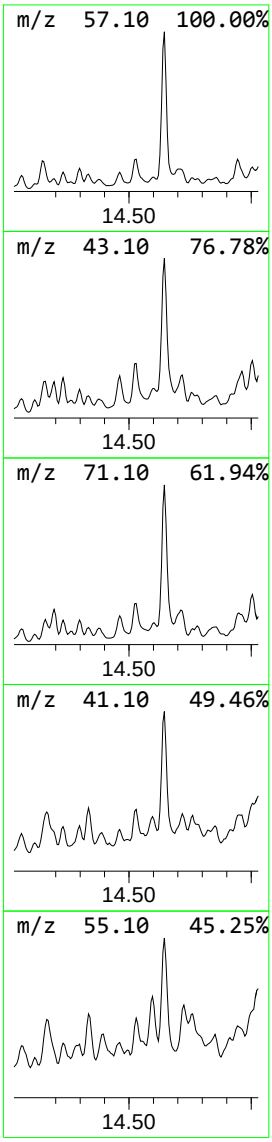
****

Peak Number 4 Dodecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	68.38 ug/l	3753960	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	90
2	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	38
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	38
4	Tetradecane	198	C14H30	000629-59-4	35
5	3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	35





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

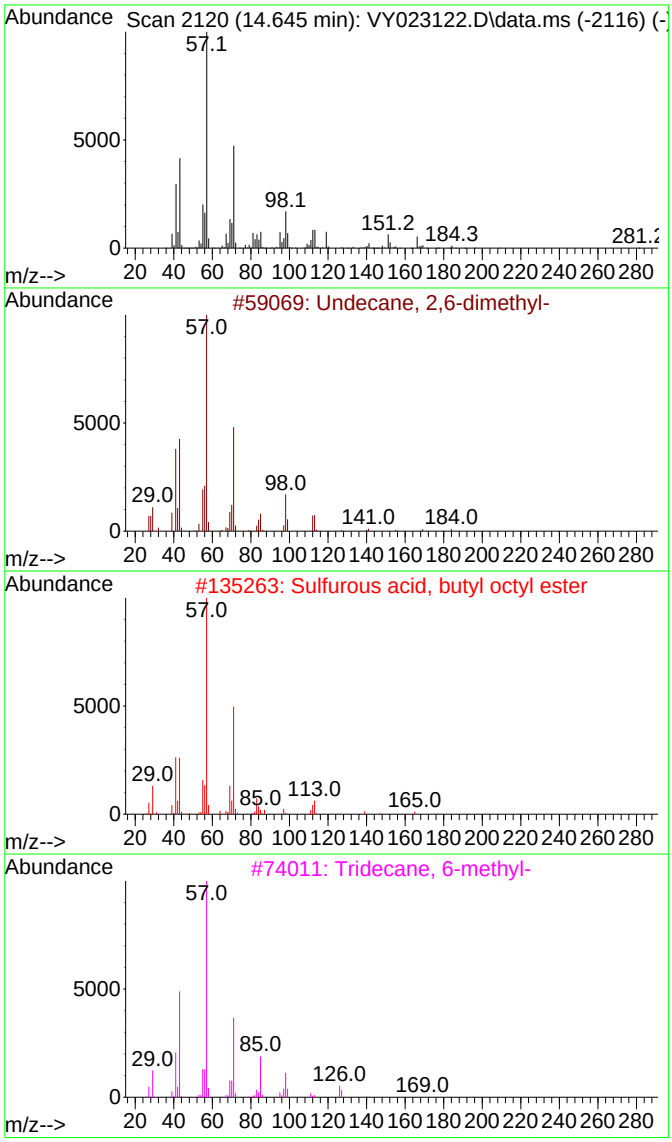
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

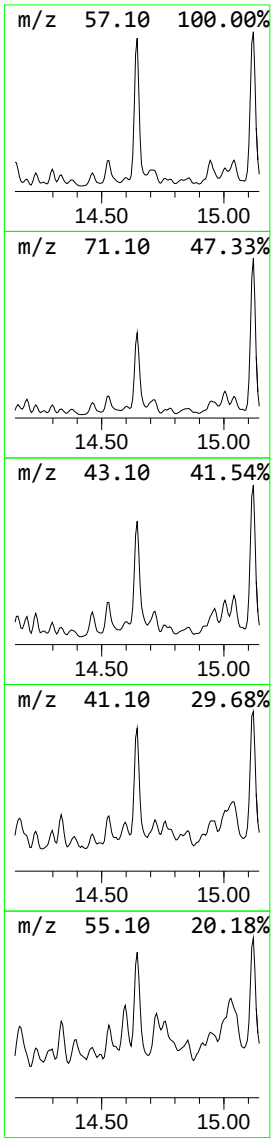
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Undecane, 2,6-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	271.24 ug/l	14891500	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	95
2	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	53
3	Tridecane, 6-methyl-	198	C14H30	013287-21-3	53
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	50
5	Tetratetracontane	619	C44H90	007098-22-8	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

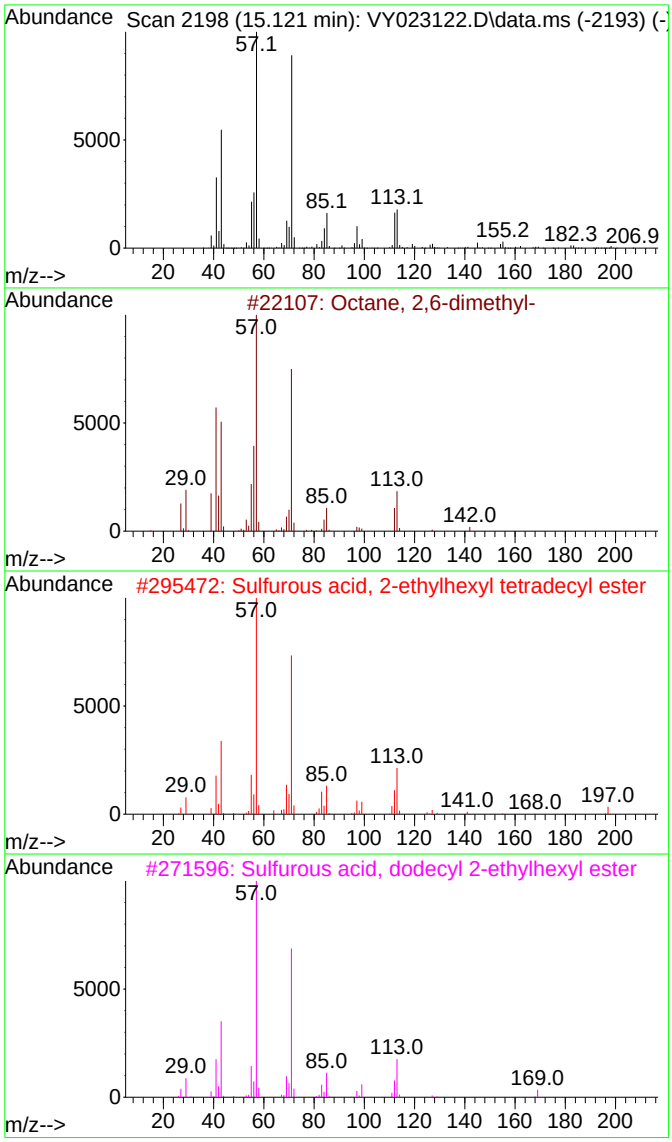
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

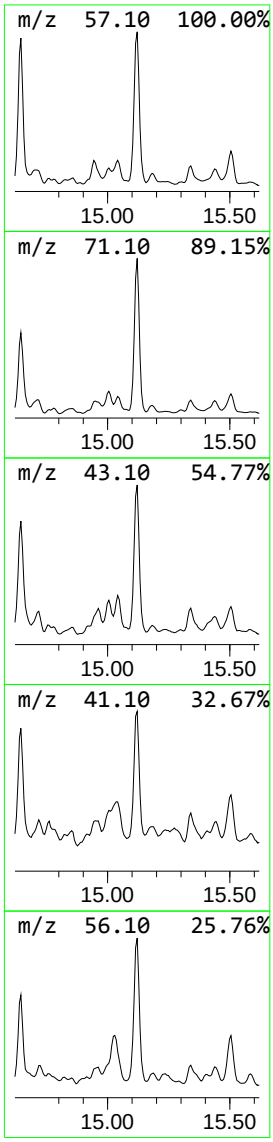
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Octane, 2,6-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	334.66 ug/l	18373600	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	90
2	Sulfurous acid, 2-ethylhexyl tet...	390	C22H46O3S	1000309-19-7	80
3	Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	72
4	Sulfurous acid, 2-ethylhexyl tri...	376	C21H44O3S	1000309-19-6	72
5	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

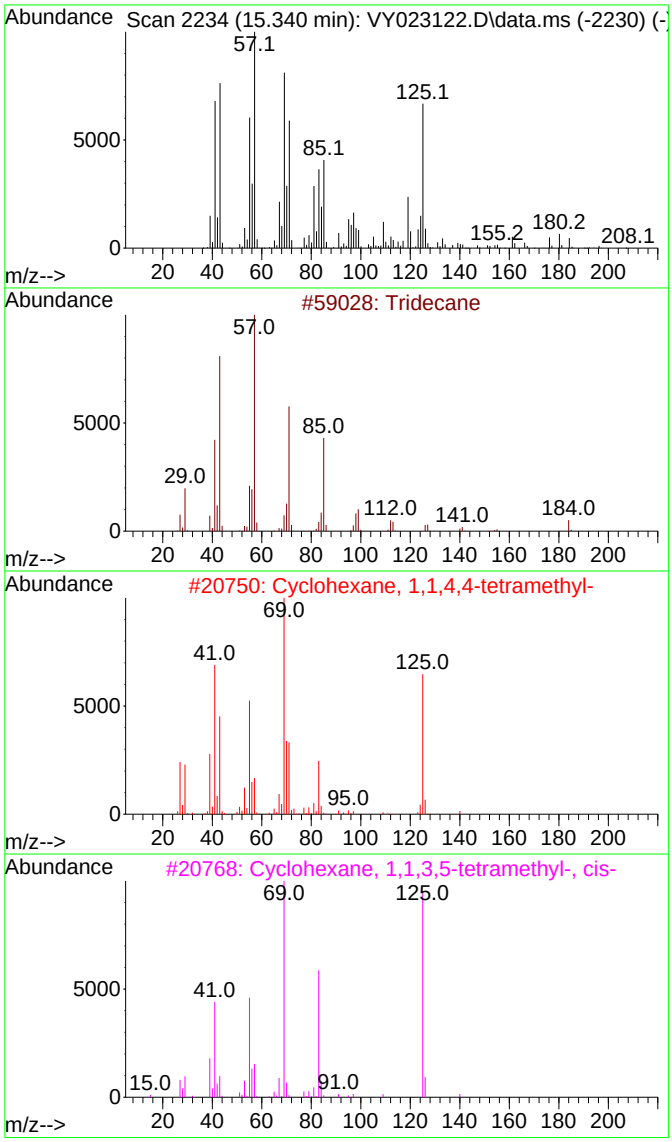
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

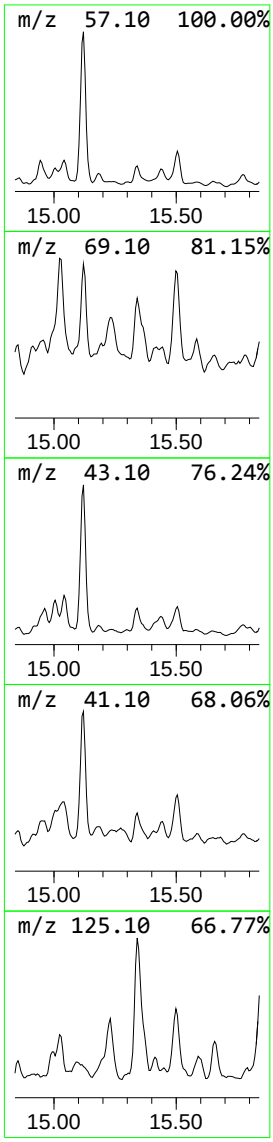
****

Peak Number 7 Tridecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.340	106.75 ug/l	5861010	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	64
2	Cyclohexane, 1,1,4,4-tetramethyl-	140	C10H20	002223-52-1	46
3	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-32-9	43
4	(1,2,4-Trimethylcyclohexyl)metha...	198	C12H22O2	1010499-04-6	38
5	2-Hexanone, 5-methyl-3-methylene-	126	C8H14O	001187-87-7	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

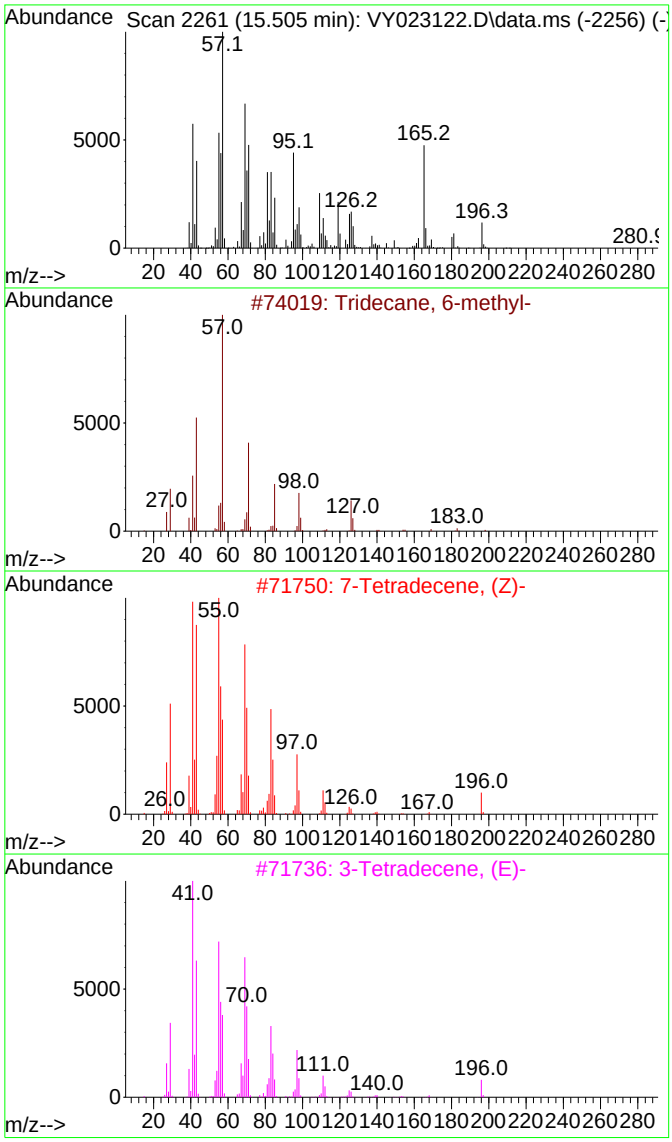
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

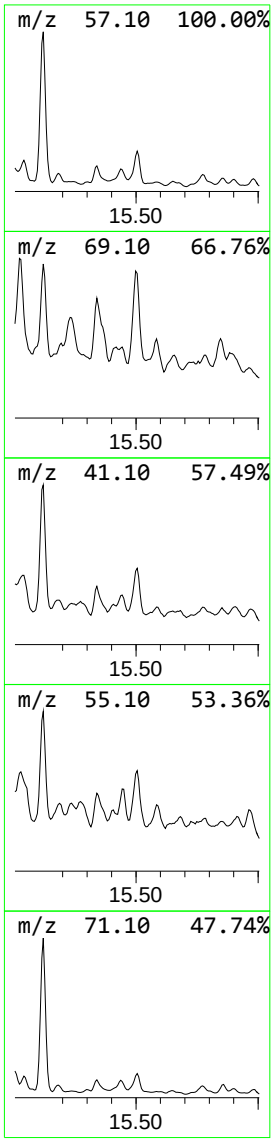
****

Peak Number 8 unknown15.505 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.505	158.24 ug/l	8687670	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 6-methyl-	198	C14H30	013287-21-3	35
2	7-Tetradecene, (Z)-	196	C14H28	041446-60-0	25
3	3-Tetradecene, (E)-	196	C14H28	041446-68-8	15
4	4-Tetradecene, (E)-	196	C14H28	041446-78-0	15
5	6-Tetradecene, (E)-	196	C14H28	041446-64-4	15





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Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

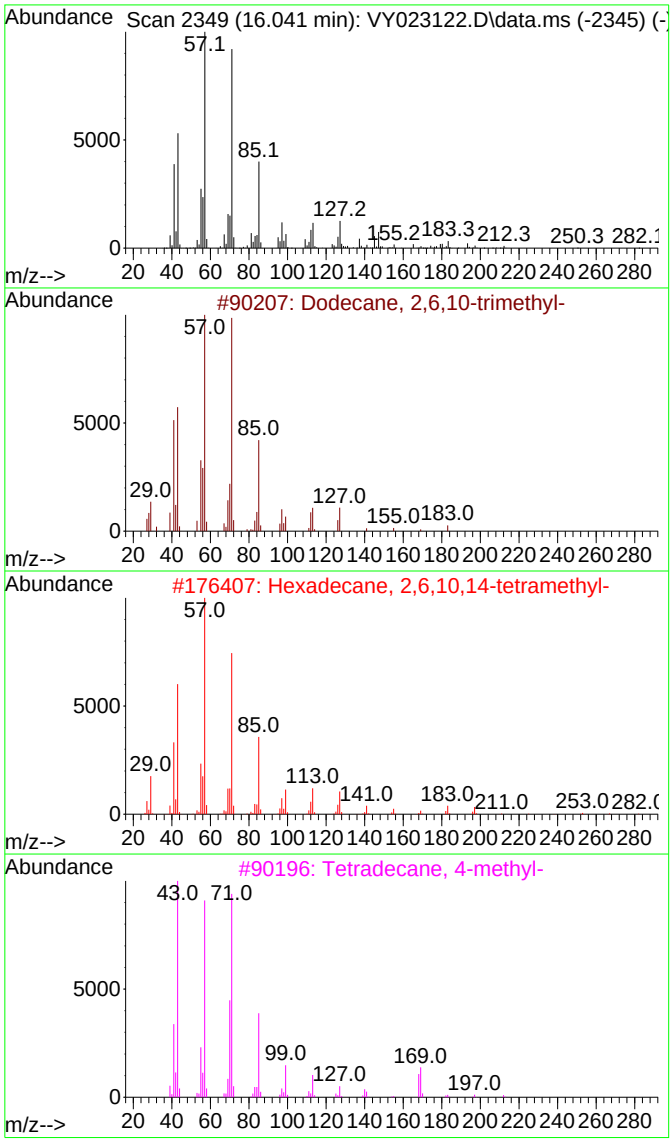
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

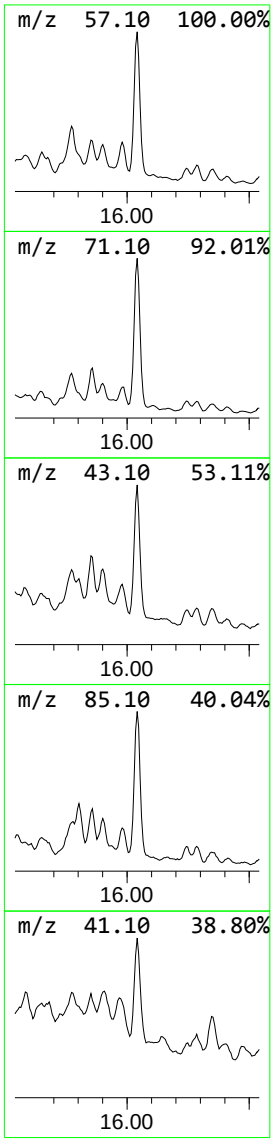
****

Peak Number 9 Dodecane, 2,6,10-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.041	106.69 ug/l	5857620	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	83
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	80
3	Tetradecane, 4-methyl-	212	C15H32	025117-24-2	80
4	Octane, 2-methyl-	128	C9H20	003221-61-2	74
5	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

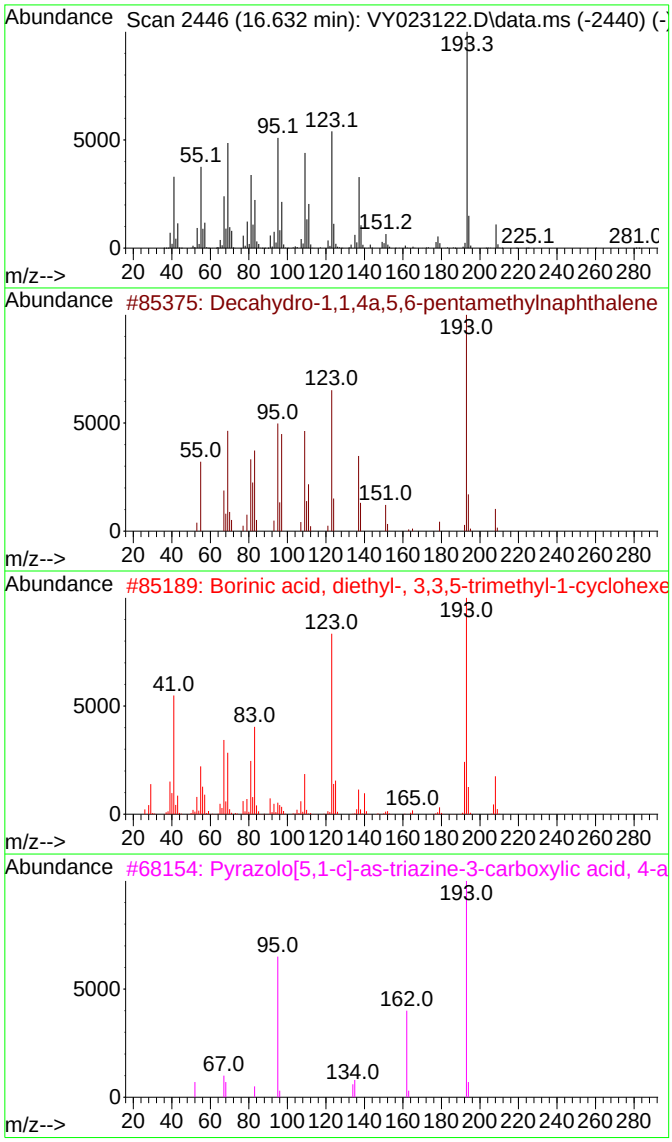
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

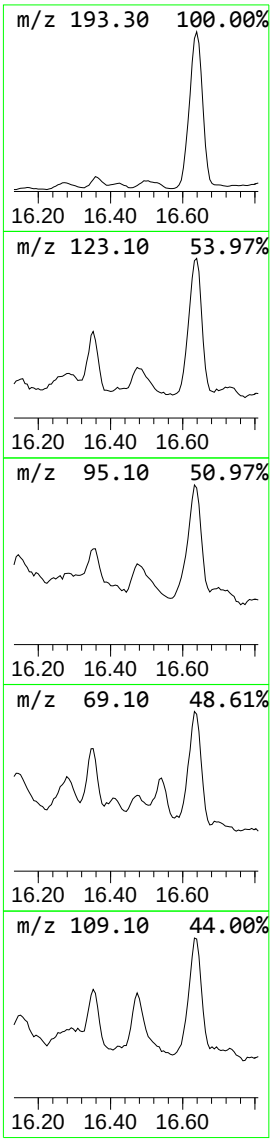
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Decahydro-1,1,4a,5,6-pentam... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.632	125.22 ug/l	6874700	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decahydro-1,1,4a,5,6-pentamethyl...	208	C15H28	080655-44-3	87
2	Borinic acid, diethyl-, 3,3,5-tr...	208	C13H25BO	057387-76-5	42
3	Pyrazolo[5,1-c]-as-triazine-3-ca...	193	C6H7N7O	016111-78-7	35
4	2,6-Naphthalenedione, octahydro-...	208	C13H20O2	057289-17-5	30
5	Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000500-00-5	25





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023122.D
Acq On : 15 Aug 2025 13:28
Operator : SY/MD
Sample : Q2820-24
Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
22M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, de...	13.664	97.8	ug/l	5370200	4	13.340	2745110	50.0
Naphthalene, de...	14.169	159.6	ug/l	8763410	4	13.340	2745110	50.0
1-Methyldecahyd...	14.334	97.4	ug/l	5346630	4	13.340	2745110	50.0
Dodecane	14.529	68.4	ug/l	3753960	4	13.340	2745110	50.0
Undecane, 2,6-d...	14.645	271.2	ug/l	14891500	4	13.340	2745110	50.0
Octane, 2,6-dim...	15.121	334.7	ug/l	18373600	4	13.340	2745110	50.0
Tridecane	15.340	106.8	ug/l	5861010	4	13.340	2745110	50.0
unknown15.505	15.505	158.2	ug/l	8687670	4	13.340	2745110	50.0
Dodecane, 2,6,1...	16.041	106.7	ug/l	5857620	4	13.340	2745110	50.0
Decahydro-1,1,4...	16.632	125.2	ug/l	6874700	4	13.340	2745110	50.0

CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2820

Instrument ID: MSVOA_W Calibration Date(s): 08/11/2025 08/11/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:25 11:08

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW032052.D RRF010 = VW032053.D RRF020 = VW032054.D
RRF050 = VW032055.D RRF100 = VW032056.D RRF150 = VW032057.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.399	0.383	0.385	0.336	0.317	0.325	0.358	9.9
Chloromethane	0.549	0.482	0.501	0.438	0.452	0.469	0.482	8.2
Vinyl Chloride	0.622	0.621	0.646	0.530	0.540	0.537	0.583	9
Bromomethane	0.482	0.452	0.462	0.411	0.413	0.403	0.437	7.5
Chloroethane	0.409	0.389	0.408	0.367	0.373	0.368	0.386	5
Trichlorofluoromethane	0.545	0.436	0.439	0.464	0.413	0.504	0.467	10.6
1,1,2-Trichlorotrifluoroethane	0.616	0.566	0.588	0.517	0.507	0.510	0.551	8.4
1,1-Dichloroethene	0.650	0.620	0.649	0.575	0.568	0.577	0.606	6.3
Acetone	0.203	0.181	0.151	0.163	0.148	0.157	0.167	12.6
Carbon Disulfide	1.694	1.616	1.727	1.557	1.567	1.605	1.628	4.2
Methyl tert-butyl Ether	1.022	1.063	1.085	1.102	1.070	1.068	1.068	2.5
Methyl Acetate	0.485	0.604	0.491	0.555	0.494	0.551	0.530	9
Methylene Chloride	1.043	0.787	0.840	0.681	0.644	0.649	0.774	19.9
trans-1,2-Dichloroethene	0.650	0.641	0.673	0.627	0.636	0.634	0.644	2.6
1,1-Dichloroethane	1.193	1.200	1.249	1.157	1.173	1.161	1.189	2.9
Cyclohexane	1.170	1.080	1.073	0.961	0.941	0.958	1.031	8.9
2-Butanone	0.233	0.241	0.217	0.255	0.233	0.249	0.238	5.7
Carbon Tetrachloride	0.441	0.440	0.451	0.448	0.426	0.430	0.439	2.2
cis-1,2-Dichloroethene	0.711	0.736	0.772	0.749	0.775	0.769	0.752	3.3
Bromochloromethane	0.561	0.542	0.549	0.543	0.521	0.529	0.541	2.6
Chloroform	1.267	1.269	1.324	1.235	1.243	1.223	1.260	2.9
1,1,1-Trichloroethane	0.960	0.949	0.965	0.872	0.869	0.878	0.915	5.1
Methylcyclohexane	0.525	0.540	0.568	0.578	0.540	0.578	0.555	4.1
Benzene	1.399	1.423	1.439	1.469	1.365	1.398	1.415	2.6
1,2-Dichloroethane	0.461	0.467	0.458	0.466	0.429	0.436	0.453	3.6
Trichloroethene	0.353	0.334	0.342	0.339	0.319	0.335	0.337	3.3
1,2-Dichloropropane	0.339	0.342	0.352	0.352	0.327	0.339	0.342	2.8
Bromodichloromethane	0.501	0.499	0.505	0.532	0.498	0.516	0.509	2.6
4-Methyl-2-Pentanone	0.265	0.284	0.258	0.312	0.265	0.287	0.279	7.3
Toluene	0.837	0.882	0.910	0.932	0.887	0.902	0.892	3.6

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

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2820

Instrument ID: MSVOA_W Calibration Date(s): 08/11/2025 08/11/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:25 11:08

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW032052.D RRF010 = VW032053.D RRF020 = VW032054.D
RRF050 = VW032055.D RRF100 = VW032056.D RRF150 = VW032057.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.430	0.450	0.464	0.515	0.483	0.517	0.476	7.4
cis-1,3-Dichloropropene	0.499	0.516	0.530	0.581	0.552	0.566	0.541	5.8
1,1,2-Trichloroethane	0.297	0.296	0.292	0.306	0.282	0.288	0.293	2.8
2-Hexanone	0.178	0.194	0.177	0.220	0.187	0.202	0.193	8.5
Dibromochloromethane	0.322	0.327	0.330	0.349	0.332	0.349	0.335	3.5
1,2-Dibromoethane	0.282	0.283	0.276	0.299	0.283	0.287	0.285	2.7
Tetrachloroethene	0.293	0.301	0.295	0.279	0.275	0.290	0.289	3.5
Chlorobenzene	1.112	1.116	1.098	1.068	1.043	1.093	1.088	2.6
Ethyl Benzene	1.714	1.806	1.921	1.870	1.830	1.921	1.843	4.3
m/p-Xylenes	0.645	0.707	0.754	0.731	0.702	0.730	0.711	5.3
o-Xylene	0.578	0.639	0.673	0.681	0.675	0.699	0.657	6.6
Styrene	1.004	1.135	1.226	1.211	1.181	1.249	1.168	7.7
Bromoform	0.186	0.189	0.184	0.206	0.188	0.212	0.194	6
Isopropylbenzene	2.910	3.454	3.525	3.657	3.595	3.825	3.494	9
1,1,2,2-Tetrachloroethane	0.803	0.871	0.769	0.872	0.794	0.870	0.830	5.6
1,3-Dichlorobenzene	1.546	1.721	1.684	1.752	1.583	1.679	1.661	4.8
1,4-Dichlorobenzene	1.653	1.733	1.739	1.673	1.625	1.646	1.678	2.8
1,2-Dichlorobenzene	1.455	1.558	1.490	1.528	1.450	1.544	1.504	3.1
1,2-Dibromo-3-Chloropropane	0.151	0.146	0.131	0.159	0.141	0.157	0.147	7.1
1,2,4-Trichlorobenzene	0.794	0.878	0.905	0.920	0.937	0.966	0.900	6.6
1,2,3-Trichlorobenzene	0.714	0.791	0.804	0.836	0.866	0.903	0.819	8
1,2-Dichloroethane-d4	0.746	0.748	0.720	0.716	0.712	0.697	0.723	2.7
Dibromofluoromethane	0.336	0.328	0.326	0.325	0.313	0.311	0.323	3
Toluene-d8	1.175	1.180	1.207	1.245	1.184	1.178	1.195	2.3
4-Bromofluorobenzene	0.428	0.431	0.444	0.460	0.438	0.441	0.440	2.6

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

Response Factor Report MSVOA_W

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W081125S.M
Title : SW846 8260
Last Update : Tue Aug 12 04:04:48 2025
Response Via : Initial Calibration

Calibration Files
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		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.399	0.383	0.385	0.336	0.317	0.325	0.358	9.94
3)	P	Chloromethane	0.549	0.482	0.501	0.438	0.452	0.469	0.482	8.23
4)	C	Vinyl Chloride	0.622	0.621	0.646	0.530	0.540	0.537	0.583	8.96#
5)	T	Bromomethane	0.482	0.452	0.462	0.411	0.413	0.403	0.437	7.45
6)	T	Chloroethane	0.409	0.389	0.408	0.367	0.373	0.368	0.386	5.01
7)	T	Trichlorofluor...	0.545	0.436	0.439	0.464	0.413	0.504	0.467	10.57
8)	T	Diethyl Ether	0.391	0.382	0.392	0.380	0.372	0.378	0.382	2.05
9)	T	1,1,2-Trichlor...	0.616	0.566	0.588	0.517	0.507	0.510	0.551	8.37
10)	T	Methyl Iodide	0.789	0.788	0.836	0.748	0.759	0.764	0.781	4.05
11)	T	Tert butyl alc...	0.047	0.048	0.042	0.050	0.045	0.049	0.047	6.50
12)	CM	1,1-Dichloroet...	0.650	0.620	0.649	0.575	0.568	0.577	0.606	6.31#
13)	T	Acrolein	0.087	0.083	0.073	0.071	0.067	0.067	0.075	11.40
14)	T	Allyl chloride	0.887	0.868	0.918	0.862	0.870	0.891	0.883	2.35
15)	T	Acrylonitrile	0.180	0.189	0.170	0.192	0.175	0.187	0.182	4.66
16)	T	Acetone	0.203	0.181	0.151	0.163	0.148	0.157	0.167	12.57
17)	T	Carbon Disulfide	1.694	1.616	1.727	1.557	1.567	1.605	1.628	4.23
18)	T	Methyl Acetate	0.485	0.604	0.491	0.555	0.494	0.551	0.530	8.98
19)	T	Methyl tert-bu...	1.022	1.063	1.085	1.102	1.070	1.068	1.068	2.49
20)	T	Methylene Chlo...	1.043	0.787	0.840	0.681	0.644	0.649	0.774	19.85
21)	T	trans-1,2-Dich...	0.650	0.641	0.673	0.627	0.636	0.634	0.644	2.55
22)	T	Diisopropyl ether	1.724	1.866	1.939	1.888	1.874	1.871	1.860	3.87
23)	T	Vinyl Acetate	1.104	1.150	1.217	1.299	1.266	1.293	1.222	6.56
24)	P	1,1-Dichloroet...	1.193	1.200	1.249	1.157	1.173	1.161	1.189	2.88
25)	T	2-Butanone	0.233	0.241	0.217	0.255	0.233	0.249	0.238	5.68
26)	T	2,2-Dichloropr...	0.635	0.610	0.606	0.579	0.563	0.585	0.596	4.32
27)	T	cis-1,2-Dichlo...	0.711	0.736	0.772	0.749	0.775	0.769	0.752	3.35
28)	T	Bromochloromet...	0.561	0.542	0.549	0.543	0.521	0.529	0.541	2.63
29)	T	Tetrahydrofuran	0.150	0.159	0.145	0.171	0.153	0.163	0.157	5.96
30)	C	Chloroform	1.267	1.269	1.324	1.235	1.243	1.223	1.260	2.87#
31)	T	Cyclohexane	1.170	1.080	1.073	0.961	0.941	0.958	1.031	8.88
32)	T	1,1,1-Trichlor...	0.960	0.949	0.965	0.872	0.869	0.878	0.915	5.14
33)	S	1,2-Dichloroet...	0.746	0.748	0.720	0.716	0.712	0.697	0.723	2.75
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.336	0.328	0.326	0.325	0.313	0.311	0.323	2.97
36)	T	1,1-Dichloropr...	0.458	0.457	0.472	0.467	0.439	0.439	0.455	3.00
37)	T	Ethyl Acetate	0.268	0.270	0.241	0.294	0.261	0.276	0.268	6.54
38)	T	Carbon Tetrach...	0.441	0.440	0.451	0.448	0.426	0.430	0.439	2.21
39)	T	Methylcyclohexane	0.525	0.540	0.568	0.578	0.540	0.578	0.555	4.12
40)	TM	Benzene	1.399	1.423	1.439	1.469	1.365	1.398	1.415	2.56
41)	T	Methacrylonitrile	0.139	0.137	0.146	0.167	0.160	0.162	0.152	8.40
42)	TM	1,2-Dichloroet...	0.461	0.467	0.458	0.466	0.429	0.436	0.453	3.59
43)	T	Isopropyl Acetate	0.469	0.481	0.460	0.538	0.486	0.526	0.493	6.37
44)	TM	Trichloroethene	0.353	0.334	0.342	0.339	0.319	0.335	0.337	3.34
45)	C	1,2-Dichloropr...	0.339	0.342	0.352	0.352	0.327	0.339	0.342	2.77#
46)	T	Dibromomethane	0.230	0.219	0.219	0.229	0.209	0.219	0.221	3.39
47)	T	Bromodichlorom...	0.501	0.499	0.505	0.532	0.498	0.516	0.509	2.60
48)	T	Methyl methacr...	0.211	0.230	0.223	0.266	0.238	0.261	0.238	9.10
49)	T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	9.50
50)	S	Toluene-d8	1.175	1.180	1.207	1.245	1.184	1.178	1.195	2.28
51)	T	4-Methyl-2-Pen...	0.265	0.284	0.258	0.312	0.265	0.287	0.279	7.26
52)	CM	Toluene	0.837	0.882	0.910	0.932	0.887	0.902	0.892	3.63#
53)	T	t-1,3-Dichloro...	0.430	0.450	0.464	0.515	0.483	0.517	0.476	7.39
54)	T	cis-1,3-Dichlo...	0.499	0.516	0.530	0.581	0.552	0.566	0.541	5.78
55)	T	1,1,2-Trichlor...	0.297	0.296	0.292	0.306	0.282	0.288	0.293	2.78
56)	T	Ethyl methacry...	0.339	0.363	0.366	0.440	0.410	0.437	0.392	10.78

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W081125S.M

57)	T	1,3-Dichloropr...	0.510	0.524	0.506	0.533	0.486	0.509	0.511	3.15
58)	T	2-Chloroethyl ...	0.198	0.208	0.206	0.241	0.223	0.227	0.217	7.42
59)	T	2-Hexanone	0.178	0.194	0.177	0.220	0.187	0.202	0.193	8.48
60)	T	Dibromochlorom...	0.322	0.327	0.330	0.349	0.332	0.349	0.335	3.49
61)	T	1,2-Dibromoethane	0.282	0.283	0.276	0.299	0.283	0.287	0.285	2.67
62)	S	4-Bromofluorob...	0.428	0.431	0.444	0.460	0.438	0.441	0.440	2.60
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.293	0.301	0.295	0.279	0.275	0.290	0.289	3.46
65)	PM	Chlorobenzene	1.112	1.116	1.097	1.068	1.043	1.093	1.088	2.58
66)	T	1,1,1,2-Tetrac...	0.333	0.341	0.342	0.339	0.327	0.355	0.340	2.85
67)	C	Ethyl Benzene	1.714	1.806	1.921	1.870	1.830	1.921	1.843	4.27#
68)	T	m/p-Xylenes	0.645	0.707	0.754	0.731	0.702	0.730	0.711	5.25
69)	T	o-Xylene	0.578	0.639	0.673	0.681	0.675	0.699	0.657	6.65
70)	T	Styrene	1.004	1.135	1.226	1.211	1.181	1.249	1.168	7.65
71)	P	Bromoform	0.186	0.189	0.184	0.206	0.188	0.212	0.194	6.05
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	2.910	3.454	3.525	3.657	3.595	3.825	3.494	8.96
74)	T	N-amyl acetate	0.829	0.983	0.903	1.113	1.048	1.140	1.003	12.11
75)	P	1,1,2,2-Tetrac...	0.803	0.871	0.769	0.872	0.794	0.870	0.830	5.62
76)	T	1,2,3-Trichlor...	0.702	0.703	0.672	0.769	0.578	0.648	0.679	9.43
77)	T	Bromobenzene	0.746	0.873	0.802	0.873	0.860	0.852	0.835	6.07
78)	T	n-propylbenzene	3.663	4.310	4.404	4.500	4.396	4.539	4.302	7.52
79)	T	2-Chlorotoluene	2.380	2.674	2.664	2.741	2.695	2.776	2.655	5.31
80)	T	1,3,5-Trimethy...	2.519	2.982	3.000	3.103	3.023	3.172	2.967	7.77
81)	T	trans-1,4-Dich...	0.230	0.246	0.229	0.289	0.274	0.305	0.262	12.22
82)	T	4-Chlorotoluene	2.579	2.850	2.857	2.905	2.804	2.931	2.821	4.49
83)	T	tert-Butylbenzene	2.031	2.395	2.537	2.583	2.550	2.675	2.462	9.34
84)	T	1,2,4-Trimethy...	2.533	3.053	3.137	3.198	3.013	3.185	3.020	8.25
85)	T	sec-Butylbenzene	3.263	3.631	3.824	3.858	3.796	3.961	3.722	6.70
86)	T	p-Isopropyltol...	2.637	3.049	3.202	3.295	3.123	3.313	3.103	8.03
87)	T	1,3-Dichlorobe...	1.546	1.721	1.684	1.752	1.583	1.679	1.661	4.83
88)	T	1,4-Dichlorobe...	1.653	1.733	1.739	1.673	1.625	1.646	1.678	2.83
89)	T	n-Butylbenzene	2.606	2.979	3.064	3.181	3.052	3.206	3.015	7.21
90)	T	Hexachloroethane	0.527	0.556	0.565	0.567	0.567	0.624	0.568	5.55
91)	T	1,2-Dichlorobe...	1.455	1.558	1.490	1.528	1.450	1.544	1.504	3.07
92)	T	1,2-Dibromo-3-...	0.151	0.146	0.131	0.159	0.141	0.157	0.147	7.12
93)	T	1,2,4-Trichlor...	0.794	0.878	0.905	0.920	0.937	0.966	0.900	6.63
94)	T	Hexachlorobuta...	0.412	0.413	0.397	0.385	0.383	0.424	0.402	4.10
95)	T	Naphthalene	1.760	2.104	2.001	2.430	2.327	2.608	2.205	14.02
96)	T	1,2,3-Trichlor...	0.714	0.791	0.804	0.836	0.866	0.903	0.819	8.04

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	225574	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	424617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	391234	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	196943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	16827	5.158	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 10.320%#			
35) Dibromofluoromethane	7.898	113	14278	5.205	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 10.400%#			
50) Toluene-d8	10.331	98	49876	4.916	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	12.617	95	18184	4.863	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 9.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	9007	5.583	ug/l	100
3) Chloromethane	2.253	50	12377	5.695	ug/l	95
4) Vinyl Chloride	2.399	62	14029	5.337	ug/l	91
5) Bromomethane	2.826	94	10878	5.516	ug/l	95
6) Chloroethane	2.966	64	9219	5.300	ug/l	98
7) Trichlorofluoromethane	3.302	101	12298	5.840	ug/l	94
8) Diethyl Ether	3.716	74	8824	5.114	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	13903	5.596	ug/l	94
10) Methyl Iodide	4.301	142	17789	5.050	ug/l	99
11) Tert butyl alcohol	5.222	59	5328	25.221	ug/l	94
12) 1,1-Dichloroethene	4.076	96	14655	5.357	ug/l	94
13) Acrolein	3.929	56	9831	29.207	ug/l	89
14) Allyl chloride	4.698	41	19999	5.023	ug/l	98
15) Acrylonitrile	5.399	53	20340	24.751	ug/l	99
16) Acetone	4.161	43	22915	30.337	ug/l	99
17) Carbon Disulfide	4.417	76	38213	5.204	ug/l	96
18) Methyl Acetate	4.704	43	10943	4.578	ug/l #	76
19) Methyl tert-butyl Ether	5.460	73	23062	4.785	ug/l	99
20) Methylene Chloride	4.954	84	23529	6.737	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	14671	5.053	ug/l	93
22) Diisopropyl ether	6.338	45	38895	4.634	ug/l	94
23) Vinyl Acetate	6.283	43	124477	22.588	ug/l	98
24) 1,1-Dichloroethane	6.246	63	26909	5.018	ug/l	99
25) 2-Butanone	7.197	43	26284	24.484	ug/l	100
26) 2,2-Dichloropropane	7.185	77	14330	5.326	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	16041	4.727	ug/l	98
28) Bromochloromethane	7.526	49	12660	5.188	ug/l	98
29) Tetrahydrofuran	7.551	42	16965	23.963	ug/l	96
30) Chloroform	7.691	83	28586	5.028	ug/l	99
31) Cyclohexane	7.959	56	26393	5.677	ug/l #	83
32) 1,1,1-Trichloroethane	7.880	97	21662	5.246	ug/l	96
36) 1,1-Dichloropropene	8.099	75	19468	5.034	ug/l	99
37) Ethyl Acetate	7.276	43	11365	4.990	ug/l	99
38) Carbon Tetrachloride	8.081	117	18734	5.020	ug/l	92
39) Methylcyclohexane	9.337	83	22284	4.728	ug/l	94
40) Benzene	8.331	78	59395	4.941	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.496	41	5910	4.576 ug/l #	95
42) 1,2-Dichloroethane	8.410	62	19560	5.085 ug/l	99
43) Isopropyl Acetate	8.435	43	19928	4.756 ug/l	98
44) Trichloroethene	9.093	130	14999	5.240 ug/l	93
45) 1,2-Dichloropropane	9.374	63	14387	4.954 ug/l	98
46) Dibromomethane	9.465	93	9753	5.204 ug/l	97
47) Bromodichloromethane	9.648	83	21279	4.927 ug/l	100
48) Methyl methacrylate	9.441	41	8949	4.424 ug/l	97
49) 1,4-Dioxane	9.465	88	2259	93.217 ug/l #	85
51) 4-Methyl-2-Pentanone	10.215	43	56184	23.755 ug/l	98
52) Toluene	10.386	92	35525	4.692 ug/l	96
53) t-1,3-Dichloropropene	10.611	75	18259	4.513 ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	21173	4.612 ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	12594	5.057 ug/l	95
56) Ethyl methacrylate	10.648	69	14387	4.317 ug/l	95
57) 1,3-Dichloropropane	10.934	76	21654	4.988 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	41991	22.777 ug/l	98
59) 2-Hexanone	10.971	43	37796	23.074 ug/l	95
60) Dibromochloromethane	11.129	129	13654	4.799 ug/l	98
61) 1,2-Dibromoethane	11.239	107	11992	4.955 ug/l	100
64) Tetrachloroethene	10.861	164	11449	5.066 ug/l	93
65) Chlorobenzene	11.654	112	43515	5.110 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.733	131	13037	4.907 ug/l	98
67) Ethyl Benzene	11.727	91	67071	4.650 ug/l	97
68) m/p-Xylenes	11.837	106	50482	9.070 ug/l	96
69) o-Xylene	12.166	106	22602	4.393 ug/l	97
70) Styrene	12.178	104	39288	4.300 ug/l	98
71) Bromoform	12.349	173	7283	4.792 ug/l #	95
73) Isopropylbenzene	12.458	105	57306	4.164 ug/l	98
74) N-amyl acetate	12.269	43	16327	4.135 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.708	83	15805	4.836 ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	13829m	4.568 ug/l	
77) Bromobenzene	12.745	156	14698	4.471 ug/l	97
78) n-propylbenzene	12.800	91	72140	4.257 ug/l	99
79) 2-Chlorotoluene	12.885	91	46879	4.483 ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	49607	4.245 ug/l	97
81) trans-1,4-Dichloro-2-b...	12.513	75	4520	4.378 ug/l	92
82) 4-Chlorotoluene	12.983	91	50782	4.570 ug/l	100
83) tert-Butylbenzene	13.202	119	39993	4.124 ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	49891	4.194 ug/l	100
85) sec-Butylbenzene	13.379	105	64254	4.382 ug/l	98
86) p-Isopropyltoluene	13.495	119	51939	4.249 ug/l	97
87) 1,3-Dichlorobenzene	13.495	146	30445	4.654 ug/l	94
88) 1,4-Dichlorobenzene	13.574	146	32554	4.925 ug/l	95
89) n-Butylbenzene	13.818	91	51328	4.323 ug/l	99
90) Hexachloroethane	14.086	117	10372	4.640 ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	28653	4.836 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	2976	5.123 ug/l	93
93) 1,2,4-Trichlorobenzene	15.123	180	15646	4.414 ug/l	99
94) Hexachlorobutadiene	15.226	225	8109	5.118 ug/l	98
95) Naphthalene	15.360	128	34667	3.991 ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	14053	4.357 ug/l	92

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

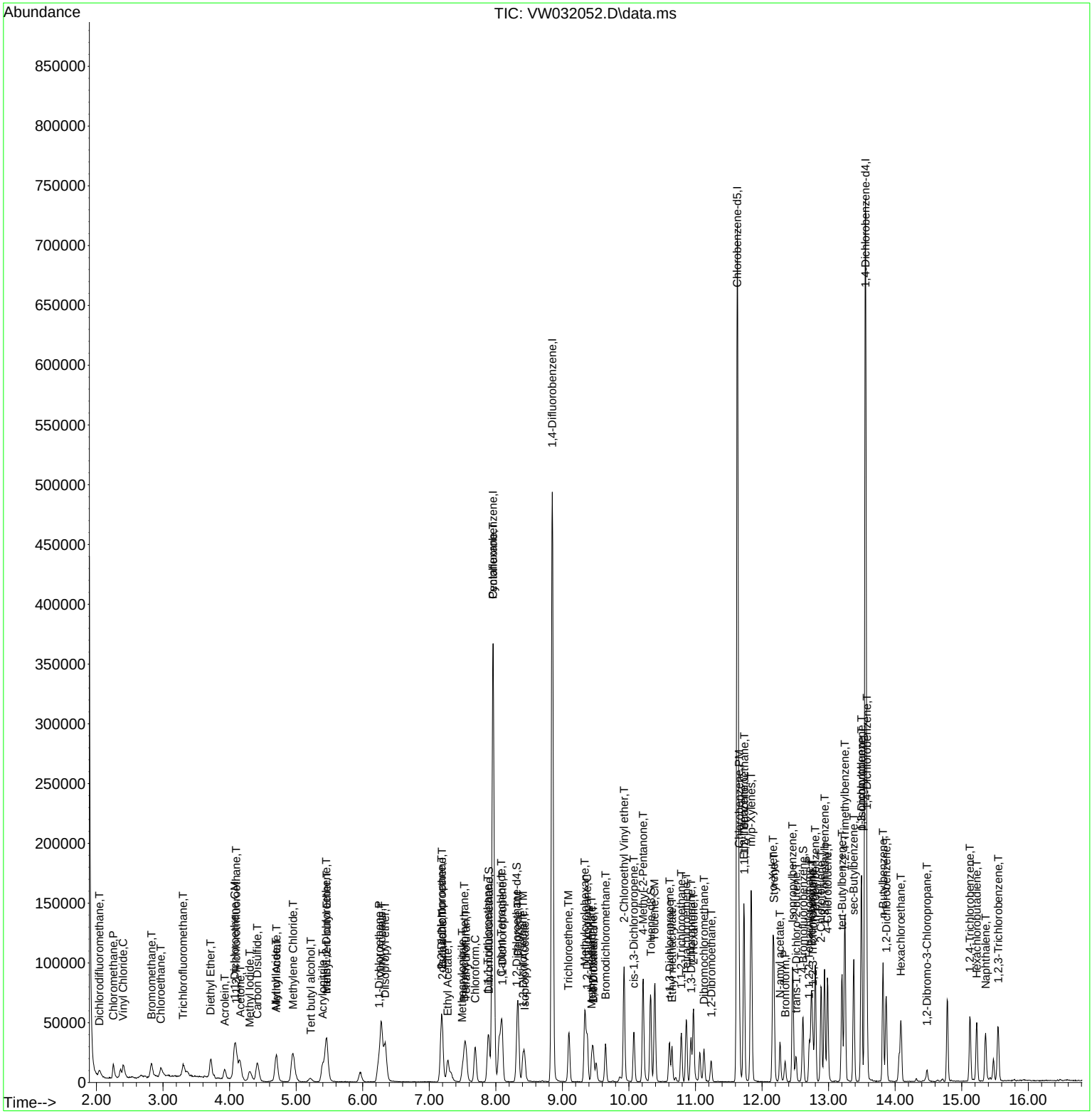
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

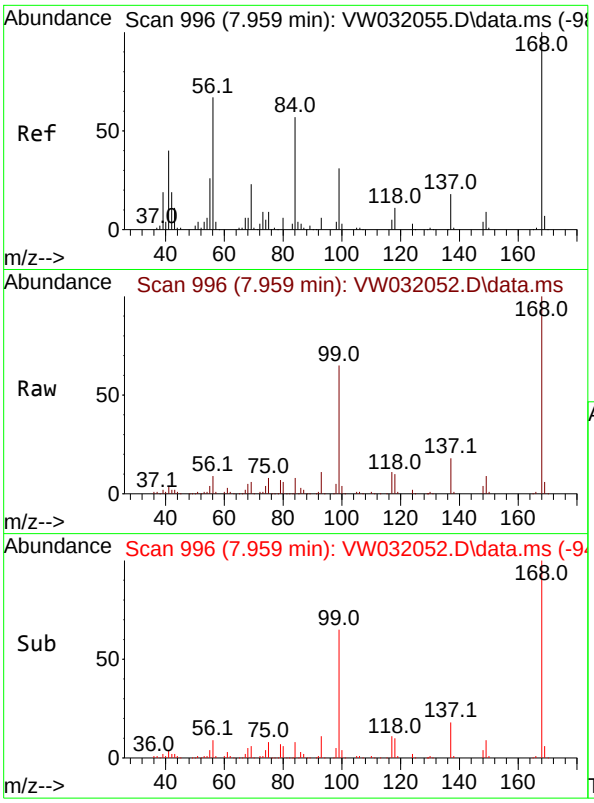
Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

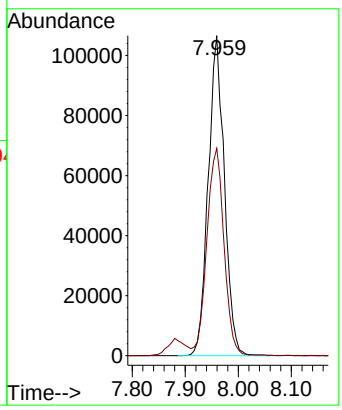




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:168 Resp: 22557

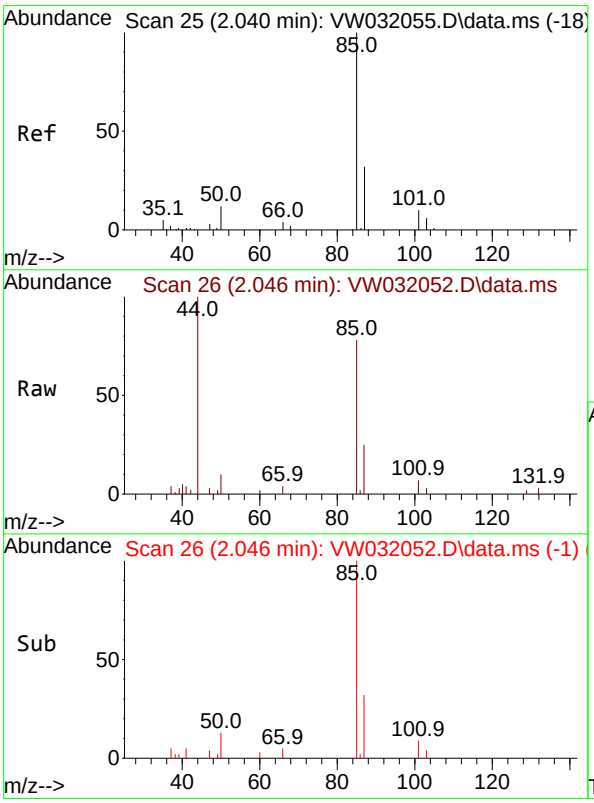
Ion	Ratio	Lower	Upper
168	100		
99	64.7	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

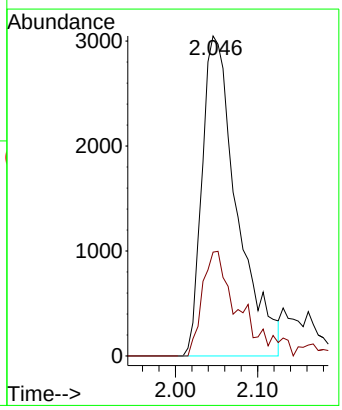
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

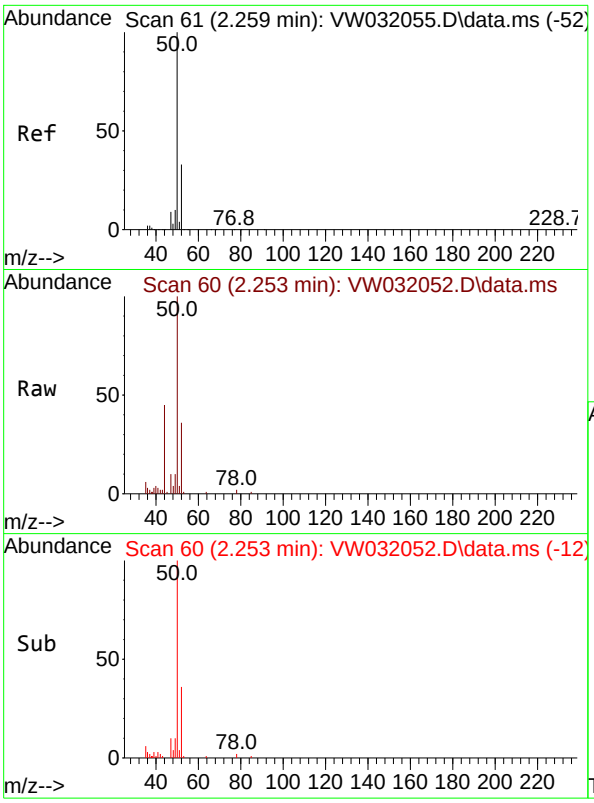


#2
Dichlorodifluoromethane
Concen: 5.583 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 85 Resp: 9007

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.2	48.6





#3
Chloromethane
Concen: 5.695 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

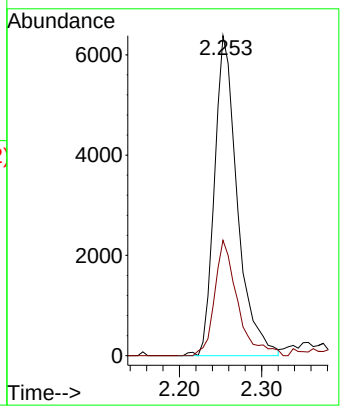
Tgt Ion: 50 Resp: 1237

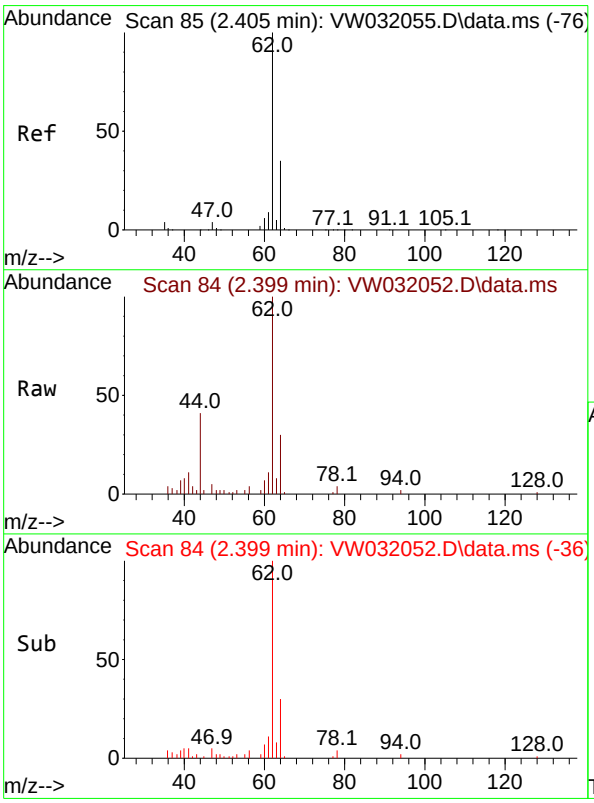
Ion	Ratio	Lower	Upper
50	100		
52	36.1	26.6	39.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

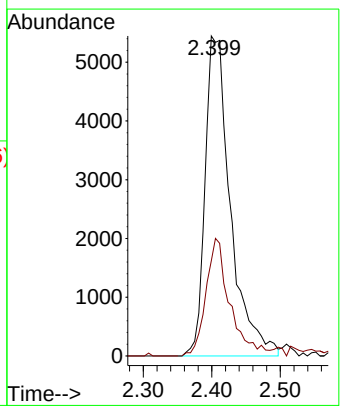


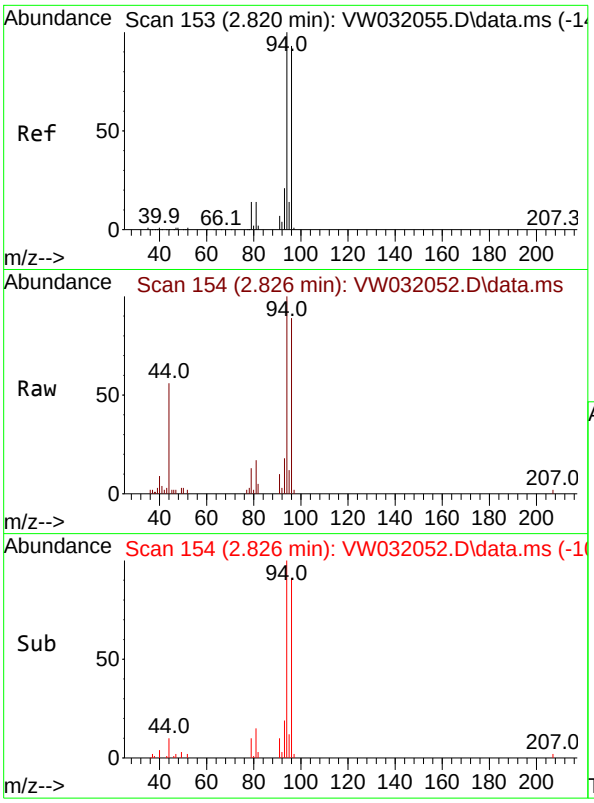


#4
Vinyl Chloride
Concen: 5.337 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 14029

Ion	Ratio	Lower	Upper
62	100		
64	29.8	27.8	41.6





#5
Bromomethane
Concen: 5.516 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

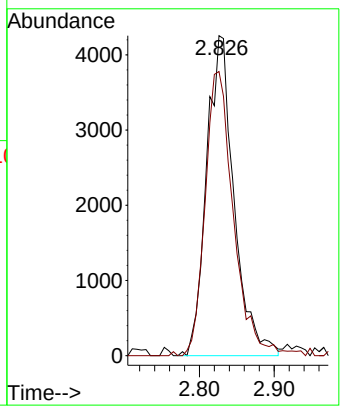
Tgt Ion: 94 Resp: 1087

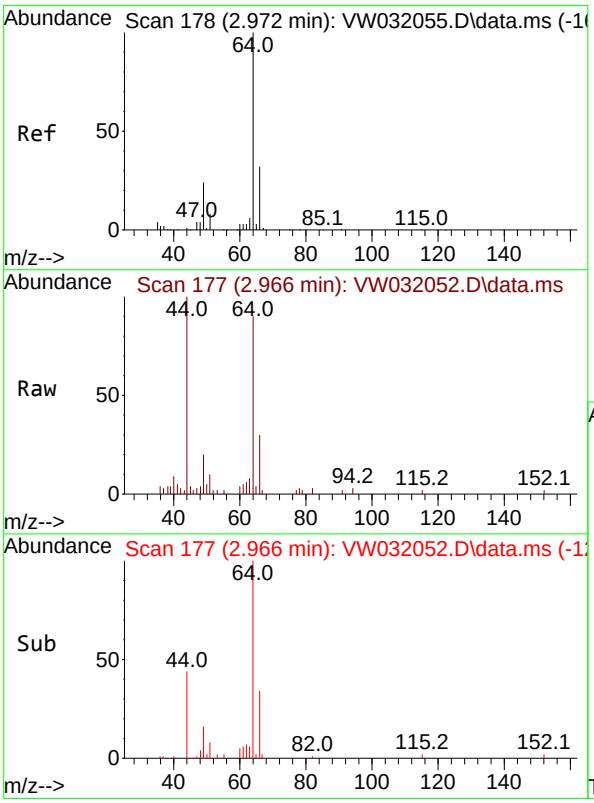
Ion	Ratio	Lower	Upper
94	100		
96	88.8	74.7	112.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

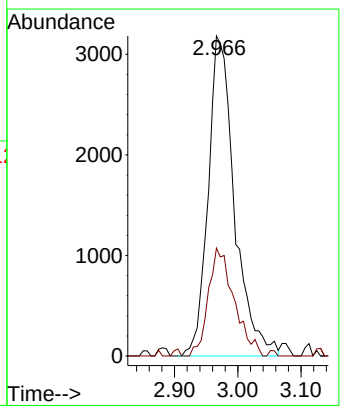


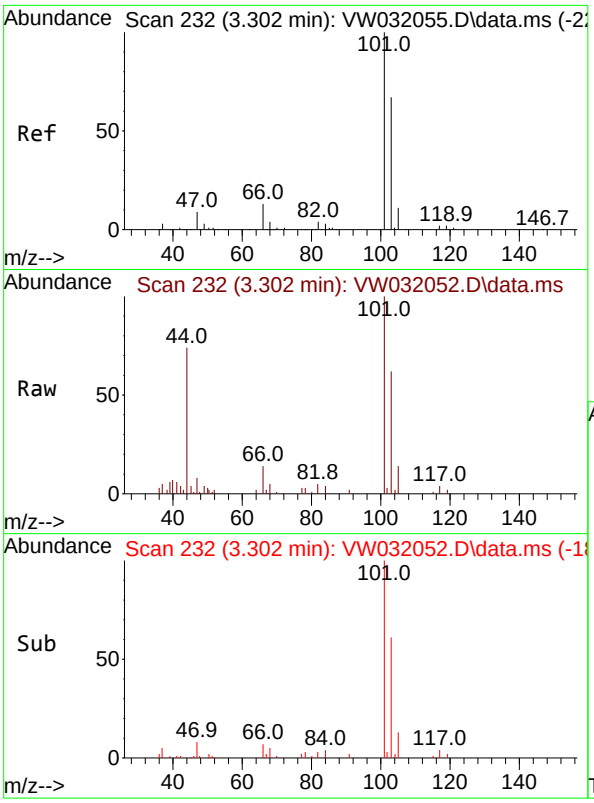


#6
Chloroethane
Concen: 5.300 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 64 Resp: 9219

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.0	39.0





#7
Trichlorofluoromethane
Concen: 5.840 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:101 Resp: 1229

Ion	Ratio	Lower	Upper
101	100		
103	61.8	53.4	80.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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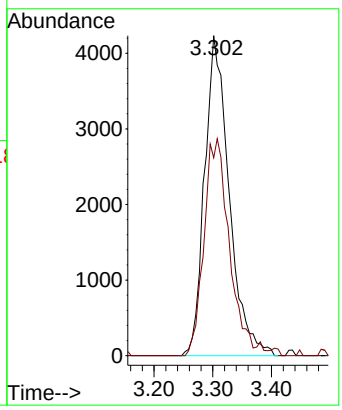
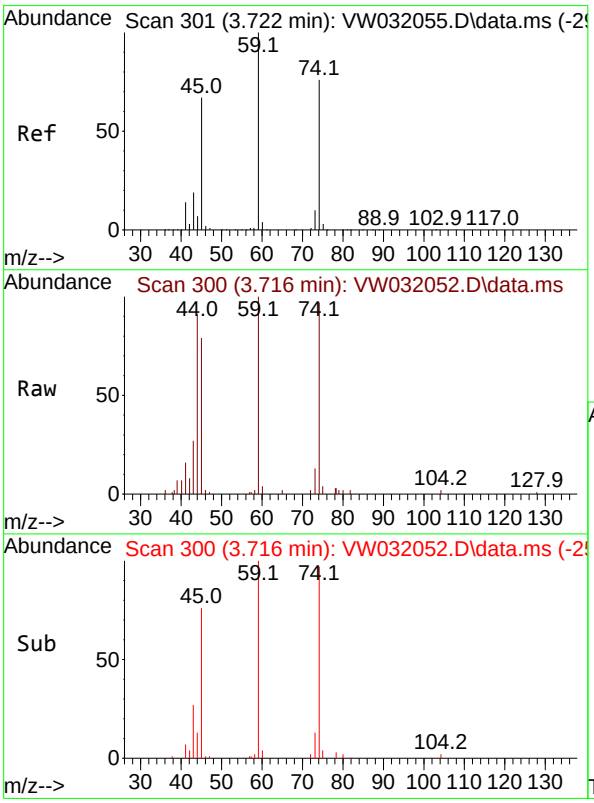
Supervised By :Semsettin Yesilyurt 08/12/2025

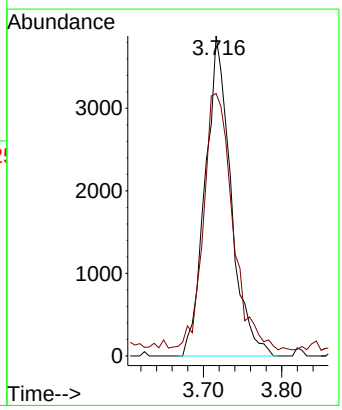


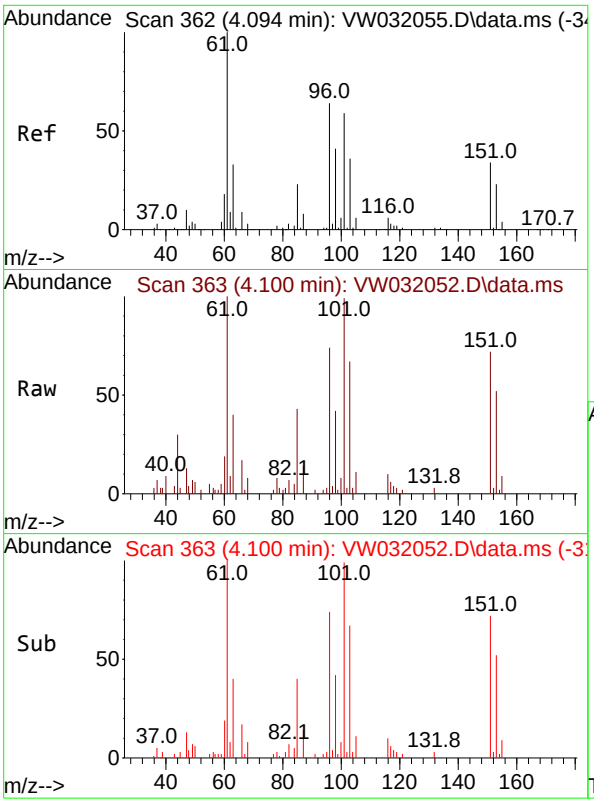


#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 74 Resp: 8824

Ion	Ratio	Lower	Upper
74	100		
45	92.8	45.4	136.2

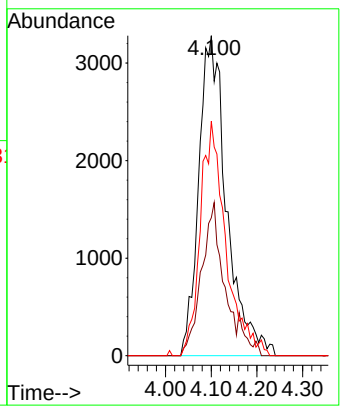




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.596 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:101 Resp: 1390

Ion	Ratio	Lower	Upper
101	100		
85	36.9	34.9	52.3
151	67.0	56.2	84.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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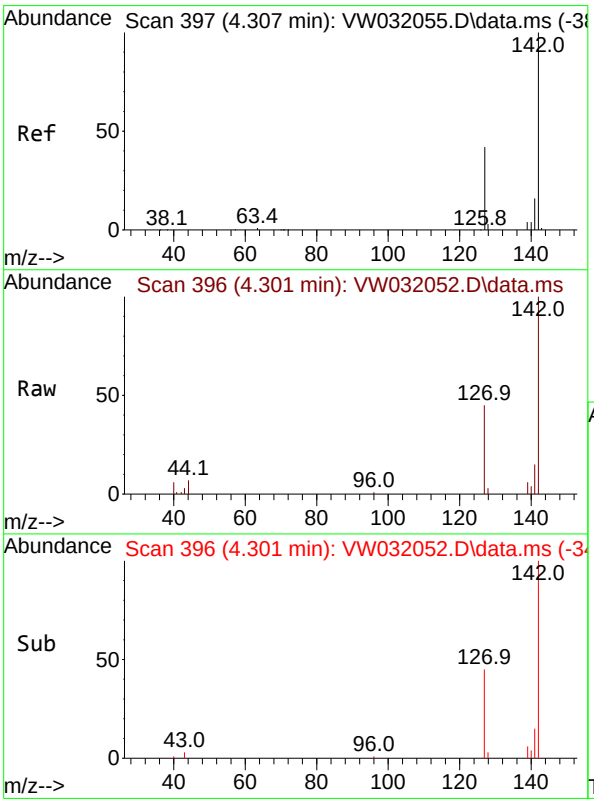
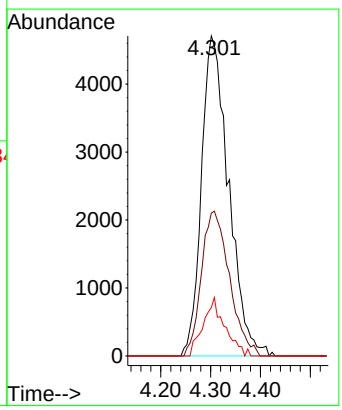
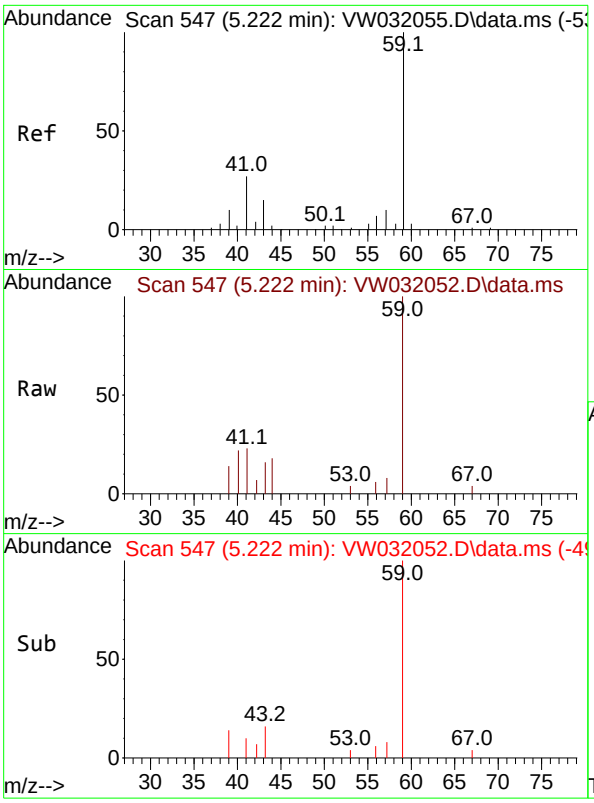


#10
Methyl Iodide
Concen: 5.050 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:142 Resp: 17789

Ion	Ratio	Lower	Upper
142	100		
127	46.8	36.6	55.0
141	14.6	12.1	18.1





#11
Tert butyl alcohol
Concen: 25.221 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 59 Resp: 532

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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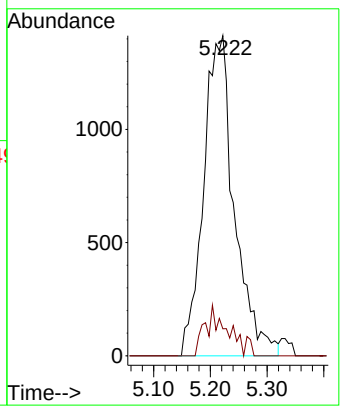
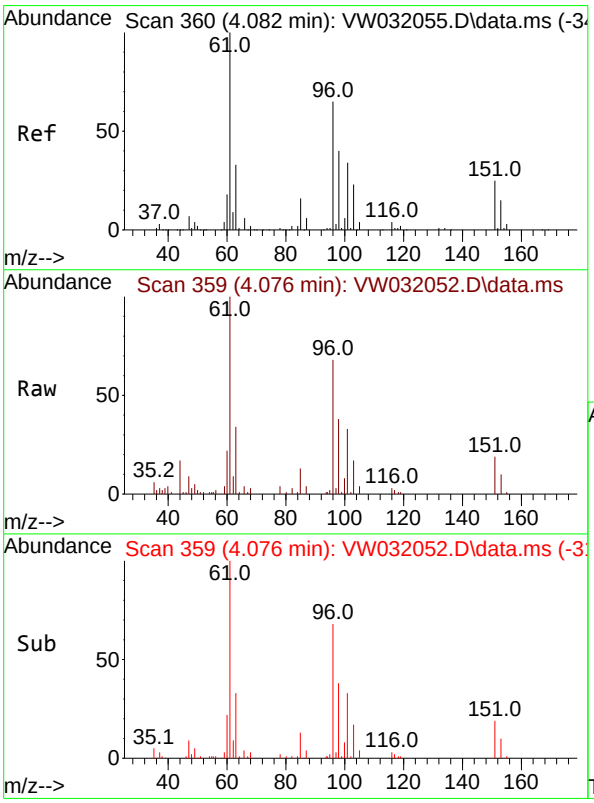
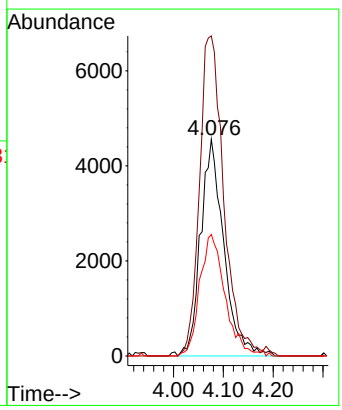


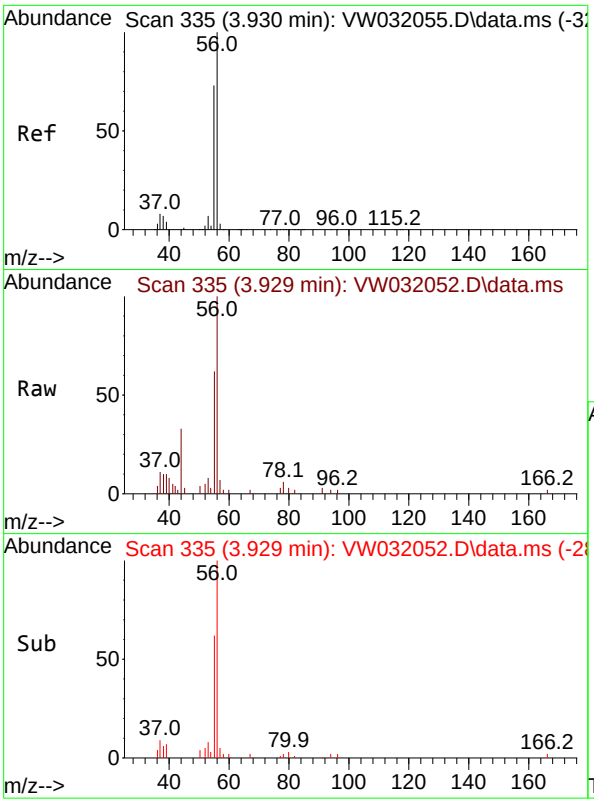


#12
1,1-Dichloroethene
Concen: 5.357 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 14655

Ion	Ratio	Lower	Upper
96	100		
61	147.7	123.4	185.2
98	56.0	49.5	74.3





#13
Acrolein
Concen: 29.207 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 56 Resp: 983

Ion	Ratio	Lower	Upper
56	100		
55	78.5	55.4	83.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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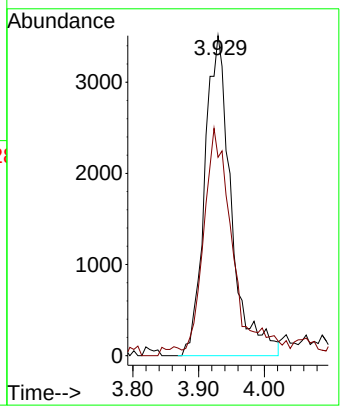
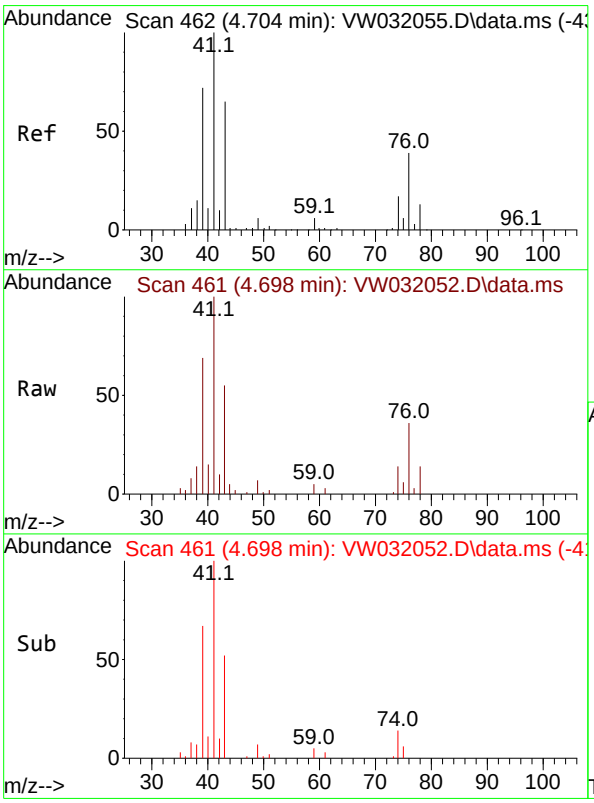
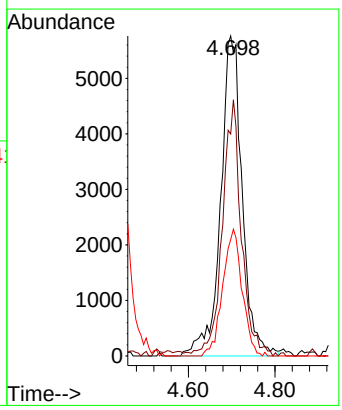


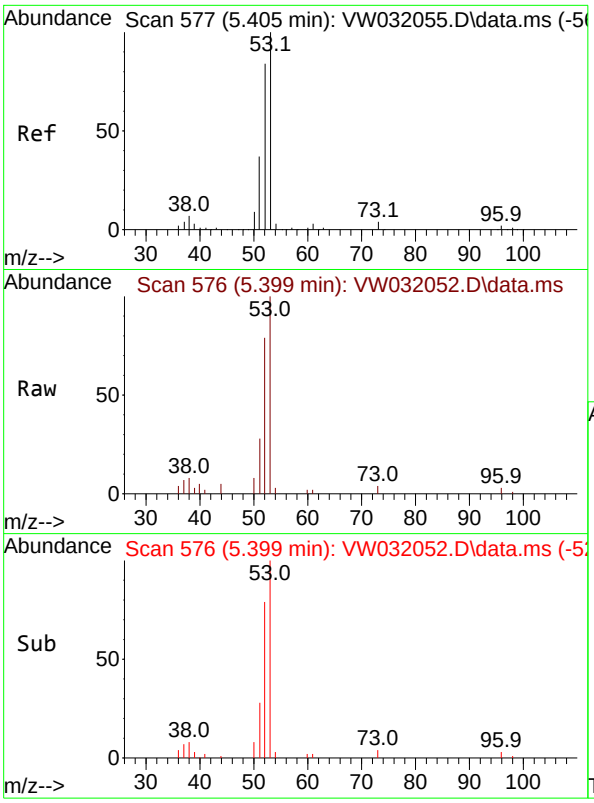


#14
Allyl chloride
Concen: 5.023 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 19999

Ion	Ratio	Lower	Upper
41	100		
39	70.2	54.5	81.7
76	35.7	29.3	43.9





#15
Acrylonitrile
Concen: 24.751 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 53 Resp: 2034

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.1	99.1
51	35.2	29.2	43.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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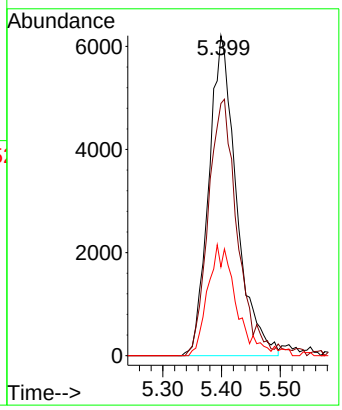
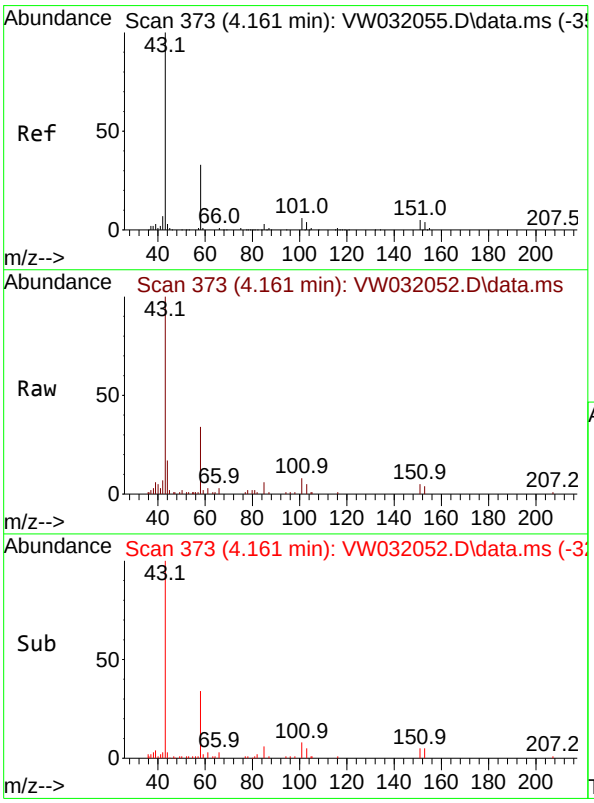
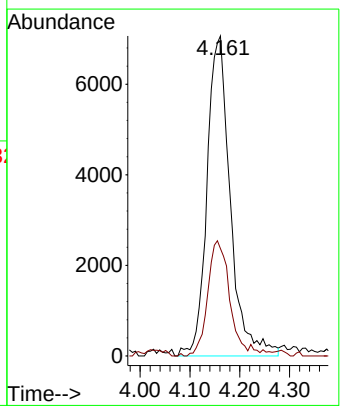


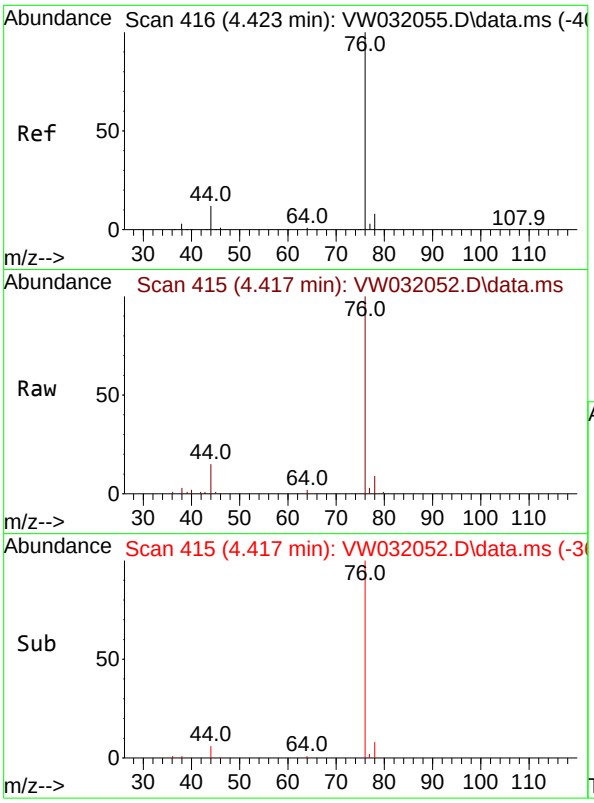


#16
Acetone
Concen: 30.337 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 22915

Ion	Ratio	Lower	Upper
43	100		
58	33.5	26.6	39.8

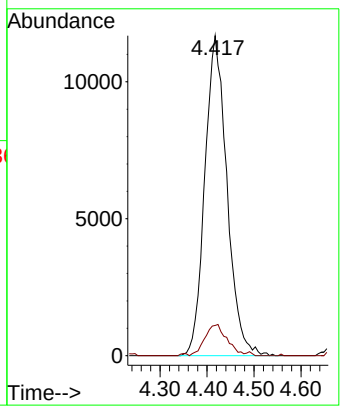




#17
Carbon Disulfide
Concen: 5.204 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 76 Resp: 3821

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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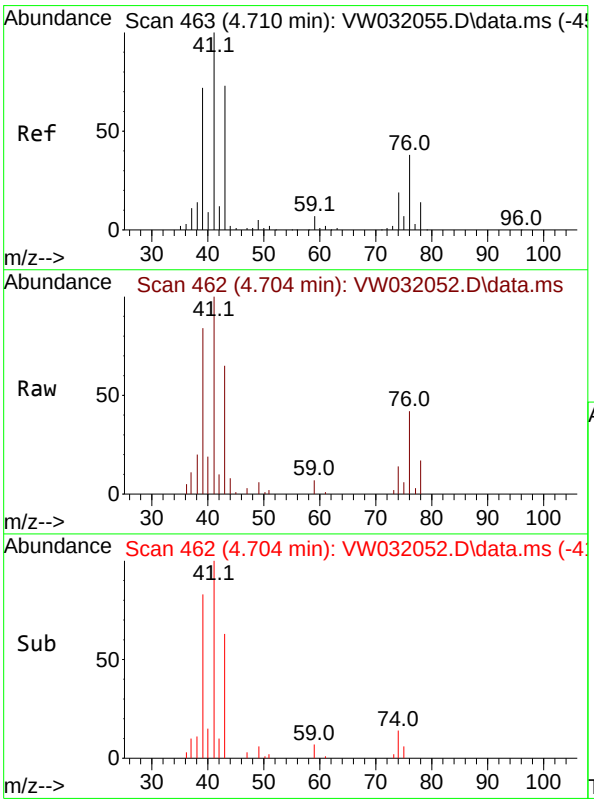
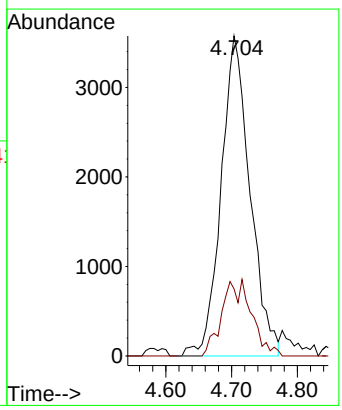
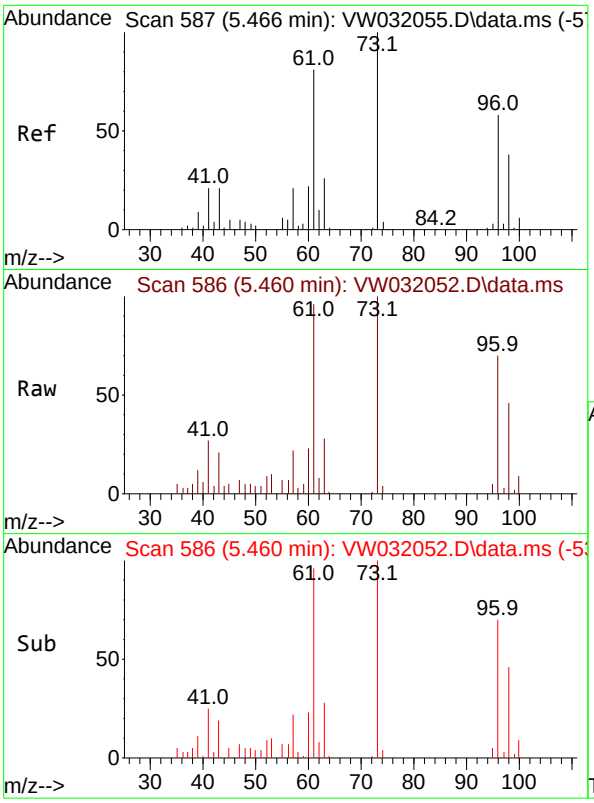


#18
Methyl Acetate
Concen: 4.578 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 10943

Ion	Ratio	Lower	Upper
43	100		
74	13.7	20.6	31.0#

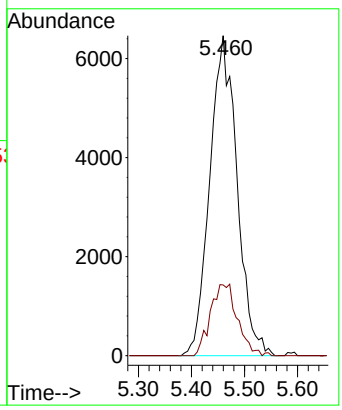




#19
Methyl tert-butyl Ether
Concen: 4.785 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 73 Resp: 2306

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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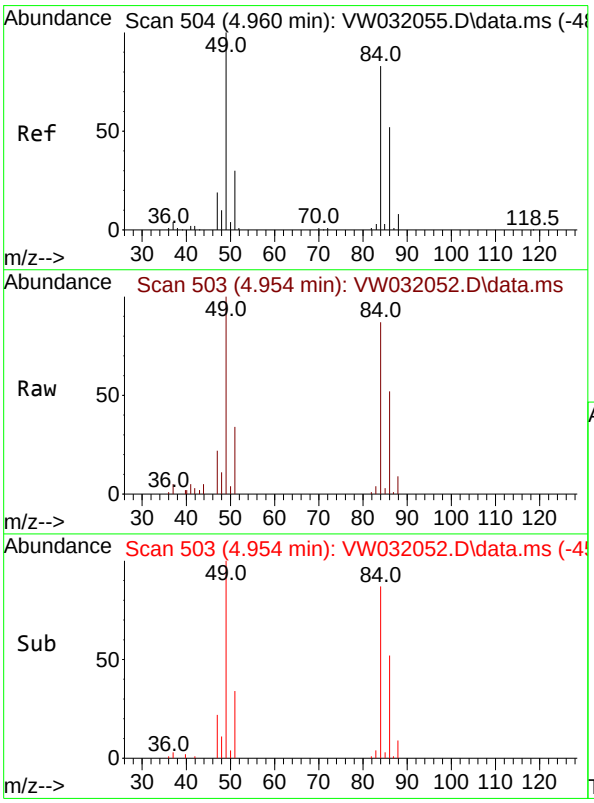
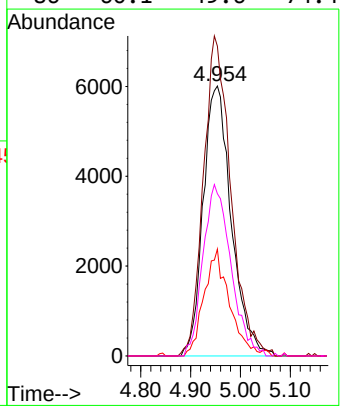
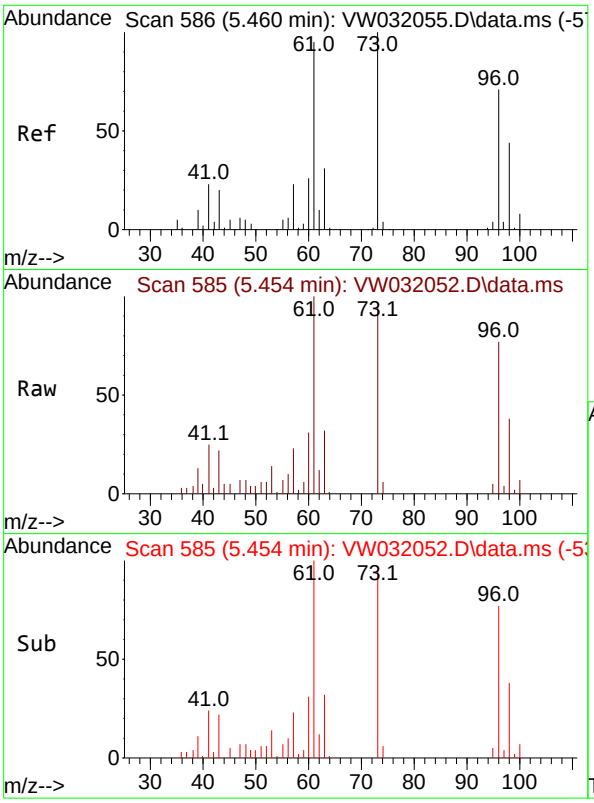


#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 84 Resp: 23529

Ion	Ratio	Lower	Upper
84	100		
49	114.8	95.9	143.9
51	39.6	28.6	43.0
86	60.1	49.6	74.4

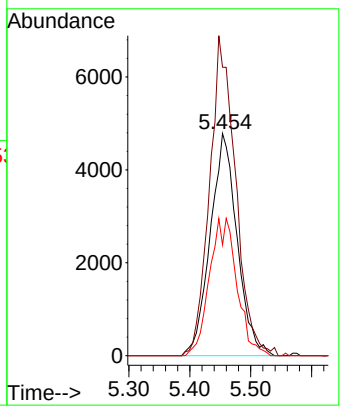




#21
trans-1,2-Dichloroethene
Concen: 5.053 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 1467

Ion	Ratio	Lower	Upper
96	100		
61	129.9	106.8	160.2
98	49.8	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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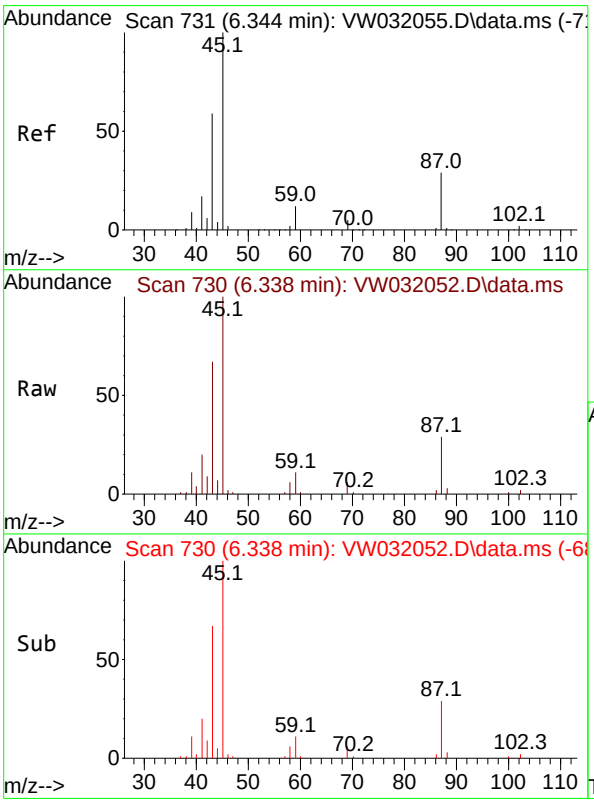
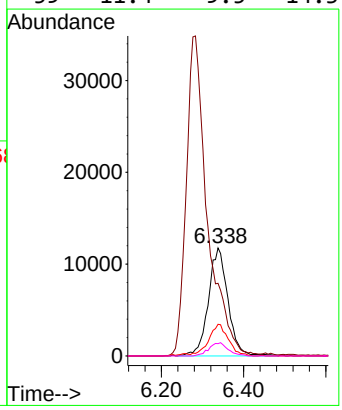
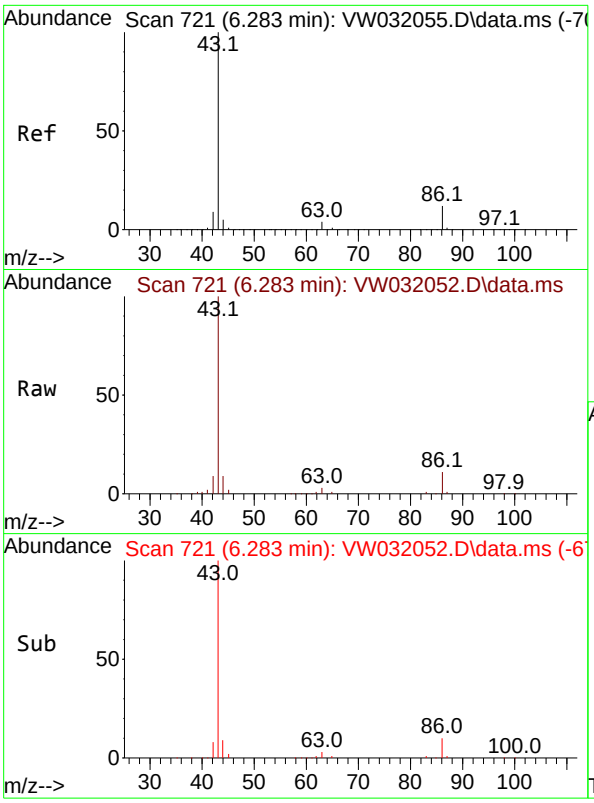


#22
Diisopropyl ether
Concen: 4.634 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 45 Resp: 38895

Ion	Ratio	Lower	Upper
45	100		
43	66.3	47.0	70.4
87	29.4	23.8	35.8
59	11.4	9.5	14.3





#23
Vinyl Acetate
Concen: 22.588 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 12447

Ion	Ratio	Lower	Upper
43	100		
86	10.9	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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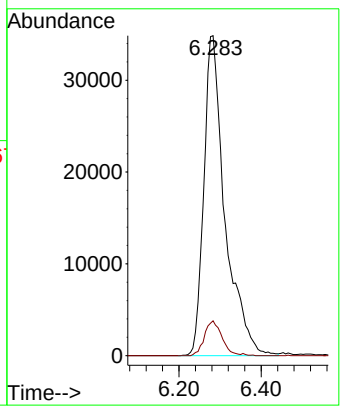
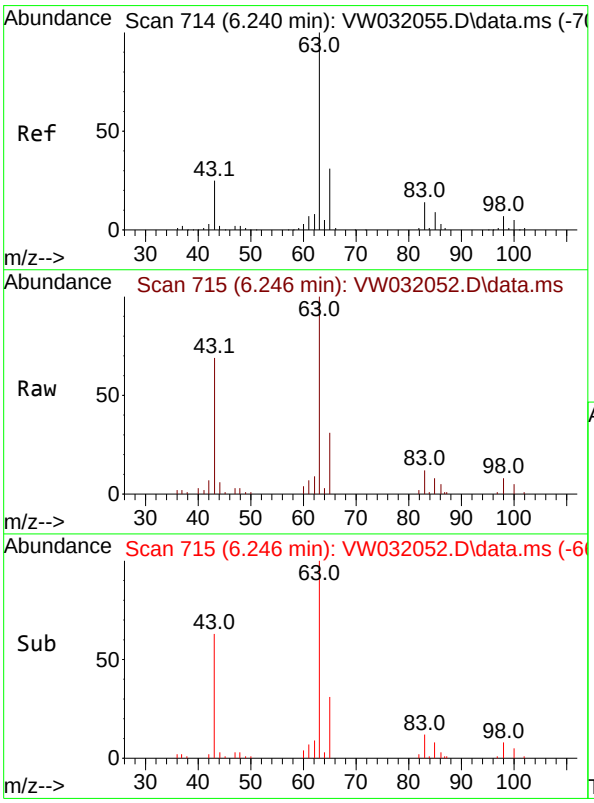
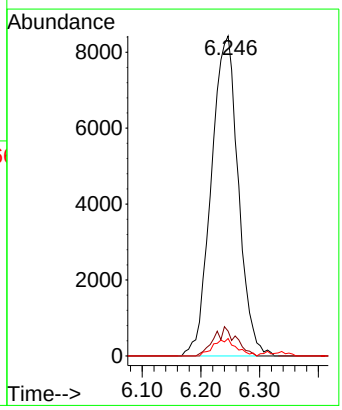


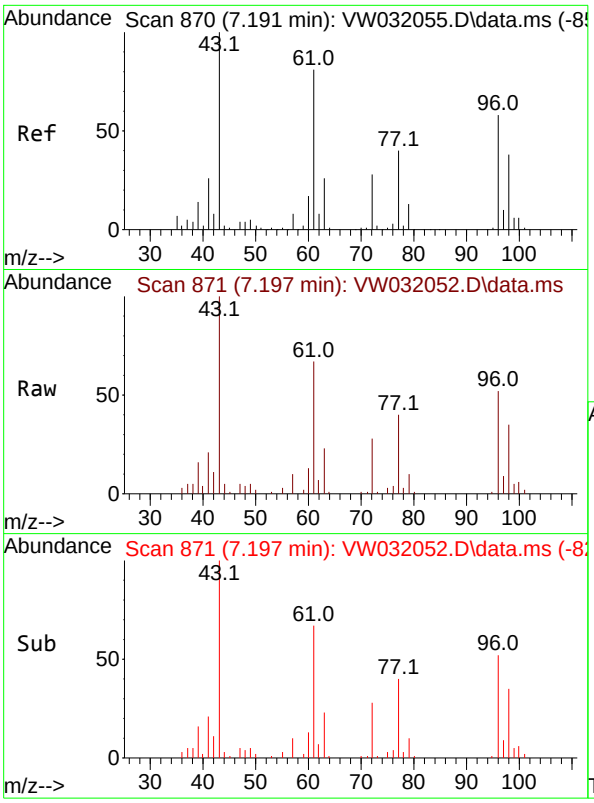


#24
1,1-Dichloroethane
Concen: 5.018 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 26909

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.7	11.1
100	5.4	2.5	7.4

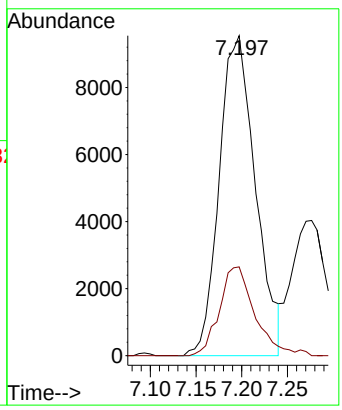




#25
2-Butanone
Concen: 24.484 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 2628

Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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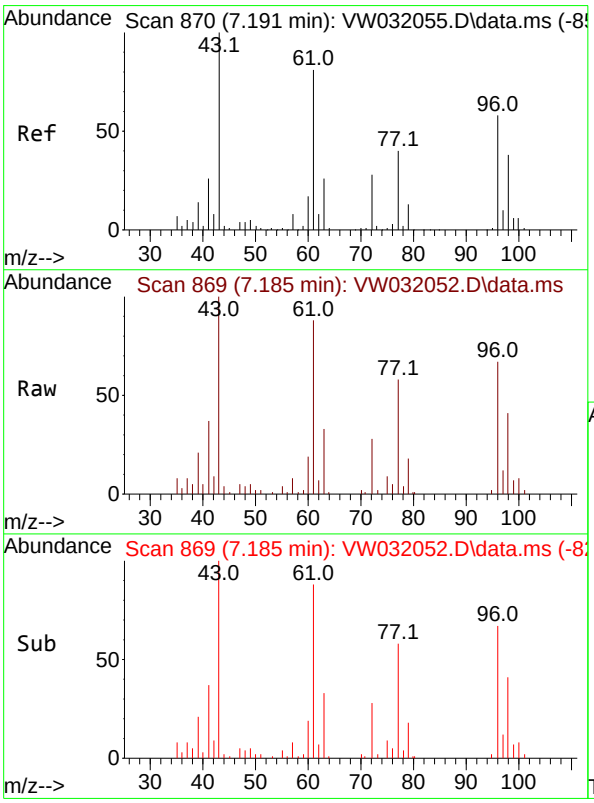
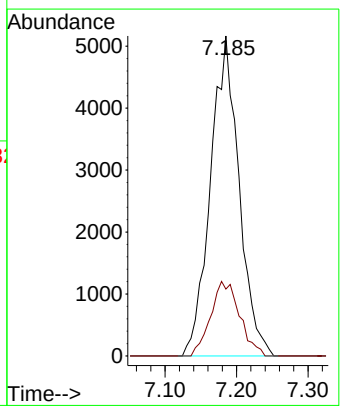
Supervised By :Semsettin Yesilyurt 08/12/2025

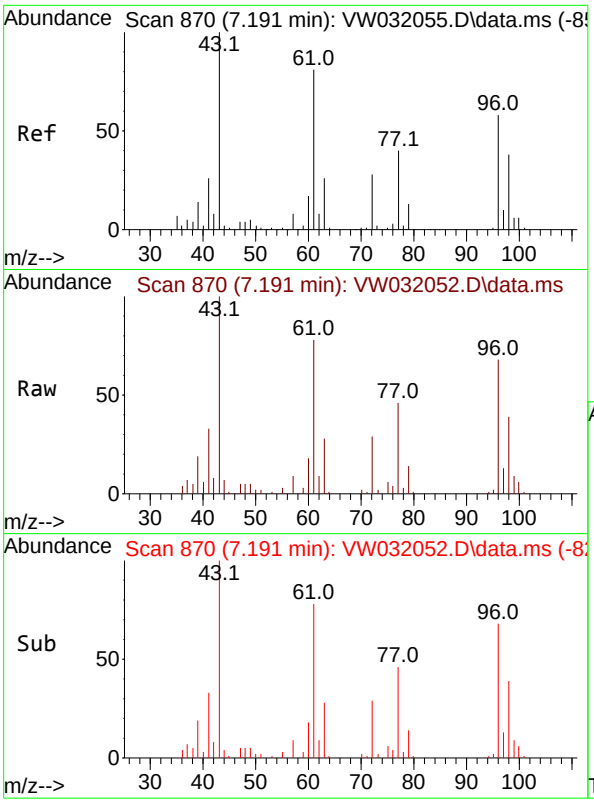


#26
2,2-Dichloropropane
Concen: 5.326 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 77 Resp: 14330

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.3	36.9

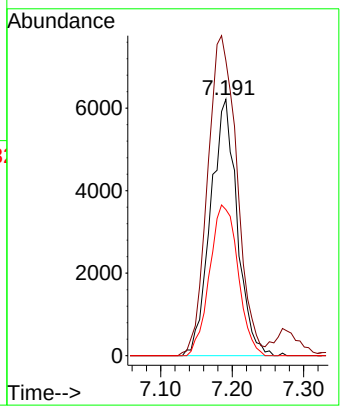




#27
cis-1,2-Dichloroethene
Concen: 4.727 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 1604

Ion	Ratio	Lower	Upper
96	100		
61	138.1	0.0	281.2
98	62.9	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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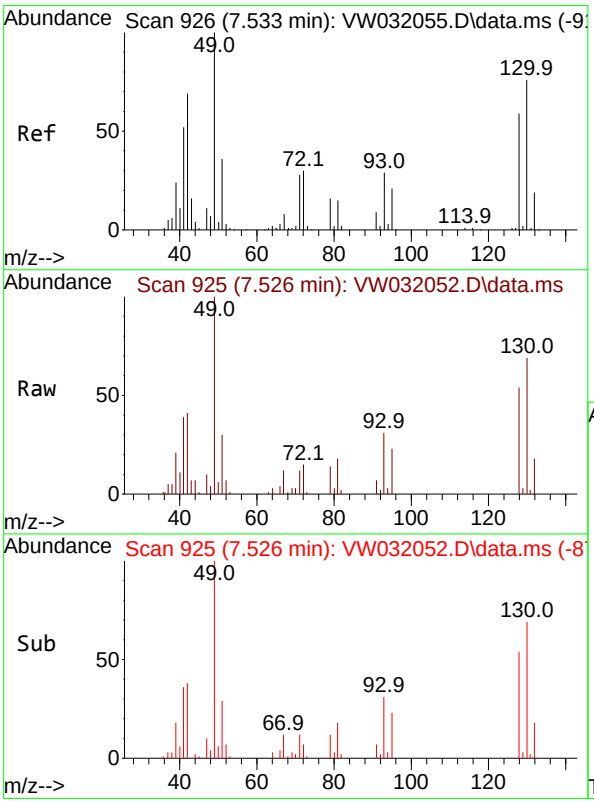
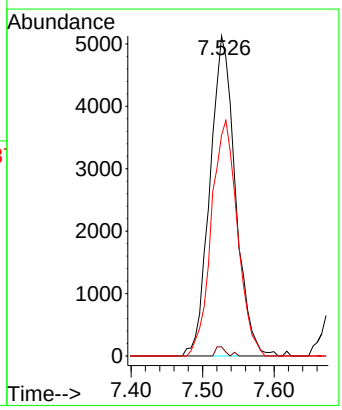
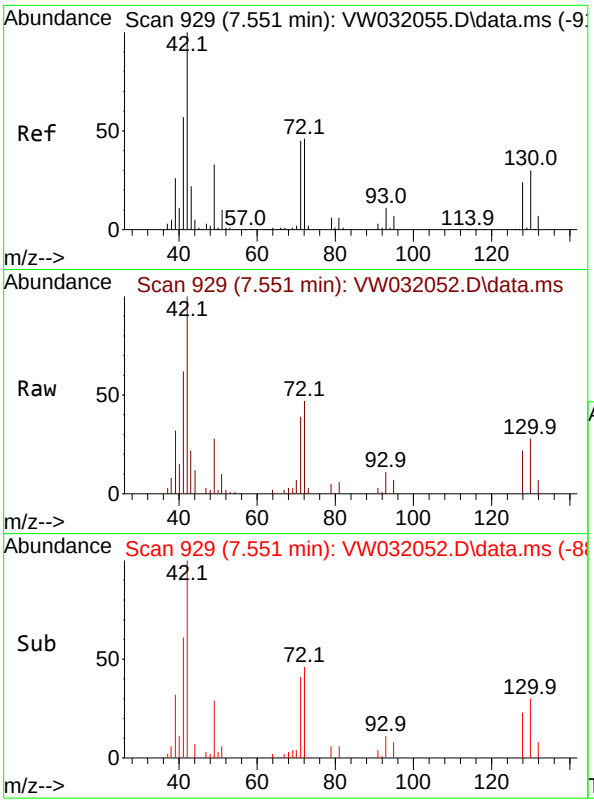


#28
Bromochloromethane
Concen: 5.188 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 49 Resp: 12660

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.2
130	75.4	61.9	92.9

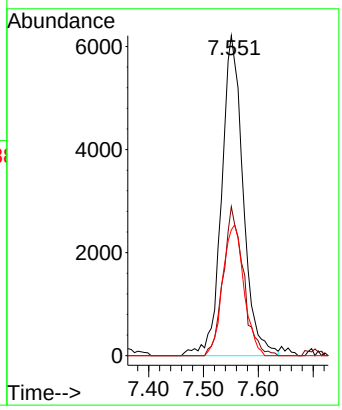




#29
Tetrahydrofuran
Concen: 23.963 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 42 Resp: 1696

Ion	Ratio	Lower	Upper
42	100		
72	43.6	36.6	55.0
71	40.3	34.7	52.1



Instrument :
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ClientSampleId :
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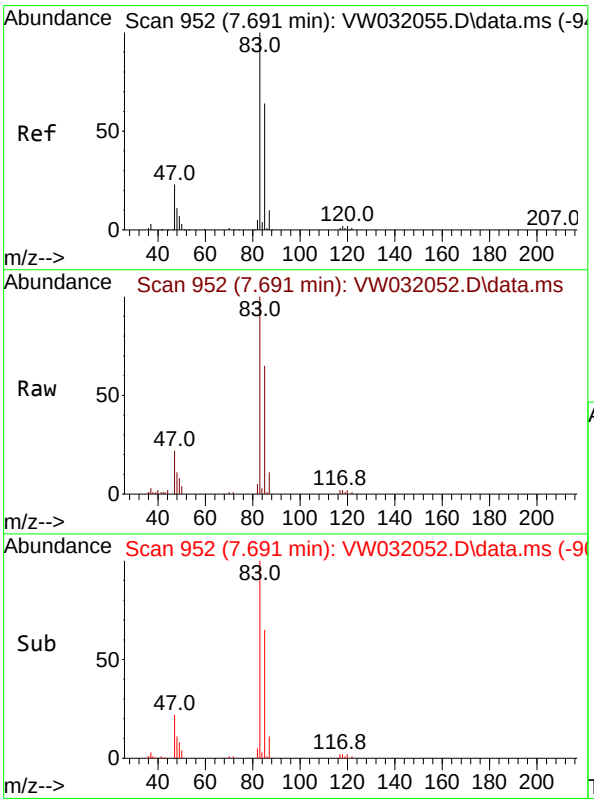
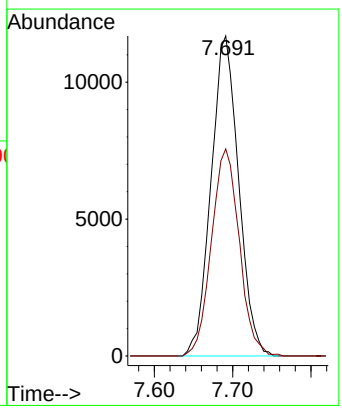
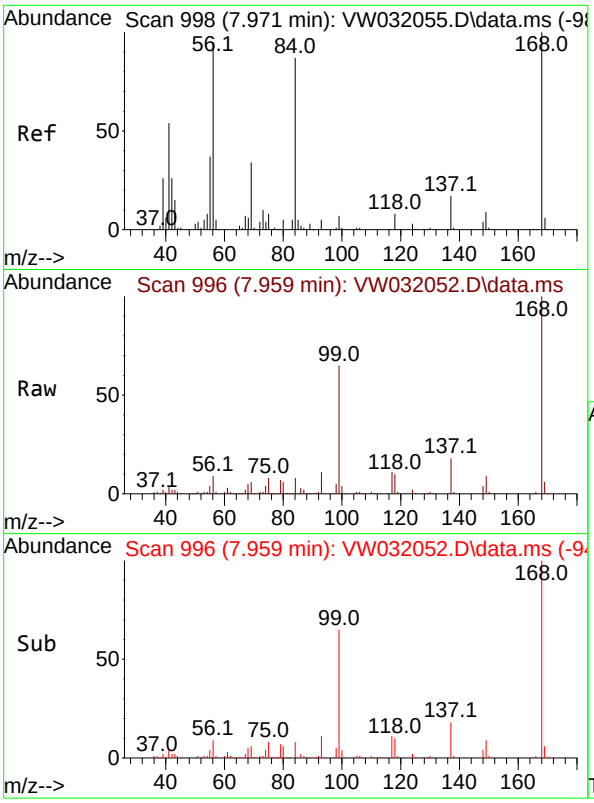


#30
Chloroform
Concen: 5.028 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 28586

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.0	76.4

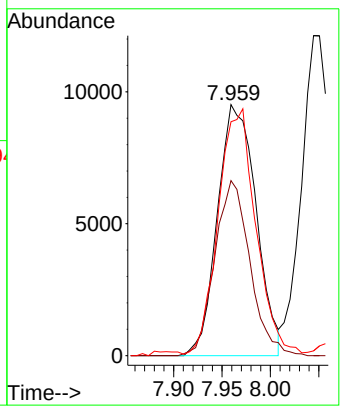




#31
Cyclohexane
Concen: 5.677 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 56 Resp: 2639

Ion	Ratio	Lower	Upper
56	100		
69	69.7	28.6	42.8
84	91.7	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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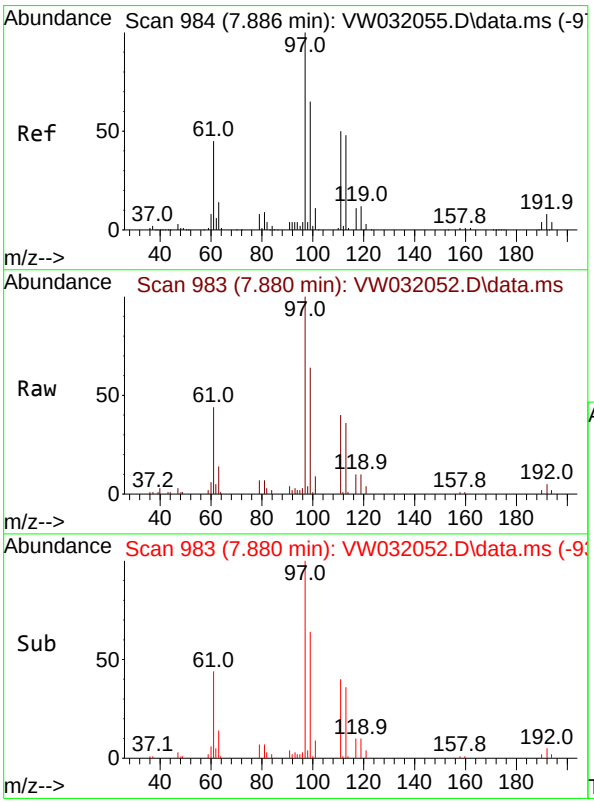
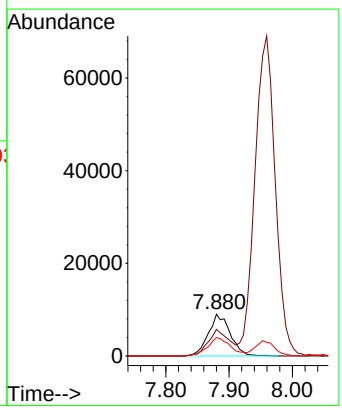
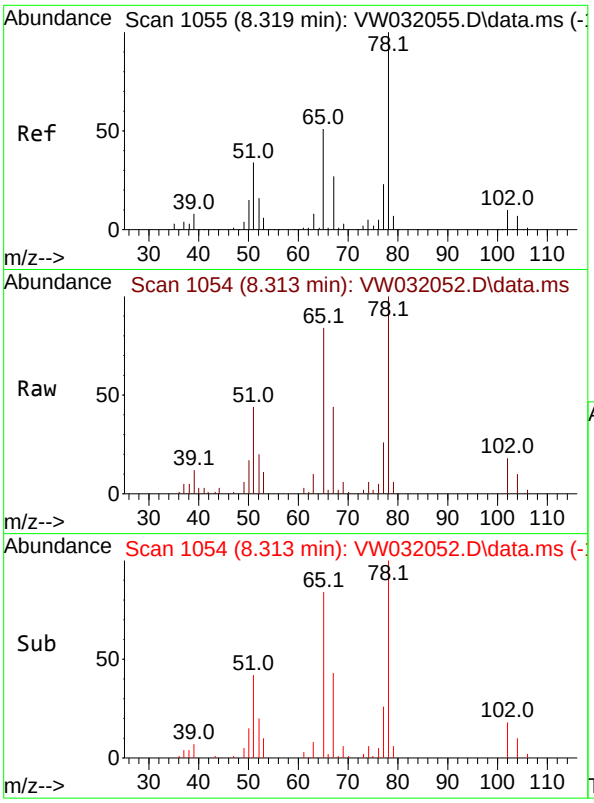


#32
1,1,1-Trichloroethane
Concen: 5.246 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 97 Resp: 21662

Ion	Ratio	Lower	Upper
97	100		
99	60.6	51.8	77.8
61	46.4	35.9	53.9

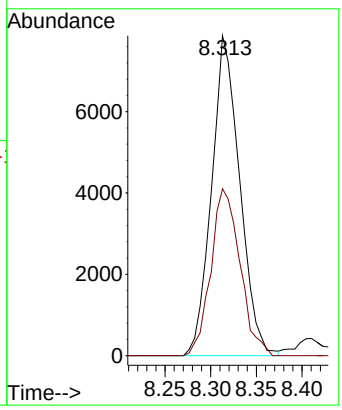




#33
1,2-Dichloroethane-d4
Concen: 5.158 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 65 Resp: 1682

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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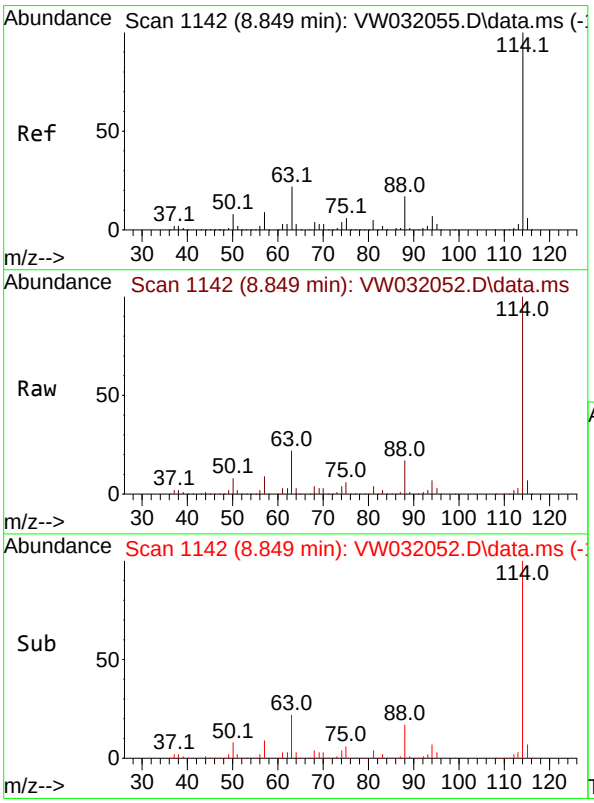
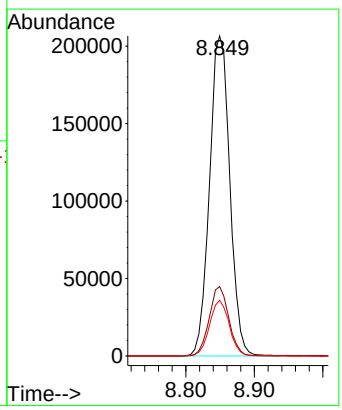
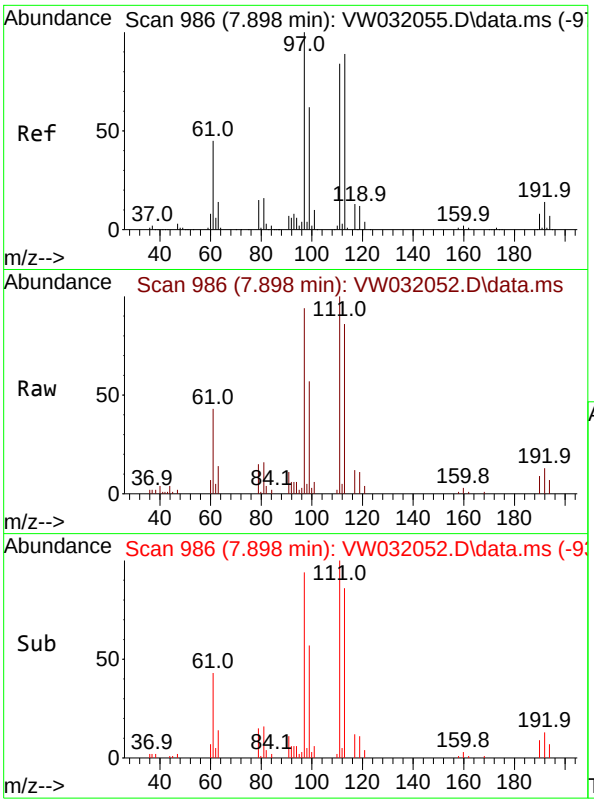


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:114 Resp: 424617

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.0
88	17.4	0.0	33.8

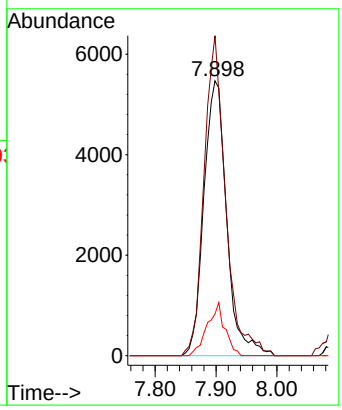




#35
Dibromofluoromethane
Concen: 5.205 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:113 Resp: 1427

Ion	Ratio	Lower	Upper
113	100		
111	109.4	80.1	120.1
192	14.8	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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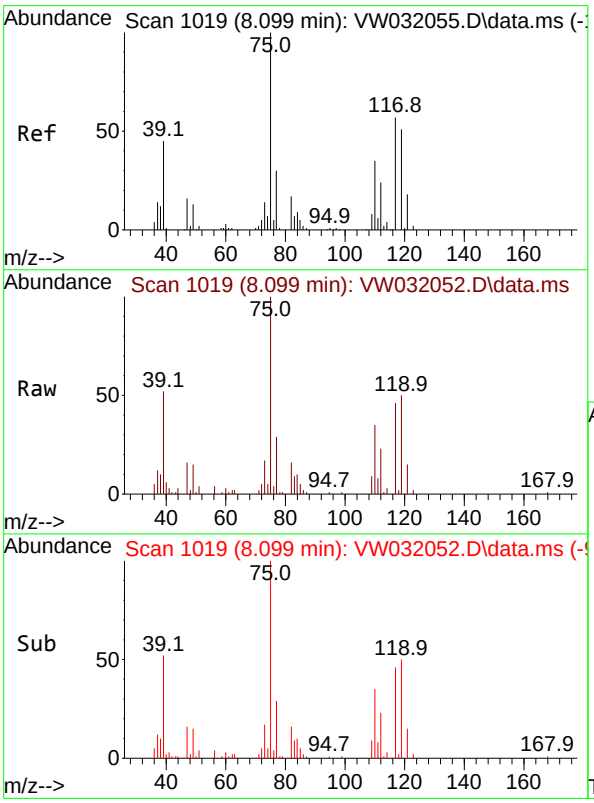
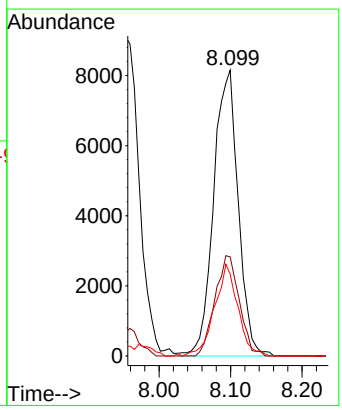
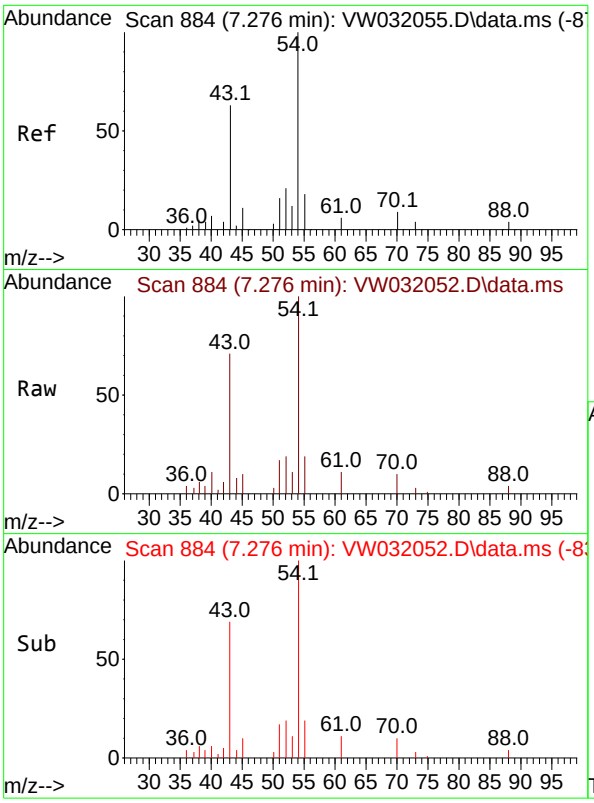


#36
1,1-Dichloropropene
Concen: 5.034 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19468

Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.4	52.2
77	30.4	24.7	37.1





#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 1136

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.8	17.6
70	11.4	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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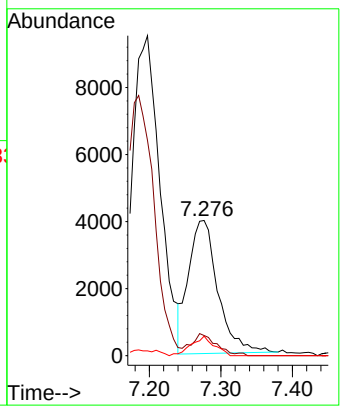
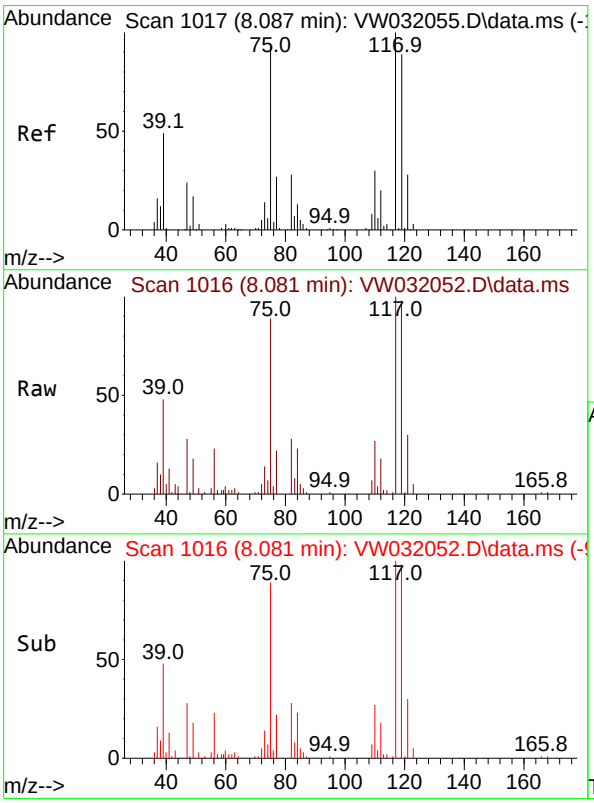
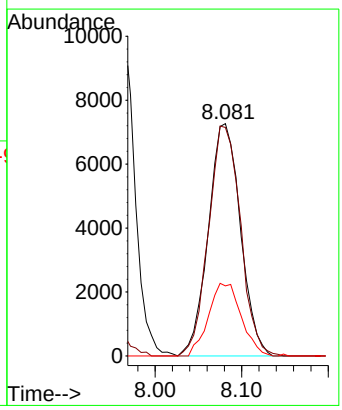


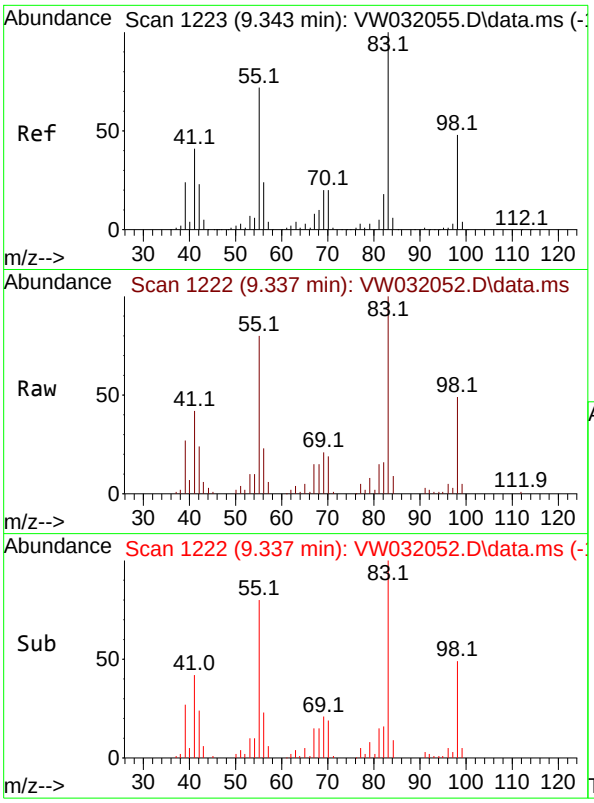


#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 18734

Ion	Ratio	Lower	Upper
117	100		
119	98.3	71.4	107.2
121	30.2	22.3	33.5

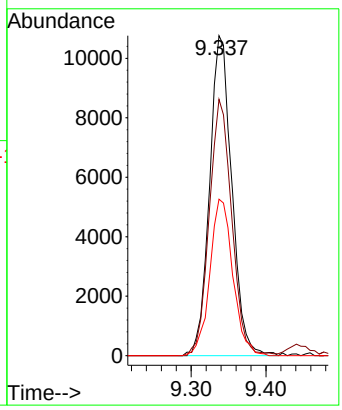




#39
Methylcyclohexane
Concen: 4.728 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 2228

Ion	Ratio	Lower	Upper
83	100		
55	80.1	57.9	86.9
98	48.9	38.3	57.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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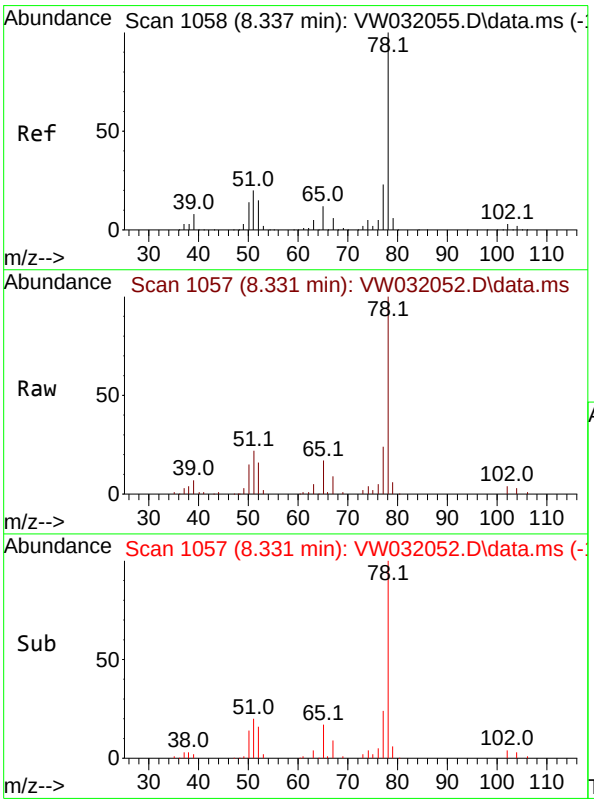
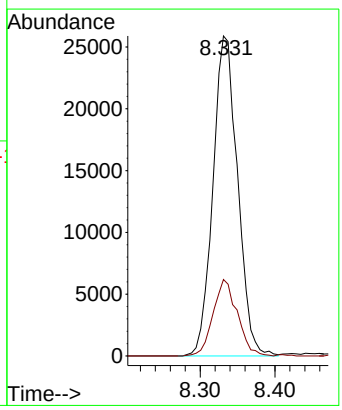
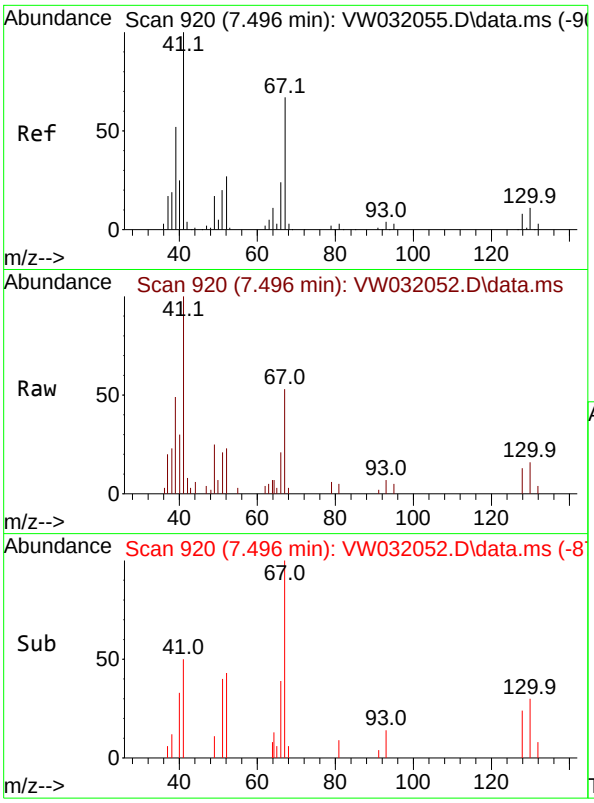


#40
Benzene
Concen: 4.941 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 78 Resp: 59395

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.4	27.6

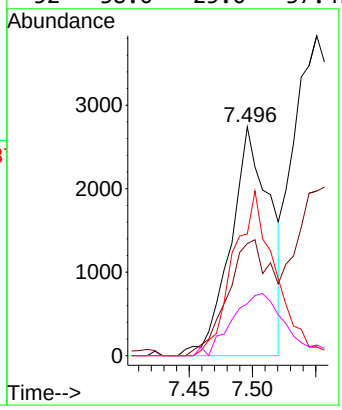




#41
Methacrylonitrile
Concen: 4.576 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 591

Ion	Ratio	Lower	Upper
41	100		
39	57.0	42.6	63.8
67	78.0	61.0	91.4
52	38.0	25.0	37.4#



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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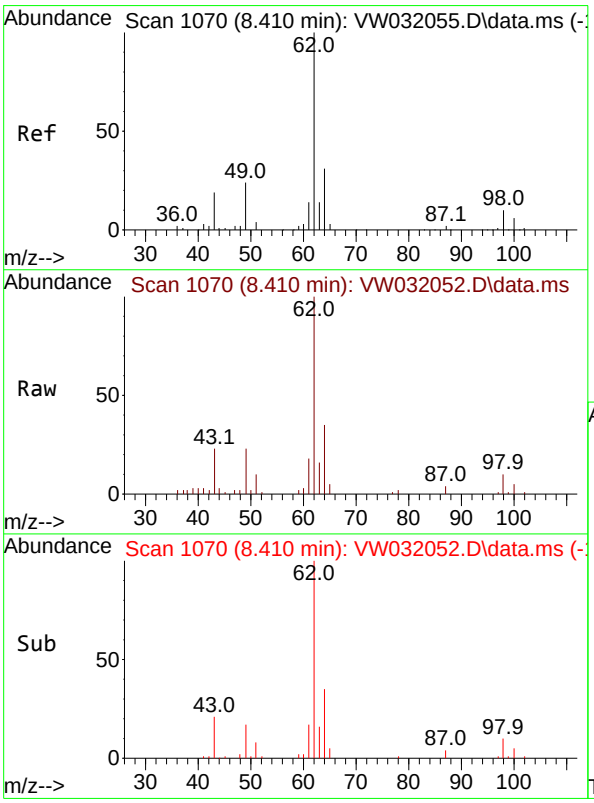
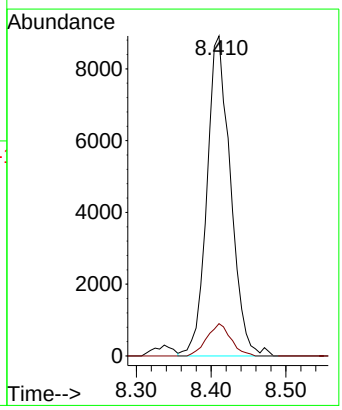
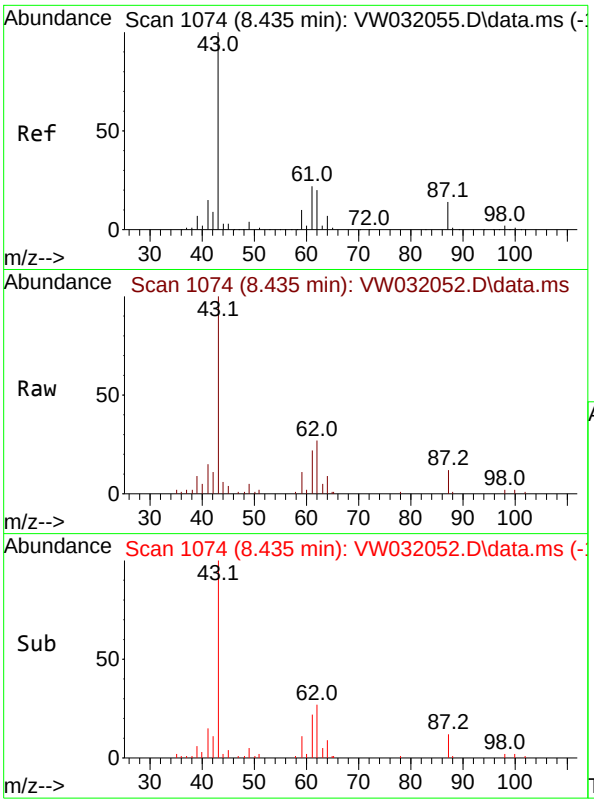


#42
1,2-Dichloroethane
Concen: 5.085 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 19560

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.8

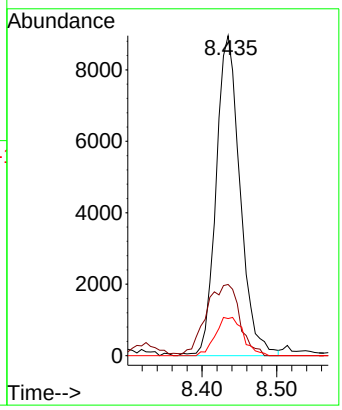




#43
Isopropyl Acetate
Concen: 4.756 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 1992

Ion	Ratio	Lower	Upper
43	100		
61	31.3	23.8	35.8
87	13.9	11.7	17.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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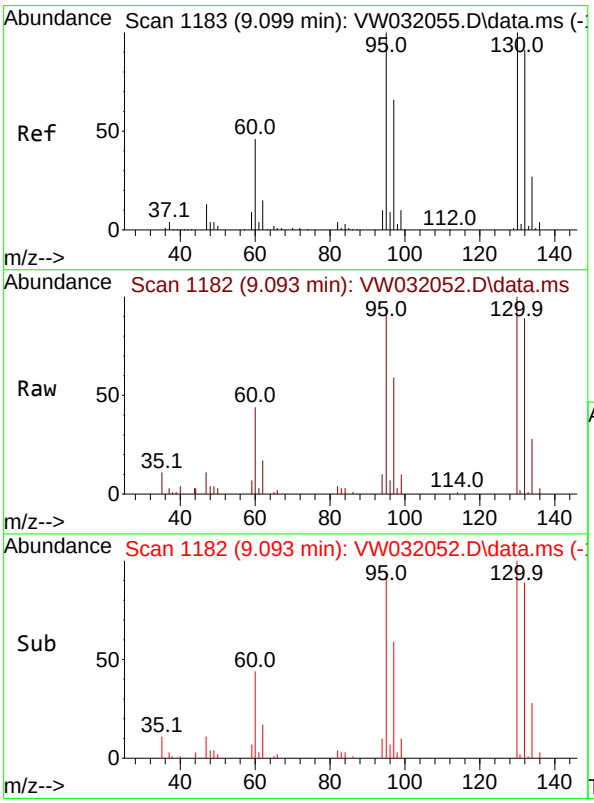
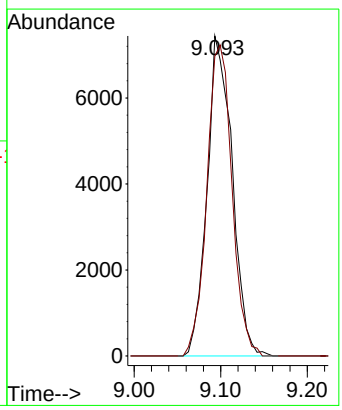
Supervised By :Semsettin Yesilyurt 08/12/2025

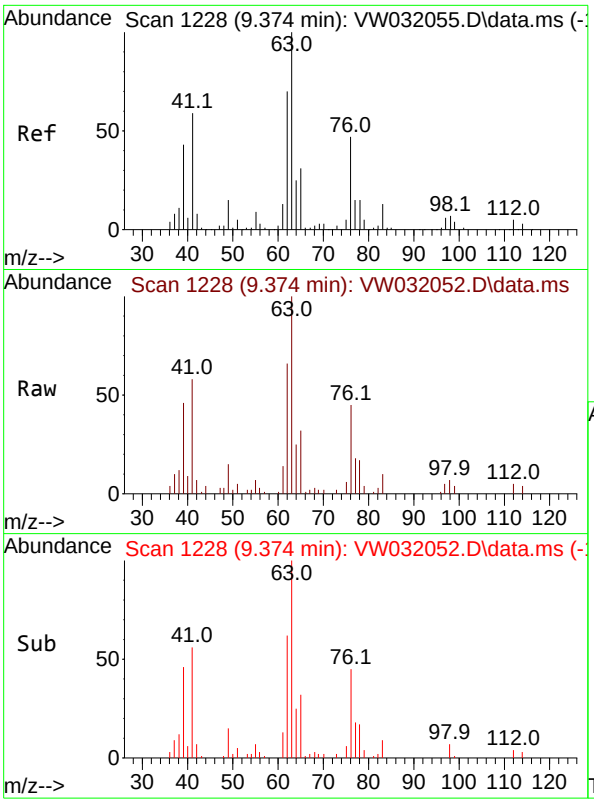


#44
Trichloroethene
Concen: 5.240 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:130 Resp: 14999

Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	200.6

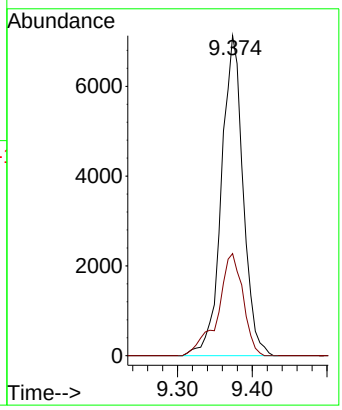




#45
1,2-Dichloropropane
Concen: 4.954 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 1438

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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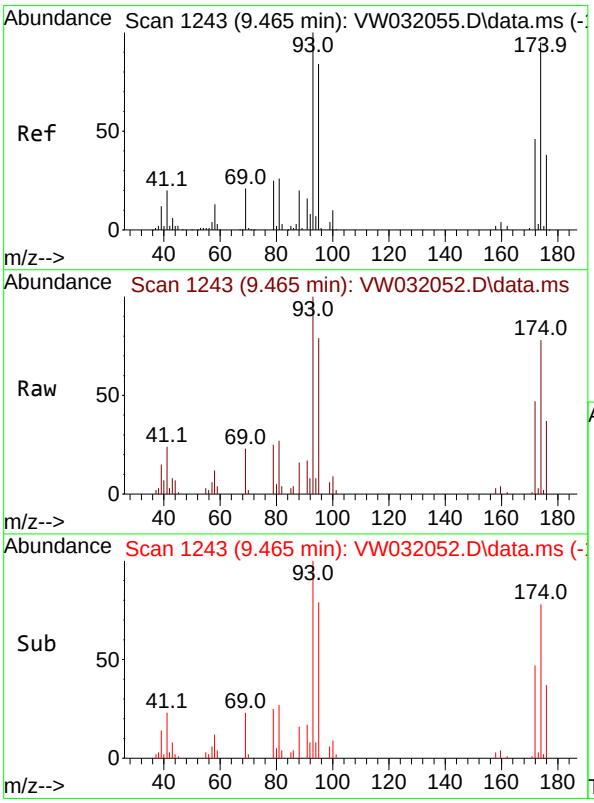
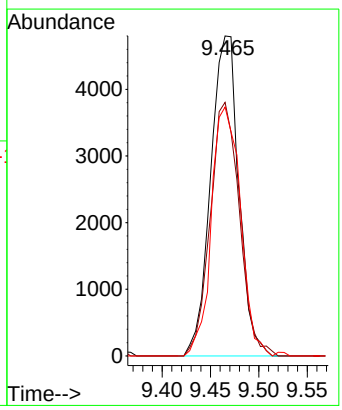
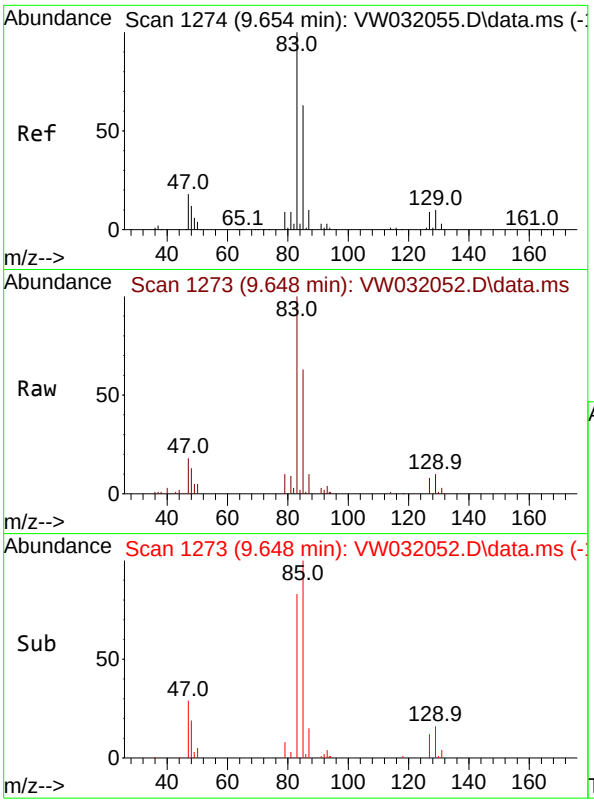


#46
Dibromomethane
Concen: 5.204 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 93 Resp: 9753

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.3	97.9
174	80.1	68.6	102.8

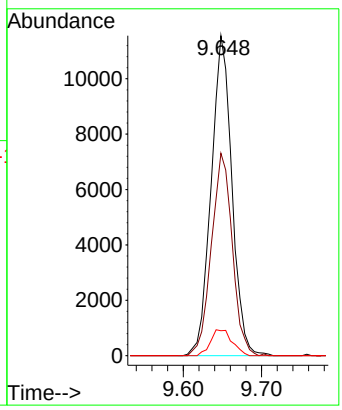




#47
Bromodichloromethane
Concen: 4.927 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 2127

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.6	75.8
127	7.8	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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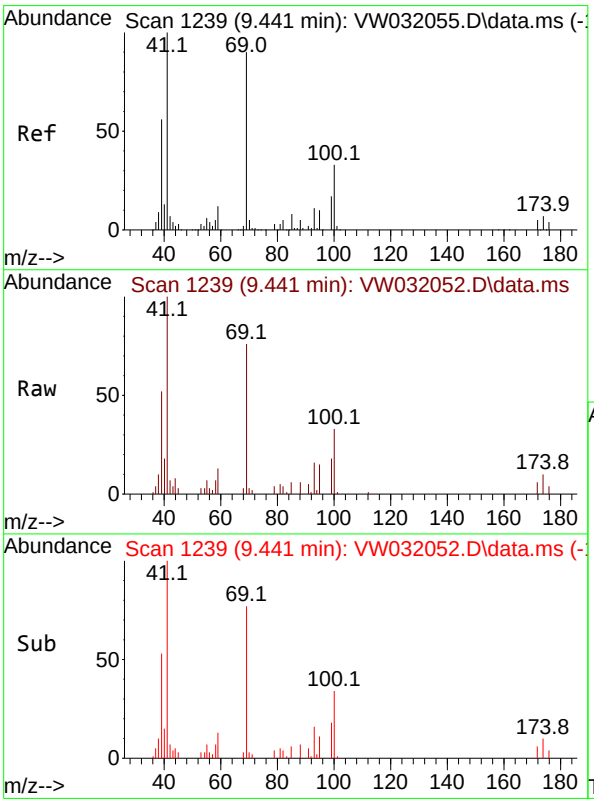
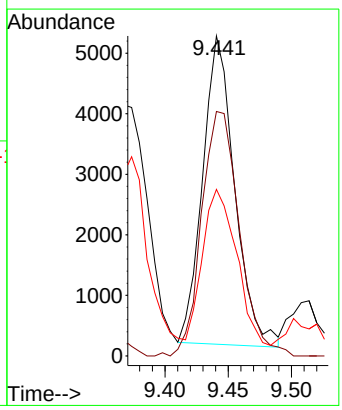
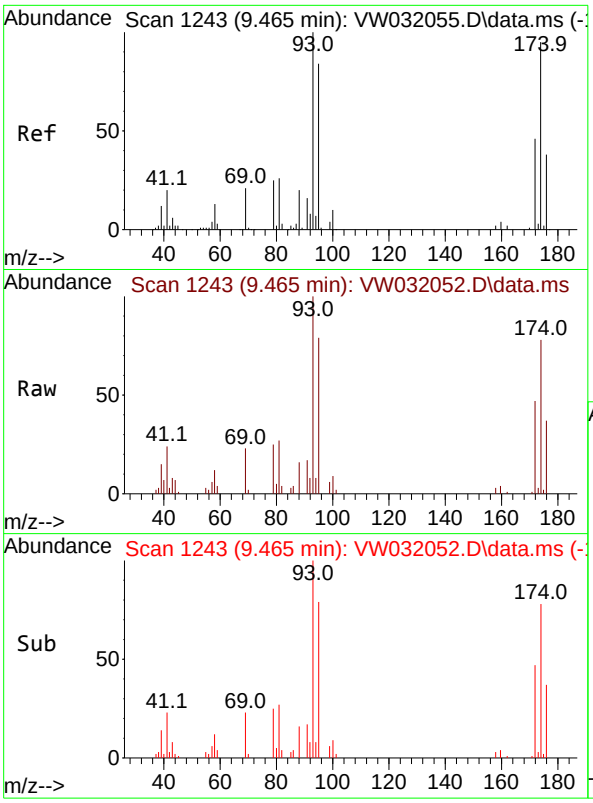


#48
Methyl methacrylate
Concen: 4.424 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 8949

Ion	Ratio	Lower	Upper
41	100		
69	93.4	73.0	109.6
39	53.4	45.0	67.4

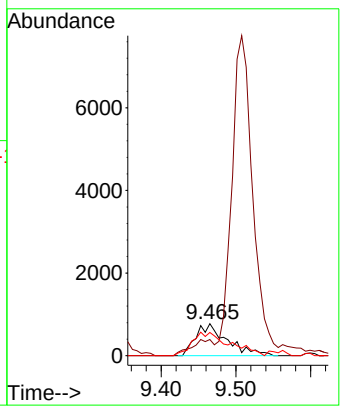




#49
1,4-Dioxane
Concen: 93.217 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 88 Resp: 225

Ion	Ratio	Lower	Upper
88	100		
43	35.9	20.6	30.8
58	87.2	60.4	90.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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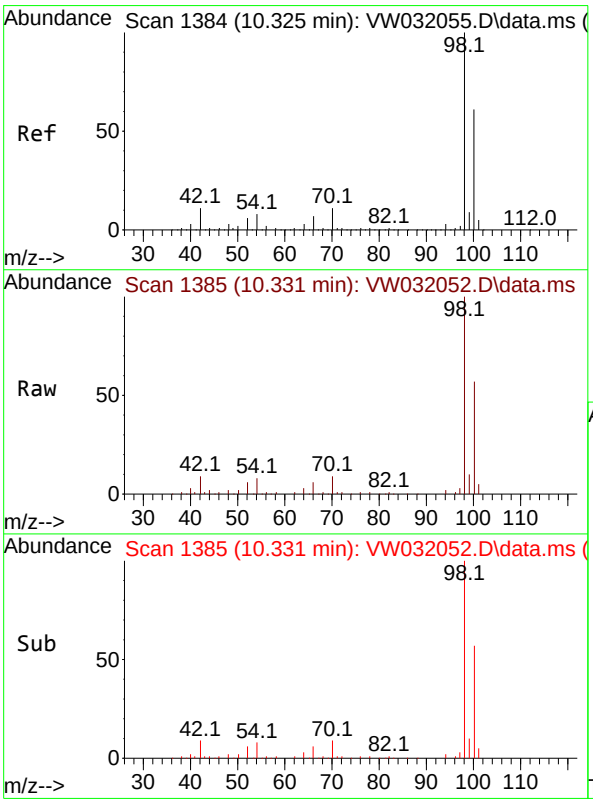
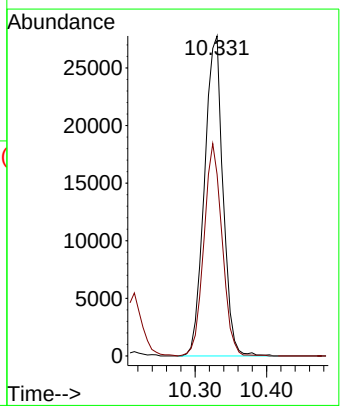
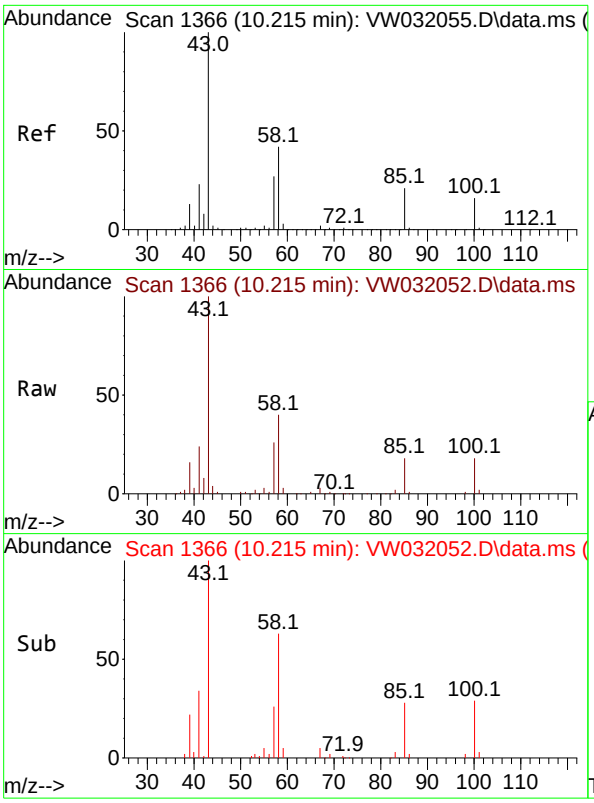


#50
Toluene-d8
Concen: 4.916 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 98 Resp: 49876

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 23.755 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 5618

Ion	Ratio	Lower	Upper
43	100		
58	40.2	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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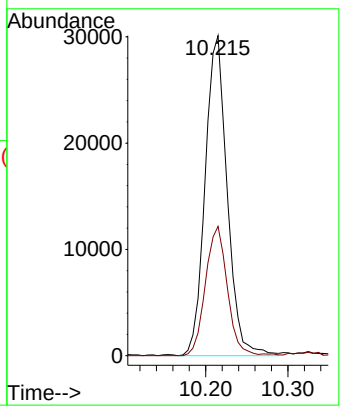
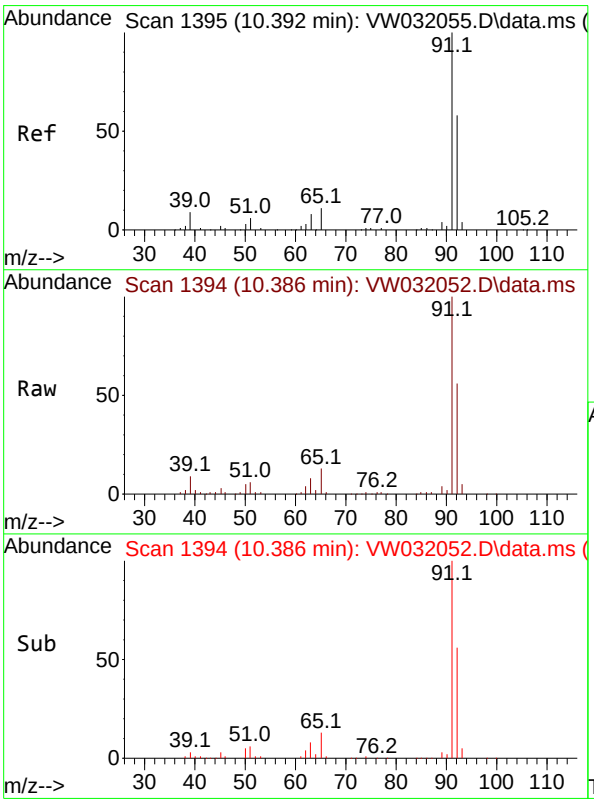
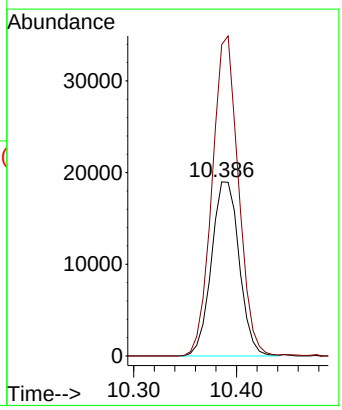


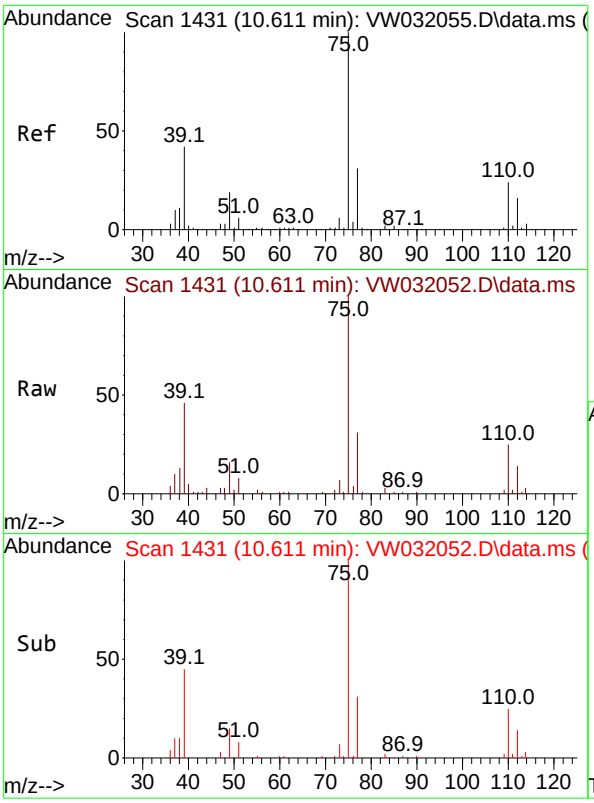


#52
Toluene
Concen: 4.692 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 92 Resp: 35525

Ion	Ratio	Lower	Upper
92	100		
91	175.5	136.3	204.5

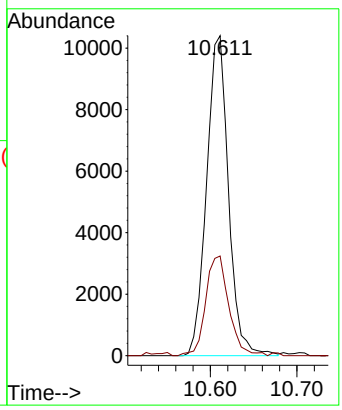




#53
t-1,3-Dichloropropene
Concen: 4.513 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 1825

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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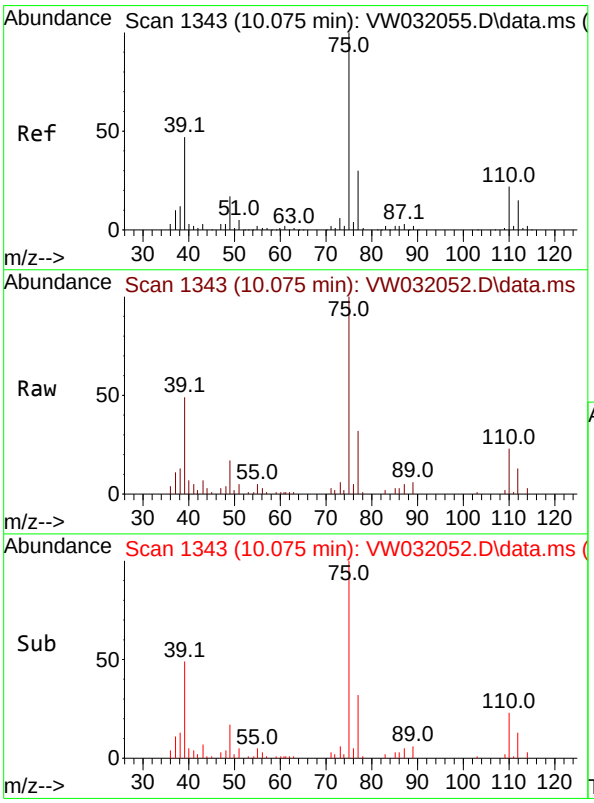
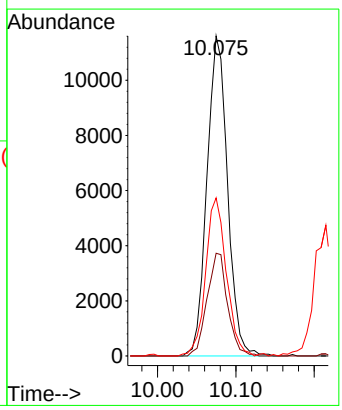
Supervised By :Semsettin Yesilyurt 08/12/2025

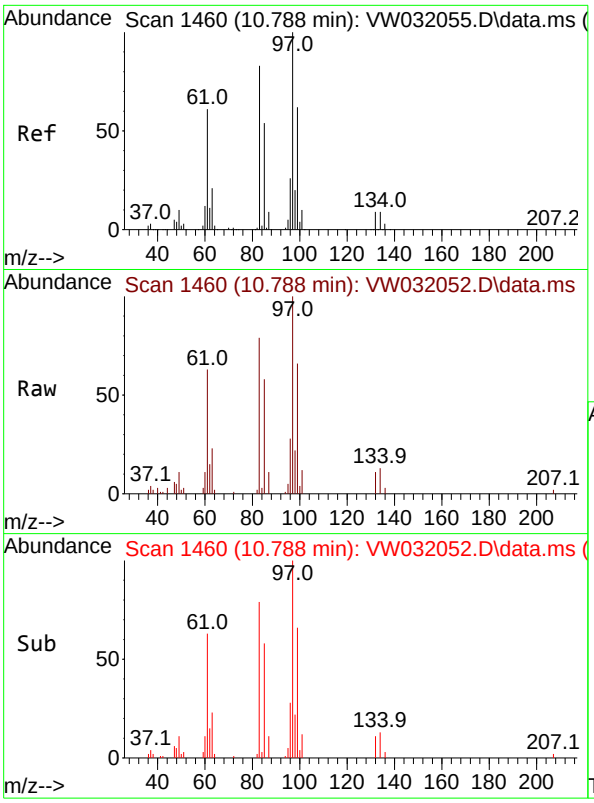


#54
cis-1,3-Dichloropropene
Concen: 4.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 21173

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	49.4	37.8	56.8

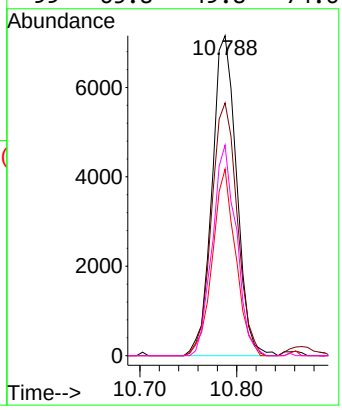




#55
1,1,2-Trichloroethane
Concen: 5.057 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 97 Resp: 1259

Ion	Ratio	Lower	Upper
97	100		
83	79.0	66.4	99.6
85	58.3	43.1	64.7
99	65.8	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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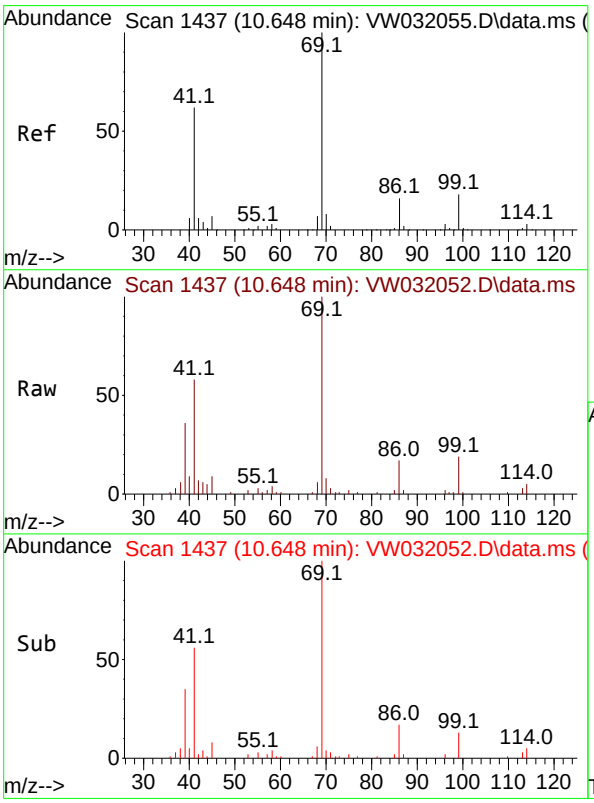
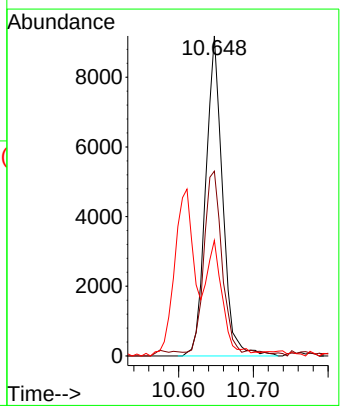
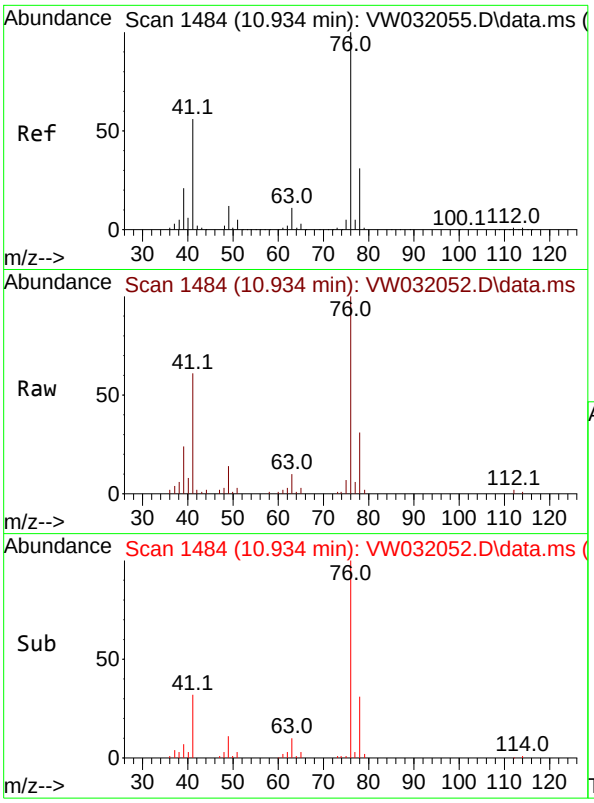


#56
Ethyl methacrylate
Concen: 4.317 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 69 Resp: 14387

Ion	Ratio	Lower	Upper
69	100		
41	59.2	51.2	76.8
39	32.8	25.4	38.0





#57
1,3-Dichloropropane
Concen: 4.988 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 76 Resp: 2165

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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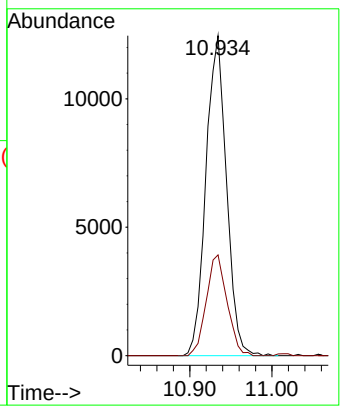
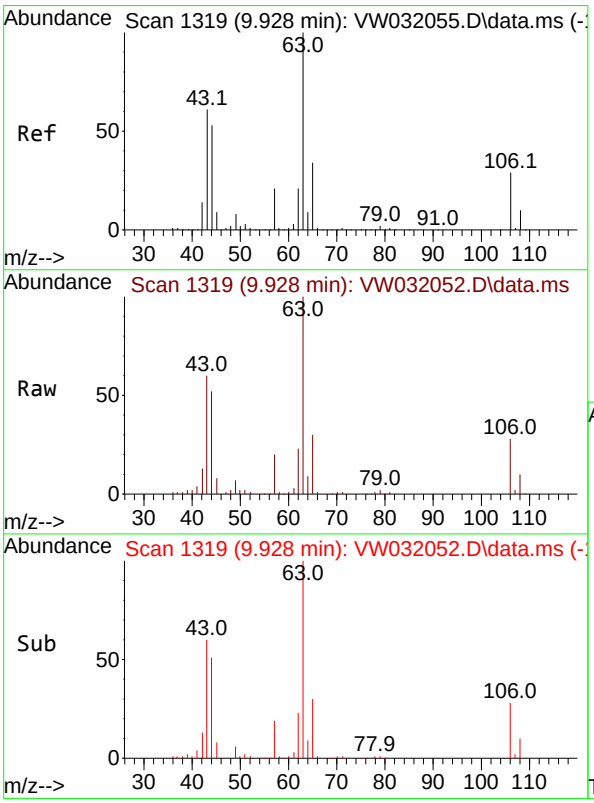
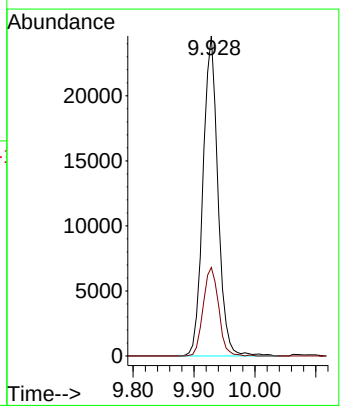


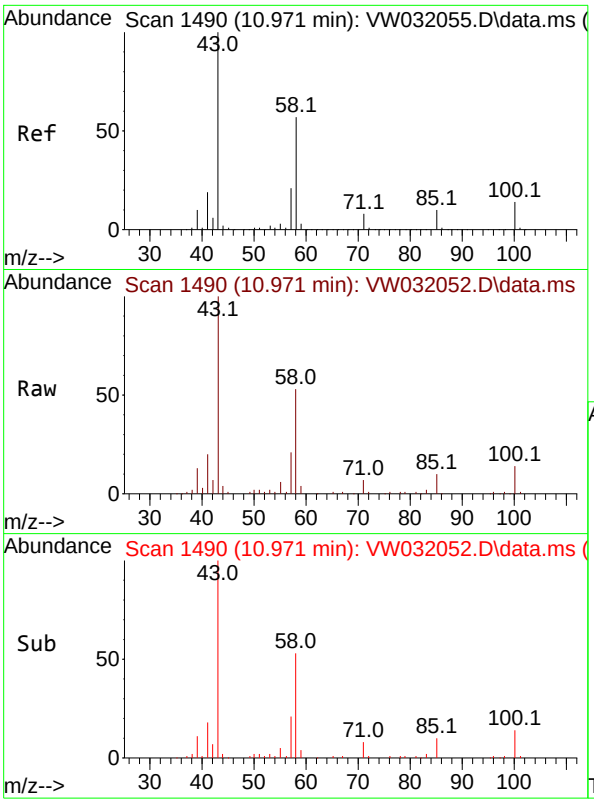


#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 41991

Ion	Ratio	Lower	Upper
63	100		
106	28.4	23.5	35.3





#59
2-Hexanone
Concen: 23.074 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 3779

Ion	Ratio	Lower	Upper
43	100		
58	53.3	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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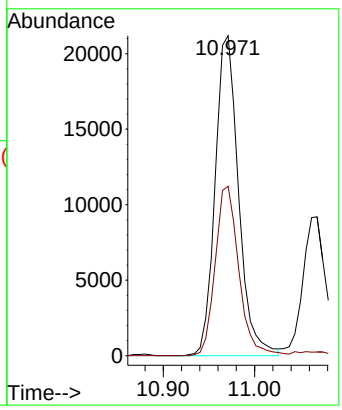
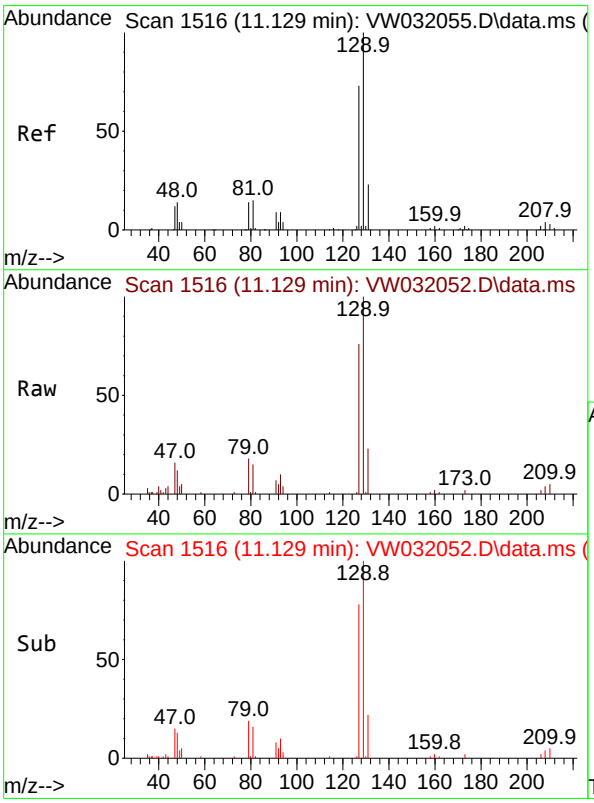
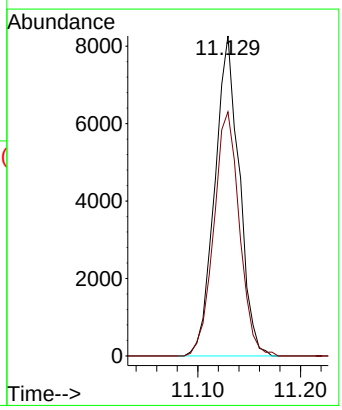


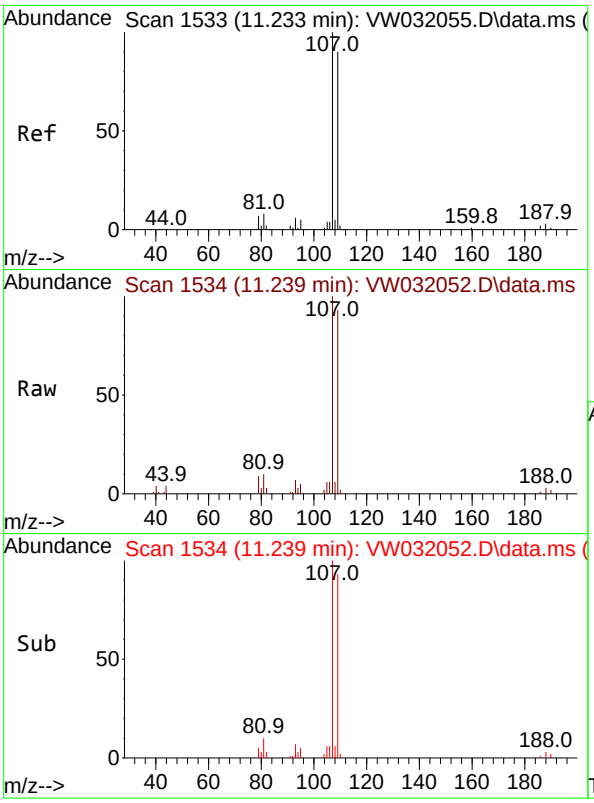


#60
Dibromochloromethane
Concen: 4.799 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:129 Resp: 13654

Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.0	116.9





#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:107 Resp: 1199

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.2	111.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
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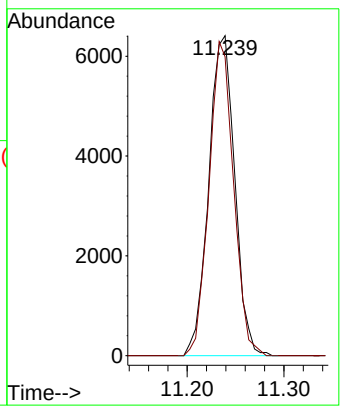
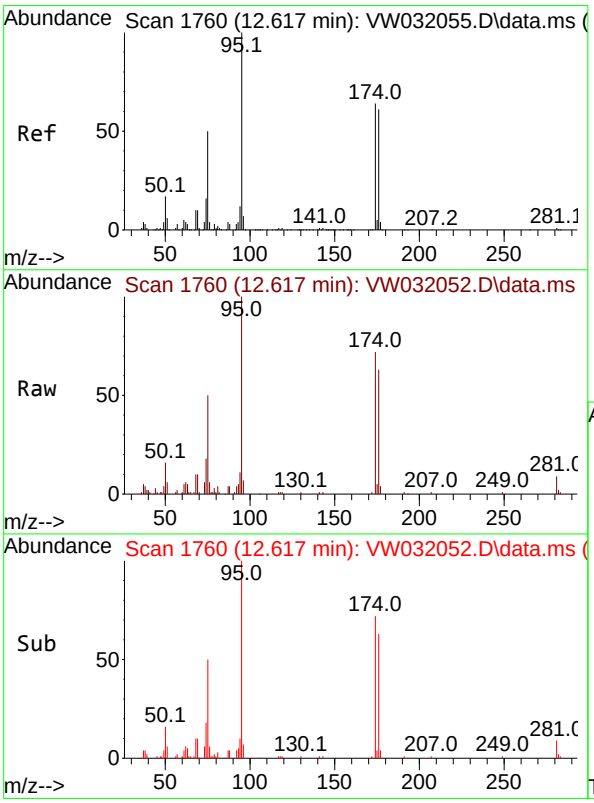
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

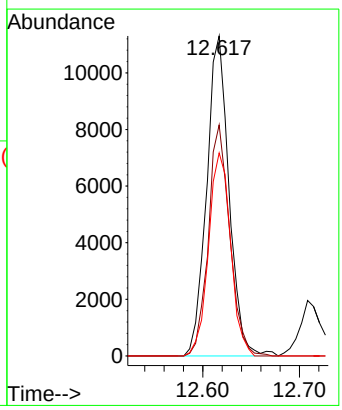


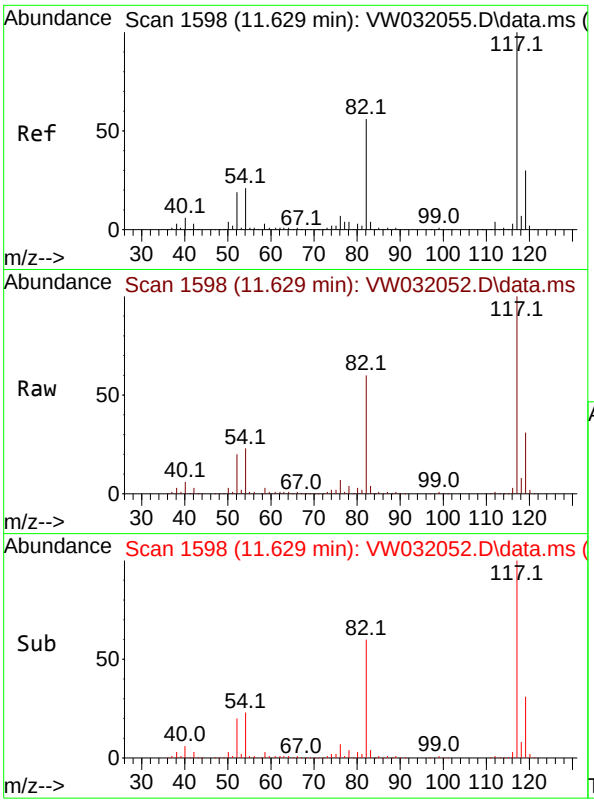


#62
4-Bromofluorobenzene
Concen: 4.863 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 95 Resp: 18184

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	129.0
176	62.7	0.0	124.6

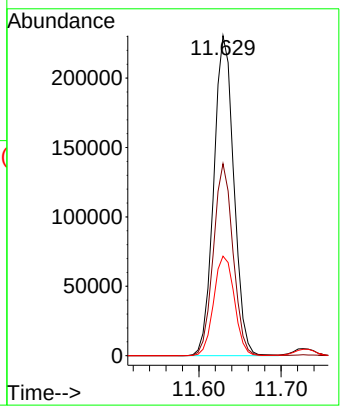




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 391234

Ion	Ratio	Lower	Upper
117	100		
82	60.0	45.0	67.4
119	31.1	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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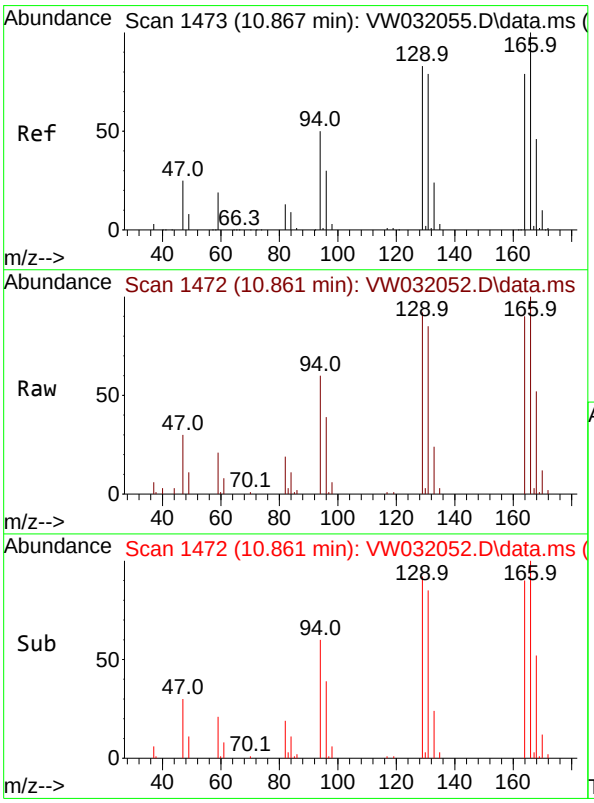
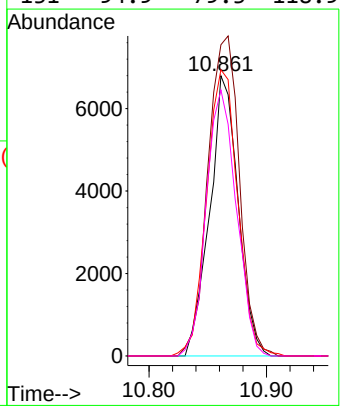
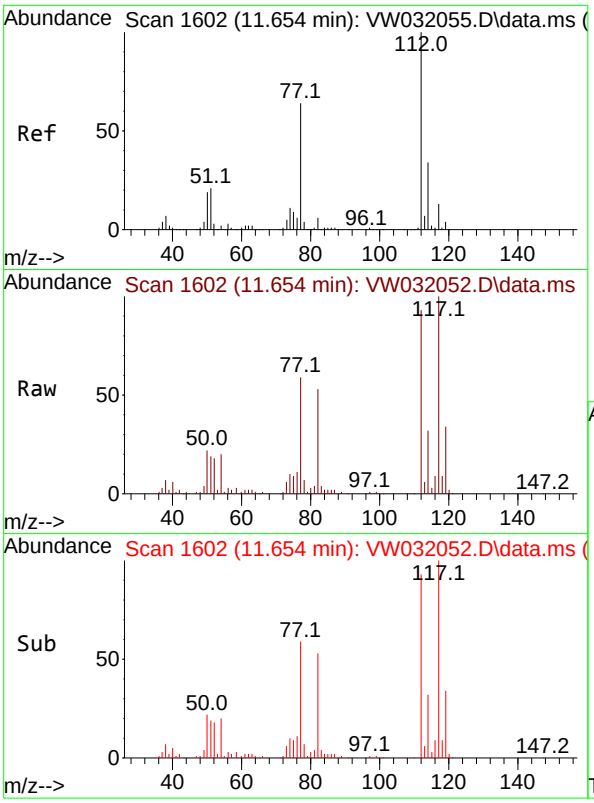


#64
Tetrachloroethene
Concen: 5.066 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:164 Resp: 11449

Ion	Ratio	Lower	Upper
164	100		
166	111.1	100.9	151.3
129	101.3	83.6	125.4
131	94.9	79.3	118.9





#65
Chlorobenzene
Concen: 5.110 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:112 Resp: 4351

Ion	Ratio	Lower	Upper
112	100		
114	34.6	26.9	40.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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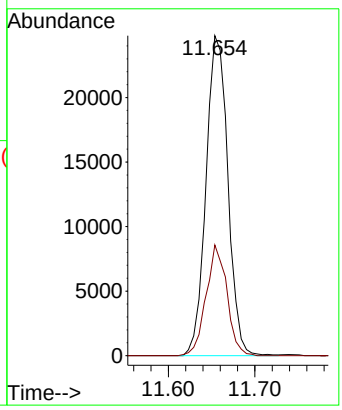
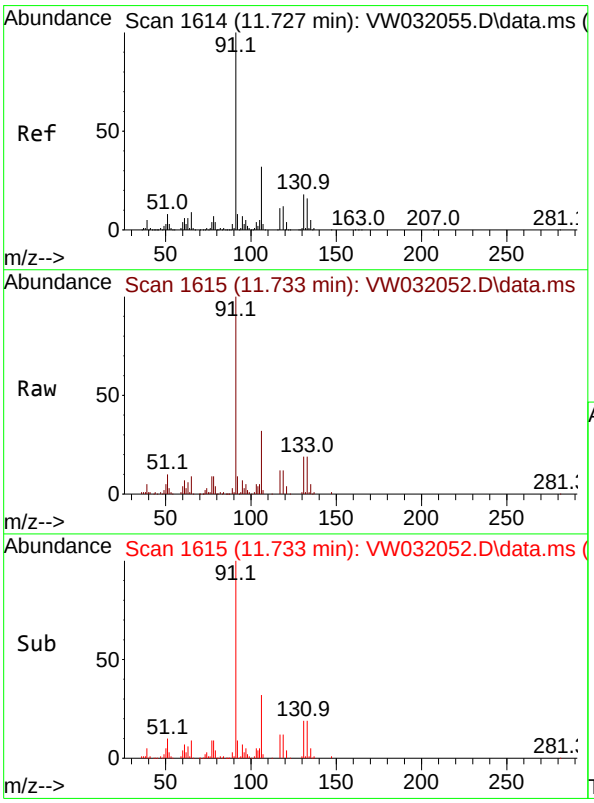
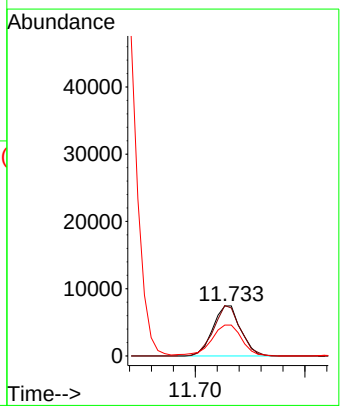


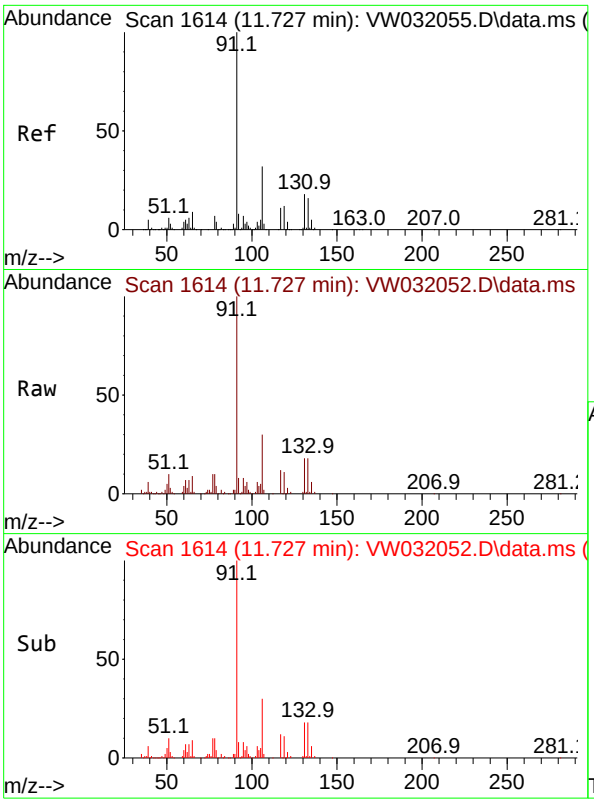


#66
1,1,1,2-Tetrachloroethane
Concen: 4.907 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:131 Resp: 13037

Ion	Ratio	Lower	Upper
131	100		
133	97.4	47.3	142.0
119	67.3	34.5	103.5





#67
Ethyl Benzene
Concen: 4.650 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 6707

Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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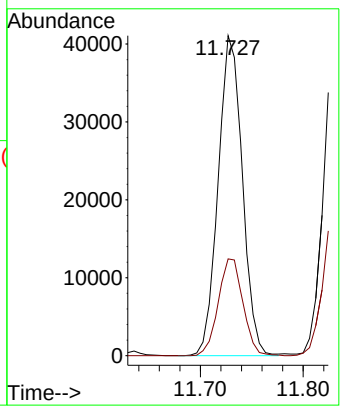
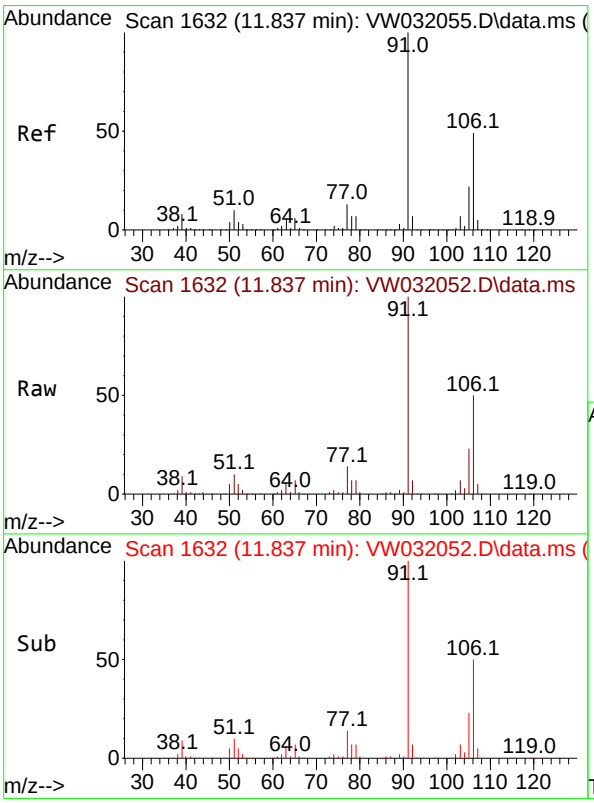
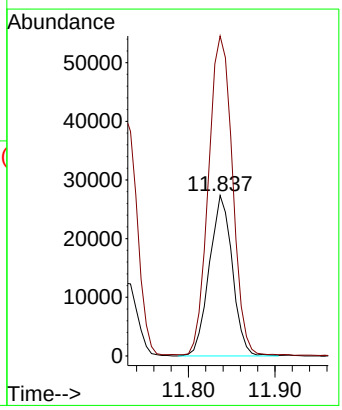


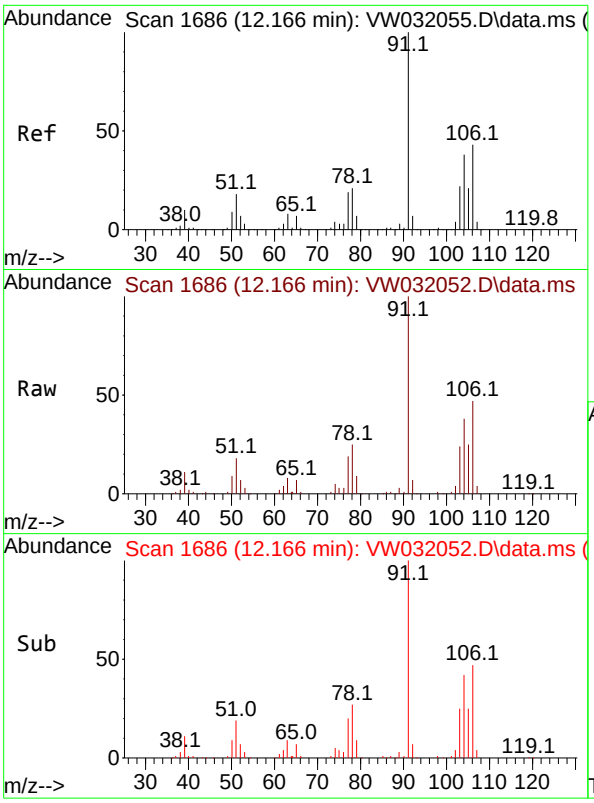


#68
m/p-Xylenes
Concen: 9.070 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 50482

Ion	Ratio	Lower	Upper
106	100		
91	209.1	162.2	243.2

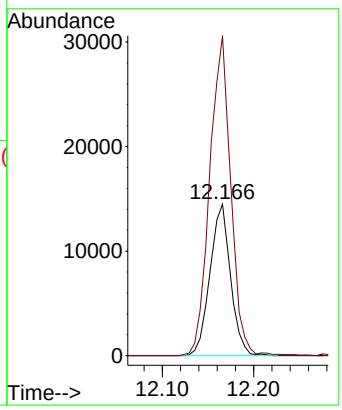




#69
o-Xylene
Concen: 4.393 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 2260

Ion	Ratio	Lower	Upper
106	100		
91	217.4	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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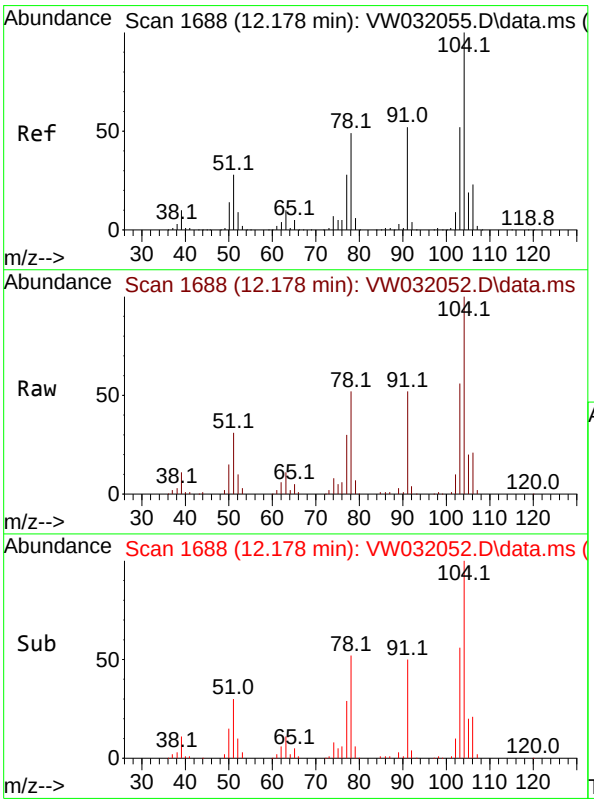
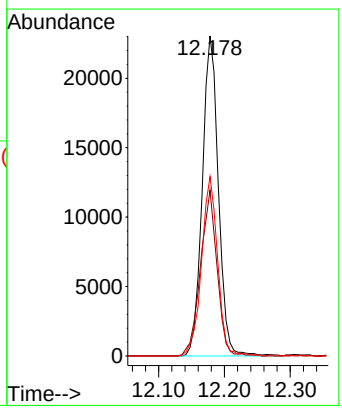
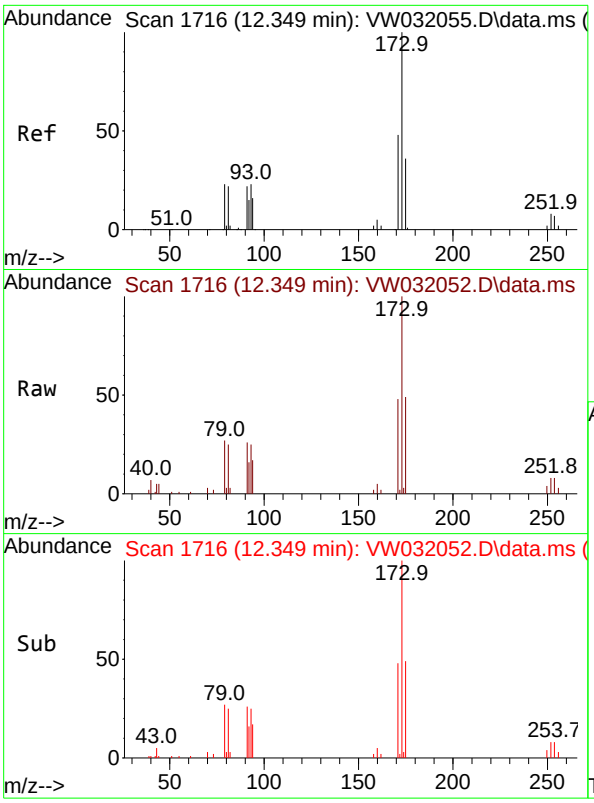


#70
Styrene
Concen: 4.300 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:104 Resp: 39288

Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.2	61.8
103	56.1	43.8	65.8

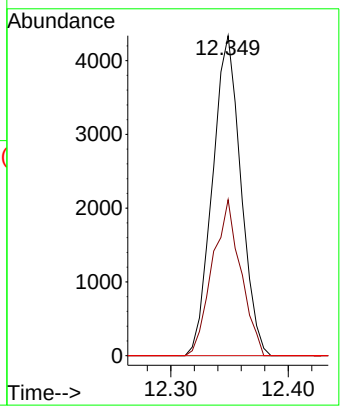




#71
Bromoform
Concen: 4.792 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:173 Resp: 728

Ion	Ratio	Lower	Upper
173	100		
175	48.9	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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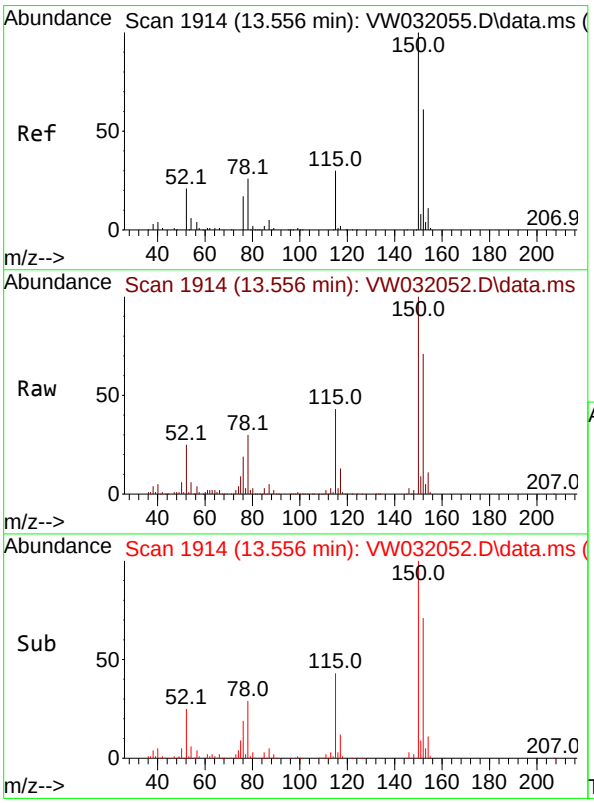
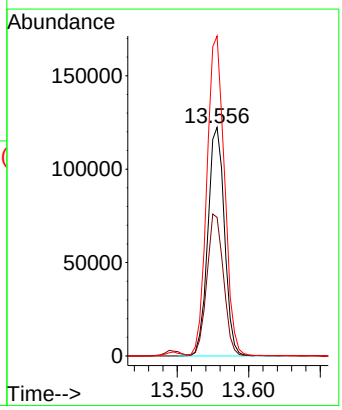
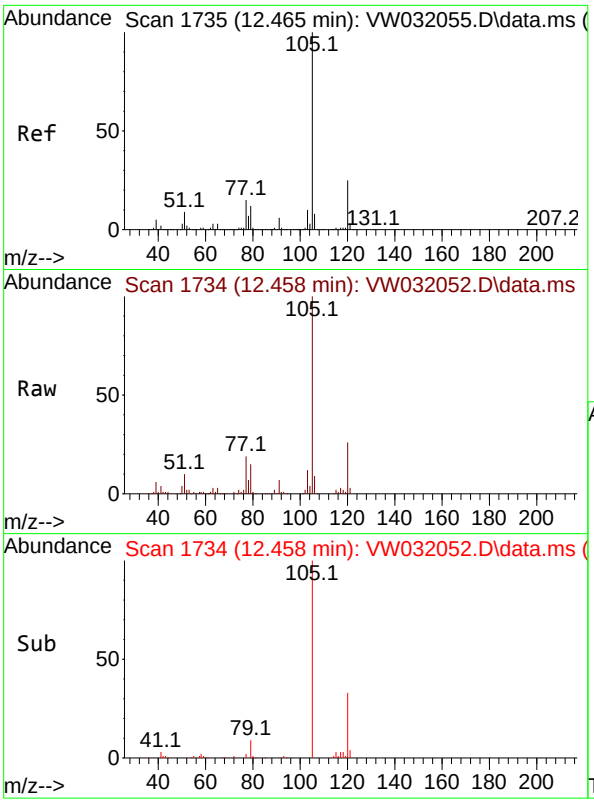


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:152 Resp: 196943

Ion	Ratio	Lower	Upper
152	100		
115	62.0	32.6	97.8
150	147.8	0.0	359.4

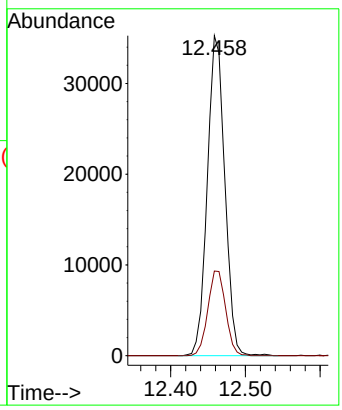




#73
Isopropylbenzene
Concen: 4.164 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 5730

Ion	Ratio	Lower	Upper
105	100		
120	26.8	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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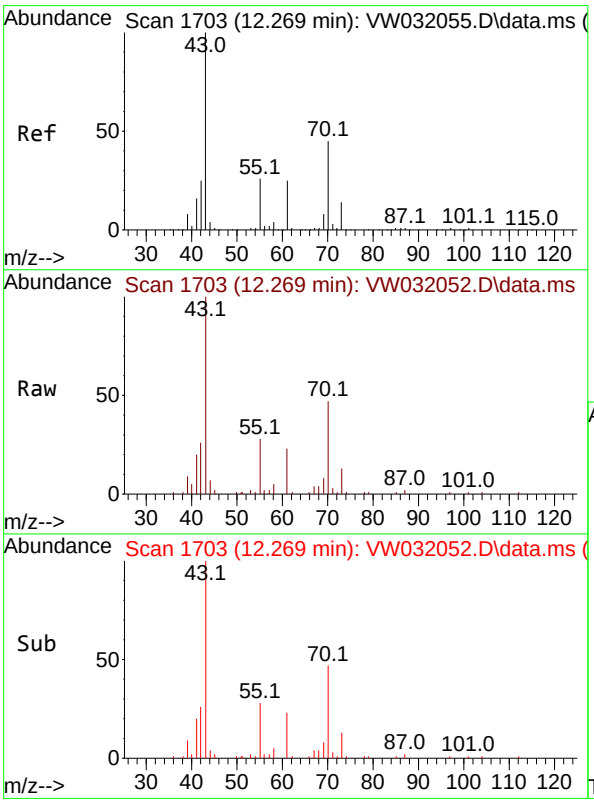
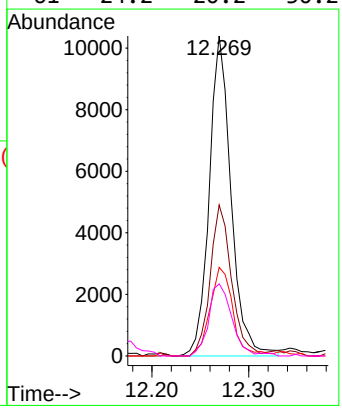
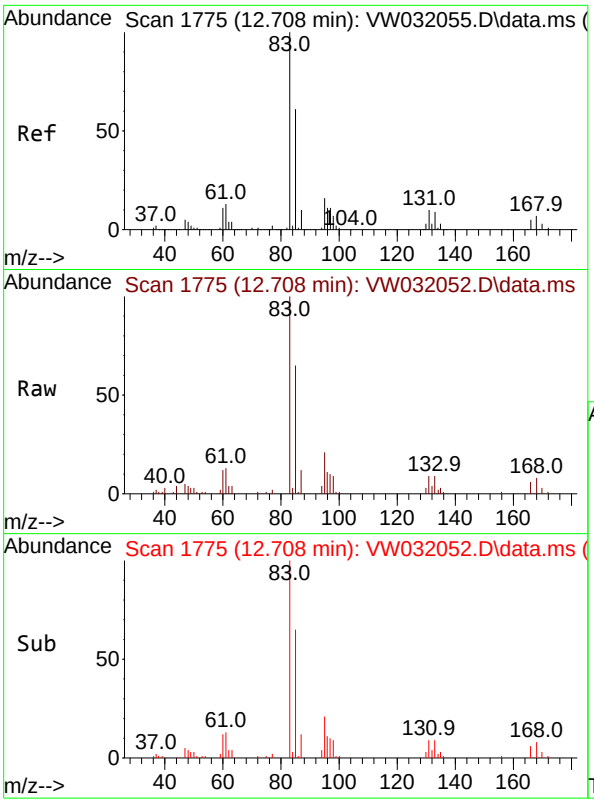


#74
N-amyl acetate
Concen: 4.135 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 16327

Ion	Ratio	Lower	Upper
43	100		
70	45.9	37.0	55.4
55	28.8	21.1	31.7
61	24.2	20.2	30.2

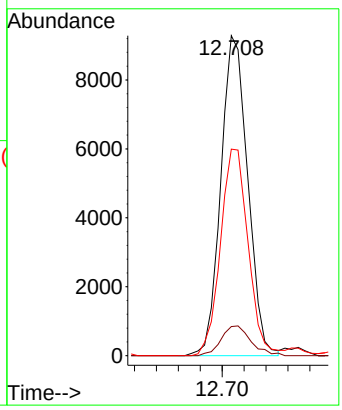




#75
1,1,2,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 1580

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	66.7	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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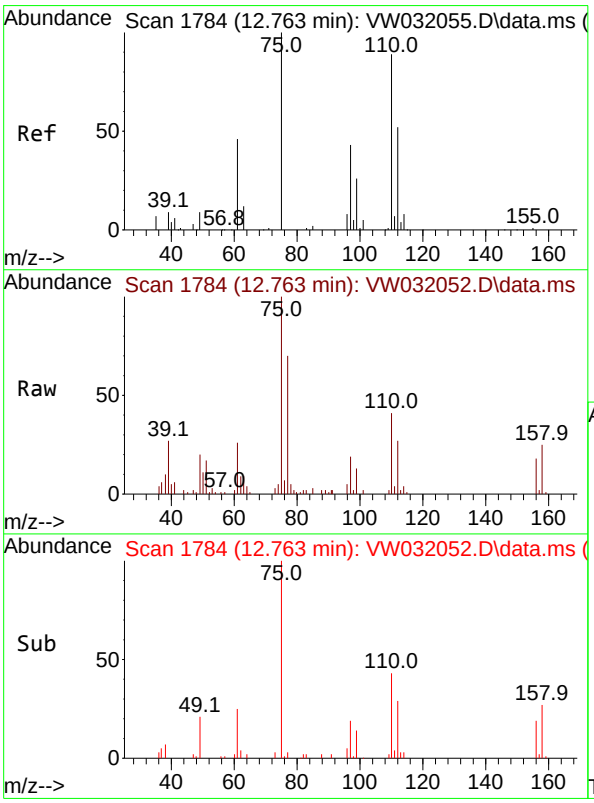
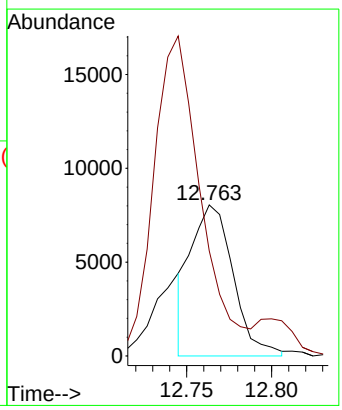
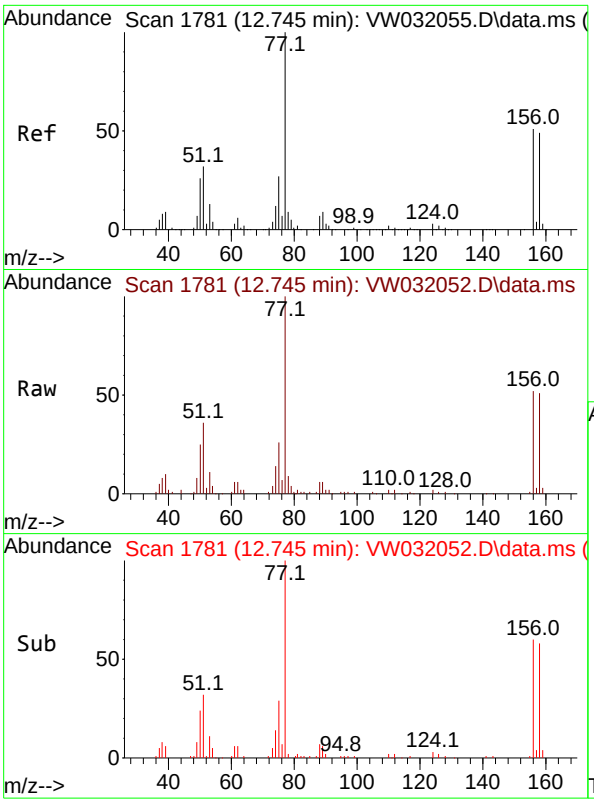


#76
1,2,3-Trichloropropane
Concen: 4.568 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 13829

Ion	Ratio	Lower	Upper
75	100		
77	238.4	123.5	370.5





#77
Bromobenzene
Concen: 4.471 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:156 Resp: 1469

Ion	Ratio	Lower	Upper
156	100		
77	224.3	108.7	326.3
158	97.7	48.3	144.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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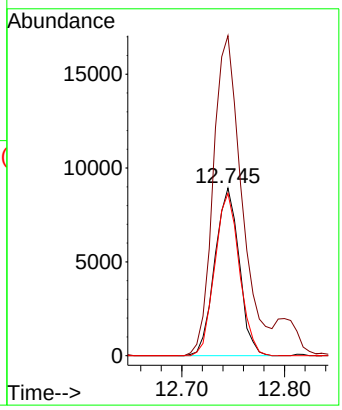
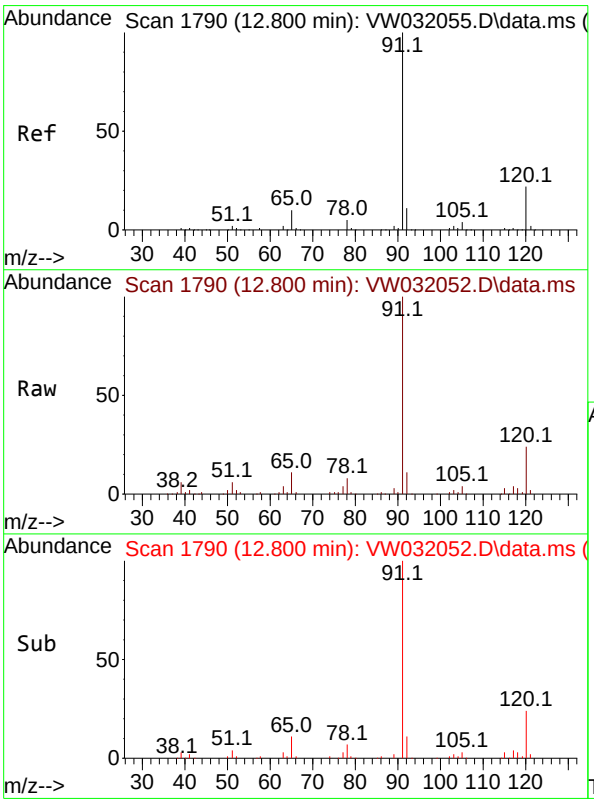
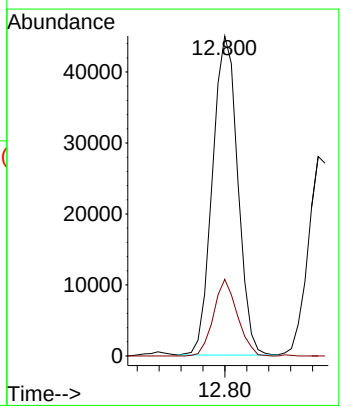


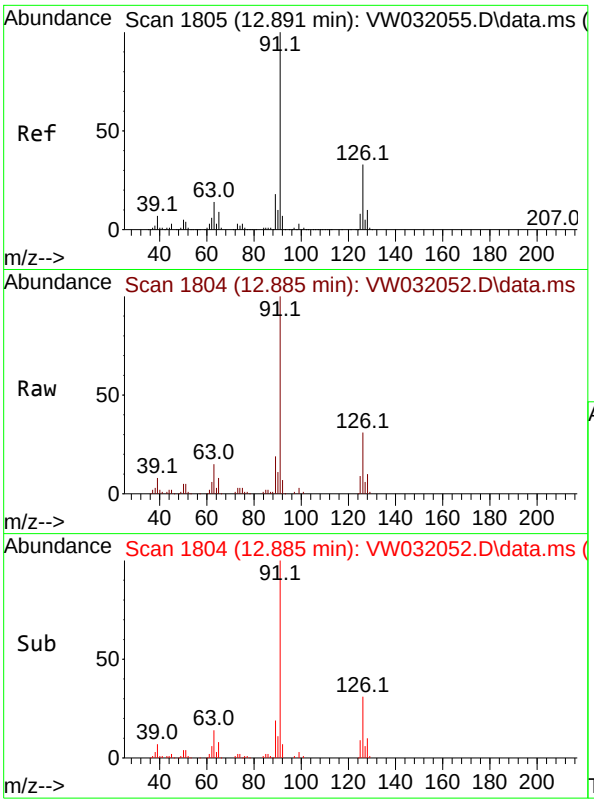


#78
n-propylbenzene
Concen: 4.257 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 72140

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3





#79
2-Chlorotoluene
Concen: 4.483 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 4687

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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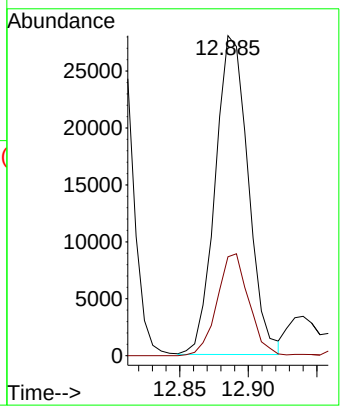
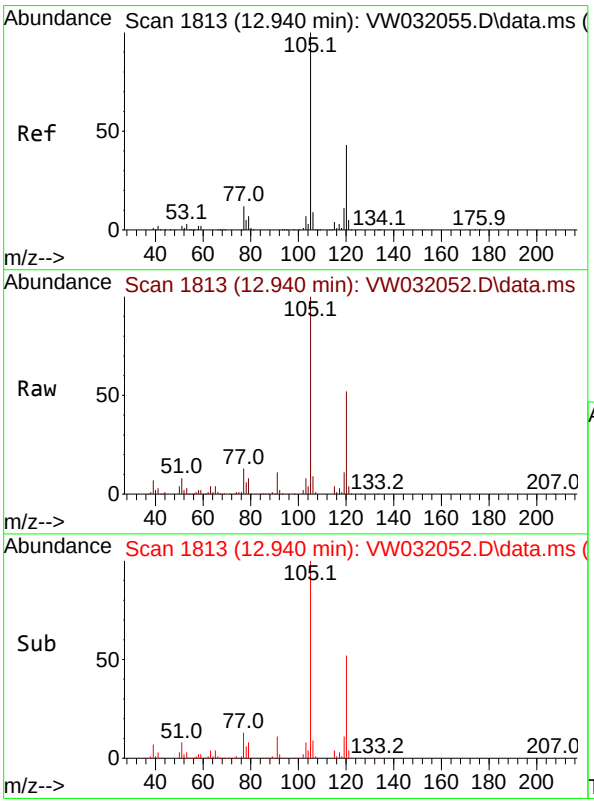
Supervised By :Semsettin Yesilyurt 08/12/2025

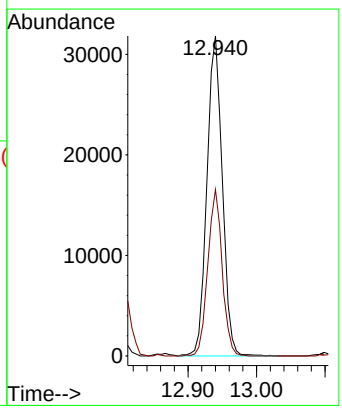


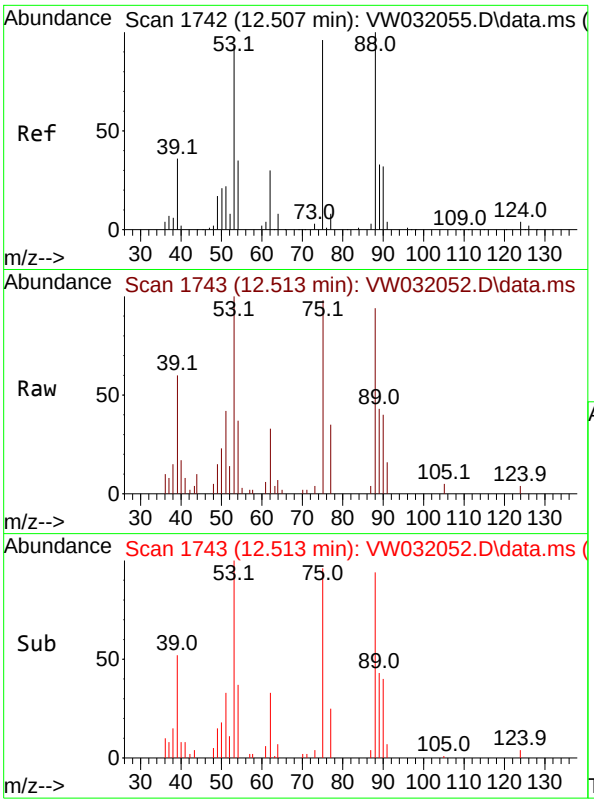


#80
1,3,5-Trimethylbenzene
Concen: 4.245 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49607

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 4.378 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

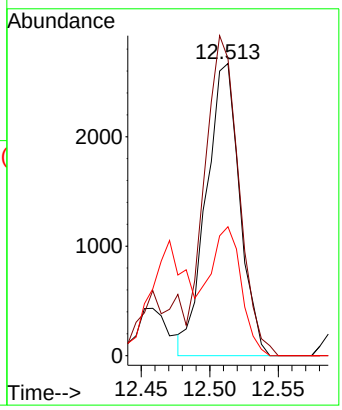
Tgt Ion: 75 Resp: 452

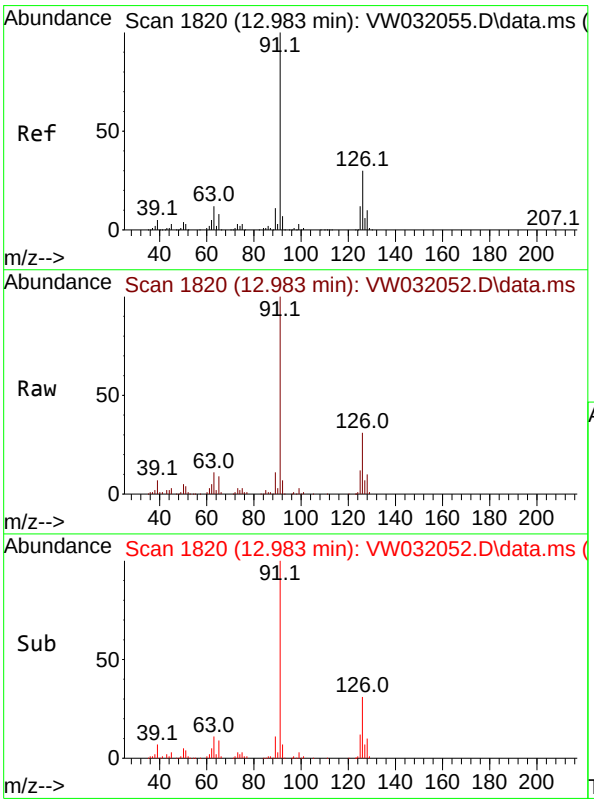
Ion	Ratio	Lower	Upper
75	100		
53	110.7	81.0	121.6
89	43.0	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

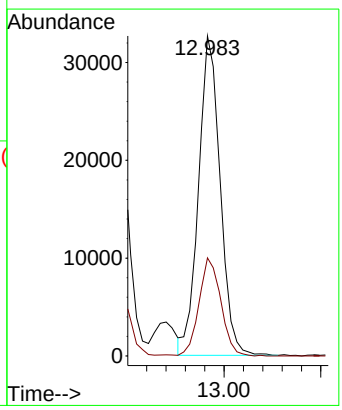


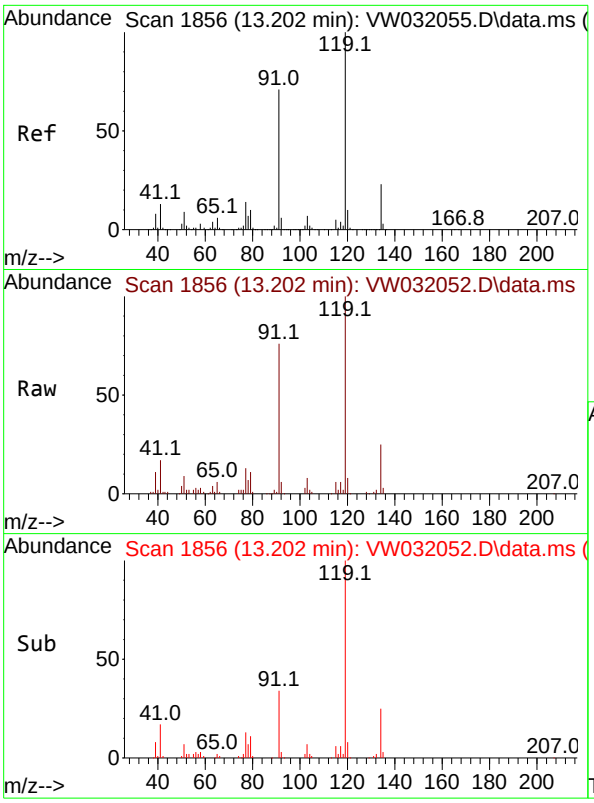


#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 50782

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.5	46.5

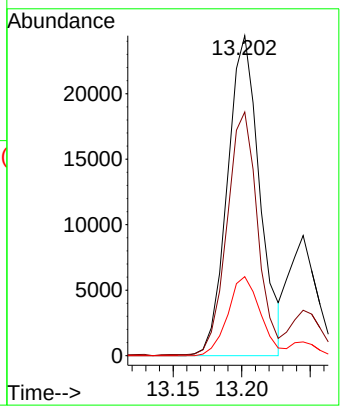




#83
tert-Butylbenzene
Concen: 4.124 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:119 Resp: 3999

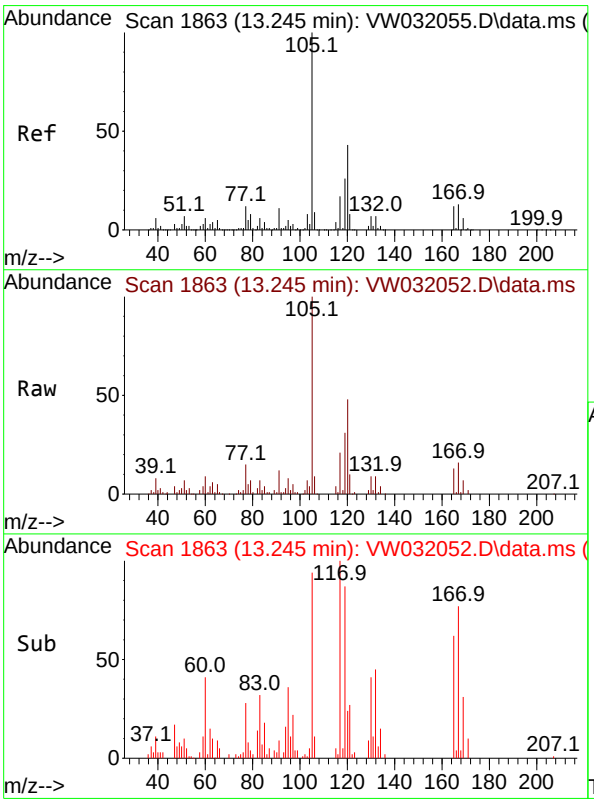
Ion	Ratio	Lower	Upper
119	100		
91	72.6	35.3	105.9
134	25.1	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

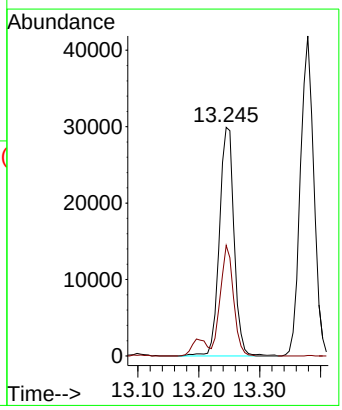
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

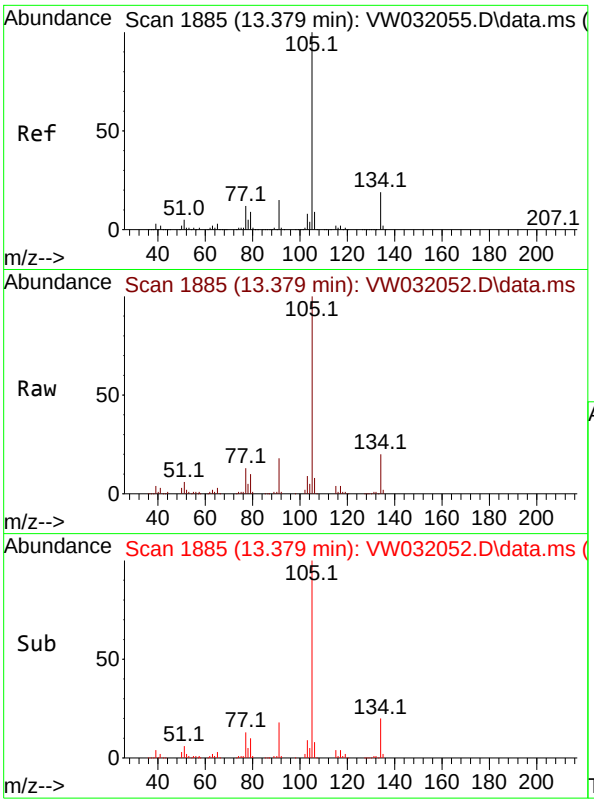


#84
1,2,4-Trimethylbenzene
Concen: 4.194 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49891

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	64.8





#85
sec-Butylbenzene
Concen: 4.382 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

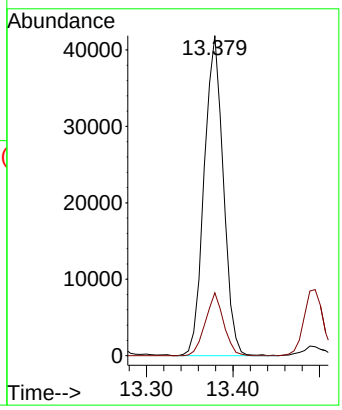
Tgt Ion:105 Resp: 6425

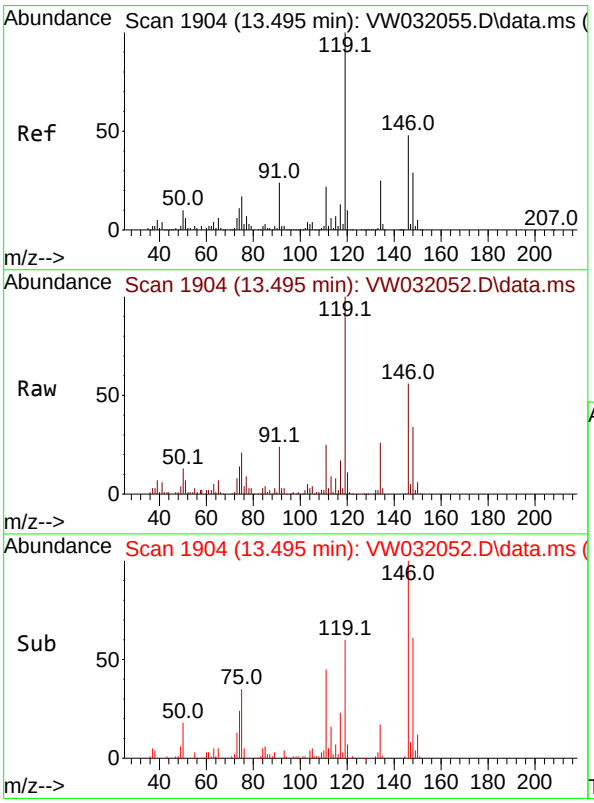
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

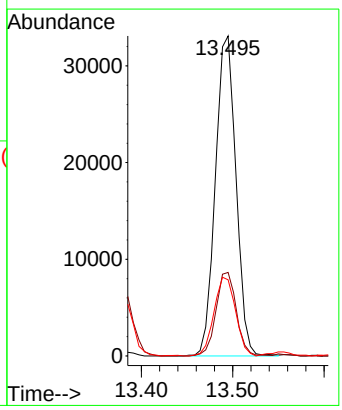


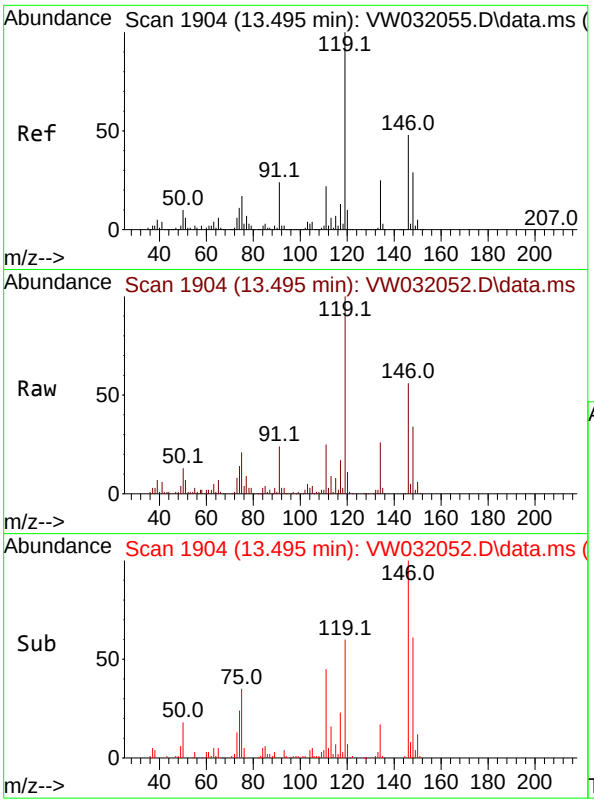


#86
p-Isopropyltoluene
Concen: 4.249 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:119 Resp: 51939

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.4	37.0
91	25.7	12.1	36.3

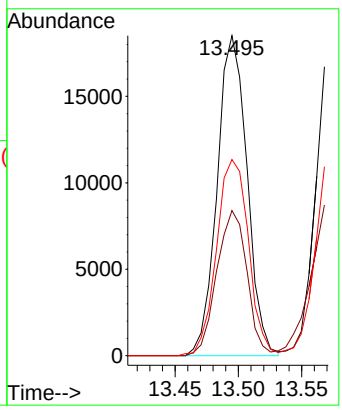




#87
1,3-Dichlorobenzene
Concen: 4.654 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 3044

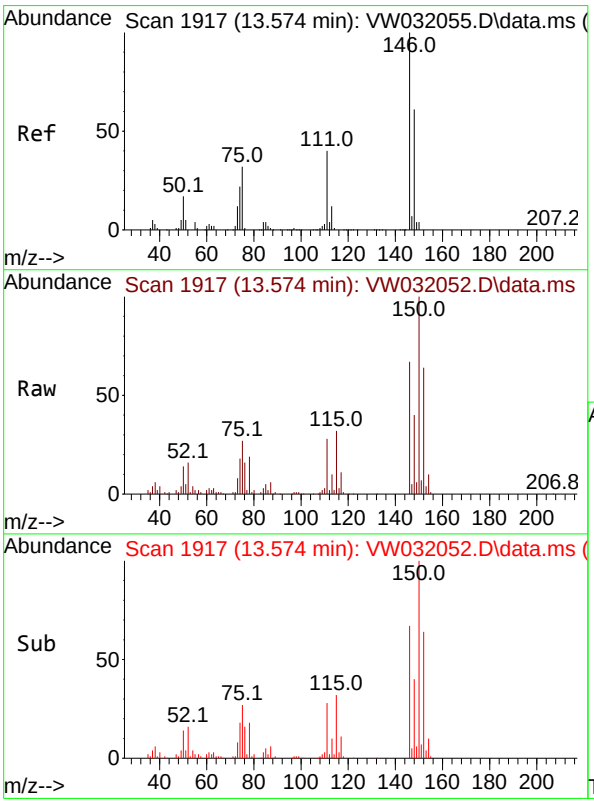
Ion	Ratio	Lower	Upper
146	100		
111	45.7	21.2	63.6
148	65.5	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

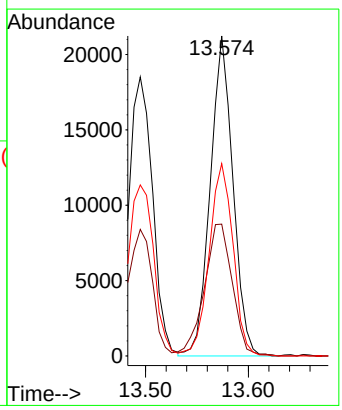
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

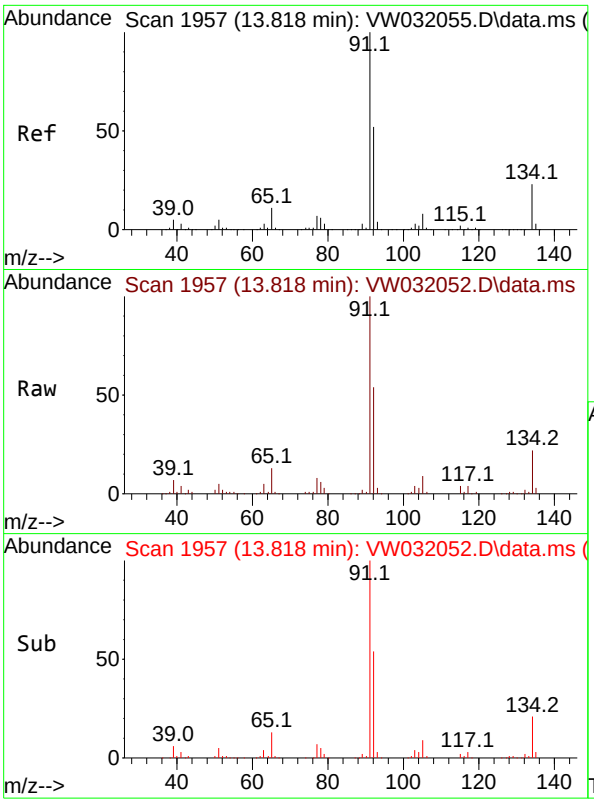


#88
1,4-Dichlorobenzene
Concen: 4.925 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 32554

Ion	Ratio	Lower	Upper
146	100		
111	51.0	21.6	64.6
148	63.5	32.0	96.2

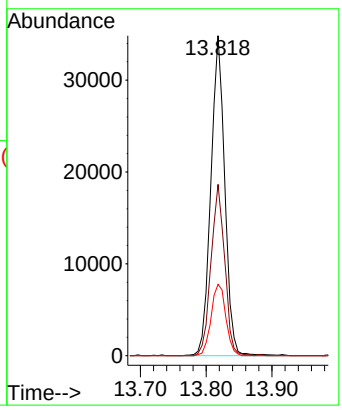




#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 5132

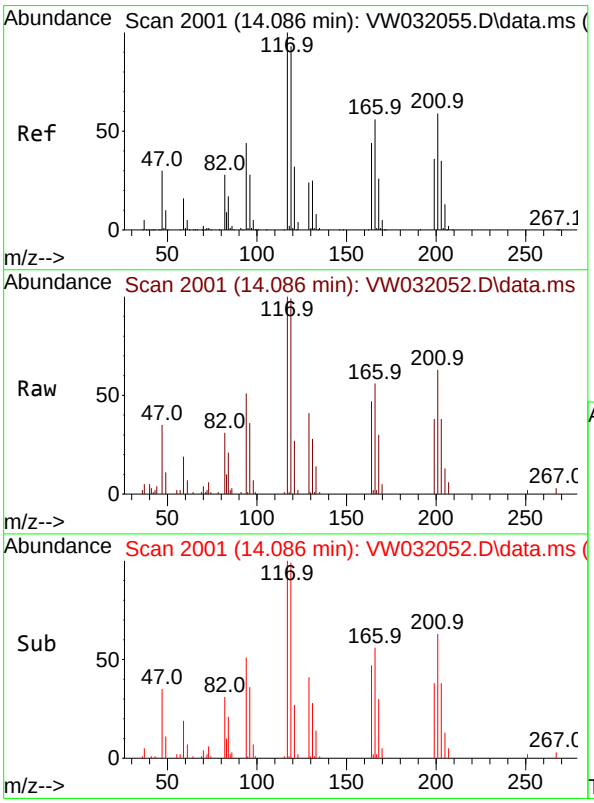
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.7	80.1
134	23.5	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

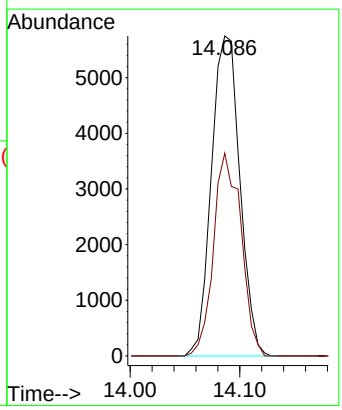
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

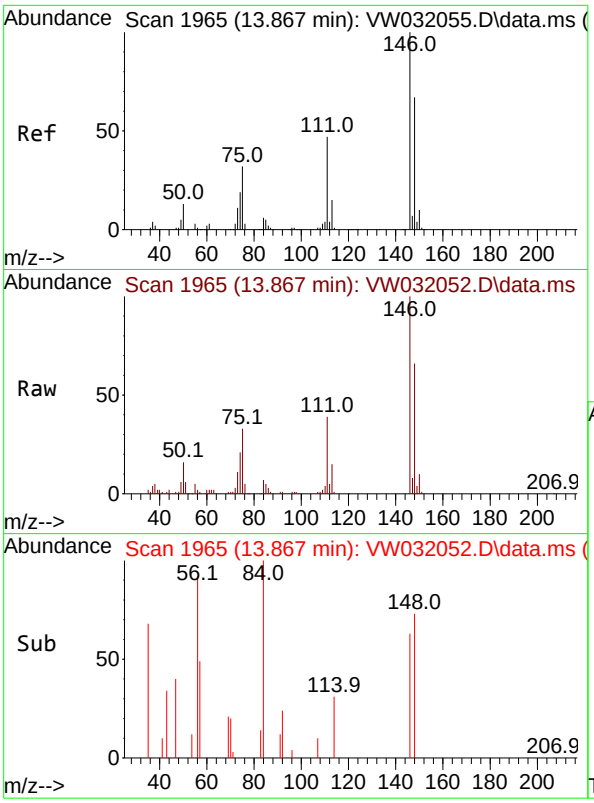


#90
Hexachloroethane
Concen: 4.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 10372

Ion	Ratio	Lower	Upper
117	100		
201	61.2	30.9	92.5

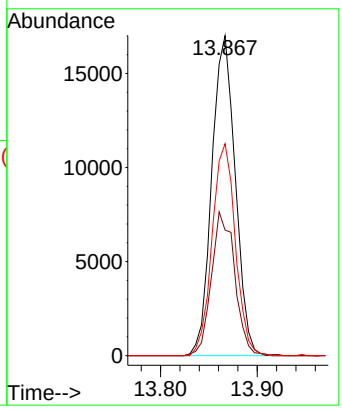




#91
1,2-Dichlorobenzene
Concen: 4.836 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 2865

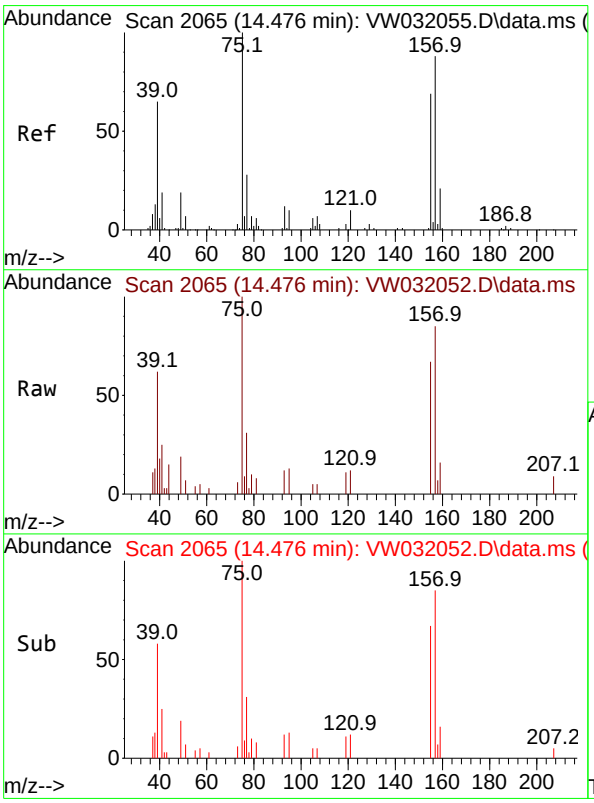
Ion	Ratio	Lower	Upper
146	100		
111	44.7	23.1	69.3
148	65.7	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

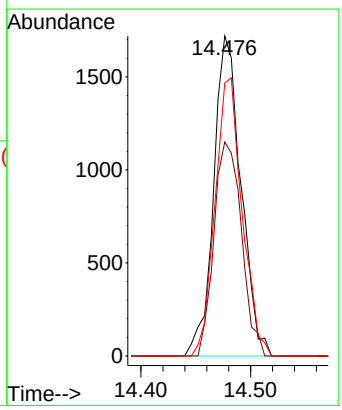
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

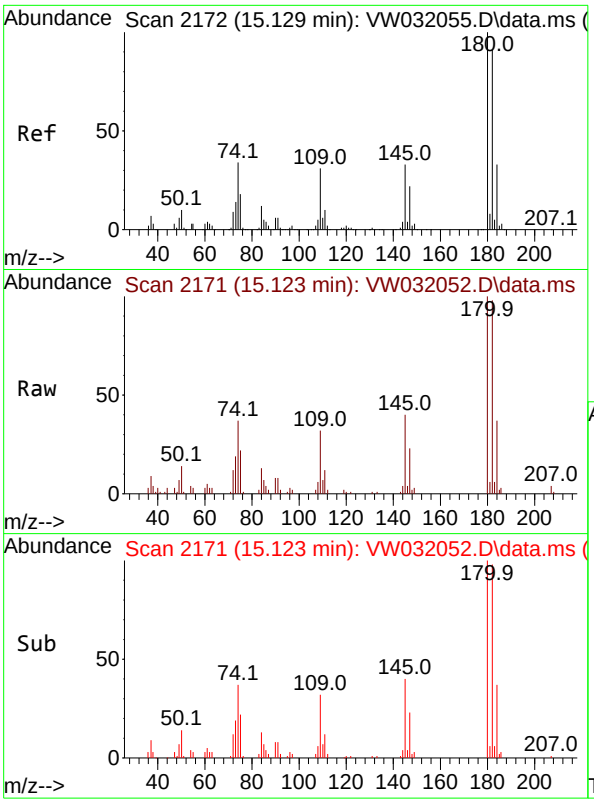


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.123 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 2976

Ion	Ratio	Lower	Upper
75	100		
155	67.4	35.2	105.6
157	86.2	47.5	142.6

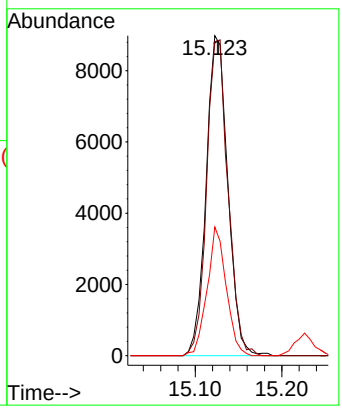




#93
1,2,4-Trichlorobenzene
Concen: 4.414 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:180 Resp: 1564

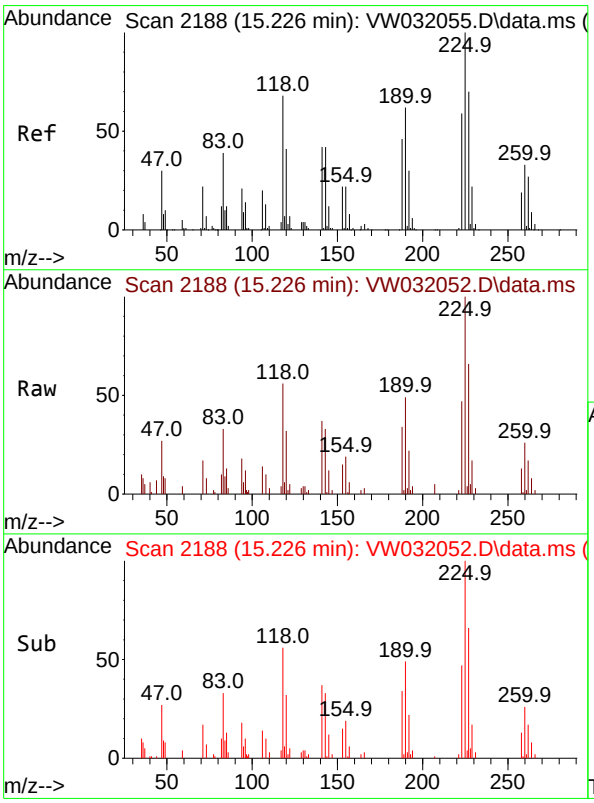
Ion	Ratio	Lower	Upper
180	100		
182	96.8	49.0	147.0
145	35.4	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

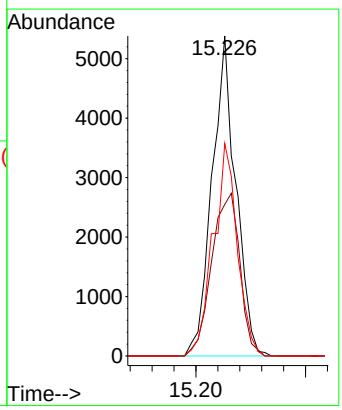
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

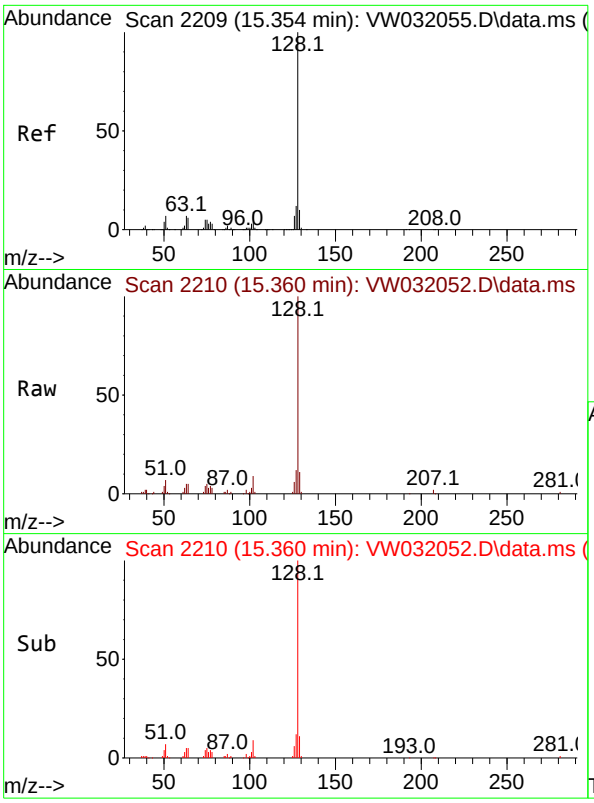


#94
Hexachlorobutadiene
Concen: 5.118 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:225 Resp: 8109

Ion	Ratio	Lower	Upper
225	100		
223	60.1	31.8	95.3
227	66.8	33.5	100.5

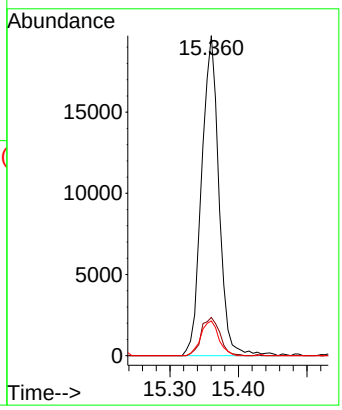




#95
Naphthalene
Concen: 3.991 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:128 Resp: 3466

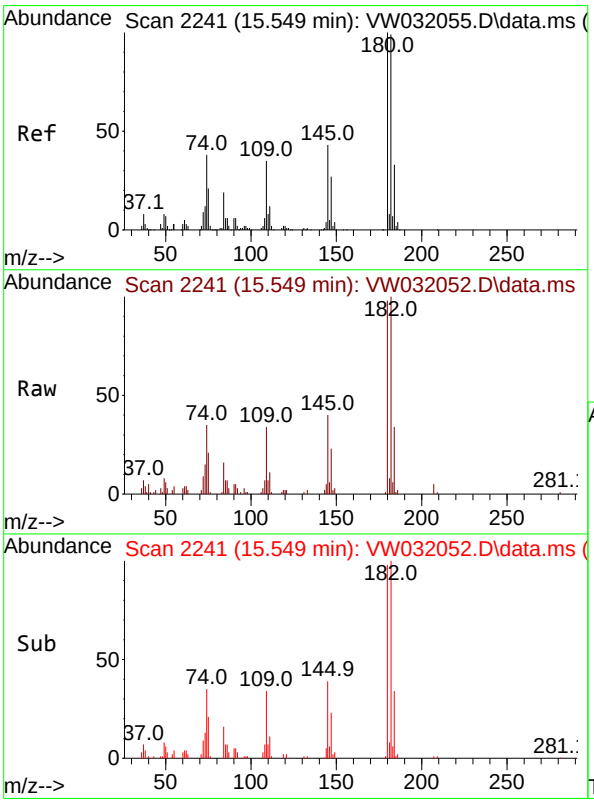
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.2	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

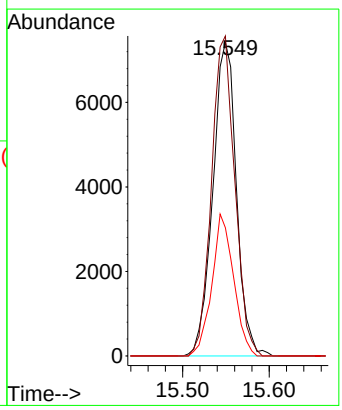
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.357 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:180 Resp: 14053

Ion	Ratio	Lower	Upper
180	100		
182	100.4	46.0	138.0
145	41.7	19.2	57.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	225221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	426784	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	385631	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	181281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	33671	10.337	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	20.680%#		
35) Dibromofluoromethane	7.904	113	27978	10.147	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	20.300%#		
50) Toluene-d8	10.331	98	100702	9.875	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	19.740%#		
62) 4-Bromofluorobenzene	12.617	95	36748	9.778	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	19.560%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.039	85	17258	10.714	ug/l	99
3) Chloromethane	2.253	50	21693	9.998	ug/l	91
4) Vinyl Chloride	2.405	62	27978	10.660	ug/l	92
5) Bromomethane	2.826	94	20345	10.332	ug/l	93
6) Chloroethane	2.966	64	17509	10.081	ug/l	98
7) Trichlorofluoromethane	3.301	101	19623	9.333	ug/l	99
8) Diethyl Ether	3.716	74	17227	10.000	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.100	101	25491	10.276	ug/l	99
10) Methyl Iodide	4.301	142	35515	10.098	ug/l	98
11) Tert butyl alcohol	5.228	59	10754	50.985	ug/l	98
12) 1,1-Dichloroethene	4.082	96	27944	10.231	ug/l	99
13) Acrolein	3.929	56	18650	55.493	ug/l	94
14) Allyl chloride	4.704	41	39114	9.839	ug/l	100
15) Acrylonitrile	5.405	53	42536	51.842	ug/l	100
16) Acetone	4.161	43	40816	54.122	ug/l	99
17) Carbon Disulfide	4.423	76	72806	9.931	ug/l	97
18) Methyl Acetate	4.716	43	27191	11.394	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	47872	9.947	ug/l	97
20) Methylene Chloride	4.960	84	35462	10.170	ug/l	95
21) trans-1,2-Dichloroethene	5.454	96	28875	9.962	ug/l	93
22) Diisopropyl ether	6.344	45	84045	10.029	ug/l	97
23) Vinyl Acetate	6.283	43	259050	47.081	ug/l	99
24) 1,1-Dichloroethane	6.240	63	54051	10.095	ug/l	98
25) 2-Butanone	7.197	43	54327	50.685	ug/l	98
26) 2,2-Dichloropropane	7.185	77	27463	10.224	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	33173	9.791	ug/l	99
28) Bromochloromethane	7.532	49	24412	10.019	ug/l	99
29) Tetrahydrofuran	7.557	42	35909	50.800	ug/l	99
30) Chloroform	7.697	83	57170	10.071	ug/l	99
31) Cyclohexane	7.971	56	48633	10.477	ug/l #	95
32) 1,1,1-Trichloroethane	7.886	97	42747	10.368	ug/l	97
36) 1,1-Dichloropropene	8.093	75	38994	10.032	ug/l	99
37) Ethyl Acetate	7.276	43	23053	10.070	ug/l	96
38) Carbon Tetrachloride	8.081	117	37535	10.007	ug/l	91
39) Methylcyclohexane	9.343	83	46100	9.731	ug/l	96
40) Benzene	8.337	78	121462	10.053	ug/l	95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	11729	9.035	ug/l	#	90
42) 1,2-Dichloroethane	8.410	62	39882	10.316	ug/l		100
43) Isopropyl Acetate	8.435	43	41036	9.743	ug/l		98
44) Trichloroethene	9.105	130	28498	9.905	ug/l		99
45) 1,2-Dichloropropane	9.374	63	29199	10.004	ug/l		98
46) Dibromomethane	9.471	93	18653	9.901	ug/l		98
47) Bromodichloromethane	9.654	83	42618	9.818	ug/l		98
48) Methyl methacrylate	9.441	41	19654	9.666	ug/l		98
49) 1,4-Dioxane	9.465	88	4684	192.302	ug/l		99
51) 4-Methyl-2-Pentanone	10.215	43	121419	51.075	ug/l		99
52) Toluene	10.392	92	75250	9.888	ug/l		100
53) t-1,3-Dichloropropene	10.605	75	38397	9.441	ug/l		96
54) cis-1,3-Dichloropropene	10.075	75	44031	9.543	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	25277	10.097	ug/l		96
56) Ethyl methacrylate	10.648	69	31022	9.260	ug/l		97
57) 1,3-Dichloropropane	10.934	76	44743	10.254	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	88627	47.830	ug/l		100
59) 2-Hexanone	10.971	43	82830	50.310	ug/l		97
60) Dibromochloromethane	11.129	129	27954	9.776	ug/l		100
61) 1,2-Dibromoethane	11.239	107	24146	9.926	ug/l		99
64) Tetrachloroethene	10.867	164	23235	10.431	ug/l		90
65) Chlorobenzene	11.660	112	86096	10.257	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.733	131	26286	10.037	ug/l		97
67) Ethyl Benzene	11.733	91	139254	9.794	ug/l		98
68) m/p-Xylenes	11.837	106	108990	19.866	ug/l		98
69) o-Xylene	12.166	106	49259	9.714	ug/l		97
70) Styrene	12.184	104	87542	9.719	ug/l		99
71) Bromoform	12.349	173	14547	9.711	ug/l	#	97
73) Isopropylbenzene	12.464	105	125246	9.886	ug/l		98
74) N-amyl acetate	12.269	43	35636	9.804	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.714	83	31581	10.499	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	25489m	9.147	ug/l		
77) Bromobenzene	12.745	156	31656	10.462	ug/l		98
78) n-propylbenzene	12.800	91	156266	10.019	ug/l		98
79) 2-Chlorotoluene	12.891	91	96942	10.071	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	108123	10.053	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.513	75	8936	9.403	ug/l		90
82) 4-Chlorotoluene	12.989	91	103329	10.103	ug/l		100
83) tert-Butylbenzene	13.202	119	86848	9.729	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	110697	10.110	ug/l		99
85) sec-Butylbenzene	13.379	105	131663	9.756	ug/l		98
86) p-Isopropyltoluene	13.495	119	110557	9.827	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	62383	10.361	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	62843	10.328	ug/l		98
89) n-Butylbenzene	13.818	91	108004	9.881	ug/l		99
90) Hexachloroethane	14.086	117	20175	9.805	ug/l		96
91) 1,2-Dichlorobenzene	13.867	146	56501	10.359	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.482	75	5305	9.920	ug/l		95
93) 1,2,4-Trichlorobenzene	15.129	180	31816	9.751	ug/l		97
94) Hexachlorobutadiene	15.232	225	14987	10.276	ug/l		98
95) Naphthalene	15.360	128	76287	9.542	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	28678	9.660	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

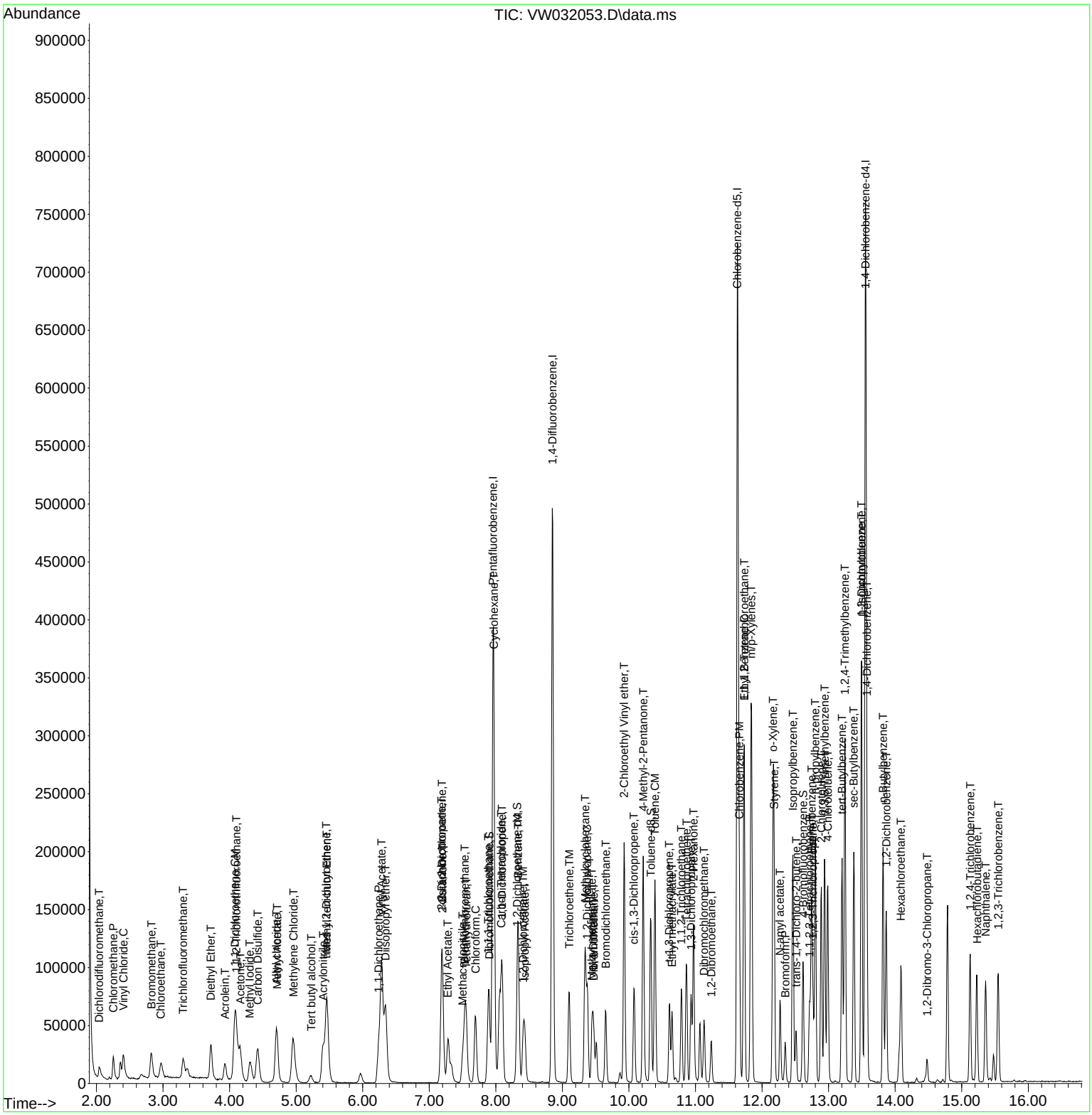
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

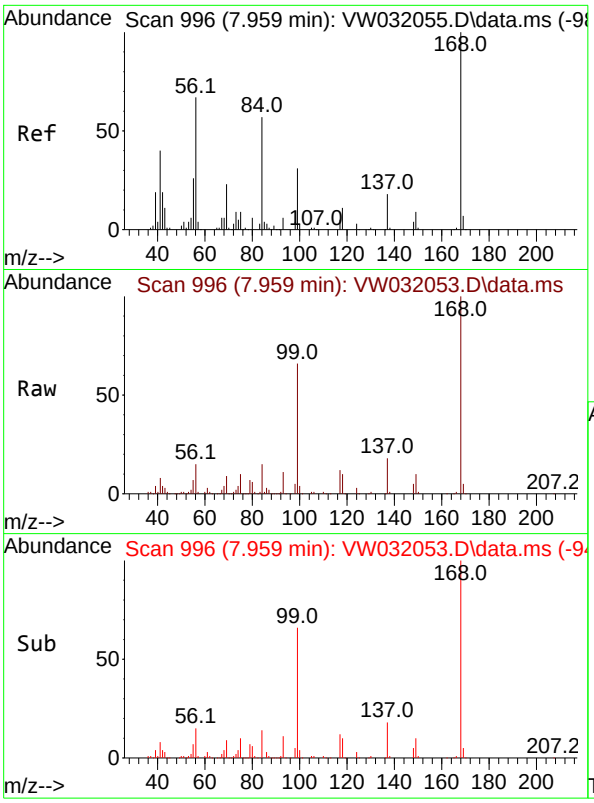
Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

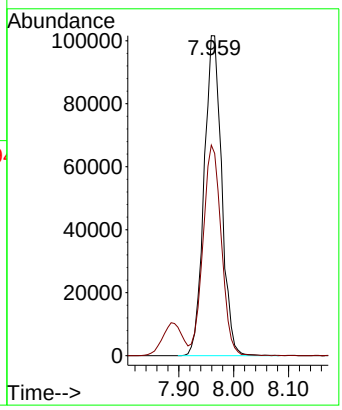




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:168 Resp: 22522

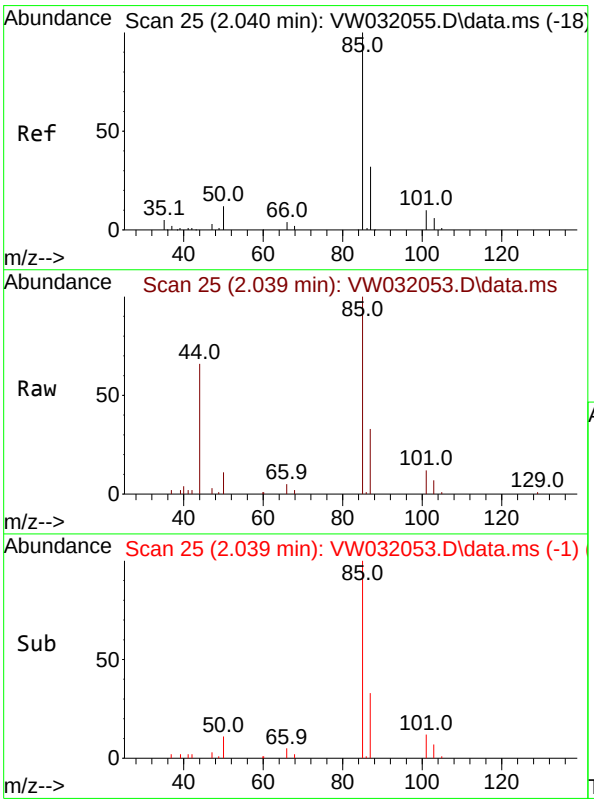
Ion	Ratio	Lower	Upper
168	100		
99	65.7	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

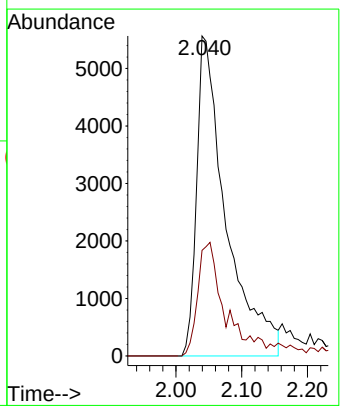
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

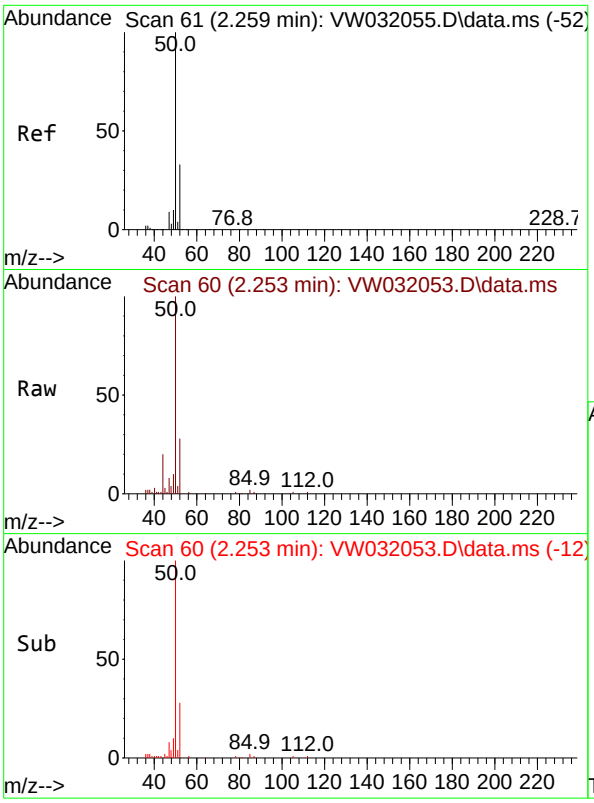


#2
Dichlorodifluoromethane
Concen: 10.714 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 85 Resp: 17258

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.2	48.6





#3
Chloromethane
Concen: 9.998 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

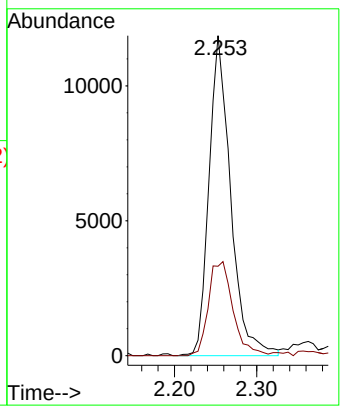
Tgt Ion: 50 Resp: 2169

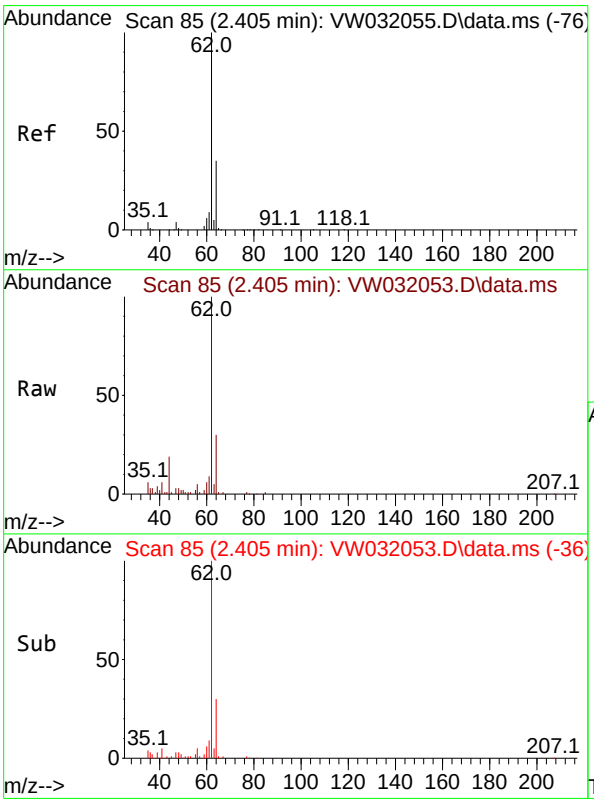
Ion	Ratio	Lower	Upper
50	100		
52	27.9	26.6	39.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

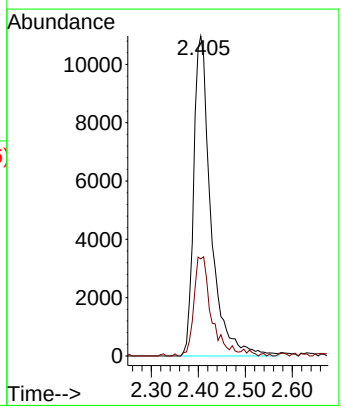


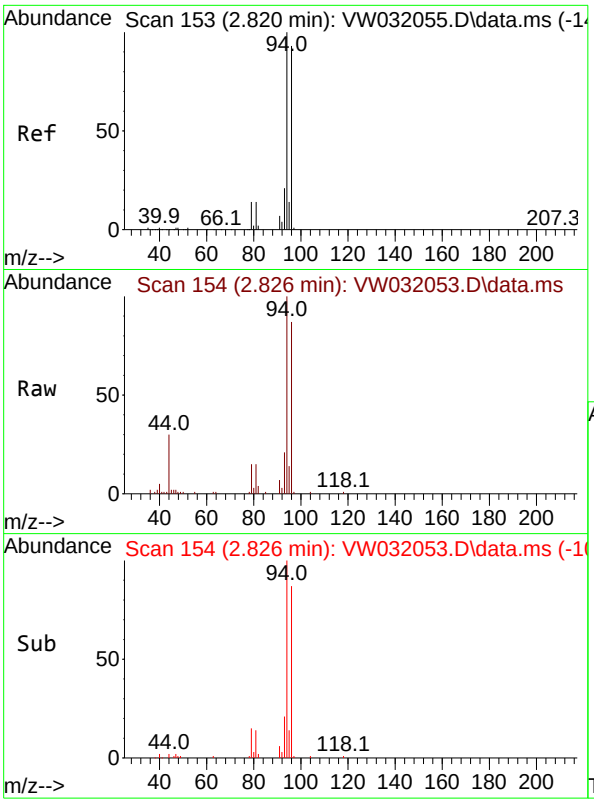


#4
Vinyl Chloride
Concen: 10.660 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 27978

Ion	Ratio	Lower	Upper
62	100		
64	30.3	27.8	41.6

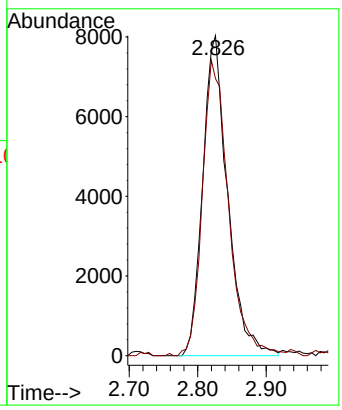




#5
Bromomethane
Concen: 10.332 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 94 Resp: 2034

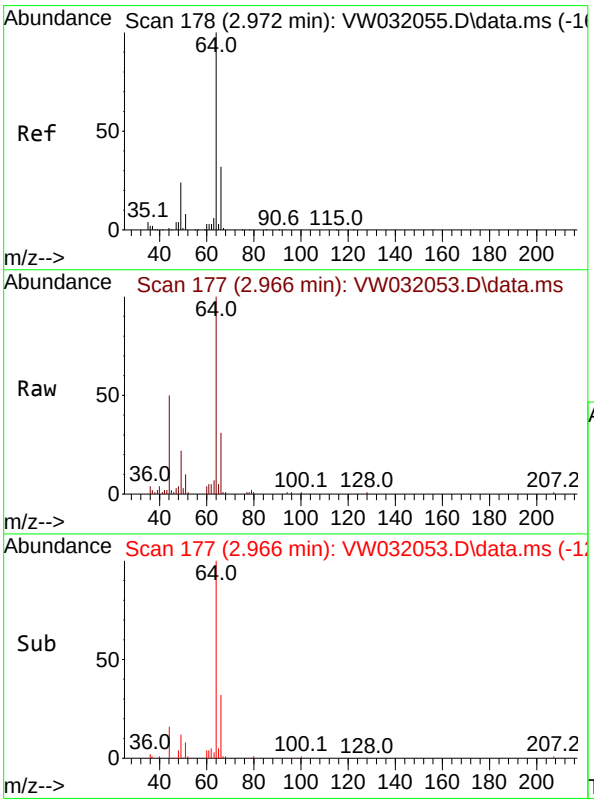
Ion	Ratio	Lower	Upper
94	100		
96	86.6	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

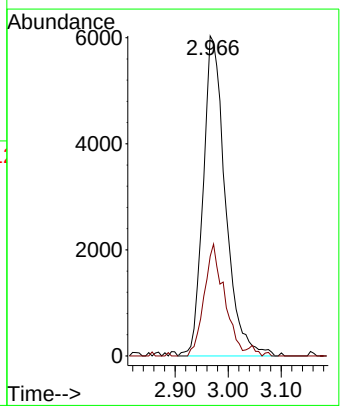
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

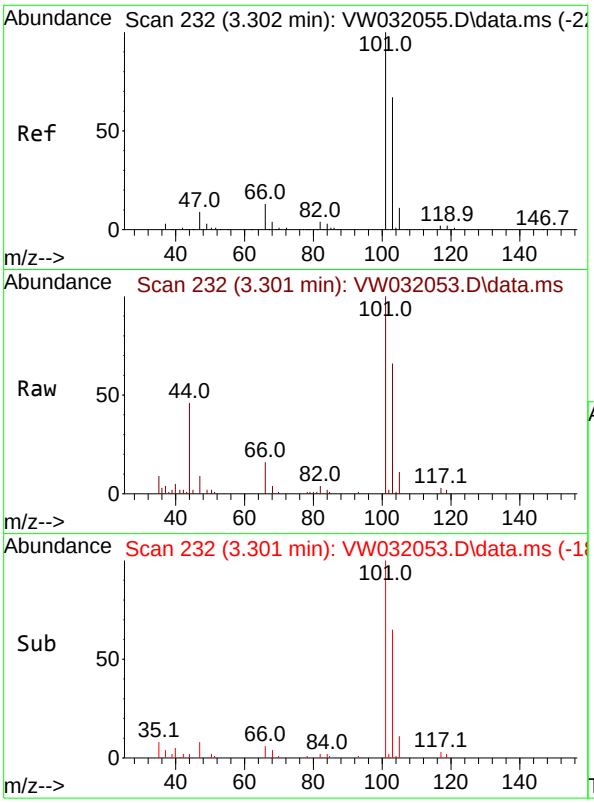


#6
Chloroethane
Concen: 10.081 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 64 Resp: 17509

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.0	39.0

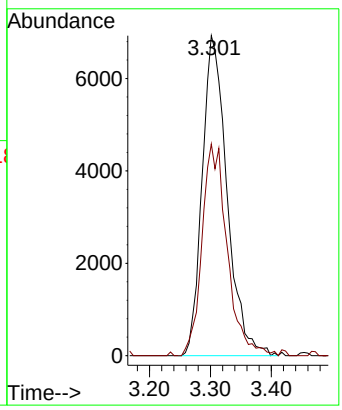




#7
Trichlorofluoromethane
Concen: 9.333 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:101 Resp: 1962

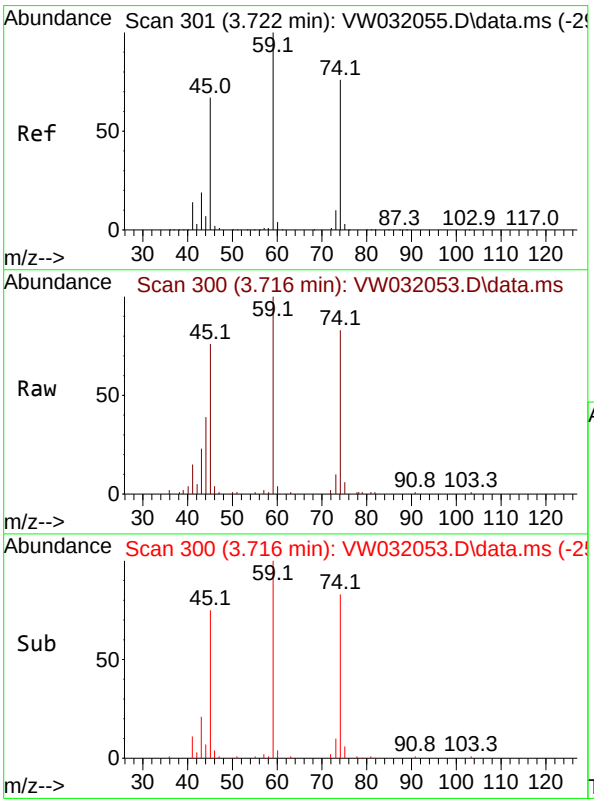
Ion	Ratio	Lower	Upper
101	100		
103	66.2	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

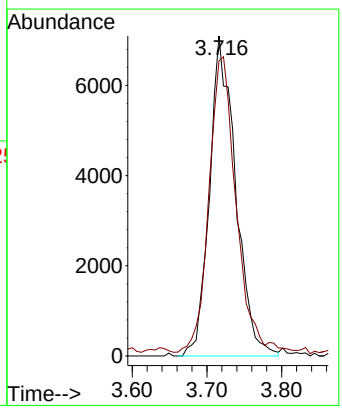
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

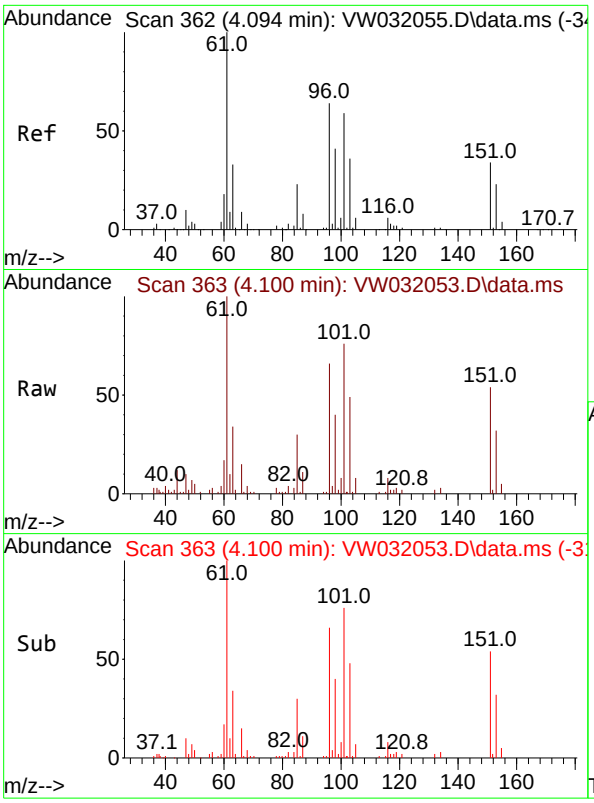


#8
Diethyl Ether
Concen: 10.000 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 74 Resp: 17227

Ion	Ratio	Lower	Upper
74	100		
45	95.9	45.4	136.2

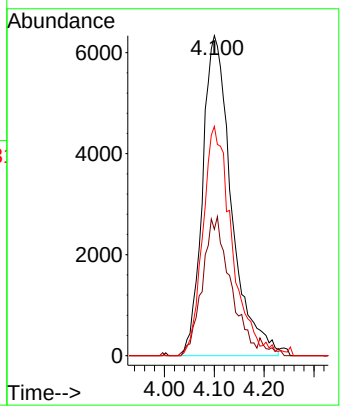




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.276 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:101 Resp: 2549

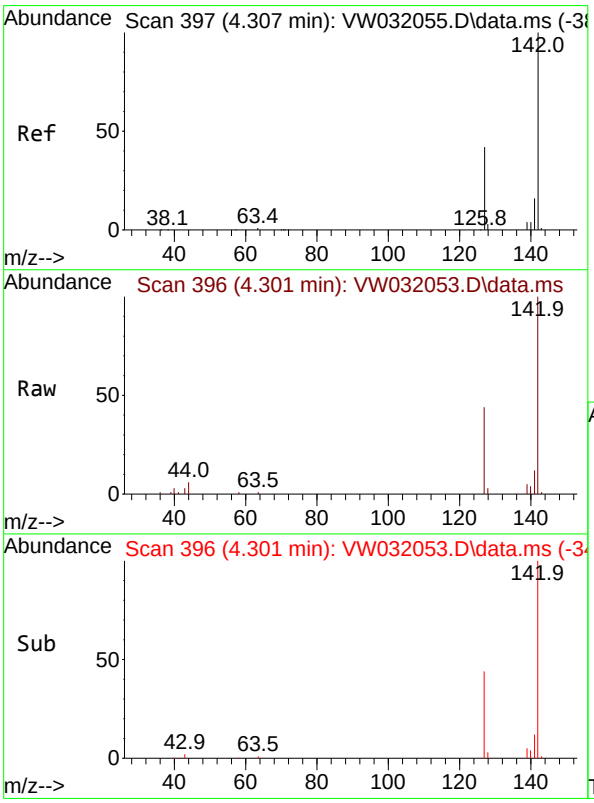
Ion	Ratio	Lower	Upper
101	100		
85	42.4	34.9	52.3
151	70.9	56.2	84.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

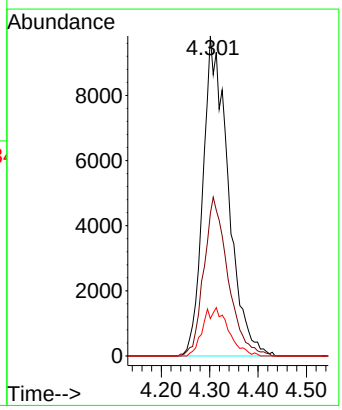
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

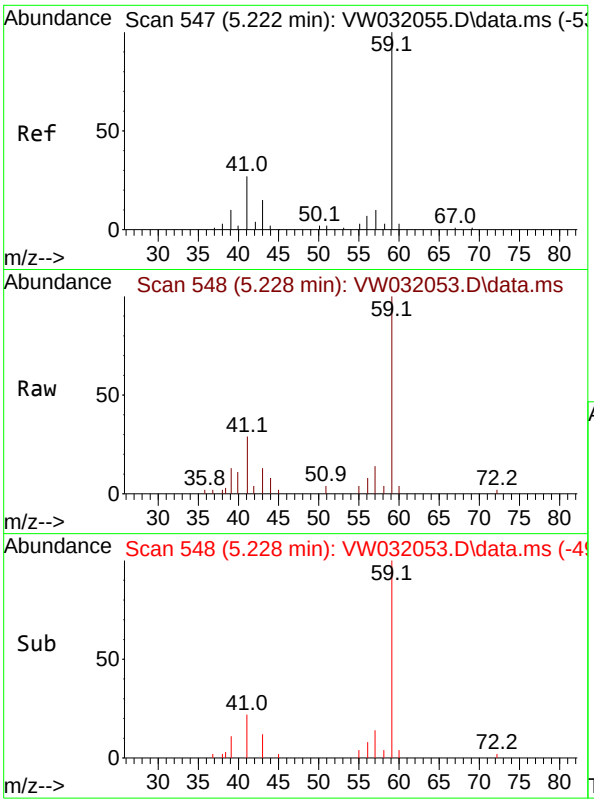


#10
Methyl Iodide
Concen: 10.098 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:142 Resp: 35515

Ion	Ratio	Lower	Upper
142	100		
127	47.6	36.6	55.0
141	15.4	12.1	18.1





#11
Tert butyl alcohol
Concen: 50.985 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 59 Resp: 1075

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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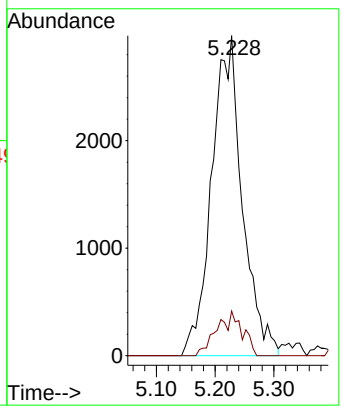
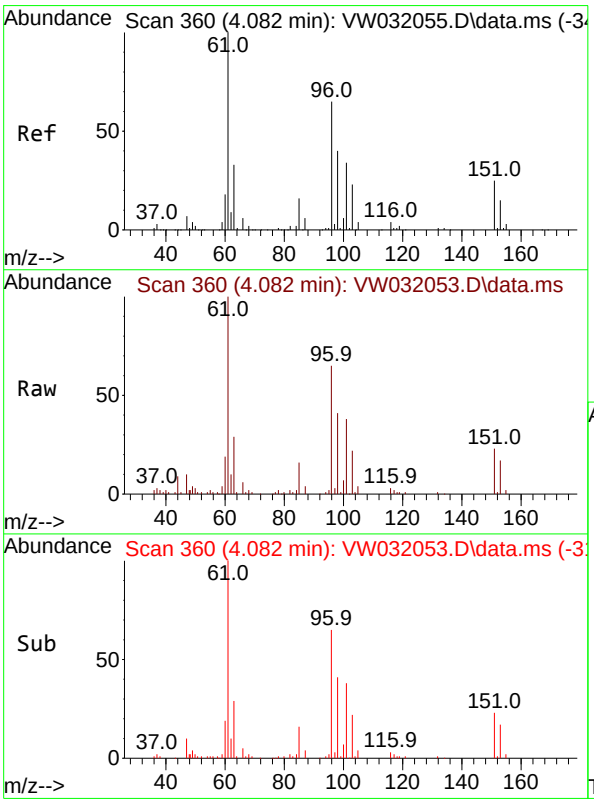
Supervised By :Semsettin Yesilyurt 08/12/2025

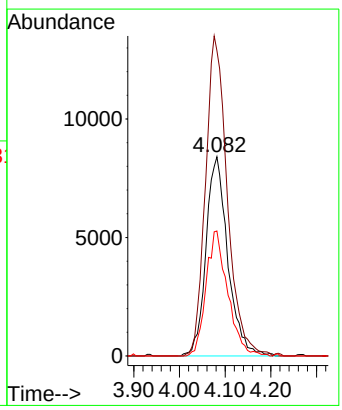


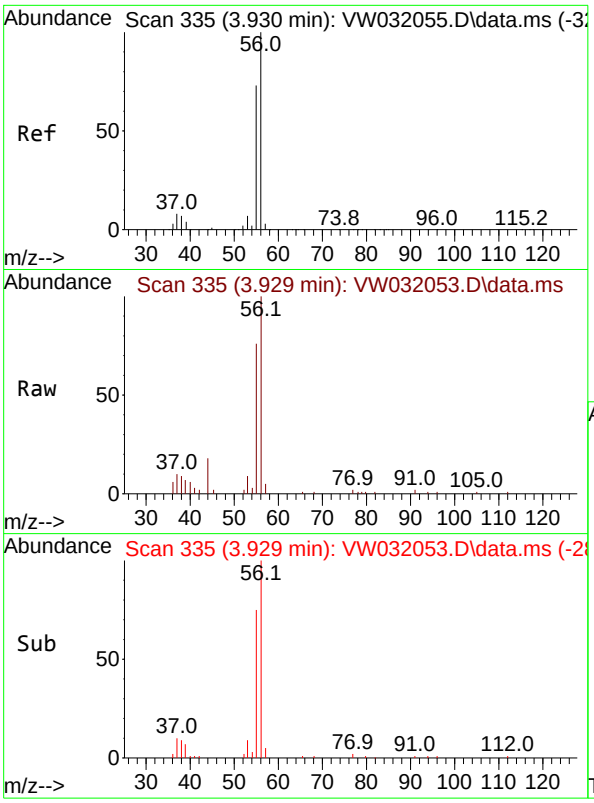


#12
1,1-Dichloroethene
Concen: 10.231 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 27944

Ion	Ratio	Lower	Upper
96	100		
61	153.3	123.4	185.2
98	62.7	49.5	74.3

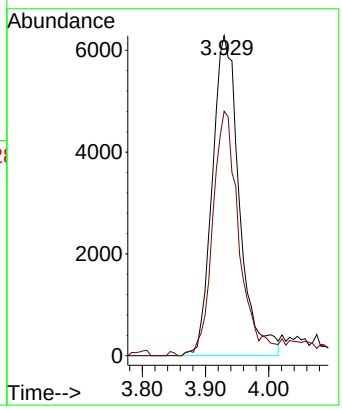




#13
Acrolein
Concen: 55.493 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 56 Resp: 1865

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.4	83.2



Instrument :
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ClientSampleId :
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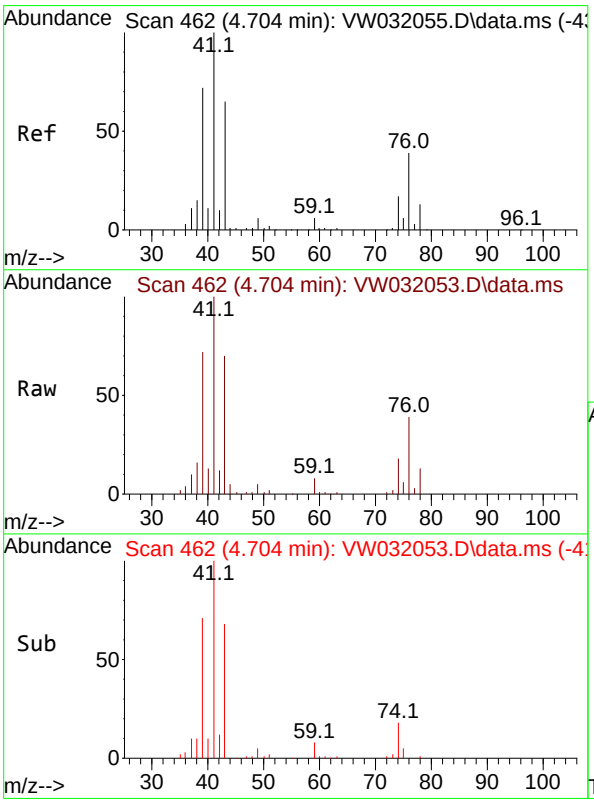
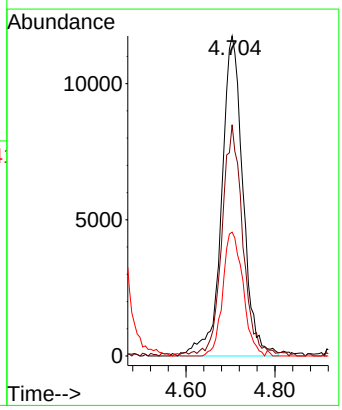
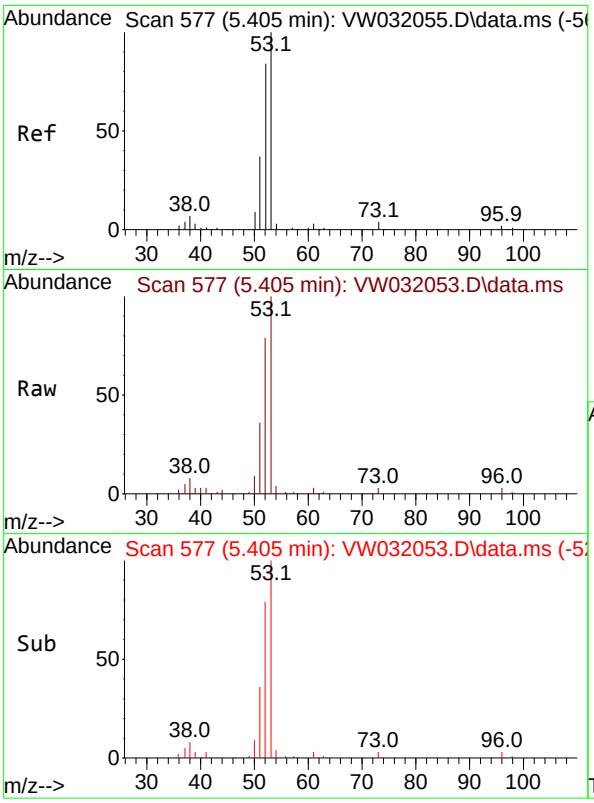


#14
Allyl chloride
Concen: 9.839 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 39114

Ion	Ratio	Lower	Upper
41	100		
39	68.2	54.5	81.7
76	36.6	29.3	43.9

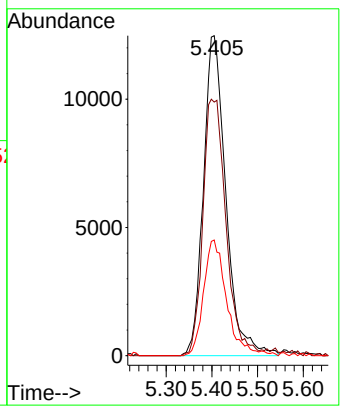




#15
Acrylonitrile
Concen: 51.842 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 53 Resp: 4253

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.1	99.1
51	37.3	29.2	43.8



Instrument :
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ClientSampleId :
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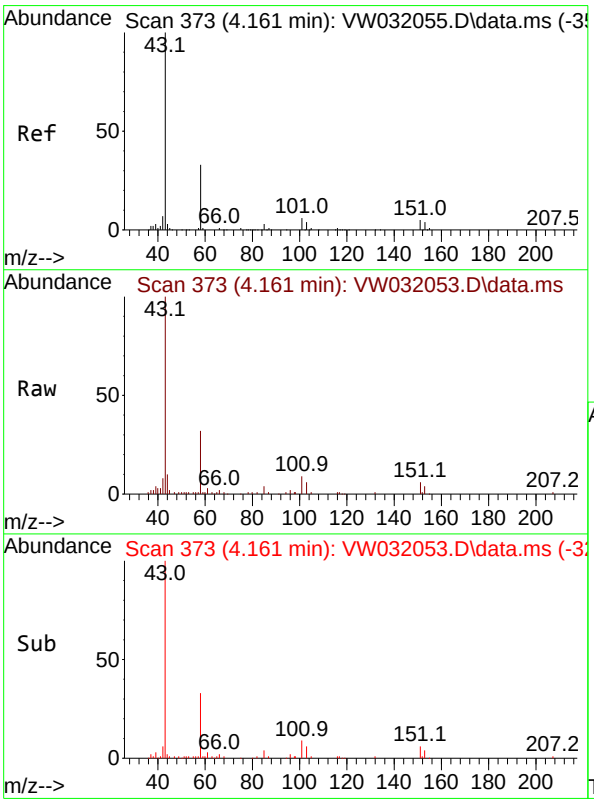
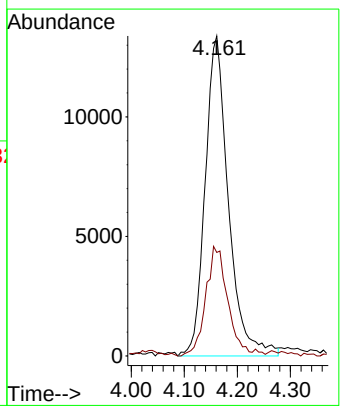
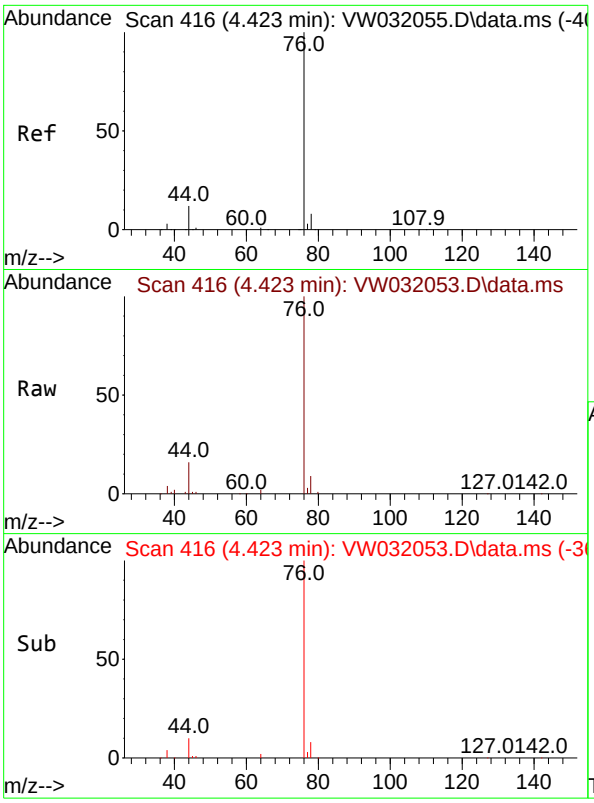


#16
Acetone
Concen: 54.122 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 40816

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	39.8





#17
Carbon Disulfide
Concen: 9.931 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 76 Resp: 7280

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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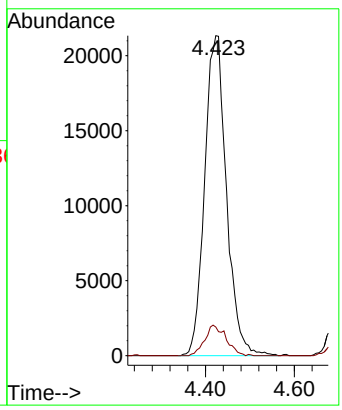
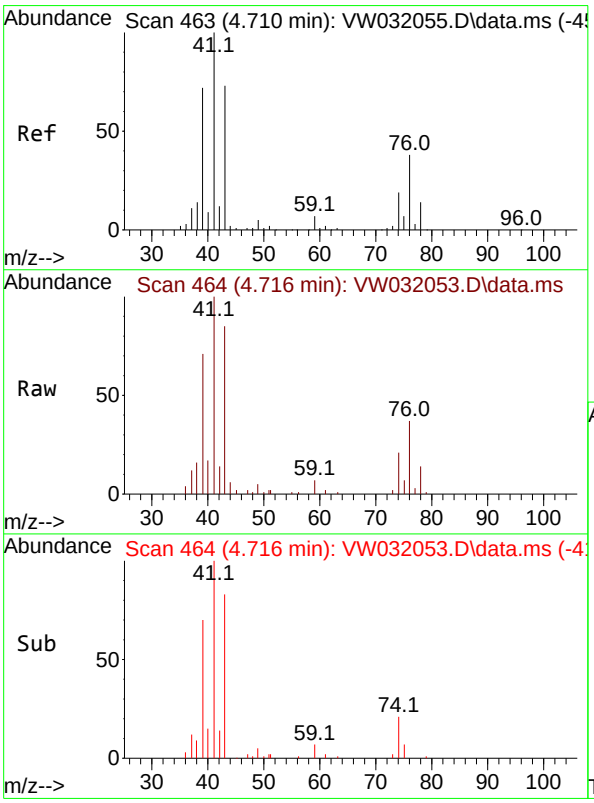
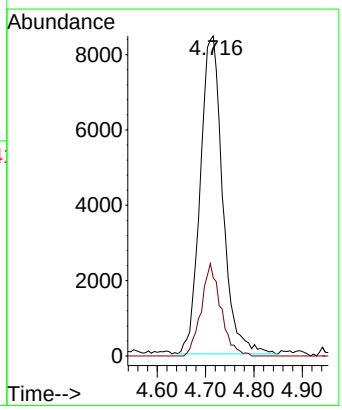


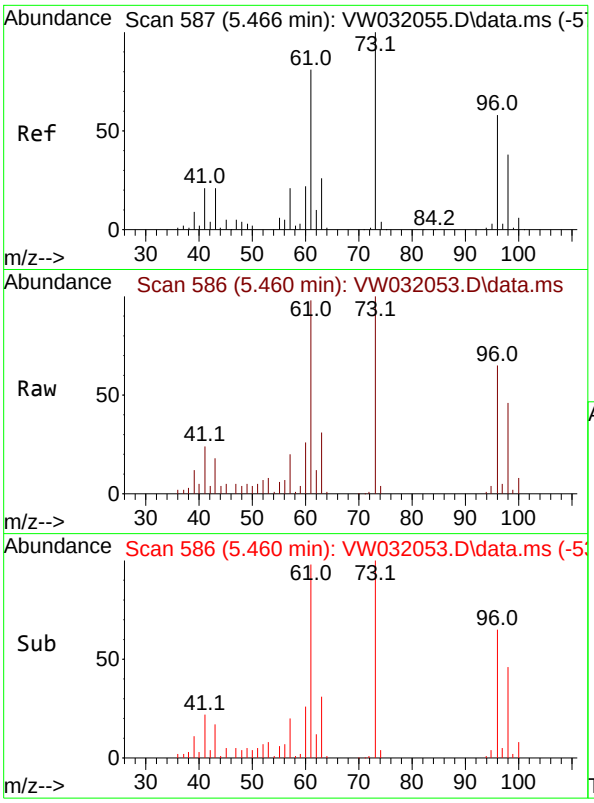


#18
Methyl Acetate
Concen: 11.394 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 27191

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.6	31.0

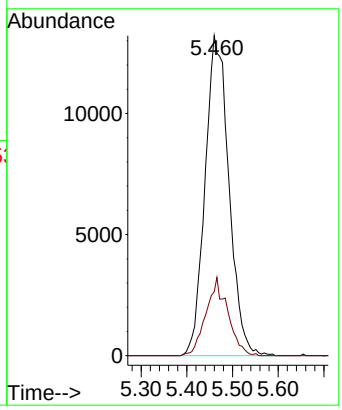




#19
Methyl tert-butyl Ether
Concen: 9.947 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 73 Resp: 4787

Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
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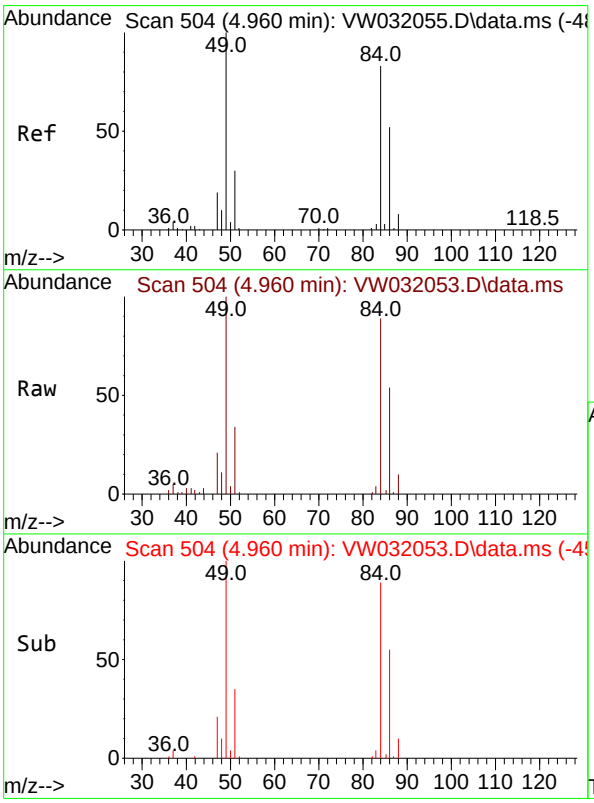
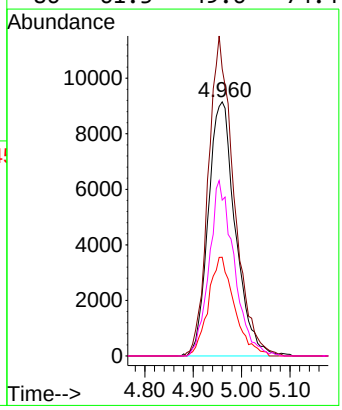
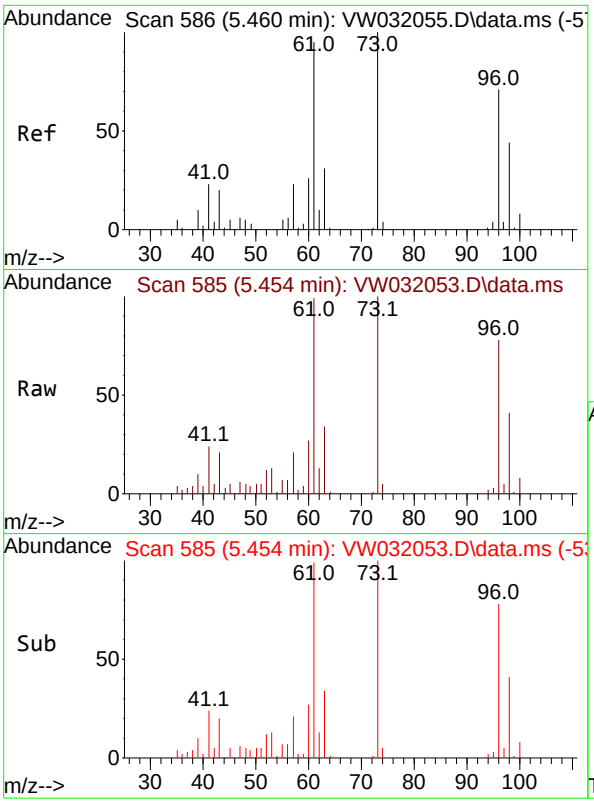


#20
Methylene Chloride
Concen: 10.170 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 84 Resp: 35462

Ion	Ratio	Lower	Upper
84	100		
49	113.0	95.9	143.9
51	38.9	28.6	43.0
86	61.3	49.6	74.4

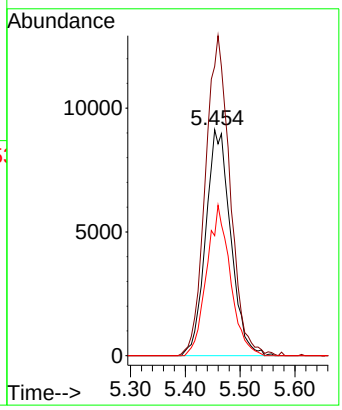




#21
trans-1,2-Dichloroethene
Concen: 9.962 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 2887

Ion	Ratio	Lower	Upper
96	100		
61	128.0	106.8	160.2
98	53.2	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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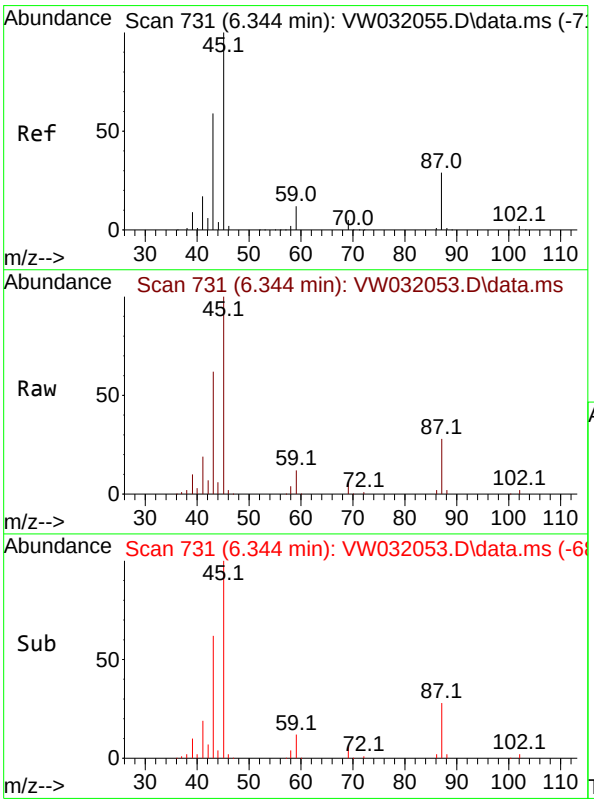
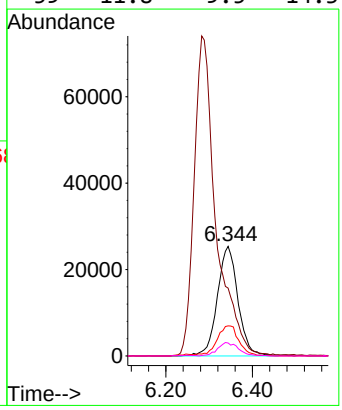
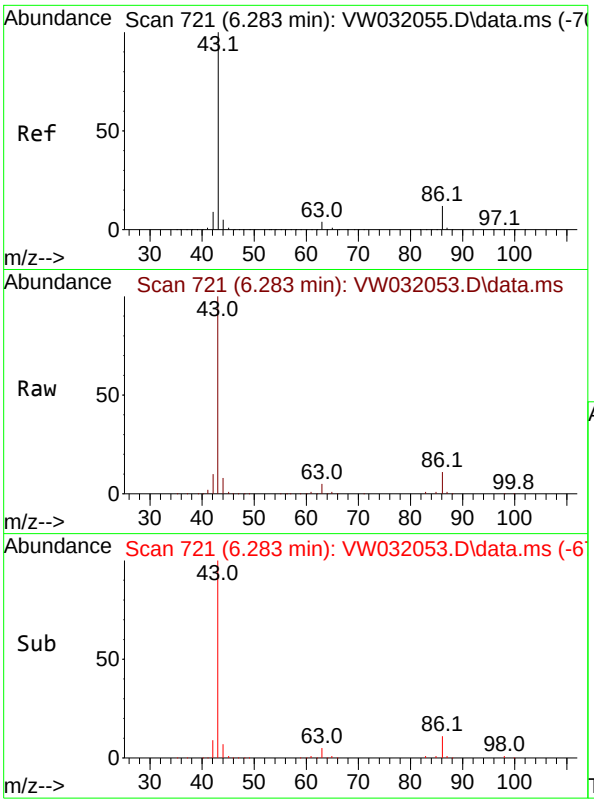


#22
Diisopropyl ether
Concen: 10.029 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 45 Resp: 84045

Ion	Ratio	Lower	Upper
45	100		
43	61.0	47.0	70.4
87	27.5	23.8	35.8
59	11.8	9.5	14.3





#23
Vinyl Acetate
Concen: 47.081 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 25905

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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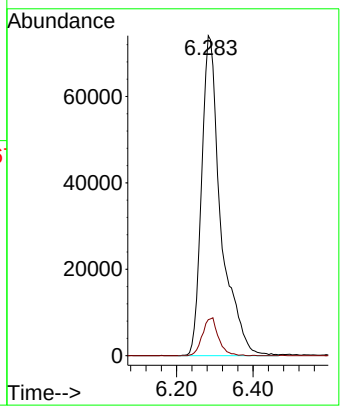
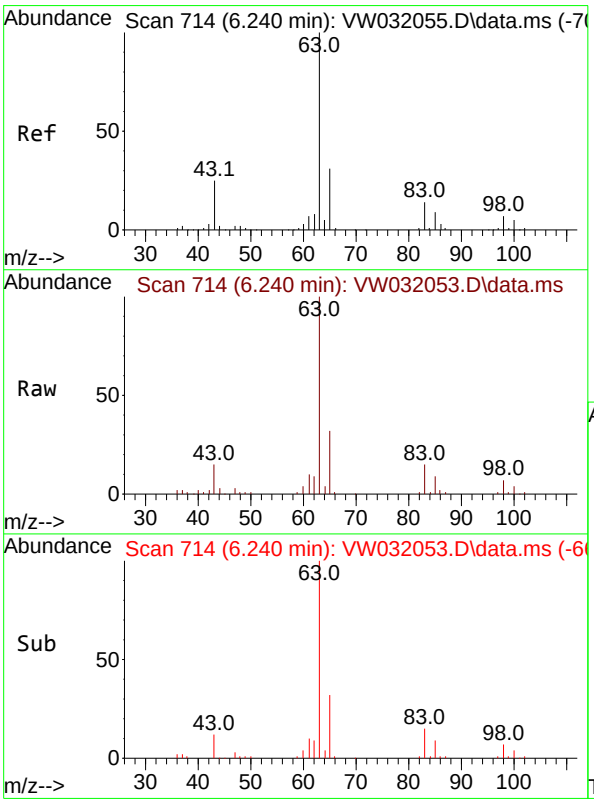
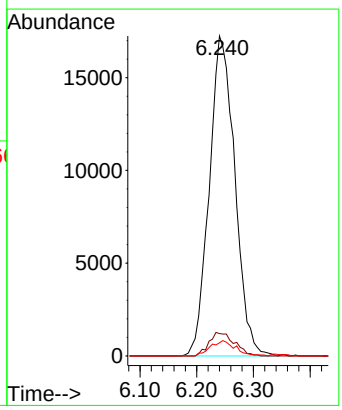


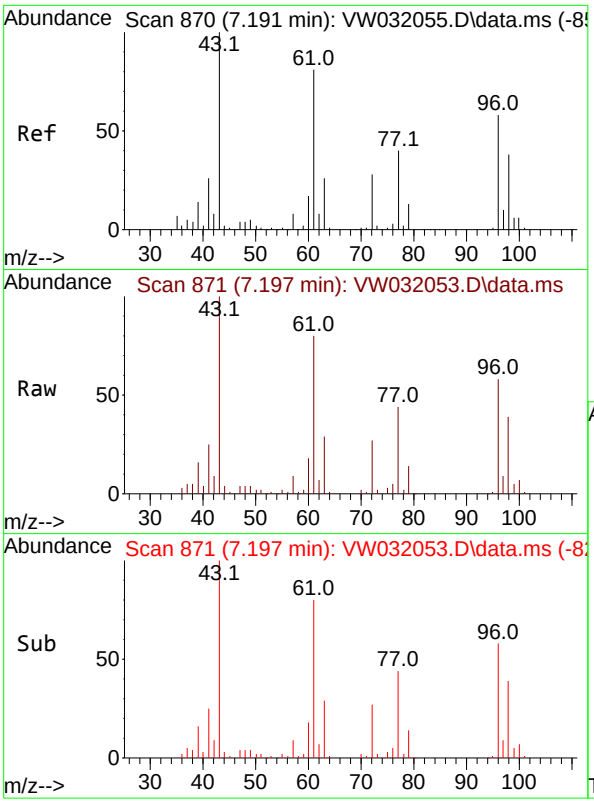


#24
1,1-Dichloroethane
Concen: 10.095 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 54051

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.7	11.1
100	4.1	2.5	7.4

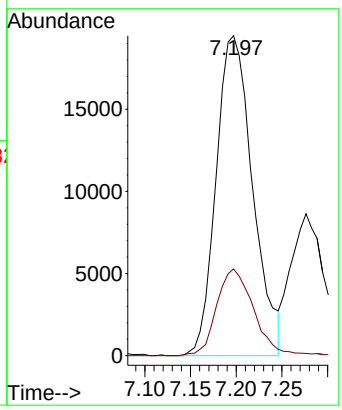




#25
2-Butanone
Concen: 50.685 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 5432

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5



Instrument :
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ClientSampleId :
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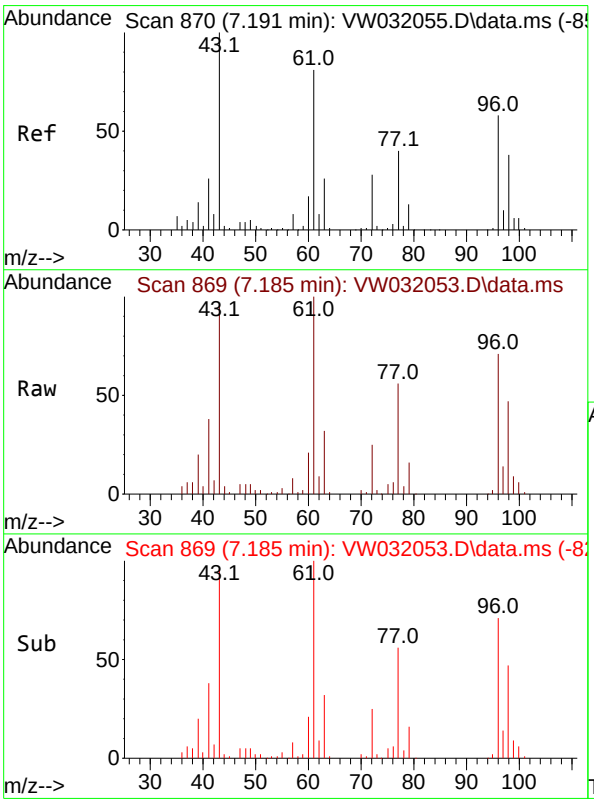
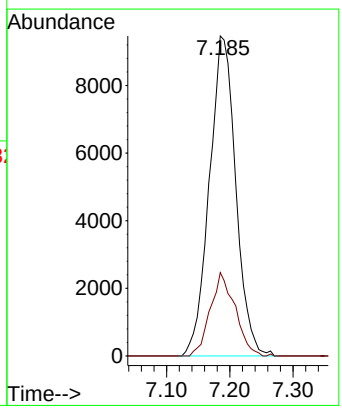
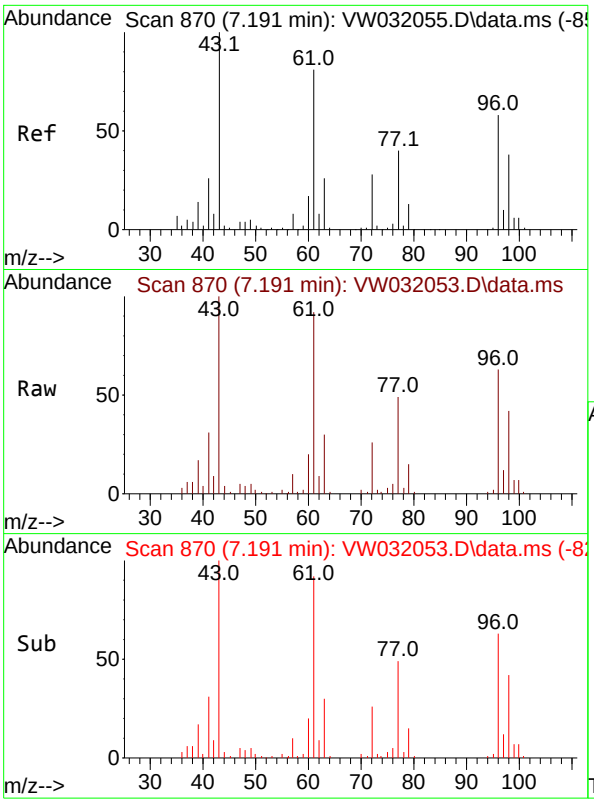


#26
2,2-Dichloropropane
Concen: 10.224 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 77 Resp: 27463

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9

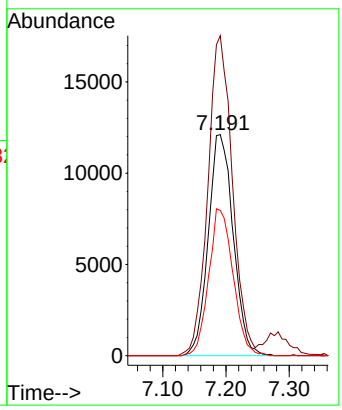




#27
cis-1,2-Dichloroethene
Concen: 9.791 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 3317

Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	281.2
98	64.9	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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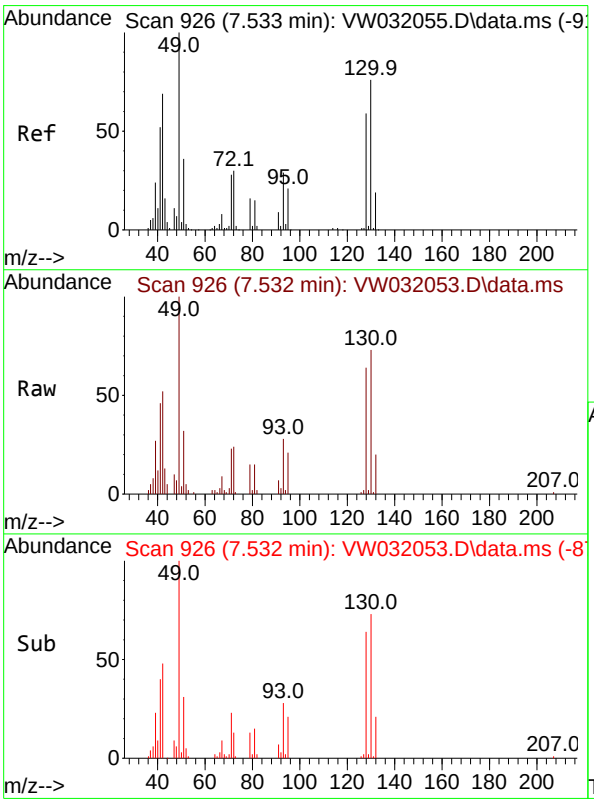
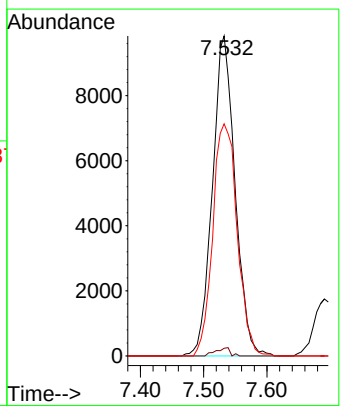
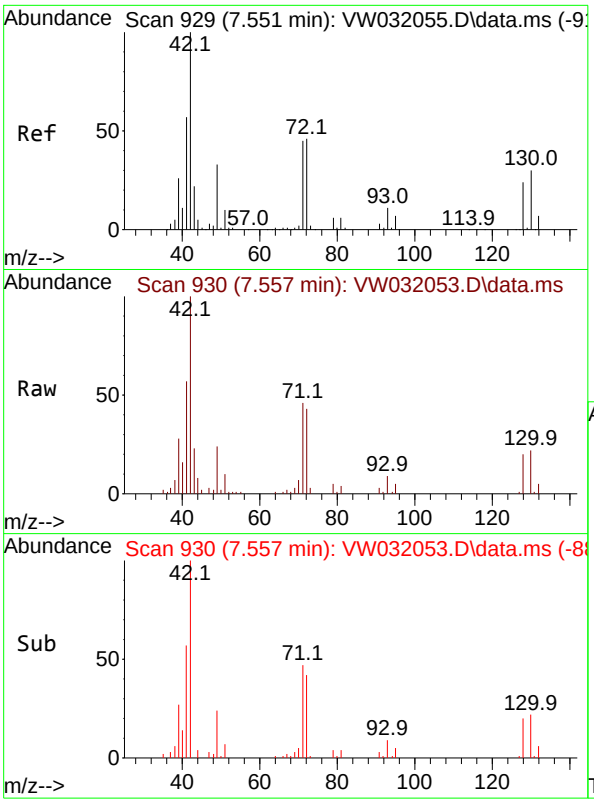


#28
Bromochloromethane
Concen: 10.019 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 49 Resp: 24412

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.2
130	78.2	61.9	92.9

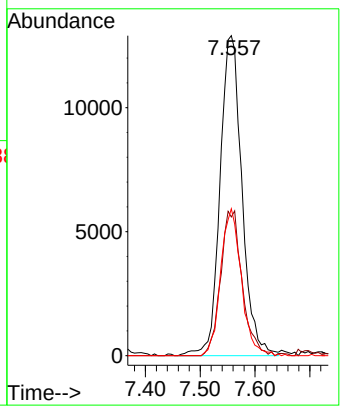




#29
Tetrahydrofuran
Concen: 50.800 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 42 Resp: 3590

Ion	Ratio	Lower	Upper
42	100		
72	44.5	36.6	55.0
71	43.3	34.7	52.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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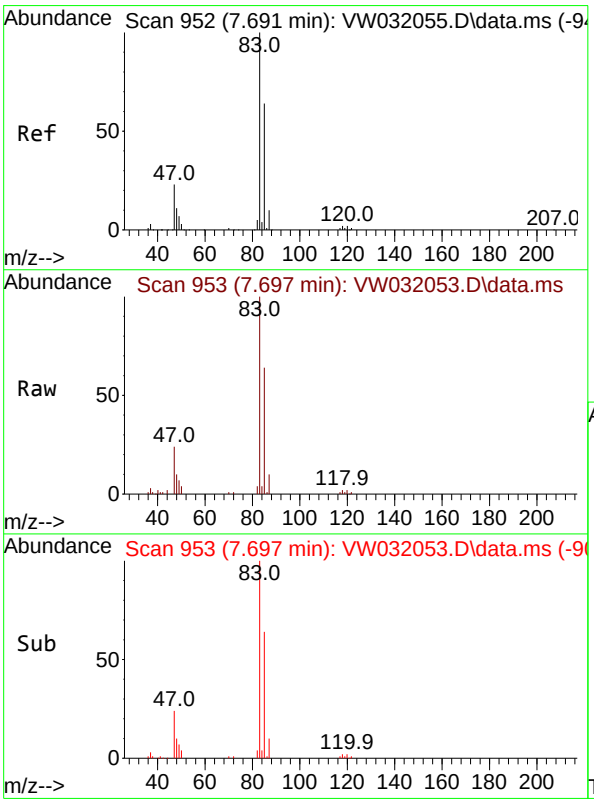
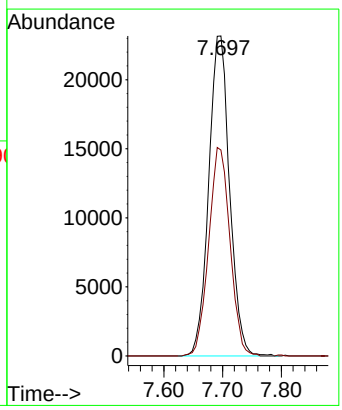
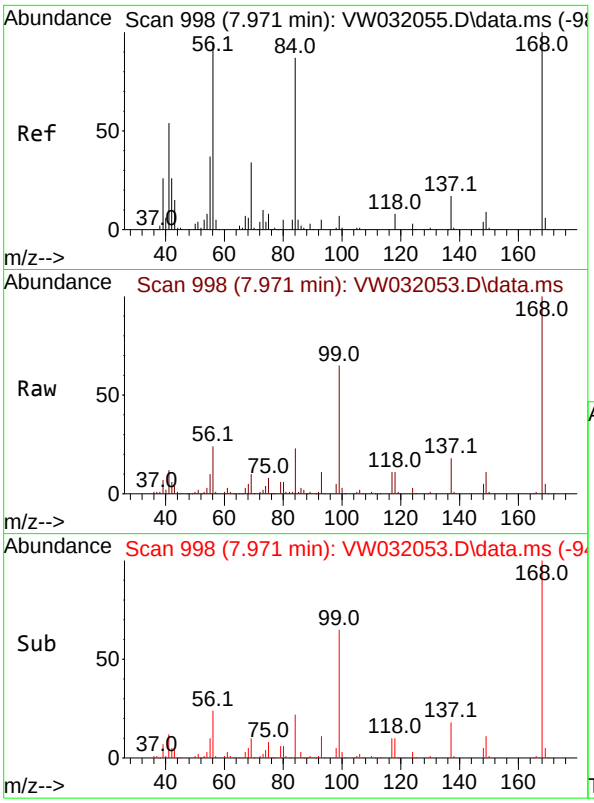


#30
Chloroform
Concen: 10.071 ug/l
RT: 7.697 min Scan# 953
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 57170

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4

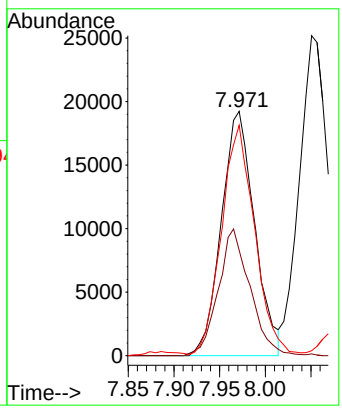




#31
Cyclohexane
Concen: 10.477 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 56 Resp: 4863

Ion	Ratio	Lower	Upper
56	100		
69	43.1	28.6	42.8
84	93.2	73.0	109.4



Instrument :
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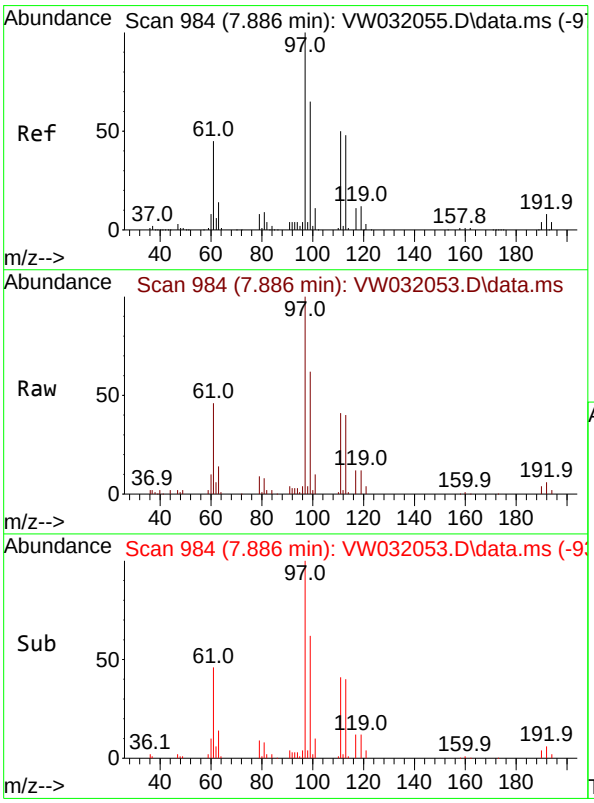
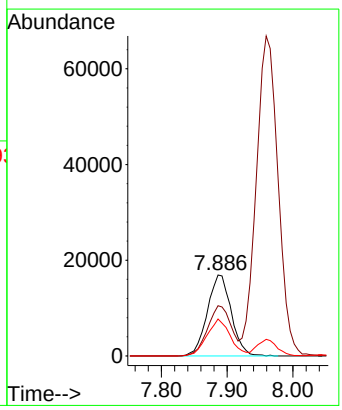
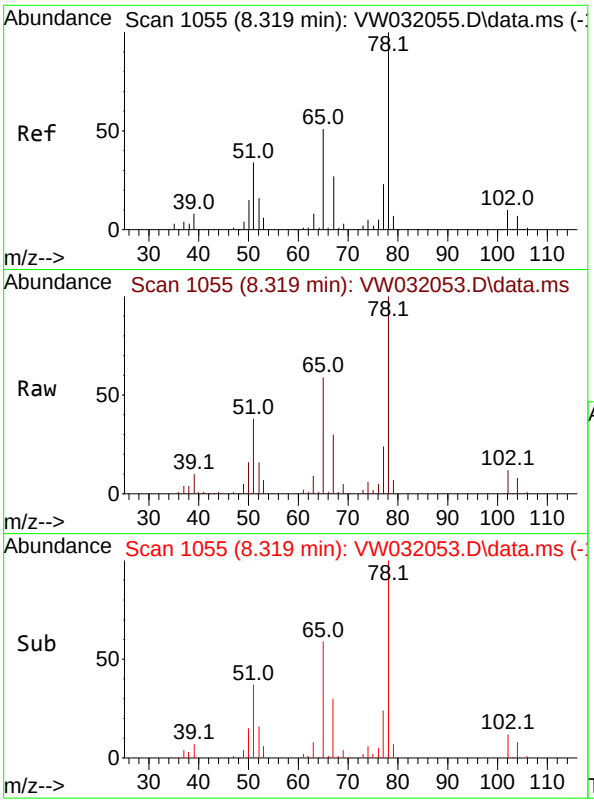


#32
1,1,1-Trichloroethane
Concen: 10.368 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 97 Resp: 42747

Ion	Ratio	Lower	Upper
97	100		
99	61.1	51.8	77.8
61	45.0	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 10.337 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 65 Resp: 3367

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

Instrument :
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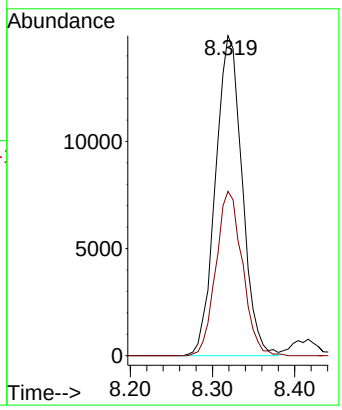
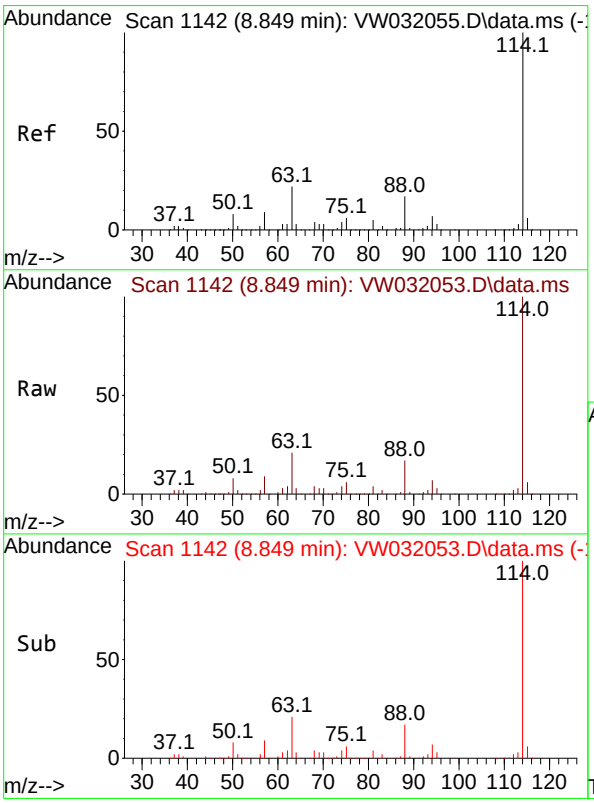
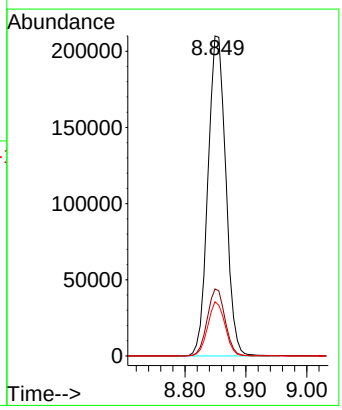


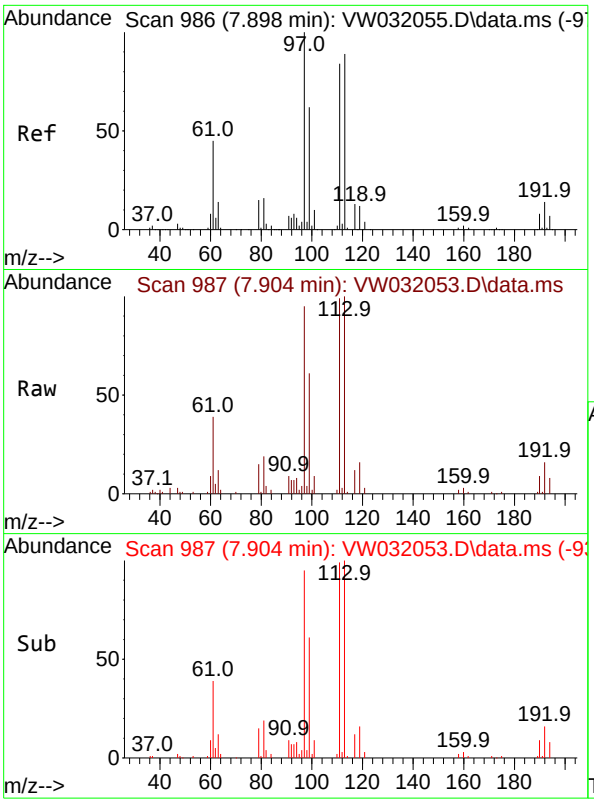


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:114 Resp: 426784

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.0
88	17.0	0.0	33.8

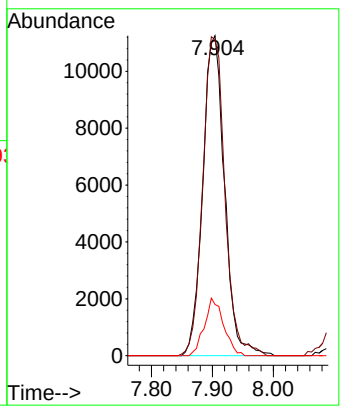




#35
Dibromofluoromethane
Concen: 10.147 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:113 Resp: 2797

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.1	120.1
192	15.8	13.1	19.7



Instrument :
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ClientSampleId :
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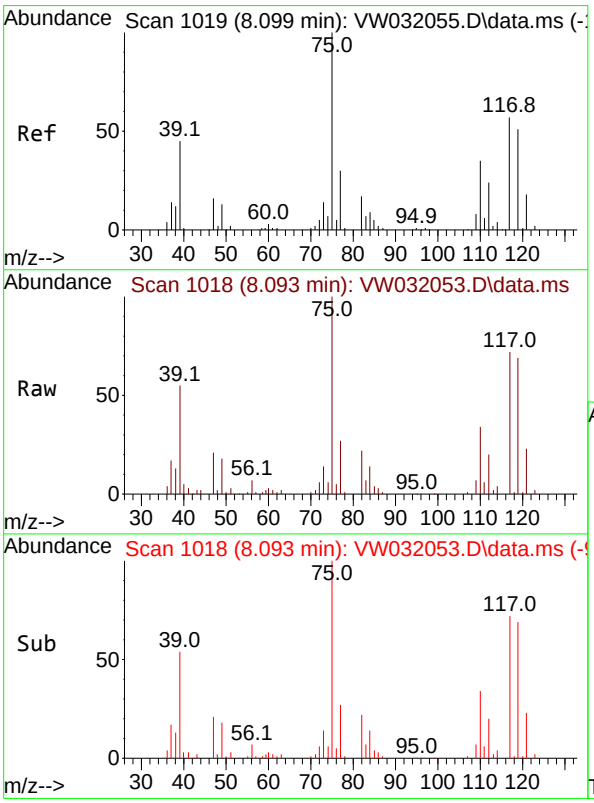
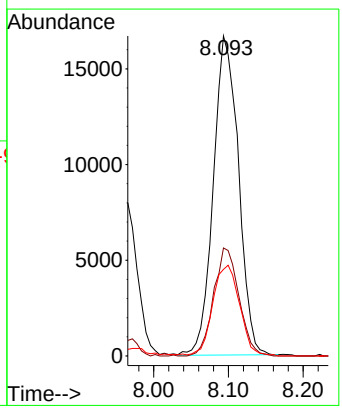
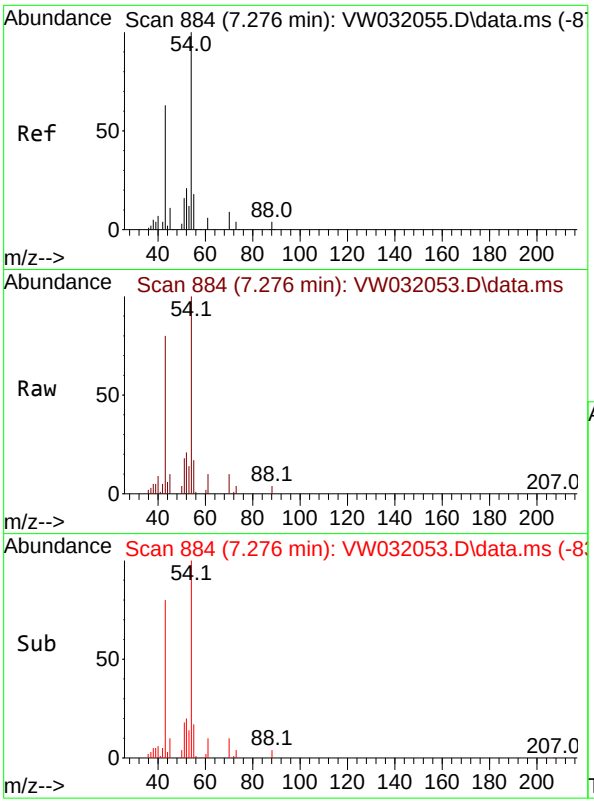


#36
1,1-Dichloropropene
Concen: 10.032 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 38994

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.4	52.2
77	30.6	24.7	37.1





#37
Ethyl Acetate
Concen: 10.070 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 2305

Ion	Ratio	Lower	Upper
43	100		
61	11.8	11.8	17.6
70	11.8	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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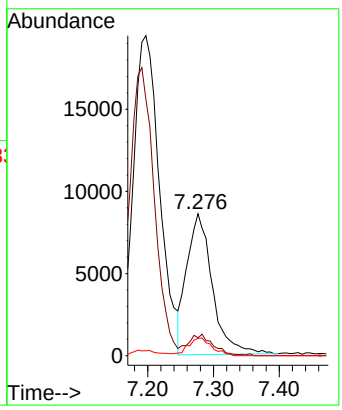
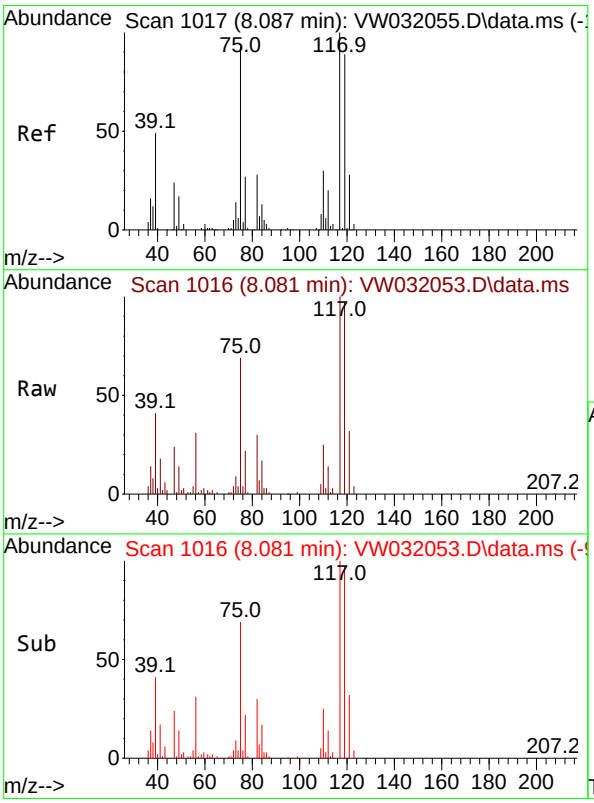
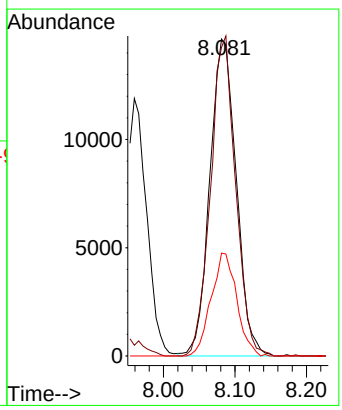


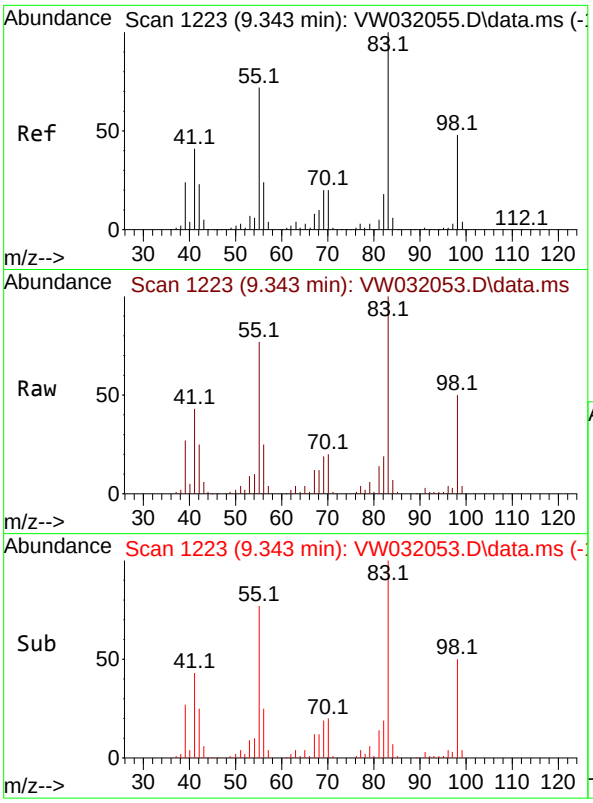


#38
Carbon Tetrachloride
Concen: 10.007 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 37535

Ion	Ratio	Lower	Upper
117	100		
119	97.5	71.4	107.2
121	32.5	22.3	33.5

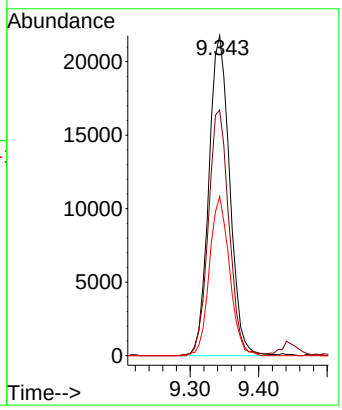




#39
Methylcyclohexane
Concen: 9.731 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 4610

Ion	Ratio	Lower	Upper
83	100		
55	76.8	57.9	86.9
98	49.7	38.3	57.5



Instrument :
MSVOA_W
ClientSampleId :
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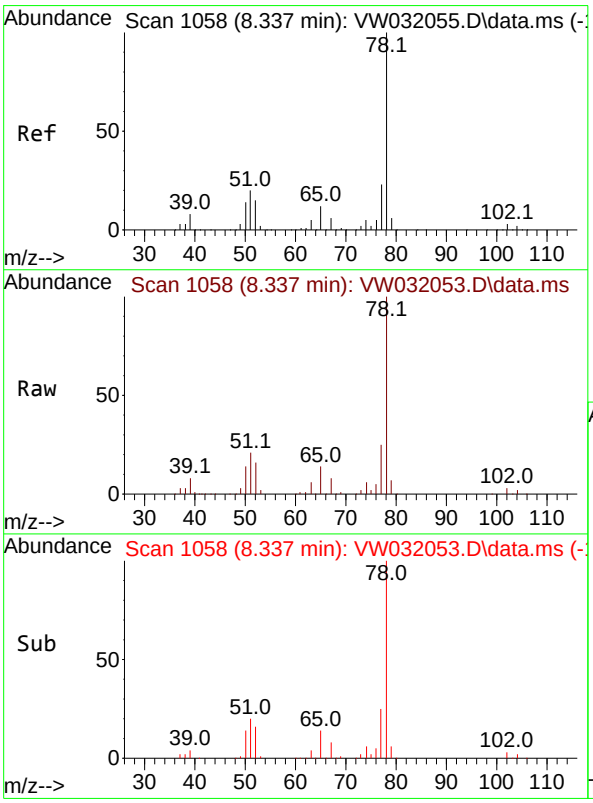
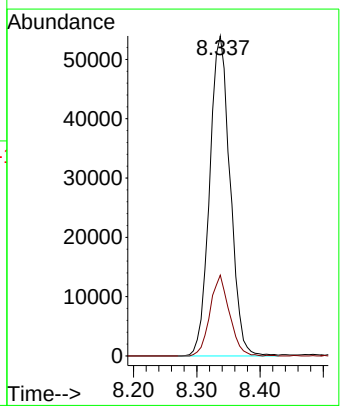
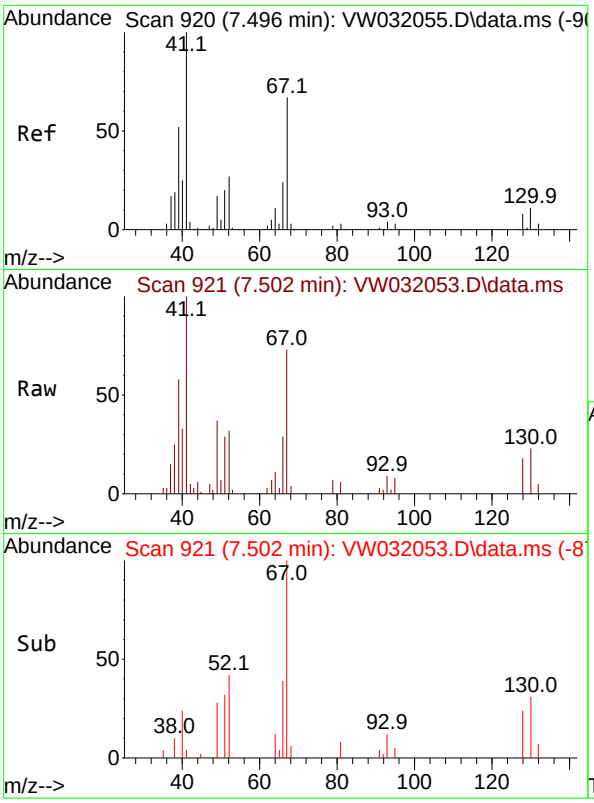


#40
Benzene
Concen: 10.053 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 78 Resp: 121462

Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.4	27.6

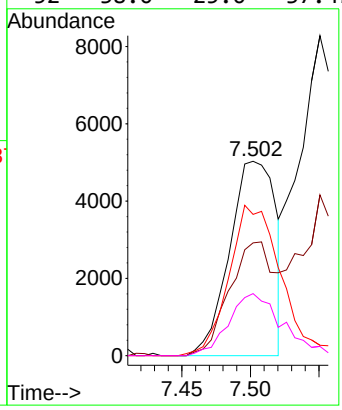




#41
Methacrylonitrile
Concen: 9.035 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 1172

Ion	Ratio	Lower	Upper
41	100		
39	57.4	42.6	63.8
67	87.3	61.0	91.4
52	38.0	25.0	37.4#



Instrument :
MSVOA_W
ClientSampleId :
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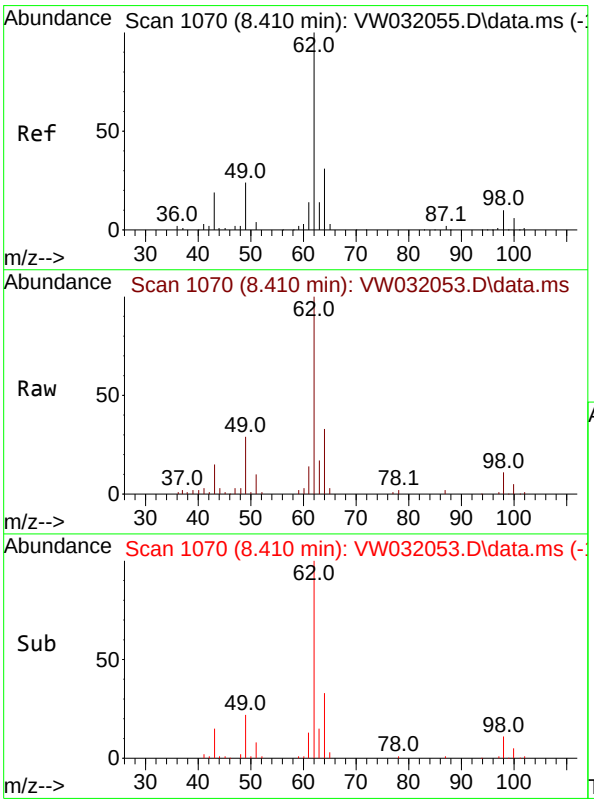
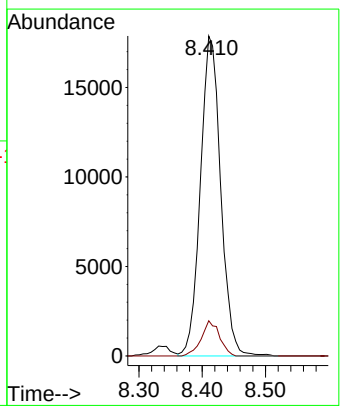
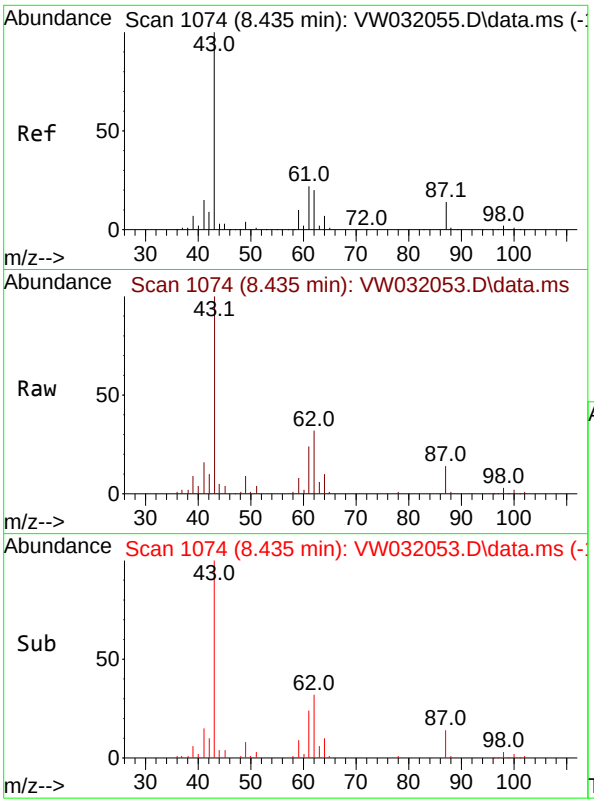


#42
1,2-Dichloroethane
Concen: 10.316 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 39882

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8





#43
Isopropyl Acetate
Concen: 9.743 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 4103

Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.8	35.8
87	13.7	11.7	17.5

Instrument :
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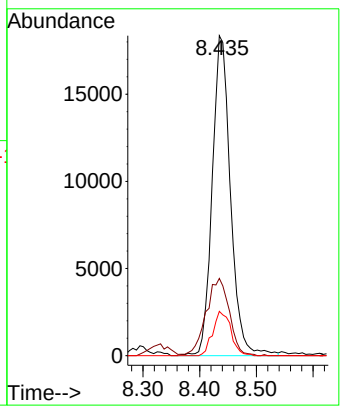
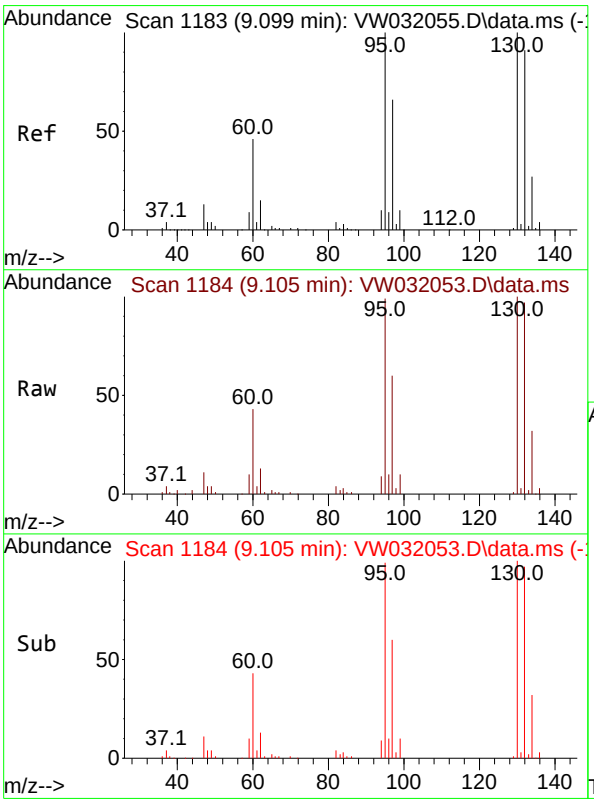
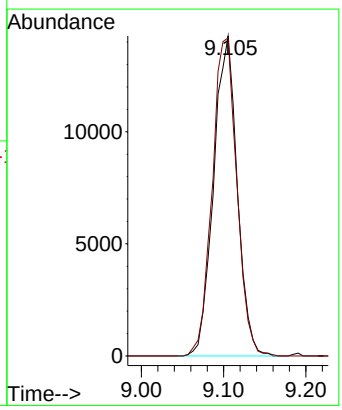


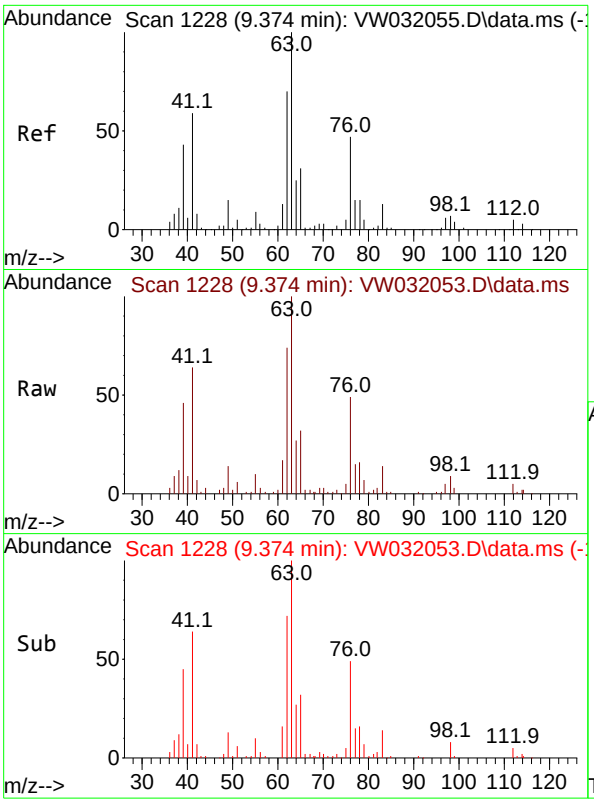


#44
Trichloroethene
Concen: 9.905 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:130 Resp: 28498

Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	200.6





#45
1,2-Dichloropropane
Concen: 10.004 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 2919

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8

Instrument :
MSVOA_W
ClientSampleId :
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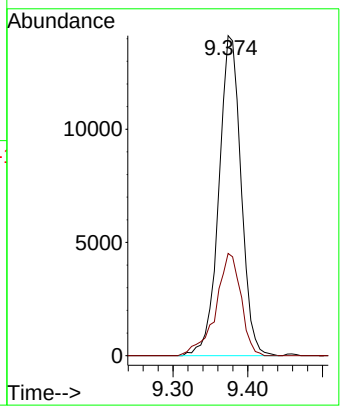
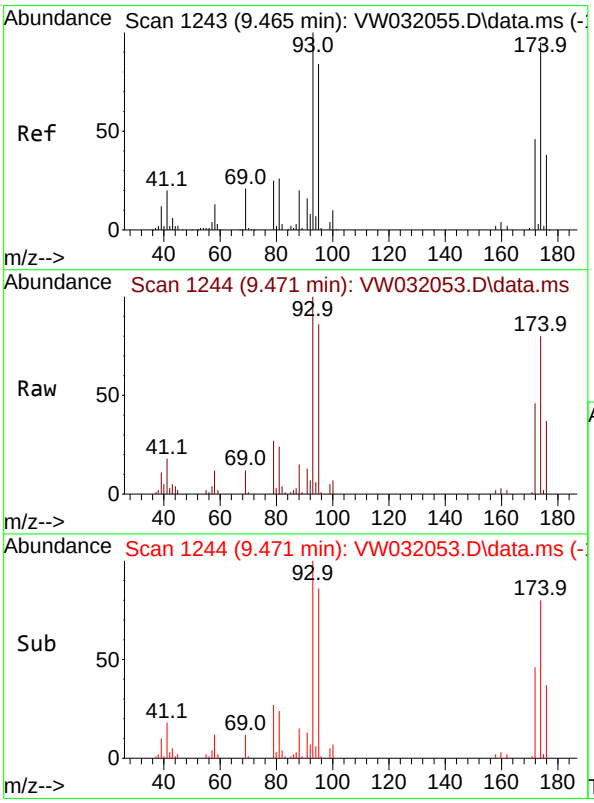
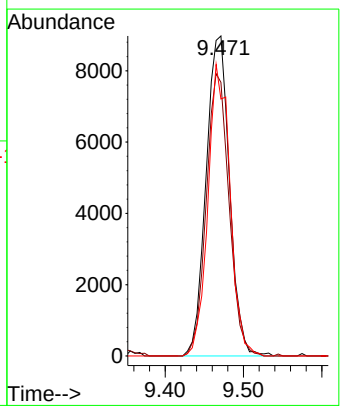


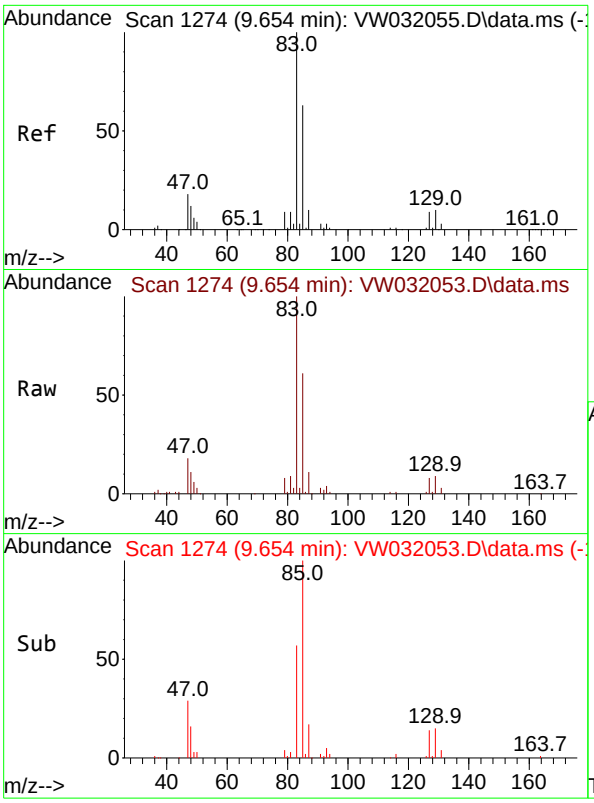


#46
Dibromomethane
Concen: 9.901 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 93 Resp: 18653

Ion	Ratio	Lower	Upper
93	100		
95	85.8	65.3	97.9
174	85.7	68.6	102.8

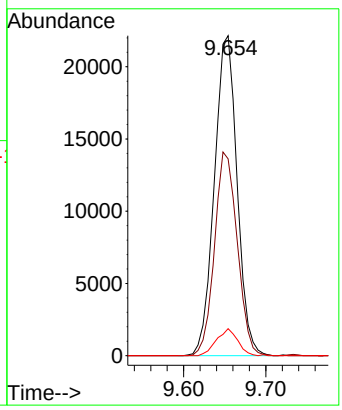




#47
Bromodichloromethane
Concen: 9.818 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 4261

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.6	75.8
127	8.5	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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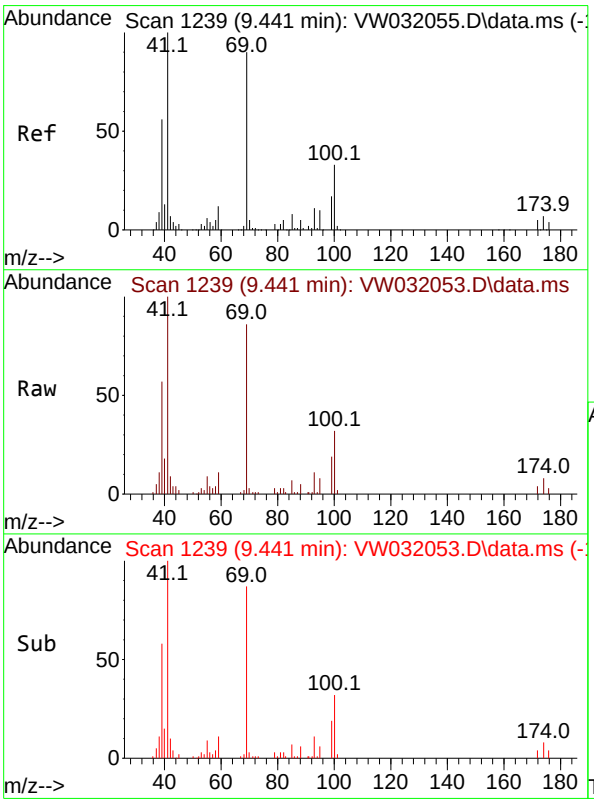
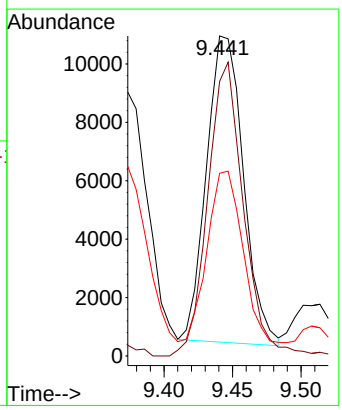
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

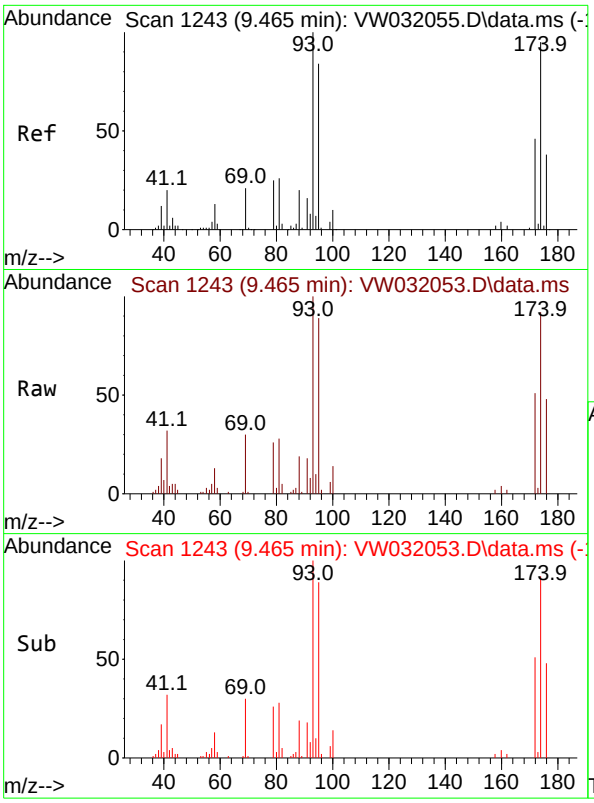


#48
Methyl methacrylate
Concen: 9.666 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 19654

Ion	Ratio	Lower	Upper
41	100		
69	92.9	73.0	109.6
39	55.1	45.0	67.4





#49
1,4-Dioxane
Concen: 192.302 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 88 Resp: 468

Ion	Ratio	Lower	Upper
88	100		
43	27.6	20.6	30.8
58	75.1	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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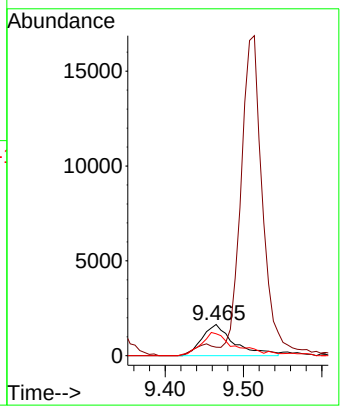
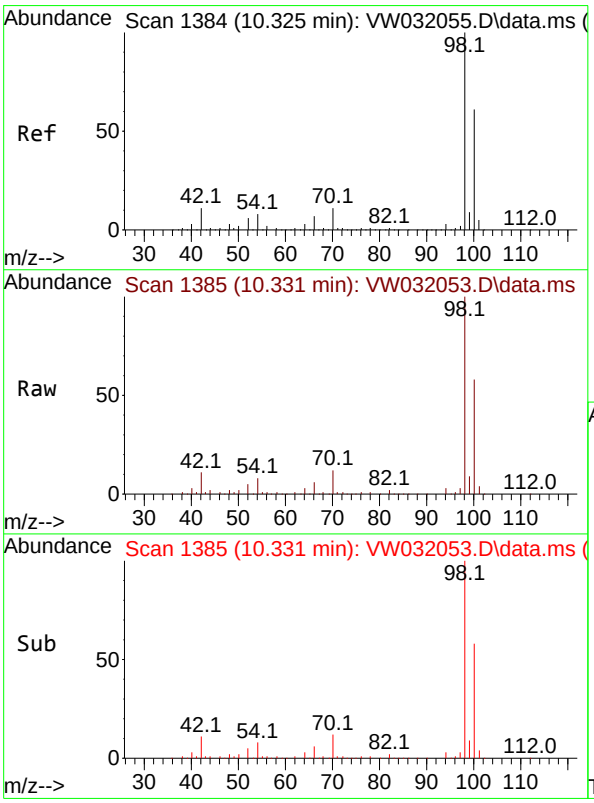
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

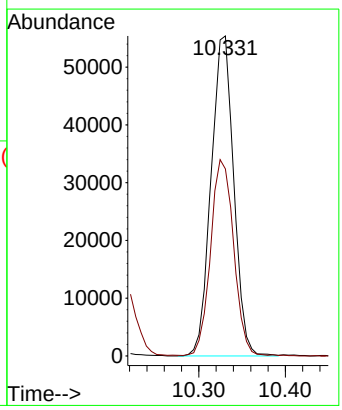


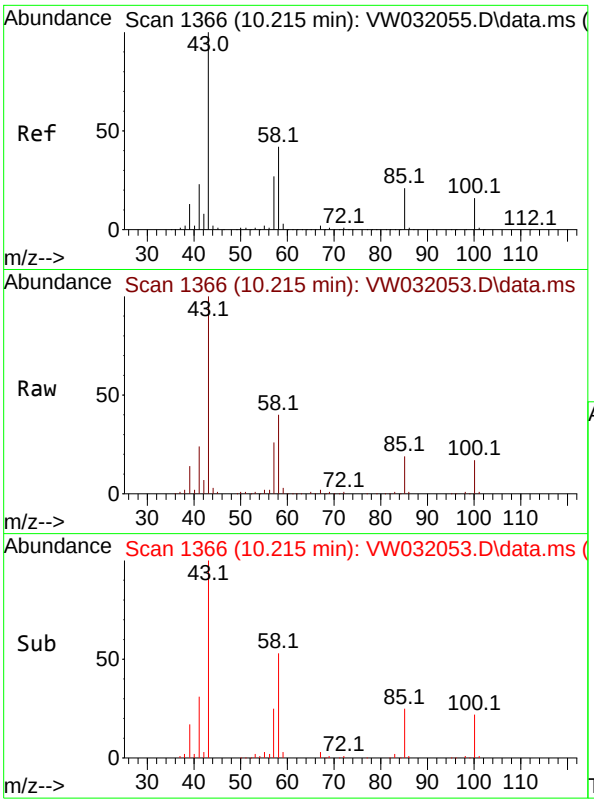


#50
Toluene-d8
Concen: 9.875 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 98 Resp: 100702

Ion	Ratio	Lower	Upper
98	100		
100	62.7	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 51.075 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 12141

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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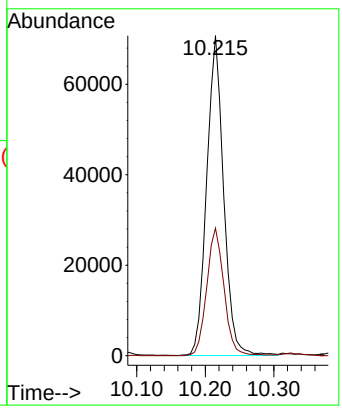
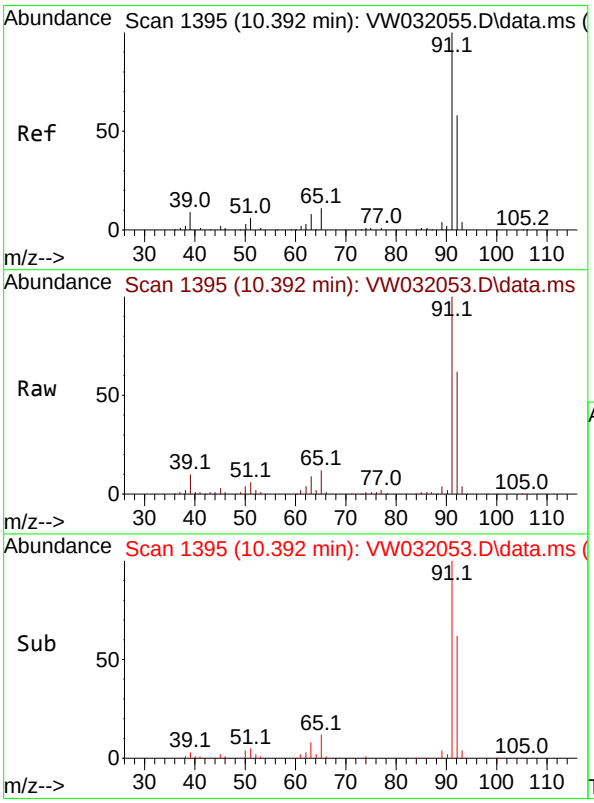
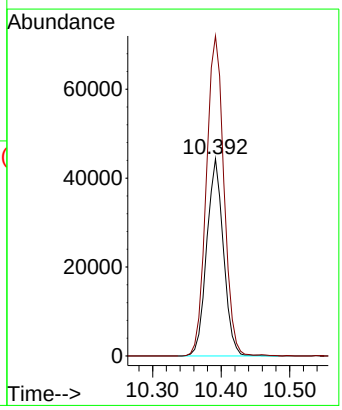


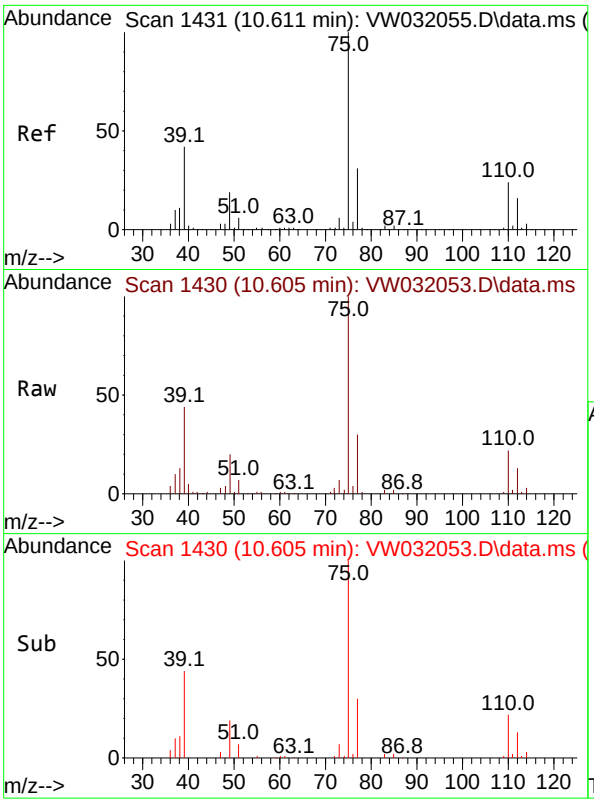


#52
Toluene
Concen: 9.888 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 92 Resp: 75250

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5

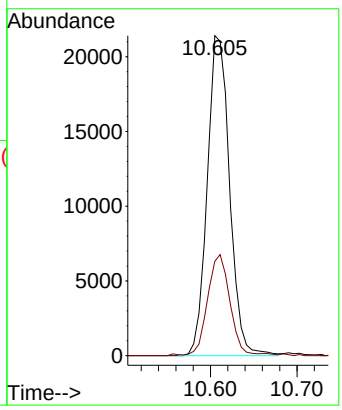




#53
t-1,3-Dichloropropene
Concen: 9.441 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 3839

Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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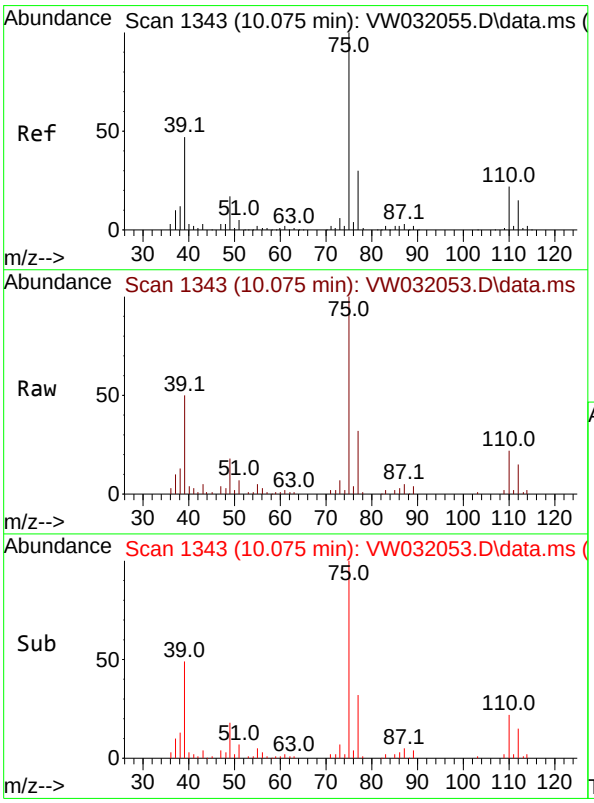
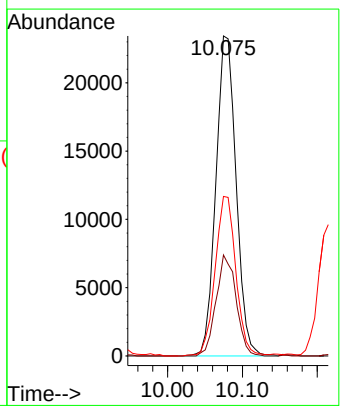
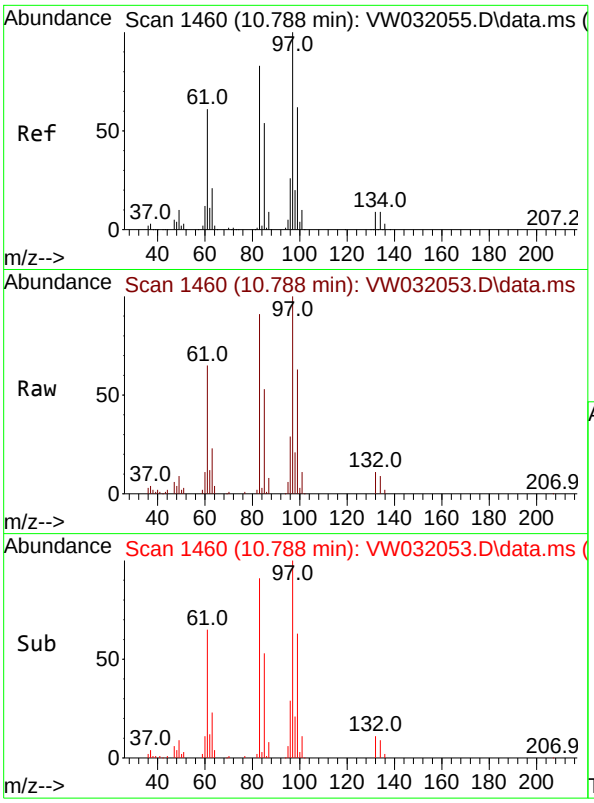


#54
cis-1,3-Dichloropropene
Concen: 9.543 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 44031

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.0	36.0
39	49.9	37.8	56.8

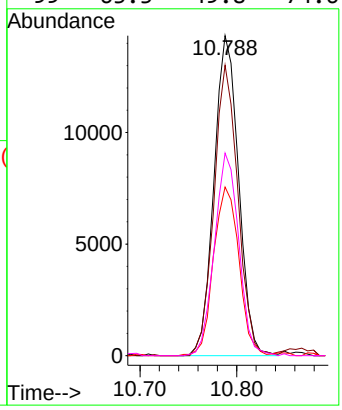




#55
1,1,2-Trichloroethane
Concen: 10.097 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 97 Resp: 2527

Ion	Ratio	Lower	Upper
97	100		
83	90.7	66.4	99.6
85	52.7	43.1	64.7
99	63.3	49.8	74.6



Instrument :
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ClientSampleId :
VSTDICC010

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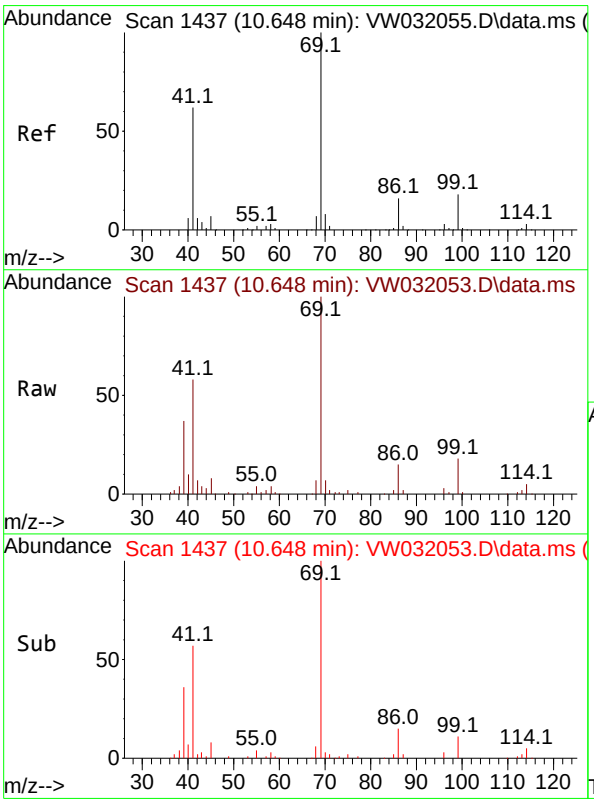
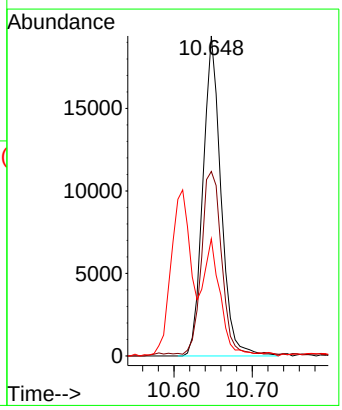
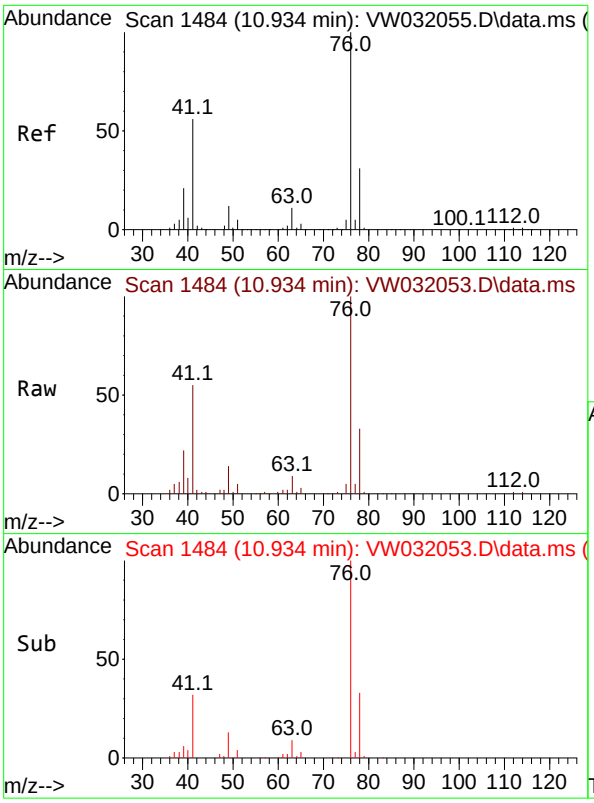


#56
Ethyl methacrylate
Concen: 9.260 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 69 Resp: 31022

Ion	Ratio	Lower	Upper
69	100		
41	62.3	51.2	76.8
39	35.0	25.4	38.0





#57
1,3-Dichloropropane
Concen: 10.254 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 76 Resp: 4474

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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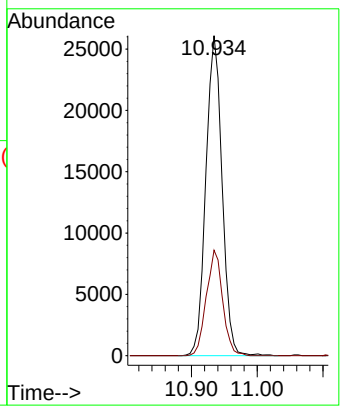
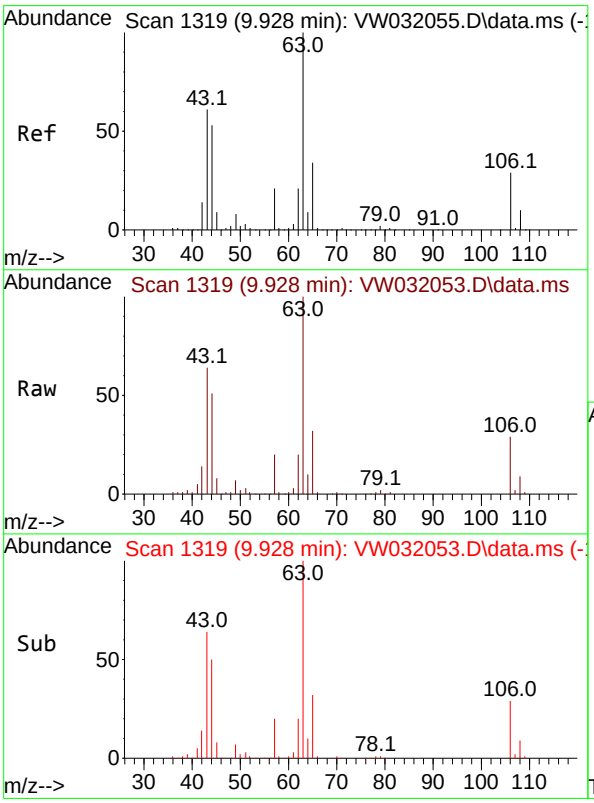
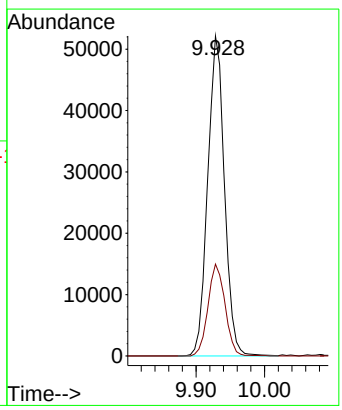


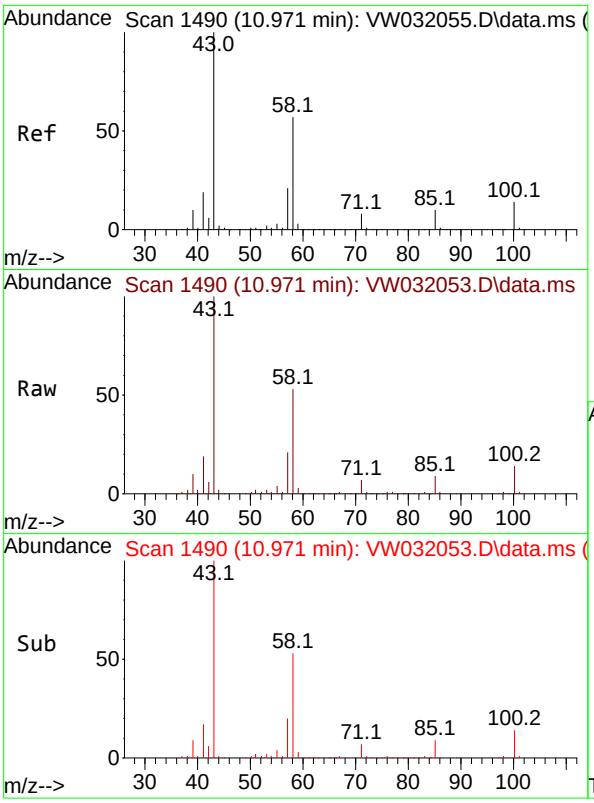


#58
2-Chloroethyl Vinyl ether
Concen: 47.830 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 88627

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.5	35.3





#59
2-Hexanone
Concen: 50.310 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 8283

Ion	Ratio	Lower	Upper
43	100		
58	54.2	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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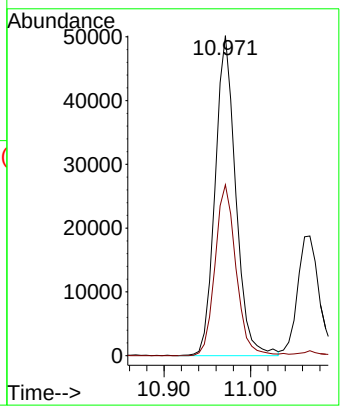
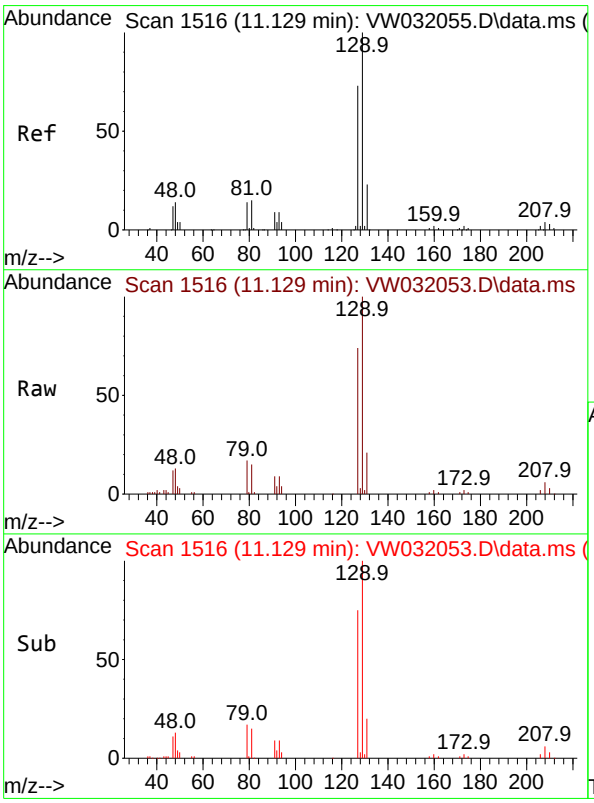
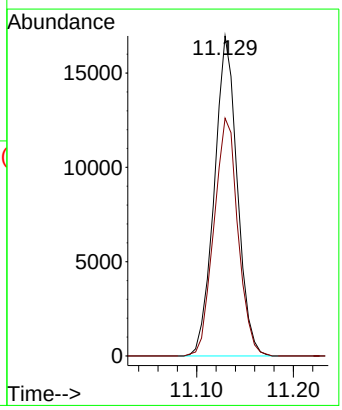


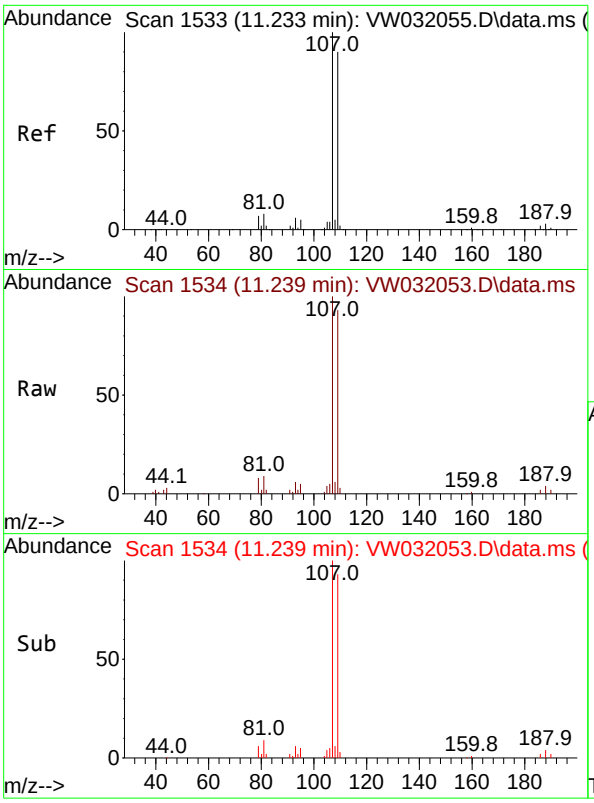


#60
Dibromochloromethane
Concen: 9.776 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:129 Resp: 27954

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	116.9

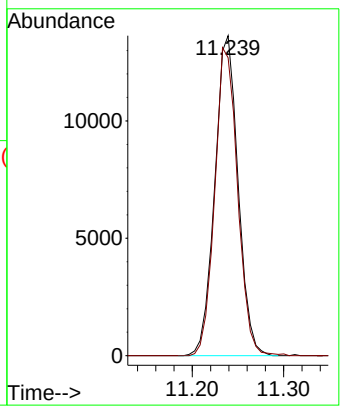




#61
1,2-Dibromoethane
Concen: 9.926 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:107 Resp: 2414

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
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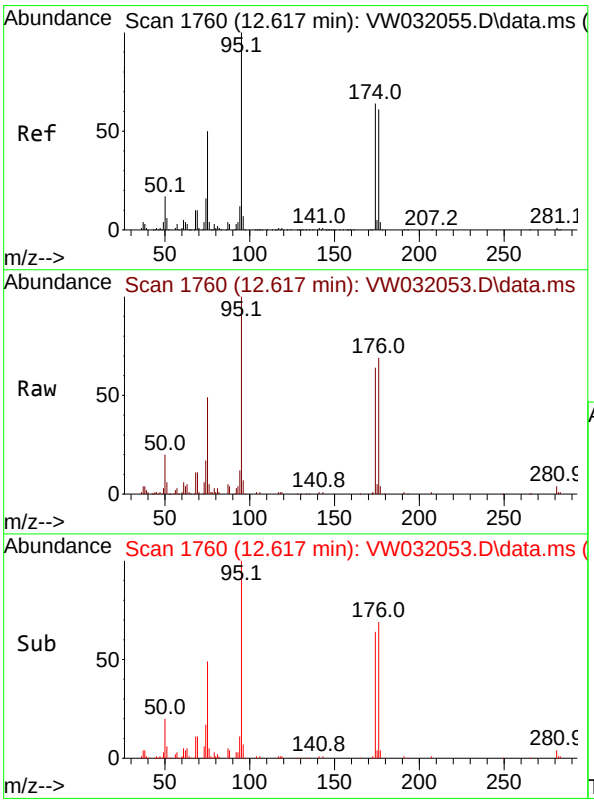
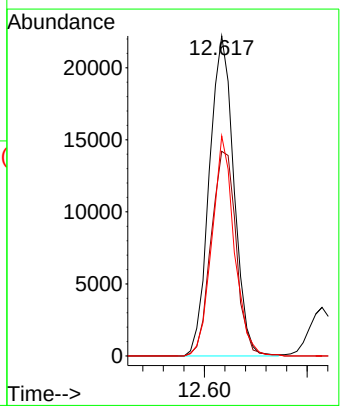
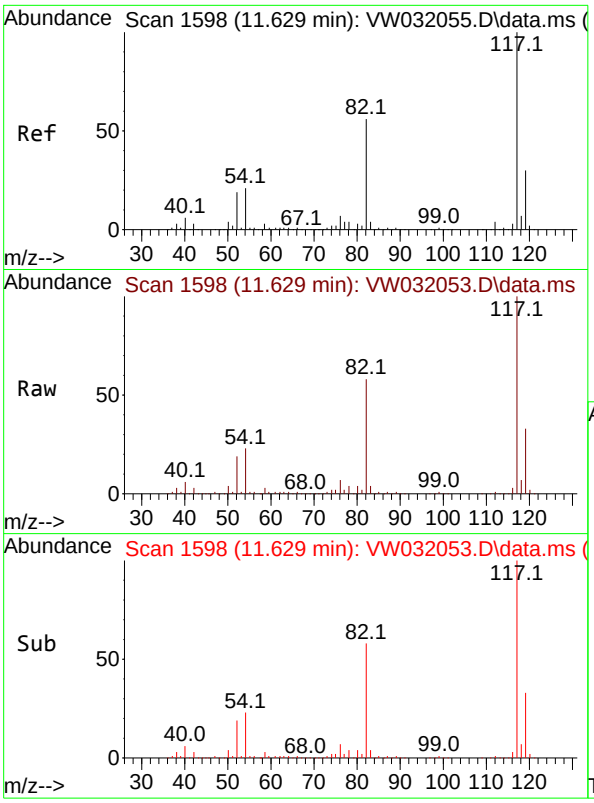


#62
4-Bromofluorobenzene
Concen: 9.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 95 Resp: 36748

Ion	Ratio	Lower	Upper
95	100		
174	65.3	0.0	129.0
176	62.4	0.0	124.6

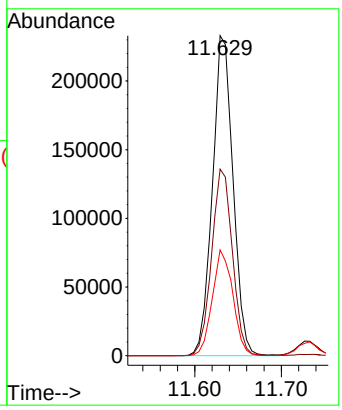




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 38563

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.0	67.4
119	33.0	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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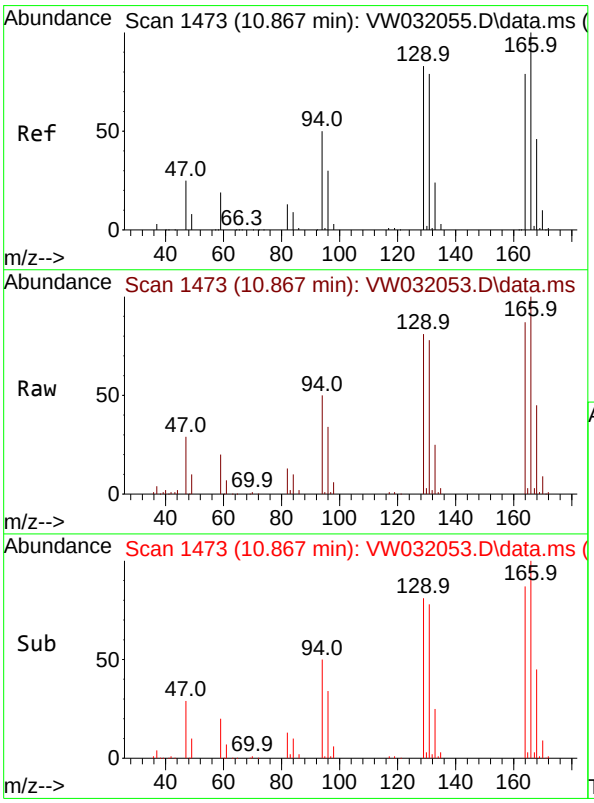
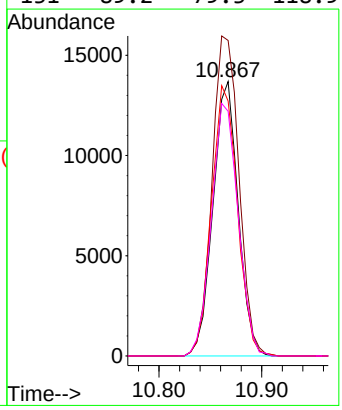
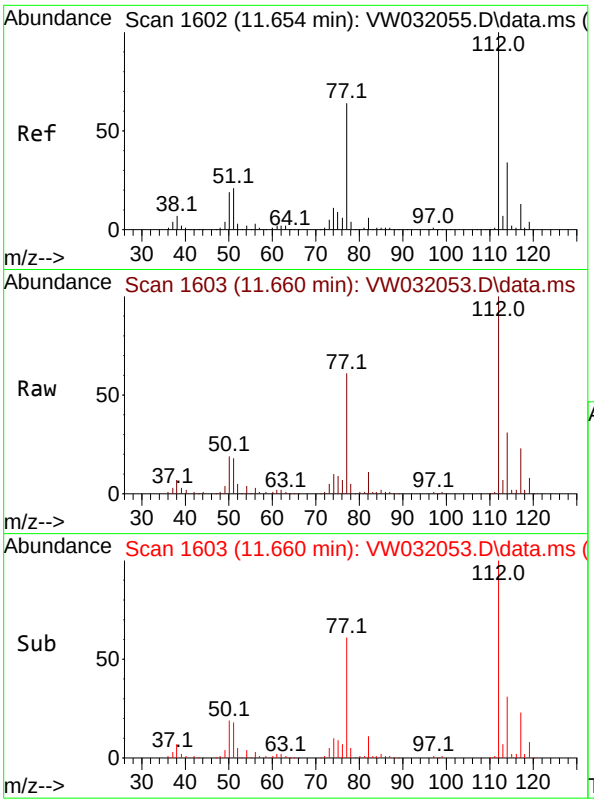


#64
Tetrachloroethene
Concen: 10.431 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:164 Resp: 23235

Ion	Ratio	Lower	Upper
164	100		
166	115.0	100.9	151.3
129	92.9	83.6	125.4
131	89.2	79.3	118.9

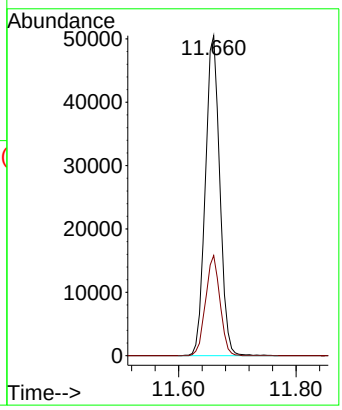




#65
Chlorobenzene
Concen: 10.257 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:112 Resp: 8609

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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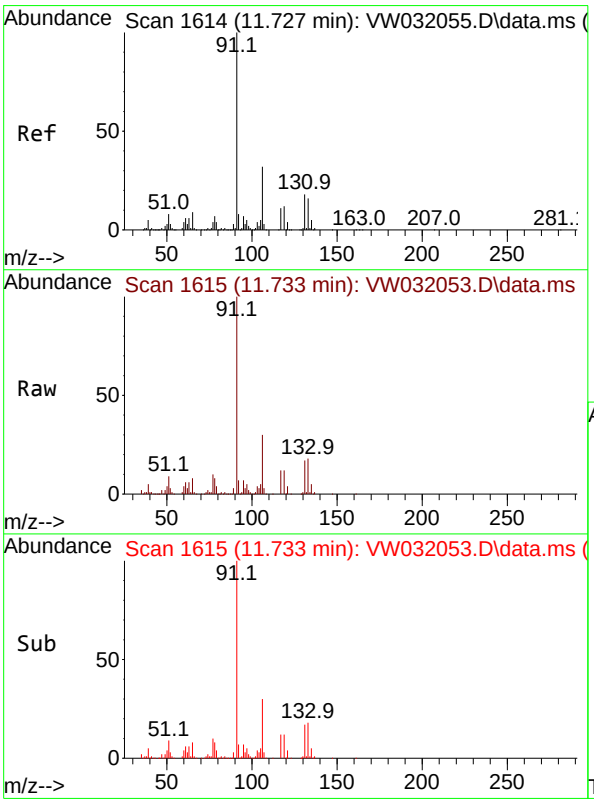
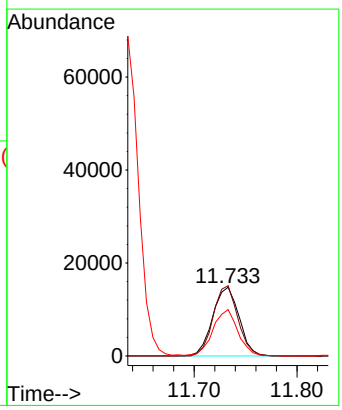
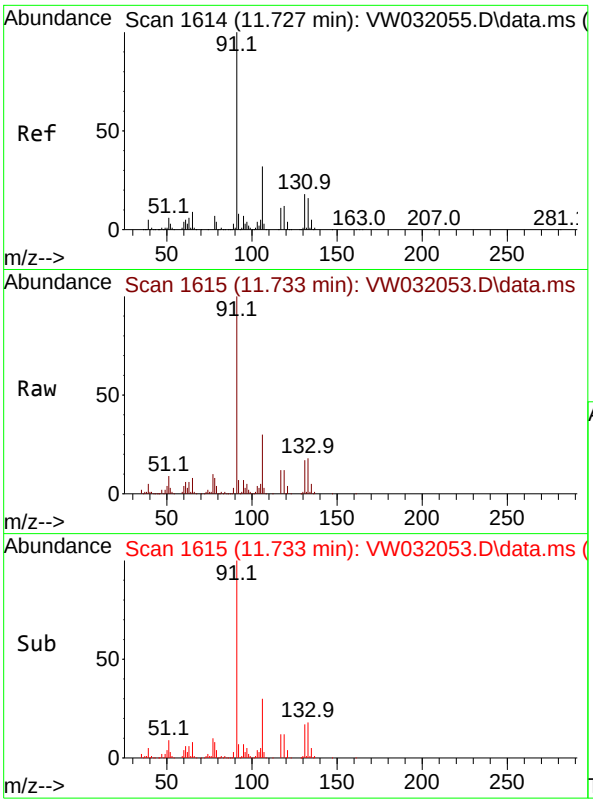


#66
1,1,1,2-Tetrachloroethane
Concen: 10.037 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:131 Resp: 26286

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	142.0
119	64.5	34.5	103.5





#67
Ethyl Benzene
Concen: 9.794 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 13925

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
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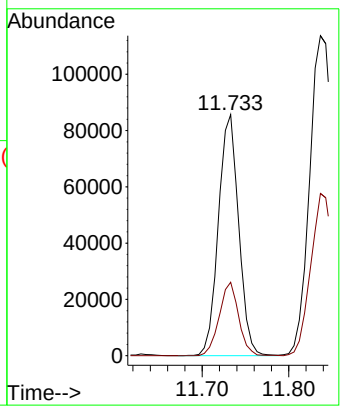
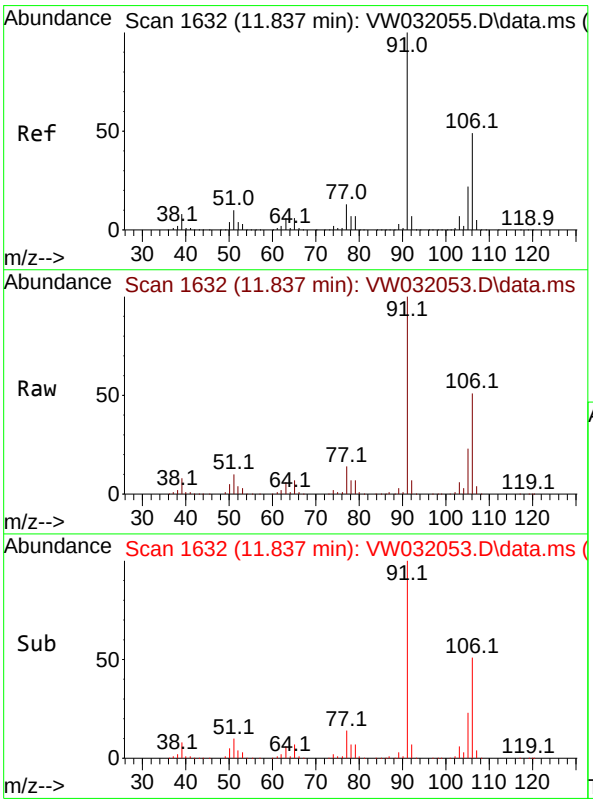
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

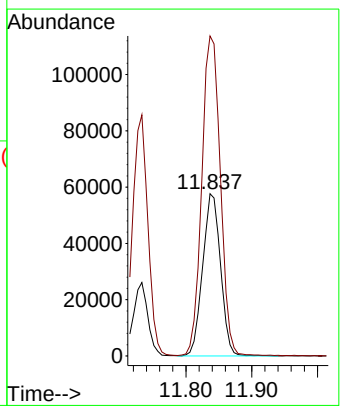


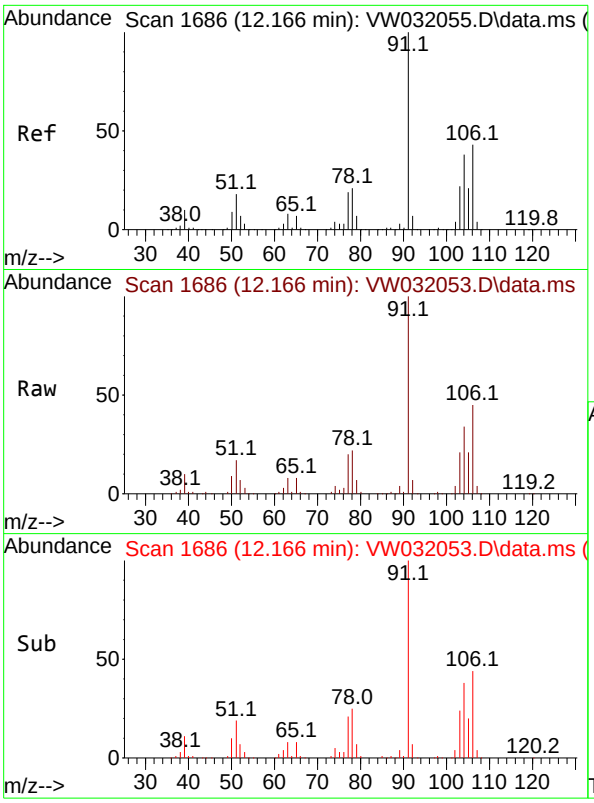


#68
m/p-Xylenes
Concen: 19.866 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 108990

Ion	Ratio	Lower	Upper
106	100		
91	205.0	162.2	243.2

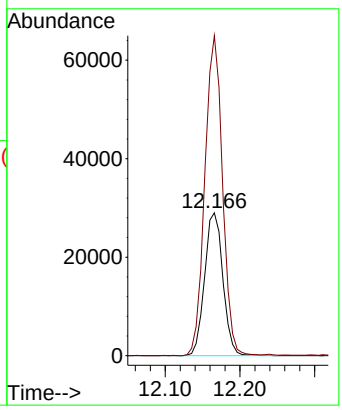




#69
o-Xylene
Concen: 9.714 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 4925

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
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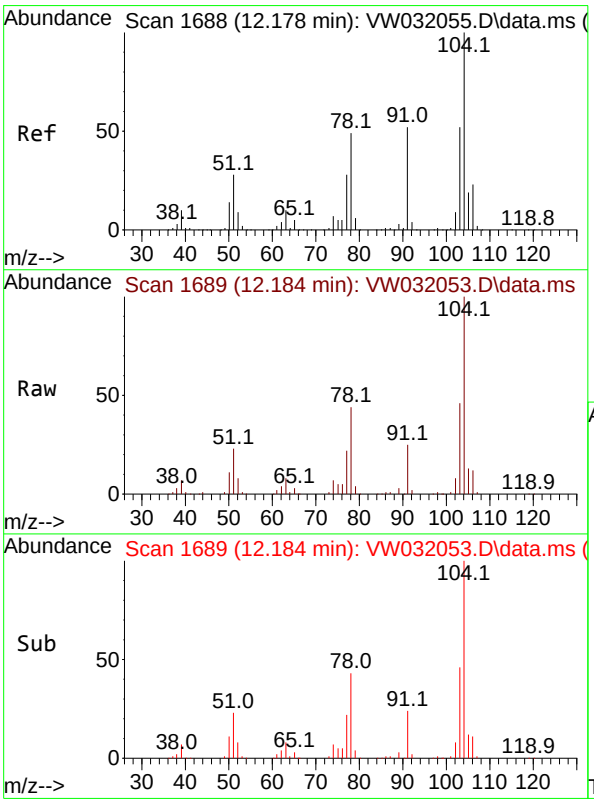
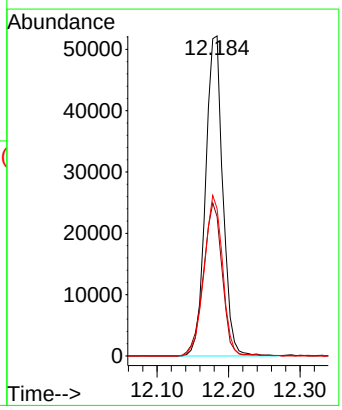
Supervised By :Semsettin Yesilyurt 08/12/2025

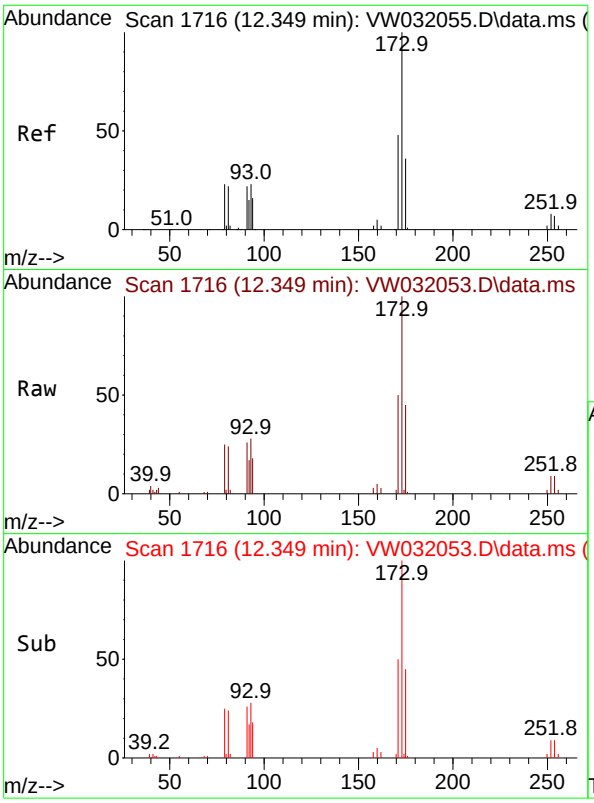


#70
Styrene
Concen: 9.719 ug/l
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:104 Resp: 87542

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.2	61.8
103	53.8	43.8	65.8

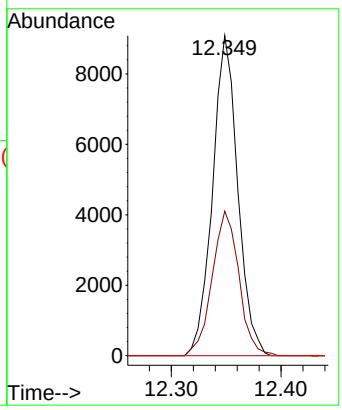




#71
Bromoform
Concen: 9.711 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:173 Resp: 1454

Ion	Ratio	Lower	Upper
173	100		
175	47.8	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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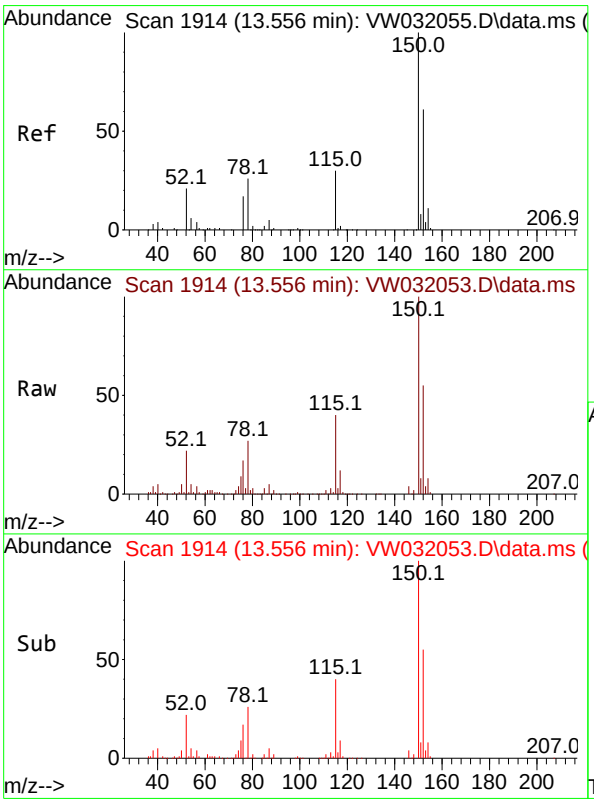
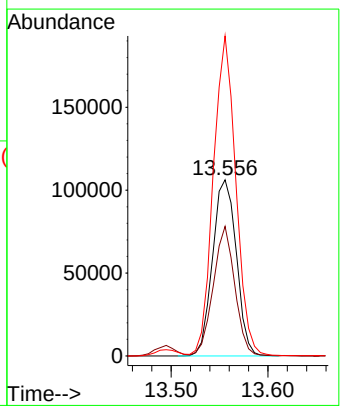
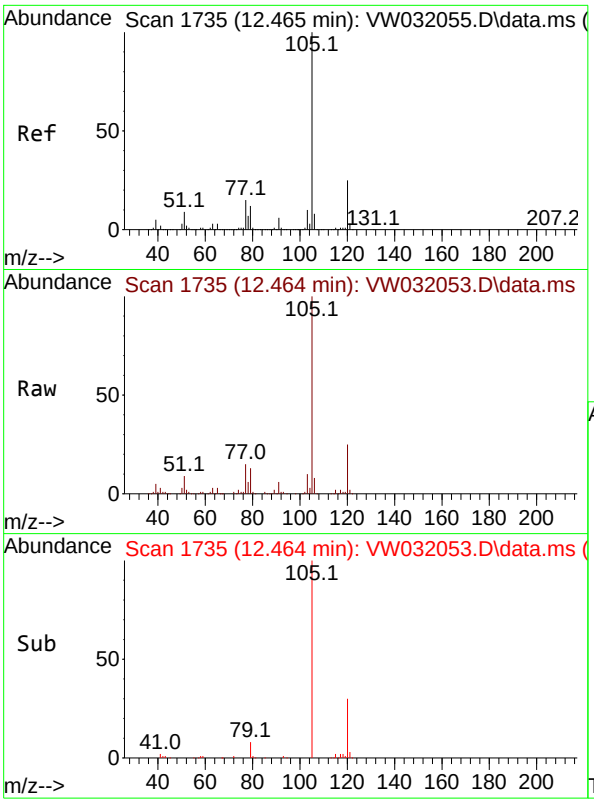


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:152 Resp: 181281

Ion	Ratio	Lower	Upper
152	100		
115	66.5	32.6	97.8
150	171.8	0.0	359.4

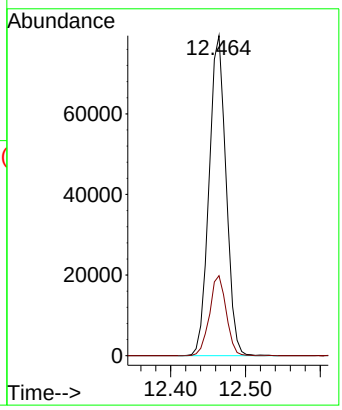




#73
Isopropylbenzene
Concen: 9.886 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 12524

Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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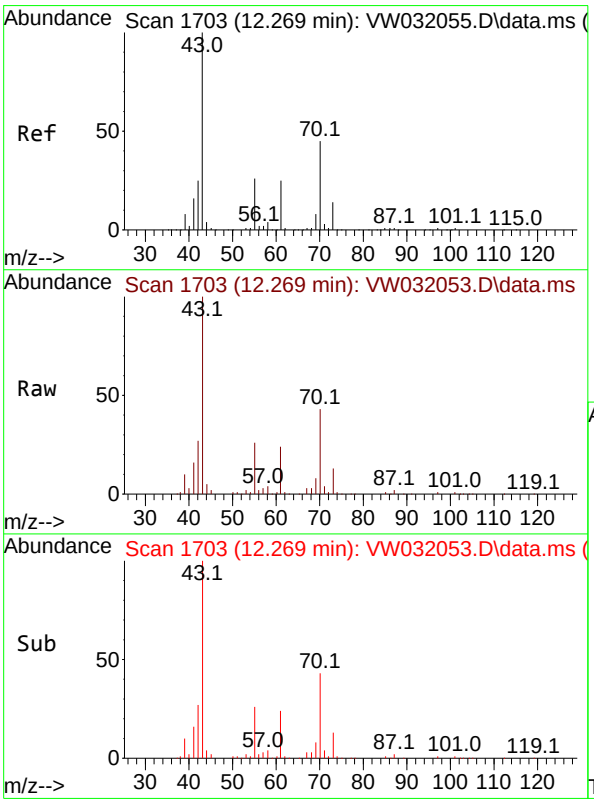
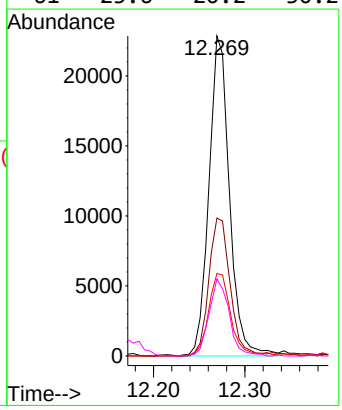
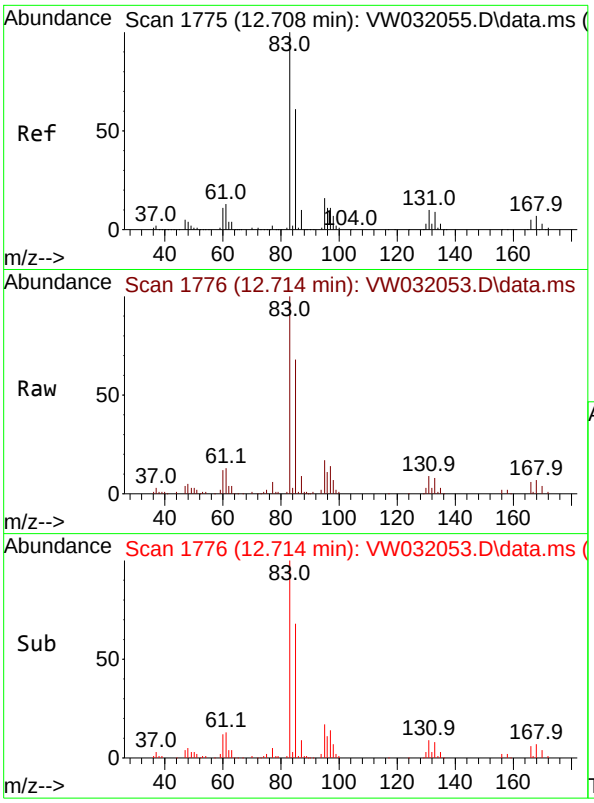


#74
N-amyl acetate
Concen: 9.804 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 35636

Ion	Ratio	Lower	Upper
43	100		
70	44.7	37.0	55.4
55	28.3	21.1	31.7
61	23.6	20.2	30.2





#75
1,1,2,2-Tetrachloroethane
Concen: 10.499 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 3158

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	65.0	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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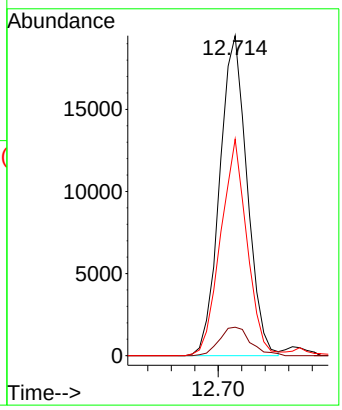
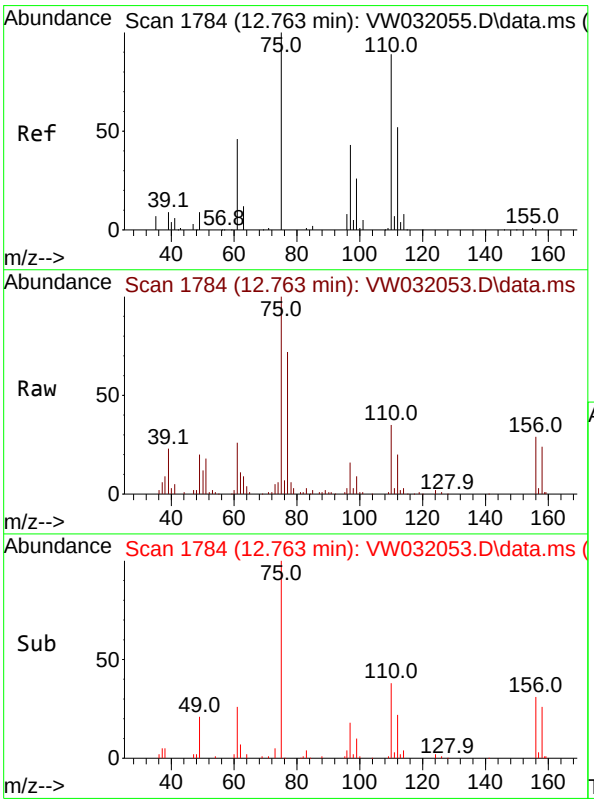
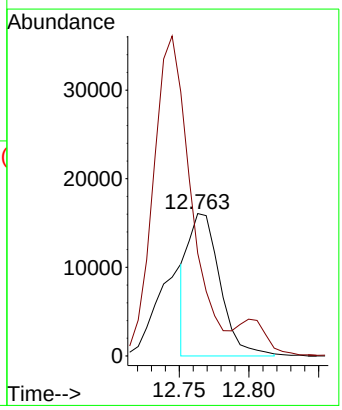


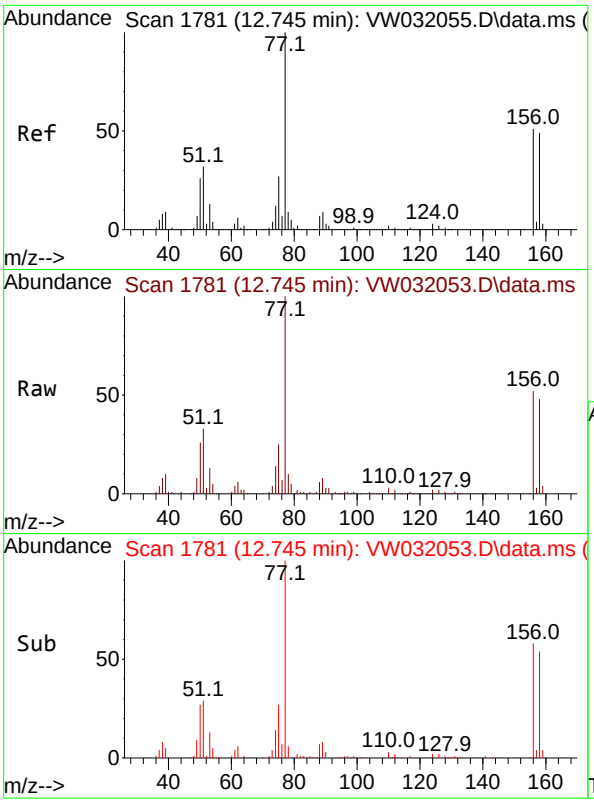


#76
1,2,3-Trichloropropane
Concen: 9.147 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 25489

Ion	Ratio	Lower	Upper
75	100		
77	269.3	123.5	370.5





#77
Bromobenzene
Concen: 10.462 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:156 Resp: 3165

Ion	Ratio	Lower	Upper
156	100		
77	216.8	108.7	326.3
158	90.0	48.3	144.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
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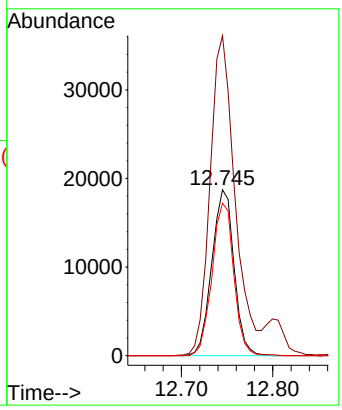
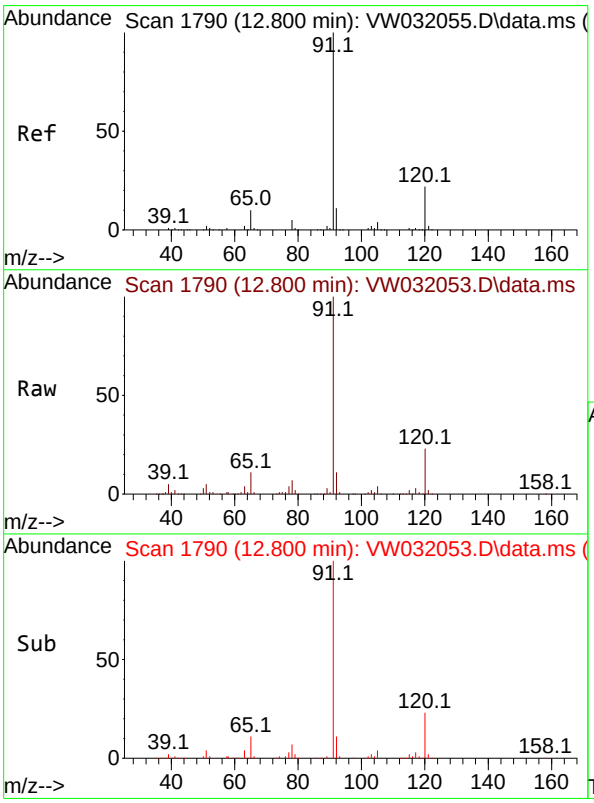
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

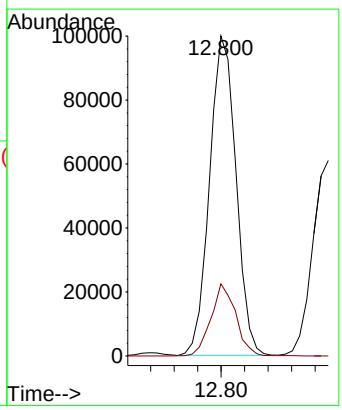


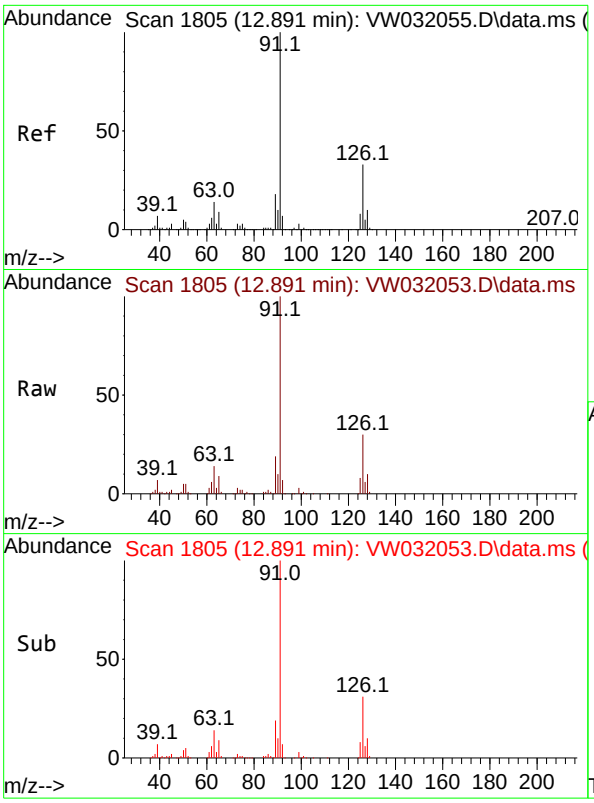


#78
n-propylbenzene
Concen: 10.019 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 156266

Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.1	33.3

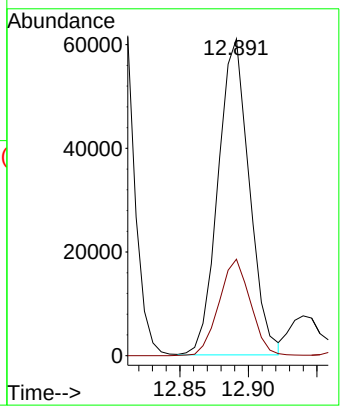




#79
2-Chlorotoluene
Concen: 10.071 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 9694

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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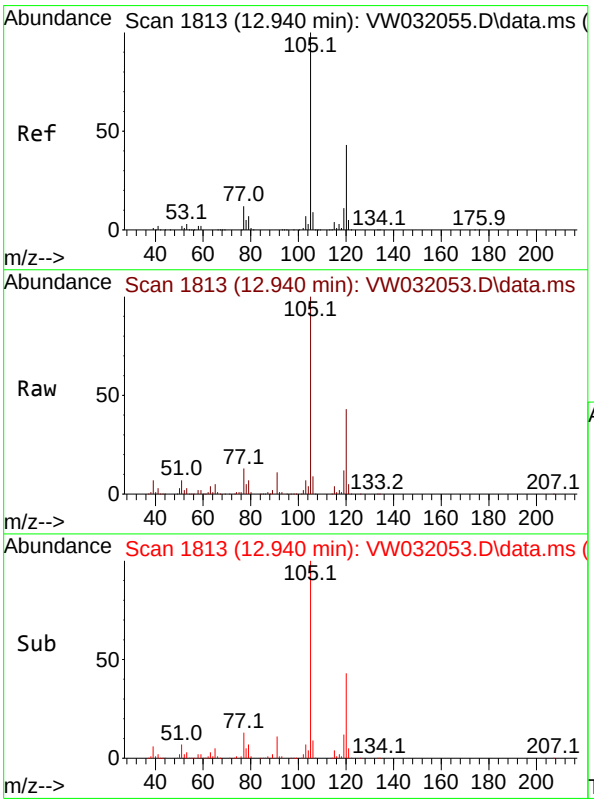
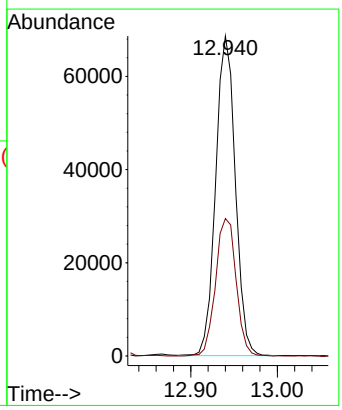
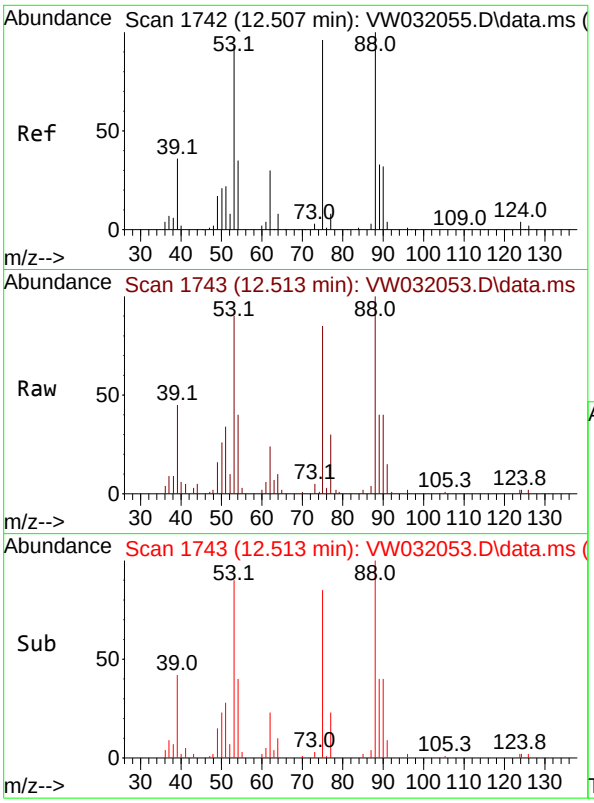


#80
1,3,5-Trimethylbenzene
Concen: 10.053 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 108123

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 9.403 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 893

Ion	Ratio	Lower	Upper
75	100		
53	115.3	81.0	121.6
89	47.3	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
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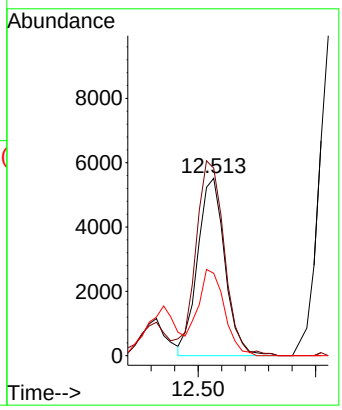
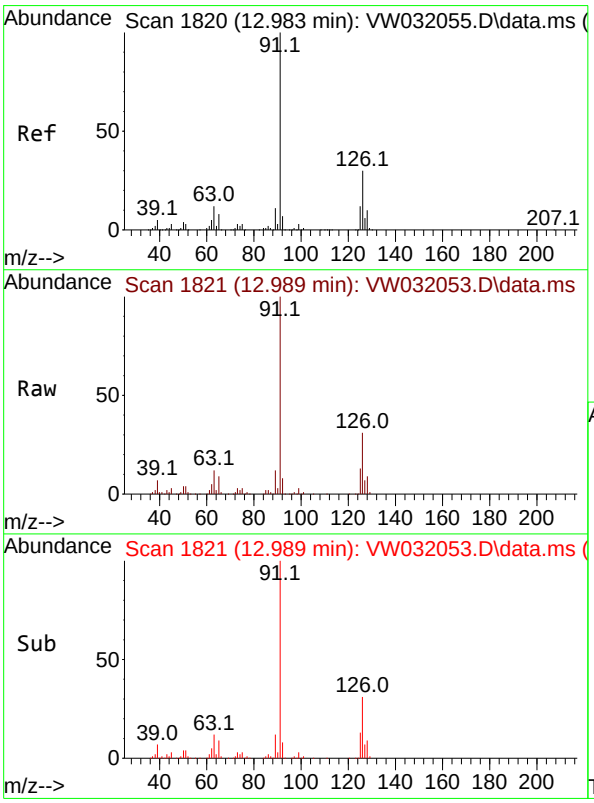
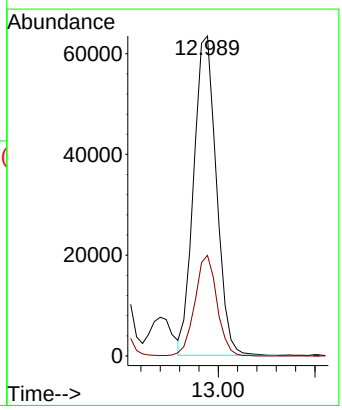


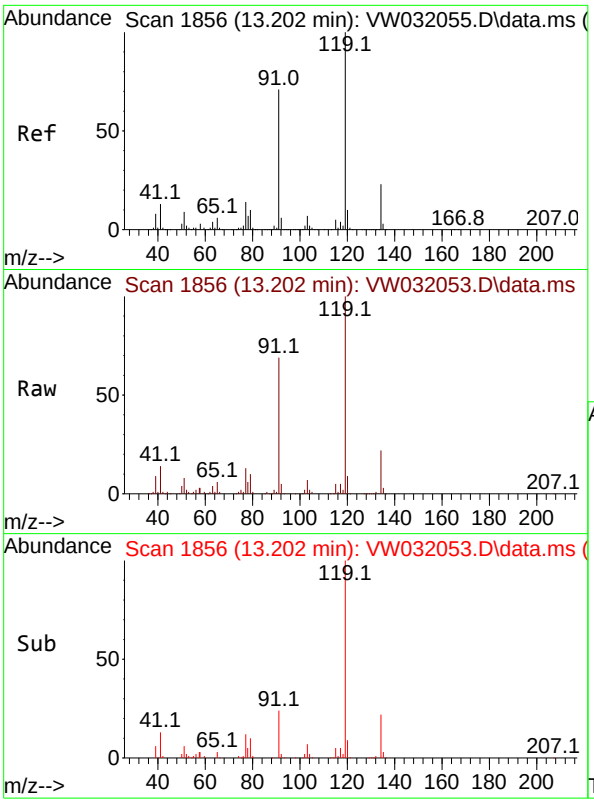


#82
4-Chlorotoluene
Concen: 10.103 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 103329

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.5	46.5

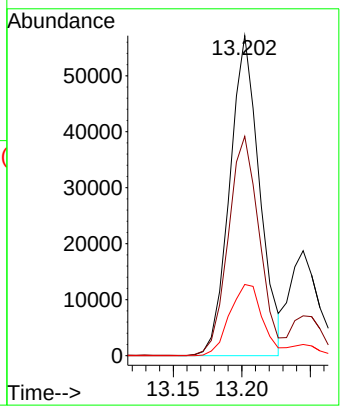




#83
tert-Butylbenzene
Concen: 9.729 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 8684

Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.3	105.9
134	24.8	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
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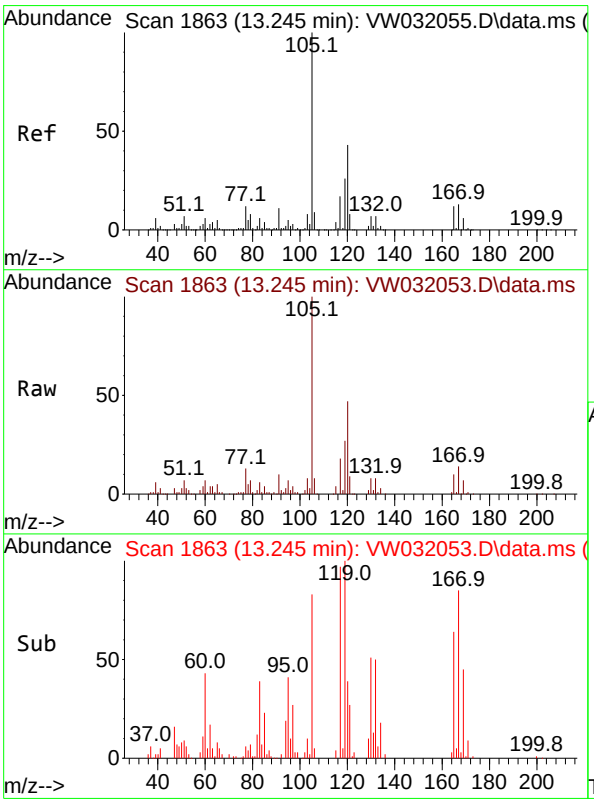
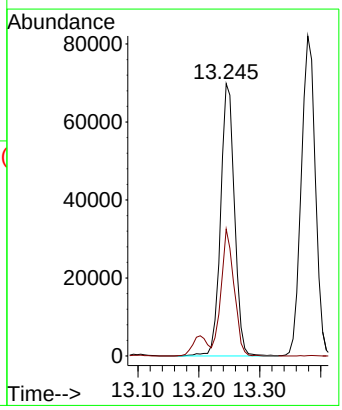
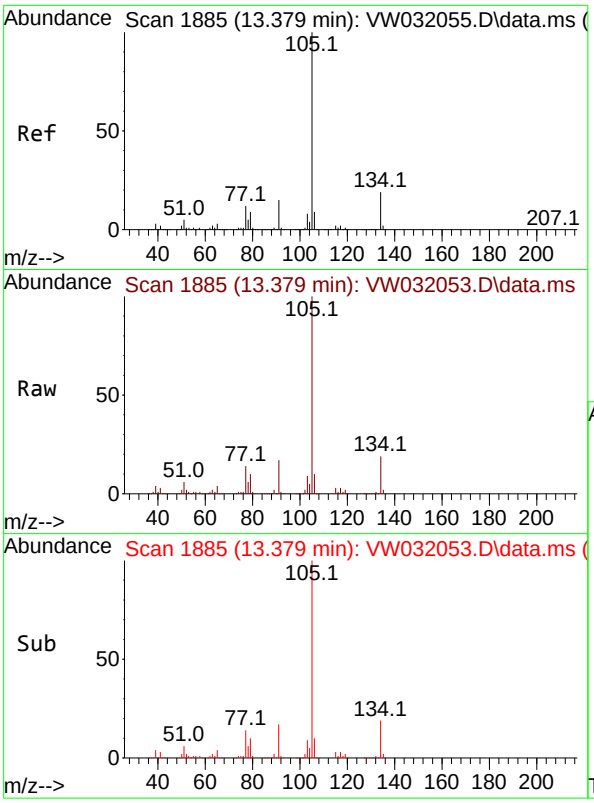


#84
1,2,4-Trimethylbenzene
Concen: 10.110 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 110697

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8





#85
sec-Butylbenzene
Concen: 9.756 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

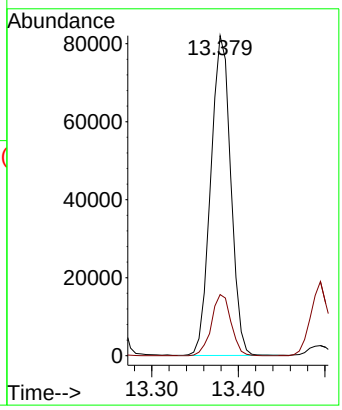
Tgt Ion:105 Resp: 13166

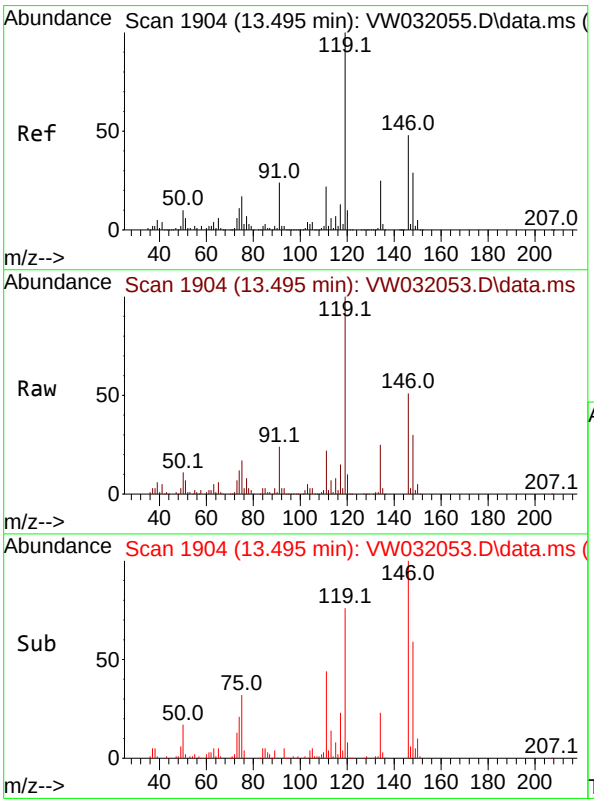
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

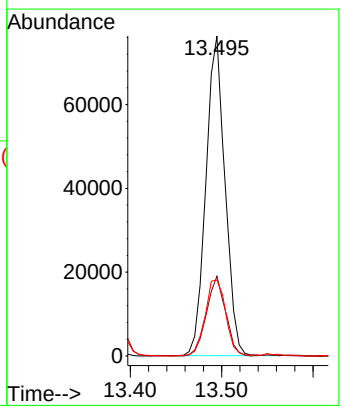


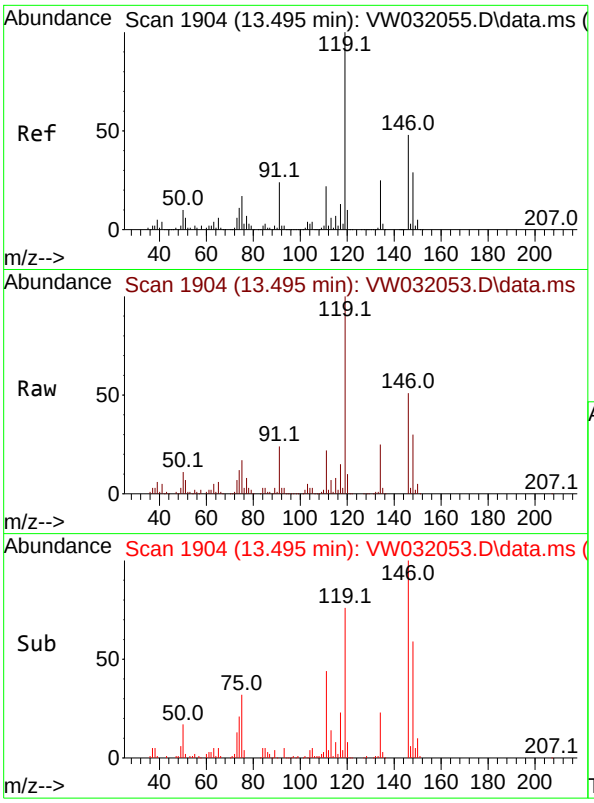


#86
p-Isopropyltoluene
Concen: 9.827 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 110557

Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.4	37.0
91	25.8	12.1	36.3

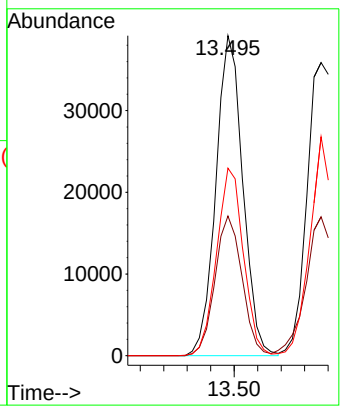




#87
1,3-Dichlorobenzene
Concen: 10.361 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 6238

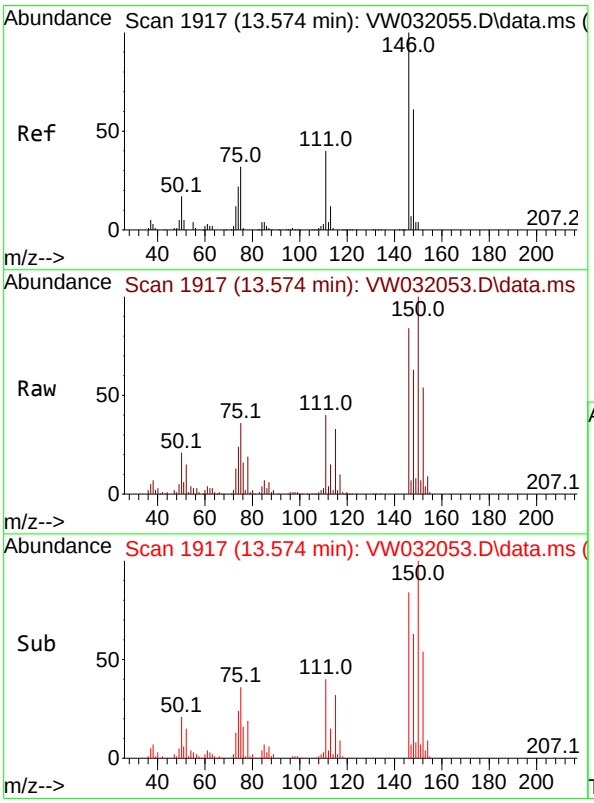
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.2	63.6
148	58.5	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

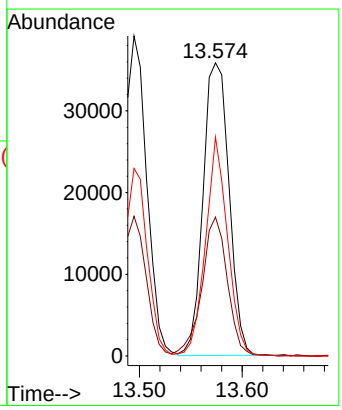
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

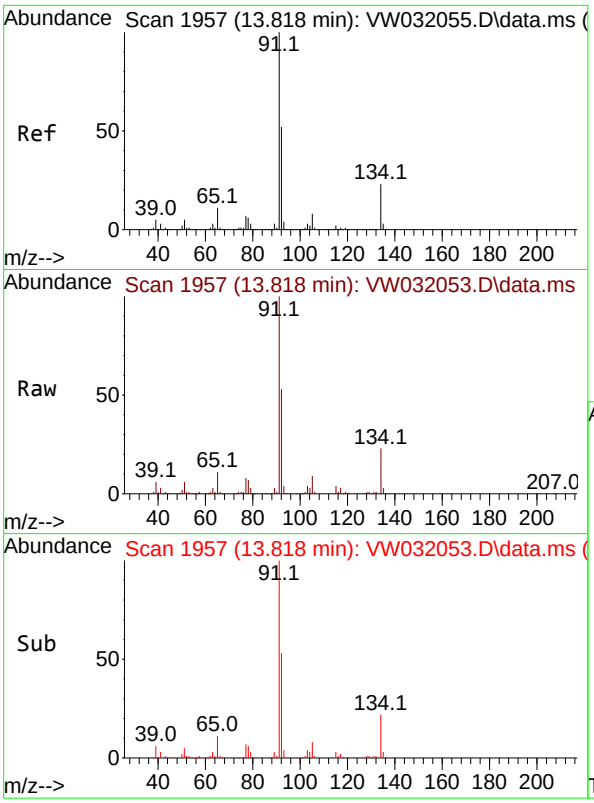


#88
1,4-Dichlorobenzene
Concen: 10.328 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 62843

Ion	Ratio	Lower	Upper
146	100		
111	46.7	21.6	64.6
148	63.8	32.0	96.2

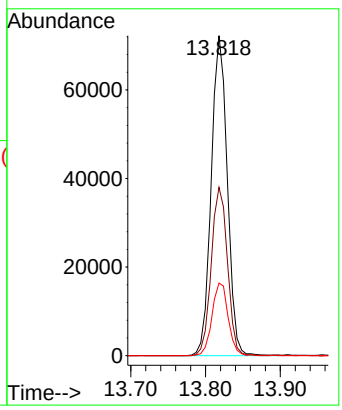




#89
n-Butylbenzene
Concen: 9.881 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 10800

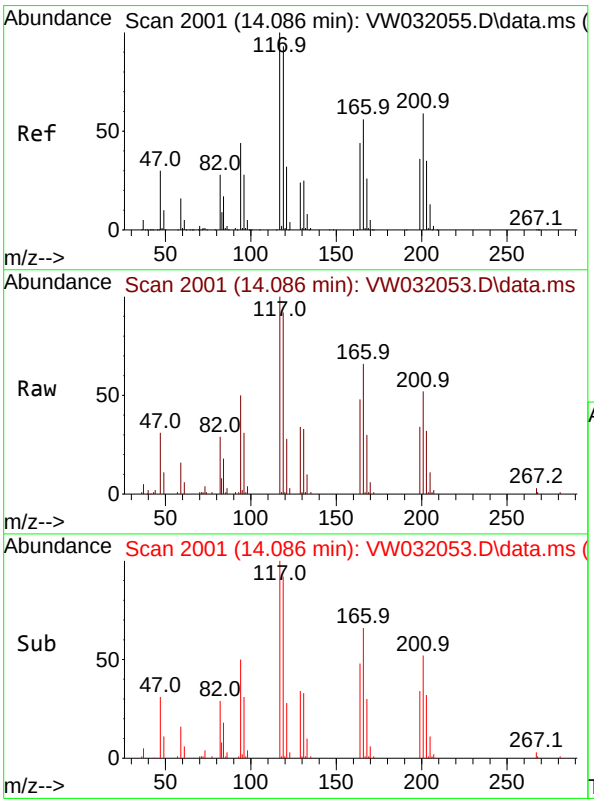
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.1
134	22.8	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

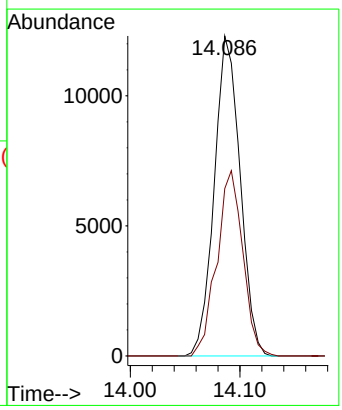
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

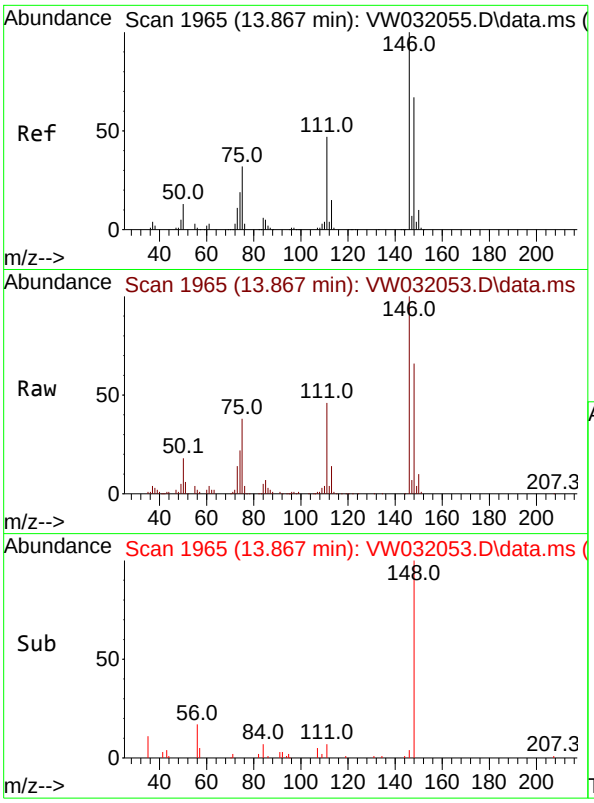


#90
Hexachloroethane
Concen: 9.805 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 20175

Ion	Ratio	Lower	Upper
117	100		
201	58.3	30.9	92.5

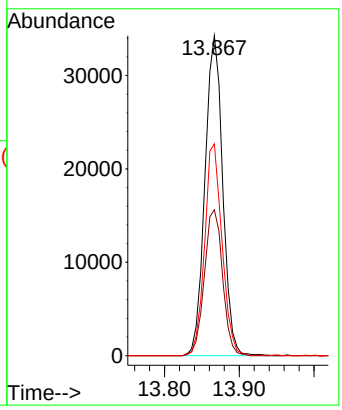




#91
1,2-Dichlorobenzene
Concen: 10.359 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 5650

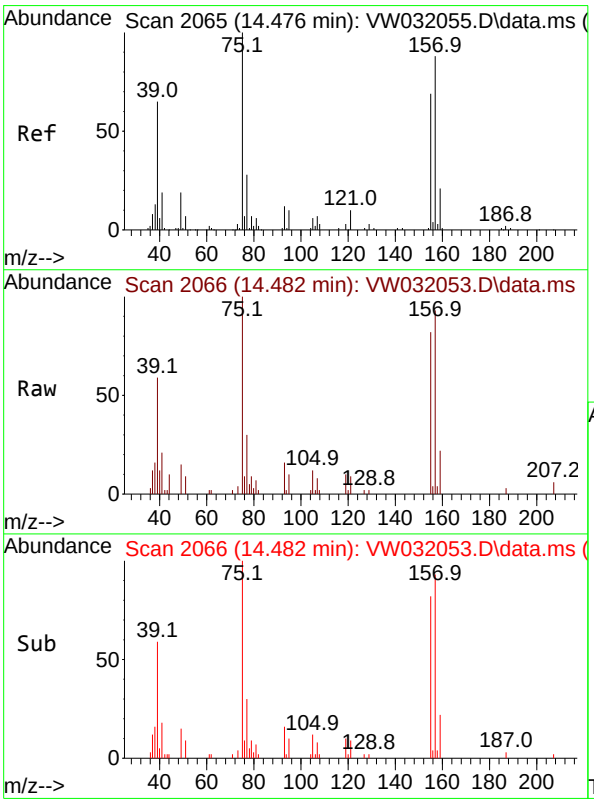
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.1	69.3
148	64.9	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

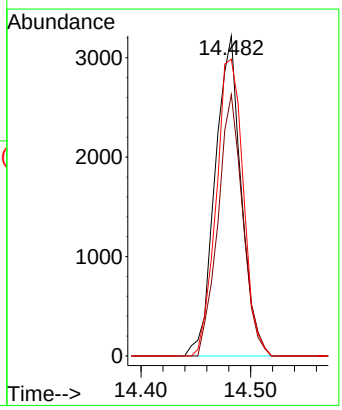
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

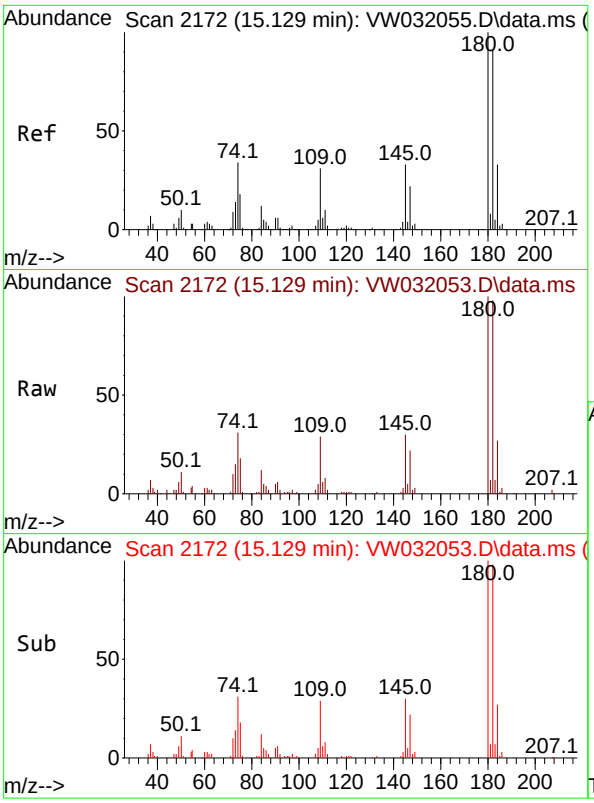


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.920 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 5305

Ion	Ratio	Lower	Upper
75	100		
155	77.5	35.2	105.6
157	96.6	47.5	142.6

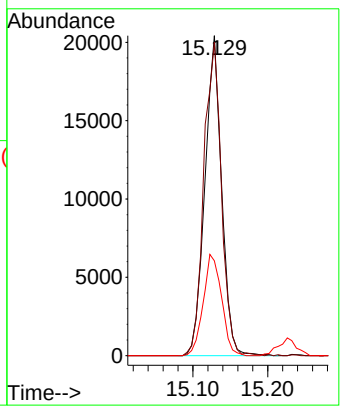




#93
1,2,4-Trichlorobenzene
Concen: 9.751 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 3181

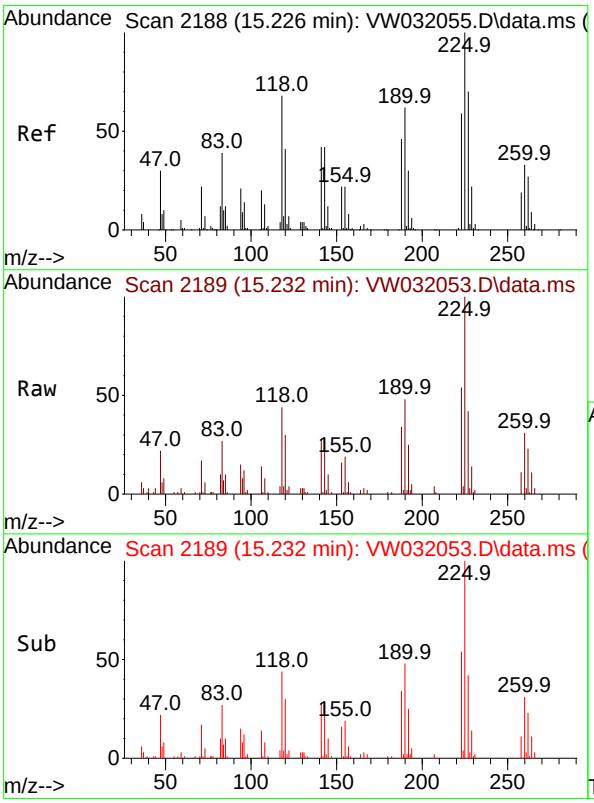
Ion	Ratio	Lower	Upper
180	100		
182	102.4	49.0	147.0
145	34.6	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

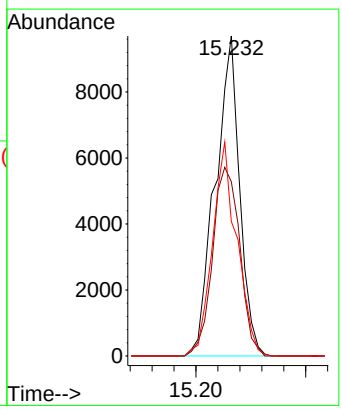
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

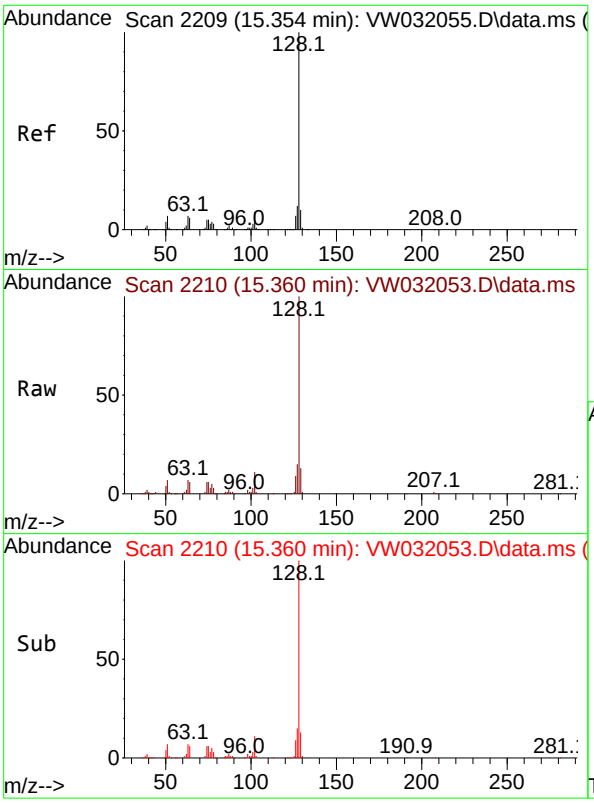


#94
Hexachlorobutadiene
Concen: 10.276 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:225 Resp: 14987

Ion	Ratio	Lower	Upper
225	100		
223	65.5	31.8	95.3
227	66.4	33.5	100.5

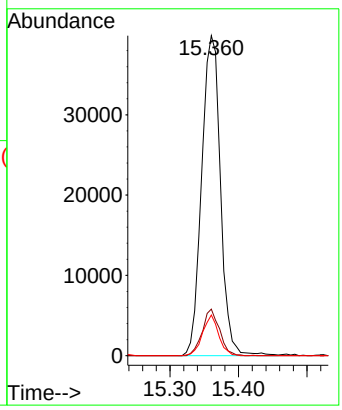




#95
Naphthalene
Concen: 9.542 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:128 Resp: 7628

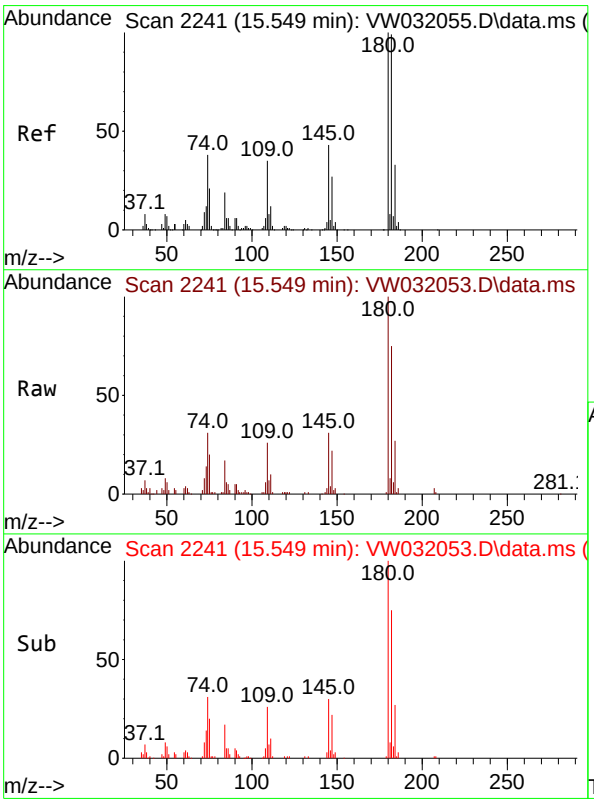
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.9	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

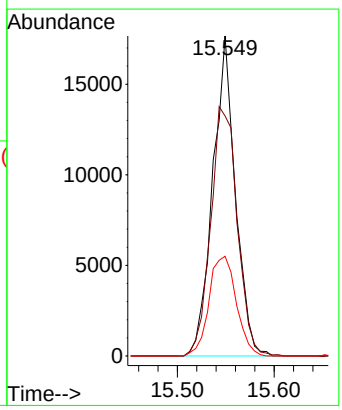
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 9.660 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 28678

Ion	Ratio	Lower	Upper
180	100		
182	91.5	46.0	138.0
145	37.6	19.2	57.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	221832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	428395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	386857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	191343	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	63857	19.904	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	39.800%#		
35) Dibromofluoromethane	7.898	113	55788	20.158	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	40.320%#		
50) Toluene-d8	10.325	98	206901	20.212	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	40.420%#		
62) 4-Bromofluorobenzene	12.617	95	76008	20.149	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	40.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	34171	21.537	ug/l	94
3) Chloromethane	2.253	50	44499	20.821	ug/l	99
4) Vinyl Chloride	2.405	62	57293	22.162	ug/l	91
5) Bromomethane	2.814	94	41008	21.144	ug/l	93
6) Chloroethane	2.966	64	36220	21.173	ug/l	100
7) Trichlorofluoromethane	3.302	101	38977	18.821	ug/l	99
8) Diethyl Ether	3.716	74	34764	20.489	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.088	101	52165	21.351	ug/l	99
10) Methyl Iodide	4.308	142	74197	21.419	ug/l	99
11) Tert butyl alcohol	5.216	59	18539	89.237	ug/l	100
12) 1,1-Dichloroethene	4.076	96	57624	21.419	ug/l	98
13) Acrolein	3.923	56	32512	98.218	ug/l	96
14) Allyl chloride	4.698	41	81458	20.804	ug/l	99
15) Acrylonitrile	5.393	53	75311	93.190	ug/l	98
16) Acetone	4.155	43	67134	90.379	ug/l	99
17) Carbon Disulfide	4.417	76	153247	21.222	ug/l	97
18) Methyl Acetate	4.704	43	43536	18.522	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	96253	20.306	ug/l	99
20) Methylene Chloride	4.948	84	74547	21.706	ug/l	94
21) trans-1,2-Dichloroethene	5.454	96	59717	20.917	ug/l	97
22) Diisopropyl ether	6.338	45	172071	20.846	ug/l	99
23) Vinyl Acetate	6.277	43	539862	99.617	ug/l	99
24) 1,1-Dichloroethane	6.240	63	110835	21.016	ug/l	98
25) 2-Butanone	7.191	43	96191	91.114	ug/l	97
26) 2,2-Dichloropropane	7.179	77	53780	20.327	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	68545	20.540	ug/l	99
28) Bromochloromethane	7.527	49	48715	20.298	ug/l	99
29) Tetrahydrofuran	7.551	42	64317	92.379	ug/l	98
30) Chloroform	7.691	83	117474	21.011	ug/l	97
31) Cyclohexane	7.965	56	95253	20.833	ug/l	98
32) 1,1,1-Trichloroethane	7.880	97	85600	21.078	ug/l	97
36) 1,1-Dichloropropene	8.087	75	80811	20.712	ug/l	99
37) Ethyl Acetate	7.270	43	41235	17.945	ug/l	98
38) Carbon Tetrachloride	8.081	117	77289	20.527	ug/l	91
39) Methylcyclohexane	9.337	83	97412	20.484	ug/l	94
40) Benzene	8.331	78	246590	20.333	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	25075	19.242	ug/l		97
42) 1,2-Dichloroethane	8.410	62	78543	20.239	ug/l		99
43) Isopropyl Acetate	8.435	43	78887	18.660	ug/l		98
44) Trichloroethene	9.099	130	58636	20.302	ug/l		99
45) 1,2-Dichloropropane	9.374	63	60346	20.597	ug/l		100
46) Dibromomethane	9.465	93	37580	19.873	ug/l		98
47) Bromodichloromethane	9.648	83	86577	19.869	ug/l		92
48) Methyl methacrylate	9.441	41	38175	18.704	ug/l		97
49) 1,4-Dioxane	9.459	88	8924	364.998	ug/l		97
51) 4-Methyl-2-Pentanone	10.209	43	220661	92.472	ug/l		99
52) Toluene	10.392	92	155974	20.418	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	79452	19.463	ug/l		97
54) cis-1,3-Dichloropropene	10.075	75	90828	19.612	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	49974	19.888	ug/l		95
56) Ethyl methacrylate	10.648	69	62694	18.645	ug/l		97
57) 1,3-Dichloropropane	10.934	76	86678	19.790	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	176339	94.809	ug/l		98
59) 2-Hexanone	10.971	43	151264	91.530	ug/l		100
60) Dibromochloromethane	11.130	129	56607	19.721	ug/l		100
61) 1,2-Dibromoethane	11.233	107	47302	19.371	ug/l		100
64) Tetrachloroethene	10.861	164	45660	20.434	ug/l		99
65) Chlorobenzene	11.654	112	169830	20.169	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.727	131	52937	20.150	ug/l		98
67) Ethyl Benzene	11.727	91	297193	20.836	ug/l		97
68) m/p-Xylenes	11.837	106	233224	42.376	ug/l		98
69) o-Xylene	12.166	106	104192	20.482	ug/l		100
70) Styrene	12.178	104	189664	20.991	ug/l		98
71) Bromoform	12.349	173	28540	18.991	ug/l	#	96
73) Isopropylbenzene	12.459	105	269829	20.178	ug/l		99
74) N-amyl acetate	12.270	43	69075	18.005	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.709	83	58836	18.531	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	51456m	17.494	ug/l		
77) Bromobenzene	12.745	156	61389	19.221	ug/l		98
78) n-propylbenzene	12.800	91	337098	20.476	ug/l		100
79) 2-Chlorotoluene	12.885	91	203918	20.069	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	229615	20.226	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.507	75	17512	17.458	ug/l		92
82) 4-Chlorotoluene	12.983	91	218637	20.253	ug/l		98
83) tert-Butylbenzene	13.202	119	194168	20.608	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	240078	20.774	ug/l		100
85) sec-Butylbenzene	13.379	105	292689	20.547	ug/l		97
86) p-Isopropyltoluene	13.495	119	245081	20.638	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	128893	20.282	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	133097	20.724	ug/l		97
89) n-Butylbenzene	13.818	91	234522	20.328	ug/l		99
90) Hexachloroethane	14.086	117	43226	19.904	ug/l		93
91) 1,2-Dichlorobenzene	13.861	146	114056	19.812	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10011	17.736	ug/l		95
93) 1,2,4-Trichlorobenzene	15.123	180	69229	20.102	ug/l		95
94) Hexachlorobutadiene	15.226	225	30358	19.720	ug/l		91
95) Naphthalene	15.360	128	153137	18.147	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	61526	19.635	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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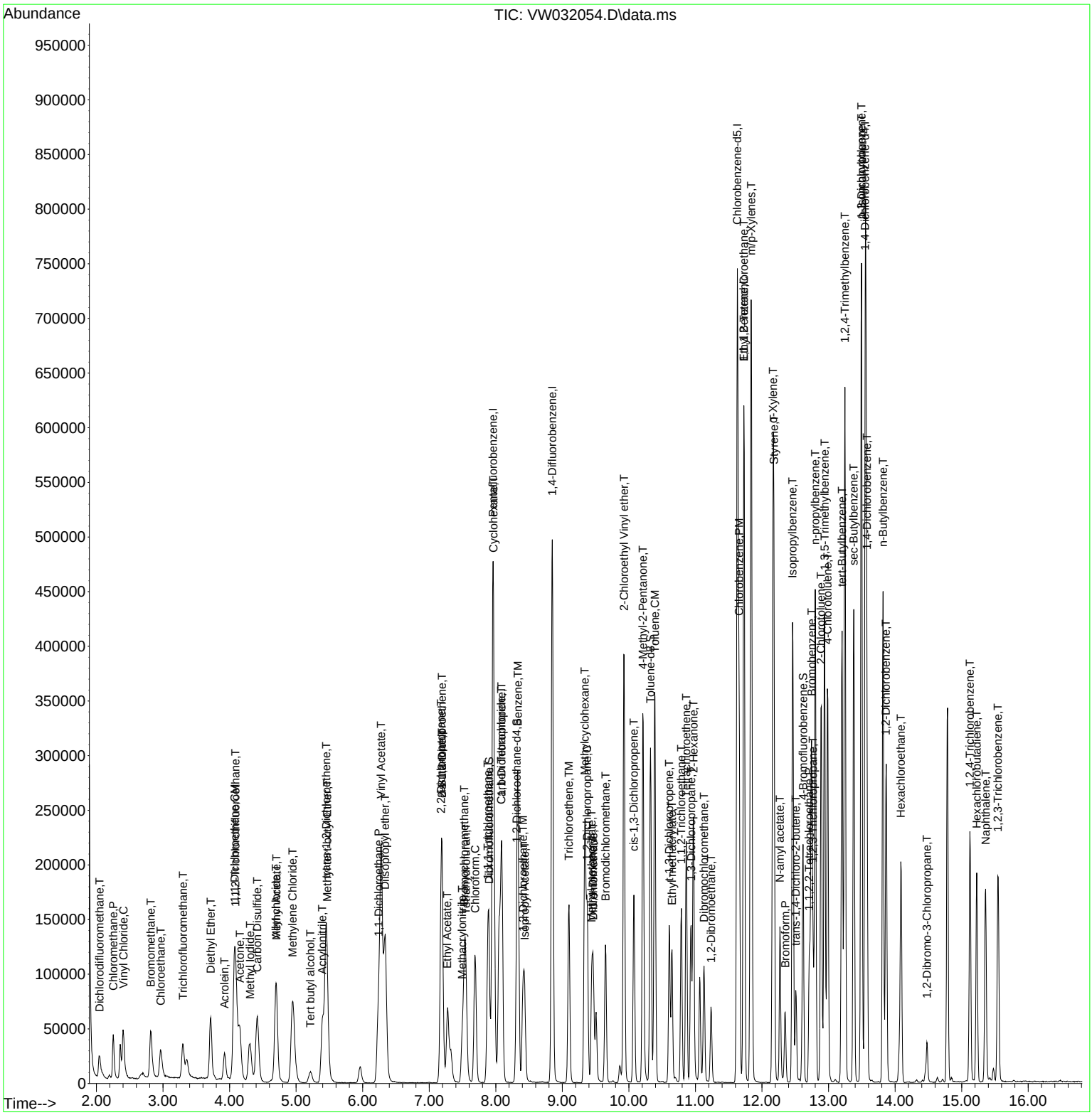
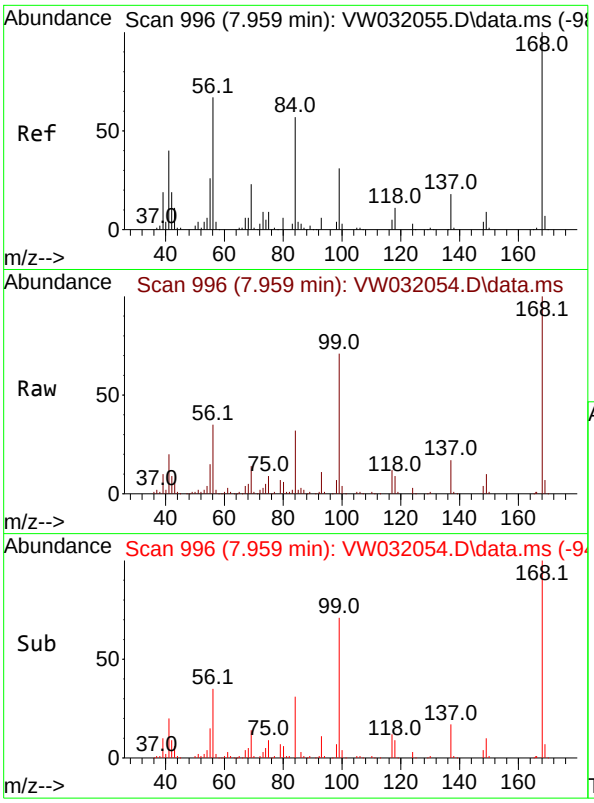
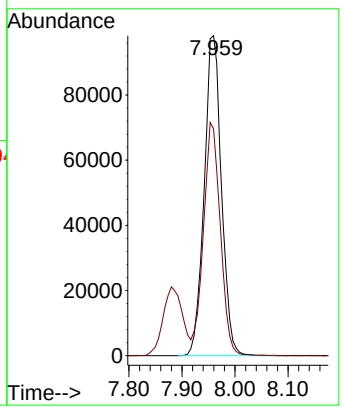




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:168 Resp: 22183

Ion	Ratio	Lower	Upper
168	100		
99	70.9	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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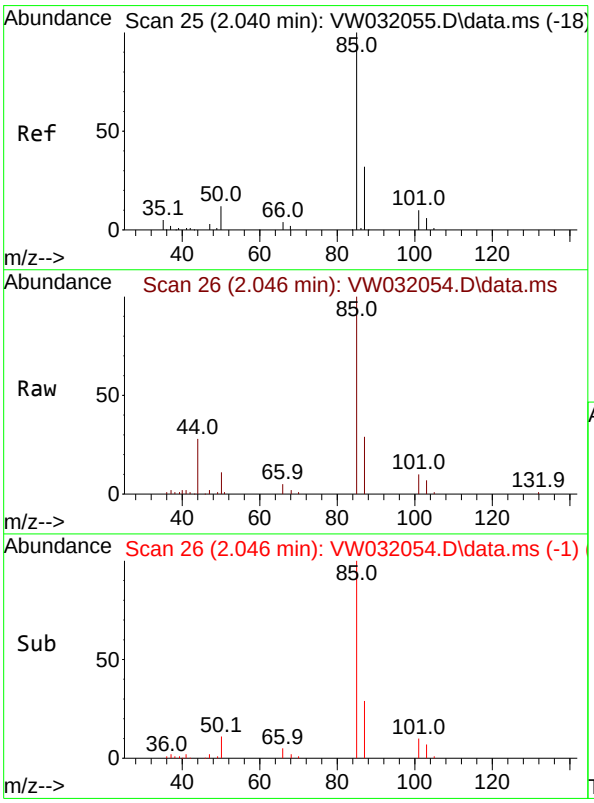
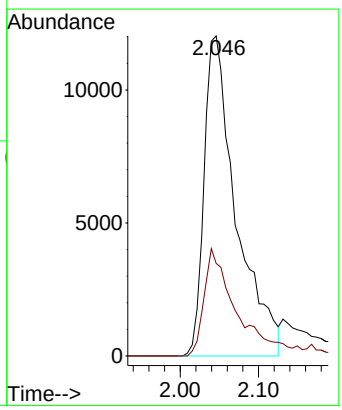
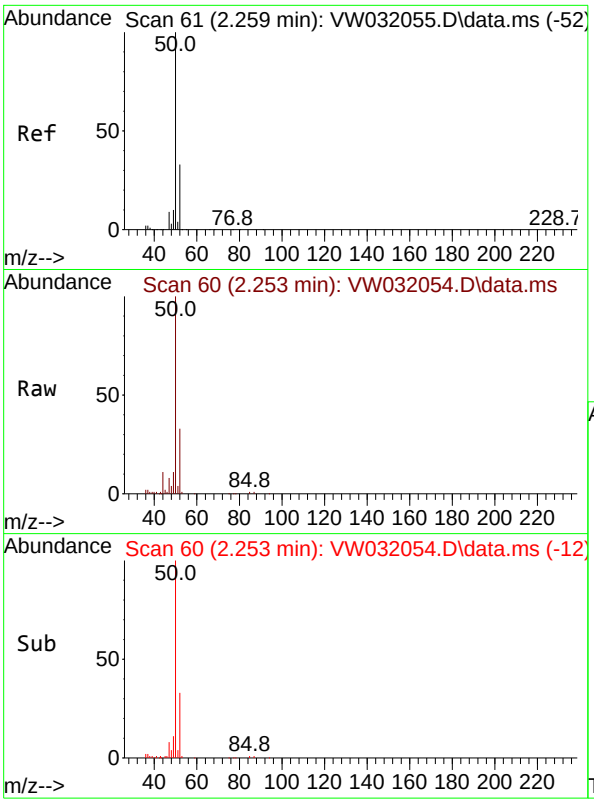


#2
Dichlorodifluoromethane
Concen: 21.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 85 Resp: 34171

Ion	Ratio	Lower	Upper
85	100		
87	29.0	16.2	48.6

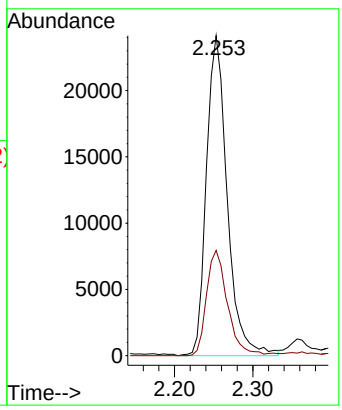




#3
Chloromethane
Concen: 20.821 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 50 Resp: 4449

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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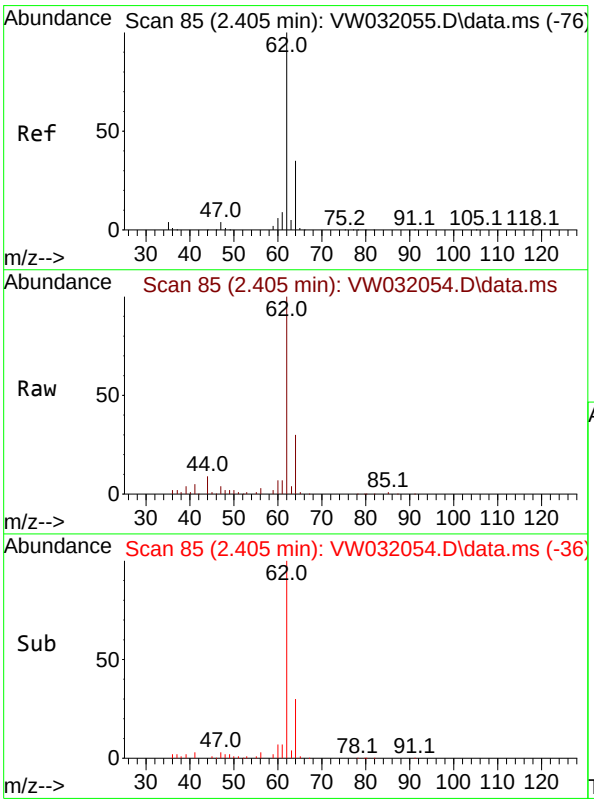
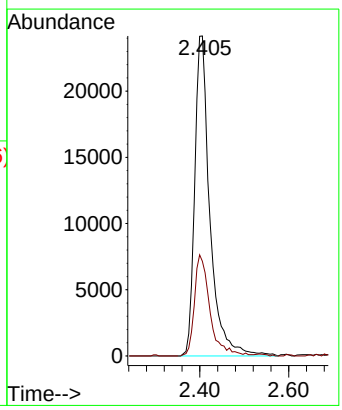
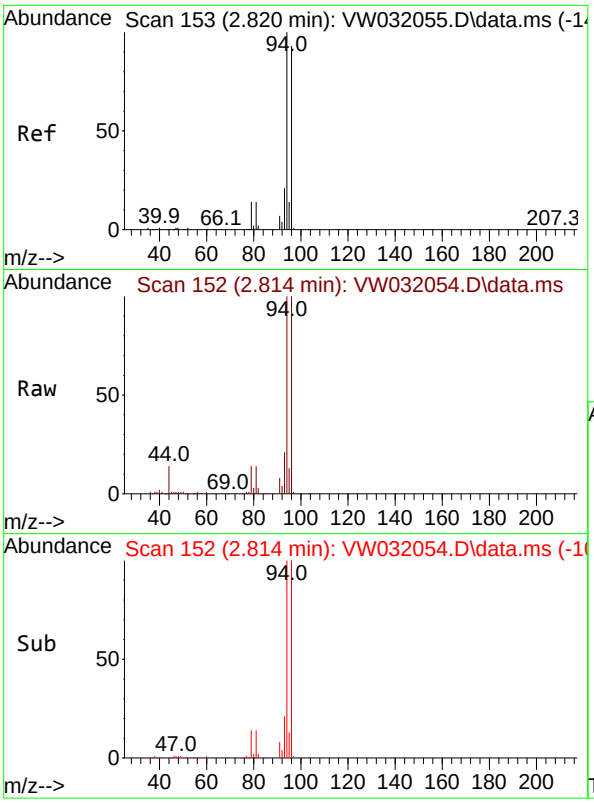


#4
Vinyl Chloride
Concen: 22.162 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 57293

Ion	Ratio	Lower	Upper
62	100		
64	29.6	27.8	41.6

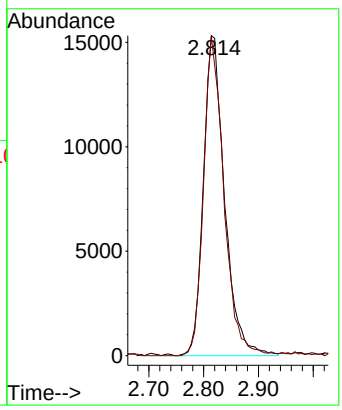




#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 94 Resp: 4100

Ion	Ratio	Lower	Upper
94	100		
96	99.7	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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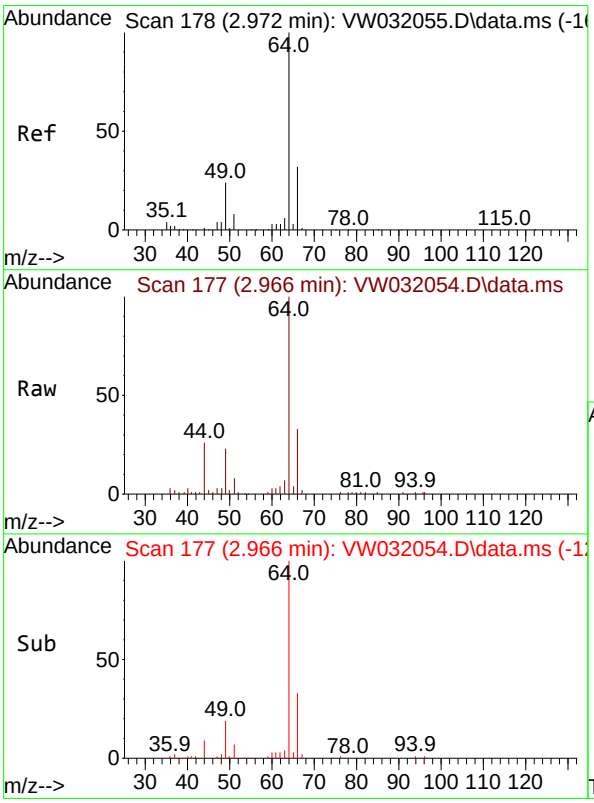
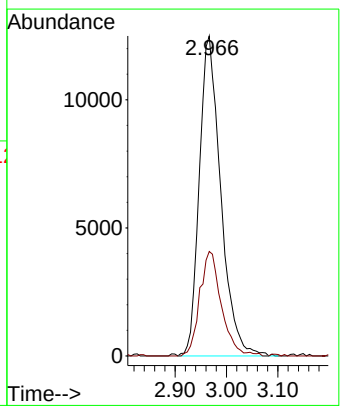
Supervised By :Semsettin Yesilyurt 08/12/2025

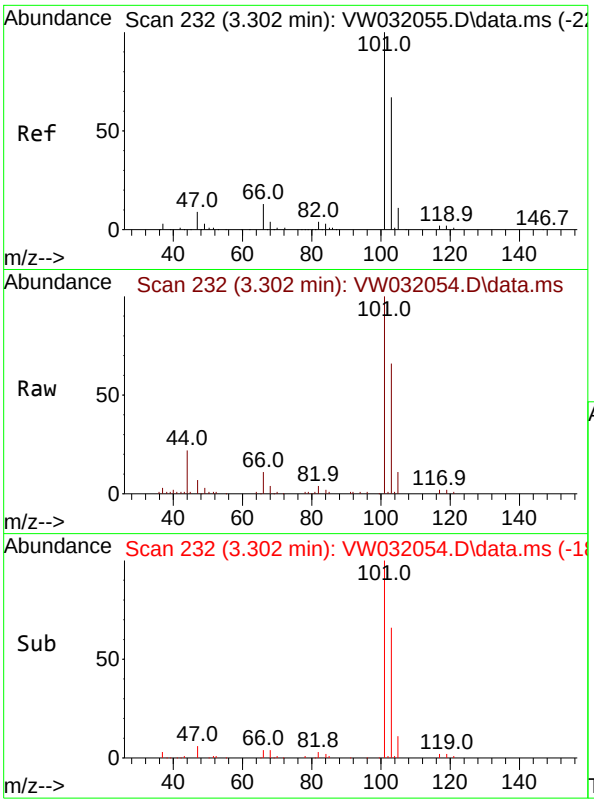


#6
Chloroethane
Concen: 21.173 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 64 Resp: 36220

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0

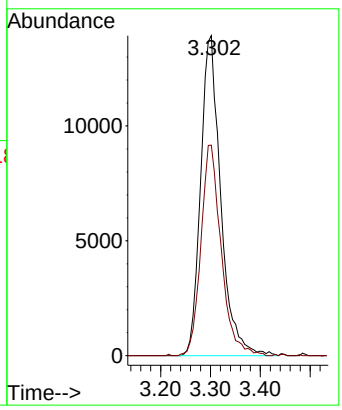




#7
Trichlorofluoromethane
Concen: 18.821 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:101 Resp: 3897

Ion	Ratio	Lower	Upper
101	100		
103	65.8	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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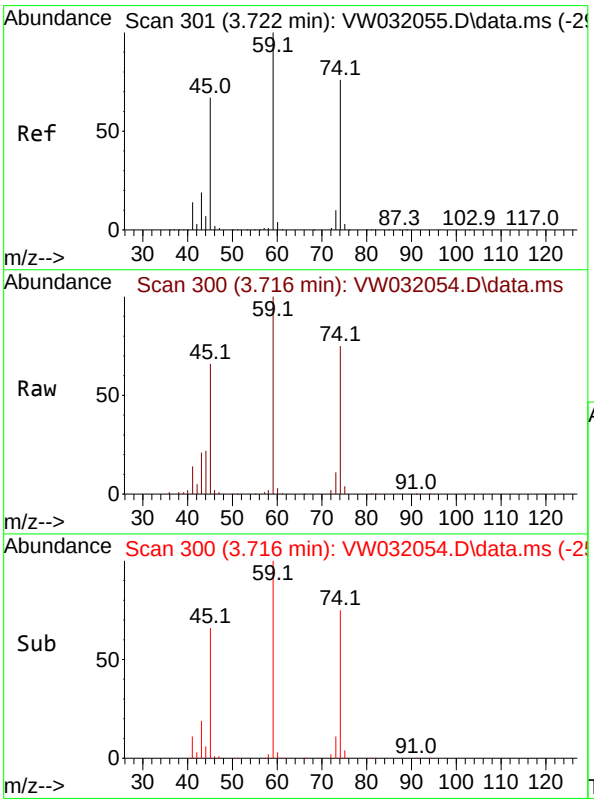
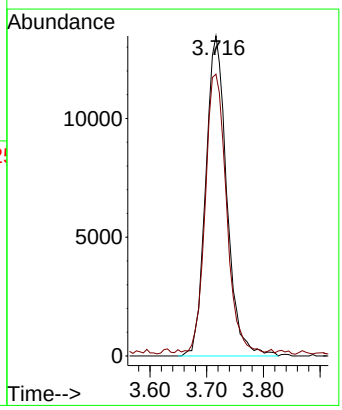
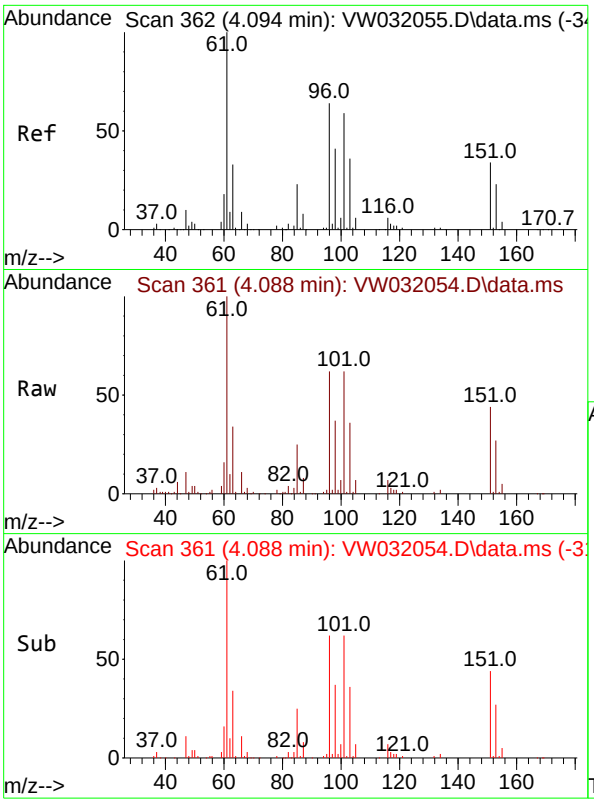


#8
Diethyl Ether
Concen: 20.489 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 74 Resp: 34764

Ion	Ratio	Lower	Upper
74	100		
45	86.6	45.4	136.2

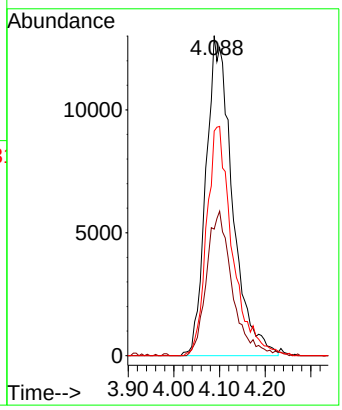




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.351 ug/l
RT: 4.088 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:101 Resp: 5216

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.9	52.3
151	70.0	56.2	84.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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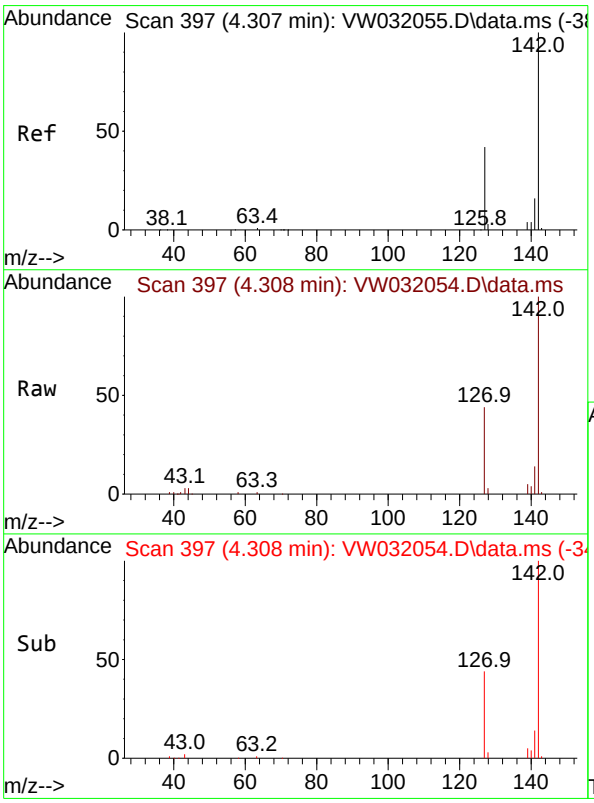
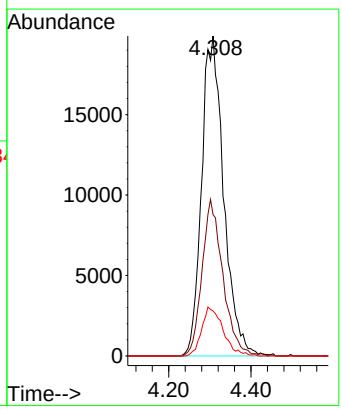
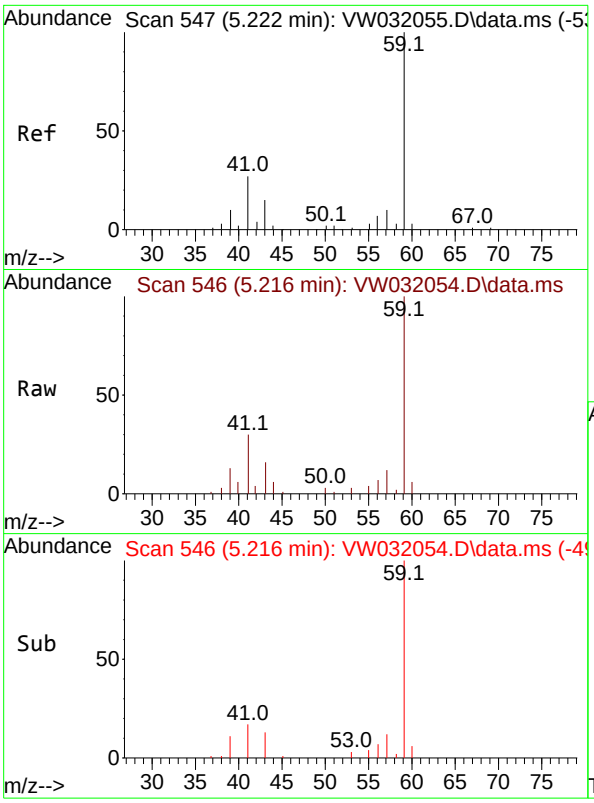


#10
Methyl Iodide
Concen: 21.419 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:142 Resp: 74197

Ion	Ratio	Lower	Upper
142	100		
127	46.1	36.6	55.0
141	14.8	12.1	18.1





#11
Tert butyl alcohol
Concen: 89.237 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 59 Resp: 1853

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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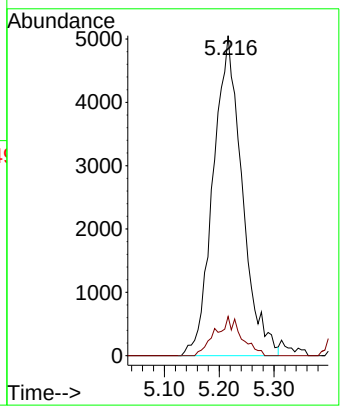
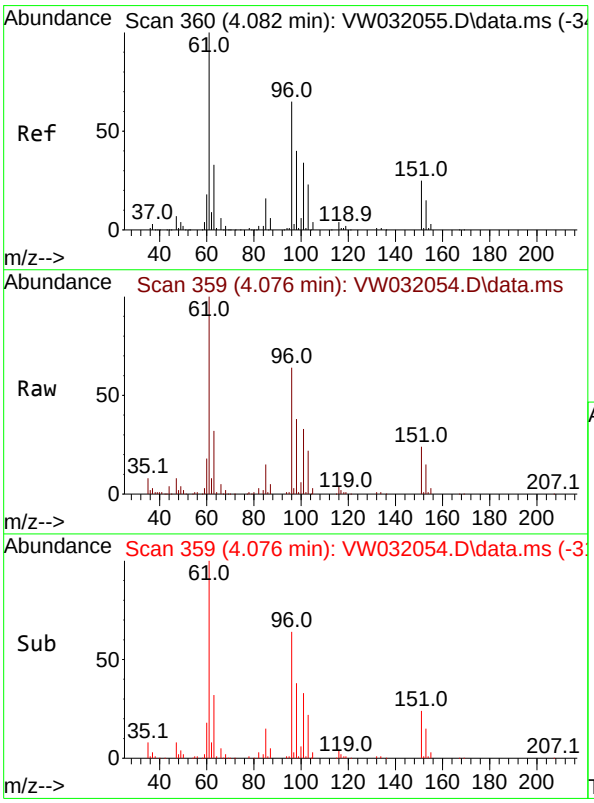
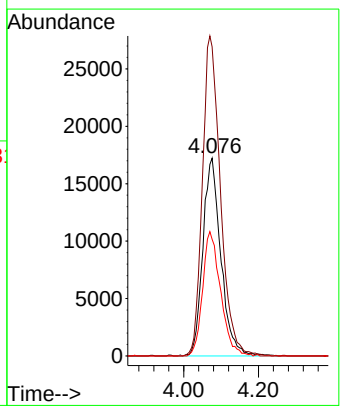


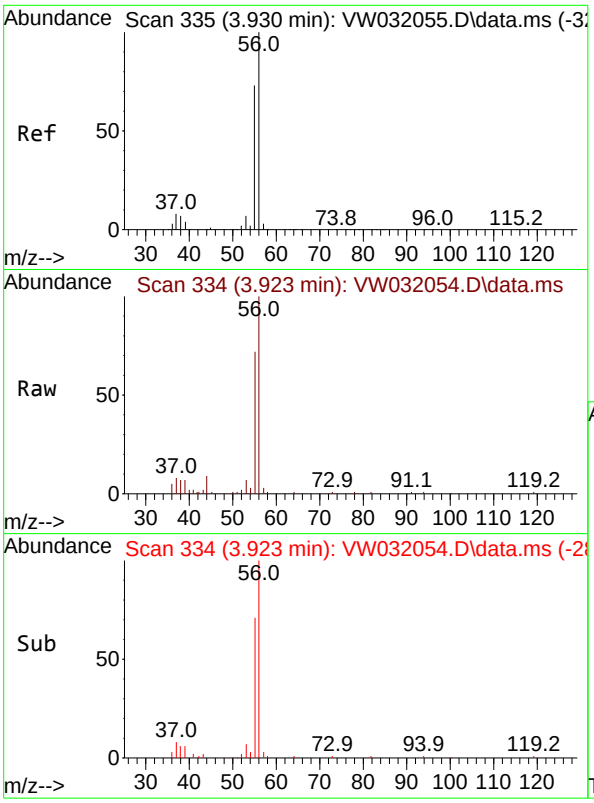


#12
1,1-Dichloroethene
Concen: 21.419 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 57624

Ion	Ratio	Lower	Upper
96	100		
61	156.3	123.4	185.2
98	59.0	49.5	74.3

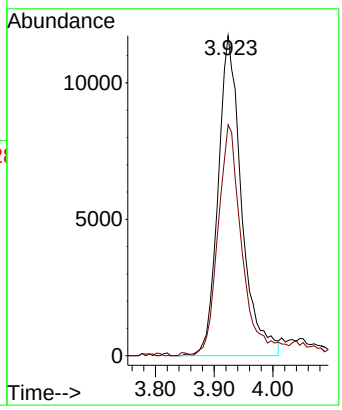




#13
Acrolein
Concen: 98.218 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 56 Resp: 3251

Ion	Ratio	Lower	Upper
56	100		
55	72.7	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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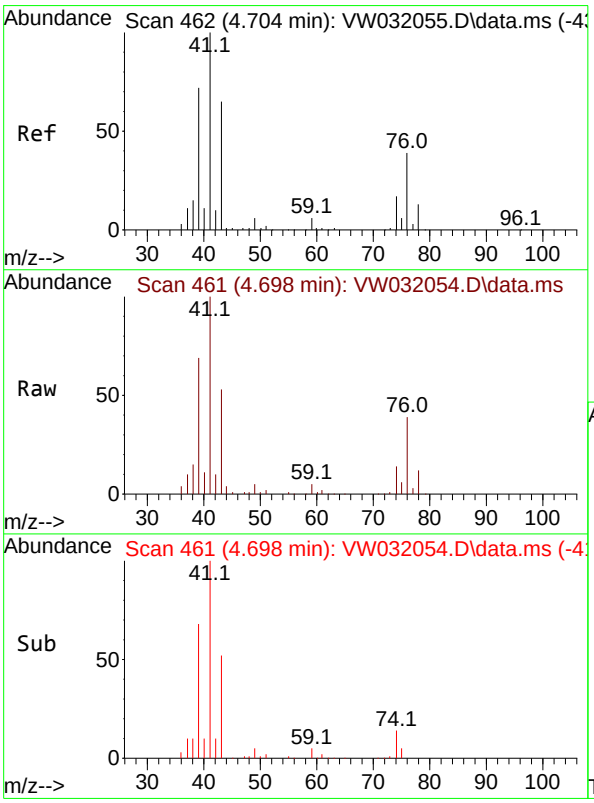
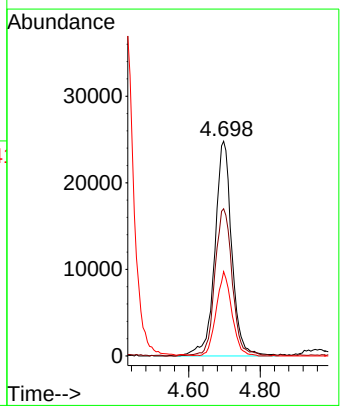
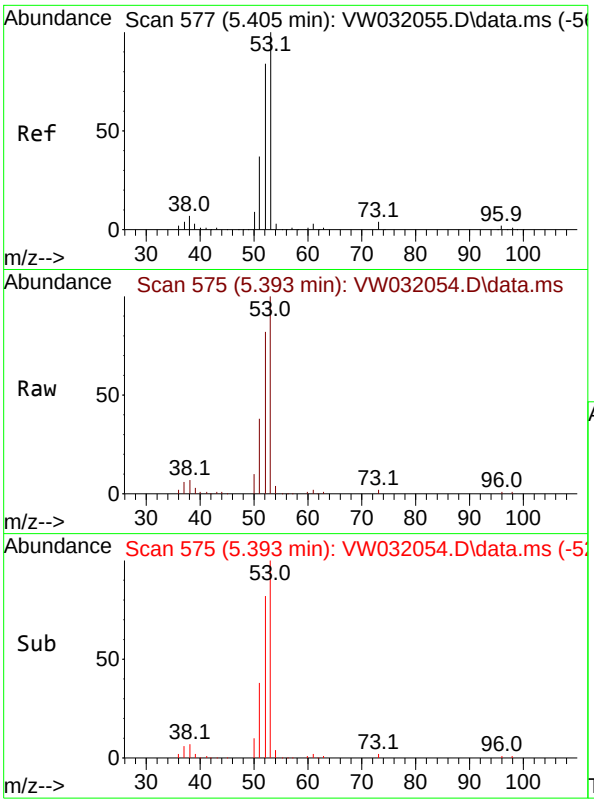


#14
Allyl chloride
Concen: 20.804 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 81458

Ion	Ratio	Lower	Upper
41	100		
39	69.3	54.5	81.7
76	36.3	29.3	43.9

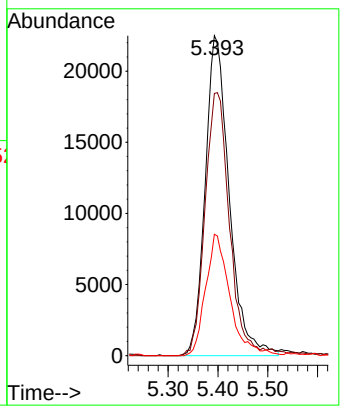




#15
Acrylonitrile
Concen: 93.190 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 53 Resp: 7531

Ion	Ratio	Lower	Upper
53	100		
52	84.2	66.1	99.1
51	38.4	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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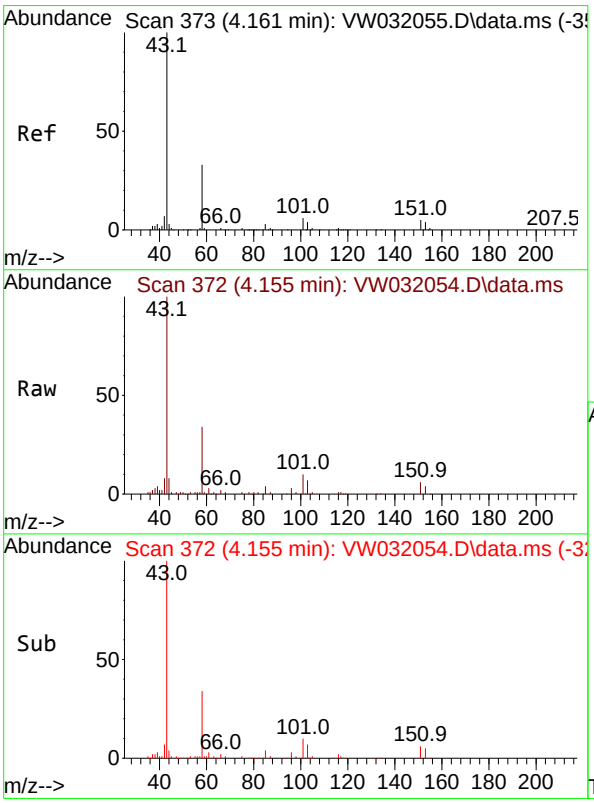
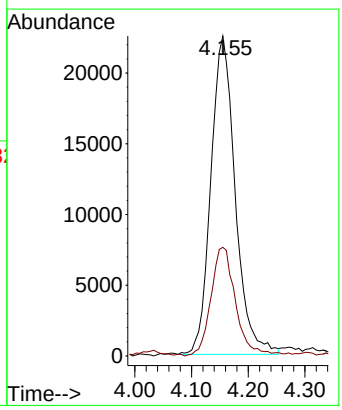
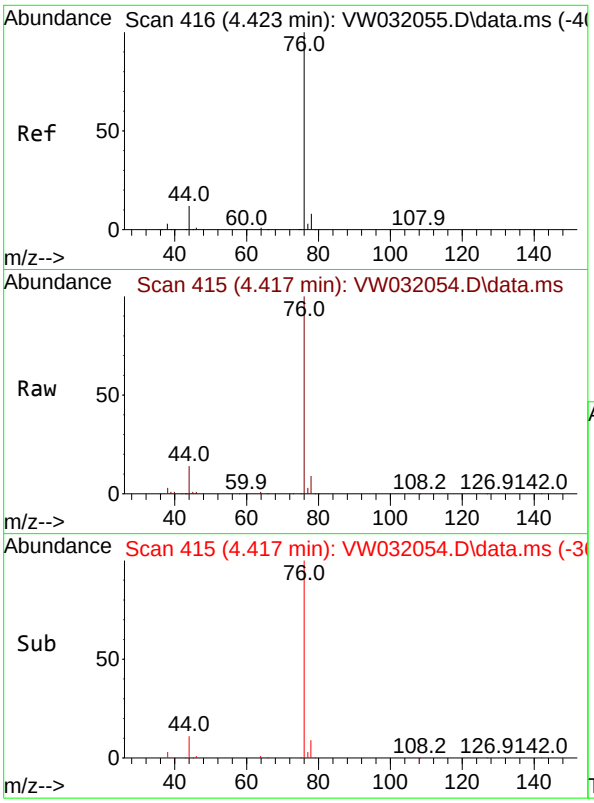


#16
Acetone
Concen: 90.379 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 67134

Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.6	39.8

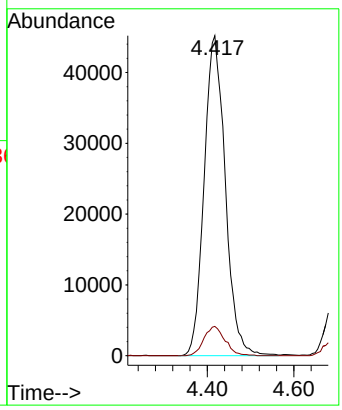




#17
Carbon Disulfide
Concen: 21.222 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 76 Resp: 15324

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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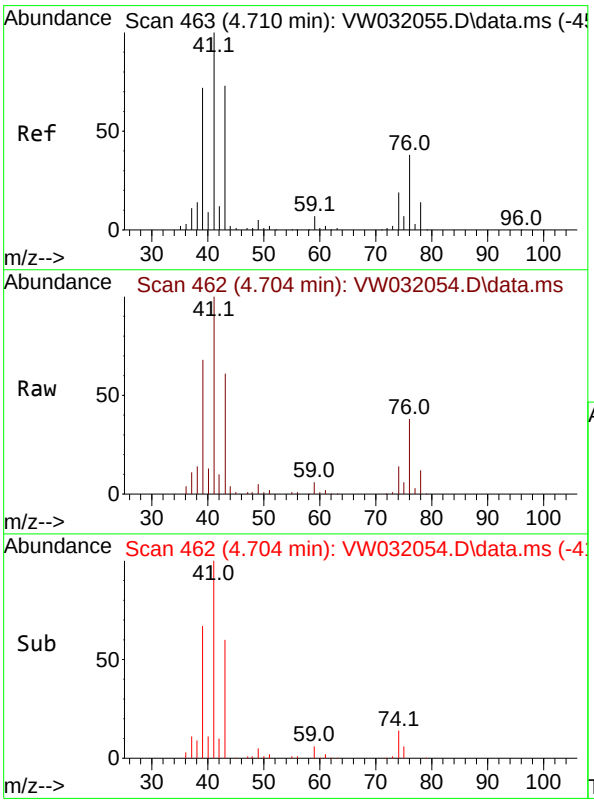
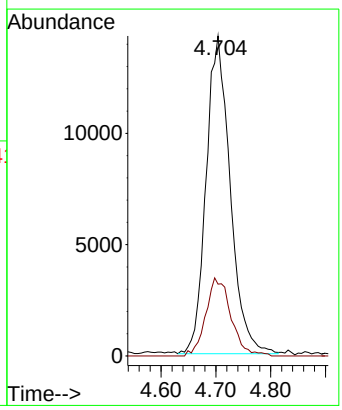
Supervised By :Semsettin Yesilyurt 08/12/2025

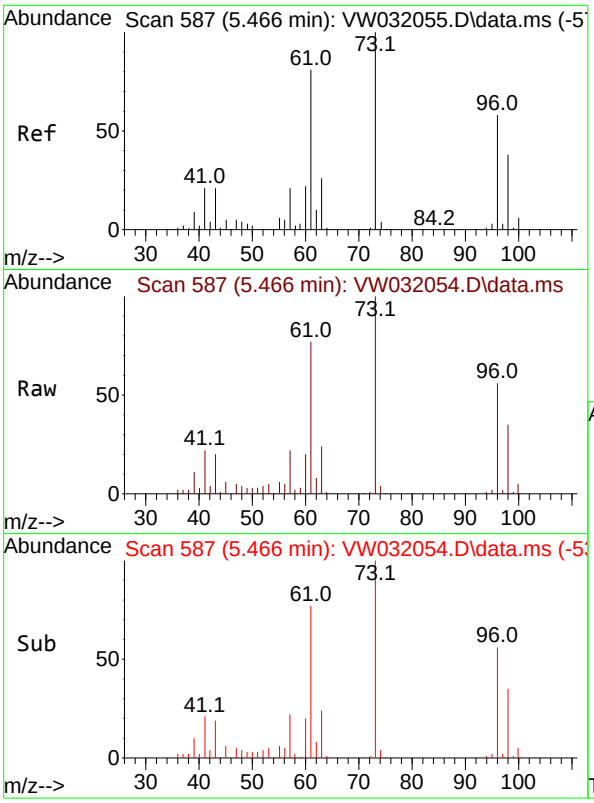


#18
Methyl Acetate
Concen: 18.522 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 43536

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0





#19
Methyl tert-butyl Ether
Concen: 20.306 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 73 Resp: 9625

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.2	25.8

Instrument :
MSVOA_W
ClientSampleId :
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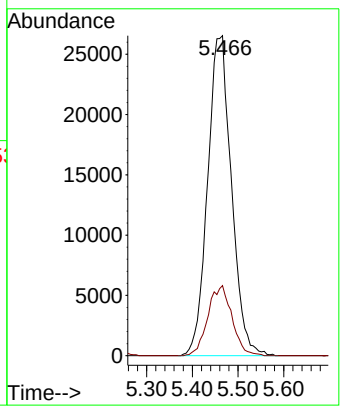
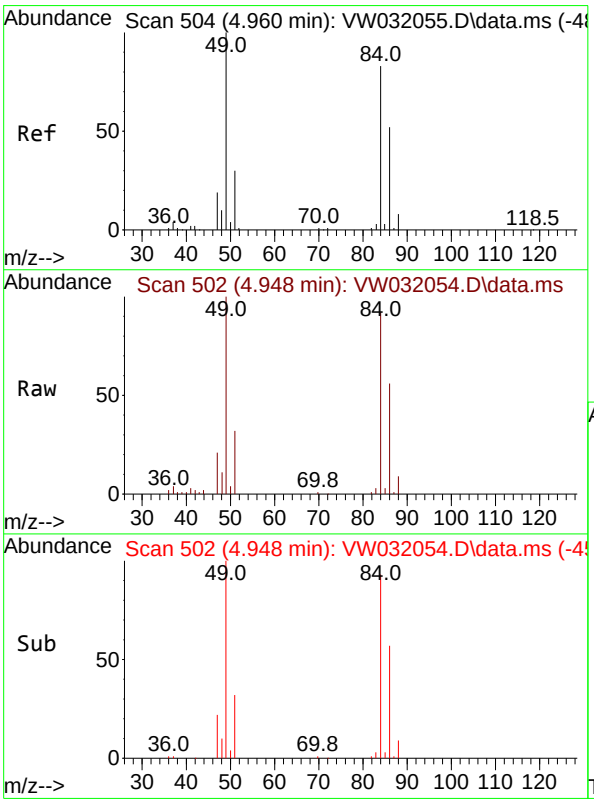
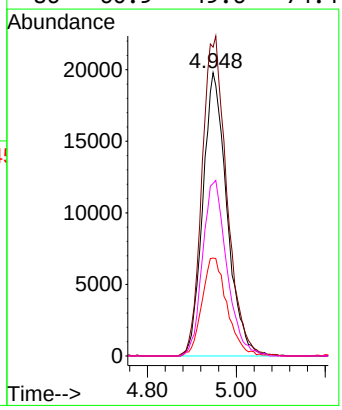


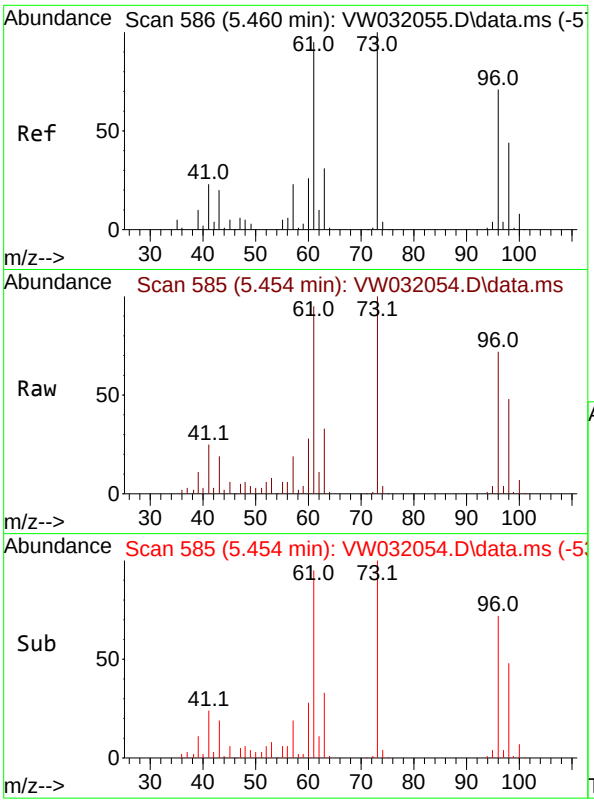


#20
Methylene Chloride
Concen: 21.706 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 84 Resp: 74547

Ion	Ratio	Lower	Upper
84	100		
49	109.1	95.9	143.9
51	34.6	28.6	43.0
86	60.9	49.6	74.4

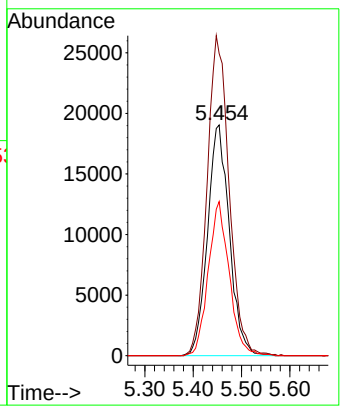




#21
trans-1,2-Dichloroethene
Concen: 20.917 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 5971

Ion	Ratio	Lower	Upper
96	100		
61	131.0	106.8	160.2
98	66.8	49.6	74.4



Instrument :
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ClientSampleId :
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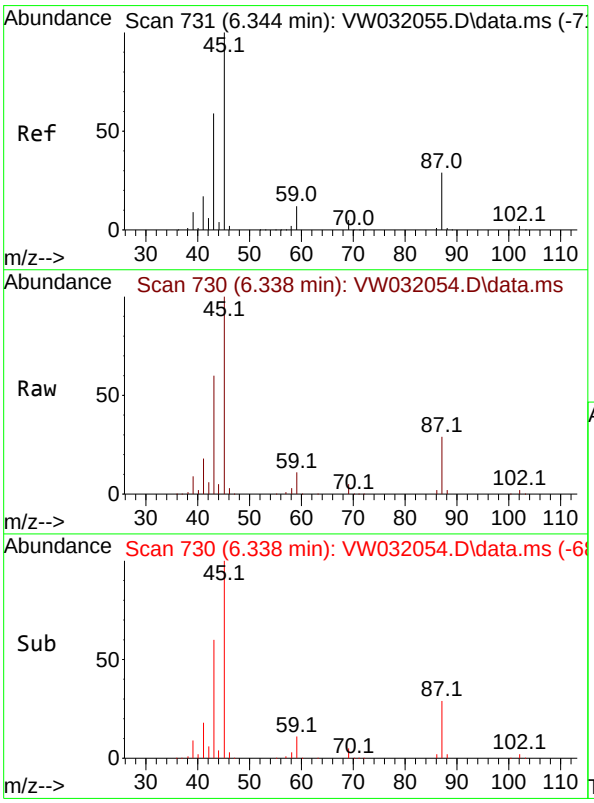
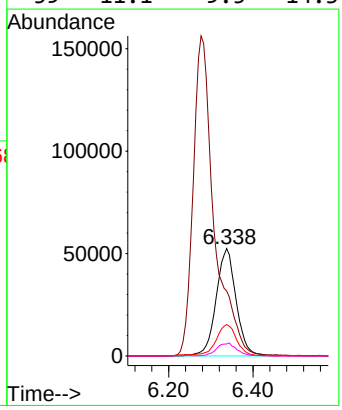
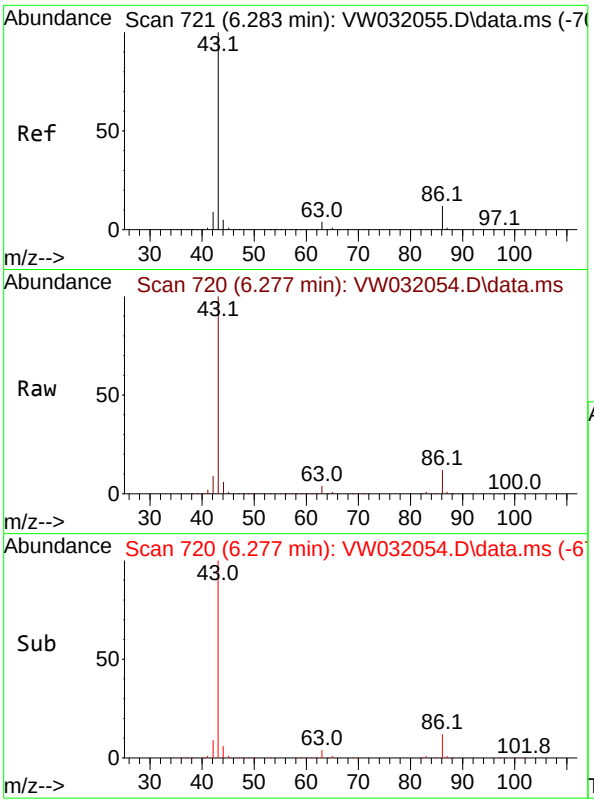


#22
Diisopropyl ether
Concen: 20.846 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 45 Resp: 172071

Ion	Ratio	Lower	Upper
45	100		
43	59.6	47.0	70.4
87	29.2	23.8	35.8
59	11.1	9.5	14.3





#23
Vinyl Acetate
Concen: 99.617 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 53986

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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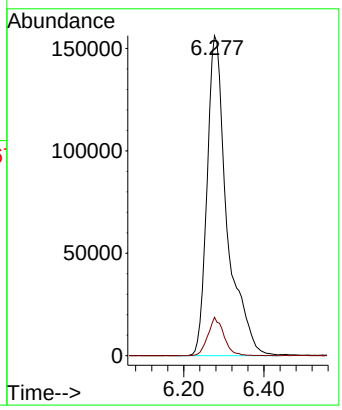
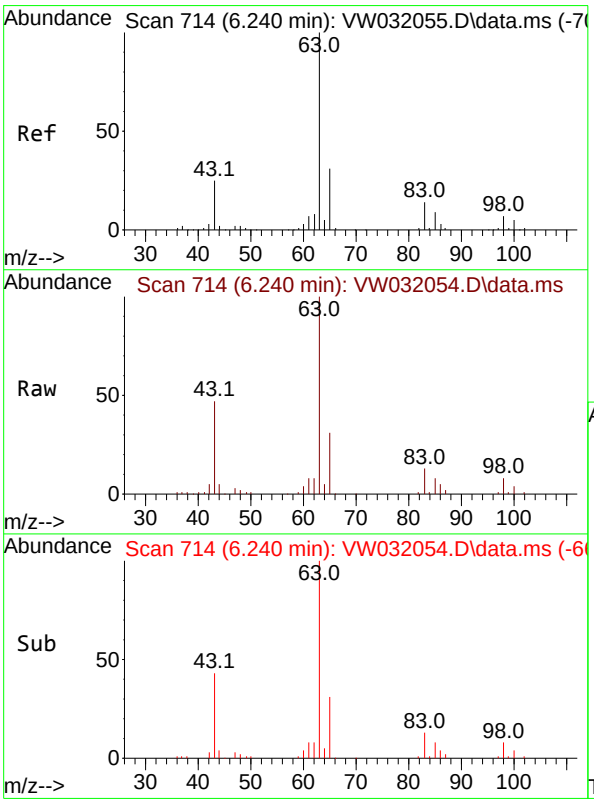
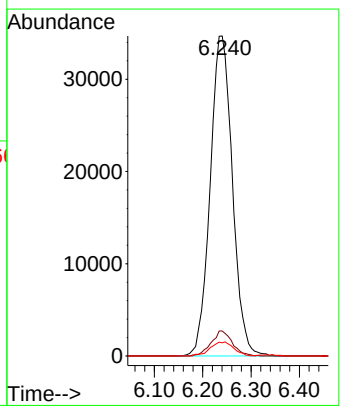


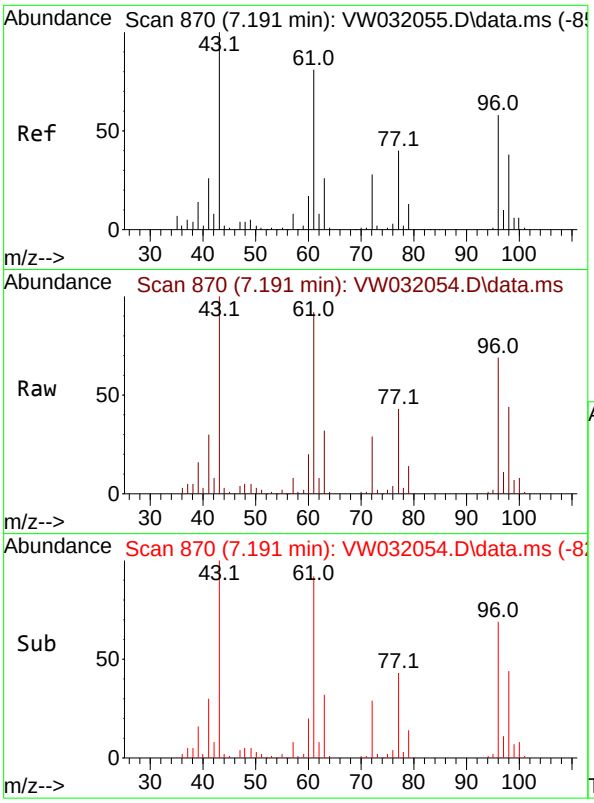


#24
1,1-Dichloroethane
Concen: 21.016 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 110835

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.7	11.1
100	4.1	2.5	7.4

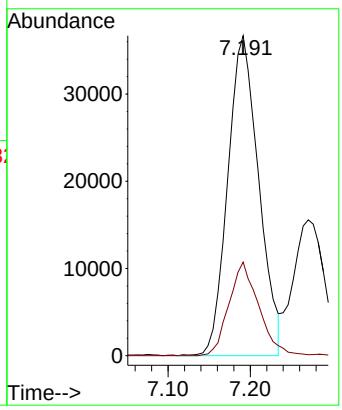




#25
2-Butanone
Concen: 91.114 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 9619

Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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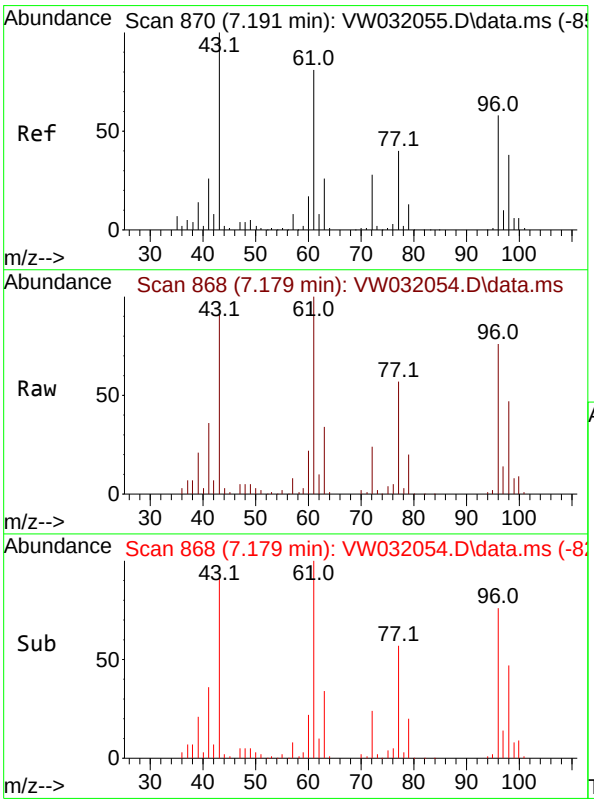
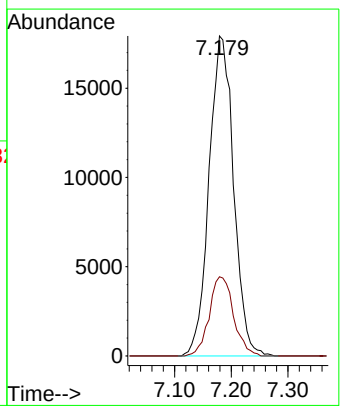
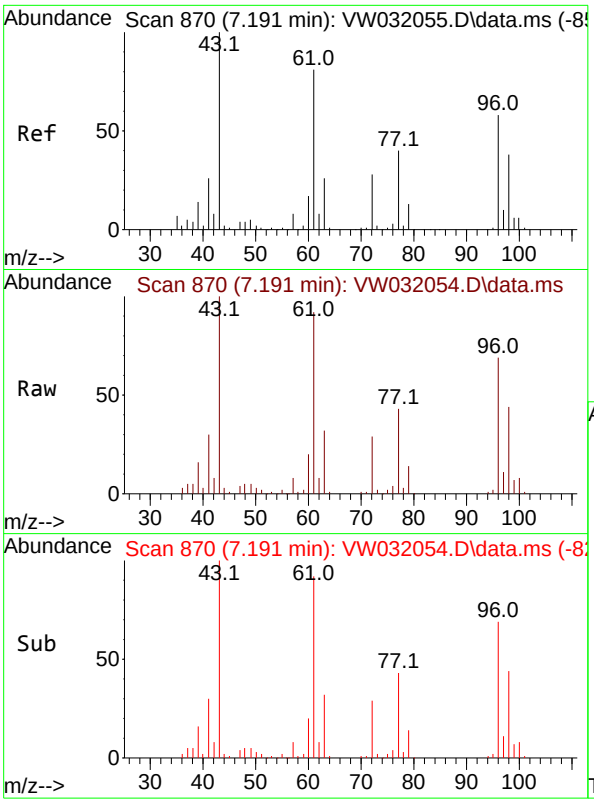


#26
2,2-Dichloropropane
Concen: 20.327 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 77 Resp: 53780

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9

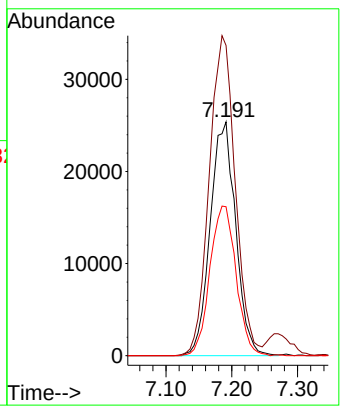




#27
cis-1,2-Dichloroethene
Concen: 20.540 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 6854

Ion	Ratio	Lower	Upper
96	100		
61	139.8	0.0	281.2
98	65.7	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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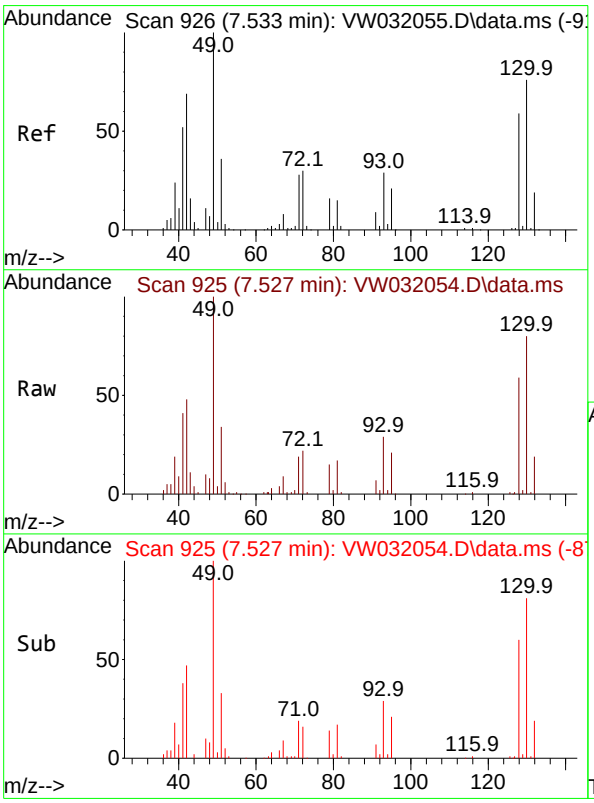
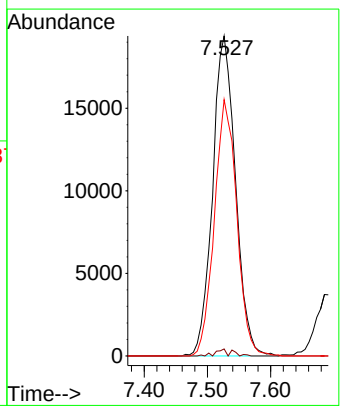
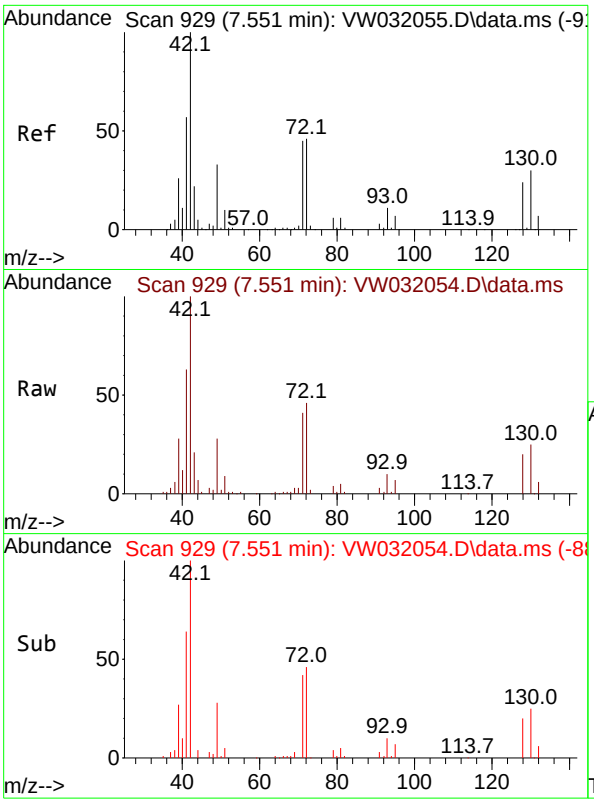


#28
Bromochloromethane
Concen: 20.298 ug/l
RT: 7.527 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 49 Resp: 48715

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	78.4	61.9	92.9

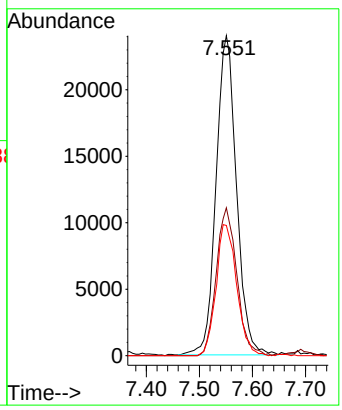




#29
Tetrahydrofuran
Concen: 92.379 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 42 Resp: 6431

Ion	Ratio	Lower	Upper
42	100		
72	46.7	36.6	55.0
71	41.5	34.7	52.1



Instrument :
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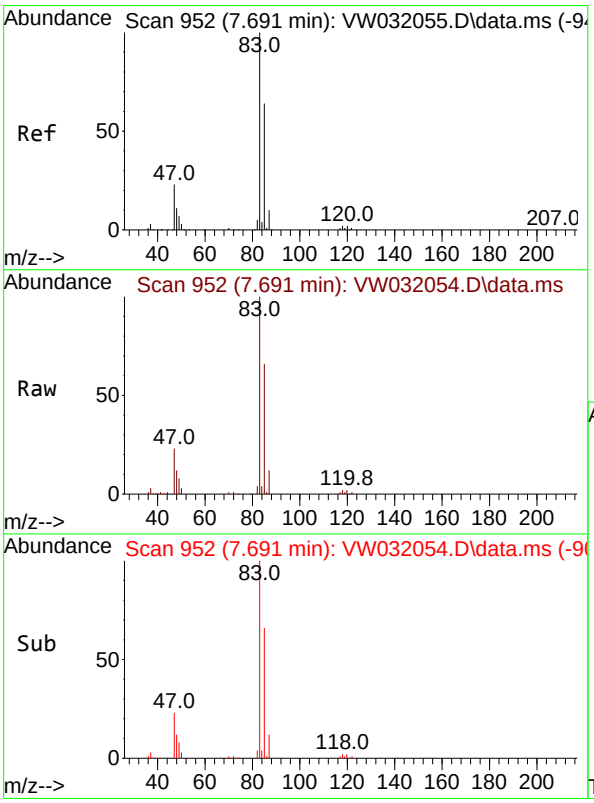
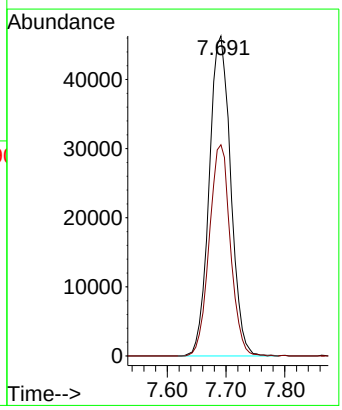
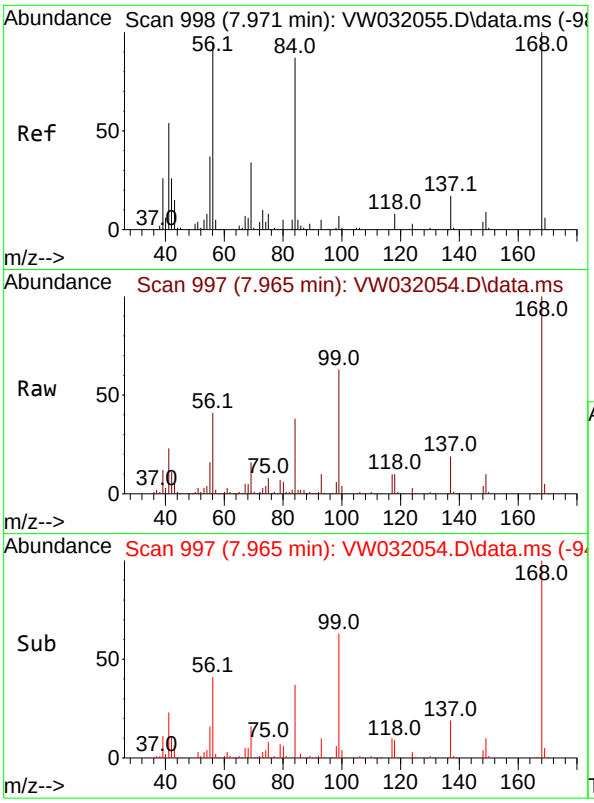


#30
Chloroform
Concen: 21.011 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 117474

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.4

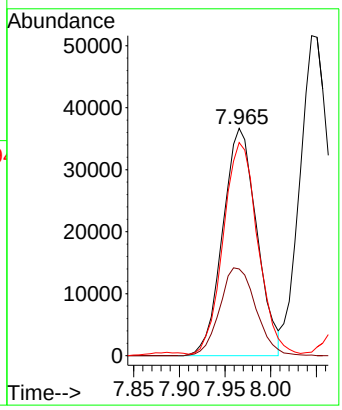




#31
Cyclohexane
Concen: 20.833 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 56 Resp: 9525

Ion	Ratio	Lower	Upper
56	100		
69	38.2	28.6	42.8
84	92.4	73.0	109.4



Instrument :
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ClientSampleId :
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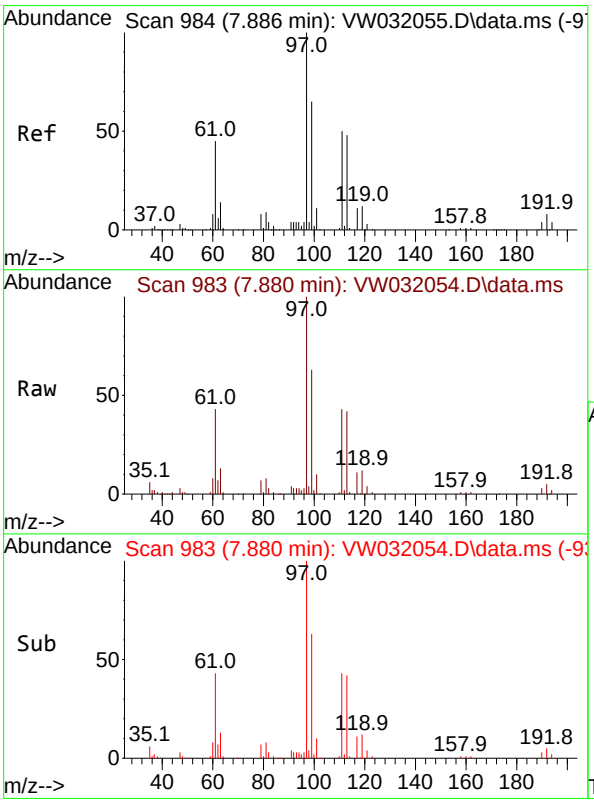
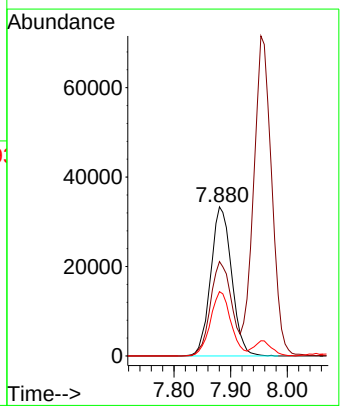
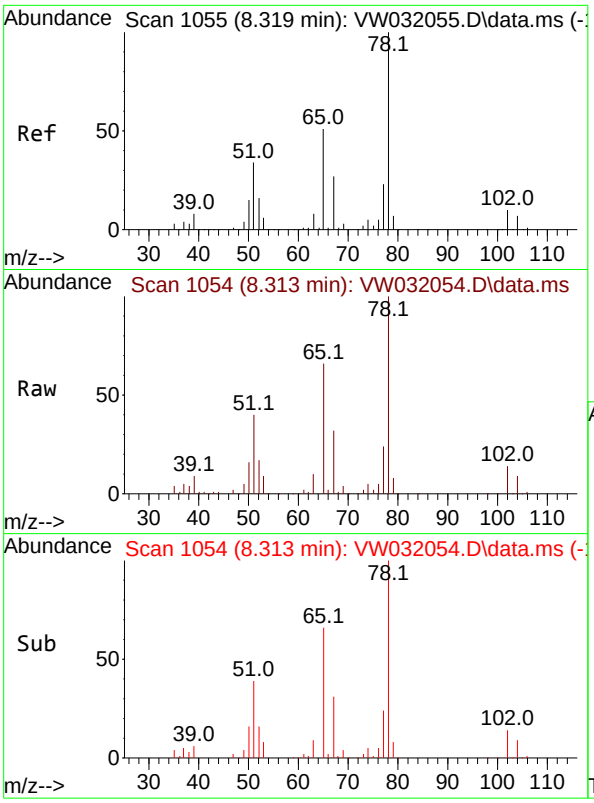


#32
1,1,1-Trichloroethane
Concen: 21.078 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 97 Resp: 85600

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.8	77.8
61	42.4	35.9	53.9

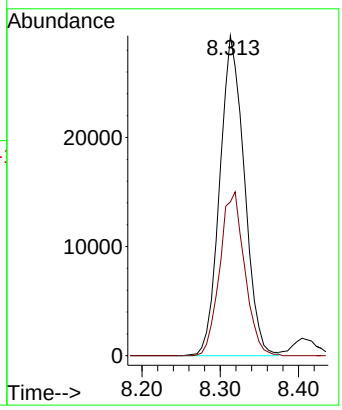




#33
1,2-Dichloroethane-d4
Concen: 19.904 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 65 Resp: 6385

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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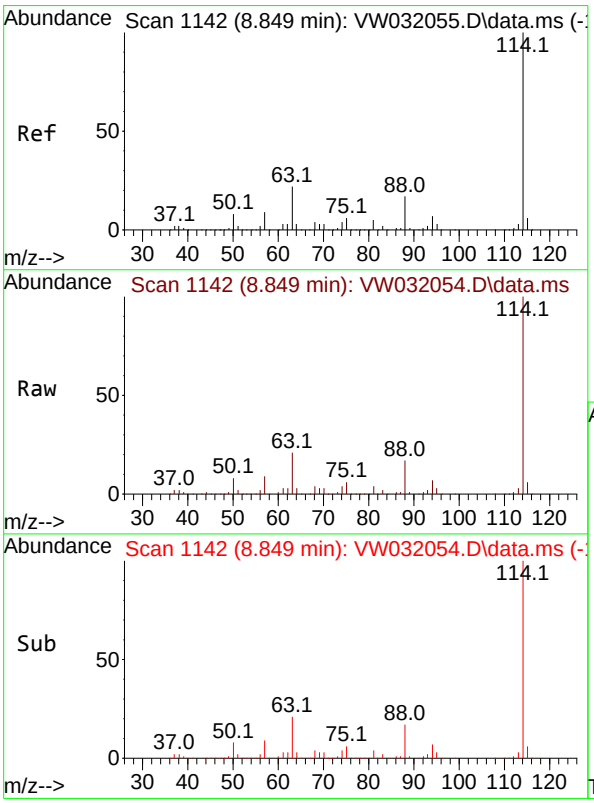
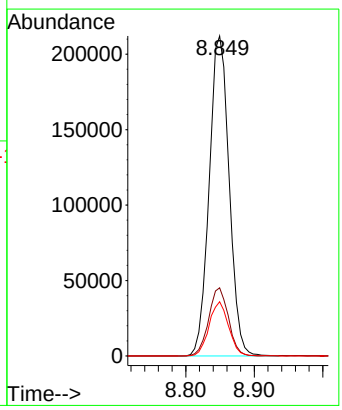
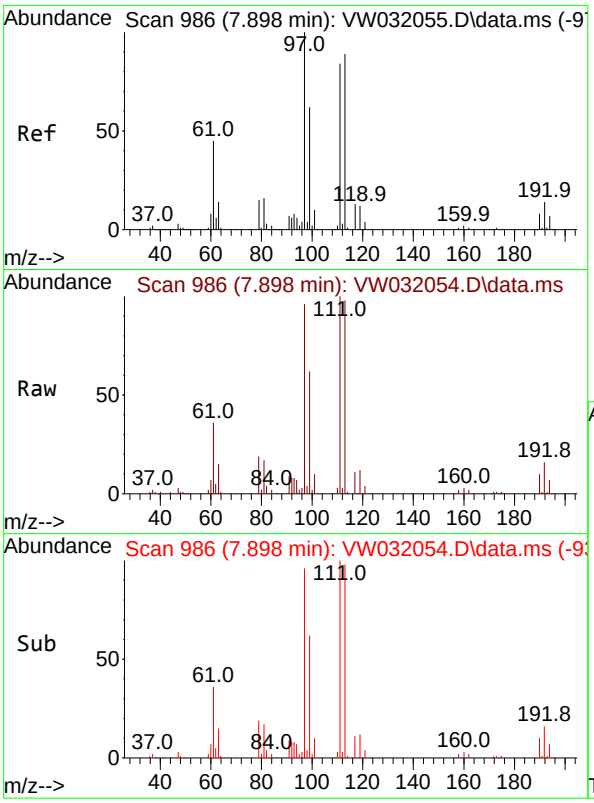


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:114 Resp: 428395

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	16.9	0.0	33.8





#35
Dibromofluoromethane
Concen: 20.158 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 5578

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.1	120.1
192	16.3	13.1	19.7

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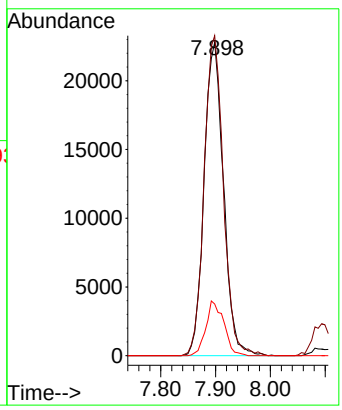
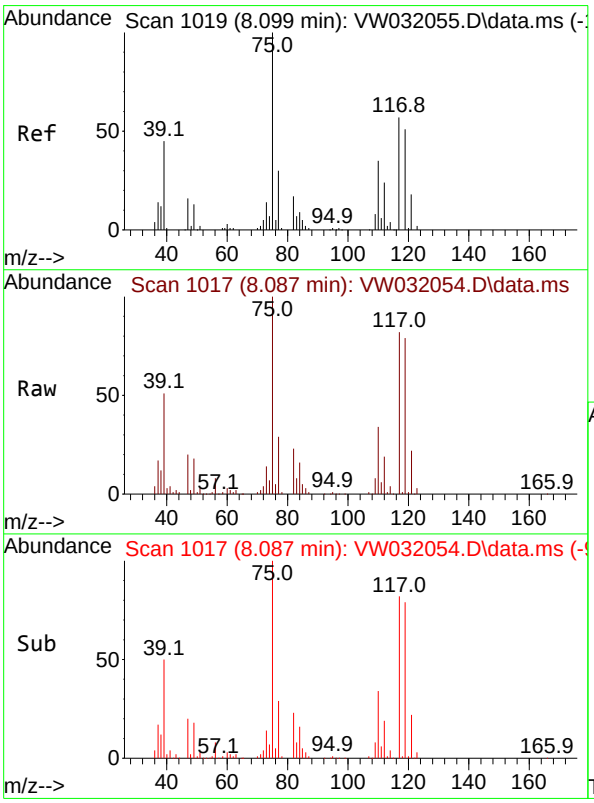
Supervised By :Semsettin Yesilyurt 08/12/2025

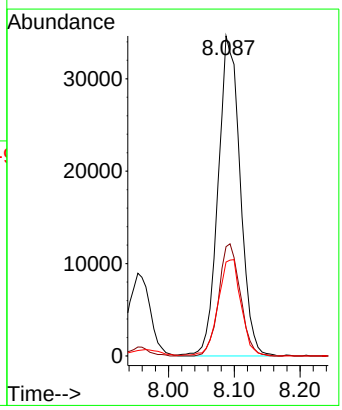


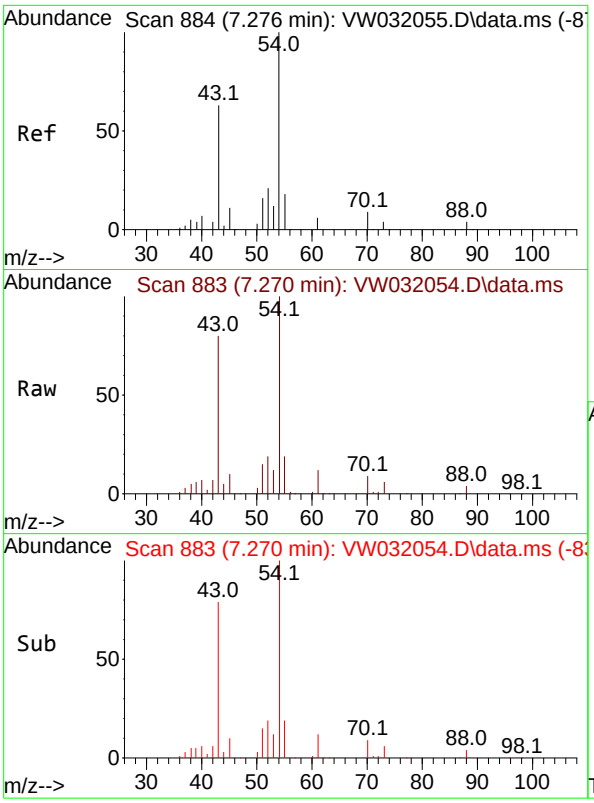


#36
1,1-Dichloropropene
Concen: 20.712 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 80811

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.4	52.2
77	31.4	24.7	37.1

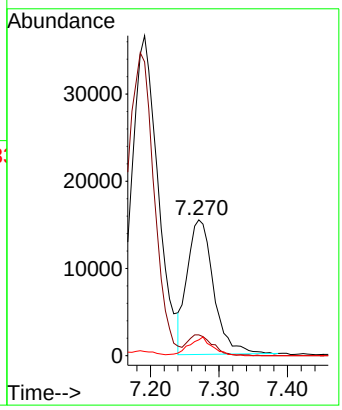




#37
Ethyl Acetate
Concen: 17.945 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 4123

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.8	17.6
70	12.3	9.4	14.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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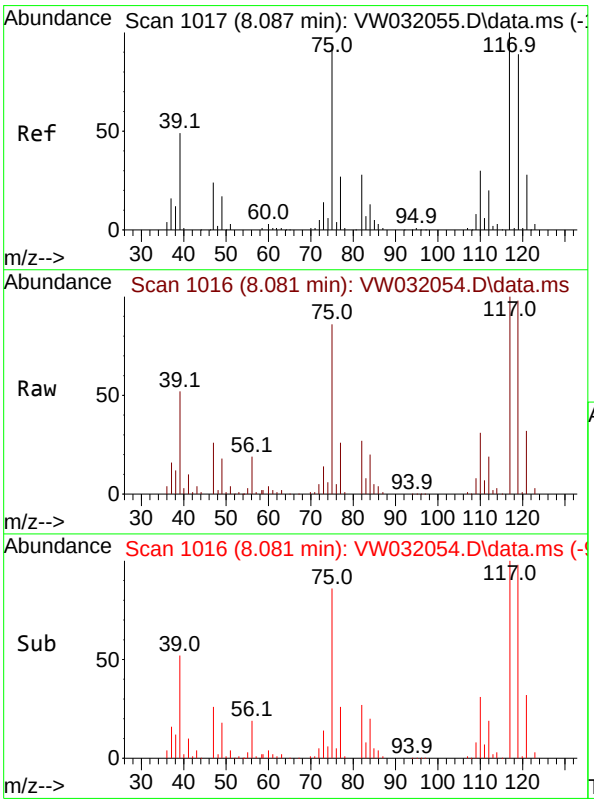
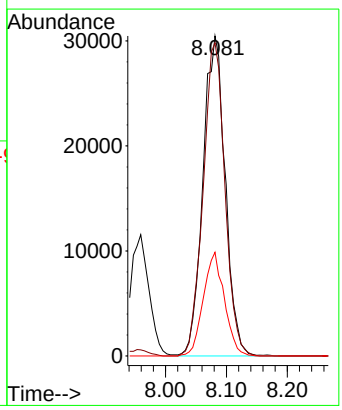
Supervised By :Semsettin Yesilyurt 08/12/2025

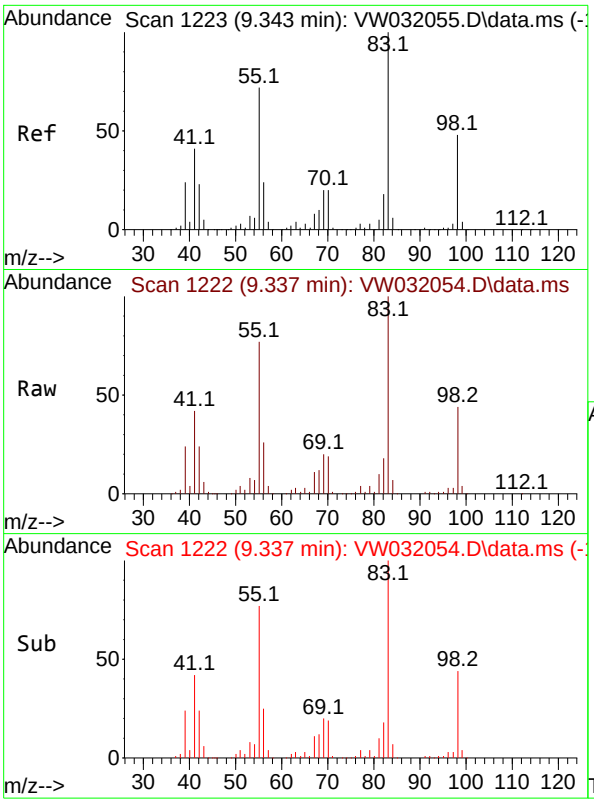


#38
Carbon Tetrachloride
Concen: 20.527 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 77289

Ion	Ratio	Lower	Upper
117	100		
119	97.8	71.4	107.2
121	32.4	22.3	33.5

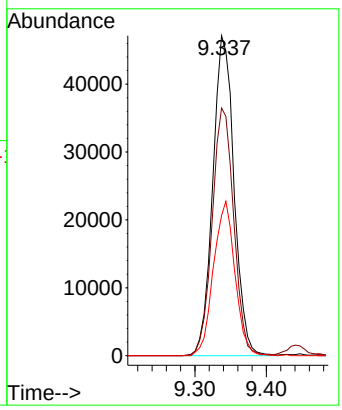




#39
Methylcyclohexane
Concen: 20.484 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 9741

Ion	Ratio	Lower	Upper
83	100		
55	77.4	57.9	86.9
98	43.8	38.3	57.5



Instrument :
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ClientSampleId :
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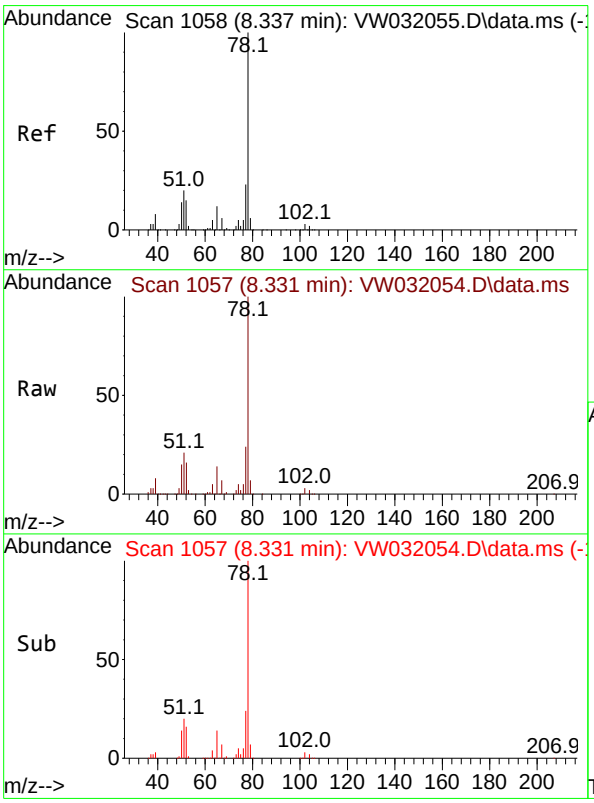
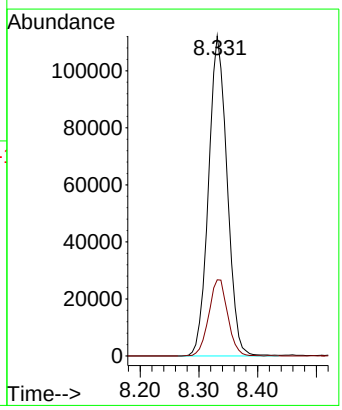
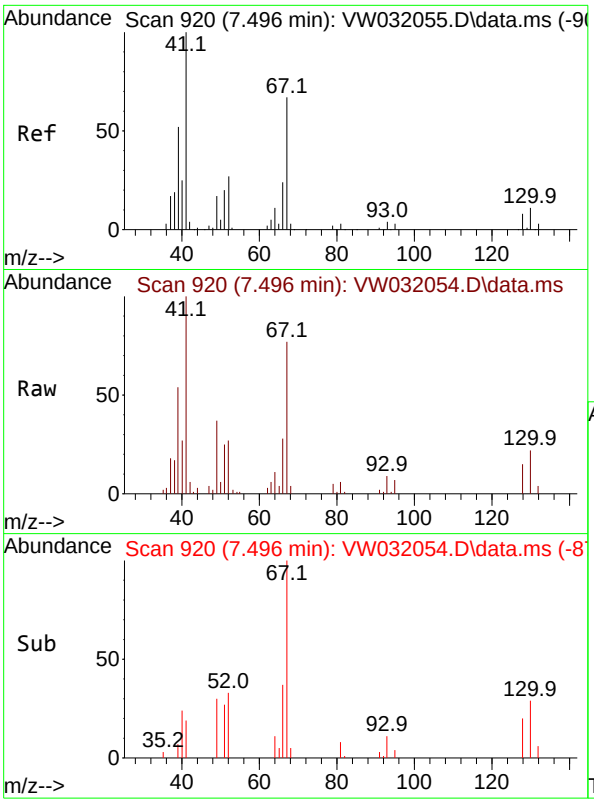


#40
Benzene
Concen: 20.333 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 78 Resp: 246590

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.4	27.6

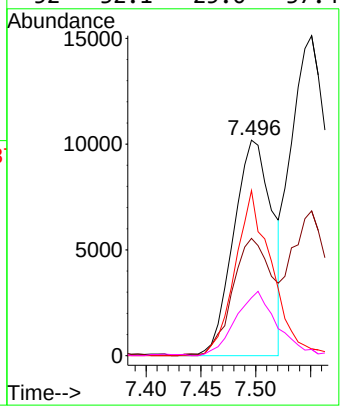




#41
Methacrylonitrile
Concen: 19.242 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 2507

Ion	Ratio	Lower	Upper
41	100		
39	55.4	42.6	63.8
67	73.2	61.0	91.4
52	32.1	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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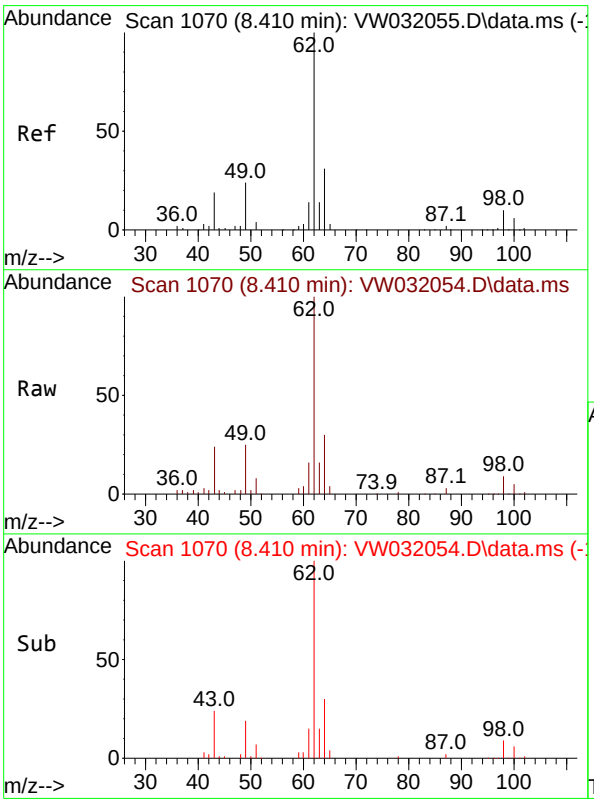
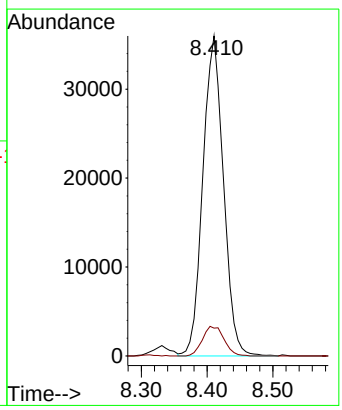
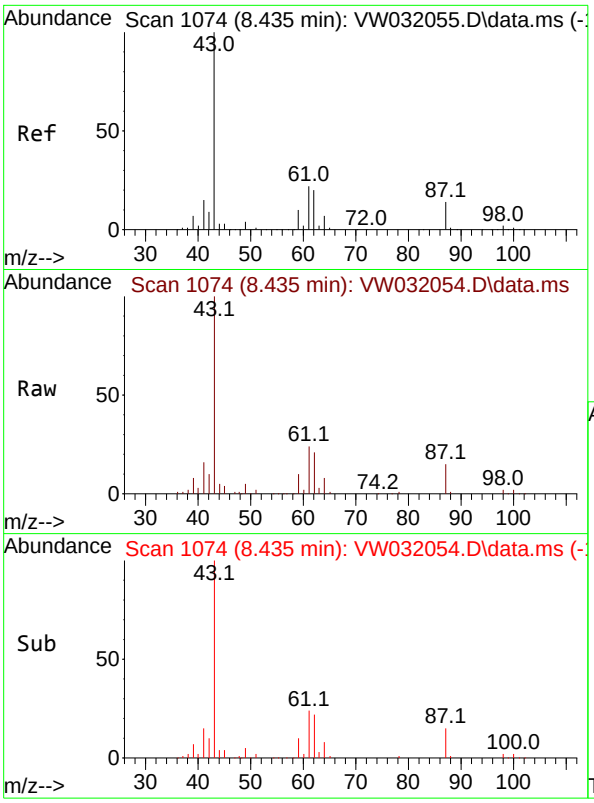


#42
1,2-Dichloroethane
Concen: 20.239 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 78543

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.8





#43
Isopropyl Acetate
Concen: 18.660 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 7888

Ion	Ratio	Lower	Upper
43	100		
61	31.3	23.8	35.8
87	14.1	11.7	17.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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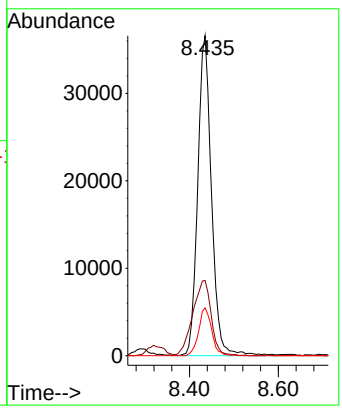
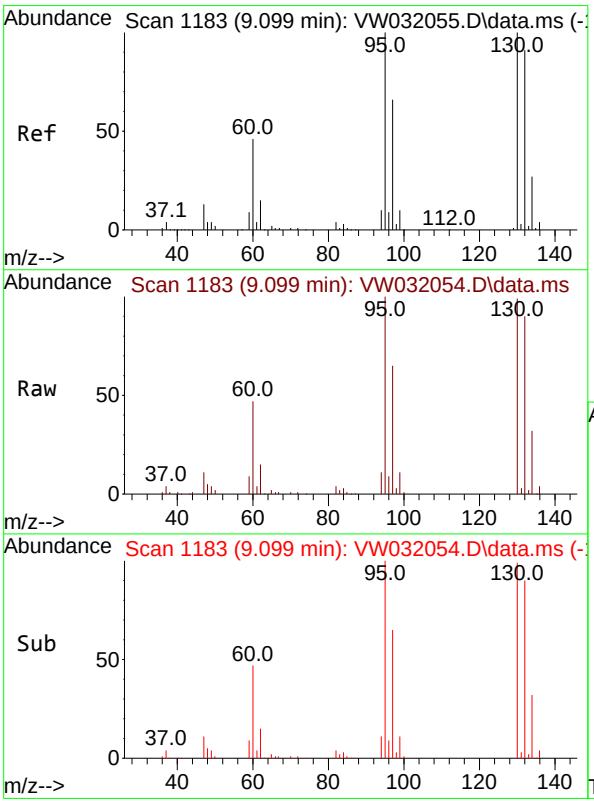
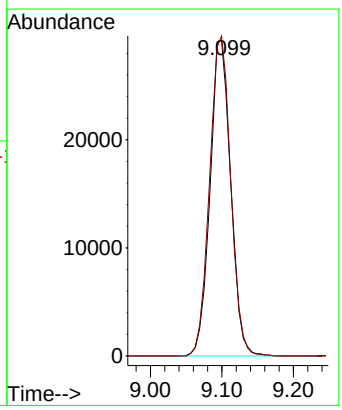


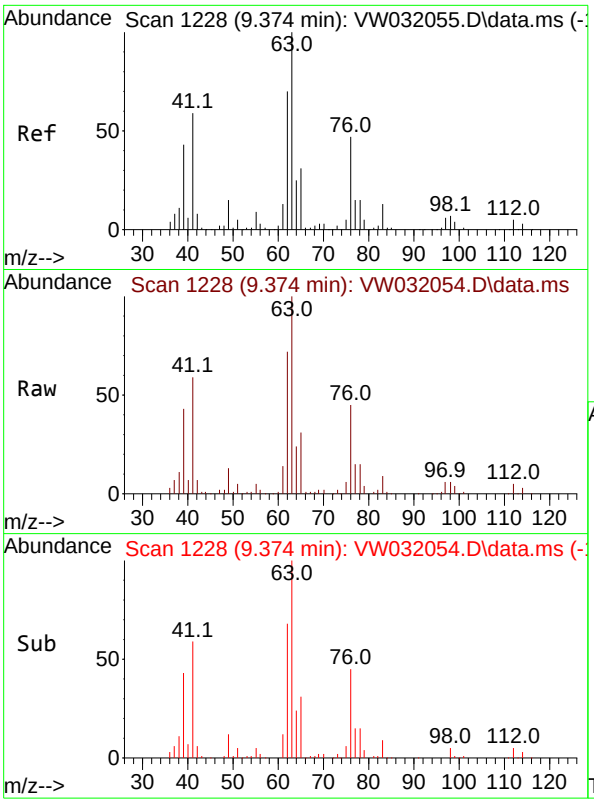


#44
Trichloroethene
Concen: 20.302 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:130 Resp: 58636

Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	200.6

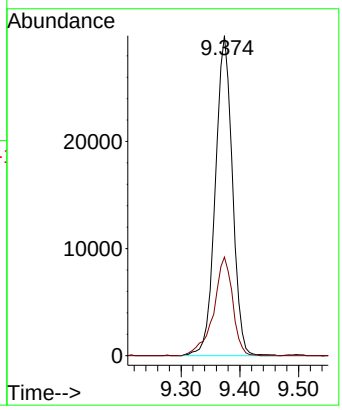




#45
1,2-Dichloropropane
Concen: 20.597 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 6034

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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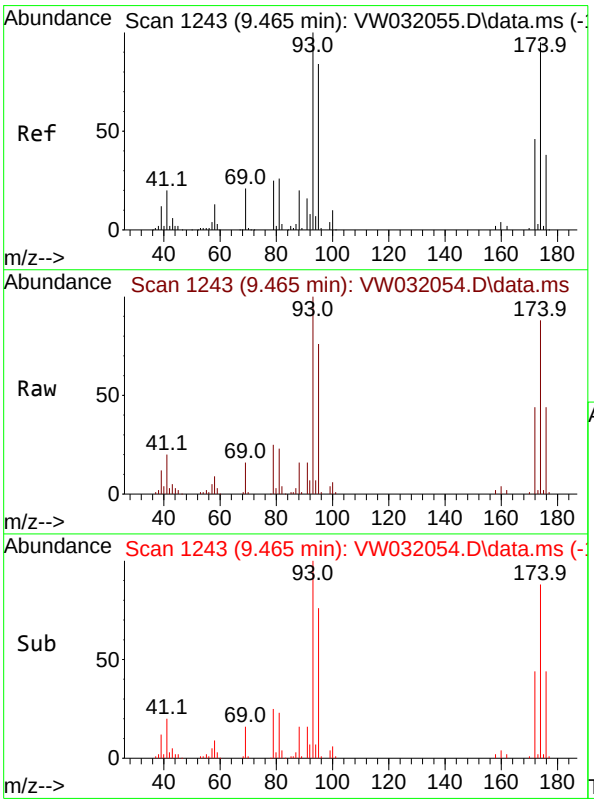
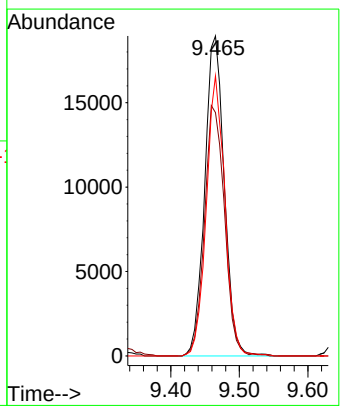
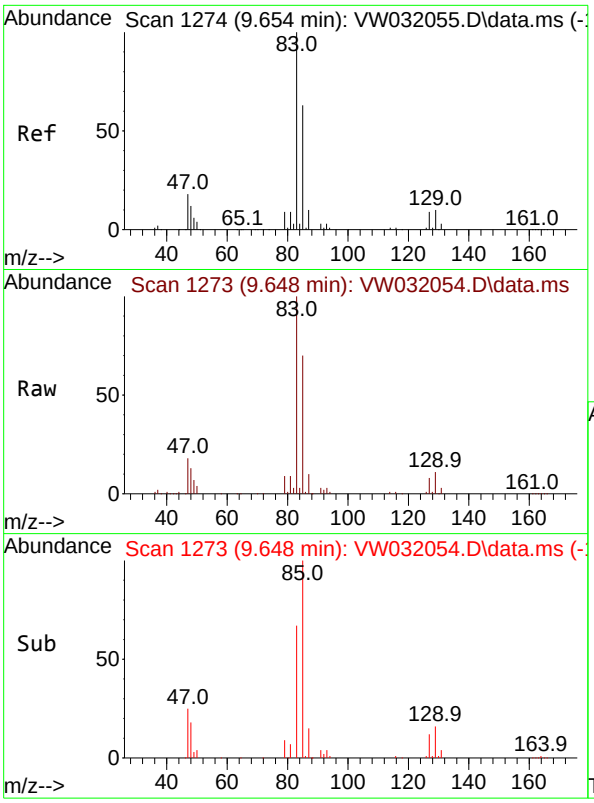


#46
Dibromomethane
Concen: 19.873 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 93 Resp: 37580

Ion	Ratio	Lower	Upper
93	100		
95	80.1	65.3	97.9
174	83.3	68.6	102.8

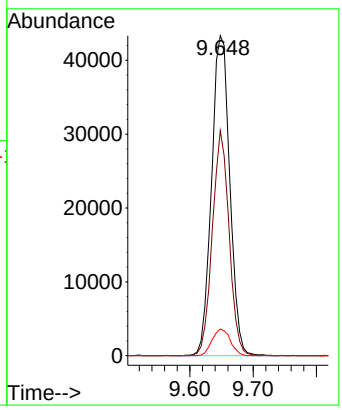




#47
Bromodichloromethane
Concen: 19.869 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 8657

Ion	Ratio	Lower	Upper
83	100		
85	70.4	50.6	75.8
127	8.3	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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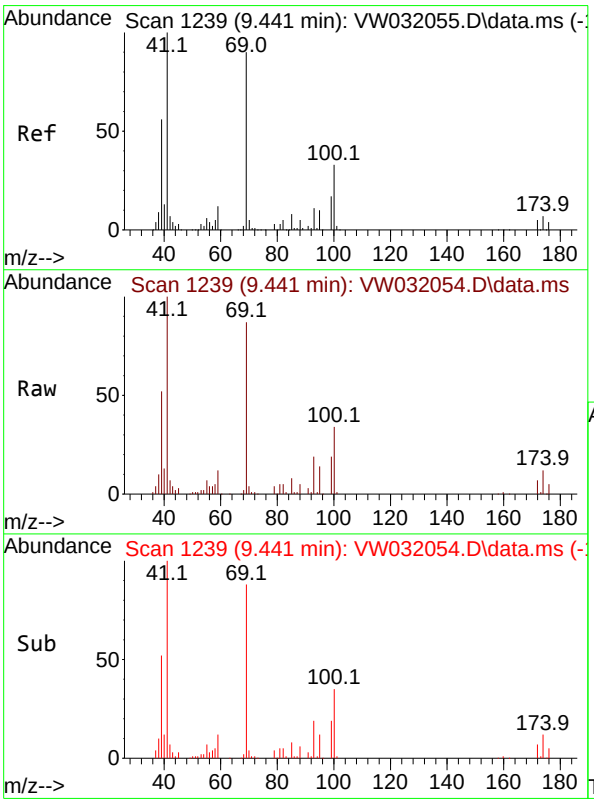
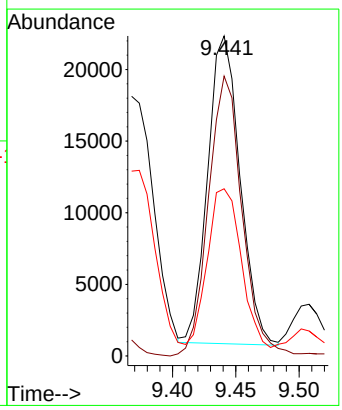
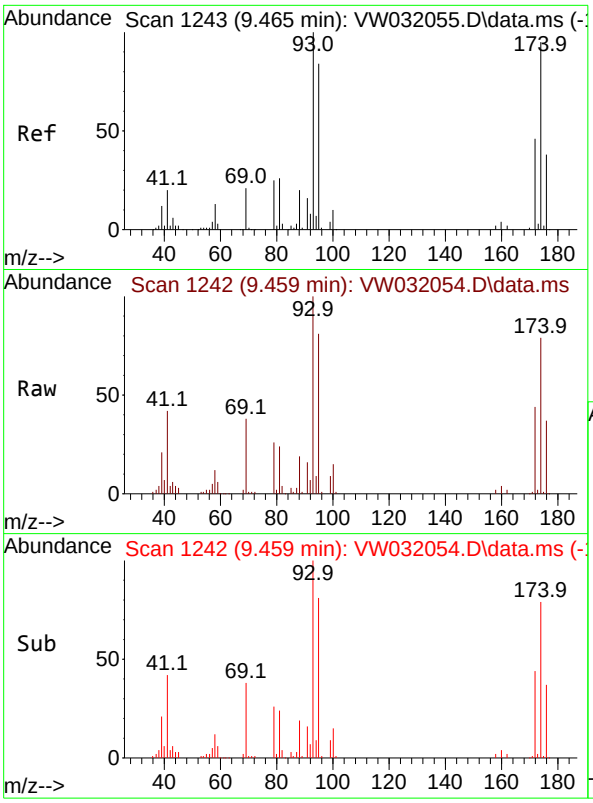


#48
Methyl methacrylate
Concen: 18.704 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 38175

Ion	Ratio	Lower	Upper
41	100		
69	94.6	73.0	109.6
39	53.7	45.0	67.4





#49
1,4-Dioxane
Concen: 364.998 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 88 Resp: 892

Ion	Ratio	Lower	Upper
88	100		
43	24.7	20.6	30.8
58	78.5	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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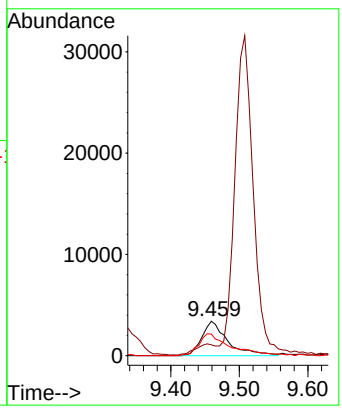
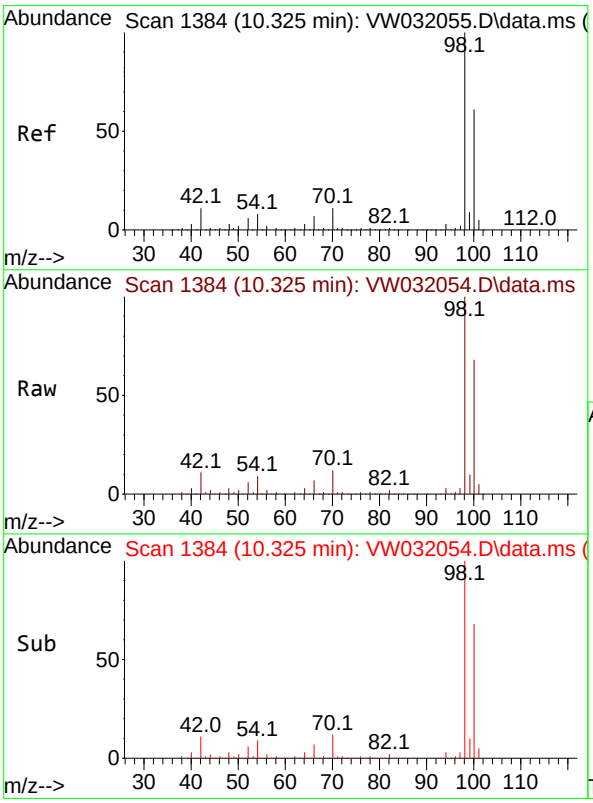
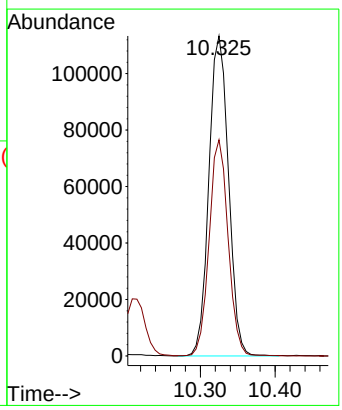


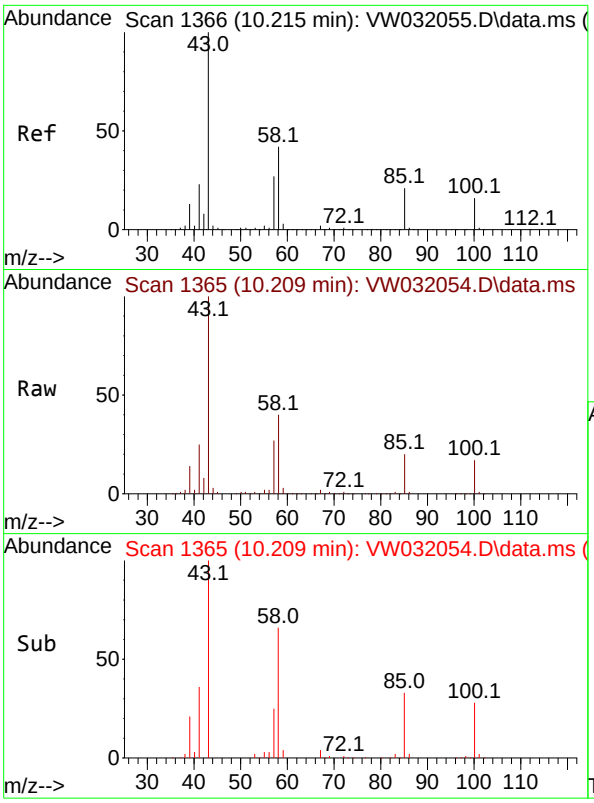


#50
Toluene-d8
Concen: 20.212 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 98 Resp: 206901

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 92.472 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 22066

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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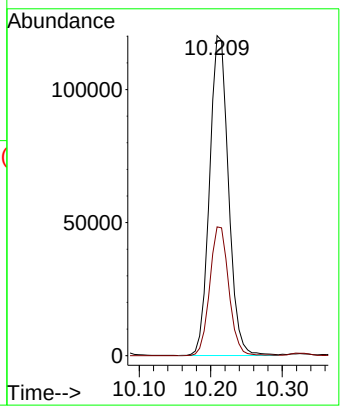
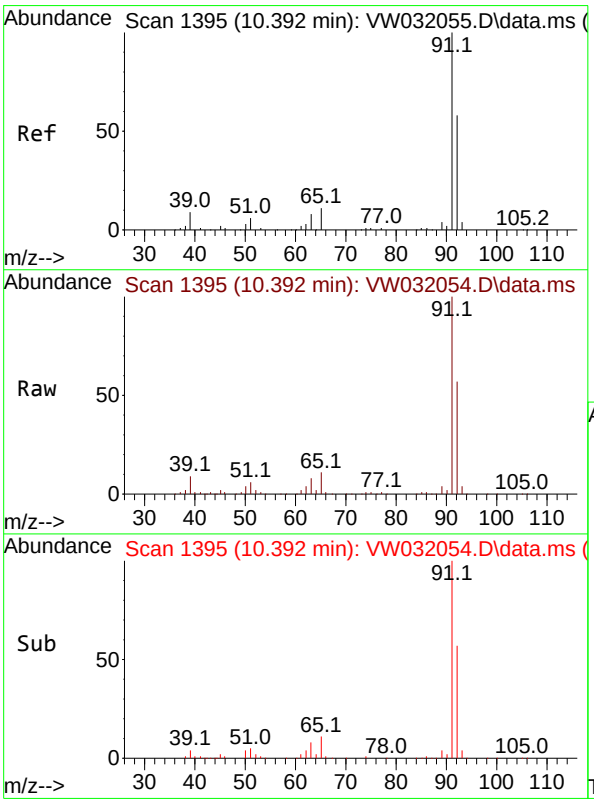
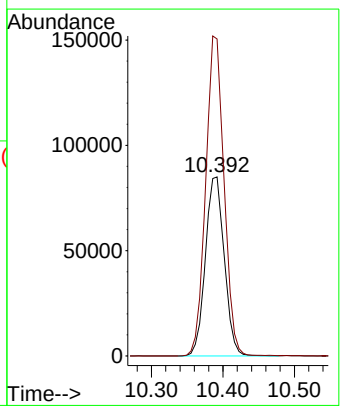


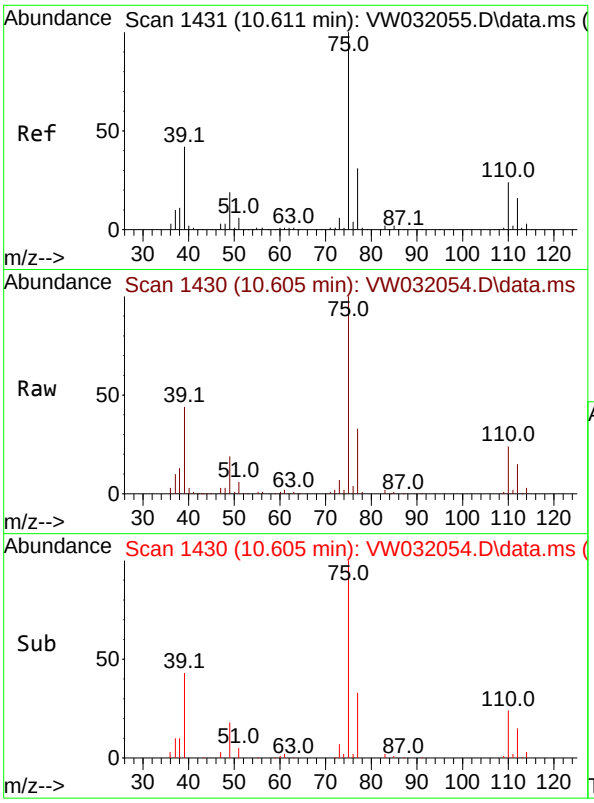


#52
Toluene
Concen: 20.418 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 92 Resp: 155974

Ion	Ratio	Lower	Upper
92	100		
91	173.6	136.3	204.5

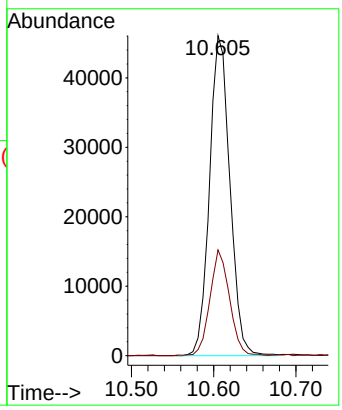




#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 7945

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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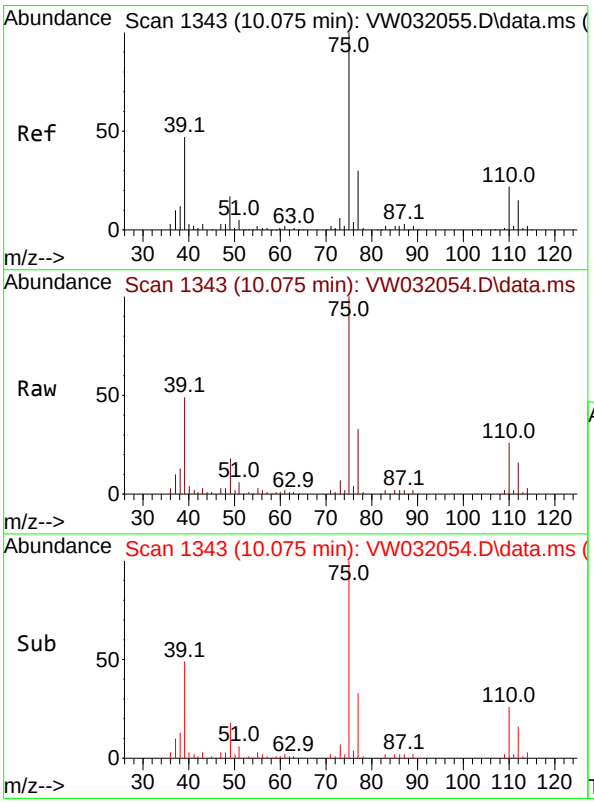
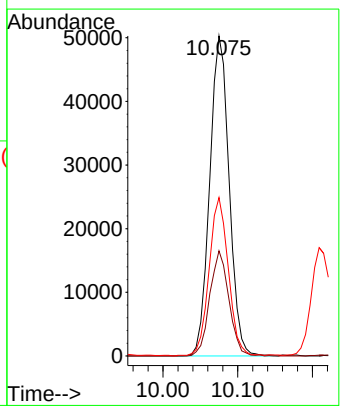
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

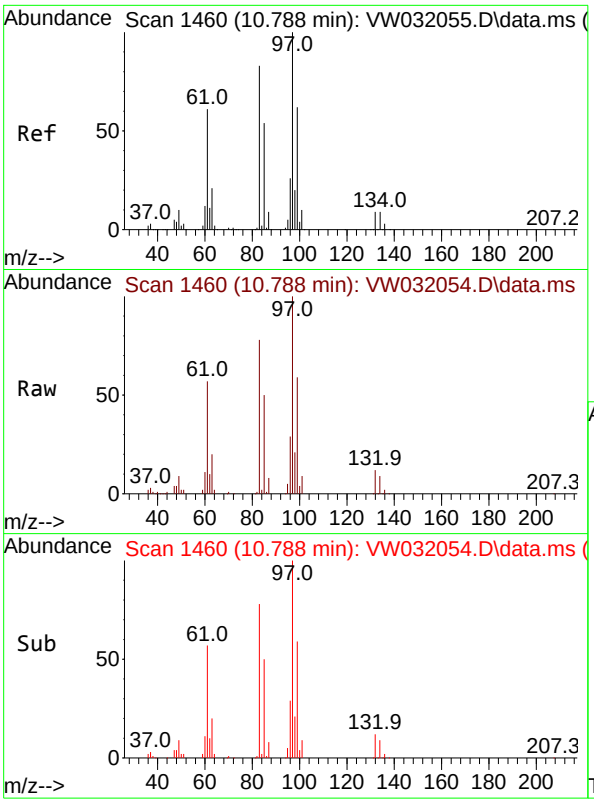


#54
cis-1,3-Dichloropropene
Concen: 19.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 90828

Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.0	36.0
39	49.3	37.8	56.8

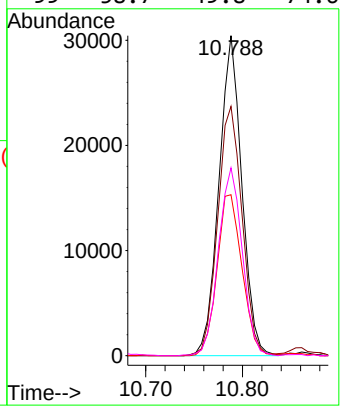




#55
1,1,2-Trichloroethane
Concen: 19.888 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 97 Resp: 4997

Ion	Ratio	Lower	Upper
97	100		
83	77.9	66.4	99.6
85	50.3	43.1	64.7
99	58.7	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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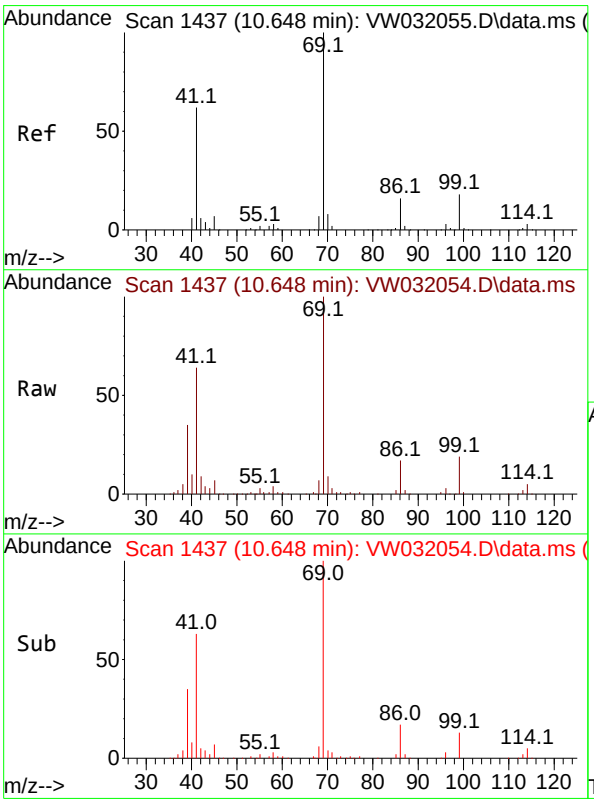
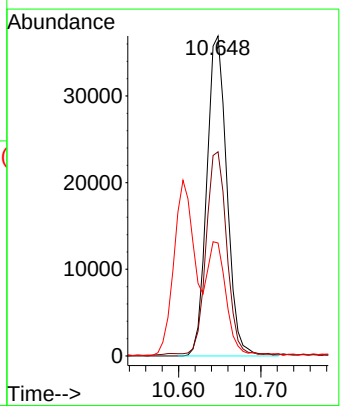
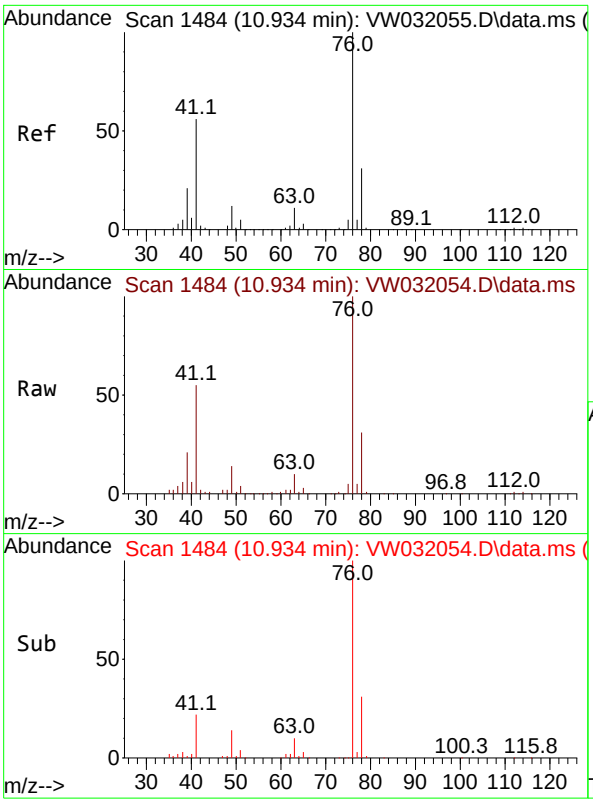


#56
Ethyl methacrylate
Concen: 18.645 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 69 Resp: 62694

Ion	Ratio	Lower	Upper
69	100		
41	67.2	51.2	76.8
39	31.8	25.4	38.0

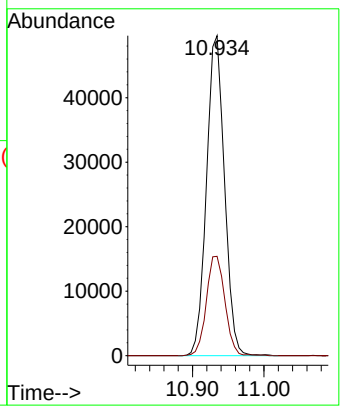




#57
1,3-Dichloropropane
Concen: 19.790 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 76 Resp: 8667

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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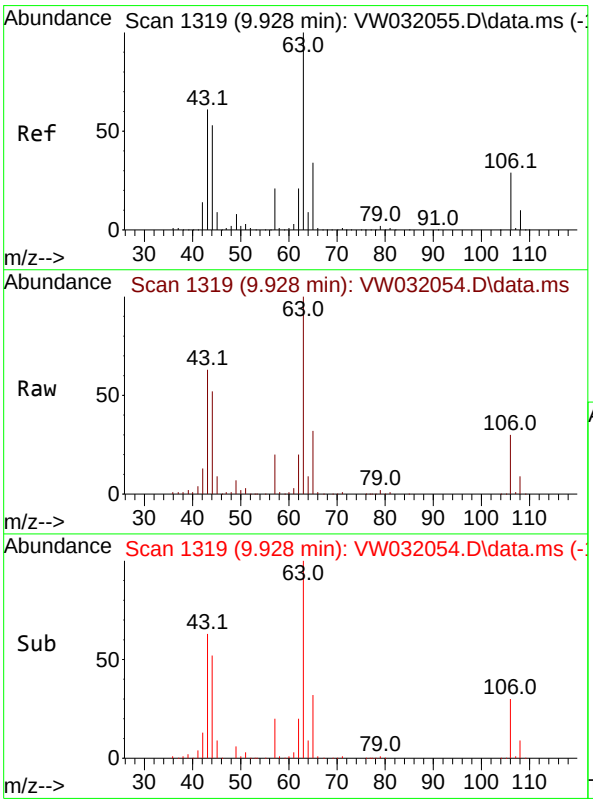
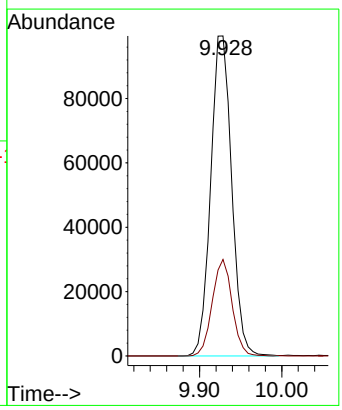
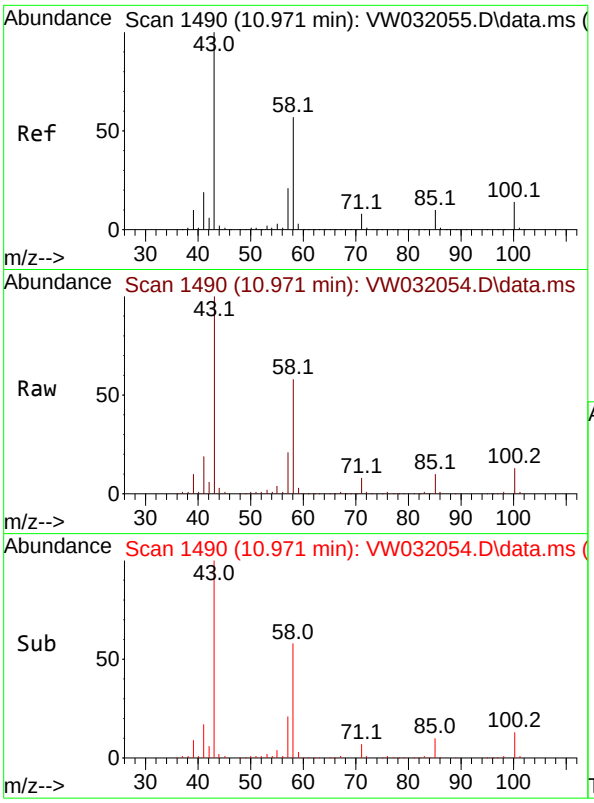


#58
2-Chloroethyl Vinyl ether
Concen: 94.809 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 176339

Ion	Ratio	Lower	Upper
63	100		
106	28.5	23.5	35.3





#59
2-Hexanone
Concen: 91.530 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 15126

Ion	Ratio	Lower	Upper
43	100		
58	56.4	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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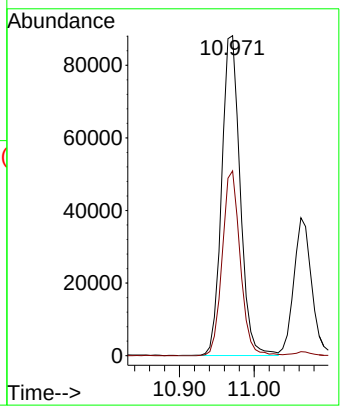
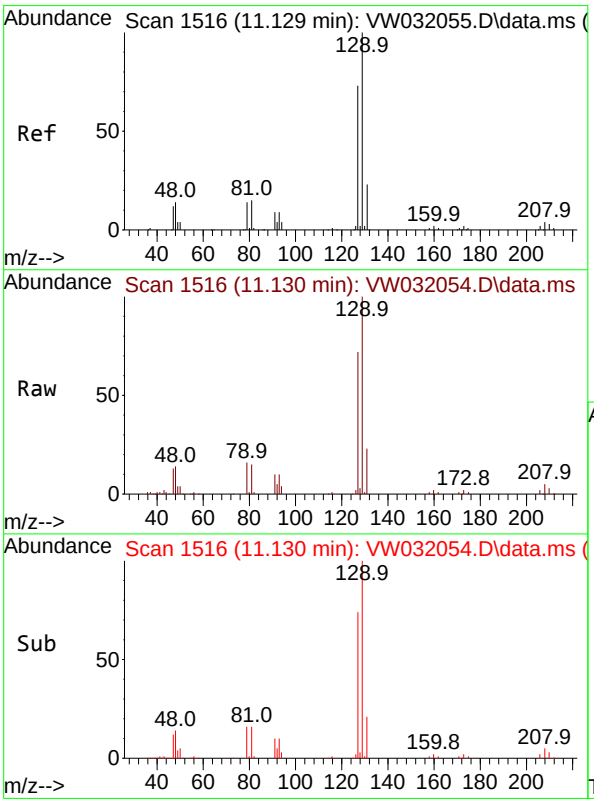
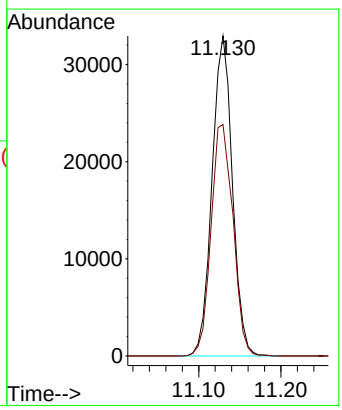


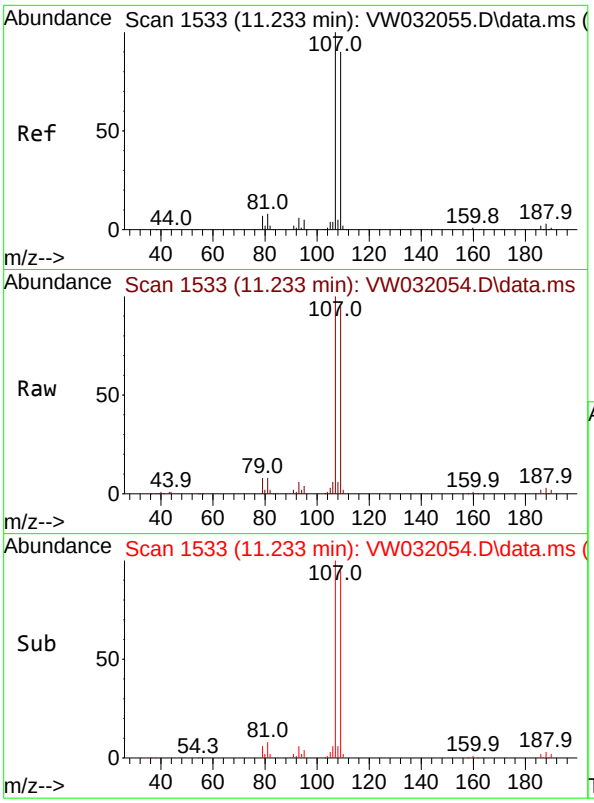


#60
Dibromochloromethane
Concen: 19.721 ug/l
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:129 Resp: 56607

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.0	116.9

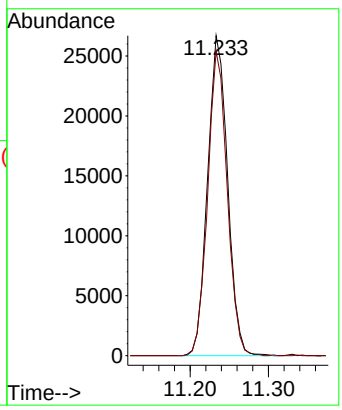




#61
1,2-Dibromoethane
Concen: 19.371 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:107 Resp: 4730

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
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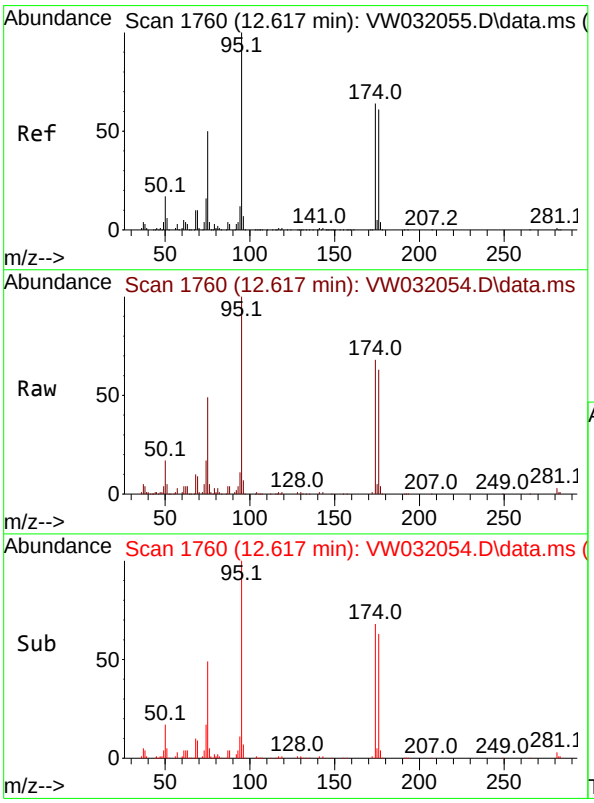
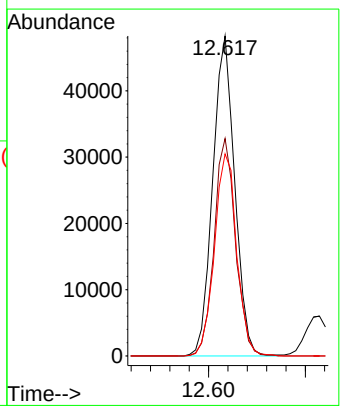
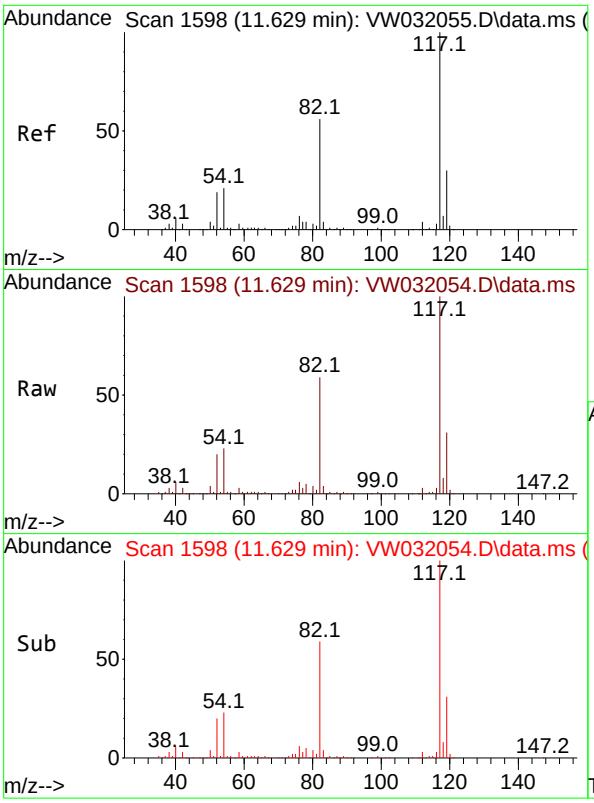


#62
4-Bromofluorobenzene
Concen: 20.149 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 95 Resp: 76008

Ion	Ratio	Lower	Upper
95	100		
174	66.3	0.0	129.0
176	64.1	0.0	124.6

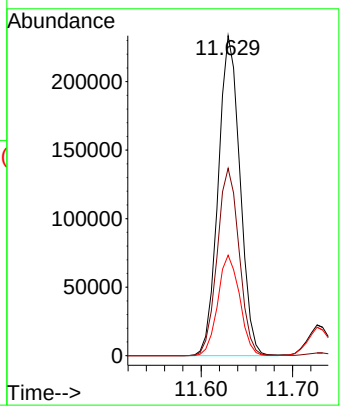




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 38685

Ion	Ratio	Lower	Upper
117	100		
82	58.5	45.0	67.4
119	31.4	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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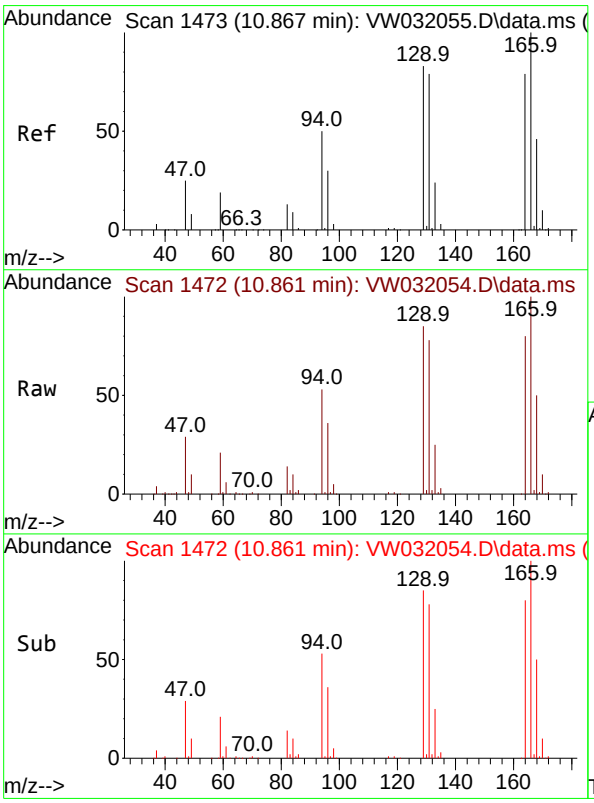
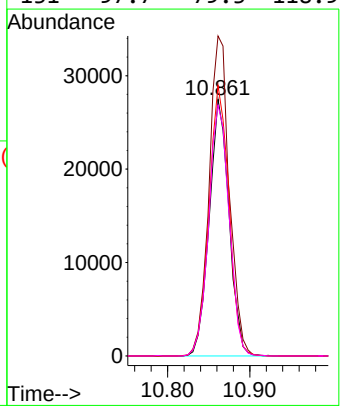
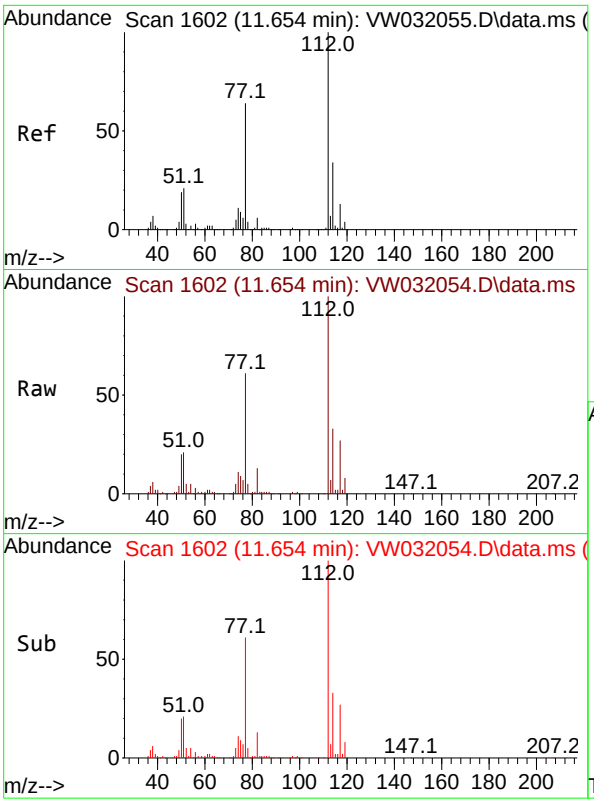


#64
Tetrachloroethene
Concen: 20.434 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:164 Resp: 45660

Ion	Ratio	Lower	Upper
164	100		
166	124.7	100.9	151.3
129	105.4	83.6	125.4
131	97.7	79.3	118.9





#65
Chlorobenzene
Concen: 20.169 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:112 Resp: 16983

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.9	40.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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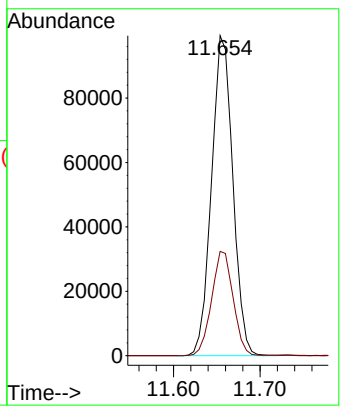
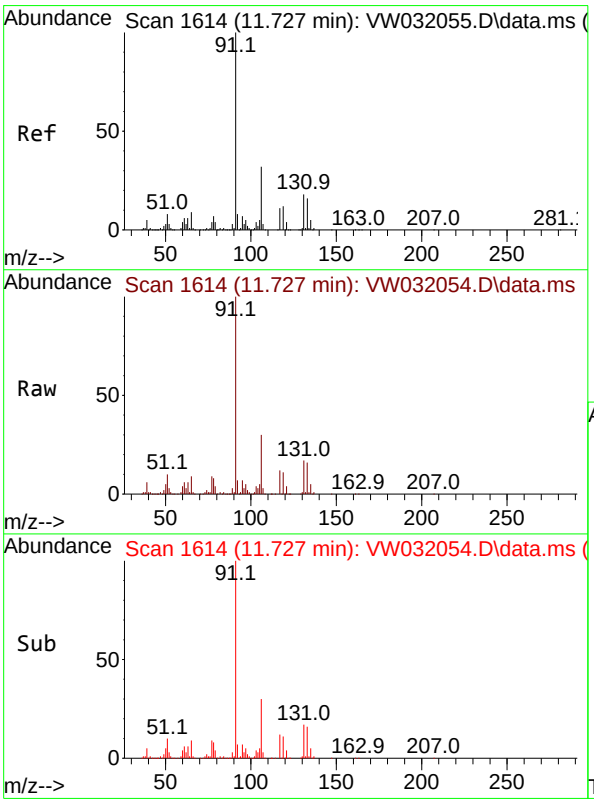
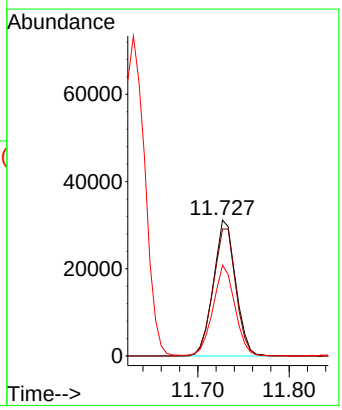


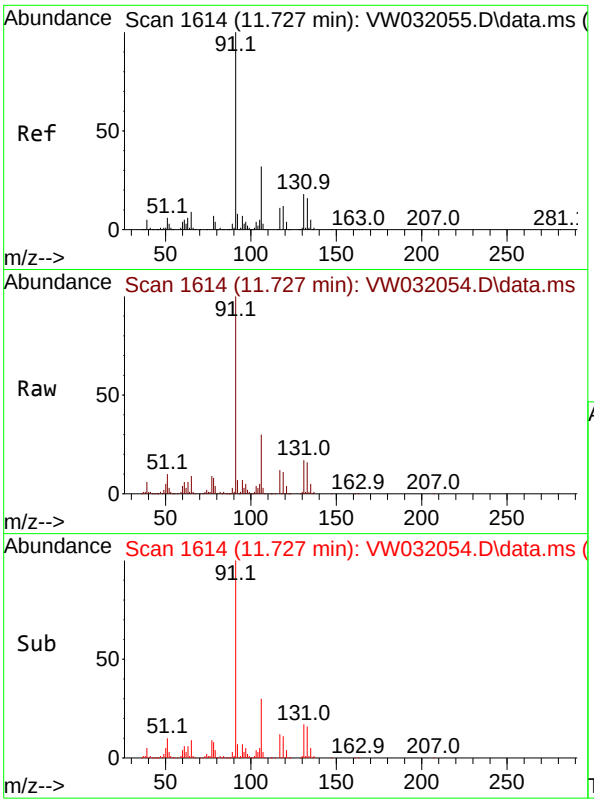


#66
1,1,1,2-Tetrachloroethane
Concen: 20.150 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:131 Resp: 52937

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	65.6	34.5	103.5





#67
Ethyl Benzene
Concen: 20.836 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 29719

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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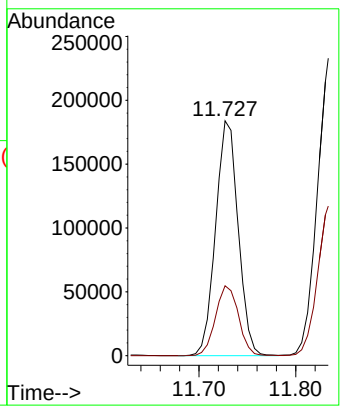
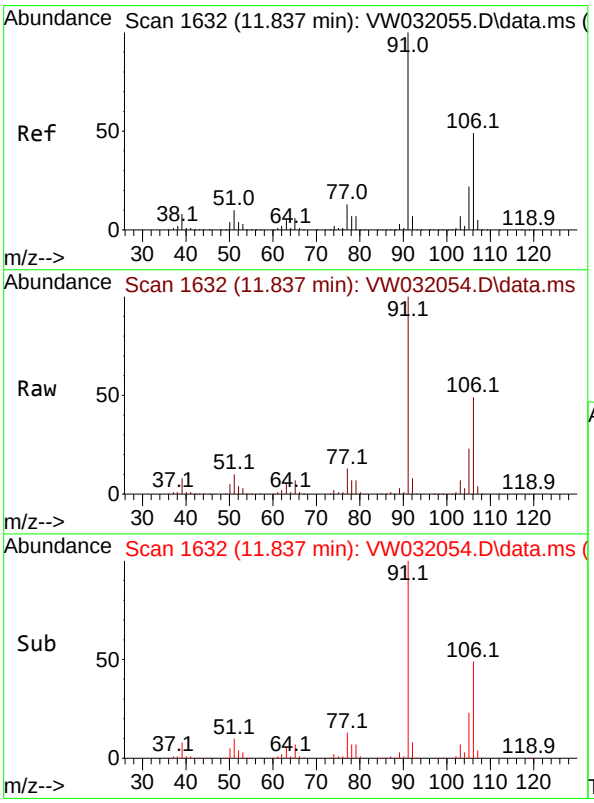
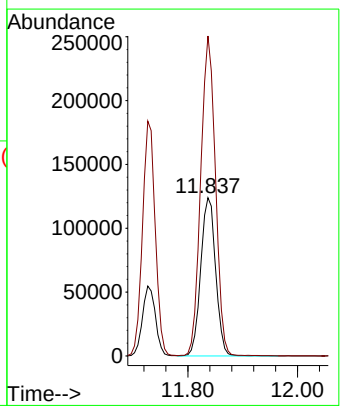


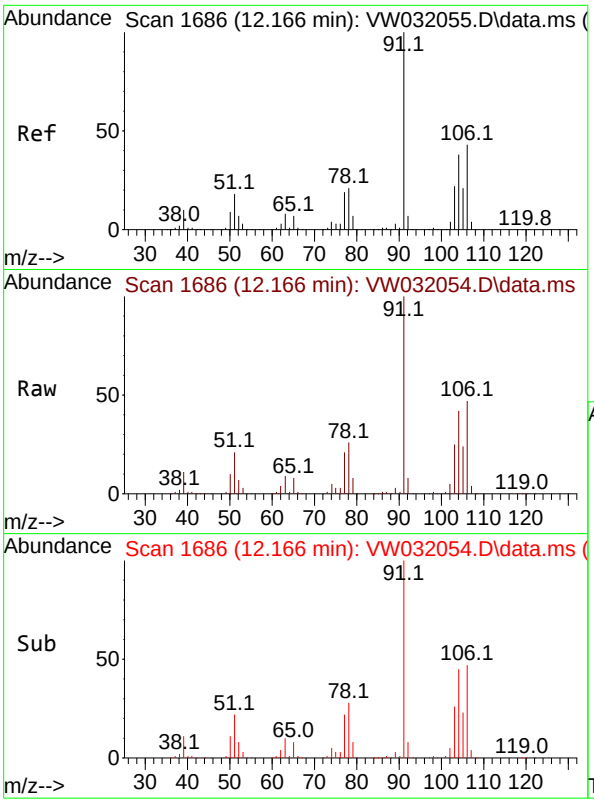


#68
m/p-Xylenes
Concen: 42.376 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 233224

Ion	Ratio	Lower	Upper
106	100		
91	199.8	162.2	243.2





#69
o-Xylene
Concen: 20.482 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 10419

Ion	Ratio	Lower	Upper
106	100		
91	220.7	110.8	332.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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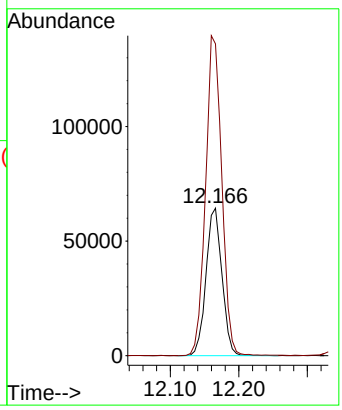
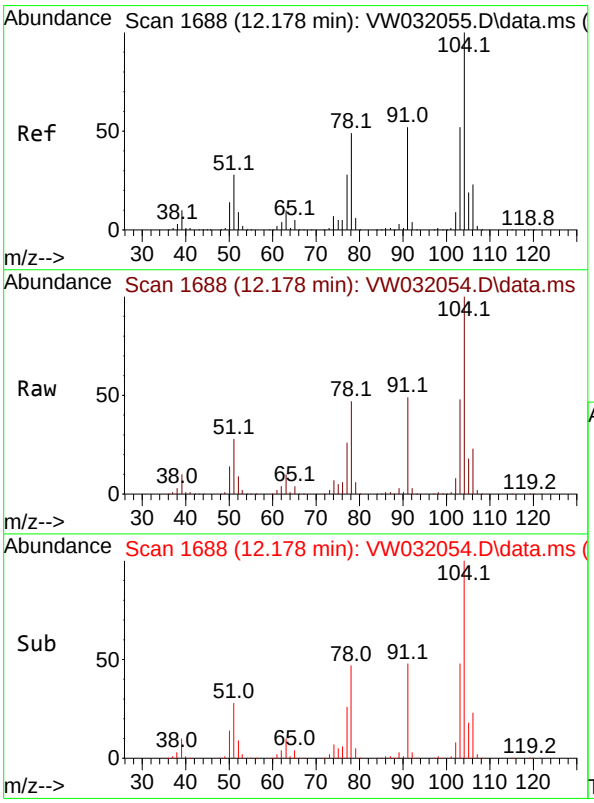
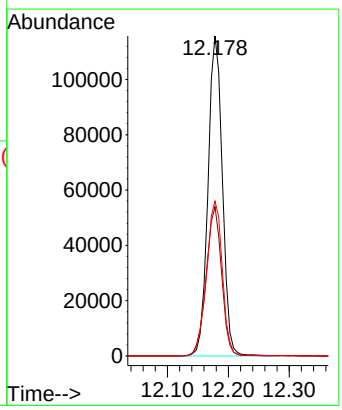


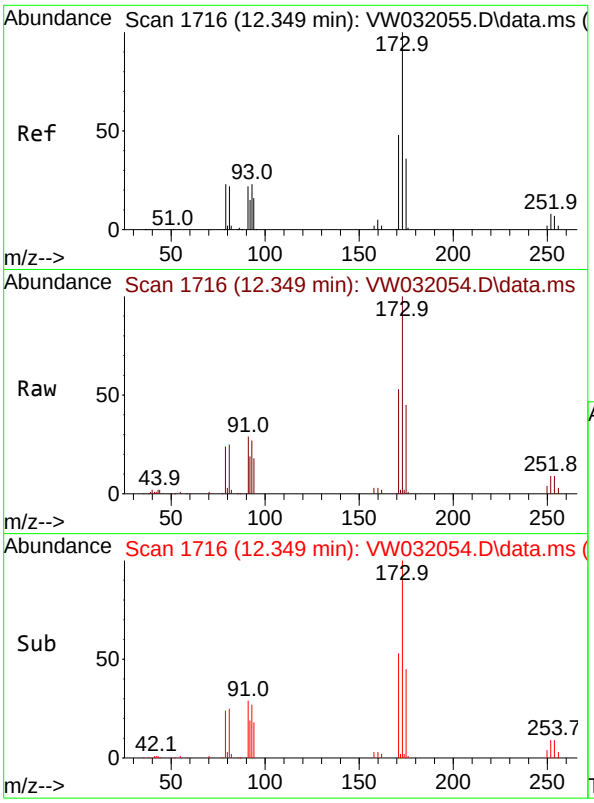


#70
Styrene
Concen: 20.991 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:104 Resp: 189664

Ion	Ratio	Lower	Upper
104	100		
78	50.1	41.2	61.8
103	53.2	43.8	65.8

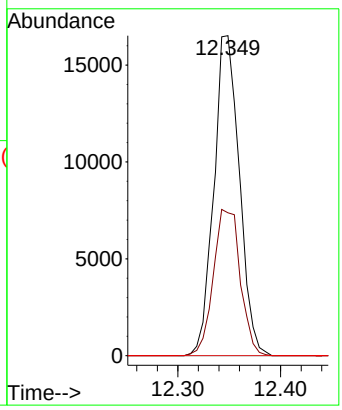




#71
Bromoform
Concen: 18.991 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:173 Resp: 2854

Ion	Ratio	Lower	Upper
173	100		
175	48.1	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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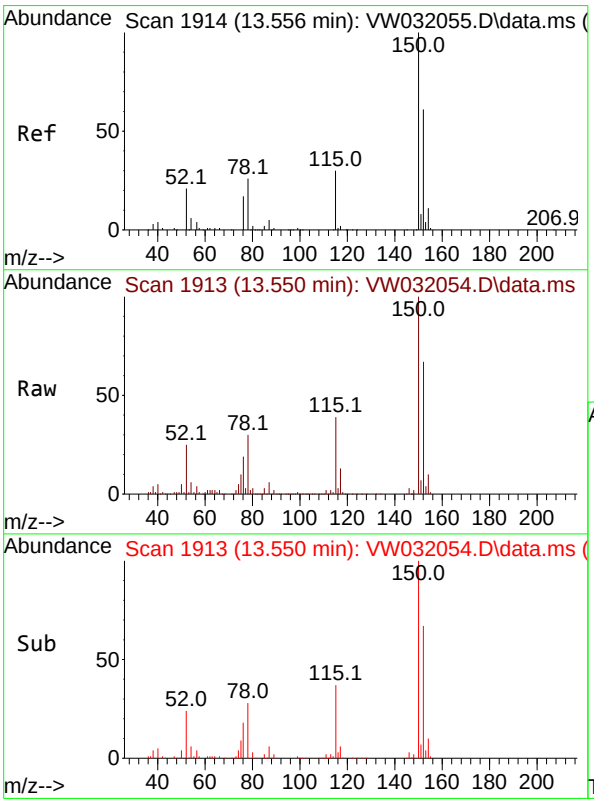
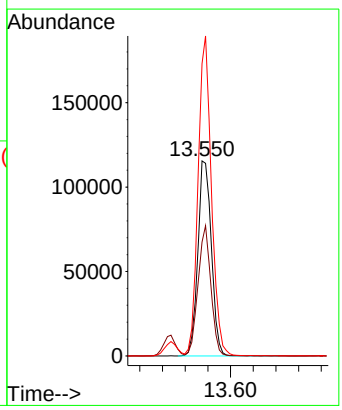
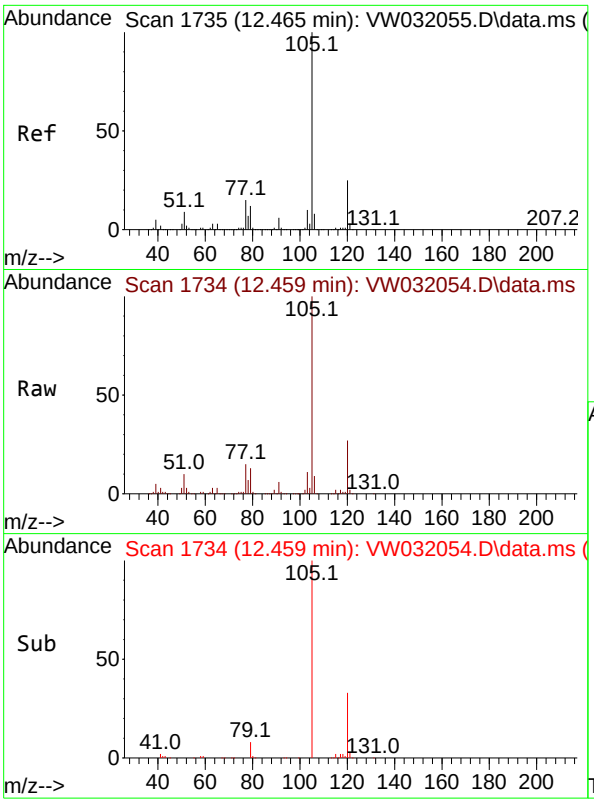


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:152 Resp: 191343

Ion	Ratio	Lower	Upper
152	100		
115	63.0	32.6	97.8
150	161.1	0.0	359.4

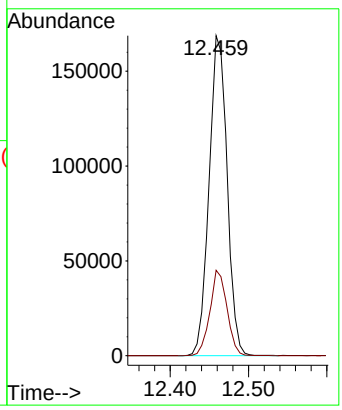




#73
Isopropylbenzene
Concen: 20.178 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 26982

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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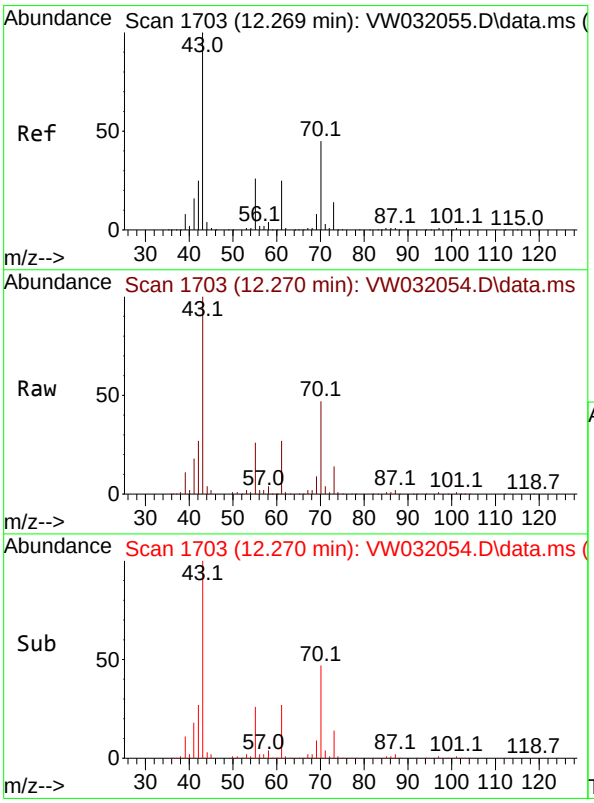
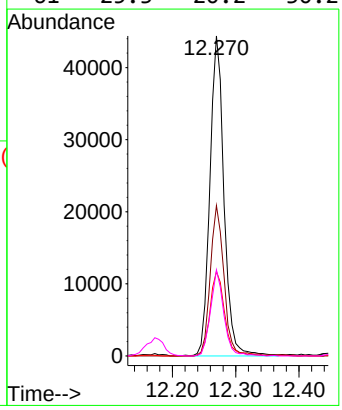
Supervised By :Semsettin Yesilyurt 08/12/2025

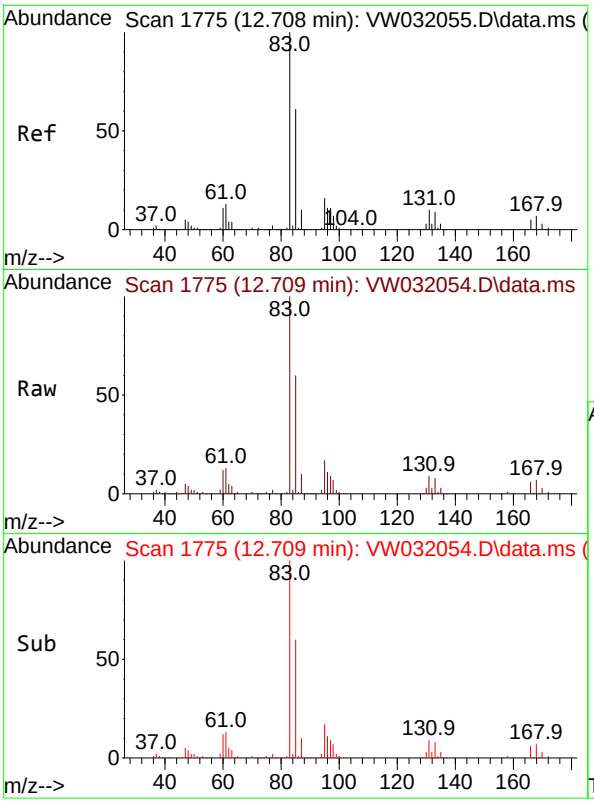


#74
N-amyl acetate
Concen: 18.005 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 69075

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.0	55.4
55	27.7	21.1	31.7
61	25.3	20.2	30.2





#75
1,1,2,2-Tetrachloroethane
Concen: 18.531 ug/l
RT: 12.709 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 5883

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	63.2	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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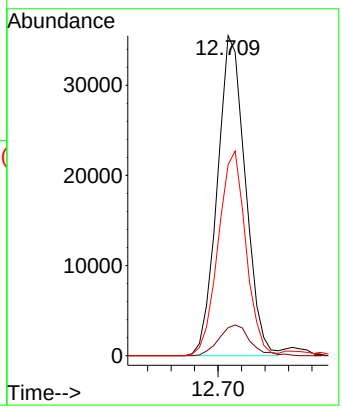
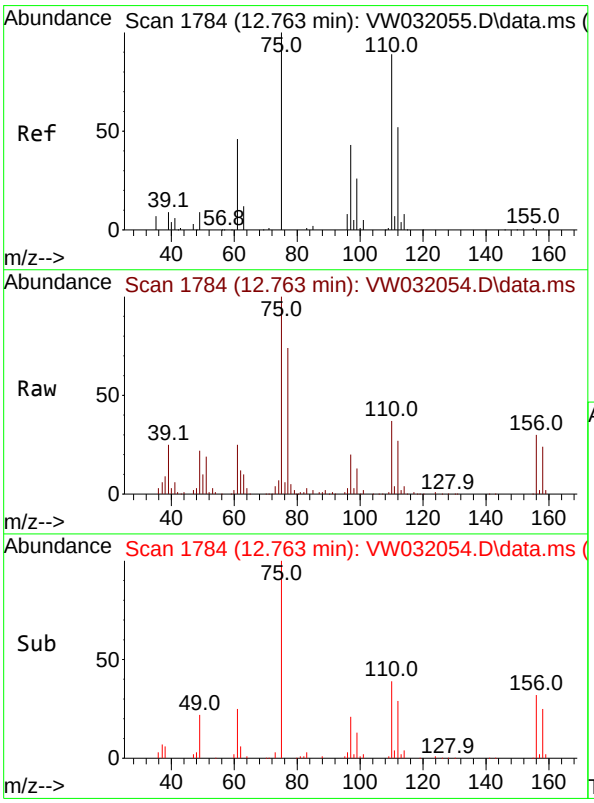
Supervised By :Semsettin Yesilyurt 08/12/2025

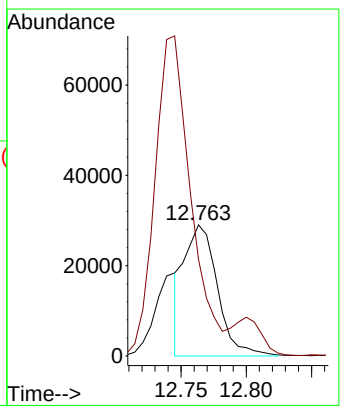


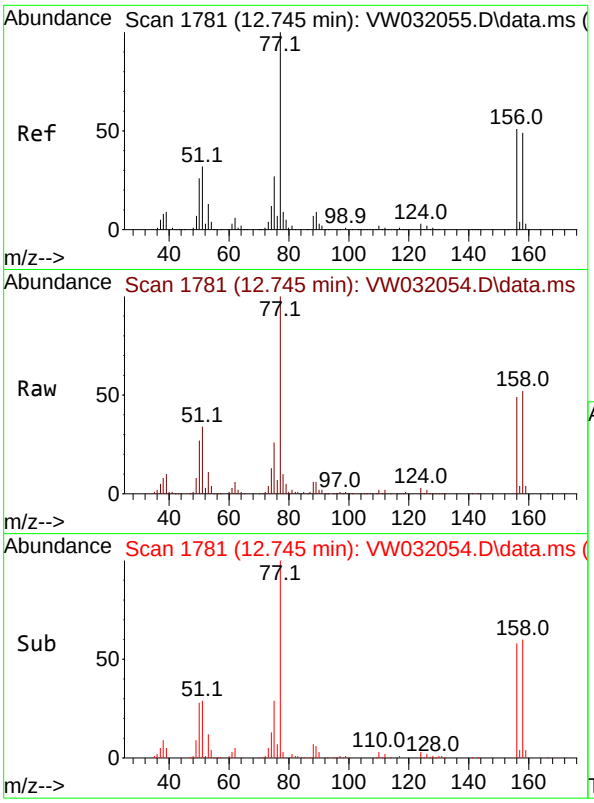


#76
1,2,3-Trichloropropane
Concen: 17.494 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 51456

Ion	Ratio	Lower	Upper
75	100		
77	262.8	123.5	370.5

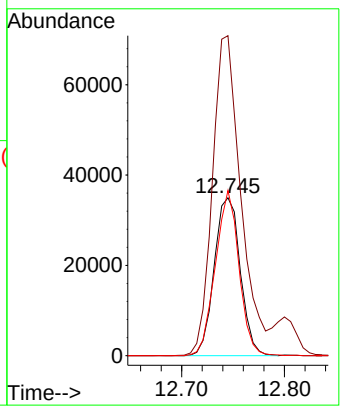




#77
Bromobenzene
Concen: 19.221 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:156 Resp: 6138

Ion	Ratio	Lower	Upper
156	100		
77	220.3	108.7	326.3
158	95.2	48.3	144.9



Instrument :
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ClientSampleId :
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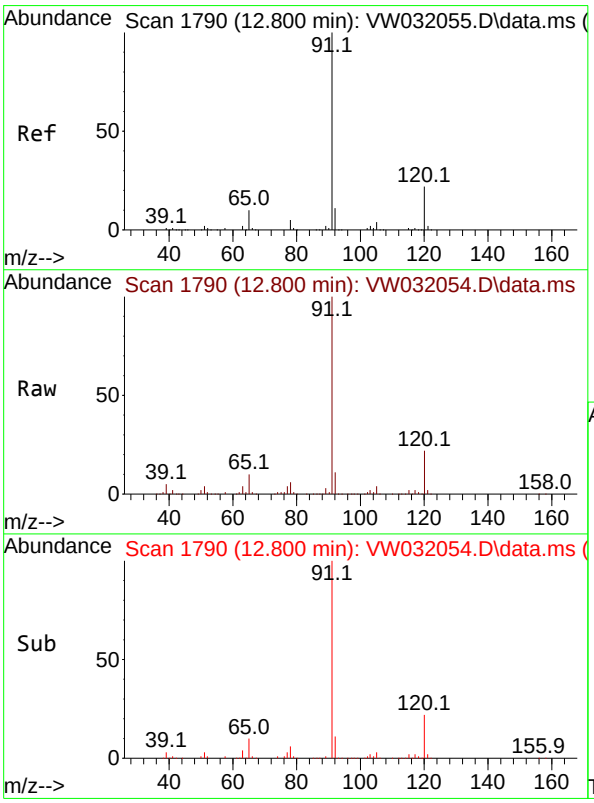
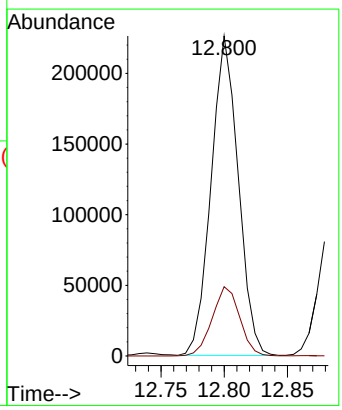
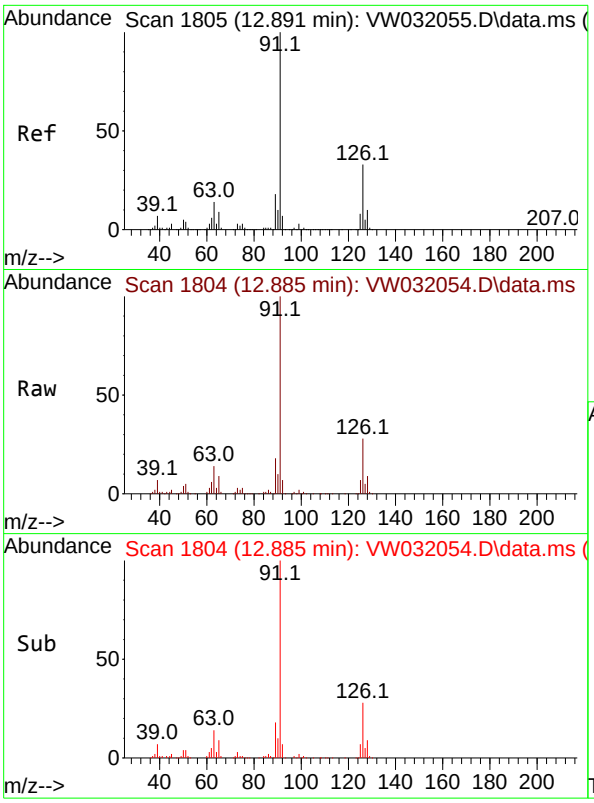


#78
n-propylbenzene
Concen: 20.476 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 337098

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3





#79
2-Chlorotoluene
Concen: 20.069 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 20391

Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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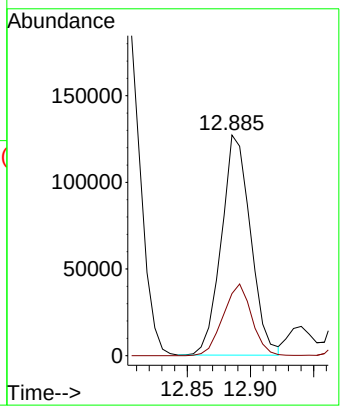
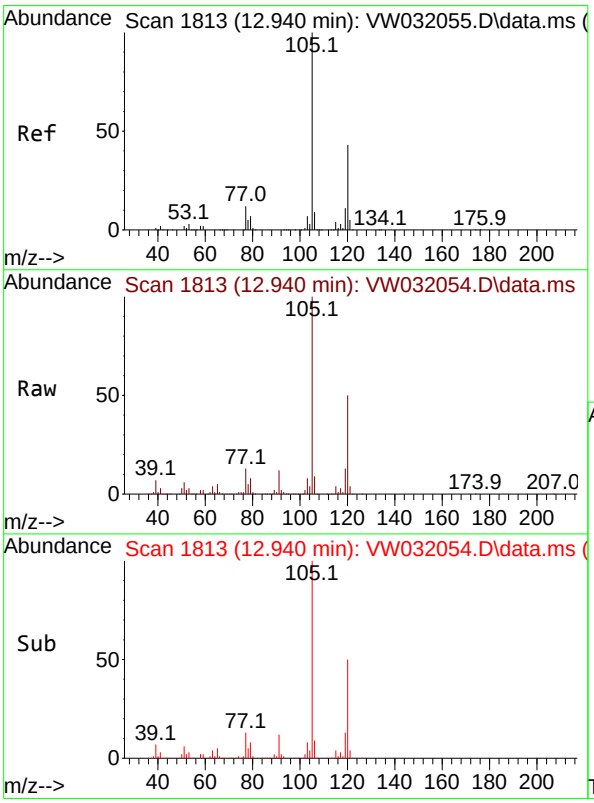
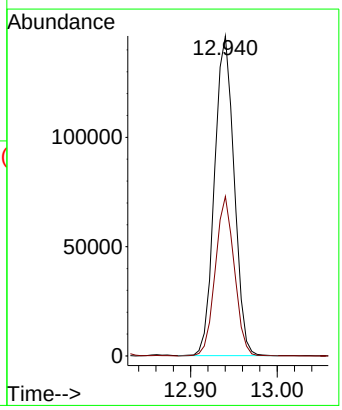


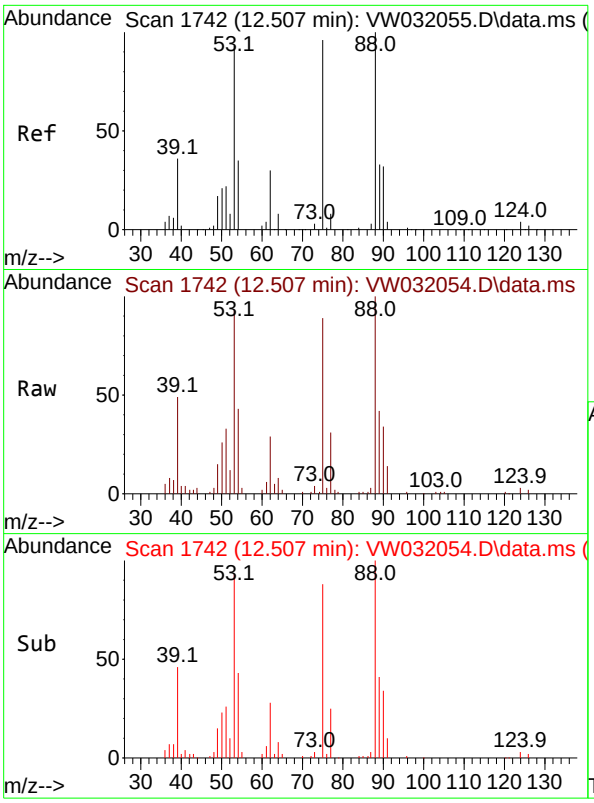


#80
1,3,5-Trimethylbenzene
Concen: 20.226 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 229615

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 17.458 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 1751

Ion	Ratio	Lower	Upper
75	100		
53	110.9	81.0	121.6
89	48.9	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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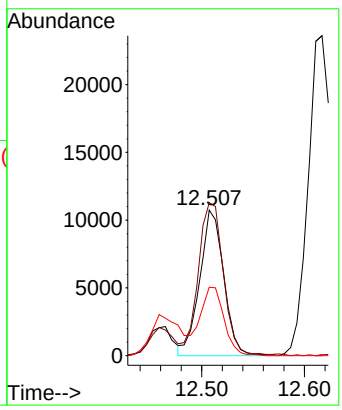
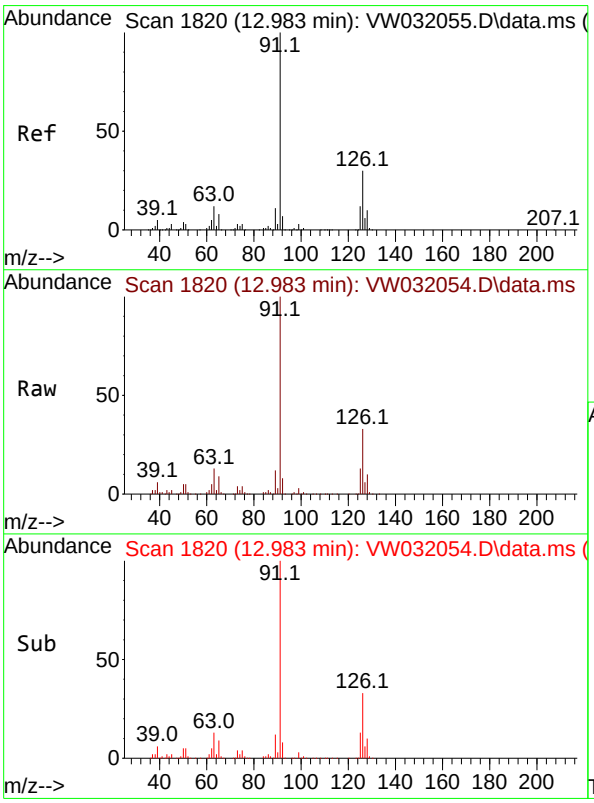
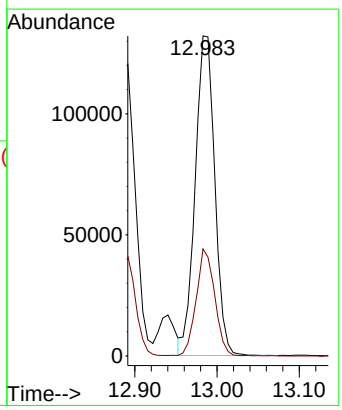


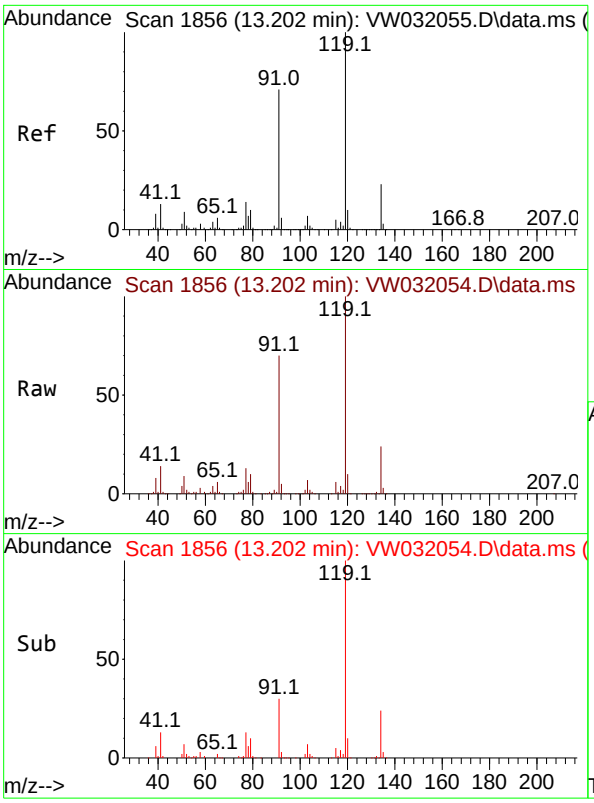


#82
4-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 218637

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.5	46.5

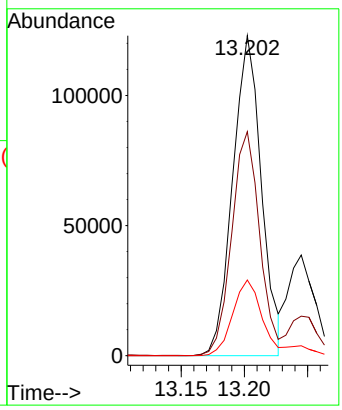




#83
tert-Butylbenzene
Concen: 20.608 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:119 Resp: 19416

Ion	Ratio	Lower	Upper
119	100		
91	68.1	35.3	105.9
134	24.2	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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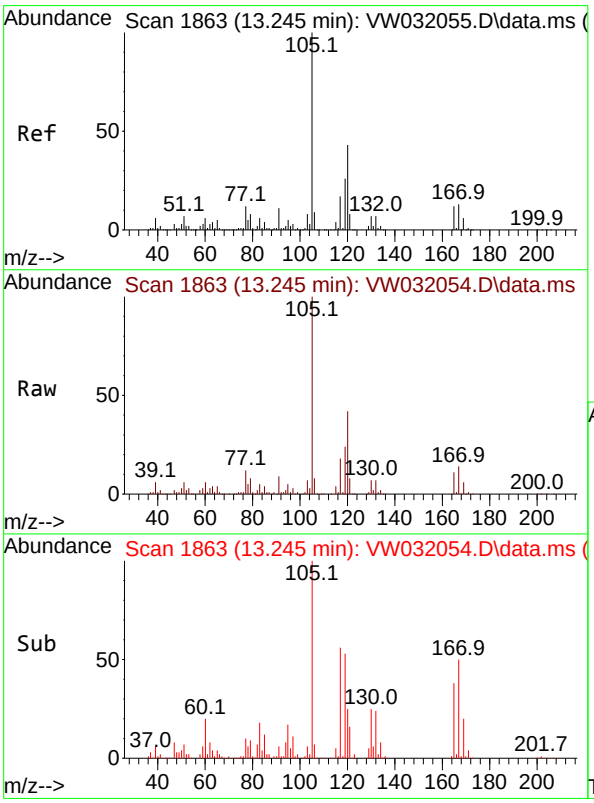
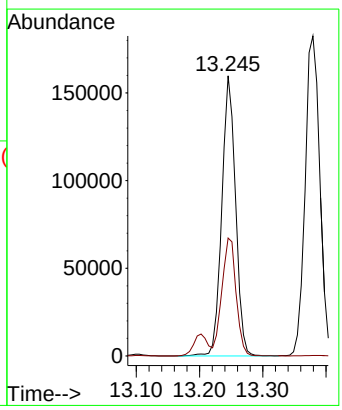
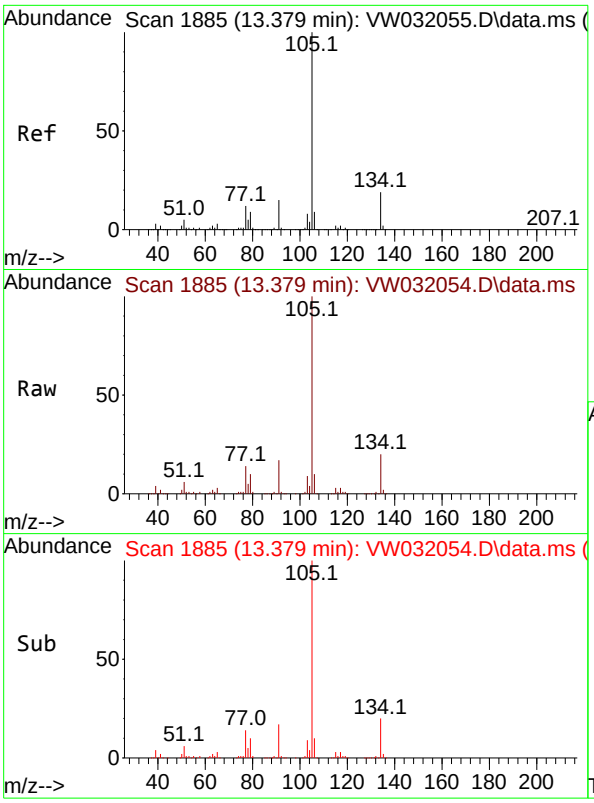


#84
1,2,4-Trimethylbenzene
Concen: 20.774 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 240078

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8





#85
sec-Butylbenzene
Concen: 20.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 29268

Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
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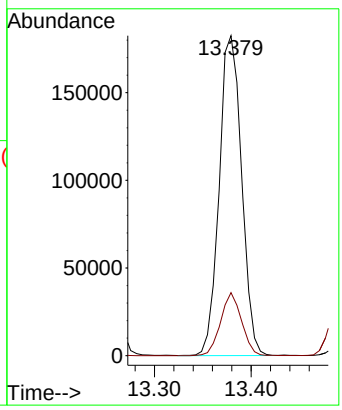
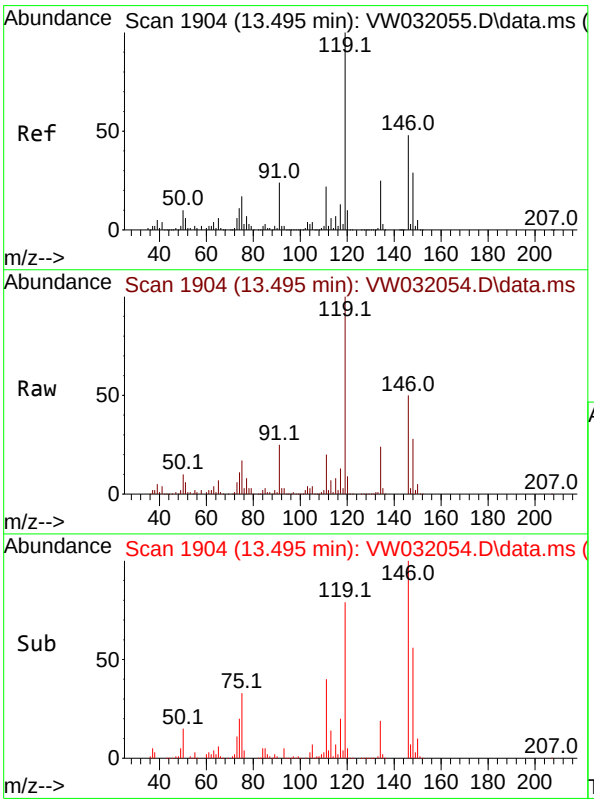
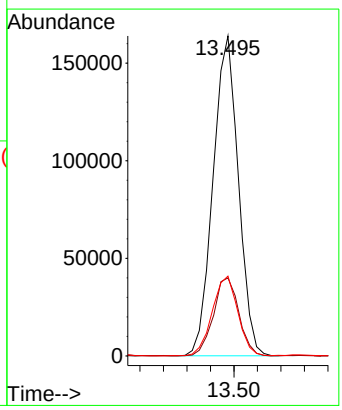


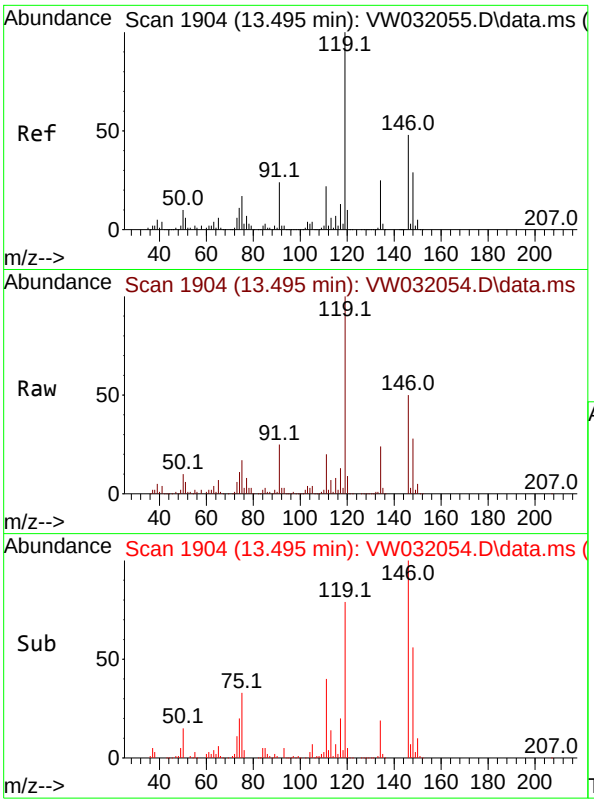


#86
p-Isopropyltoluene
Concen: 20.638 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:119 Resp: 245081

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.4	37.0
91	25.1	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 20.282 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 12889

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.2	63.6
148	61.5	30.3	90.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
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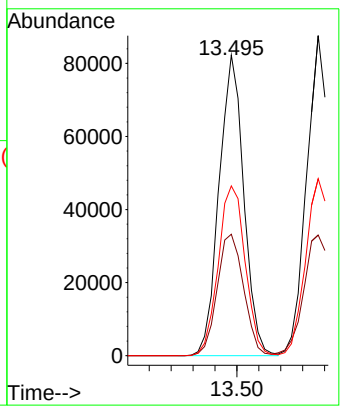
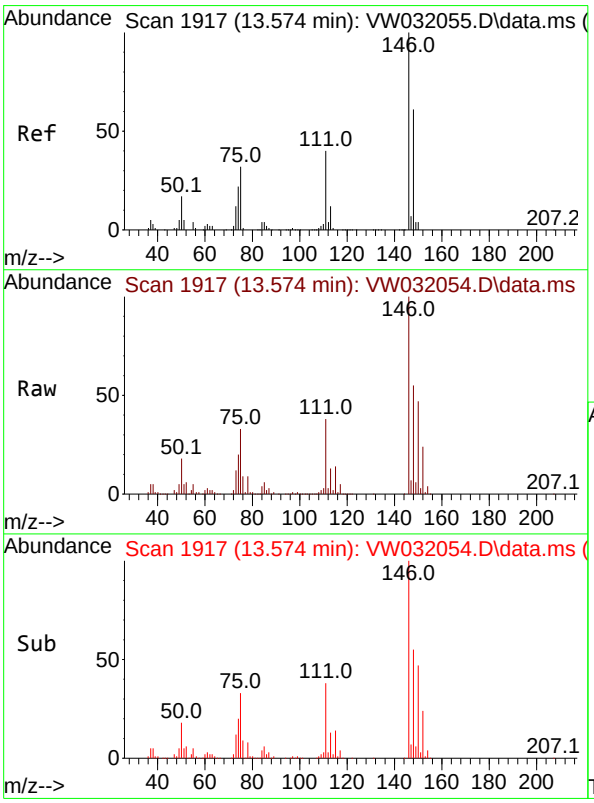
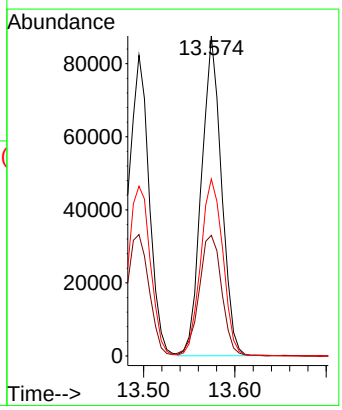


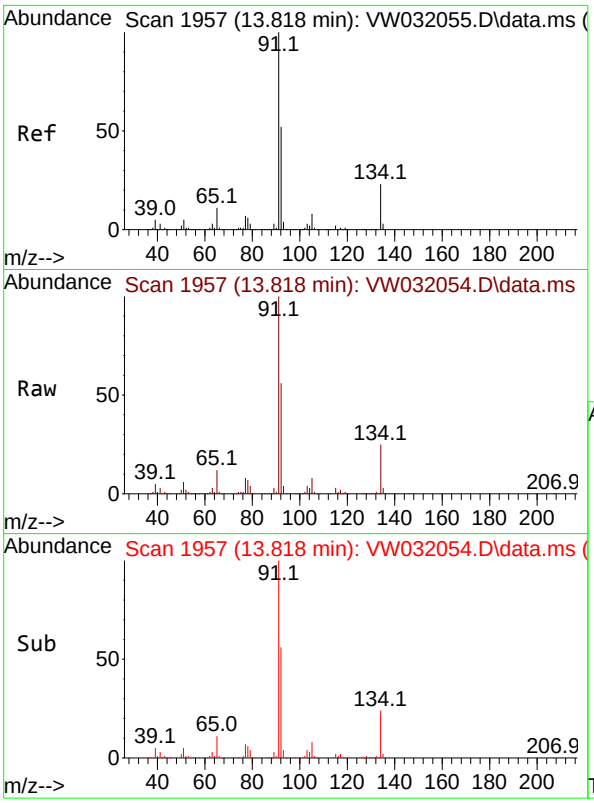


#88
1,4-Dichlorobenzene
Concen: 20.724 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 133097

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.6	64.6
148	61.1	32.0	96.2

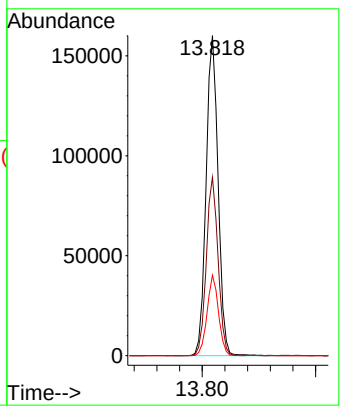




#89
n-Butylbenzene
Concen: 20.328 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 23452

Ion	Ratio	Lower	Upper
91	100		
92	54.8	26.7	80.1
134	24.0	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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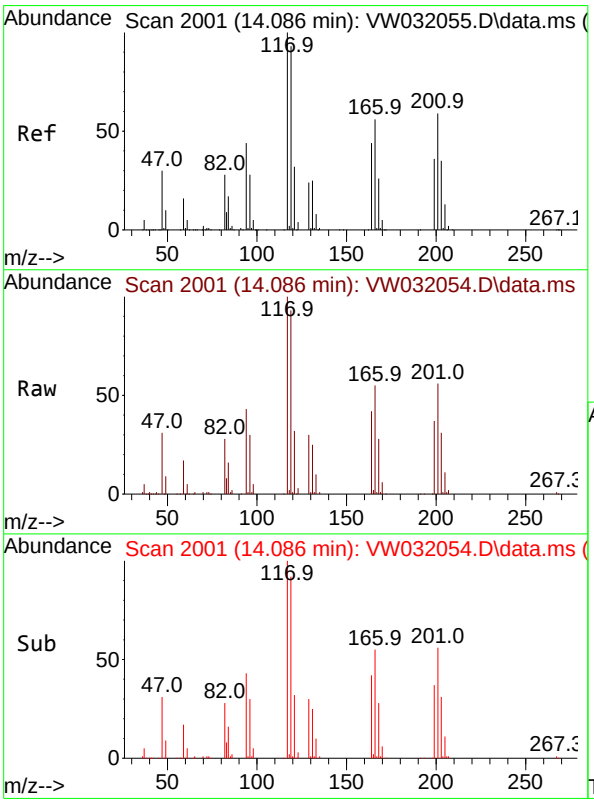
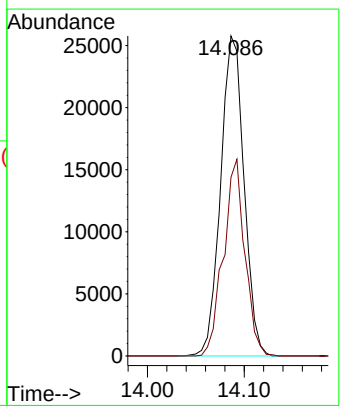
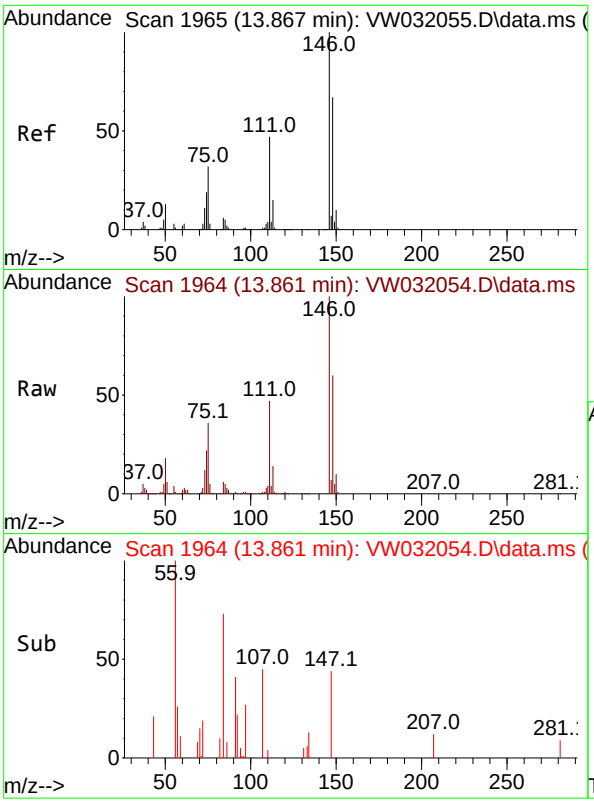


#90
Hexachloroethane
Concen: 19.904 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 43226

Ion	Ratio	Lower	Upper
117	100		
201	56.5	30.9	92.5

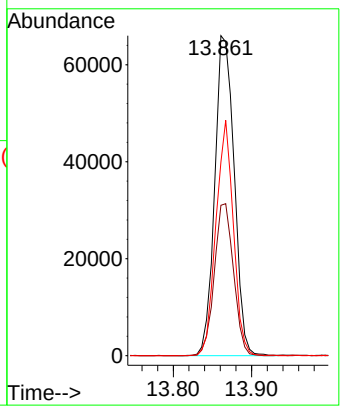




#91
1,2-Dichlorobenzene
Concen: 19.812 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 11405

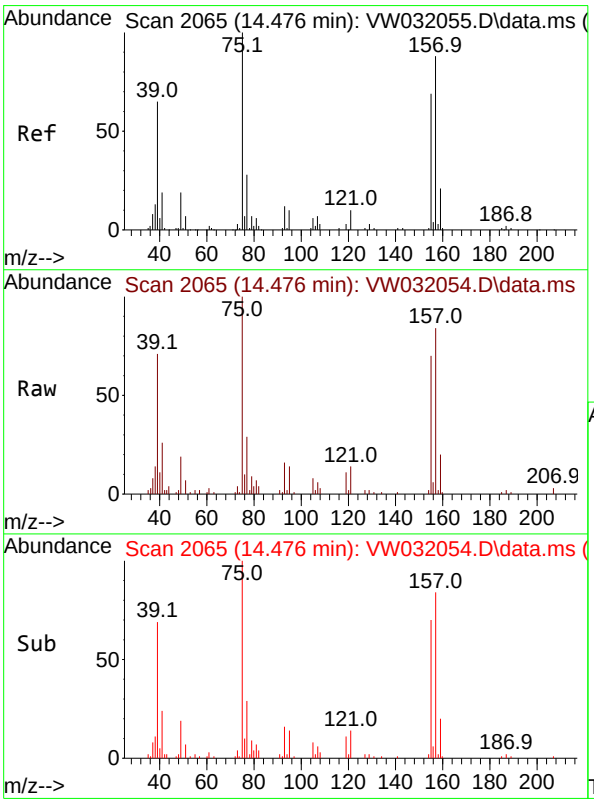
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.1	69.3
148	66.0	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

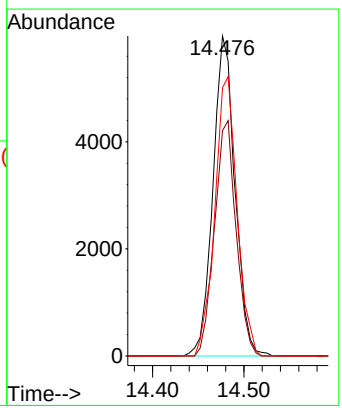
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

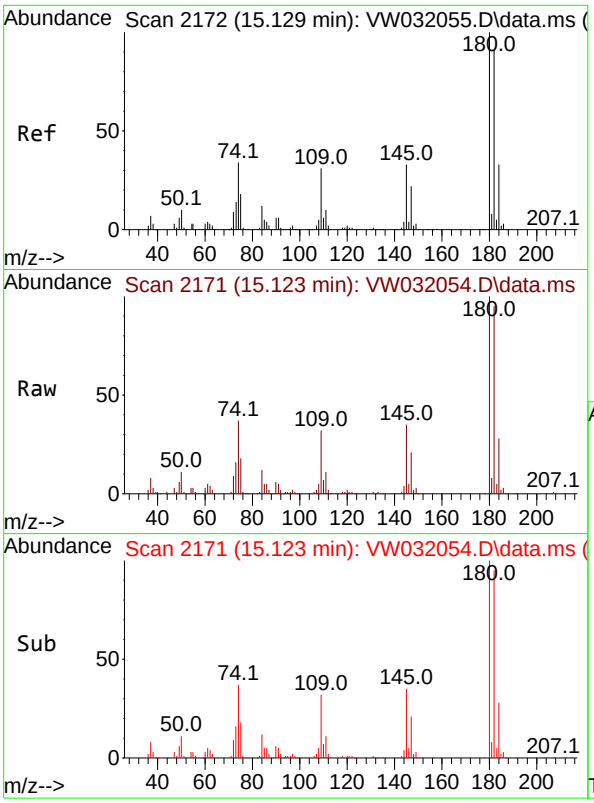


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
155	72.2	35.2	105.6
157	88.0	47.5	142.6

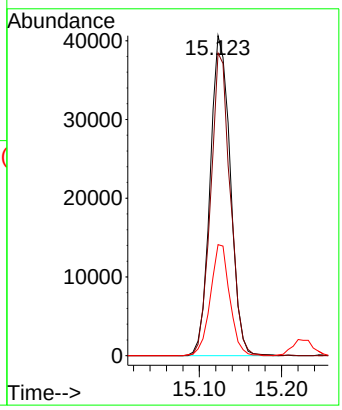




#93
1,2,4-Trichlorobenzene
Concen: 20.102 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 6922

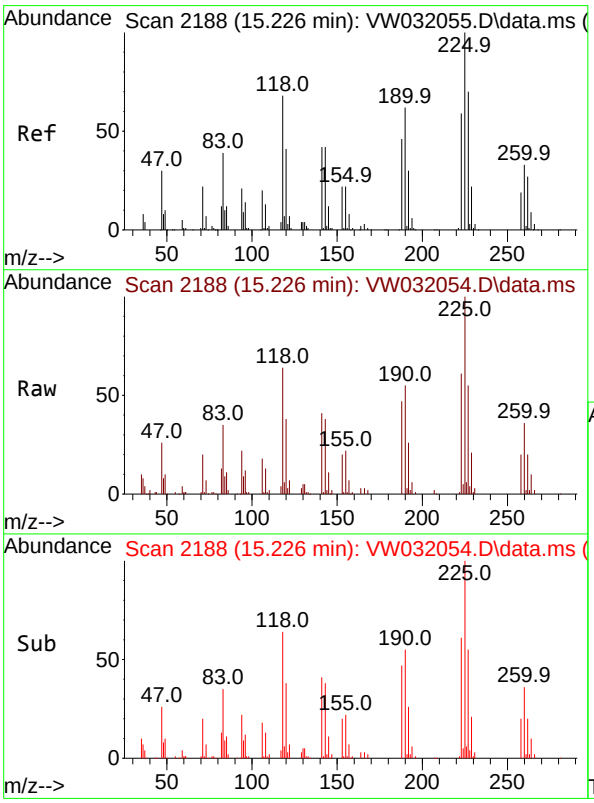
Ion	Ratio	Lower	Upper
180	100		
182	91.7	49.0	147.0
145	33.4	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

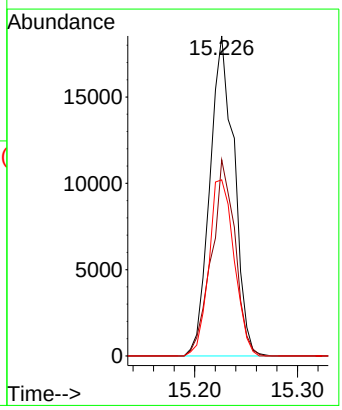
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

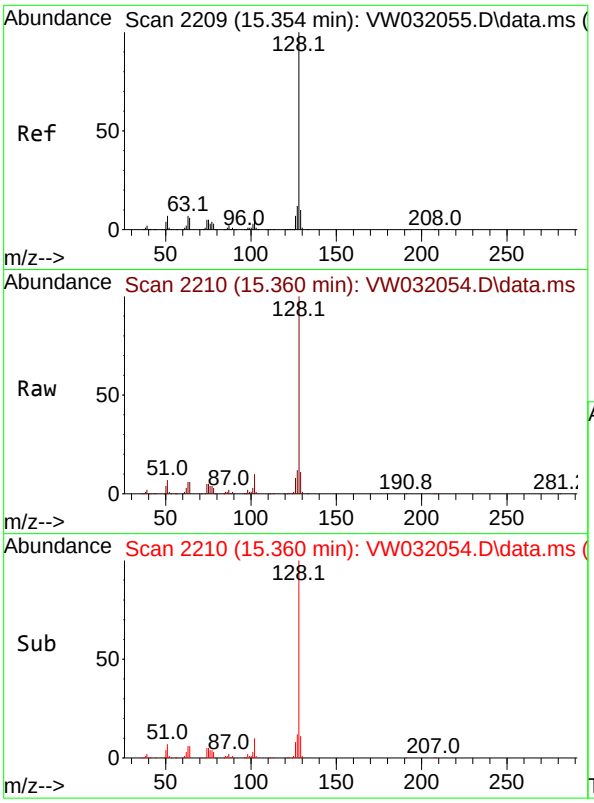


#94
Hexachlorobutadiene
Concen: 19.720 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:225 Resp: 30358

Ion	Ratio	Lower	Upper
225	100		
223	59.4	31.8	95.3
227	57.4	33.5	100.5

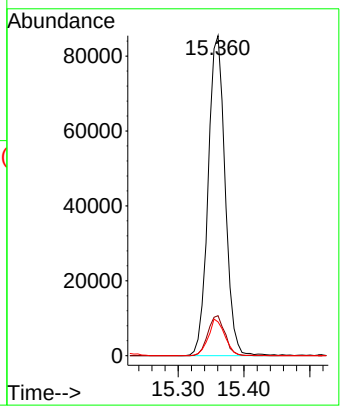




#95
Naphthalene
Concen: 18.147 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:128 Resp: 15313

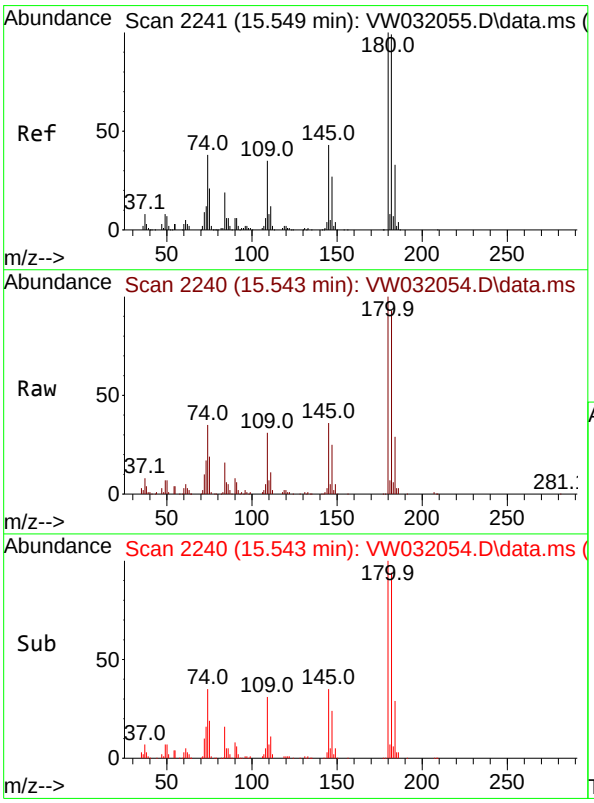
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.1	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

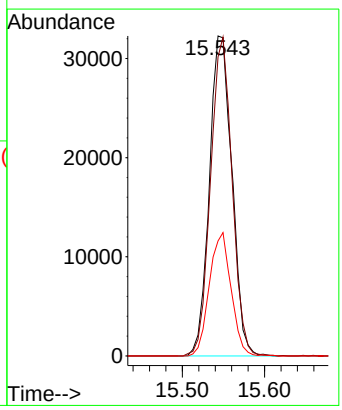
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.635 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 61526

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.0	138.0
145	37.1	19.2	57.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	223324	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	406973	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	378090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	178995	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159972	49.529	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 99.060%			
35) Dibromofluoromethane	7.898	113	132195	50.279	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 100.560%			
50) Toluene-d8	10.325	98	506634	52.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 104.200%			
62) 4-Bromofluorobenzene	12.617	95	187331	52.274	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	75096	47.015	ug/l	100
3) Chloromethane	2.259	50	97719	45.418	ug/l	100
4) Vinyl Chloride	2.405	62	118378	45.486	ug/l	100
5) Bromomethane	2.820	94	91749	46.991	ug/l	100
6) Chloroethane	2.972	64	82045	47.641	ug/l	100
7) Trichlorofluoromethane	3.302	101	103706	49.743	ug/l	100
8) Diethyl Ether	3.722	74	84764	49.624	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.094	101	115526	46.968	ug/l	100
10) Methyl Iodide	4.307	142	167079	47.909	ug/l	100
11) Tert butyl alcohol	5.222	59	56322	269.294	ug/l	100
12) 1,1-Dichloroethene	4.082	96	128304	47.373	ug/l	100
13) Acrolein	3.930	56	78858	236.637	ug/l	100
14) Allyl chloride	4.704	41	192434	48.819	ug/l	100
15) Acrylonitrile	5.405	53	213941	262.963	ug/l	100
16) Acetone	4.161	43	182559	244.127	ug/l	100
17) Carbon Disulfide	4.423	76	347752	47.836	ug/l	100
18) Methyl Acetate	4.710	43	123902	52.361	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	246045	51.560	ug/l	100
20) Methylene Chloride	4.960	84	152186	44.016	ug/l	100
21) trans-1,2-Dichloroethene	5.460	96	139994	48.707	ug/l	100
22) Diisopropyl ether	6.344	45	421731	50.751	ug/l	100
23) Vinyl Acetate	6.283	43	1450553	265.873	ug/l	100
24) 1,1-Dichloroethane	6.240	63	258279	48.646	ug/l	100
25) 2-Butanone	7.191	43	284711	267.883	ug/l	100
26) 2,2-Dichloropropane	7.191	77	129390	48.578	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	167240	49.779	ug/l	100
28) Bromochloromethane	7.533	49	121266	50.191	ug/l	100
29) Tetrahydrofuran	7.551	42	190719	272.100	ug/l	100
30) Chloroform	7.691	83	275905	49.018	ug/l	100
31) Cyclohexane	7.971	56	214597	46.622	ug/l	100
32) 1,1,1-Trichloroethane	7.886	97	194676	47.617	ug/l	100
36) 1,1-Dichloropropene	8.099	75	190046	51.274	ug/l	100
37) Ethyl Acetate	7.276	43	119689	54.829	ug/l	100
38) Carbon Tetrachloride	8.087	117	182422	51.000	ug/l	100
39) Methylcyclohexane	9.343	83	235341	52.093	ug/l	100
40) Benzene	8.337	78	597760	51.883	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	68136	55.039	ug/l		100
42) 1,2-Dichloroethane	8.410	62	189755	51.471	ug/l		100
43) Isopropyl Acetate	8.435	43	219064	54.544	ug/l		100
44) Trichloroethene	9.099	130	137910	50.264	ug/l		100
45) 1,2-Dichloropropane	9.374	63	143446	51.537	ug/l		100
46) Dibromomethane	9.465	93	93001	51.770	ug/l		100
47) Bromodichloromethane	9.654	83	216521	52.307	ug/l		100
48) Methyl methacrylate	9.441	41	108287	55.849	ug/l		100
49) 1,4-Dioxane	9.465	88	26579	1144.321	ug/l		100
51) 4-Methyl-2-Pentanone	10.215	43	635174	280.194	ug/l		100
52) Toluene	10.392	92	379230	52.258	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	209555	54.035	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	236454	53.744	ug/l		100
55) 1,1,2-Trichloroethane	10.788	97	124341	52.088	ug/l		100
56) Ethyl methacrylate	10.648	69	178974	56.027	ug/l		100
57) 1,3-Dichloropropane	10.934	76	216719	52.084	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	490522	277.613	ug/l		100
59) 2-Hexanone	10.971	43	447423	284.986	ug/l		100
60) Dibromochloromethane	11.129	129	142234	52.161	ug/l		100
61) 1,2-Dibromoethane	11.233	107	121625	52.430	ug/l		100
64) Tetrachloroethene	10.867	164	105400	48.263	ug/l		100
65) Chlorobenzene	11.654	112	403926	49.082	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.727	131	128215	49.935	ug/l		100
67) Ethyl Benzene	11.727	91	706877	50.709	ug/l		100
68) m/p-Xylenes	11.837	106	552442	102.704	ug/l		100
69) o-Xylene	12.166	106	257591	51.812	ug/l		100
70) Styrene	12.178	104	457949	51.858	ug/l		100
71) Bromoform	12.349	173	77959	53.078	ug/l	#	100
73) Isopropylbenzene	12.465	105	654522	52.323	ug/l		100
74) N-amyl acetate	12.269	43	199256	55.520	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.708	83	156076	52.549	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	137632m	50.019	ug/l		
77) Bromobenzene	12.745	156	156335	52.326	ug/l		100
78) n-propylbenzene	12.800	91	805515	52.304	ug/l		100
79) 2-Chlorotoluene	12.891	91	490665	51.622	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	555481	52.305	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.507	75	51811	55.213	ug/l		100
82) 4-Chlorotoluene	12.983	91	519957	51.488	ug/l		100
83) tert-Butylbenzene	13.202	119	462373	52.460	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	572429	52.950	ug/l		100
85) sec-Butylbenzene	13.379	105	690647	51.829	ug/l		100
86) p-Isopropyltoluene	13.495	119	589769	53.089	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	313624	52.754	ug/l		100
88) 1,4-Dichlorobenzene	13.574	146	299453	49.844	ug/l		100
89) n-Butylbenzene	13.818	91	569364	52.756	ug/l		100
90) Hexachloroethane	14.086	117	101464	49.942	ug/l		100
91) 1,2-Dichlorobenzene	13.867	146	273581	50.801	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.476	75	28437	53.857	ug/l		100
93) 1,2,4-Trichlorobenzene	15.129	180	164726	51.132	ug/l		100
94) Hexachlorobutadiene	15.226	225	68983	47.902	ug/l		100
95) Naphthalene	15.354	128	434944	55.099	ug/l		100
96) 1,2,3-Trichlorobenzene	15.549	180	149556	51.022	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

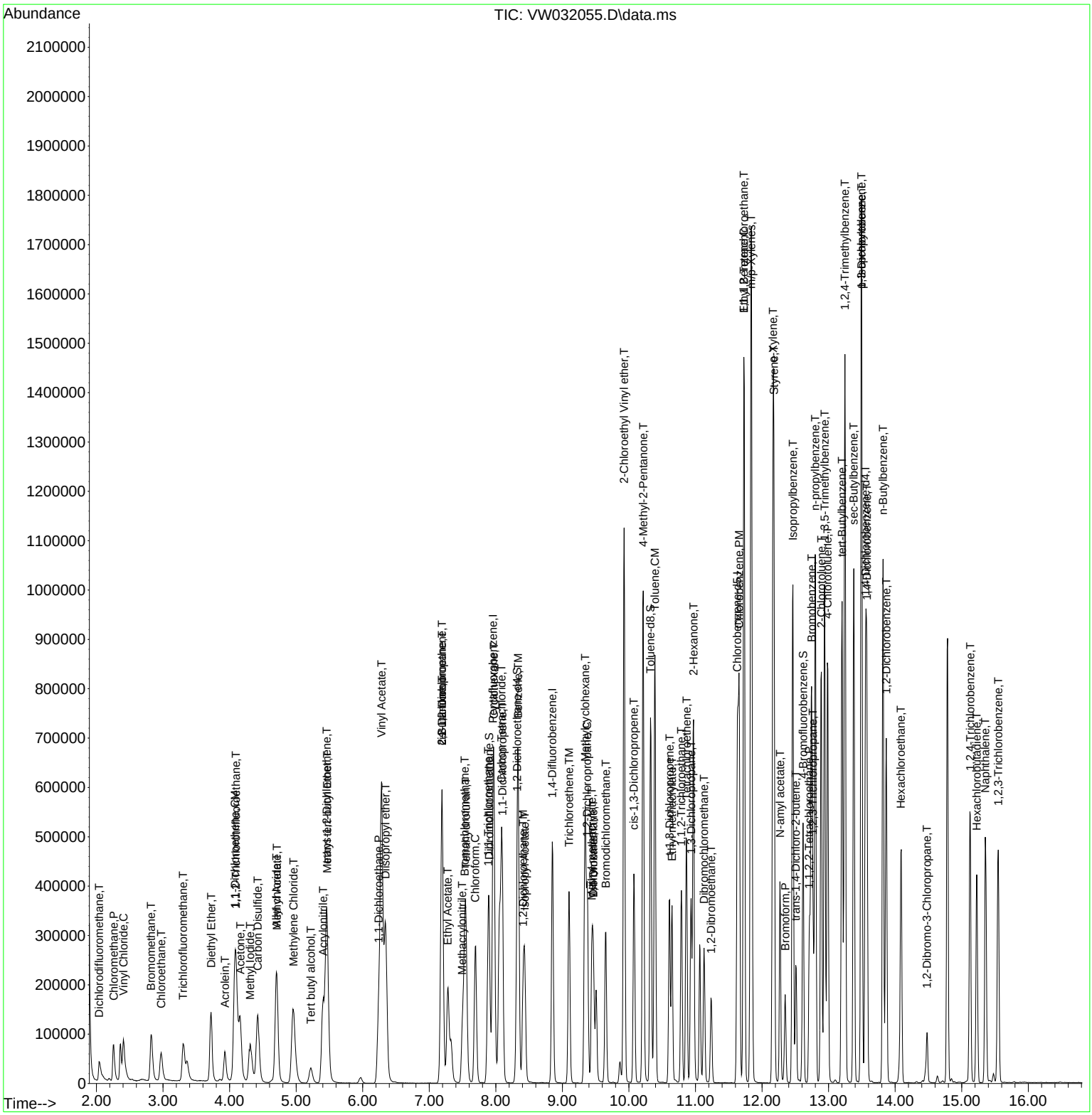
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

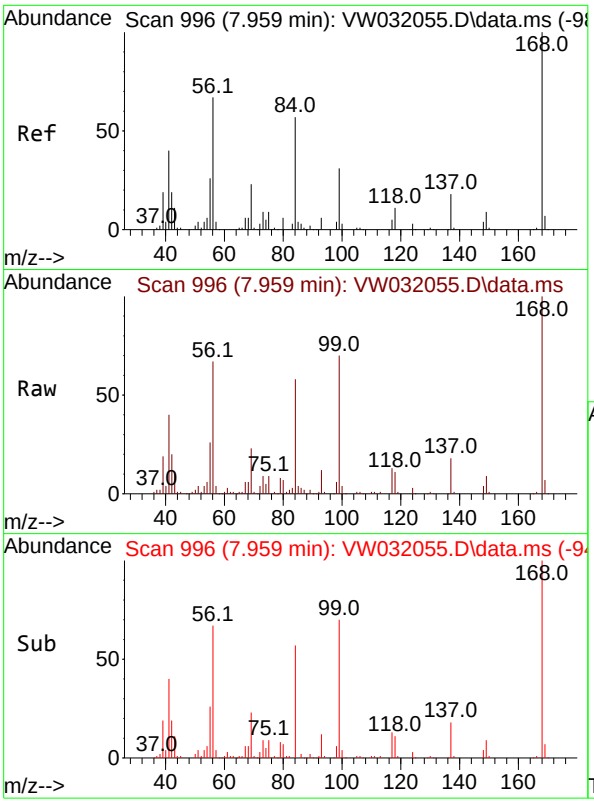
Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

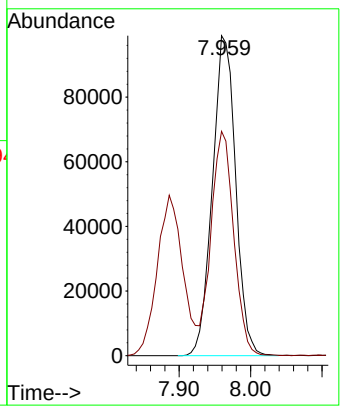




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:168 Resp: 22332

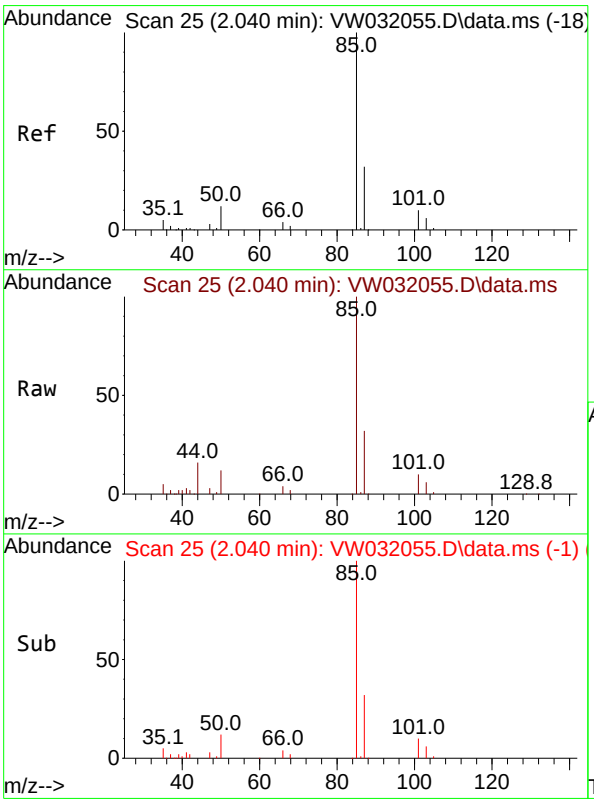
Ion	Ratio	Lower	Upper
168	100		
99	70.0	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

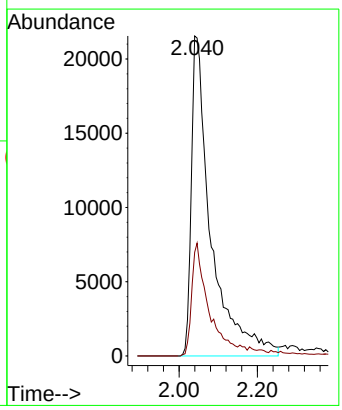
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

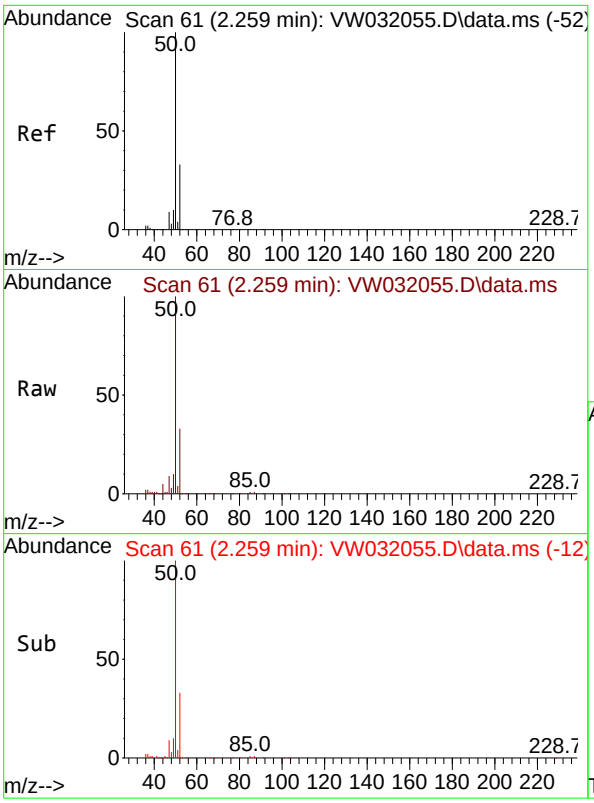


#2
Dichlorodifluoromethane
Concen: 47.015 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 85 Resp: 75096

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6

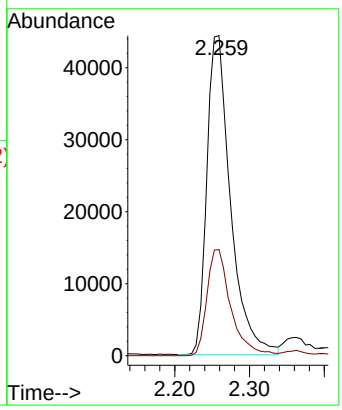




#3
Chloromethane
Concen: 45.418 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 50 Resp: 9771

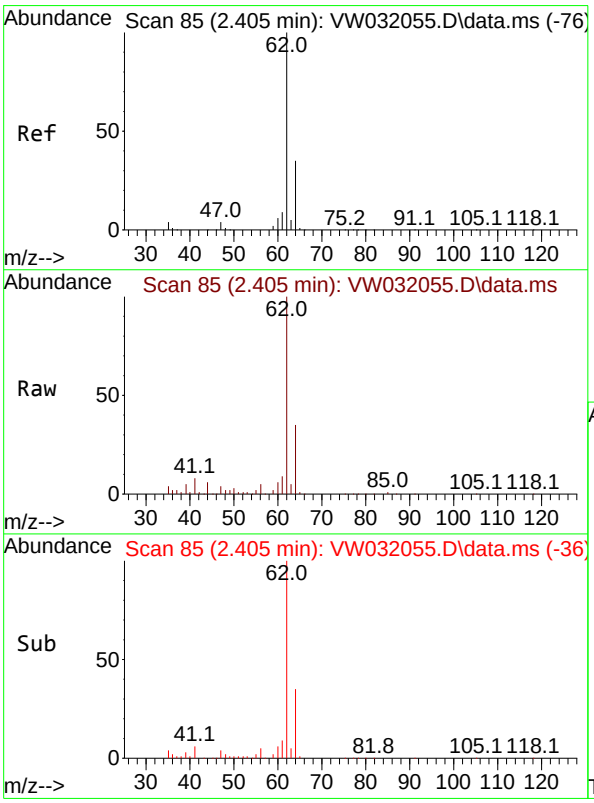
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

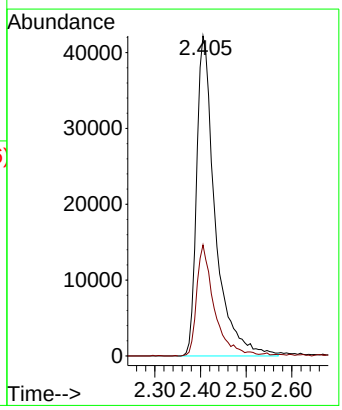
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

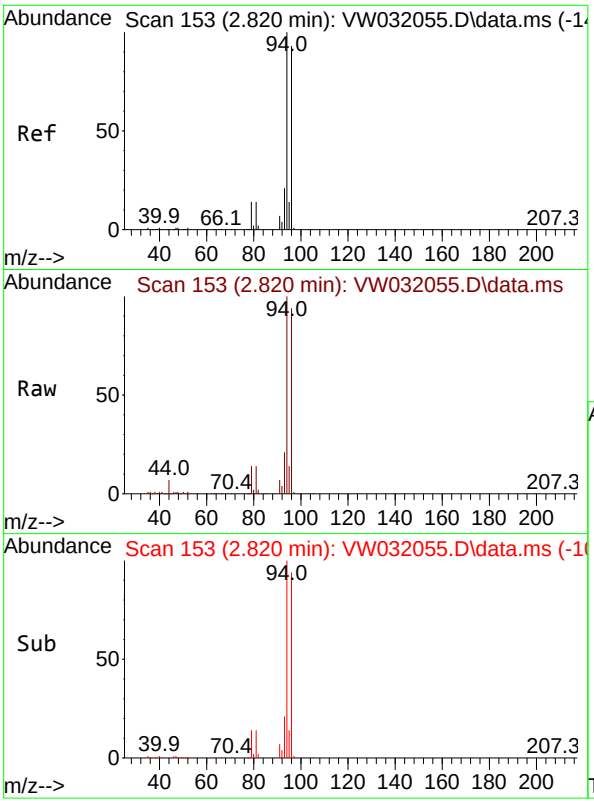


#4
Vinyl Chloride
Concen: 45.486 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 118378

Ion	Ratio	Lower	Upper
62	100		
64	34.7	27.8	41.6





#5
Bromomethane
Concen: 46.991 ug/l
RT: 2.820 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 94 Resp: 9174

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.7	112.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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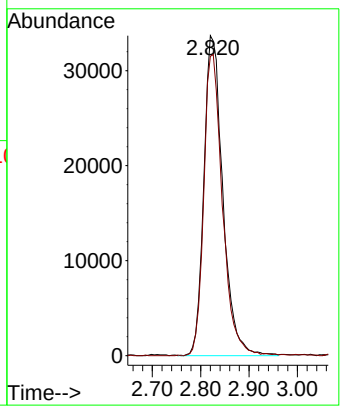
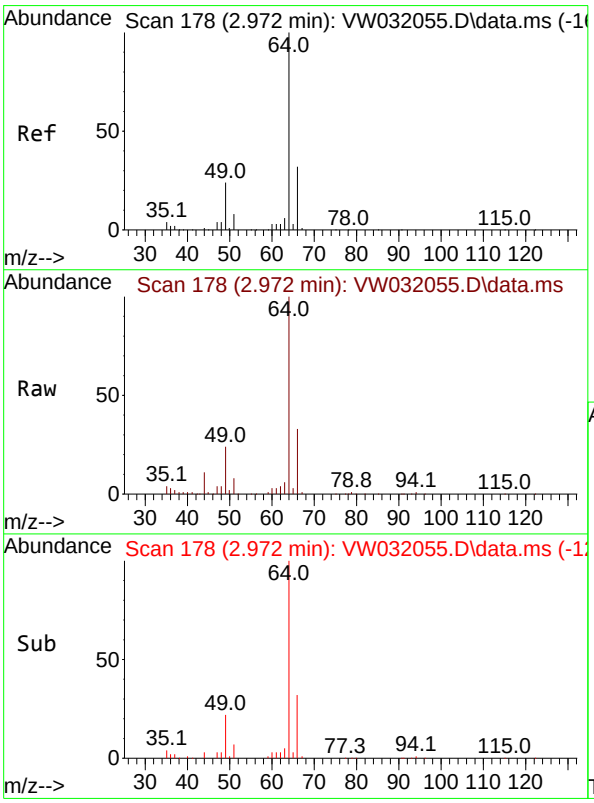
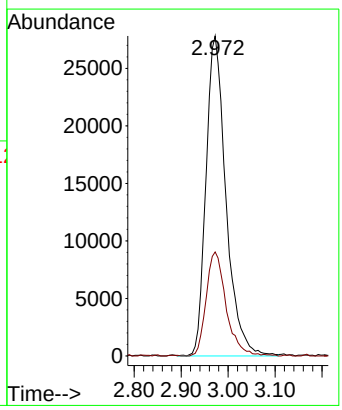


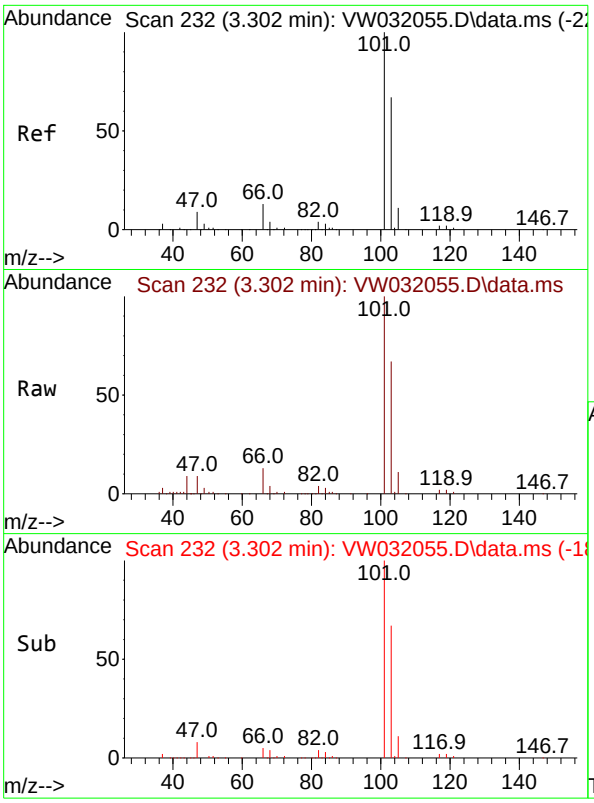


#6
Chloroethane
Concen: 47.641 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 64 Resp: 82045

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.0	39.0

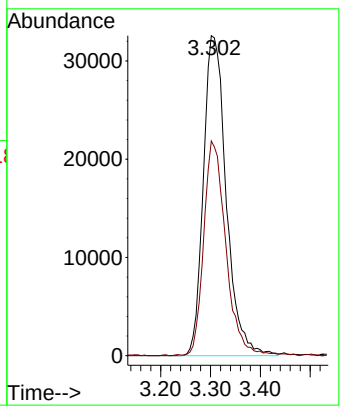




#7
Trichlorofluoromethane
Concen: 49.743 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:101 Resp: 10370

Ion	Ratio	Lower	Upper
101	100		
103	66.7	53.4	80.0



Instrument :
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ClientSampleId :
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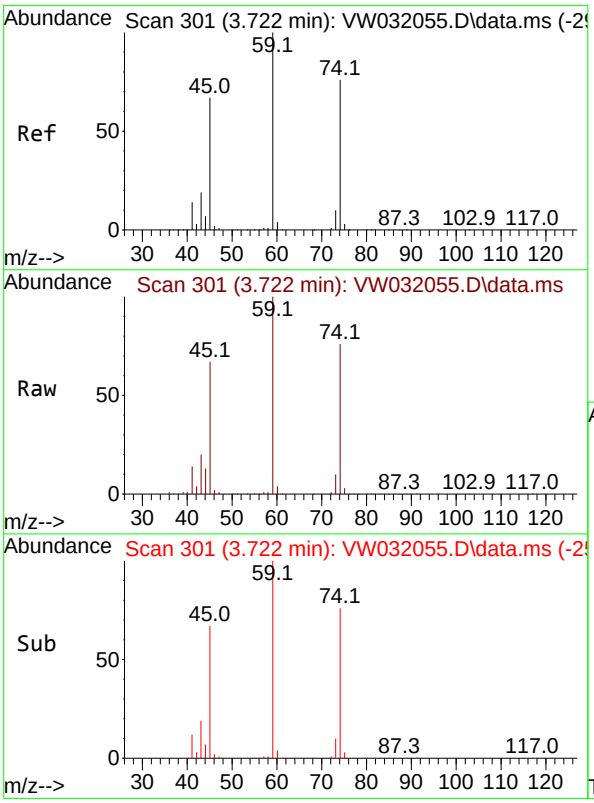
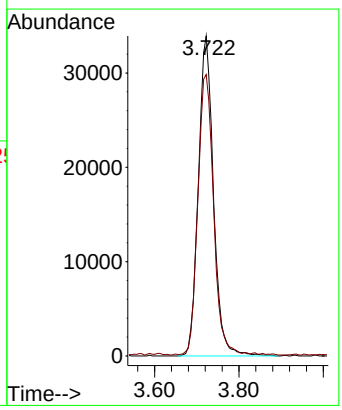
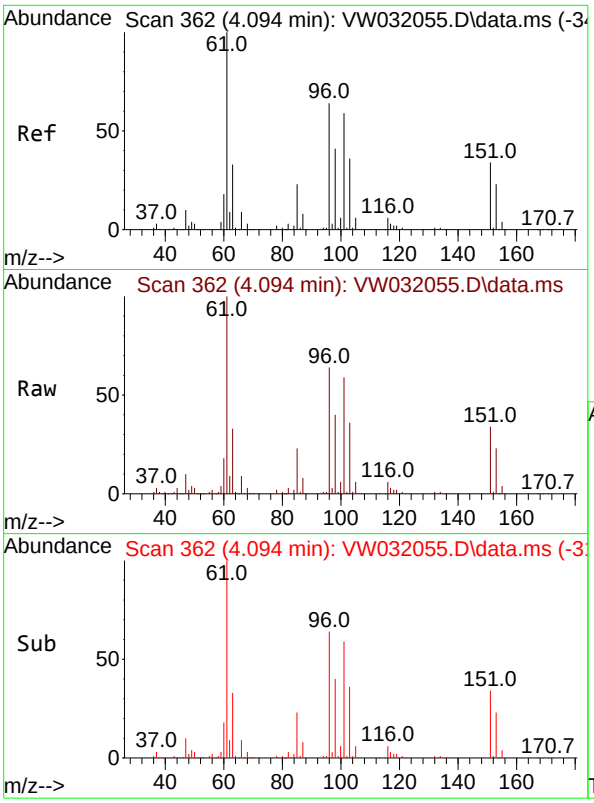


#8
Diethyl Ether
Concen: 49.624 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 74 Resp: 84764

Ion	Ratio	Lower	Upper
74	100		
45	90.8	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.968 ug/l
RT: 4.094 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:101 Resp: 11552

Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.9	52.3
151	70.3	56.2	84.4

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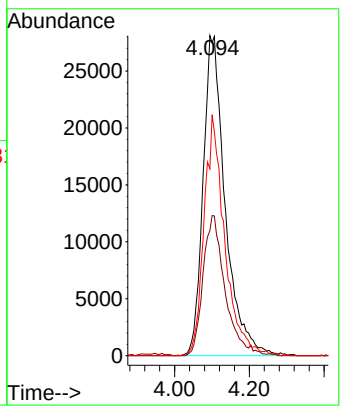
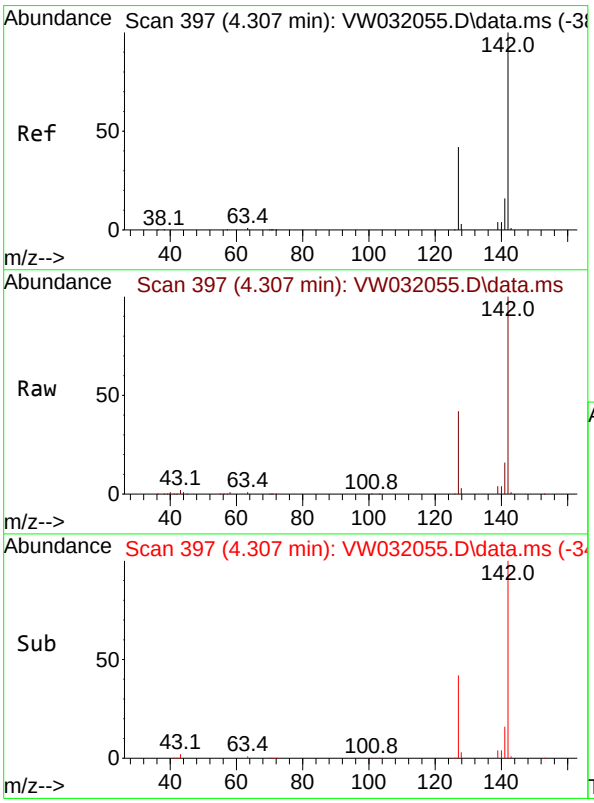
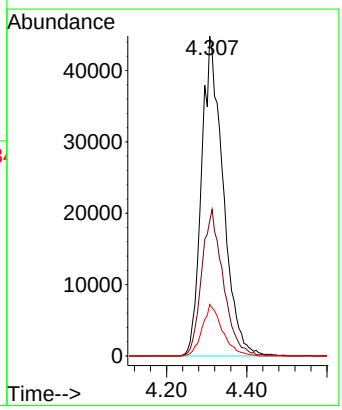


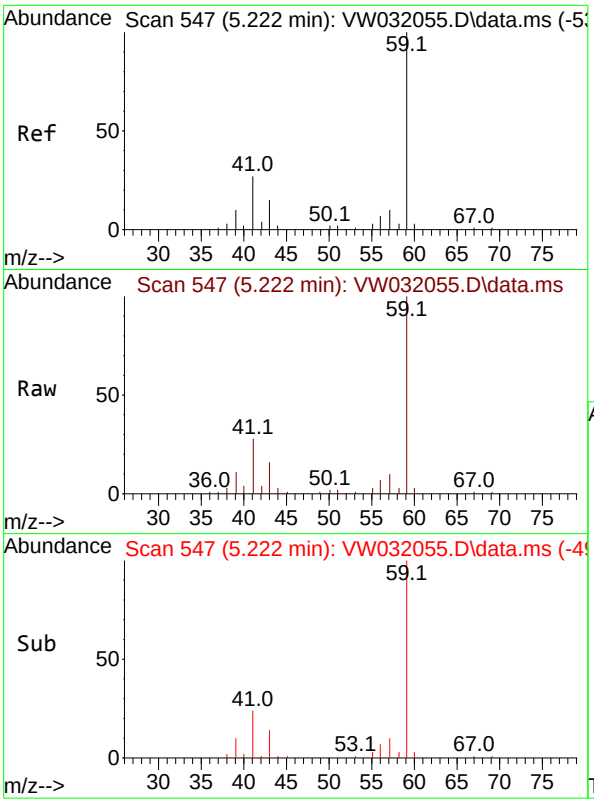


#10
Methyl Iodide
Concen: 47.909 ug/l
RT: 4.307 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:142 Resp: 167079

Ion	Ratio	Lower	Upper
142	100		
127	45.8	36.6	55.0
141	15.1	12.1	18.1





#11
Tert butyl alcohol
Concen: 269.294 ug/l
RT: 5.222 min Scan# 54
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 59 Resp: 5632

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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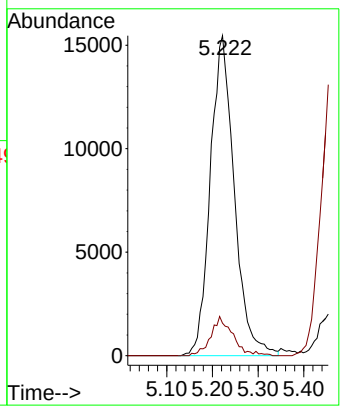
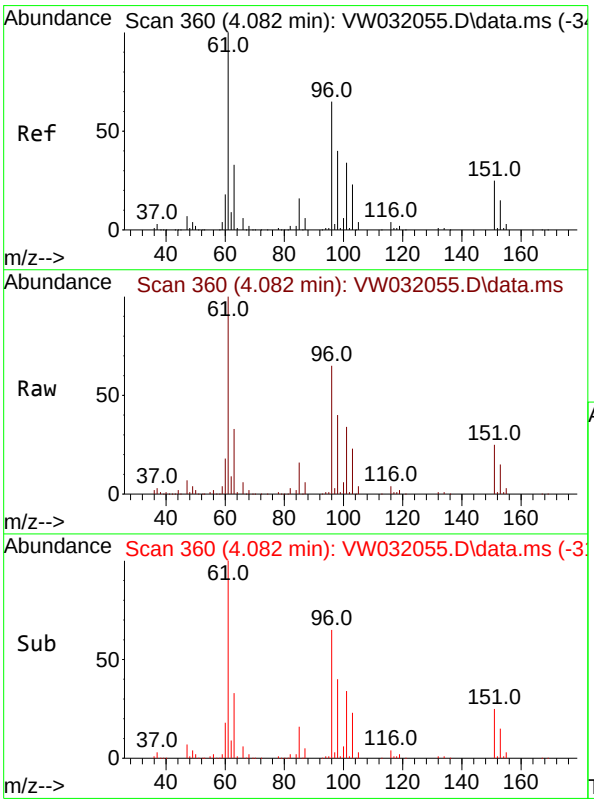
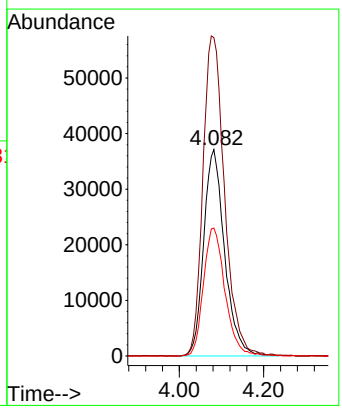


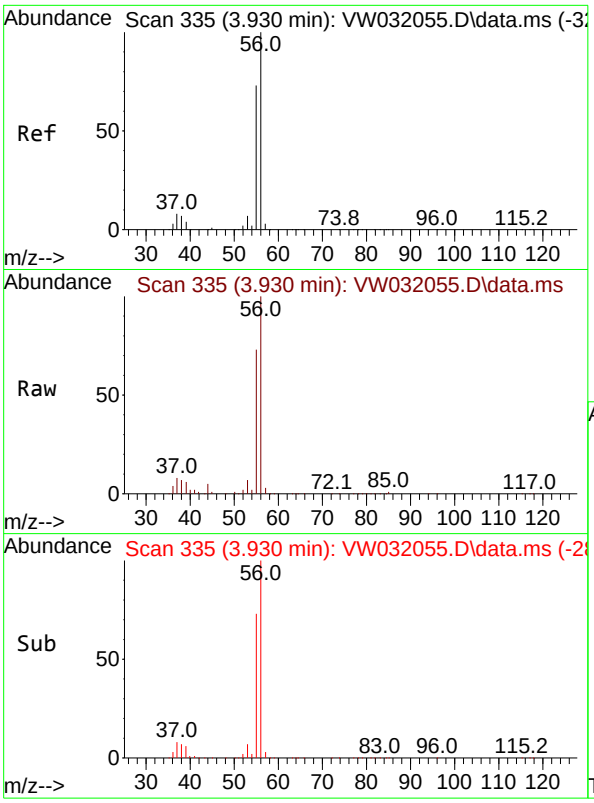


#12
1,1-Dichloroethene
Concen: 47.373 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 128304

Ion	Ratio	Lower	Upper
96	100		
61	154.3	123.4	185.2
98	61.9	49.5	74.3

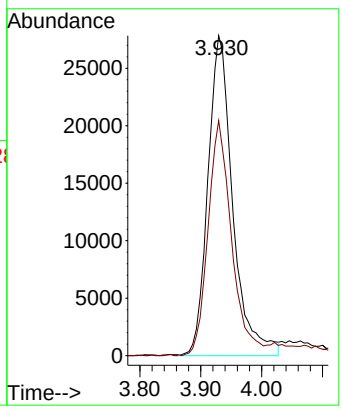




#13
Acrolein
Concen: 236.637 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 56 Resp: 7885

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.4	83.2



Instrument :
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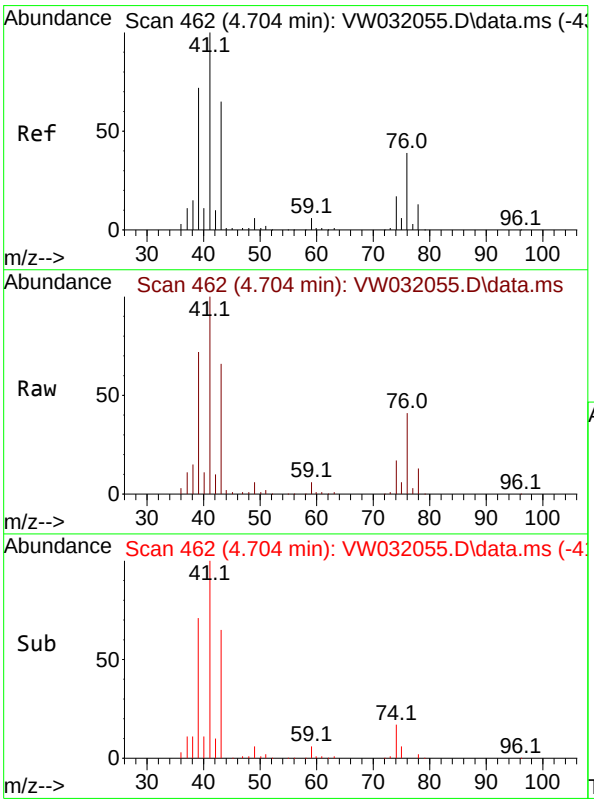
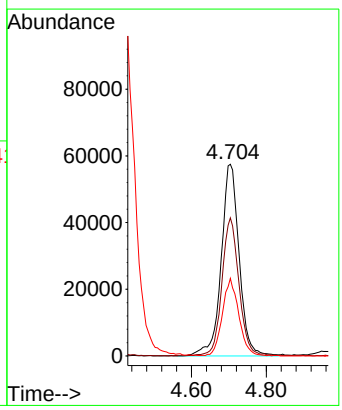
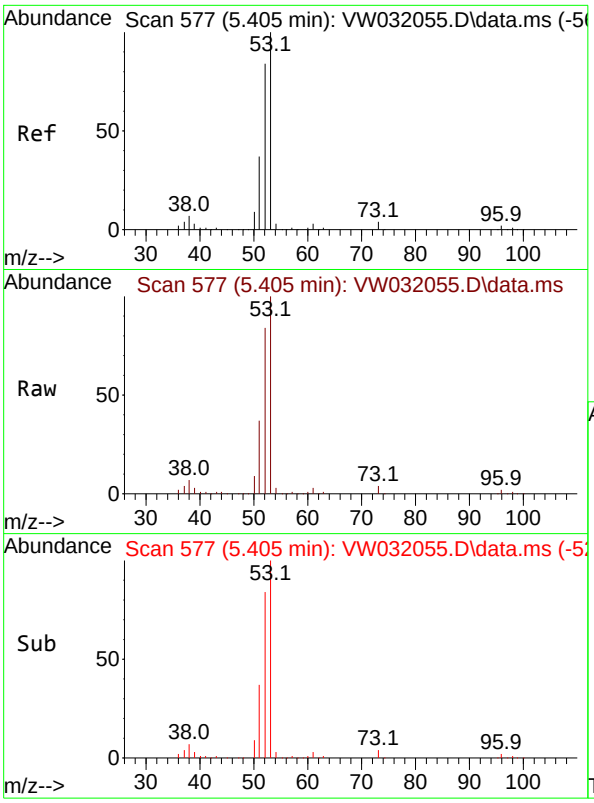


#14
Allyl chloride
Concen: 48.819 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 192434

Ion	Ratio	Lower	Upper
41	100		
39	68.1	54.5	81.7
76	36.6	29.3	43.9

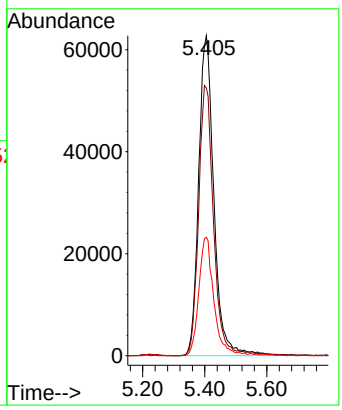




#15
Acrylonitrile
Concen: 262.963 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 53 Resp: 21394

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	36.5	29.2	43.8



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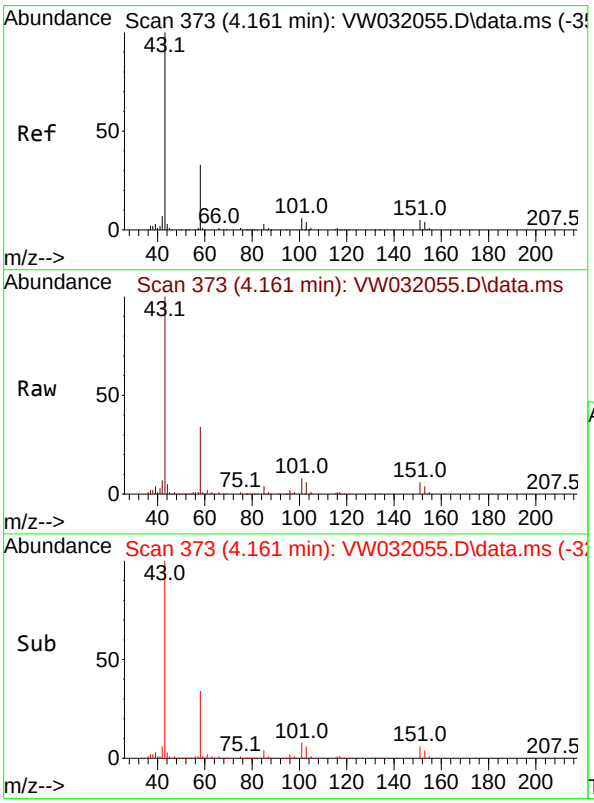
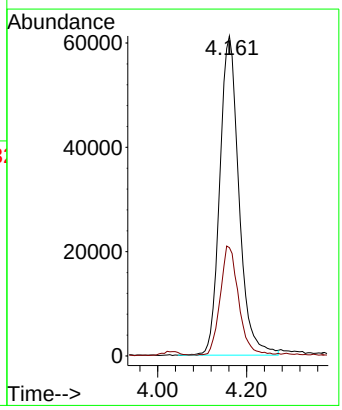
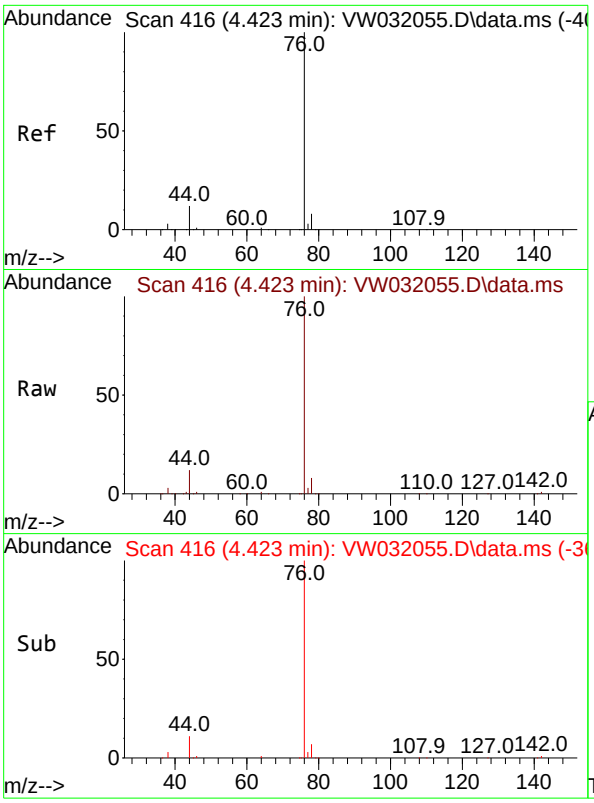


#16
Acetone
Concen: 244.127 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 182559

Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.6	39.8





#17
Carbon Disulfide
Concen: 47.836 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 76 Resp: 34775

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.4	9.6

Instrument :
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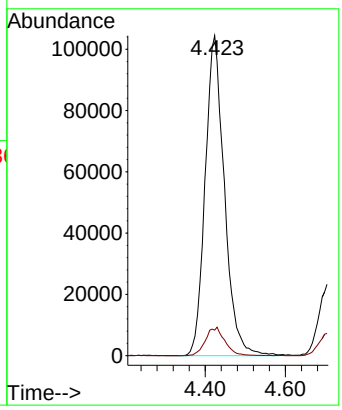
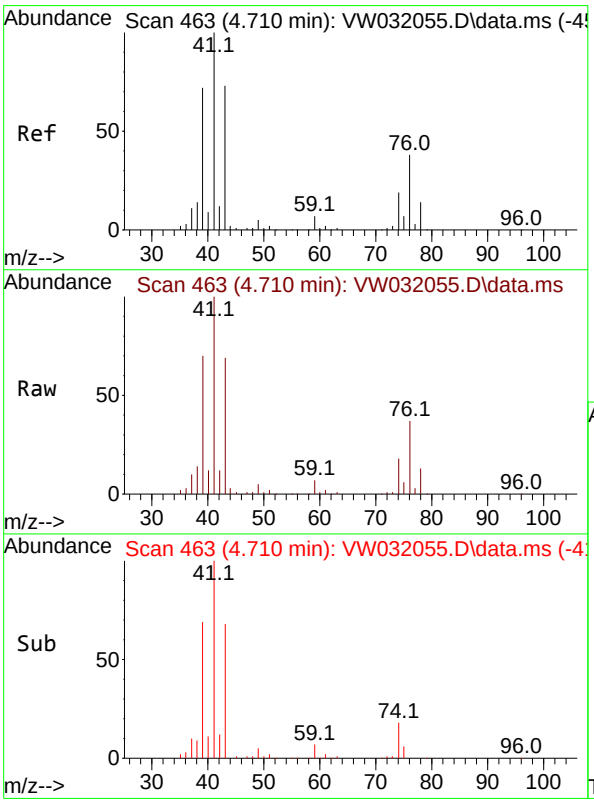
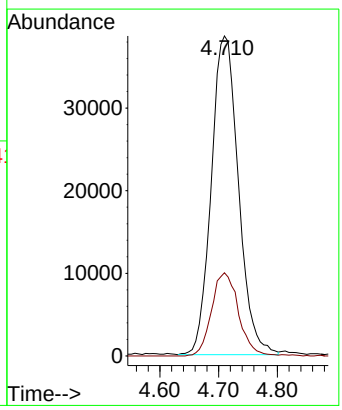


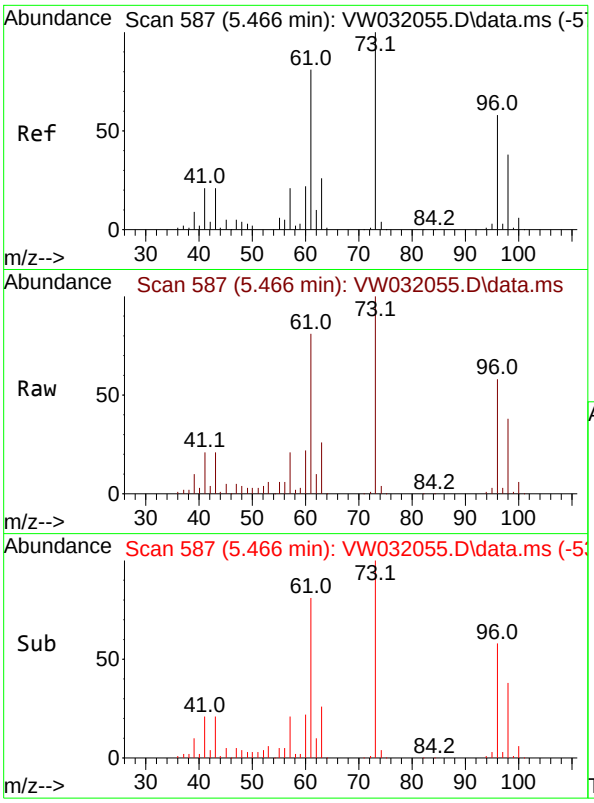


#18
Methyl Acetate
Concen: 52.361 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 123902

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.6	31.0





#19
Methyl tert-butyl Ether
Concen: 51.560 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 73 Resp: 24604

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8

Instrument :
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ClientSampleId :
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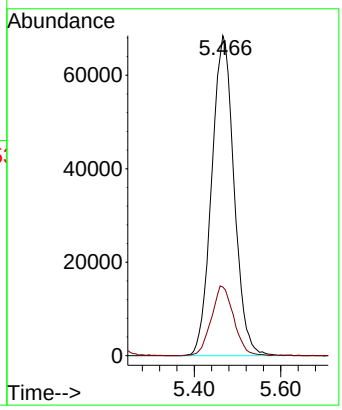
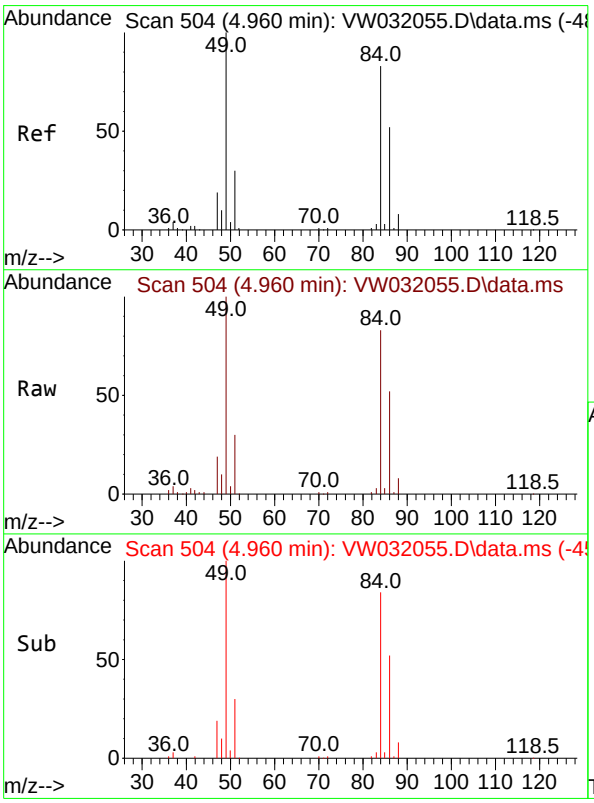
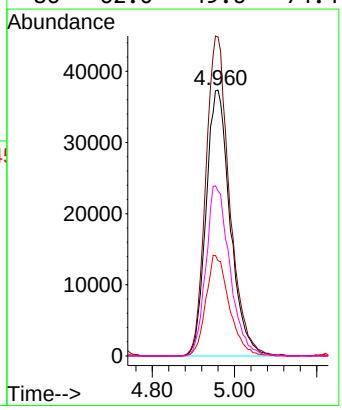


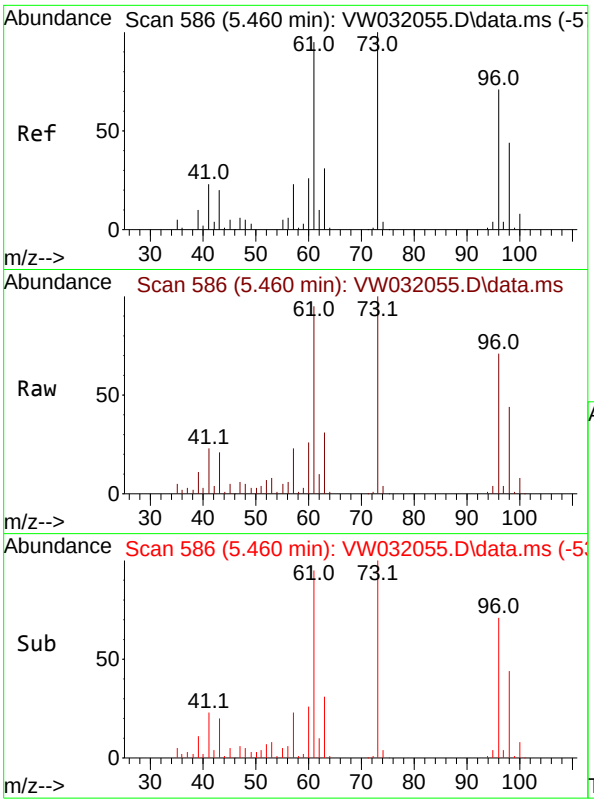


#20
Methylene Chloride
Concen: 44.016 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 84 Resp: 152186

Ion	Ratio	Lower	Upper
84	100		
49	119.9	95.9	143.9
51	35.8	28.6	43.0
86	62.0	49.6	74.4

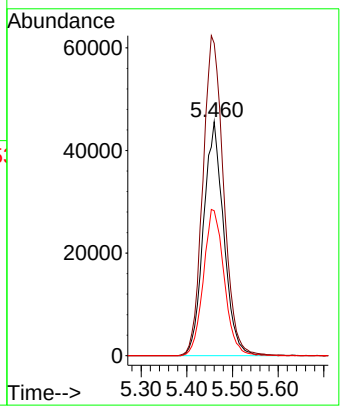




#21
trans-1,2-Dichloroethene
Concen: 48.707 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 13999

Ion	Ratio	Lower	Upper
96	100		
61	133.5	106.8	160.2
98	62.0	49.6	74.4



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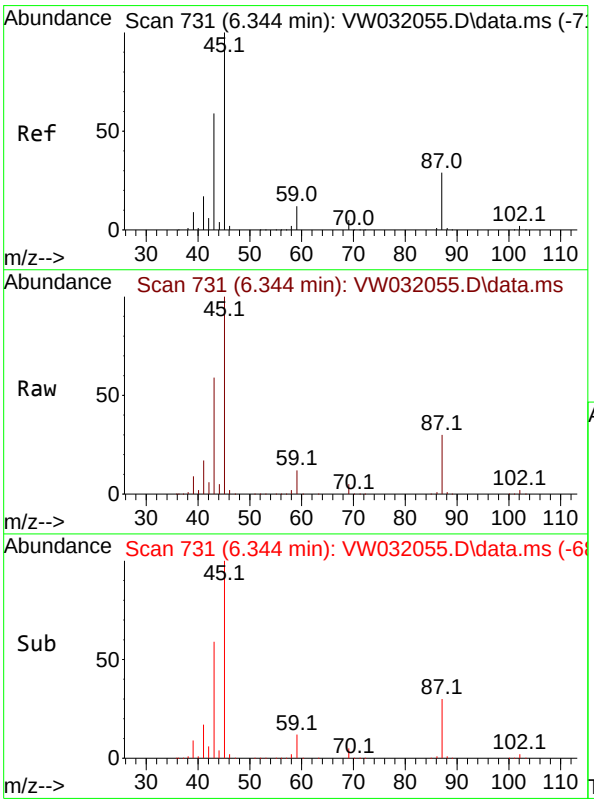
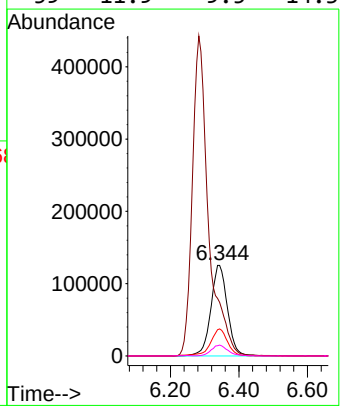
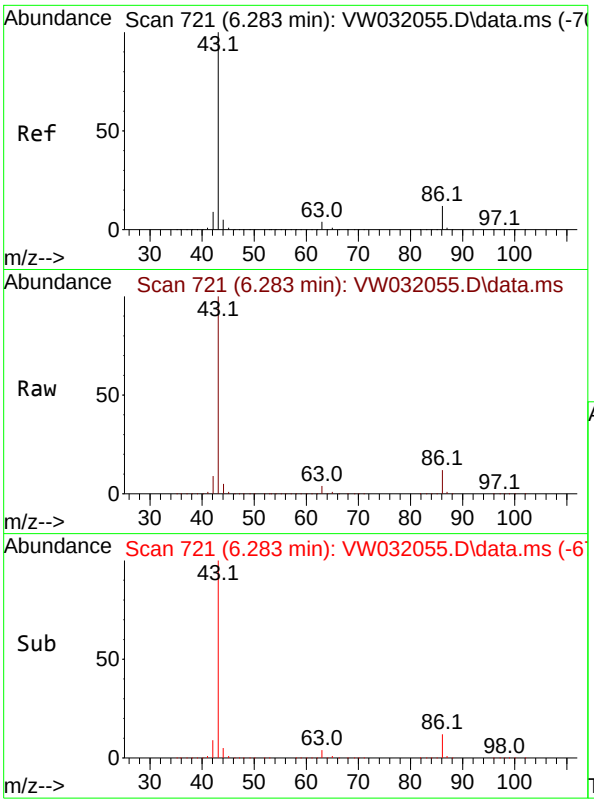


#22
Diisopropyl ether
Concen: 50.751 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 45 Resp: 421731

Ion	Ratio	Lower	Upper
45	100		
43	58.7	47.0	70.4
87	29.8	23.8	35.8
59	11.9	9.5	14.3





#23
Vinyl Acetate
Concen: 265.873 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 145055

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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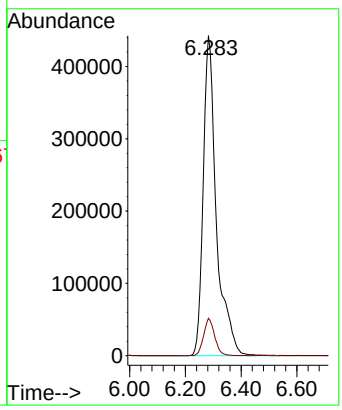
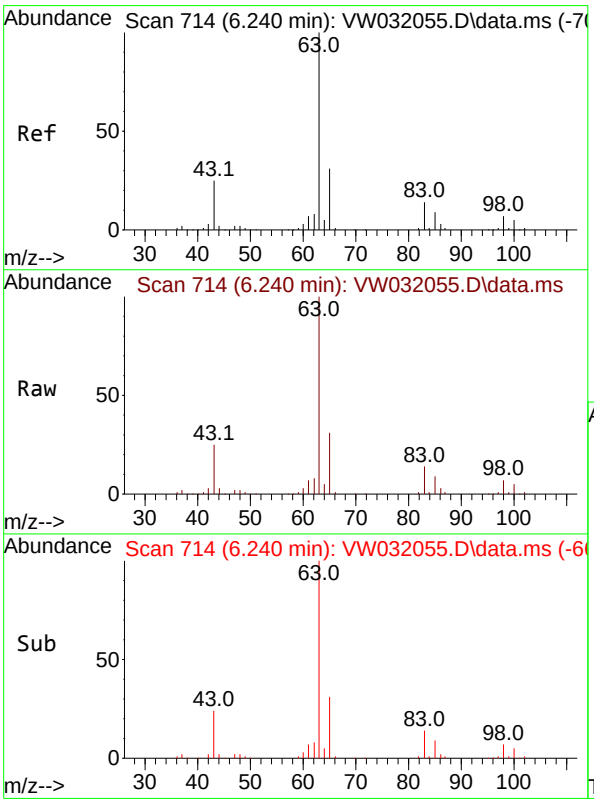
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

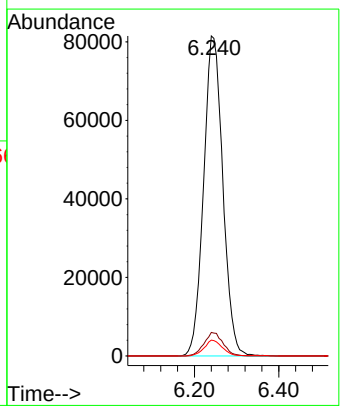


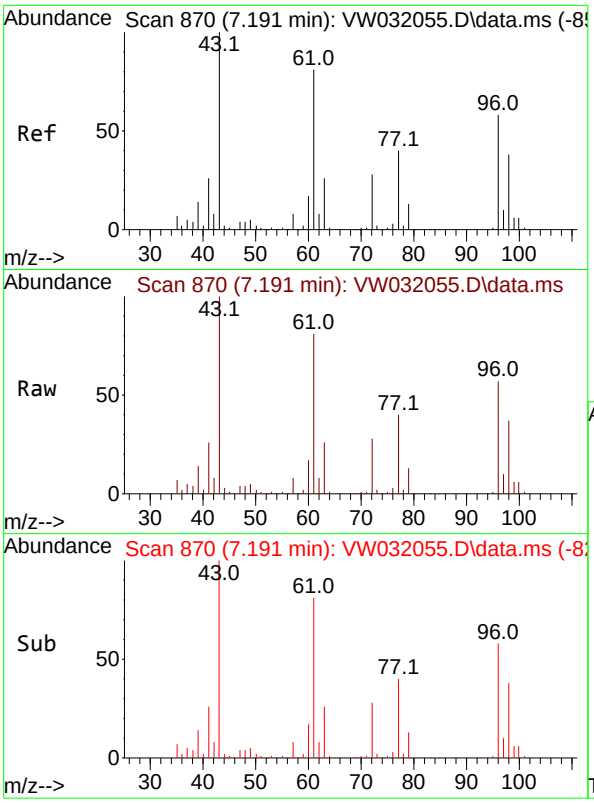


#24
1,1-Dichloroethane
Concen: 48.646 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 258279

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.7	11.1
100	4.9	2.5	7.4

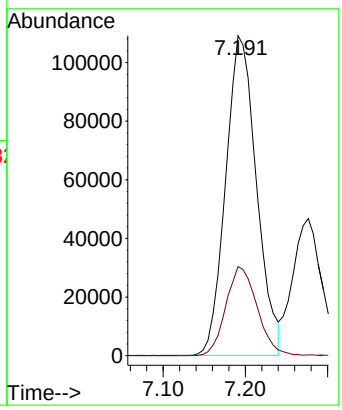




#25
2-Butanone
Concen: 267.883 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 28471

Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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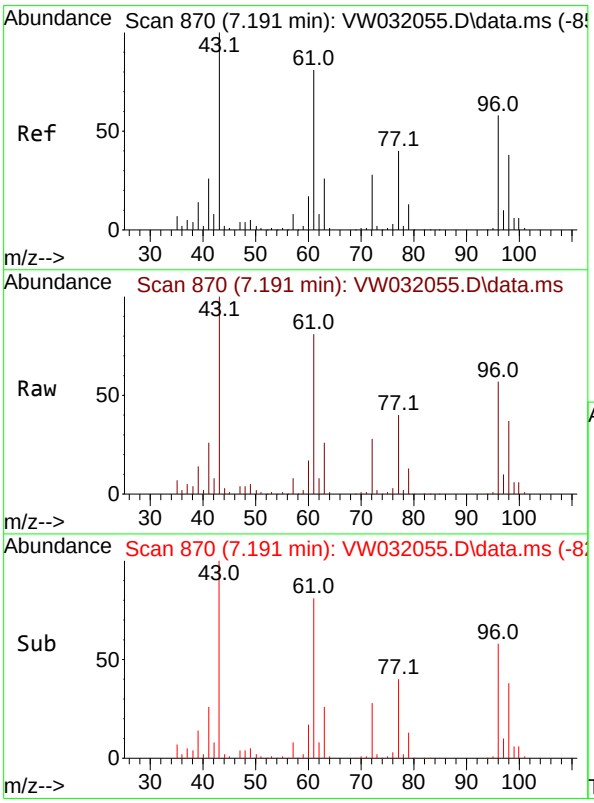
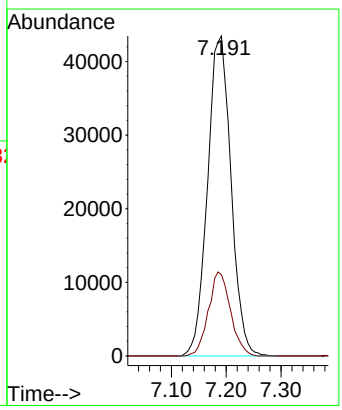
Supervised By :Semsettin Yesilyurt 08/12/2025

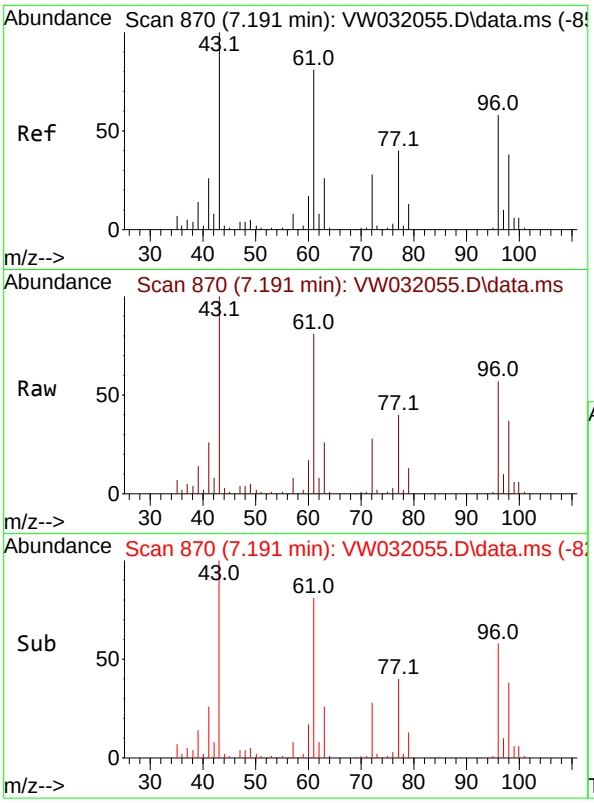


#26
2,2-Dichloropropane
Concen: 48.578 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 77 Resp: 129390

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.3	36.9

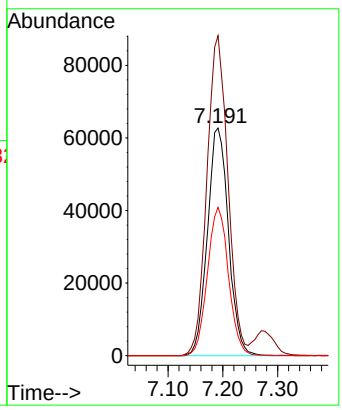




#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 16724

Ion	Ratio	Lower	Upper
96	100		
61	140.6	0.0	281.2
98	65.4	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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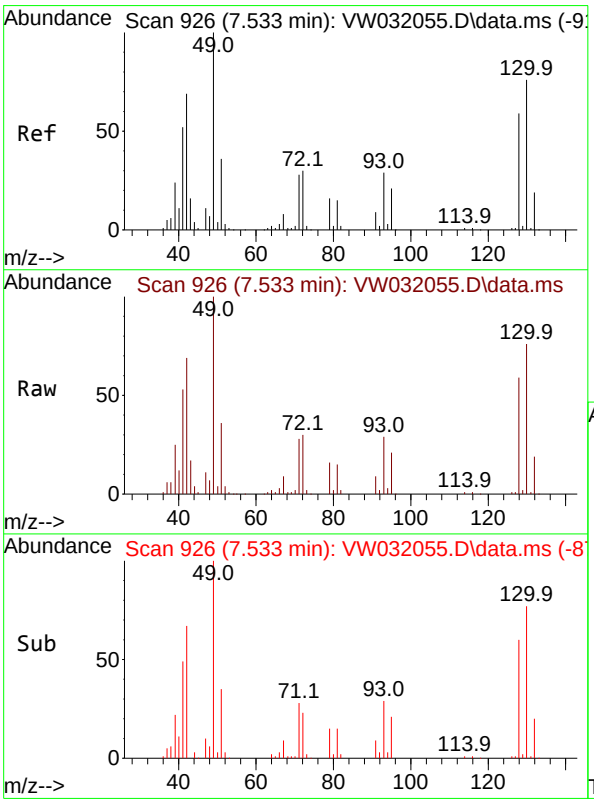
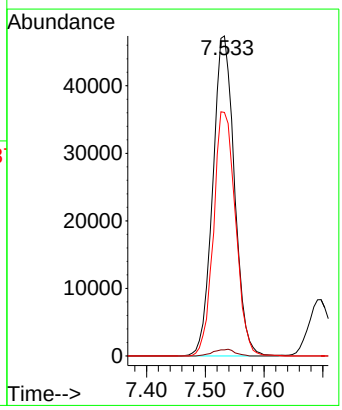
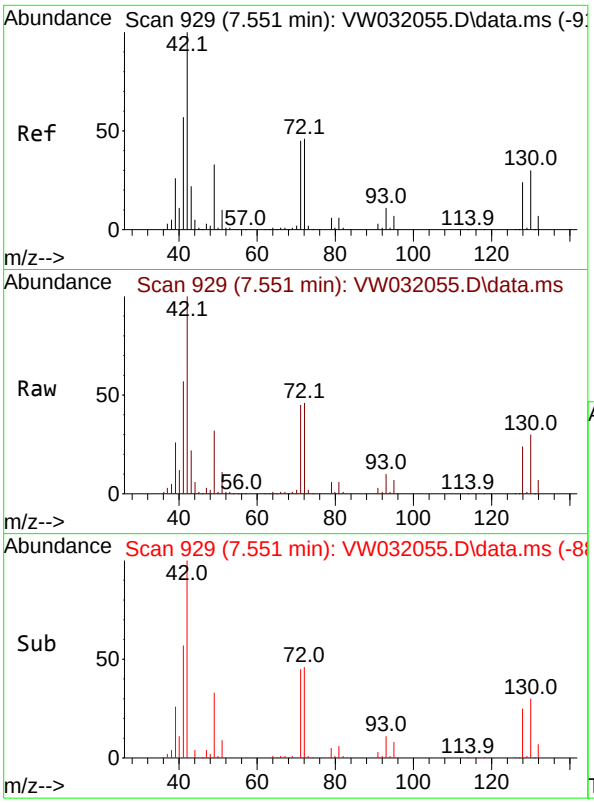


#28
Bromochloromethane
Concen: 50.191 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 49 Resp: 121266

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.4	61.9	92.9

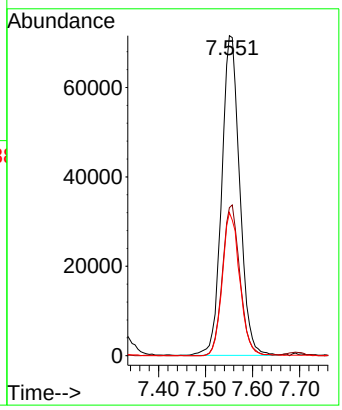




#29
Tetrahydrofuran
Concen: 272.100 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 42 Resp: 19071

Ion	Ratio	Lower	Upper
42	100		
72	45.8	36.6	55.0
71	43.4	34.7	52.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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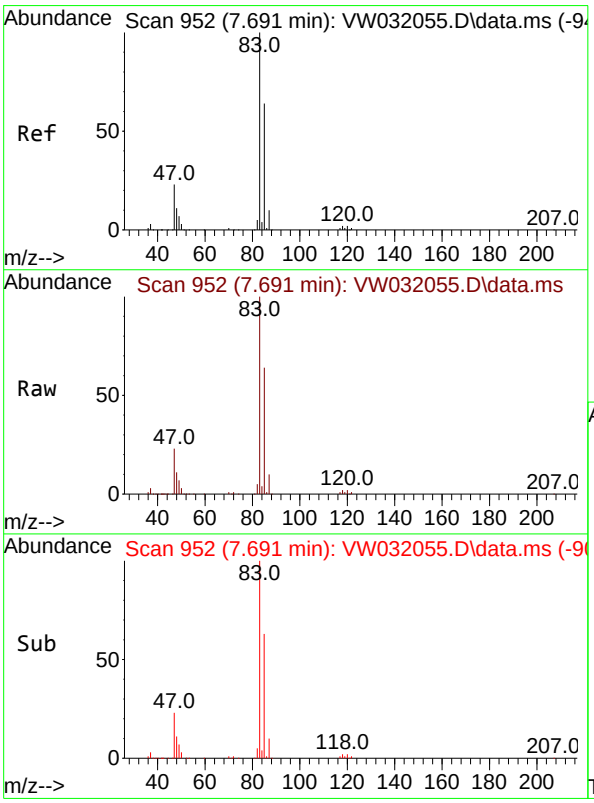
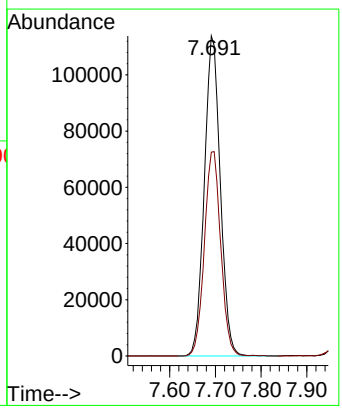
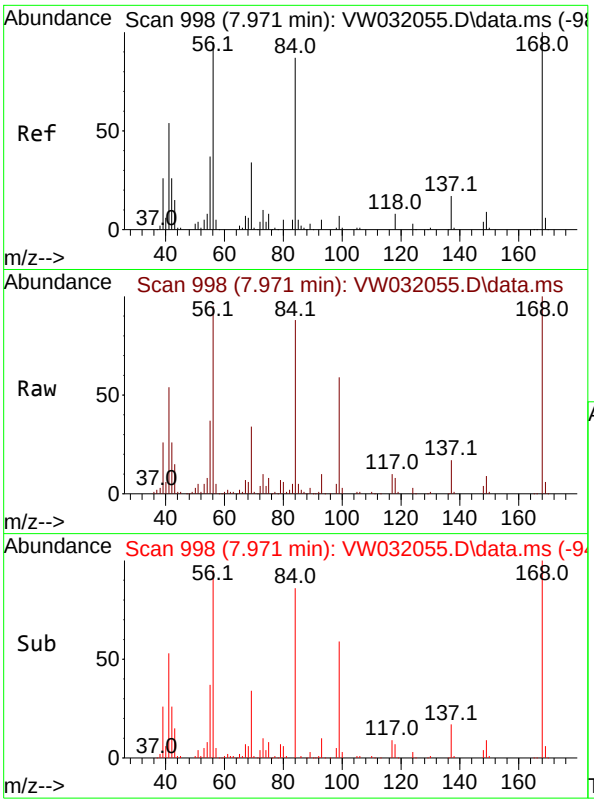


#30
Chloroform
Concen: 49.018 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 275905

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4

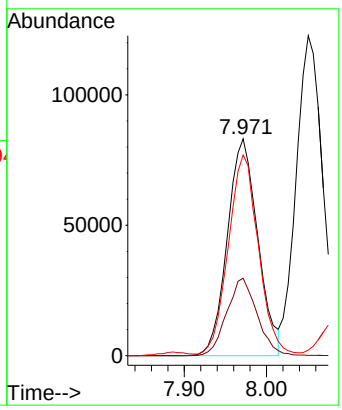




#31
Cyclohexane
Concen: 46.622 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 56 Resp: 21459

Ion	Ratio	Lower	Upper
56	100		
69	35.7	28.6	42.8
84	91.2	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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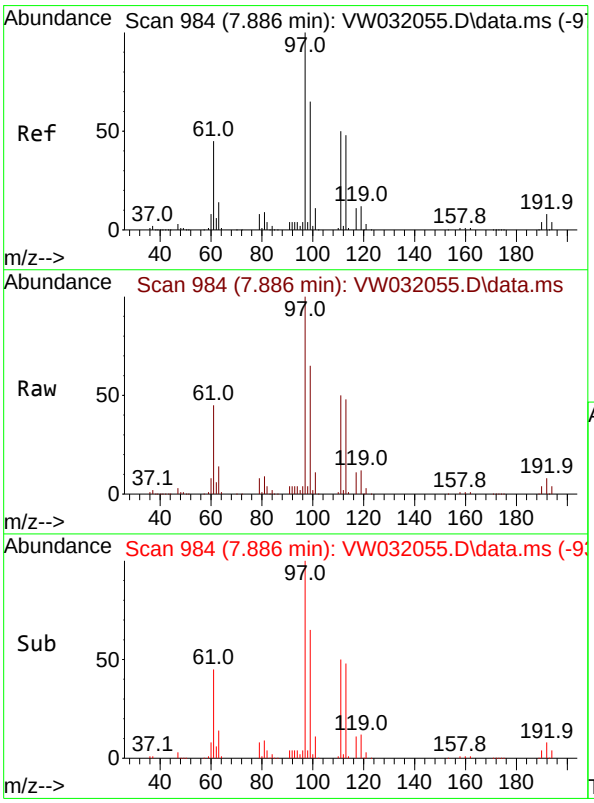
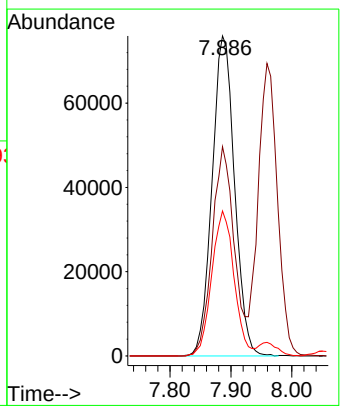
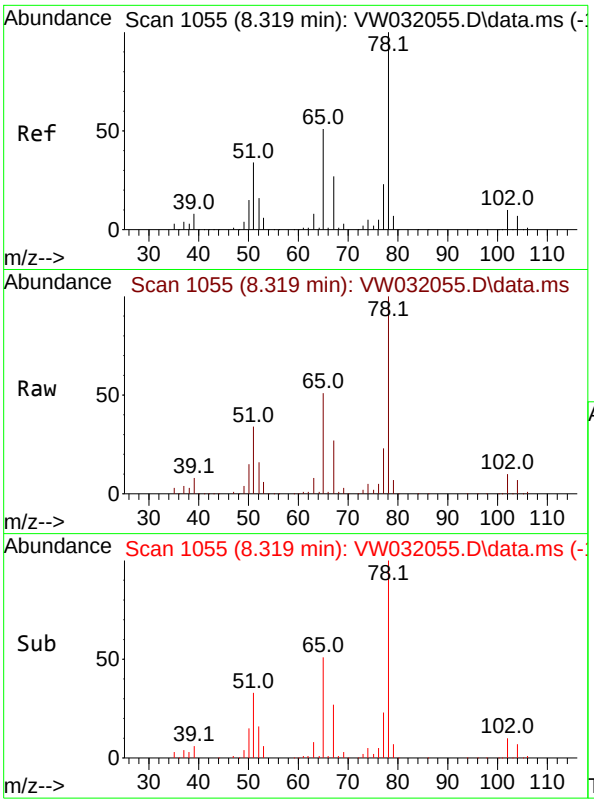


#32
1,1,1-Trichloroethane
Concen: 47.617 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 97 Resp: 194676

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.8
61	44.9	35.9	53.9

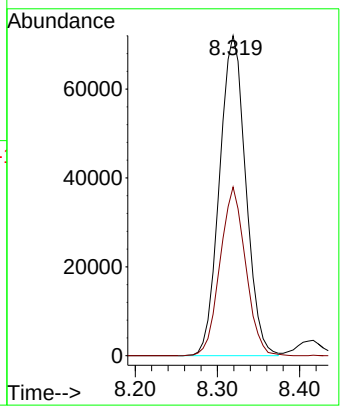




#33
1,2-Dichloroethane-d4
Concen: 49.529 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 65 Resp: 15997

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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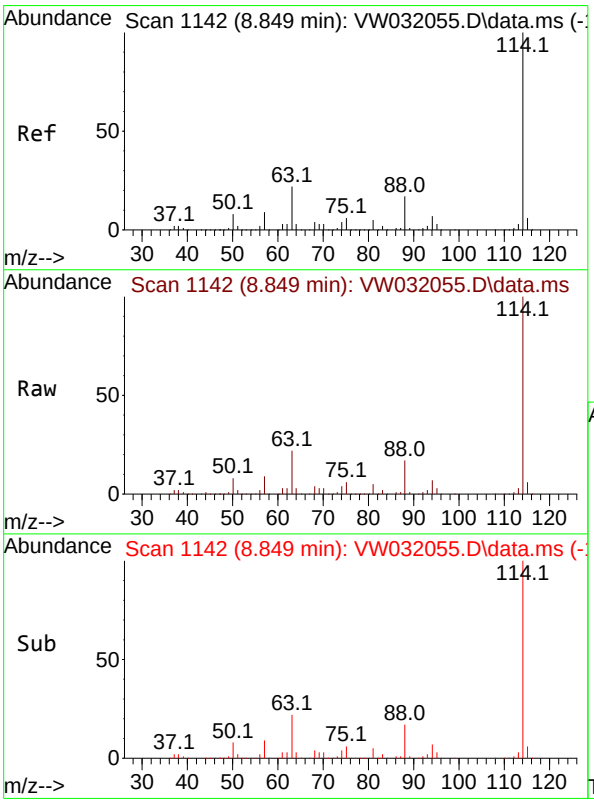
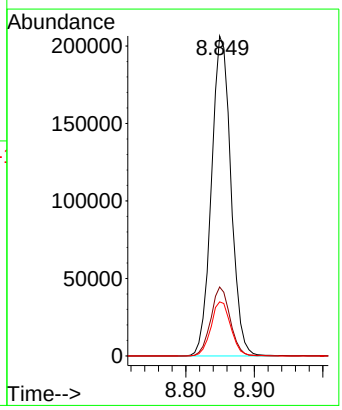
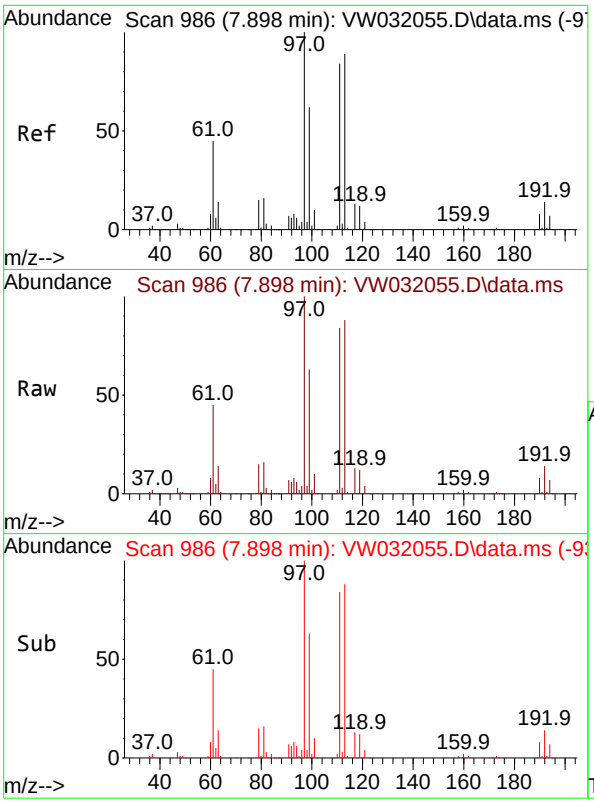


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:114 Resp: 406973

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.0
88	16.9	0.0	33.8





#35
Dibromofluoromethane
Concen: 50.279 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 13219

Ion	Ratio	Lower	Upper
113	100		
111	100.1	80.1	120.1
192	16.4	13.1	19.7

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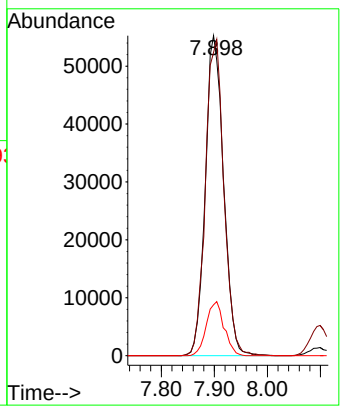
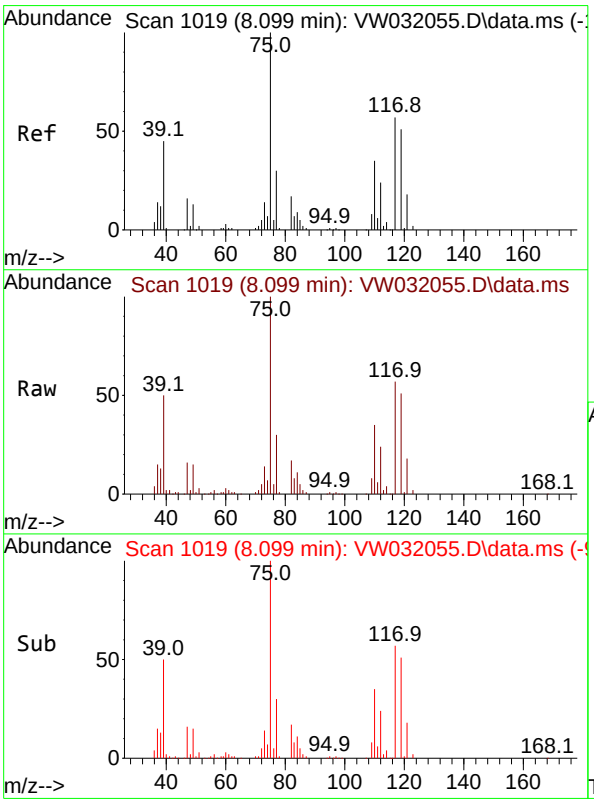
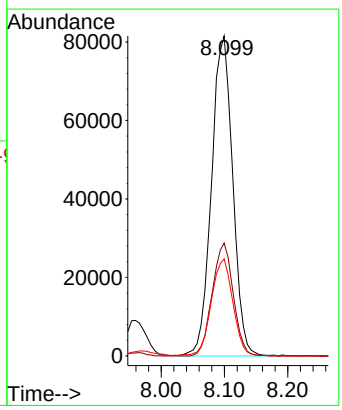


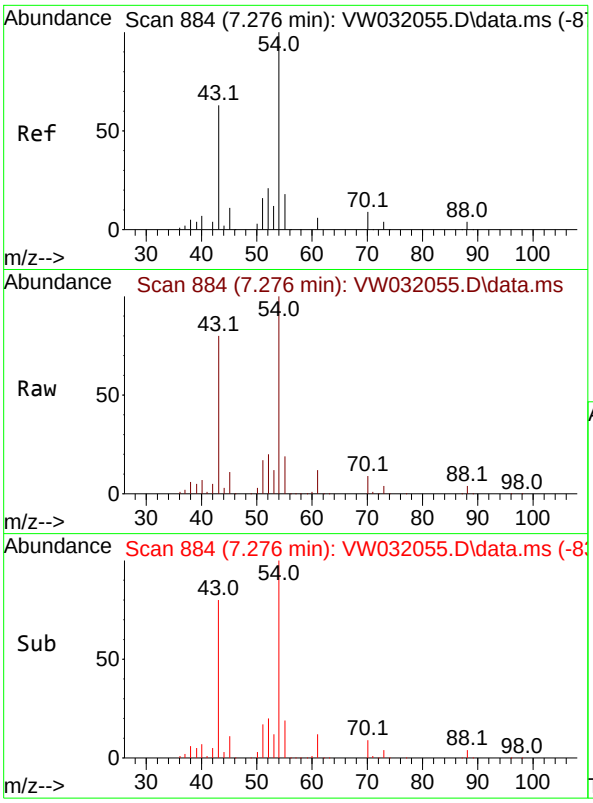


#36
1,1-Dichloropropene
Concen: 51.274 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 190046

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.4	52.2
77	30.9	24.7	37.1





#37
Ethyl Acetate
Concen: 54.829 ug/l
RT: 7.276 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 11968

Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.8	17.6
70	11.7	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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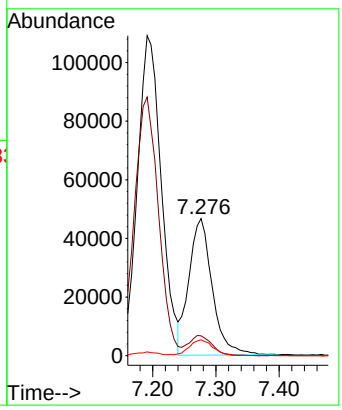
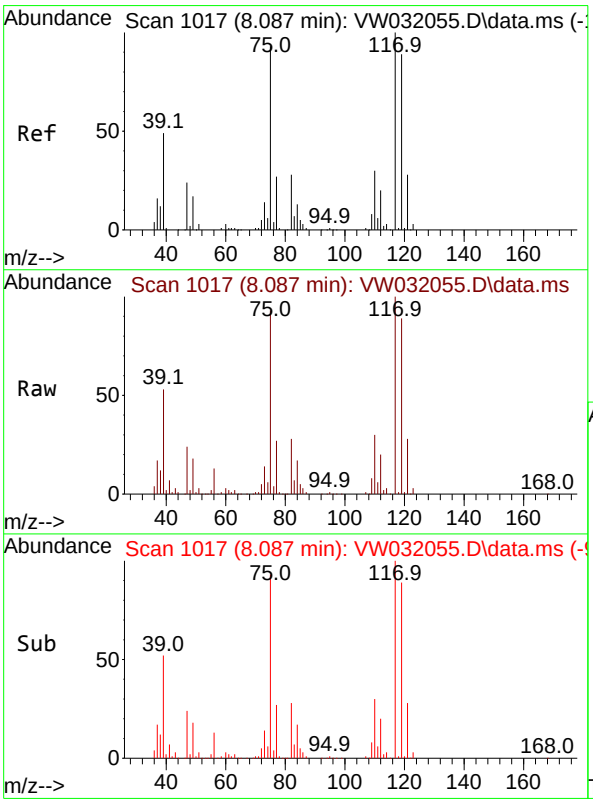
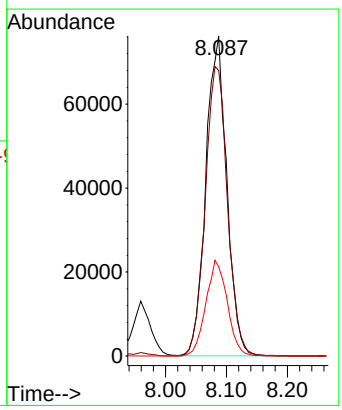


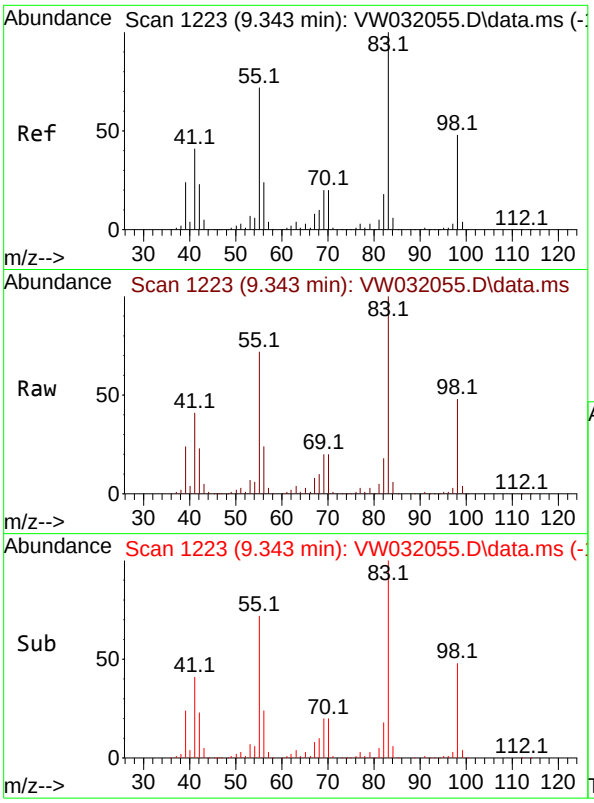


#38
Carbon Tetrachloride
Concen: 51.000 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 182422

Ion	Ratio	Lower	Upper
117	100		
119	89.3	71.4	107.2
121	27.9	22.3	33.5





#39
Methylcyclohexane
Concen: 52.093 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 23534

Ion	Ratio	Lower	Upper
83	100		
55	72.4	57.9	86.9
98	47.9	38.3	57.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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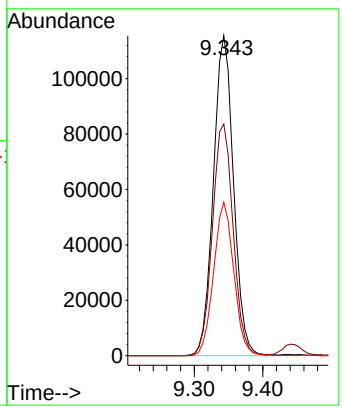
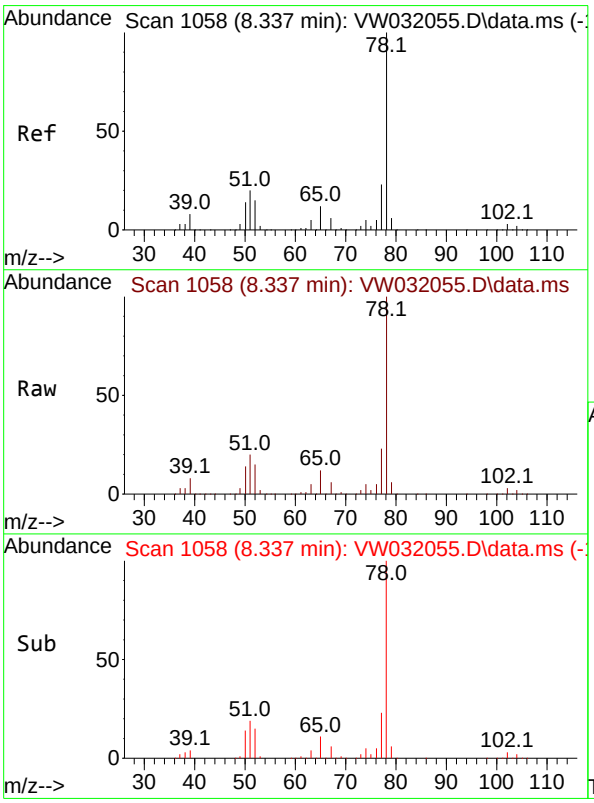
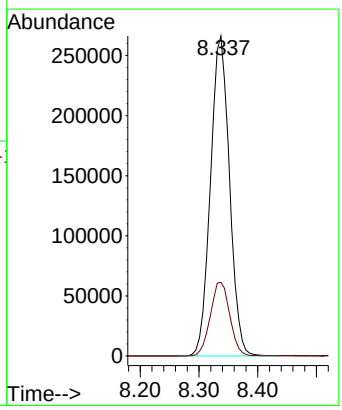


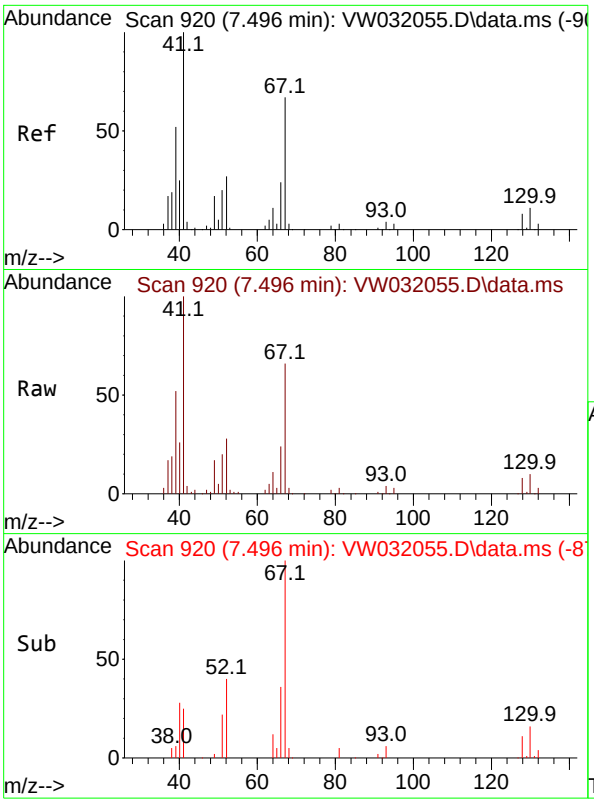


#40
Benzene
Concen: 51.883 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 78 Resp: 597760

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.4	27.6

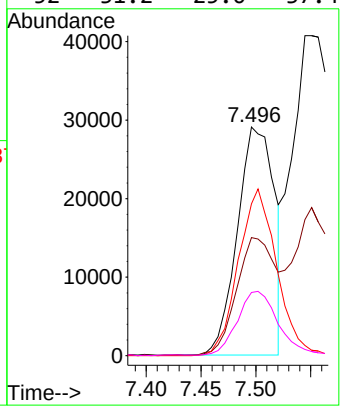




#41
Methacrylonitrile
Concen: 55.039 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 6813

Ion	Ratio	Lower	Upper
41	100		
39	53.2	42.6	63.8
67	76.2	61.0	91.4
52	31.2	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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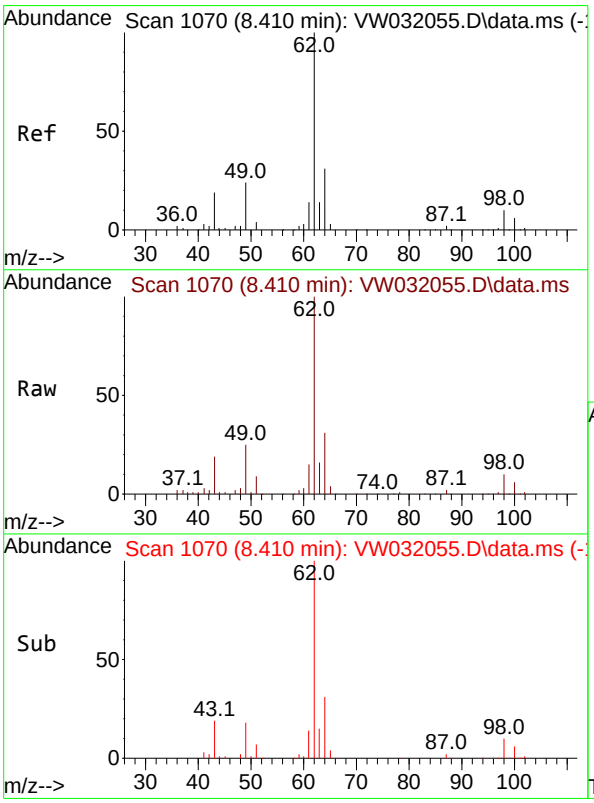
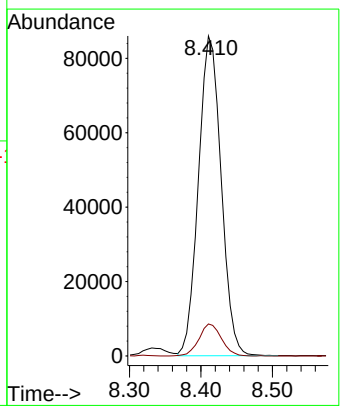
Supervised By :Semsettin Yesilyurt 08/12/2025

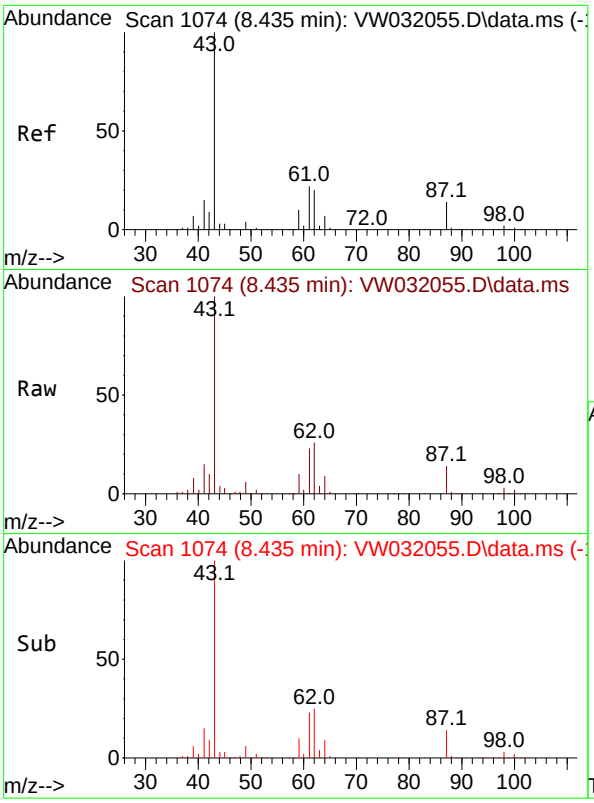


#42
1,2-Dichloroethane
Concen: 51.471 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 189755

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8

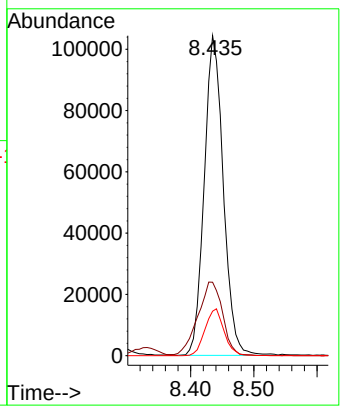




#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 21906

Ion	Ratio	Lower	Upper
43	100		
61	29.8	23.8	35.8
87	14.6	11.7	17.5



Instrument :
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ClientSampleId :
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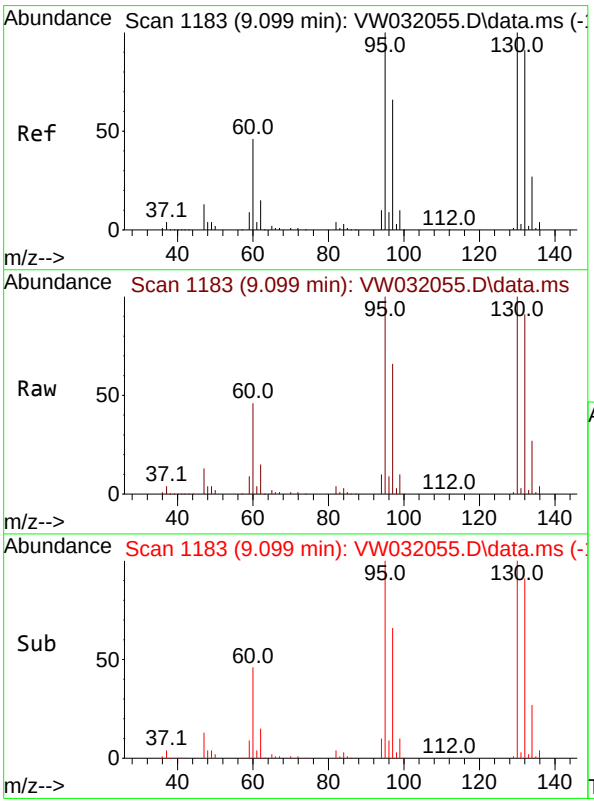
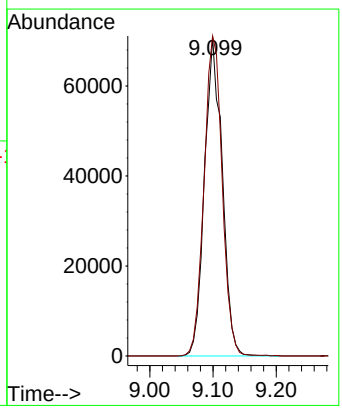
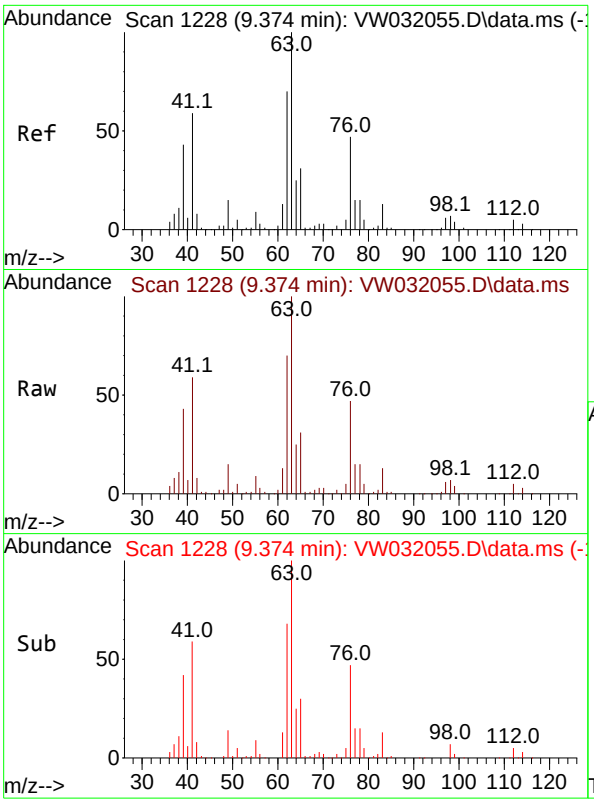


#44
Trichloroethene
Concen: 50.264 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:130 Resp: 137910

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	200.6

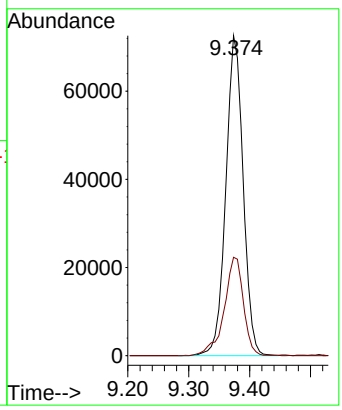




#45
1,2-Dichloropropane
Concen: 51.537 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 14344

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
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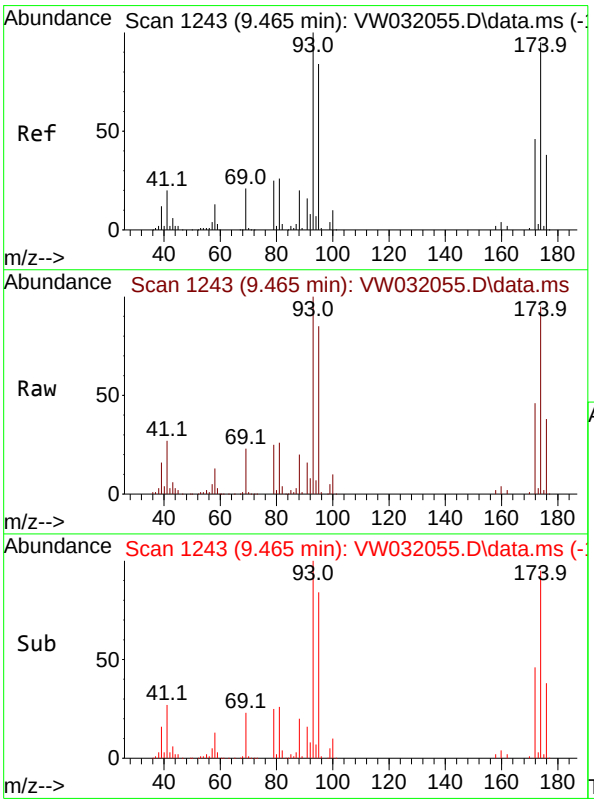
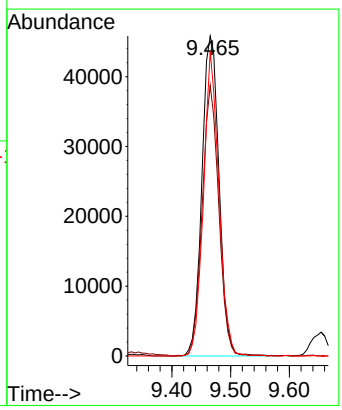
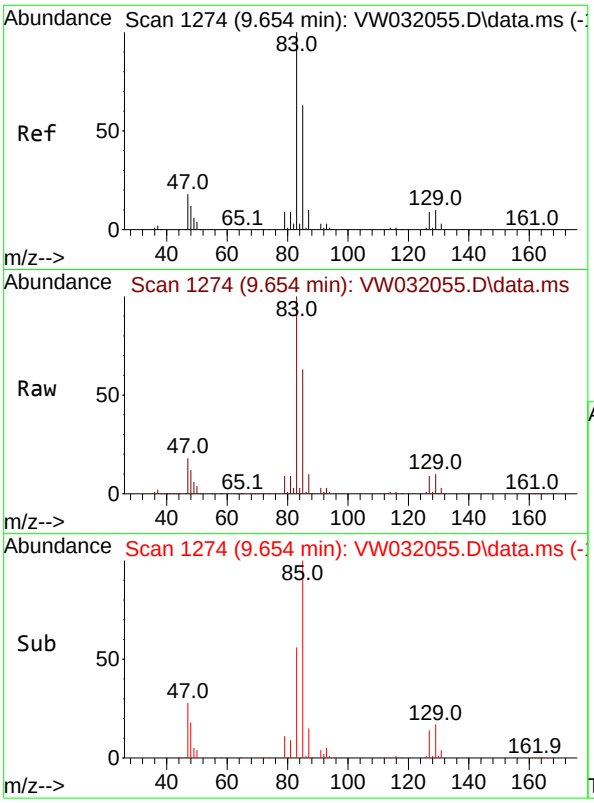


#46
Dibromomethane
Concen: 51.770 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 93 Resp: 93001

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.3	97.9
174	85.7	68.6	102.8

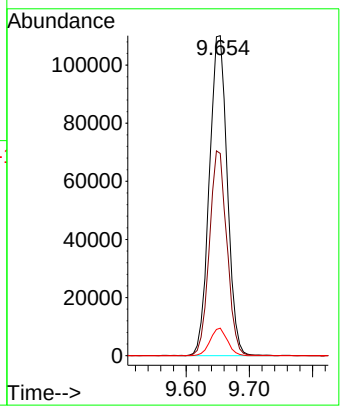




#47
Bromodichloromethane
Concen: 52.307 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 21652

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.6	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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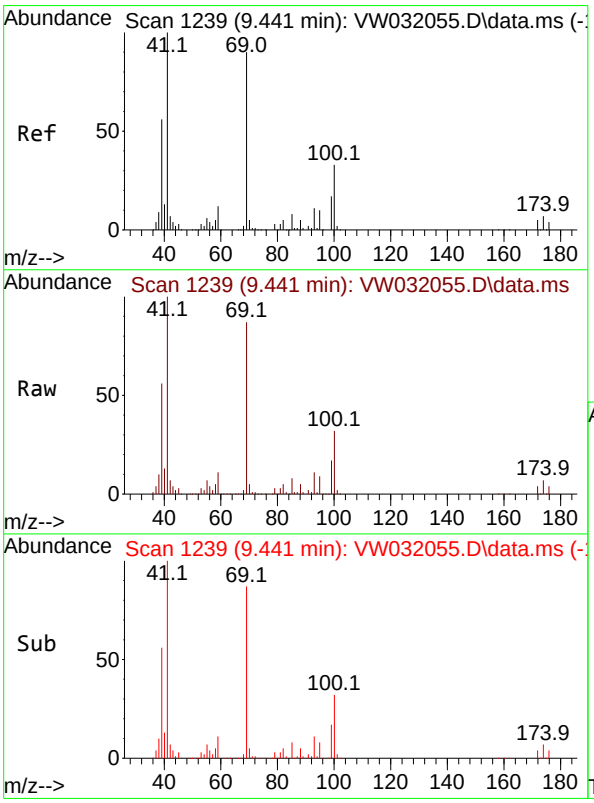
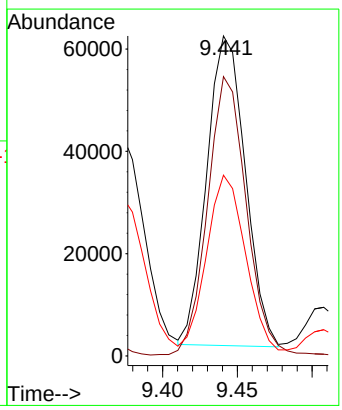
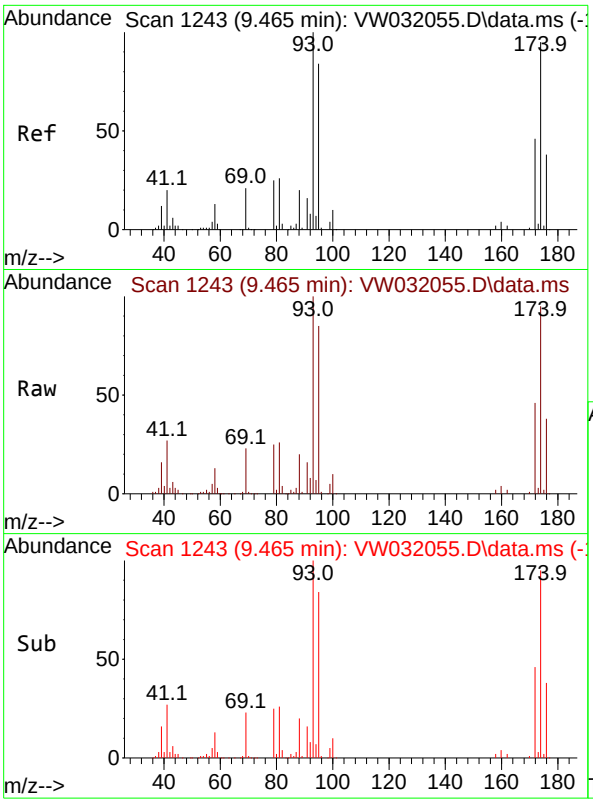


#48
Methyl methacrylate
Concen: 55.849 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 108287

Ion	Ratio	Lower	Upper
41	100		
69	91.3	73.0	109.6
39	56.2	45.0	67.4

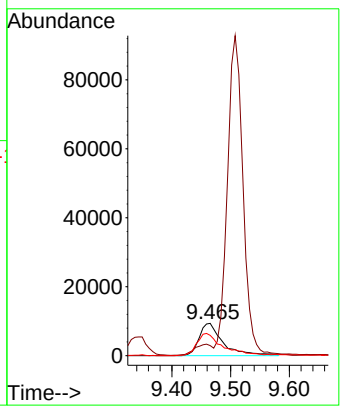




#49
1,4-Dioxane
Concen: 1144.321 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 88 Resp: 2657

Ion	Ratio	Lower	Upper
88	100		
43	25.7	20.6	30.8
58	75.5	60.4	90.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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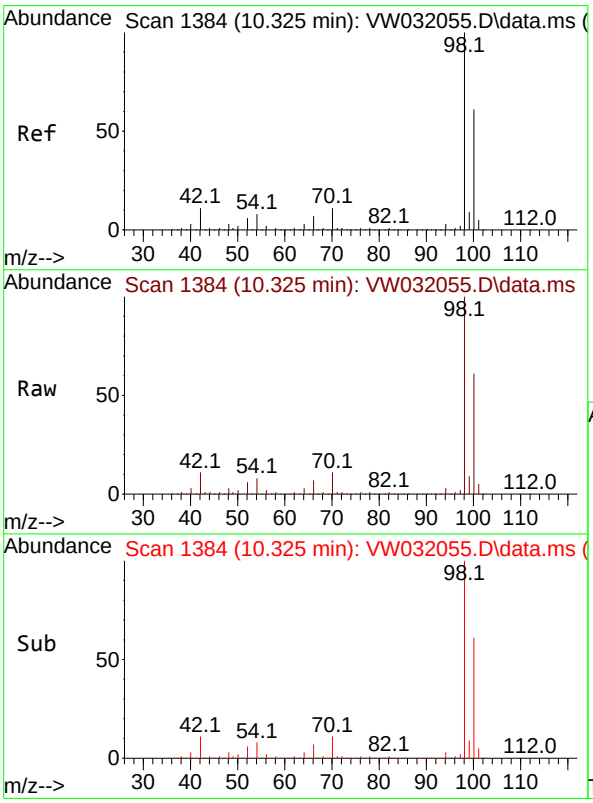
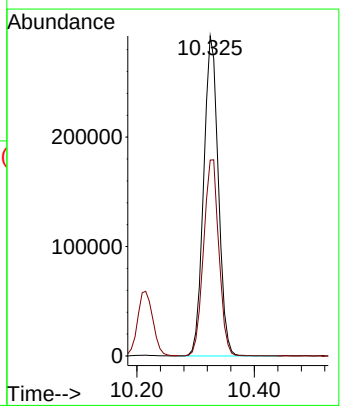
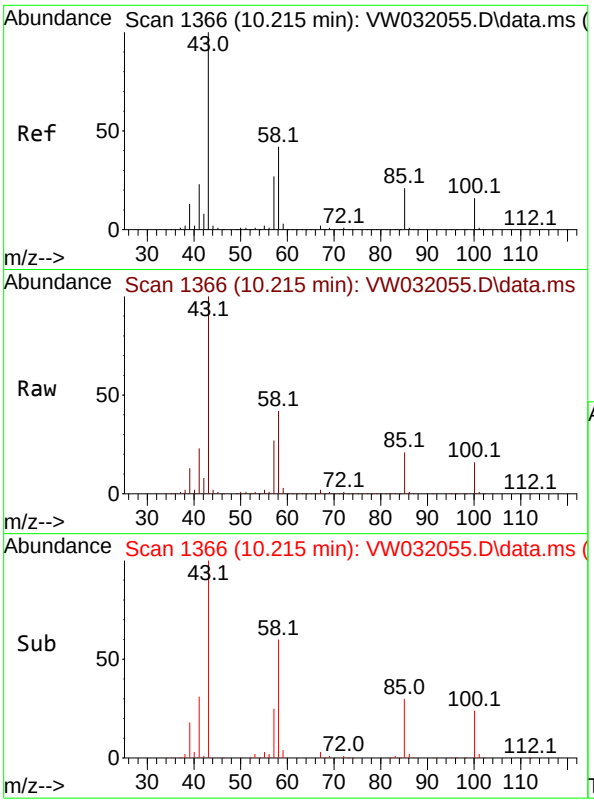


#50
Toluene-d8
Concen: 52.098 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 98 Resp: 506634

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 280.194 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 63517

Ion	Ratio	Lower	Upper
43	100		
58	41.4	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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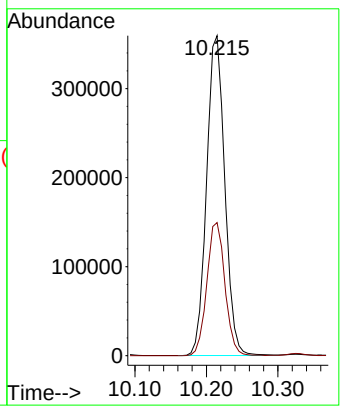
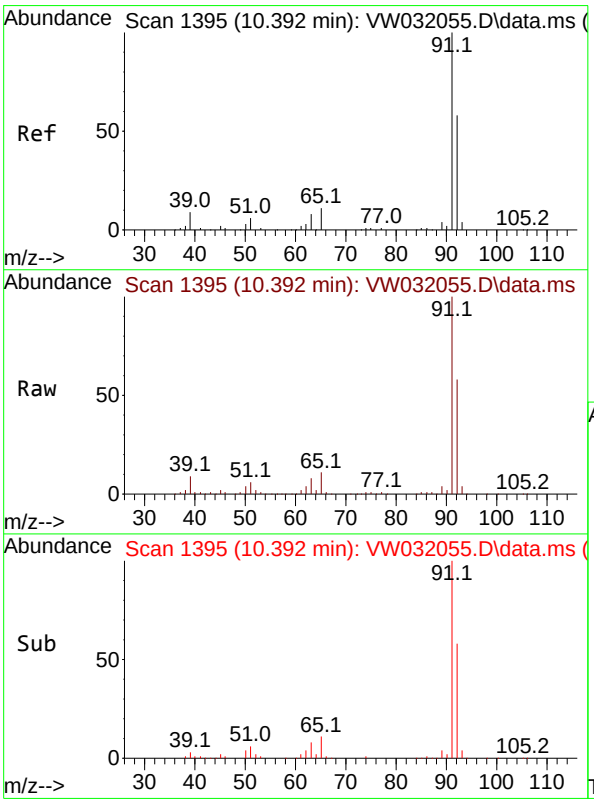
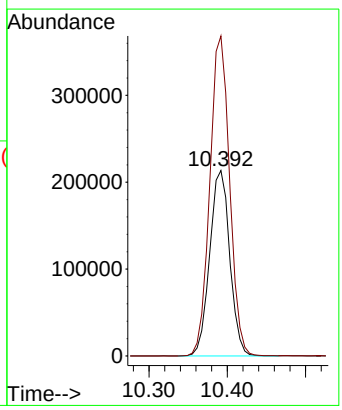


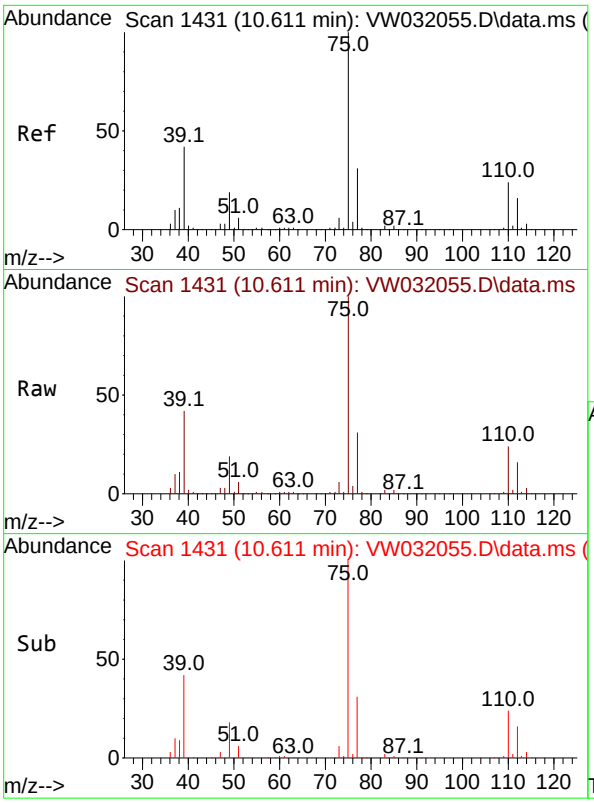


#52
Toluene
Concen: 52.258 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 92 Resp: 379230

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5

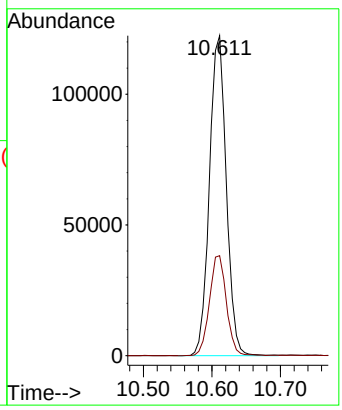




#53
t-1,3-Dichloropropene
Concen: 54.035 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 20955

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
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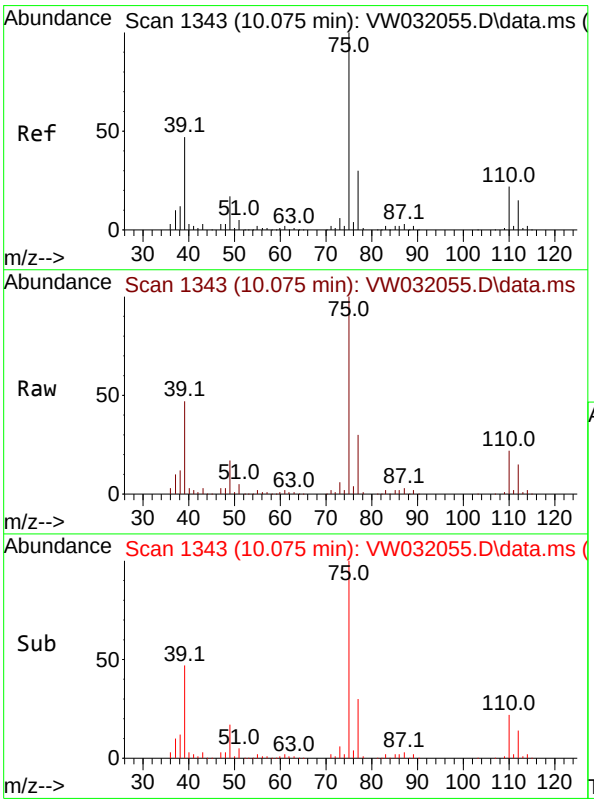
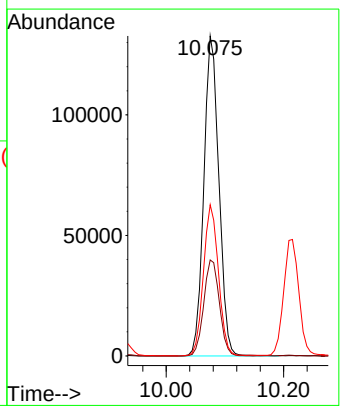
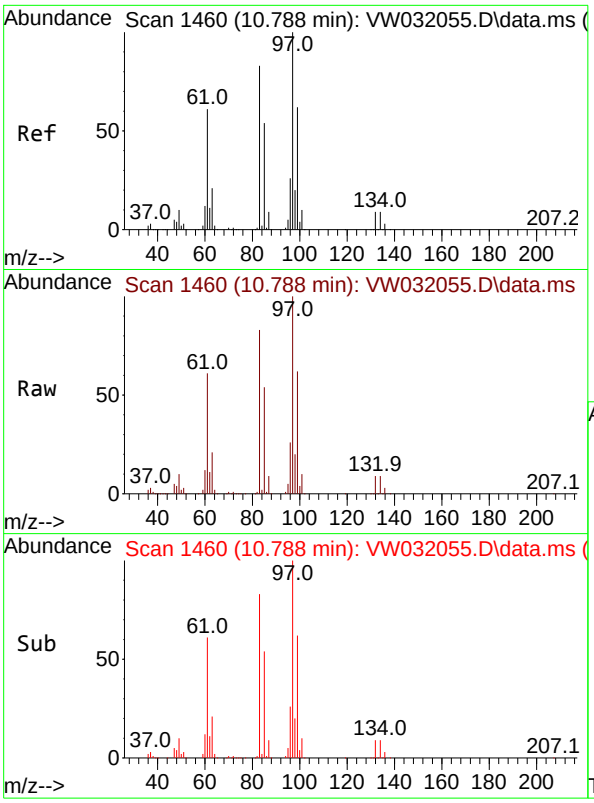


#54
cis-1,3-Dichloropropene
Concen: 53.744 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 236454

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.0	36.0
39	47.3	37.8	56.8

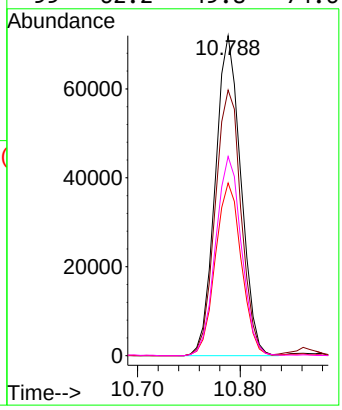




#55
1,1,2-Trichloroethane
Concen: 52.088 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 97 Resp: 12434

Ion	Ratio	Lower	Upper
97	100		
83	83.0	66.4	99.6
85	53.9	43.1	64.7
99	62.2	49.8	74.6



Instrument :
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ClientSampleId :
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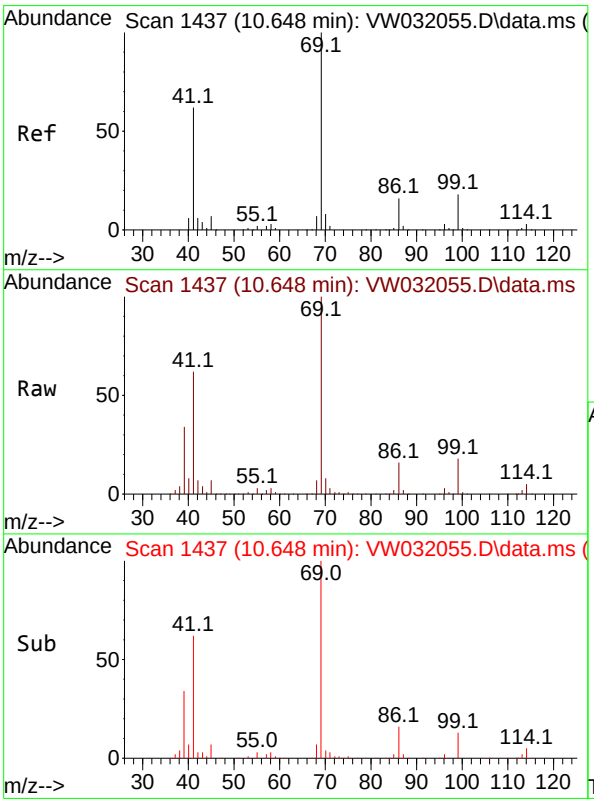
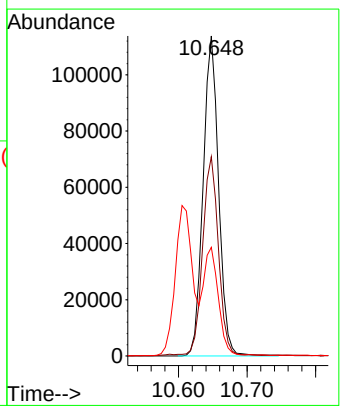
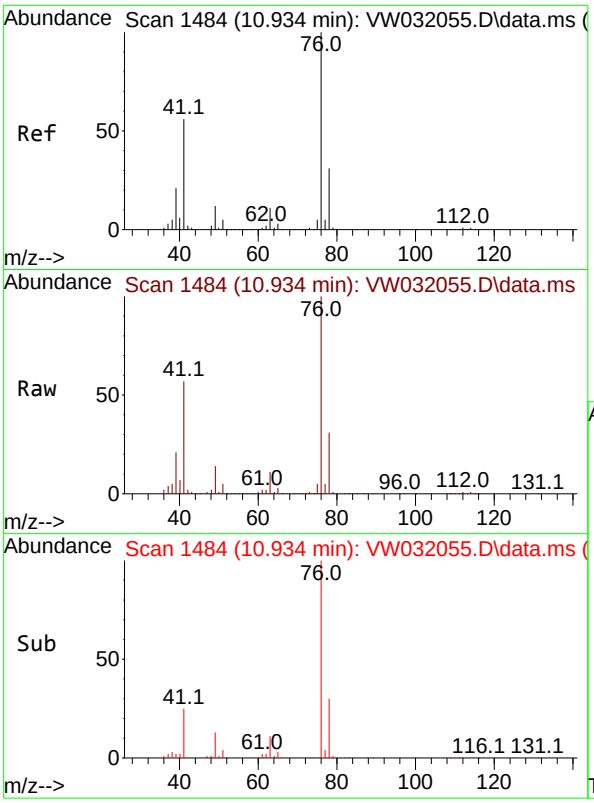


#56
Ethyl methacrylate
Concen: 56.027 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 69 Resp: 178974

Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.2	76.8
39	31.7	25.4	38.0





#57
1,3-Dichloropropane
Concen: 52.084 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 76 Resp: 216719

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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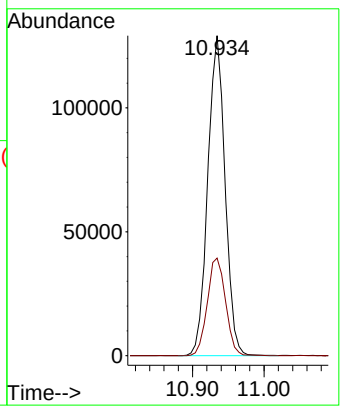
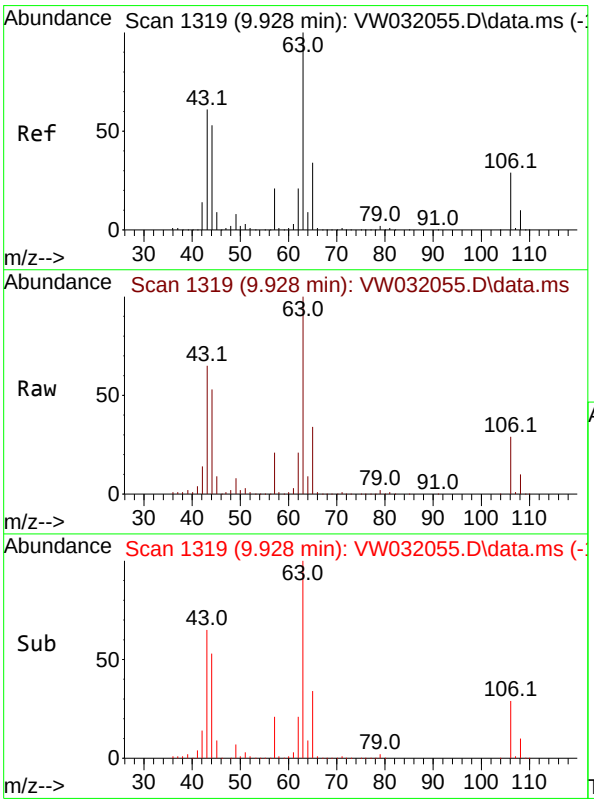
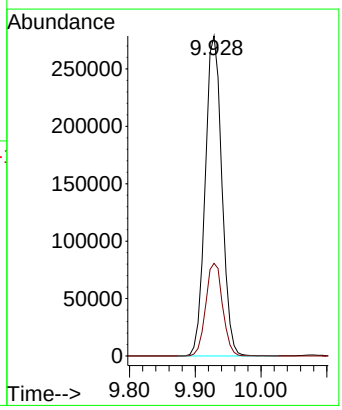


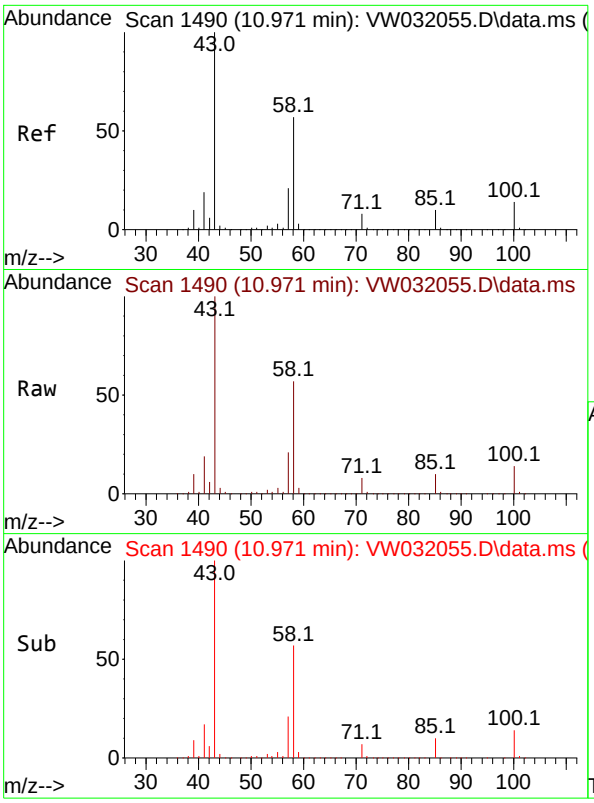


#58
2-Chloroethyl Vinyl ether
Concen: 277.613 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 490522

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.5	35.3

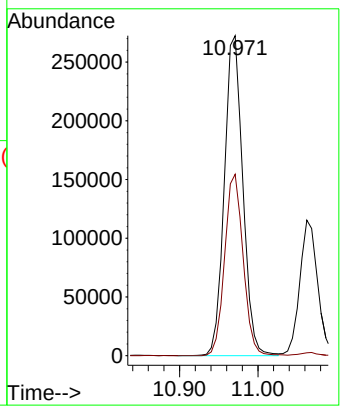




#59
2-Hexanone
Concen: 284.986 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 44742

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0



Instrument :
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ClientSampleId :
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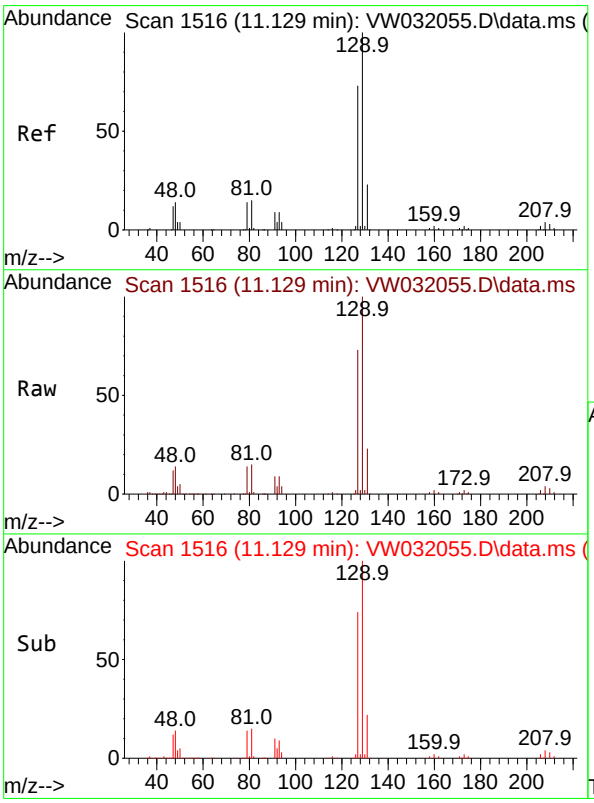
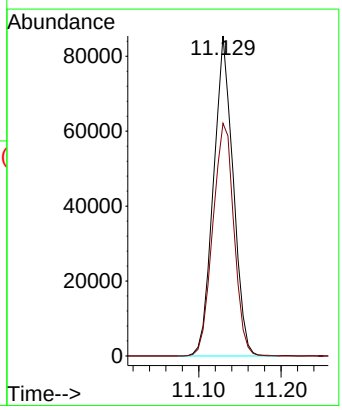
Supervised By :Semsettin Yesilyurt 08/12/2025

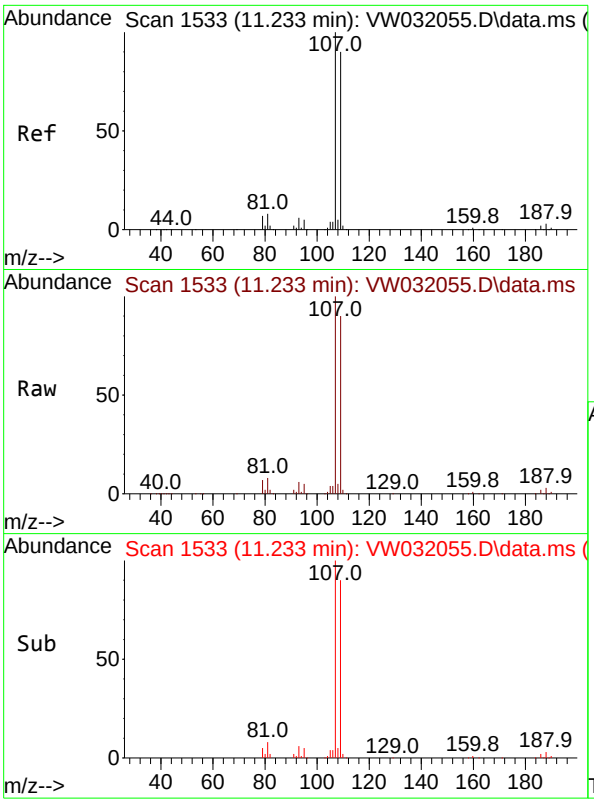


#60
Dibromochloromethane
Concen: 52.161 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:129 Resp: 142234

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9

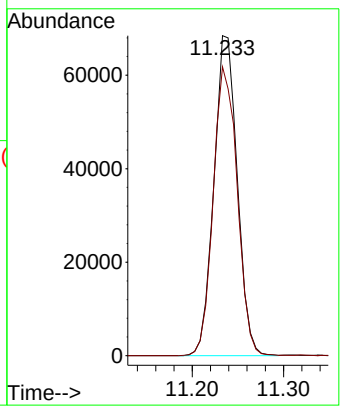




#61
1,2-Dibromoethane
Concen: 52.430 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:107 Resp: 12162

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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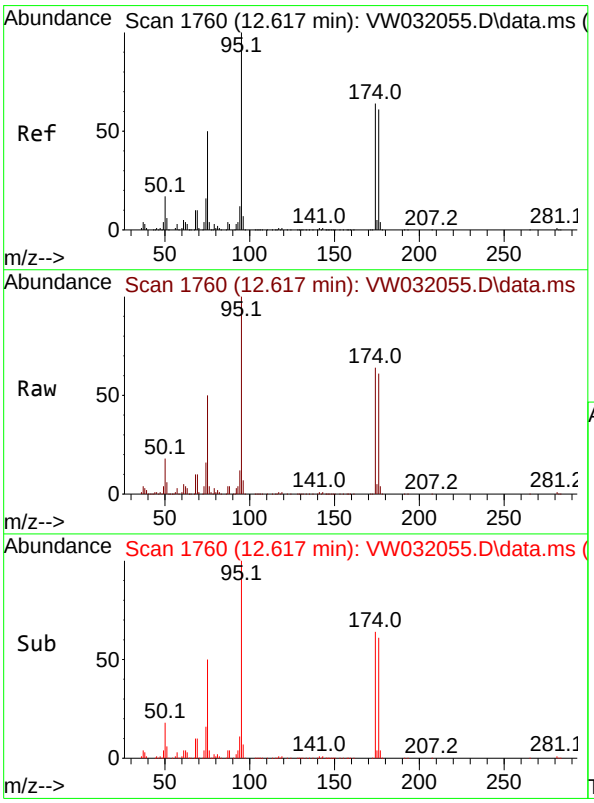
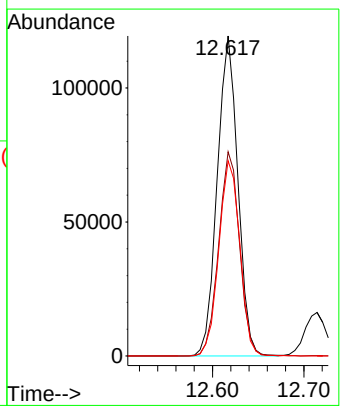
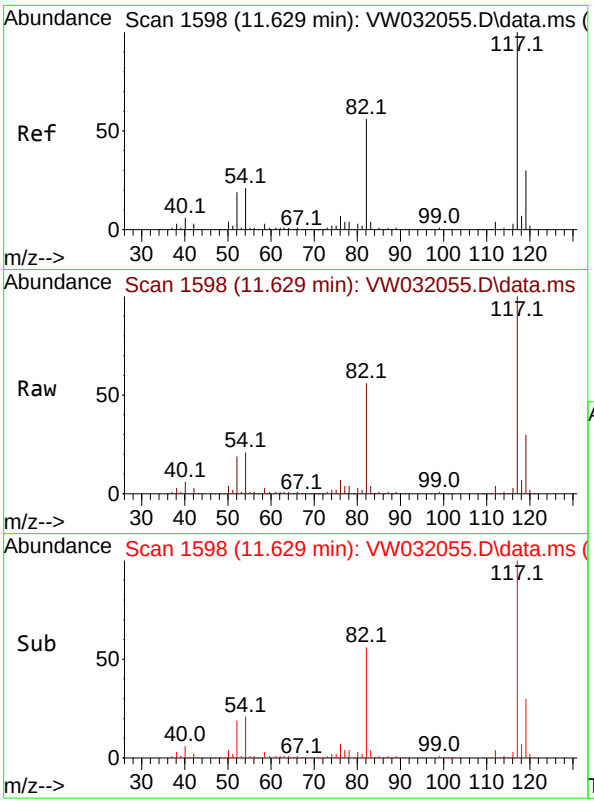


#62
4-Bromofluorobenzene
Concen: 52.274 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 95 Resp: 187331

Ion	Ratio	Lower	Upper
95	100		
174	64.5	0.0	129.0
176	62.3	0.0	124.6

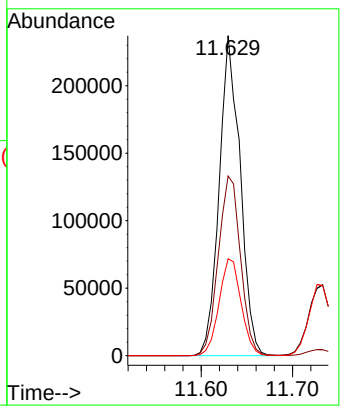




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 37809

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	30.3	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
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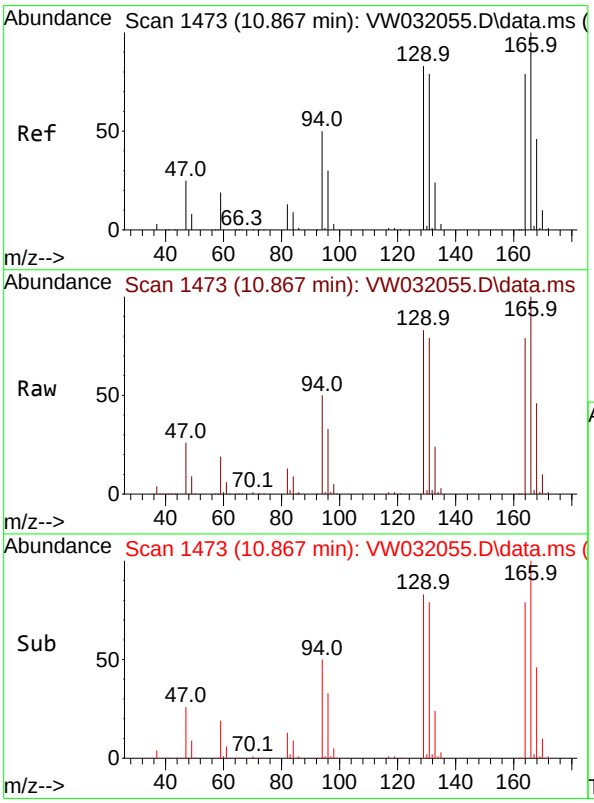
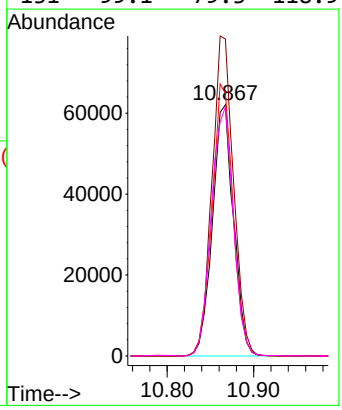
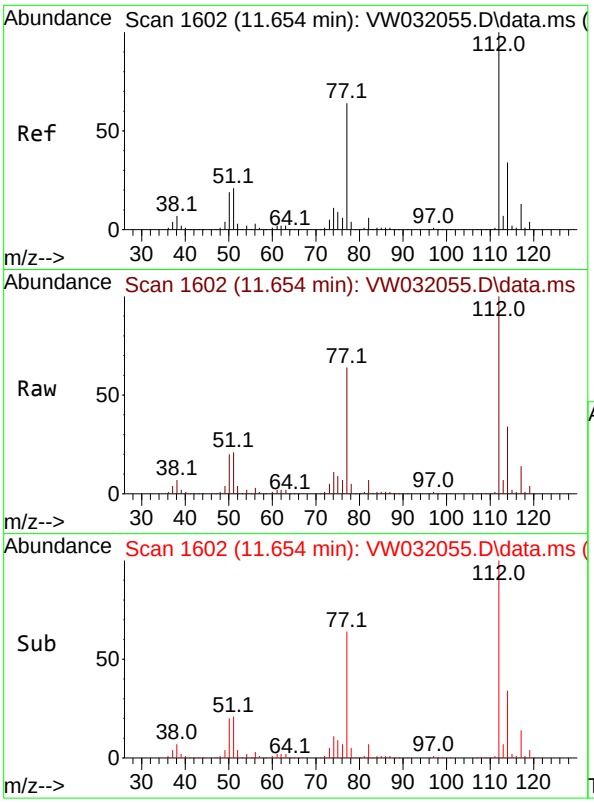


#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:164 Resp: 105400

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.9	151.3
129	104.5	83.6	125.4
131	99.1	79.3	118.9

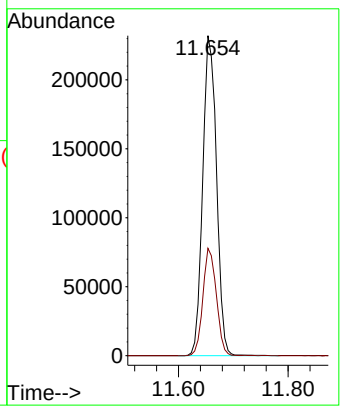




#65
Chlorobenzene
Concen: 49.082 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:112 Resp: 40392

Ion	Ratio	Lower	Upper
112	100		
114	33.6	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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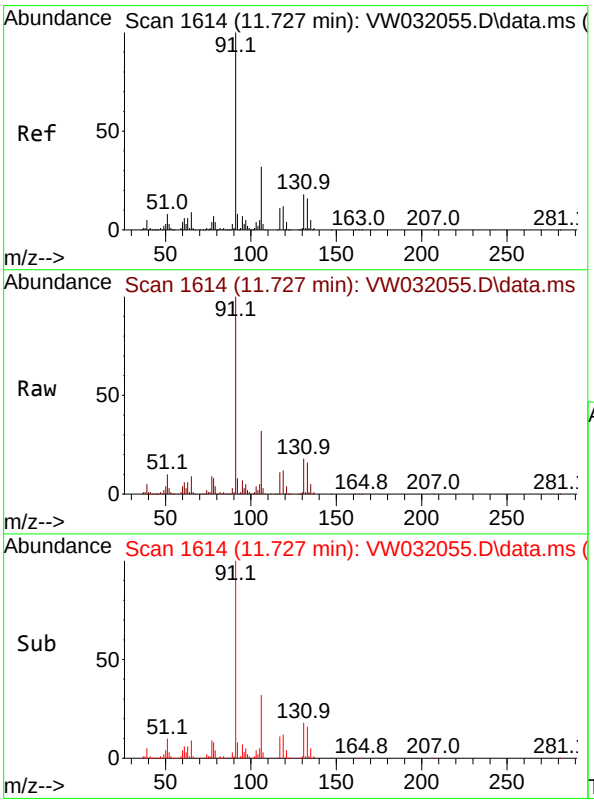
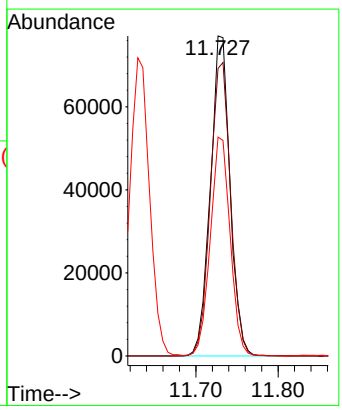
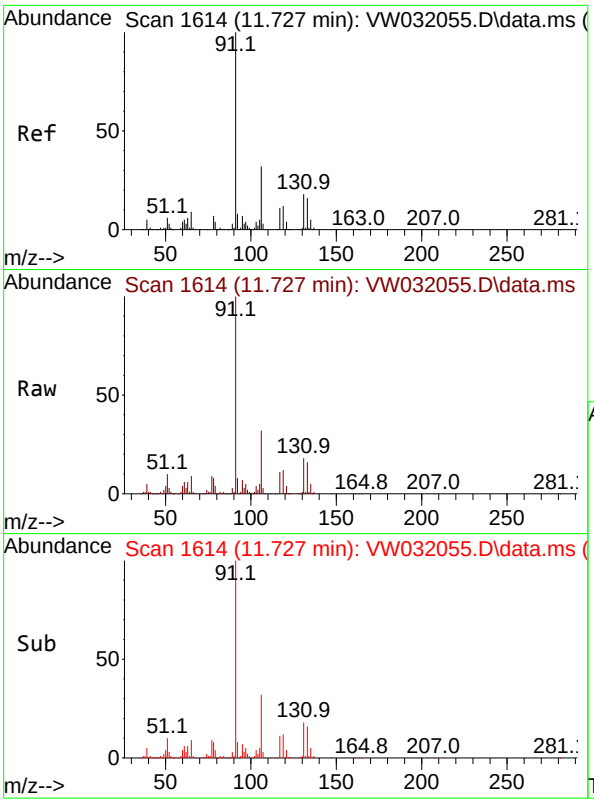


#66
1,1,1,2-Tetrachloroethane
Concen: 49.935 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:131 Resp: 128215

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	69.0	34.5	103.5





#67
Ethyl Benzene
Concen: 50.709 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 7068

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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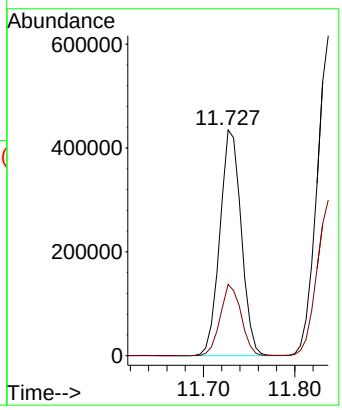
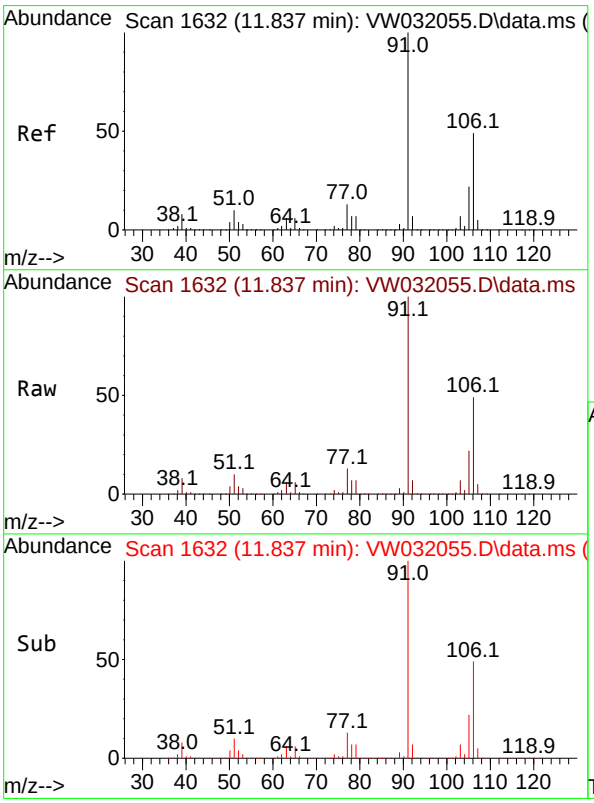
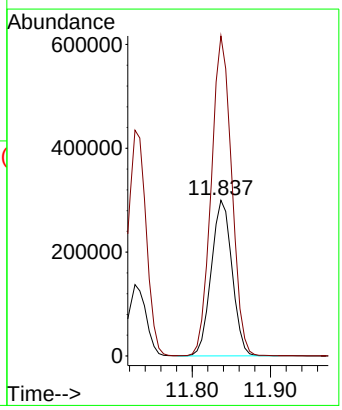


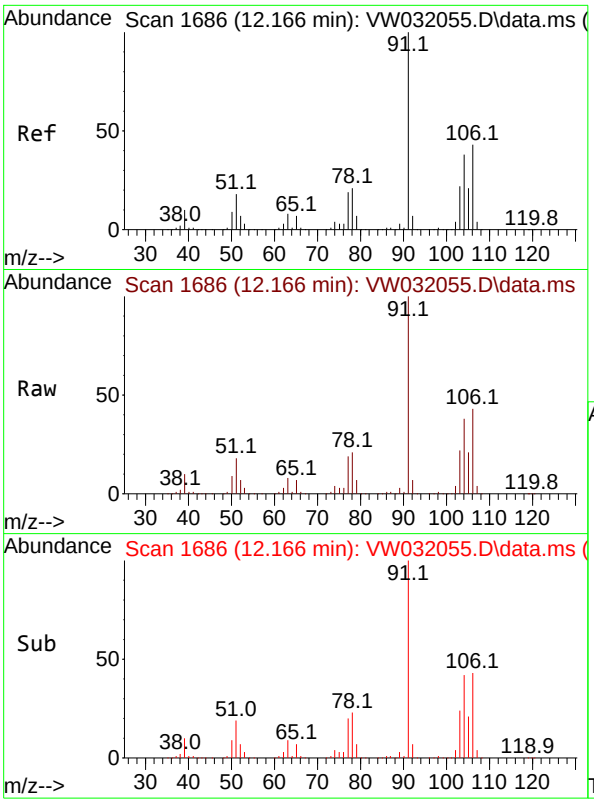


#68
m/p-Xylenes
Concen: 102.704 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 552442

Ion	Ratio	Lower	Upper
106	100		
91	202.7	162.2	243.2





#69
o-Xylene
Concen: 51.812 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 25759

Ion	Ratio	Lower	Upper
106	100		
91	221.5	110.8	332.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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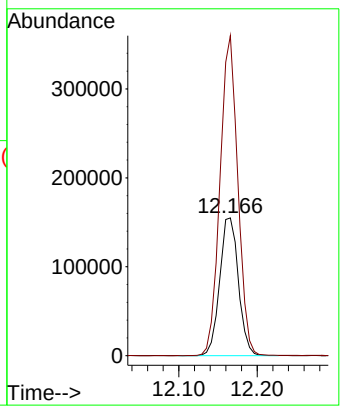
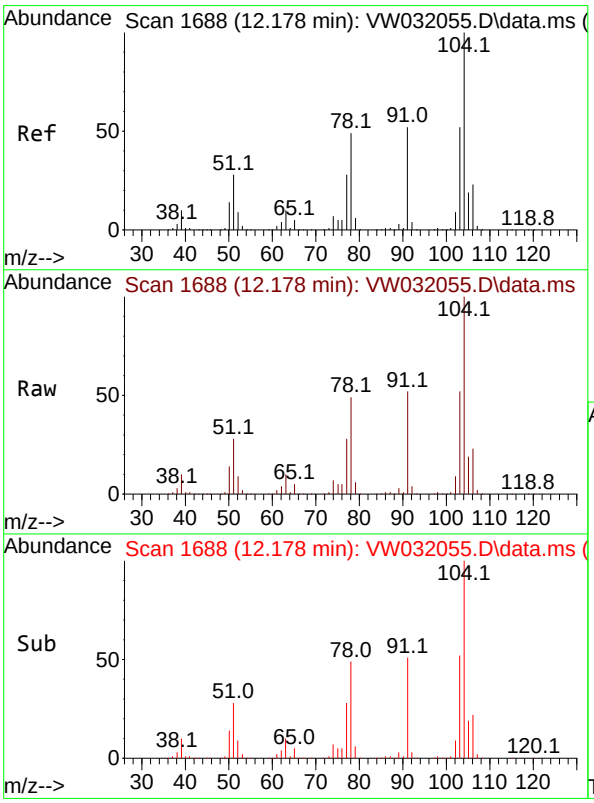
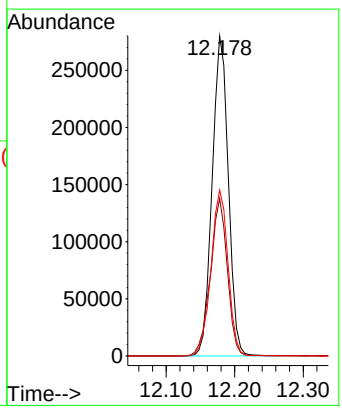


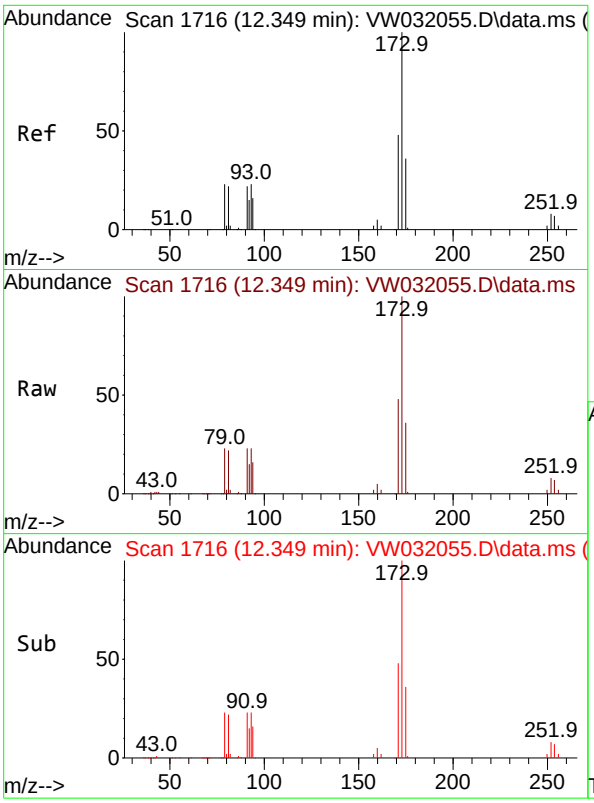


#70
Styrene
Concen: 51.858 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:104 Resp: 457949

Ion	Ratio	Lower	Upper
104	100		
78	51.5	41.2	61.8
103	54.8	43.8	65.8

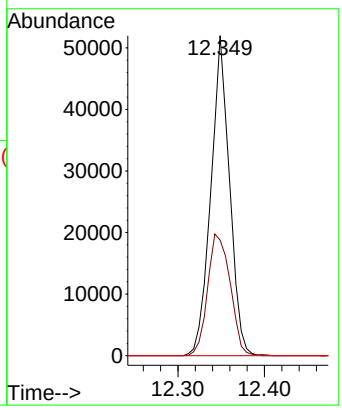




#71
Bromoform
Concen: 53.078 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:173 Resp: 7795

Ion	Ratio	Lower	Upper
173	100		
175	45.8	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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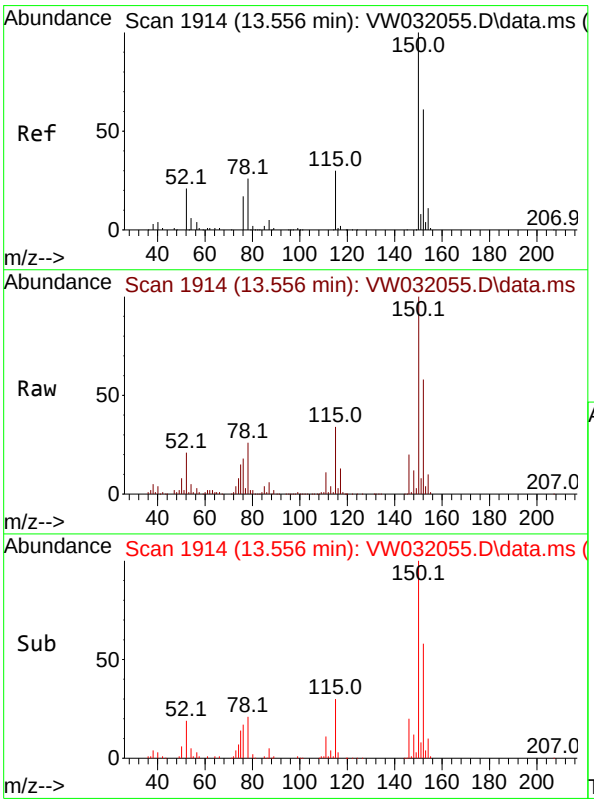
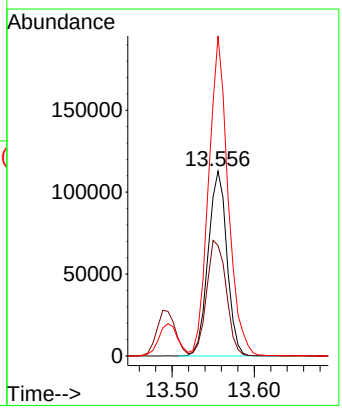
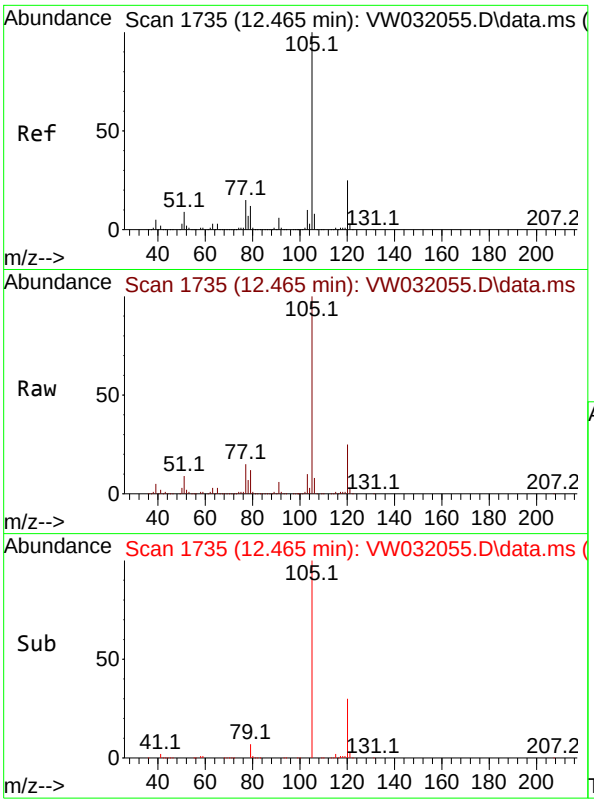


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:152 Resp: 178995

Ion	Ratio	Lower	Upper
152	100		
115	65.2	32.6	97.8
150	179.7	0.0	359.4

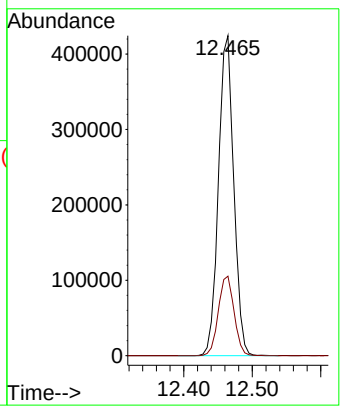




#73
Isopropylbenzene
Concen: 52.323 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 65452

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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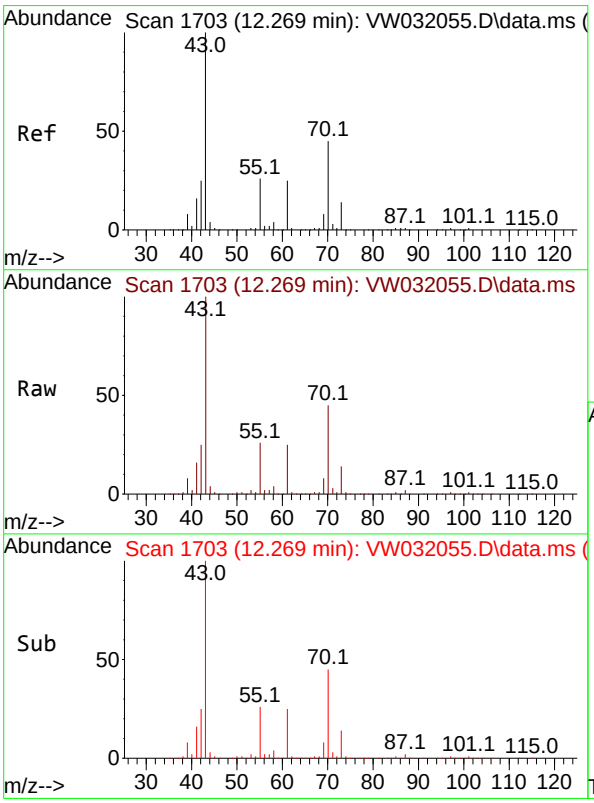
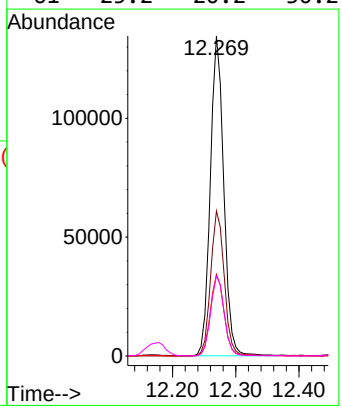
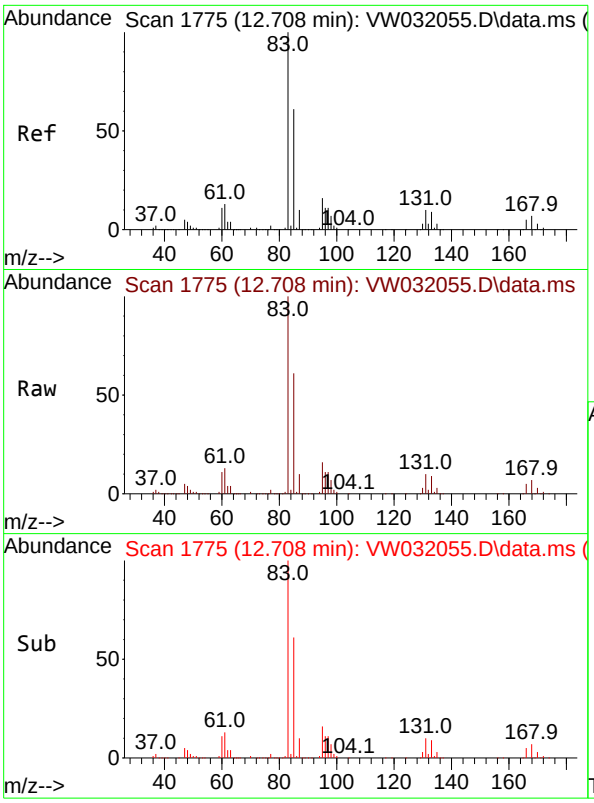


#74
N-amyl acetate
Concen: 55.520 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 199256

Ion	Ratio	Lower	Upper
43	100		
70	46.2	37.0	55.4
55	26.4	21.1	31.7
61	25.2	20.2	30.2

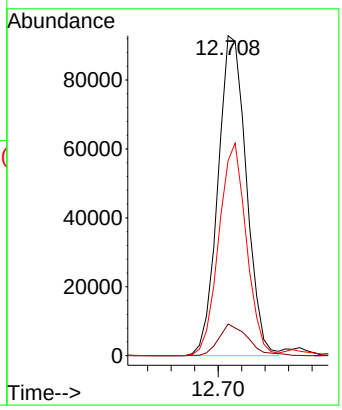




#75
1,1,2,2-Tetrachloroethane
Concen: 52.549 ug/l
RT: 12.708 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 15607

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.4	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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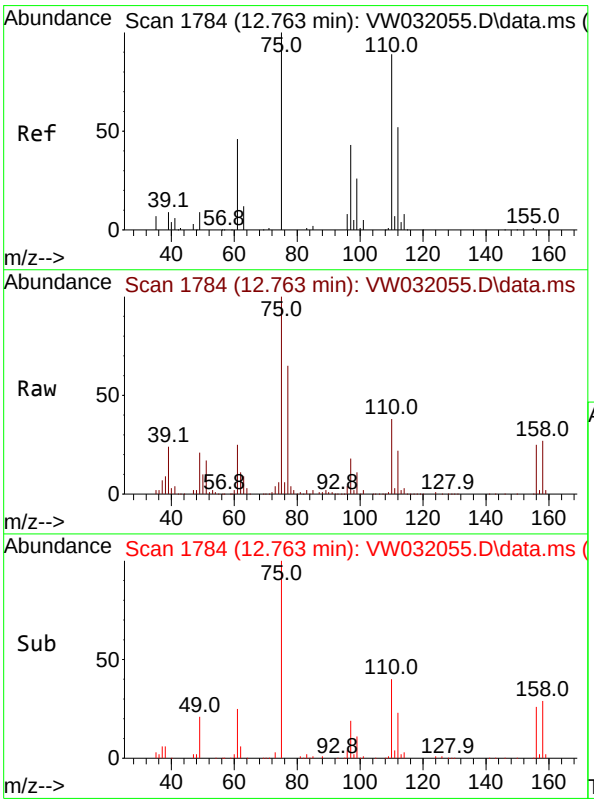
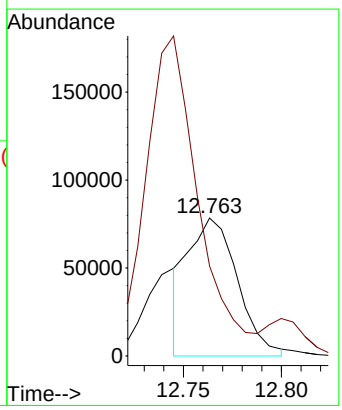
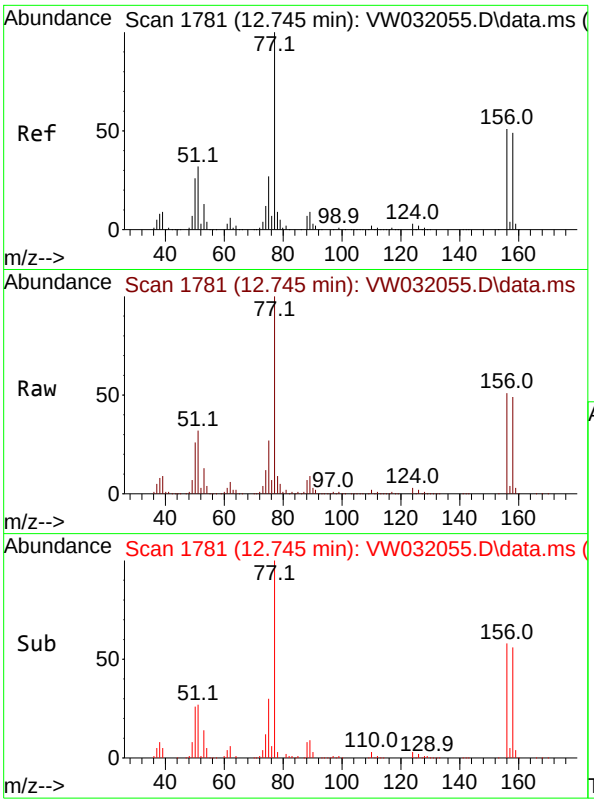


#76
1,2,3-Trichloropropane
Concen: 50.019 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 137632

Ion	Ratio	Lower	Upper
75	100		
77	247.0	123.5	370.5





#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:156 Resp: 15633

Ion	Ratio	Lower	Upper
156	100		
77	217.5	108.7	326.3
158	96.6	48.3	144.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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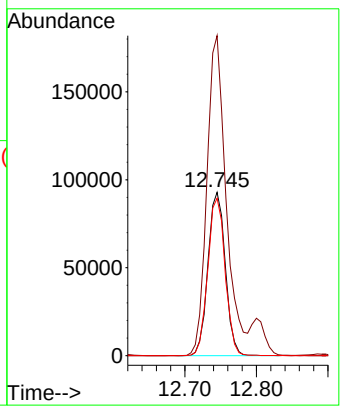
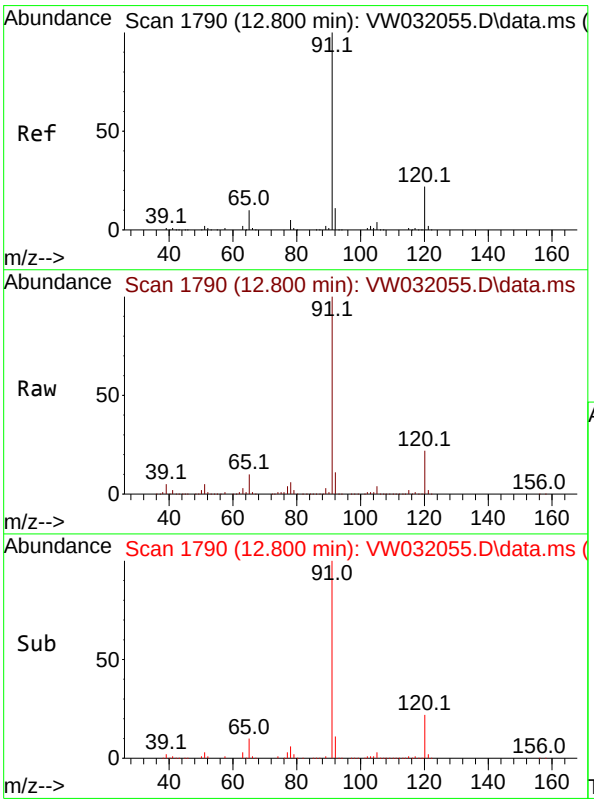
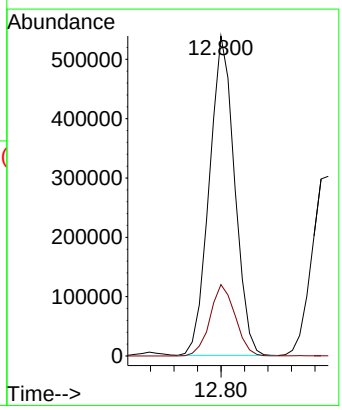


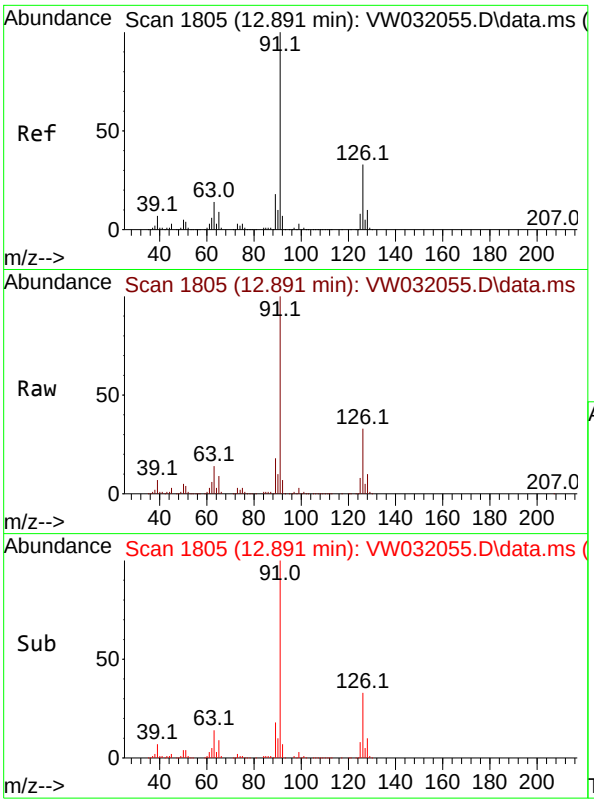


#78
n-propylbenzene
Concen: 52.304 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 805515

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3

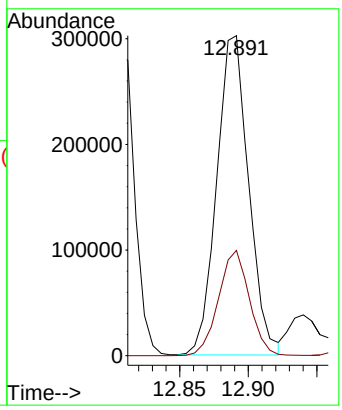




#79
2-Chlorotoluene
Concen: 51.622 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 49066

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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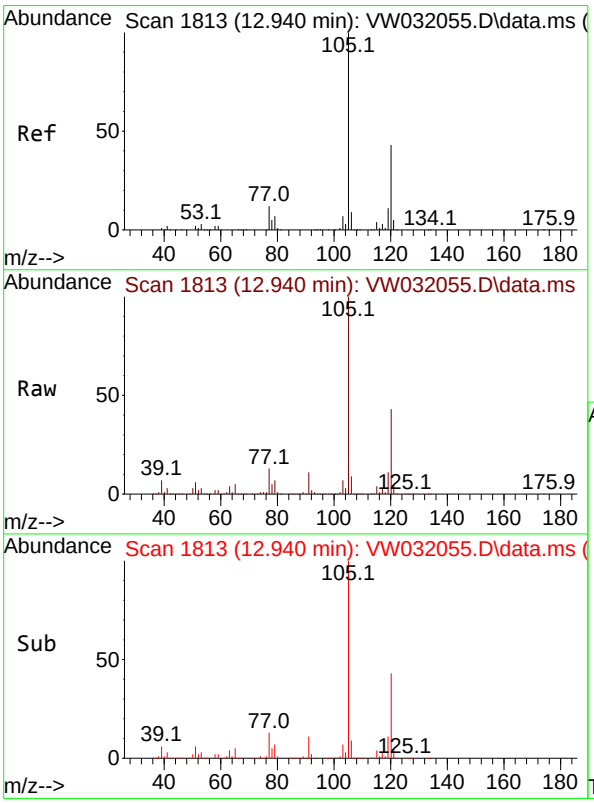
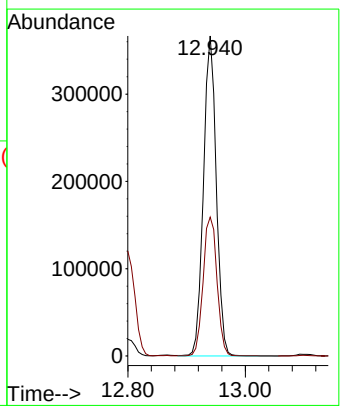
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

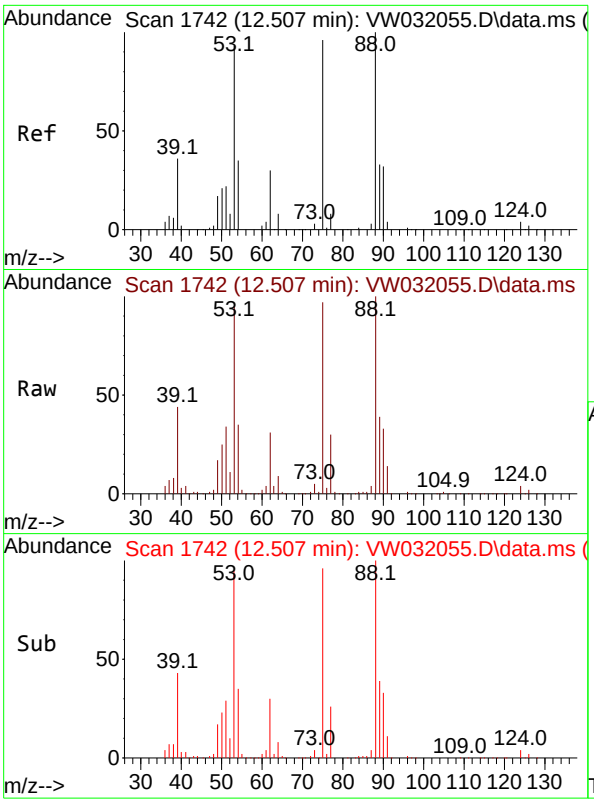


#80
1,3,5-Trimethylbenzene
Concen: 52.305 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 555481

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 55.213 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 5181

Ion	Ratio	Lower	Upper
75	100		
53	101.3	81.0	121.6
89	46.6	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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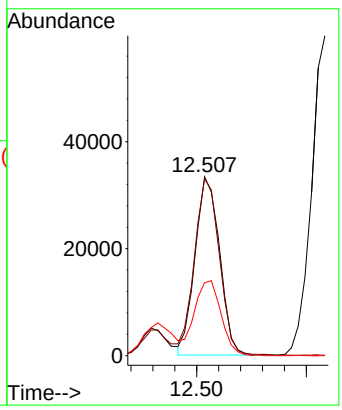
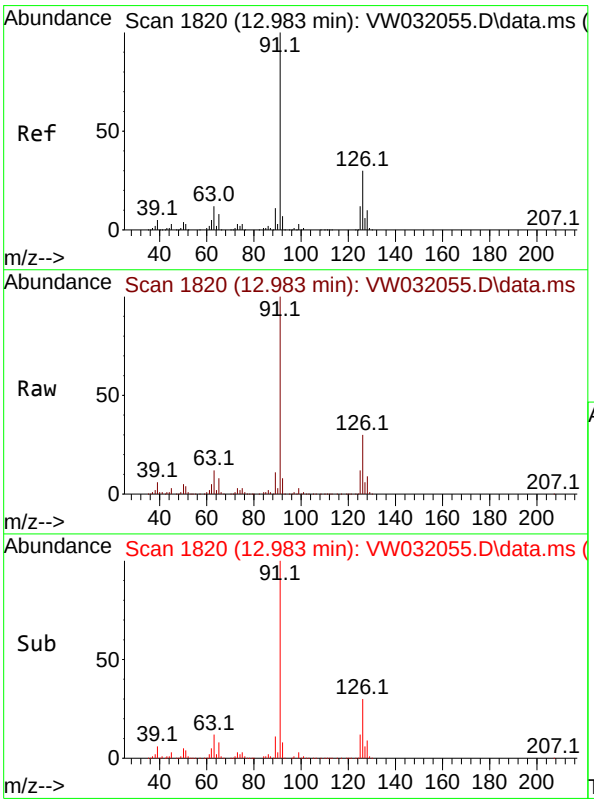
Supervised By :Semsettin Yesilyurt 08/12/2025

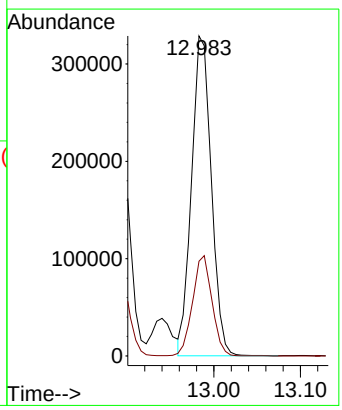


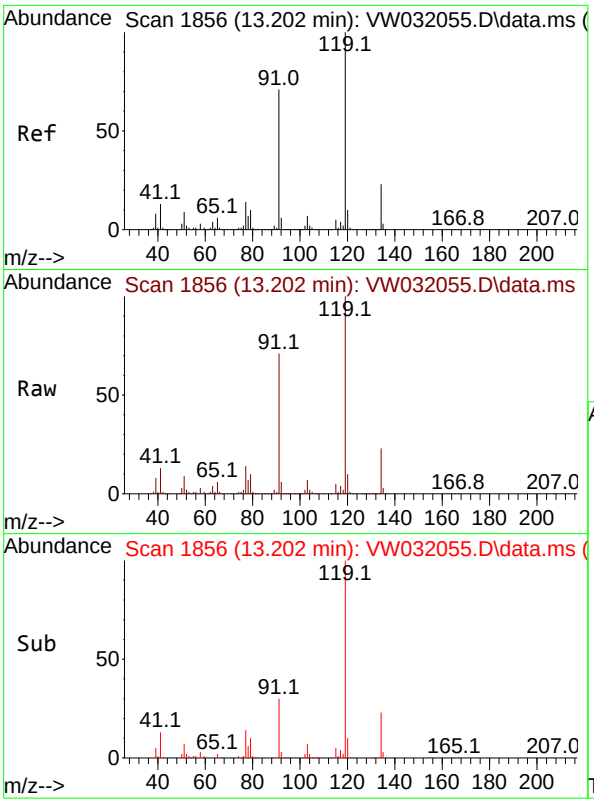


#82
4-Chlorotoluene
Concen: 51.488 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 519957

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.5	46.5

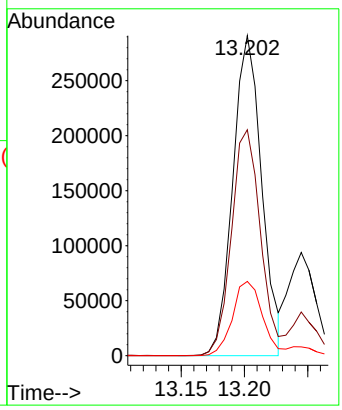




#83
tert-Butylbenzene
Concen: 52.460 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:119 Resp: 46237

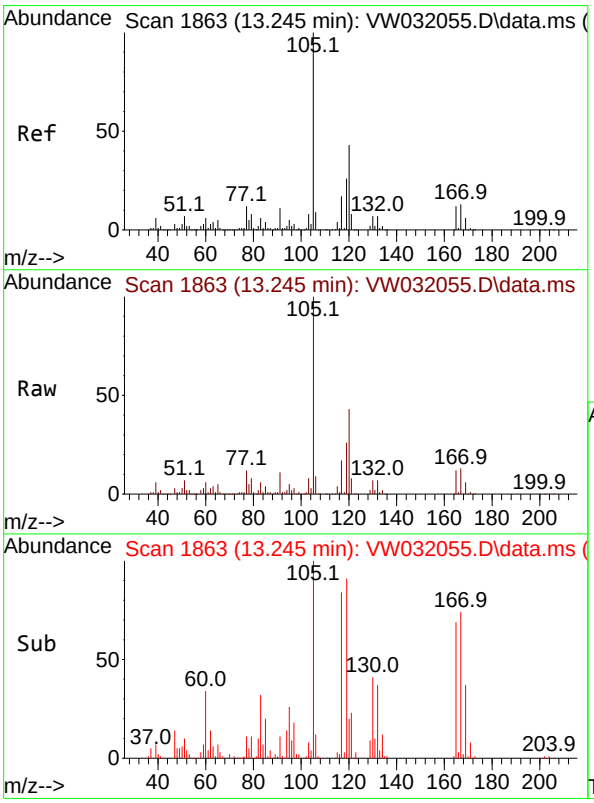
Ion	Ratio	Lower	Upper
119	100		
91	70.6	35.3	105.9
134	24.2	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

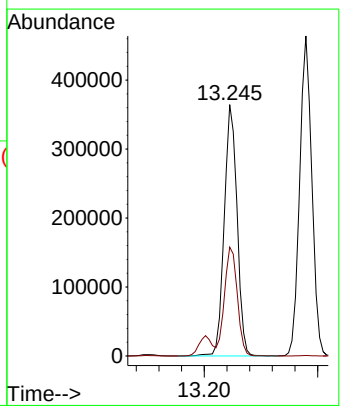
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

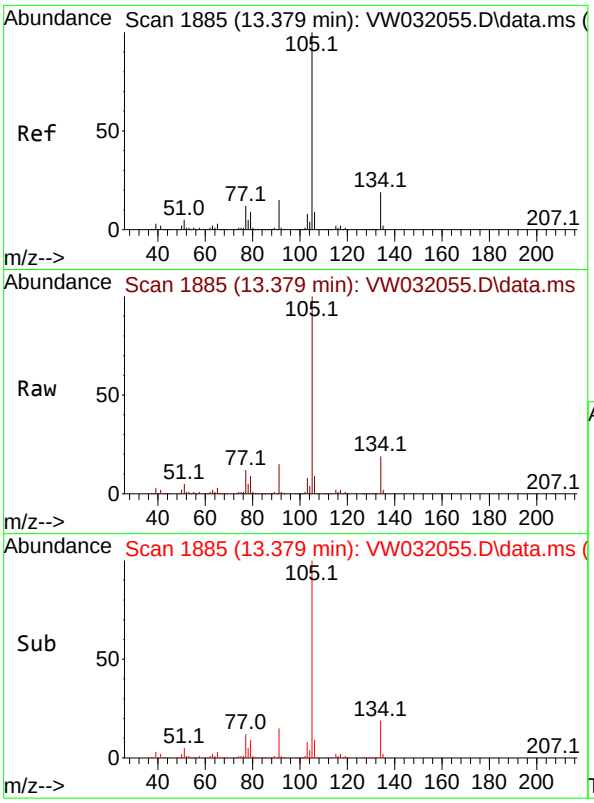


#84
1,2,4-Trimethylbenzene
Concen: 52.950 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 572429

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8





#85
sec-Butylbenzene
Concen: 51.829 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 69064

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
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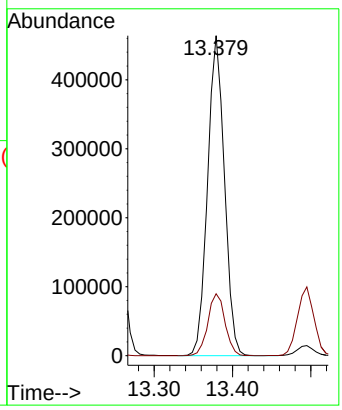
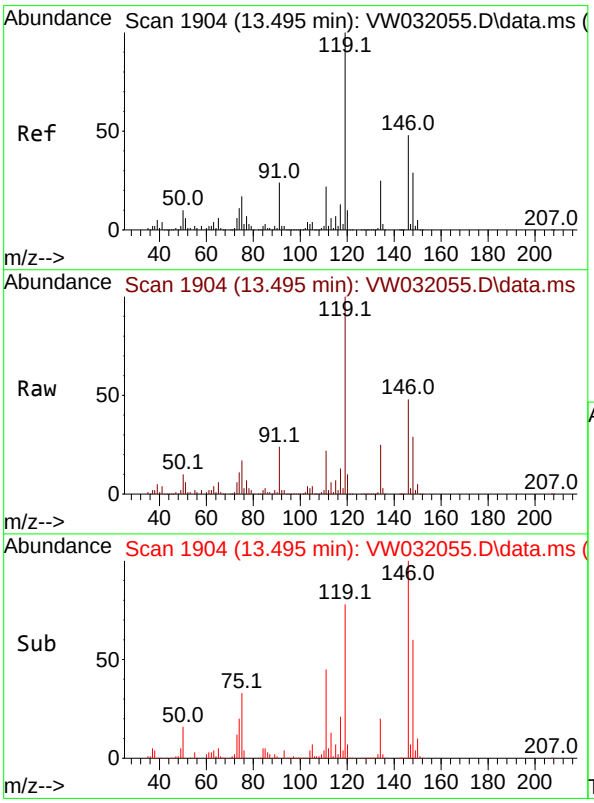
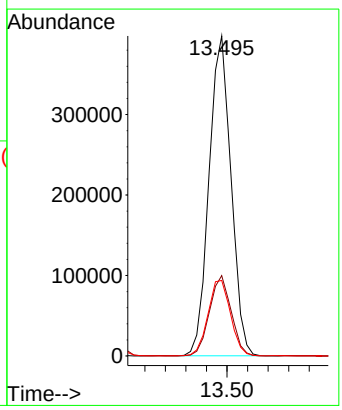


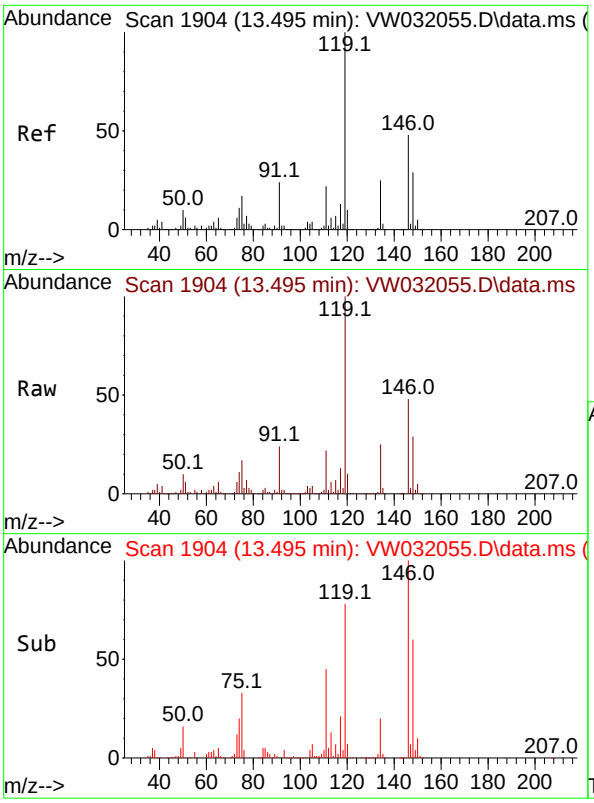


#86
p-Isopropyltoluene
Concen: 53.089 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:119 Resp: 589769

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.4	37.0
91	24.2	12.1	36.3

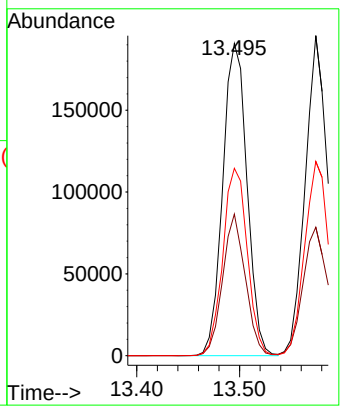




#87
1,3-Dichlorobenzene
Concen: 52.754 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 31362

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	60.5	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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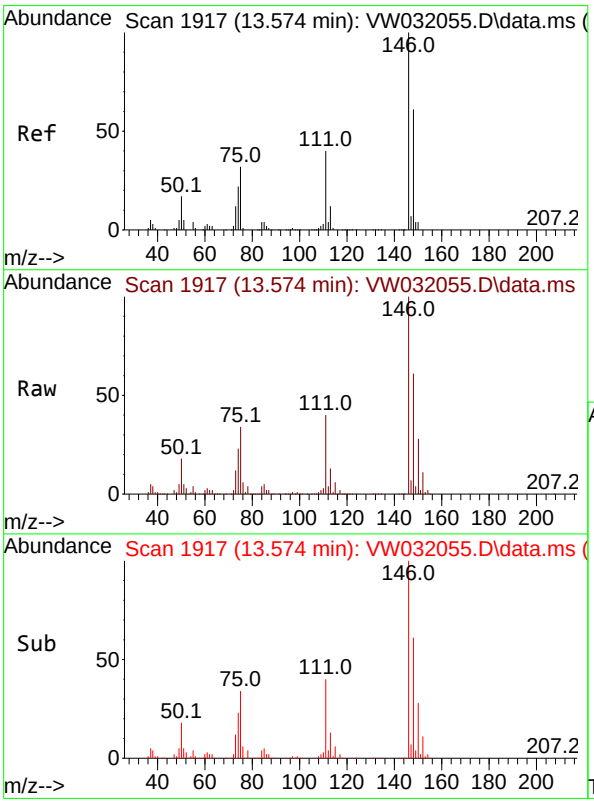
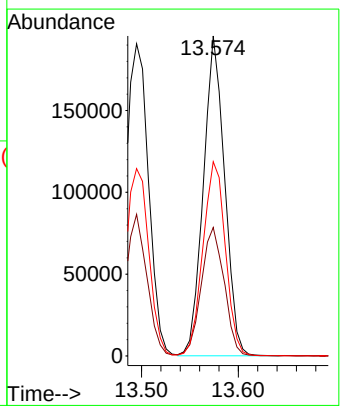
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

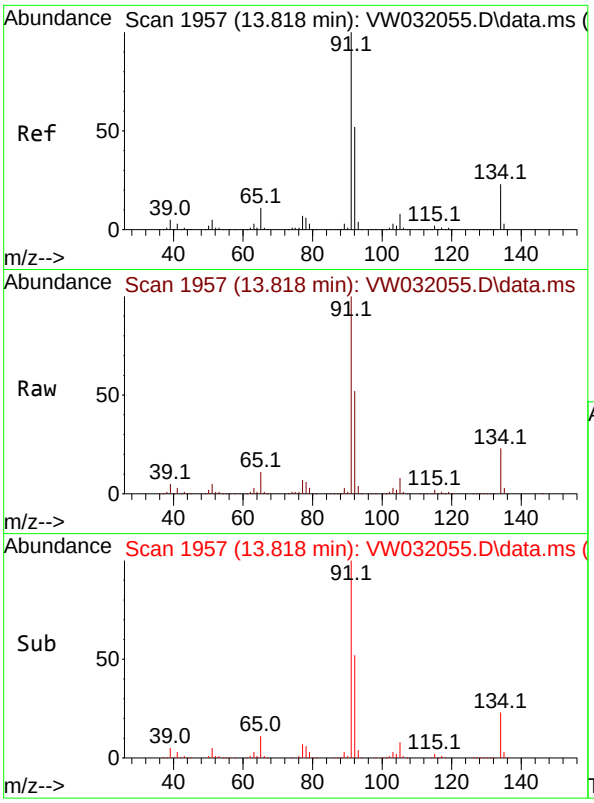


#88
1,4-Dichlorobenzene
Concen: 49.844 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 299453

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	64.1	32.0	96.2

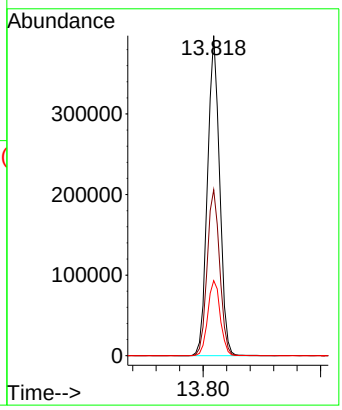




#89
n-Butylbenzene
Concen: 52.756 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 56936

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.7	80.1
134	24.1	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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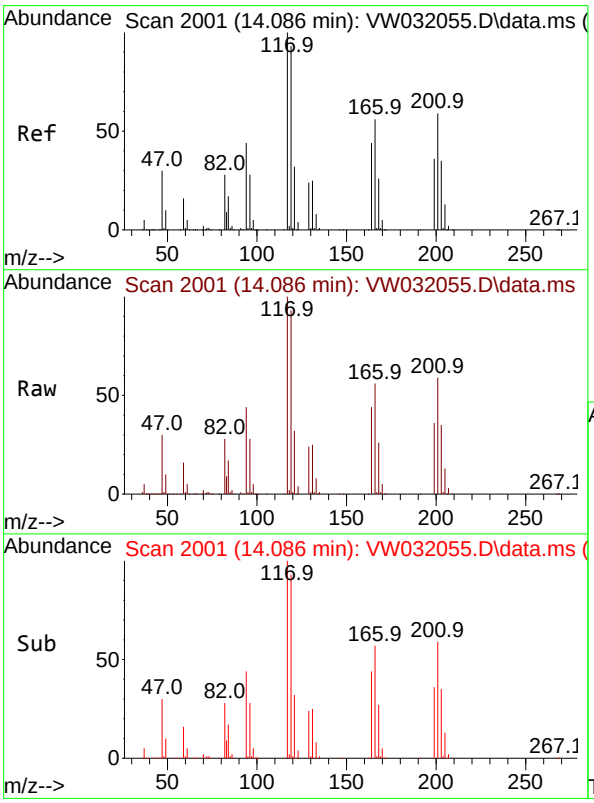
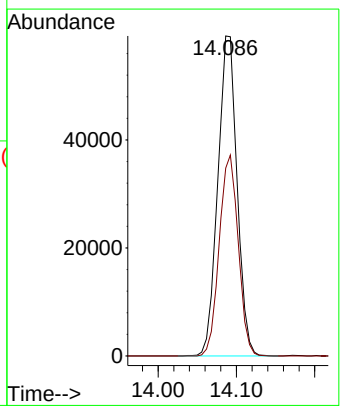
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

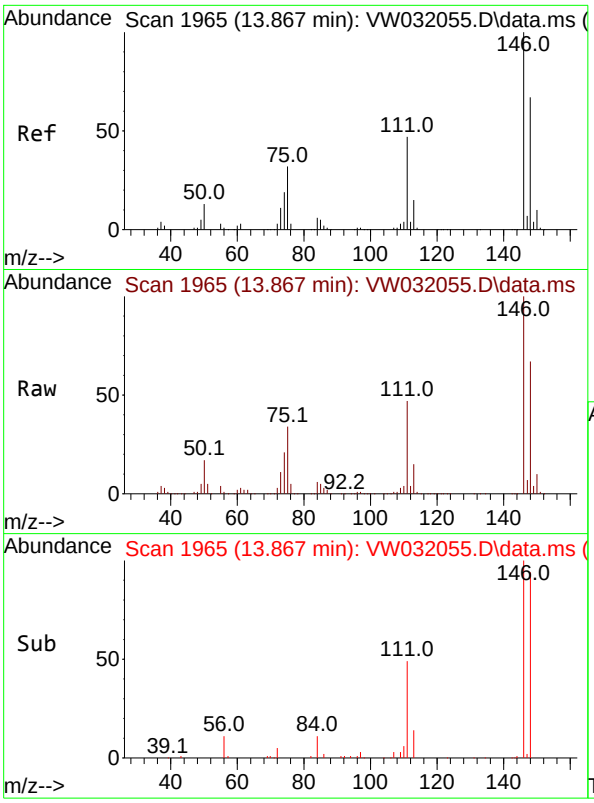


#90
Hexachloroethane
Concen: 49.942 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 101464

Ion	Ratio	Lower	Upper
117	100		
201	61.7	30.9	92.5

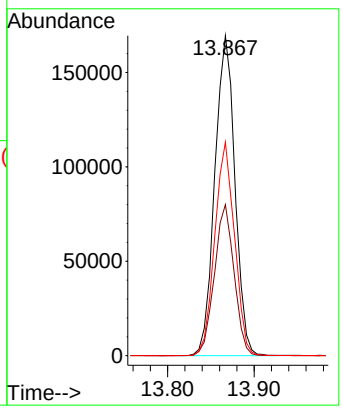




#91
1,2-Dichlorobenzene
Concen: 50.801 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 27358

Ion	Ratio	Lower	Upper
146	100		
111	46.2	23.1	69.3
148	65.7	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
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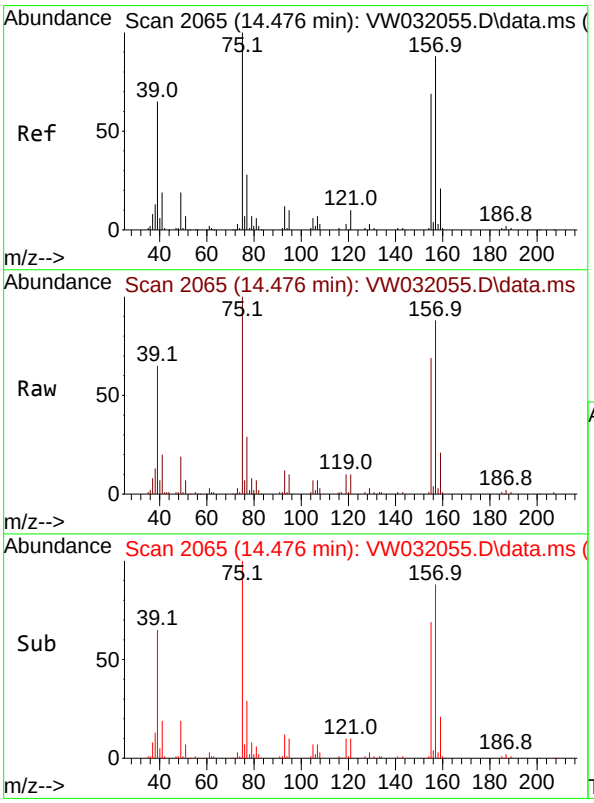
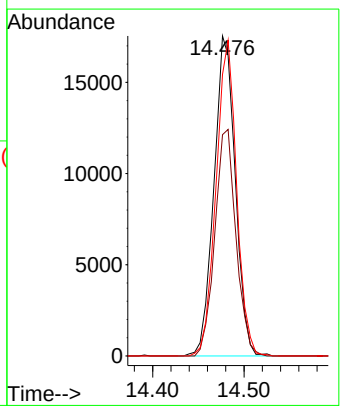
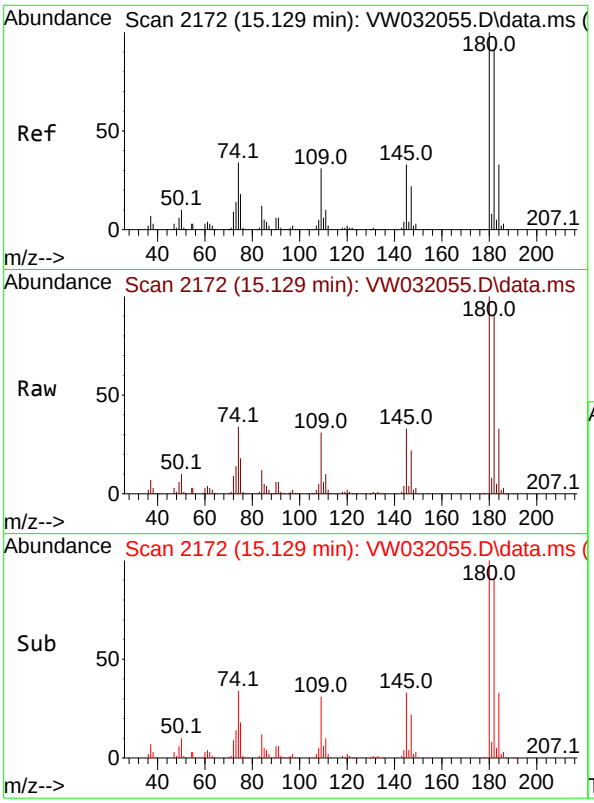


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.857 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 28437

Ion	Ratio	Lower	Upper
75	100		
155	70.4	35.2	105.6
157	95.1	47.5	142.6





#93
1,2,4-Trichlorobenzene
Concen: 51.132 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:180 Resp: 16472

Ion	Ratio	Lower	Upper
180	100		
182	98.0	49.0	147.0
145	34.6	17.3	51.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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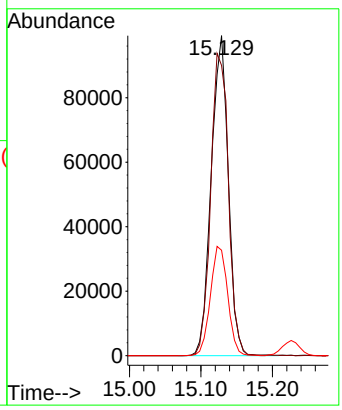
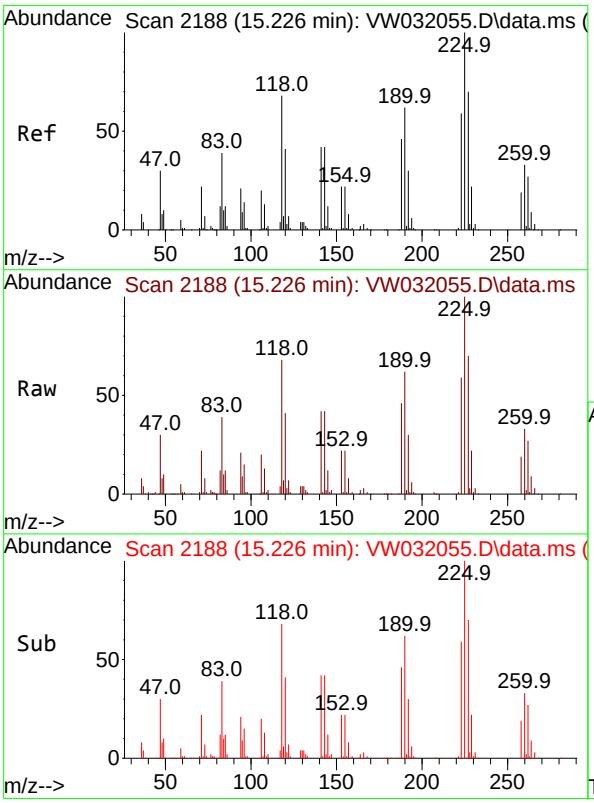
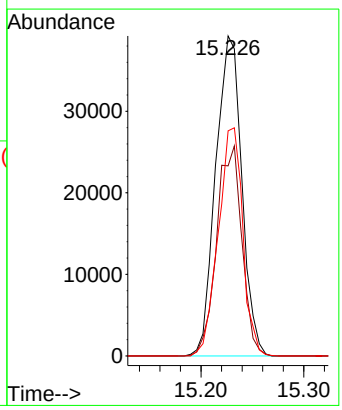


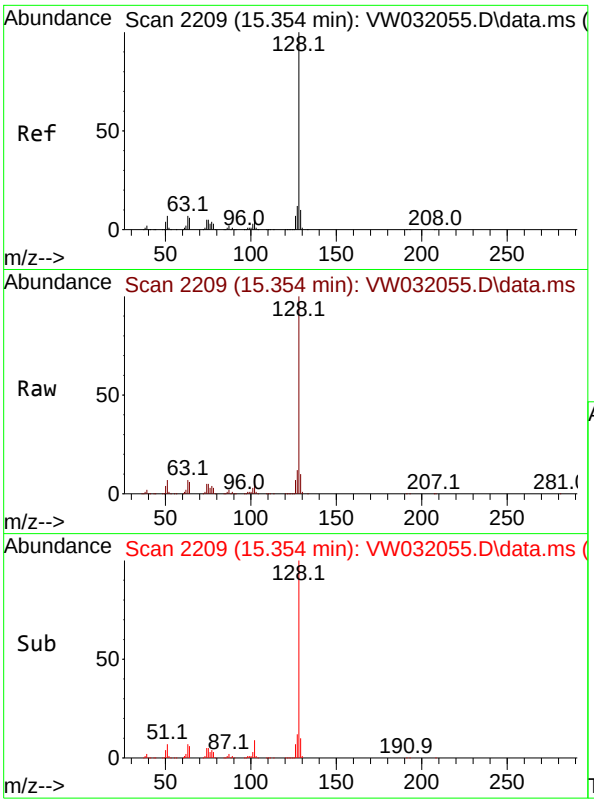


#94
Hexachlorobutadiene
Concen: 47.902 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:225 Resp: 68983

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.8	95.3
227	67.0	33.5	100.5

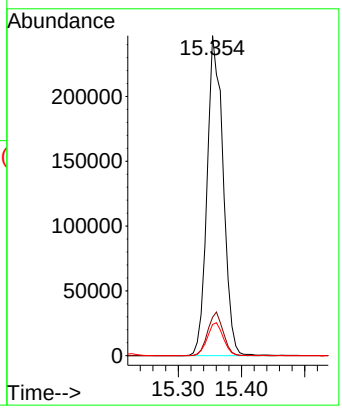




#95
Naphthalene
Concen: 55.099 ug/l
RT: 15.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:128 Resp: 43494

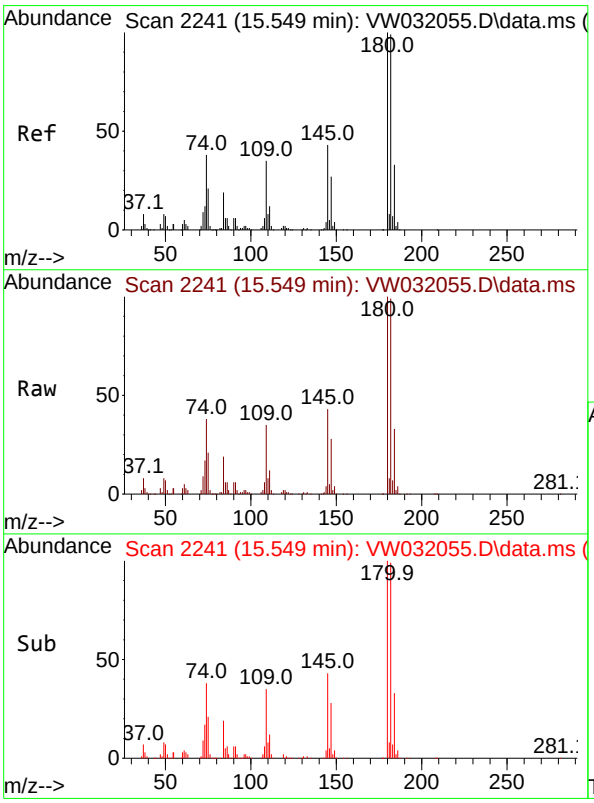
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.3	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

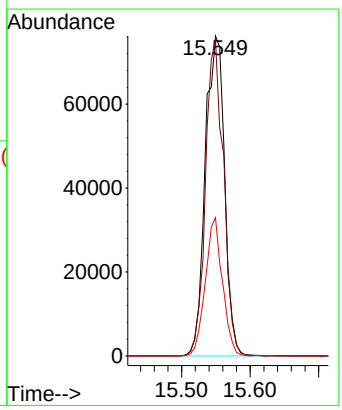
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.022 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:180 Resp: 149556

Ion	Ratio	Lower	Upper
180	100		
182	92.0	46.0	138.0
145	38.4	19.2	57.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

08/12/2025
Supervised By :Semsettin Yesilyurt

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.965	168	221384	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	424901	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.629	117	387705	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	180763	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.313	65	315411	98.509 ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 197.020%#		
35) Dibromofluoromethane	7.898	113	266117	96.945 ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 193.900%#		
50) Toluene-d8	10.325	98	1005940	99.078 ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 198.160%#		
62) 4-Bromofluorobenzene	12.617	95	372416	99.536 ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 199.080%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.040	85	140330	88.627 ug/l	100
3) Chloromethane	2.253	50	200261	93.894 ug/l	99
4) Vinyl Chloride	2.405	62	239040	92.654 ug/l	94
5) Bromomethane	2.820	94	182687	94.386 ug/l	96
6) Chloroethane	2.966	64	164961	96.628 ug/l	98
7) Trichlorofluoromethane	3.295	101	182663	88.382 ug/l	96
8) Diethyl Ether	3.716	74	164632	97.227 ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	224293	91.988 ug/l	100
10) Methyl Iodide	4.301	142	336162	97.237 ug/l	99
11) Tert butyl alcohol	5.216	59	99671	480.735 ug/l	100
12) 1,1-Dichloroethene	4.070	96	251341	93.615 ug/l	92
13) Acrolein	3.923	56	148403	449.230 ug/l	100
14) Allyl chloride	4.698	41	385062	98.543 ug/l	99
15) Acrylonitrile	5.393	53	388290	481.445 ug/l	99
16) Acetone	4.155	43	328664	443.358 ug/l	100
17) Carbon Disulfide	4.417	76	693616	96.248 ug/l	97
18) Methyl Acetate	4.704	43	218695	93.230 ug/l	98
19) Methyl tert-butyl Ether	5.460	73	473924	100.184 ug/l	99
20) Methylene Chloride	4.954	84	285049	83.165 ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	281466	98.787 ug/l	98
22) Diisopropyl ether	6.332	45	829703	100.722 ug/l	98
23) Vinyl Acetate	6.277	43	2803250	518.312 ug/l	100
24) 1,1-Dichloroethane	6.240	63	519360	98.678 ug/l	99
25) 2-Butanone	7.191	43	515739	489.508 ug/l	99
26) 2,2-Dichloropropane	7.185	77	249271	94.405 ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	343091	103.016 ug/l	97
28) Bromochloromethane	7.526	49	230727	96.333 ug/l	100
29) Tetrahydrofuran	7.551	42	338578	487.284 ug/l	99
30) Chloroform	7.685	83	550232	98.613 ug/l	96
31) Cyclohexane	7.965	56	416558	91.292 ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	384671	94.913 ug/l	99
36) 1,1-Dichloropropene	8.093	75	373215	96.444 ug/l	99
37) Ethyl Acetate	7.270	43	221929	97.375 ug/l	99
38) Carbon Tetrachloride	8.081	117	362373	97.035 ug/l	91
39) Methylcyclohexane	9.337	83	459134	97.342 ug/l	97
40) Benzene	8.331	78	1160107	96.444 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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Quant Title : SW846 8260
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	135773	105.048	ug/l		97
42) 1,2-Dichloroethane	8.410	62	364674	94.743	ug/l		100
43) Isopropyl Acetate	8.435	43	413211	98.543	ug/l		99
44) Trichloroethene	9.093	130	270995	94.602	ug/l		99
45) 1,2-Dichloropropane	9.374	63	278124	95.707	ug/l		99
46) Dibromomethane	9.465	93	177966	94.888	ug/l		98
47) Bromodichloromethane	9.648	83	422958	97.867	ug/l		98
48) Methyl methacrylate	9.441	41	202632	100.098	ug/l		98
49) 1,4-Dioxane	9.459	88	46383	1912.696	ug/l		99
51) 4-Methyl-2-Pentanone	10.209	43	1127080	476.209	ug/l		99
52) Toluene	10.386	92	753592	99.464	ug/l		96
53) t-1,3-Dichloropropene	10.605	75	410734	101.442	ug/l		95
54) cis-1,3-Dichloropropene	10.075	75	468972	102.096	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	239507	96.099	ug/l		97
56) Ethyl methacrylate	10.642	69	348446	104.477	ug/l		99
57) 1,3-Dichloropropane	10.934	76	412949	95.056	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	948129	513.956	ug/l		99
59) 2-Hexanone	10.965	43	793810	484.283	ug/l		99
60) Dibromochloromethane	11.129	129	282060	99.074	ug/l		99
61) 1,2-Dibromoethane	11.233	107	240542	99.317	ug/l		99
64) Tetrachloroethene	10.867	164	213297	95.247	ug/l		94
65) Chlorobenzene	11.654	112	808609	95.819	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	253284	96.197	ug/l		97
67) Ethyl Benzene	11.727	91	1418619	99.243	ug/l		96
68) m/p-Xylenes	11.837	106	1089143	197.459	ug/l		97
69) o-Xylene	12.166	106	523329	102.652	ug/l		97
70) Styrene	12.178	104	916019	101.158	ug/l		100
71) Bromoform	12.349	173	145781	96.794	ug/l	#	92
73) Isopropylbenzene	12.458	105	1299533	102.870	ug/l		100
74) N-amyl acetate	12.269	43	378722	104.494	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	286977	95.677	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	208848m	75.158	ug/l		
77) Bromobenzene	12.745	156	311049	103.091	ug/l		96
78) n-propylbenzene	12.800	91	1589147	102.177	ug/l		99
79) 2-Chlorotoluene	12.891	91	974324	101.505	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	1092987	101.912	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	98906	104.370	ug/l		98
82) 4-Chlorotoluene	12.983	91	1013836	99.412	ug/l		99
83) tert-Butylbenzene	13.202	119	922044	103.591	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	1089327	99.778	ug/l		96
85) sec-Butylbenzene	13.379	105	1372324	101.978	ug/l		98
86) p-Isopropyltoluene	13.495	119	1128935	100.630	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	572145	95.298	ug/l		96
88) 1,4-Dichlorobenzene	13.574	146	587417	96.819	ug/l		99
89) n-Butylbenzene	13.818	91	1103362	101.235	ug/l		99
90) Hexachloroethane	14.086	117	204823	99.832	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	524204	96.387	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	50993	95.632	ug/l		97
93) 1,2,4-Trichlorobenzene	15.129	180	338661	104.094	ug/l		97
94) Hexachlorobutadiene	15.226	225	138434	95.189	ug/l		98
95) Naphthalene	15.360	128	841296	105.533	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	313033	105.748	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

08/12/2025

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Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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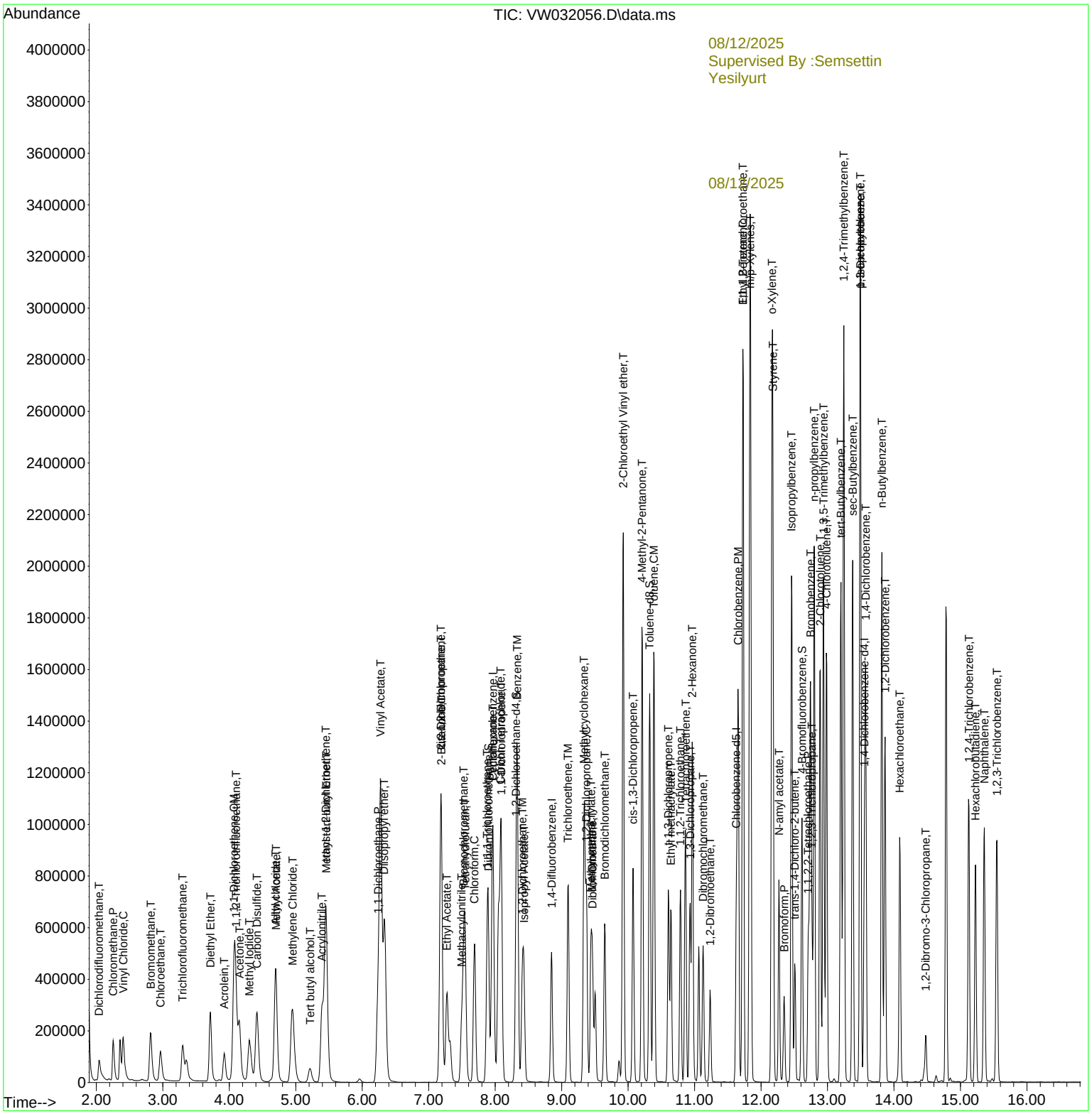

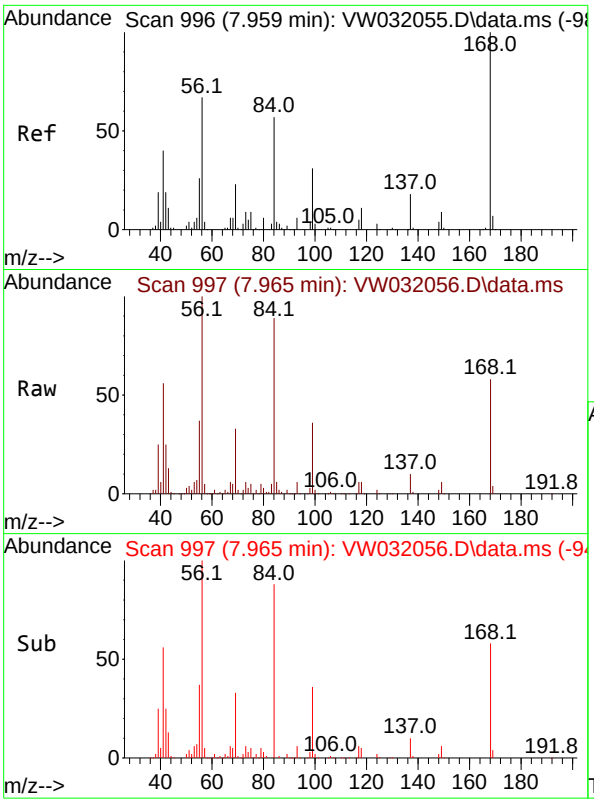

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:168 Resp: 22138

Ion	Ratio	Lower	Upper
168	100		
99	60.8	56.0	84.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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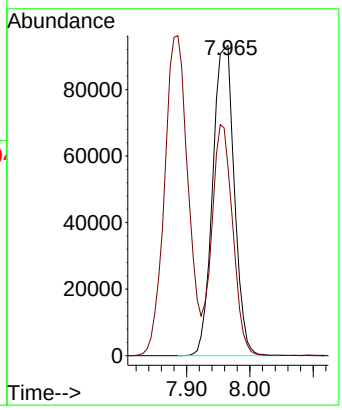

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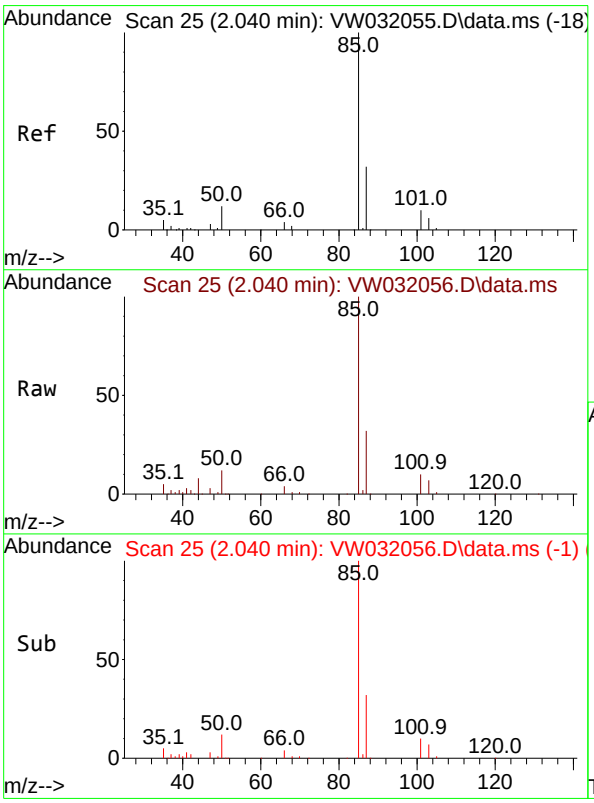
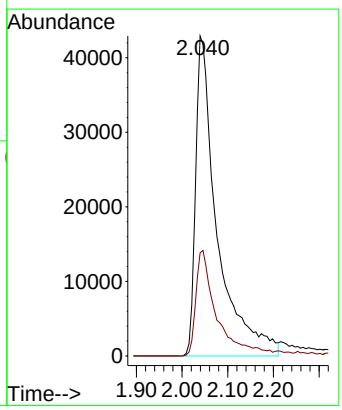
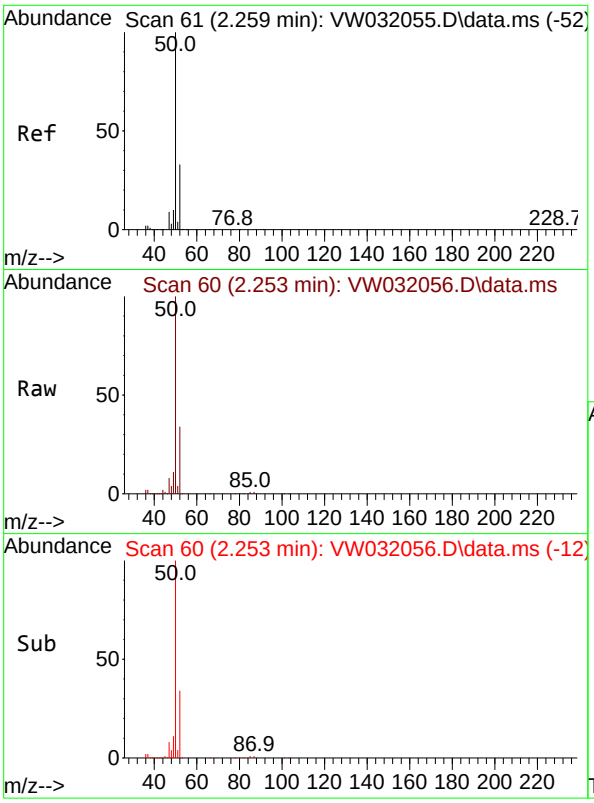


#2
Dichlorodifluoromethane
Concen: 88.627 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 85 Resp: 140330

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6

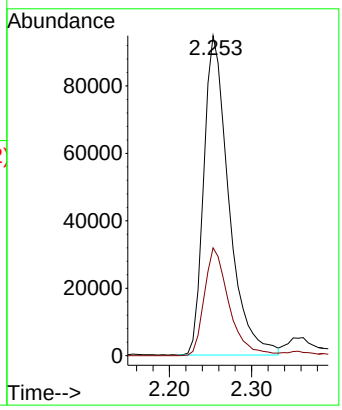




#3
Chloromethane
Concen: 93.894 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 50 Resp: 20026

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.6	39.8



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ClientSampleId :
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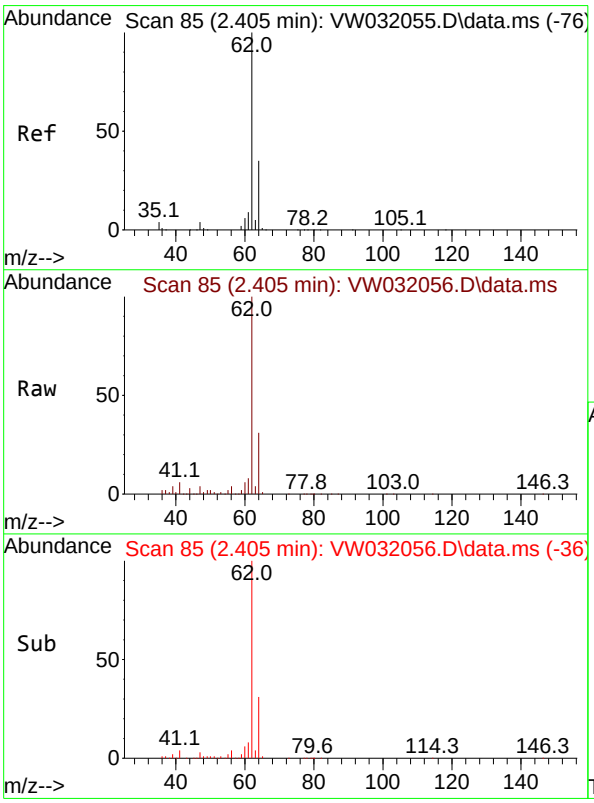
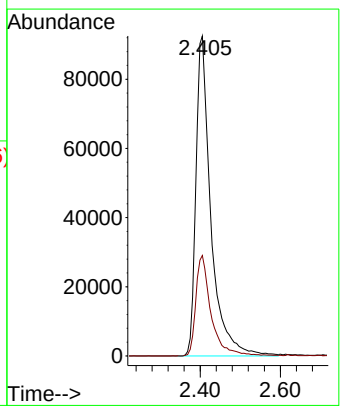
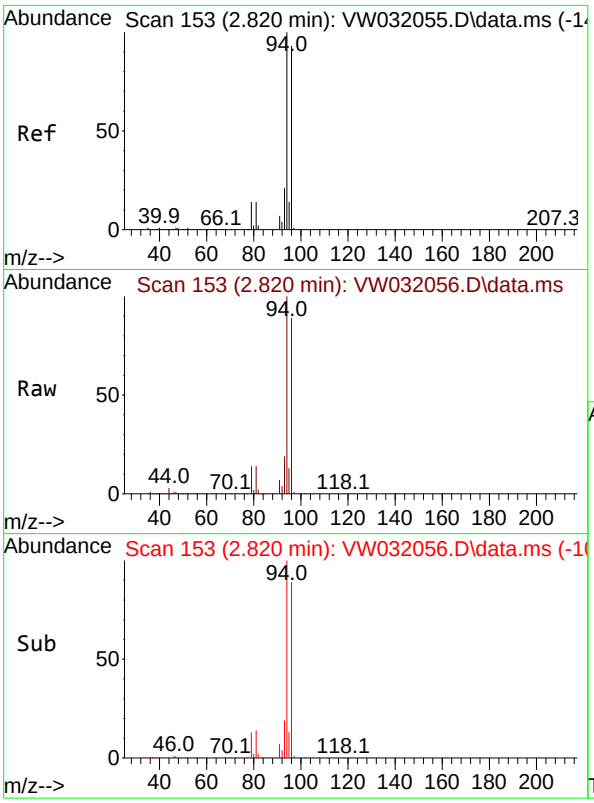


#4
Vinyl Chloride
Concen: 92.654 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 239040

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.8	41.6





#5
Bromomethane
Concen: 94.386 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 94 Resp: 18268

Ion	Ratio	Lower	Upper
94	100		
96	89.4	74.7	112.1

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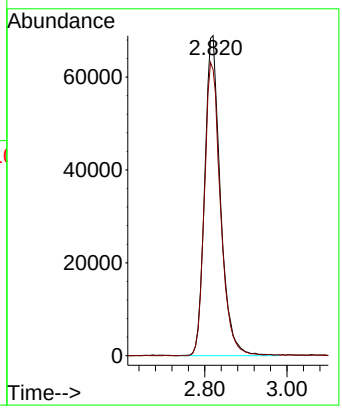

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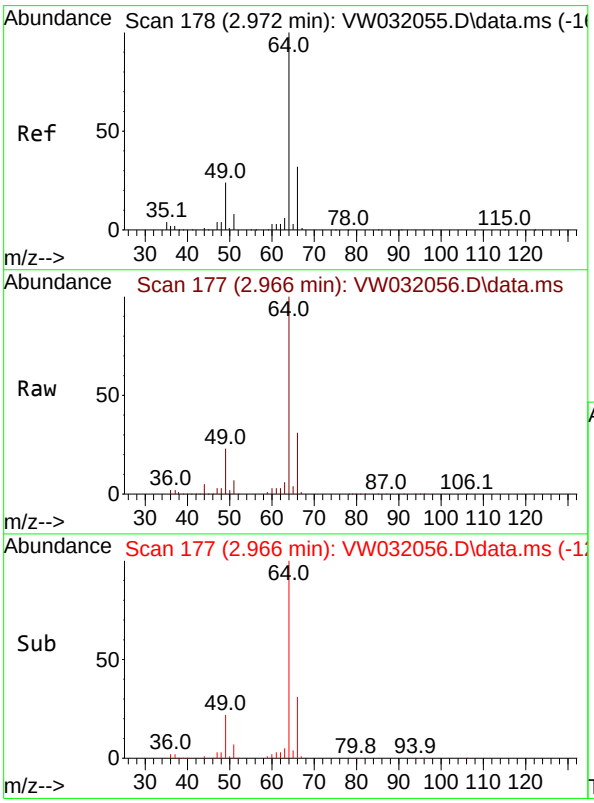
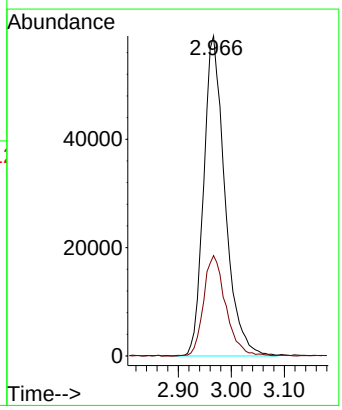
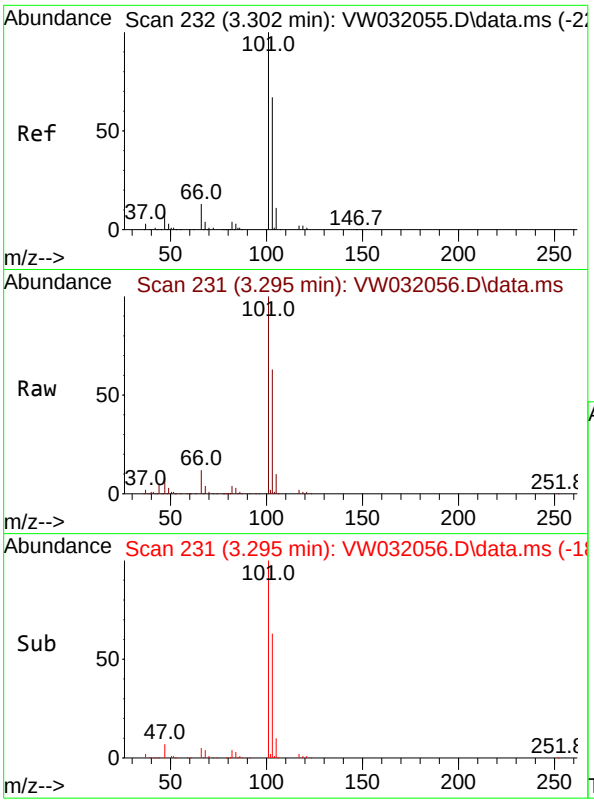


#6
Chloroethane
Concen: 96.628 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 64 Resp: 164961

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.0	39.0

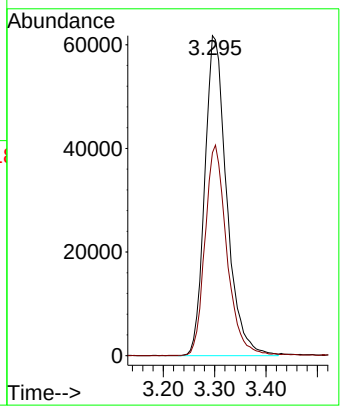




#7
Trichlorofluoromethane
Concen: 88.382 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:101 Resp: 18266

Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.4	80.0



Instrument :
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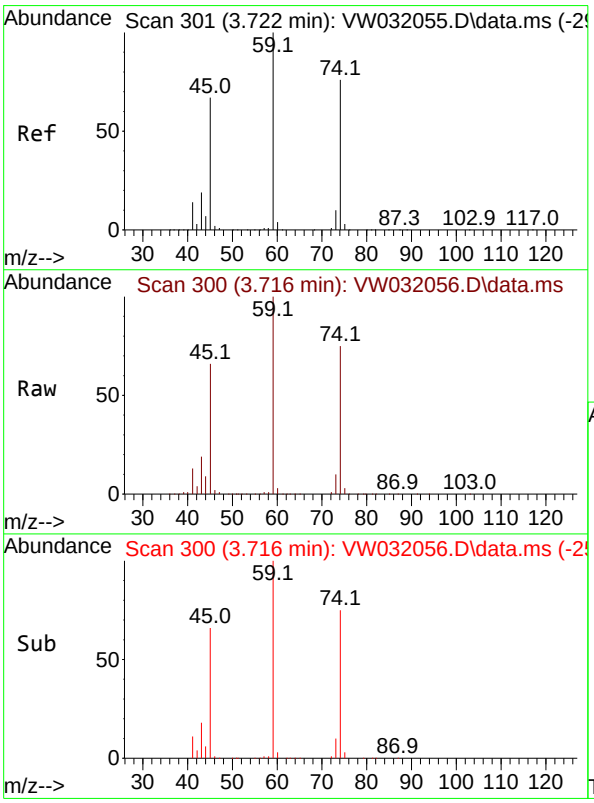
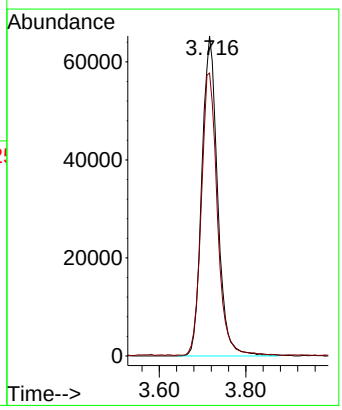
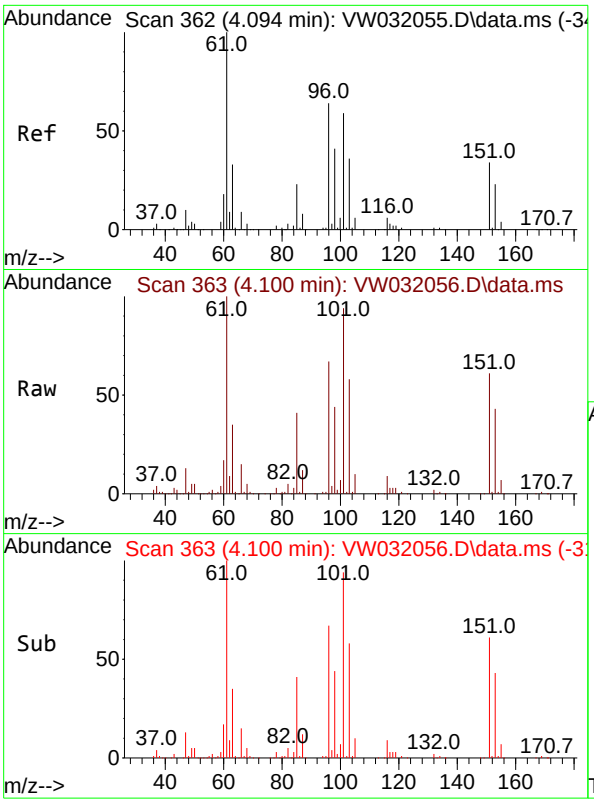


#8
Diethyl Ether
Concen: 97.227 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 74 Resp: 164632

Ion	Ratio	Lower	Upper
74	100		
45	90.1	45.4	136.2

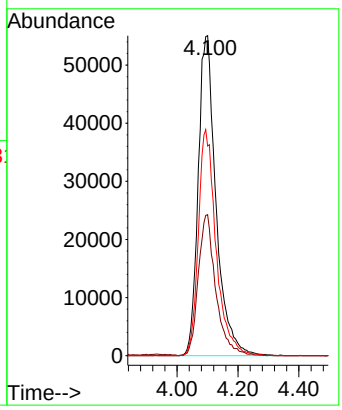




#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.988 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:101 Resp: 22429

Ion	Ratio	Lower	Upper
101	100		
85	43.3	34.9	52.3
151	70.2	56.2	84.4



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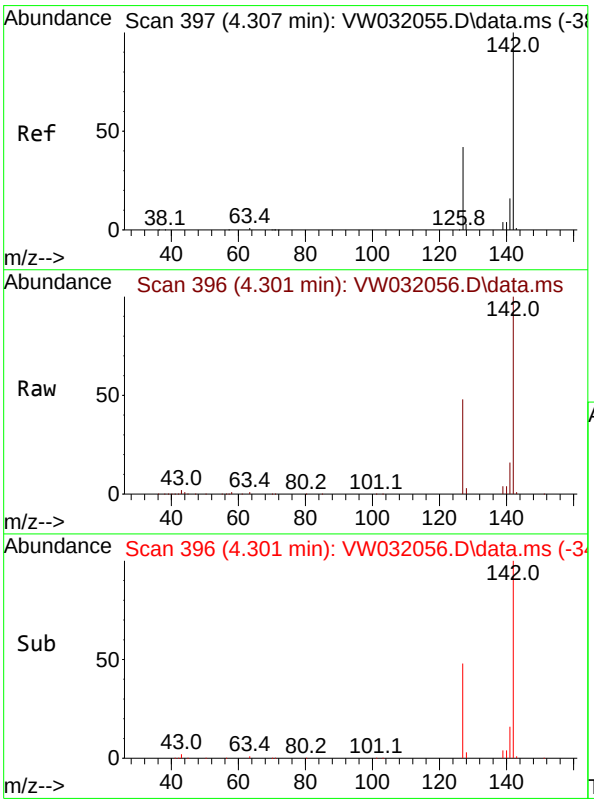
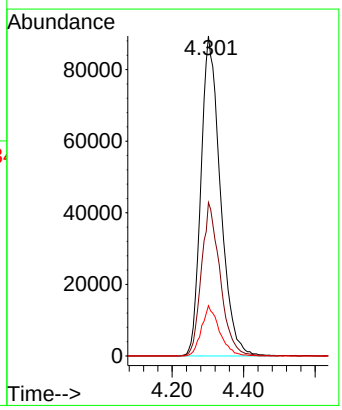
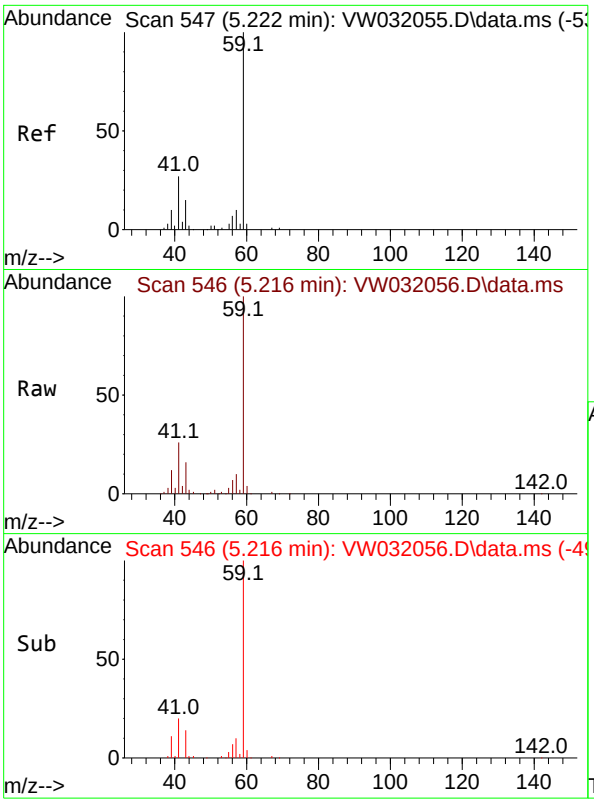


#10
Methyl Iodide
Concen: 97.237 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:142 Resp: 336162

Ion	Ratio	Lower	Upper
142	100		
127	46.2	36.6	55.0
141	14.5	12.1	18.1





#11
Tert butyl alcohol
Concen: 480.735 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 59 Resp: 9967

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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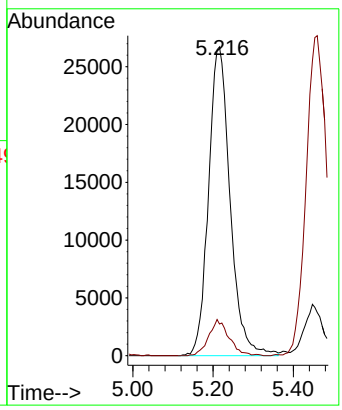

Supervised By :Semsettin Yesilyurt

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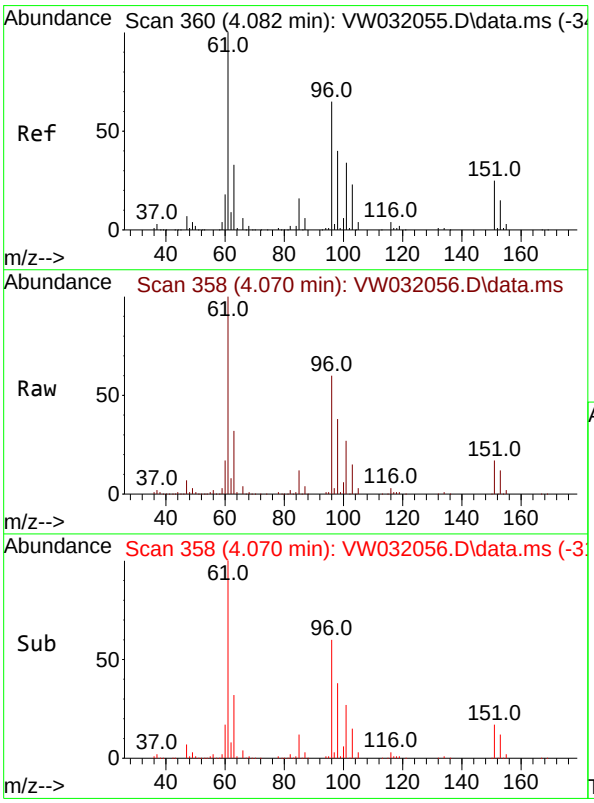
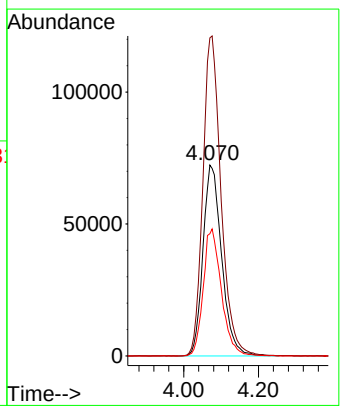
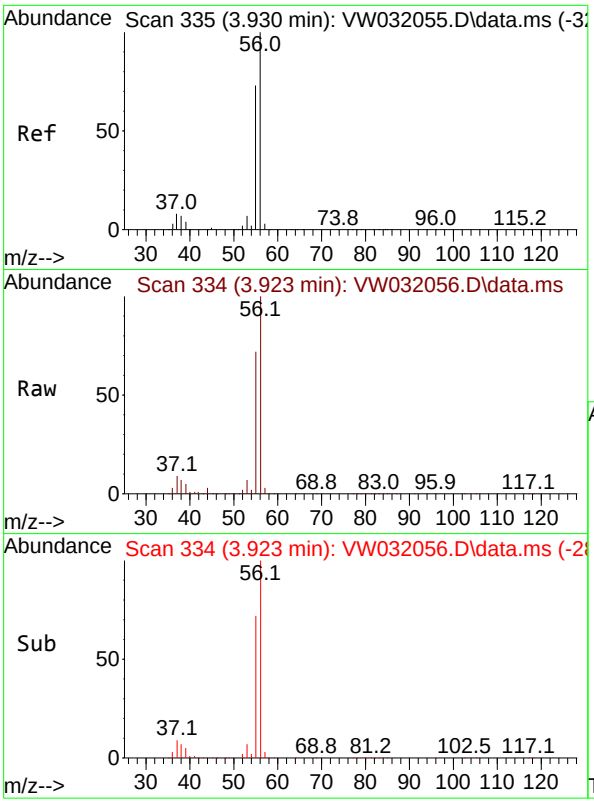


#12
1,1-Dichloroethene
Concen: 93.615 ug/l
RT: 4.070 min Scan# 358
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 251341

Ion	Ratio	Lower	Upper
96	100		
61	166.5	123.4	185.2
98	64.0	49.5	74.3





#13
Acrolein
Concen: 449.230 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 56 Resp: 14840

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.4	83.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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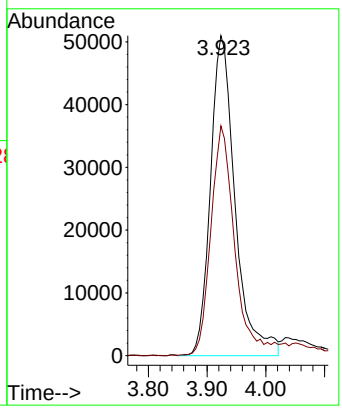

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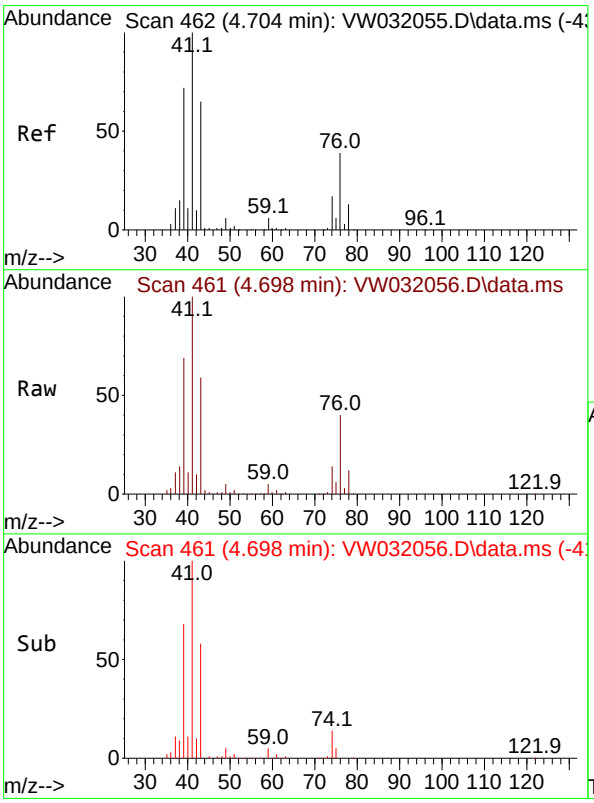
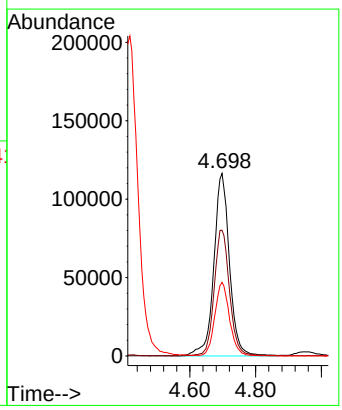
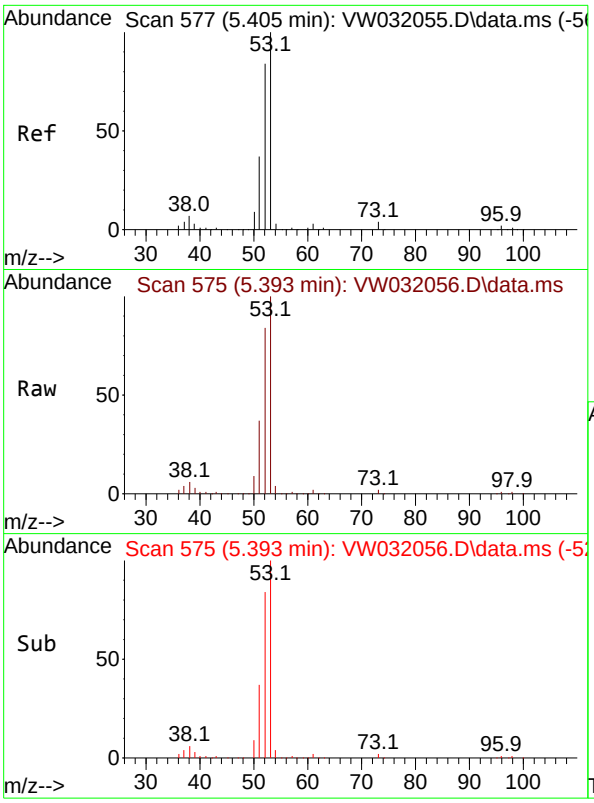


#14
Allyl chloride
Concen: 98.543 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 385062

Ion	Ratio	Lower	Upper
41	100		
39	67.5	54.5	81.7
76	37.8	29.3	43.9

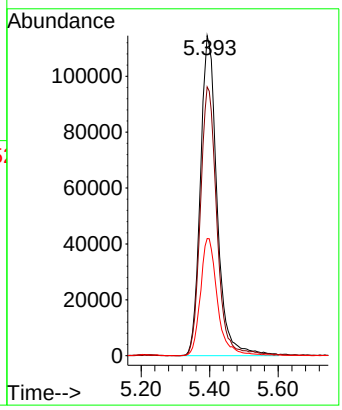




#15
Acrylonitrile
Concen: 481.445 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 53 Resp: 38829

Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.1	99.1
51	37.3	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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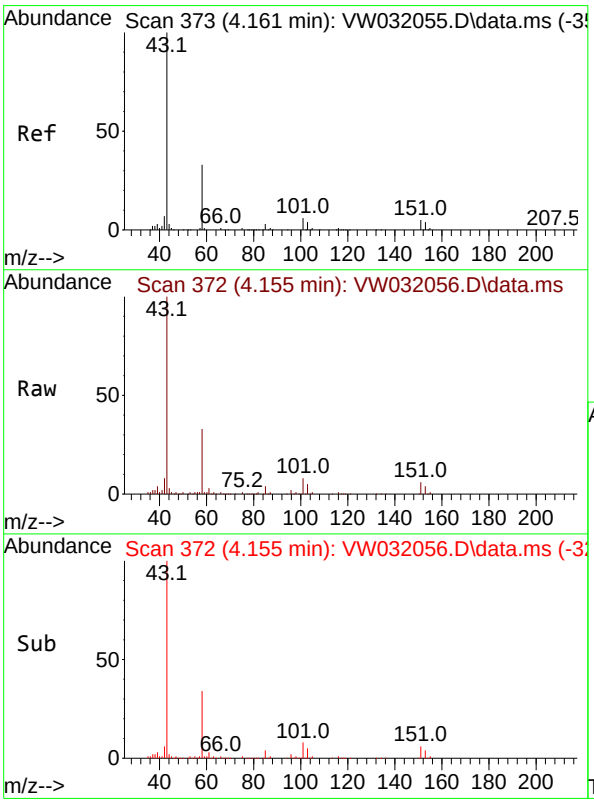
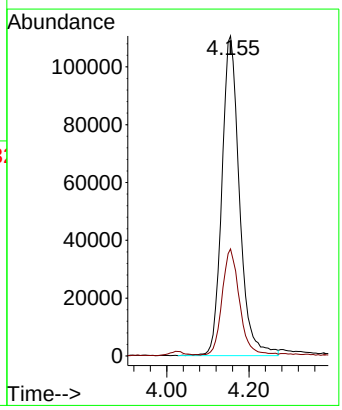
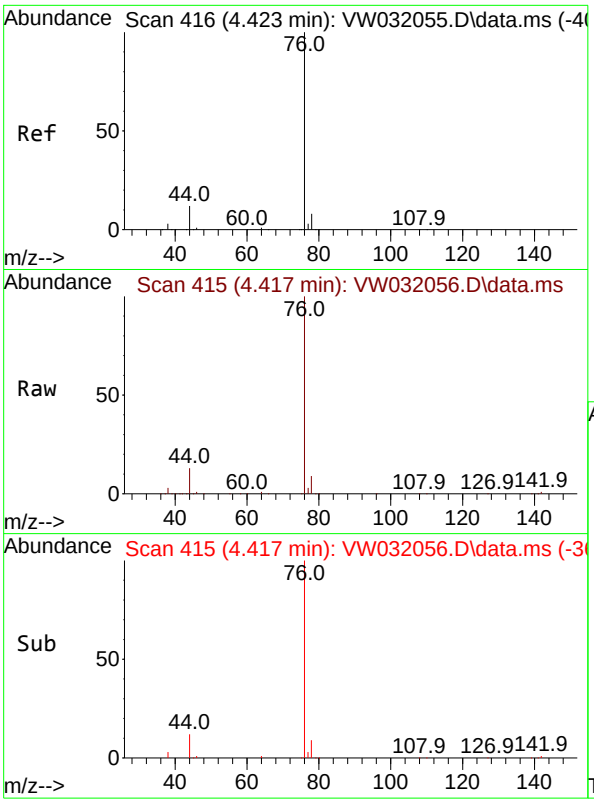


#16
Acetone
Concen: 443.358 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 328664

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8





#17
Carbon Disulfide
Concen: 96.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 76 Resp: 69361

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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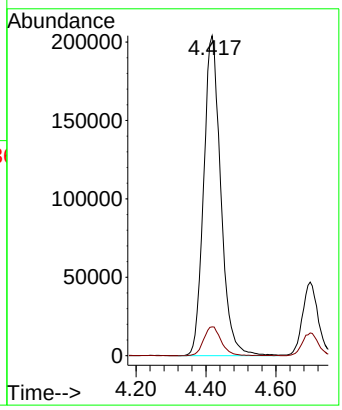

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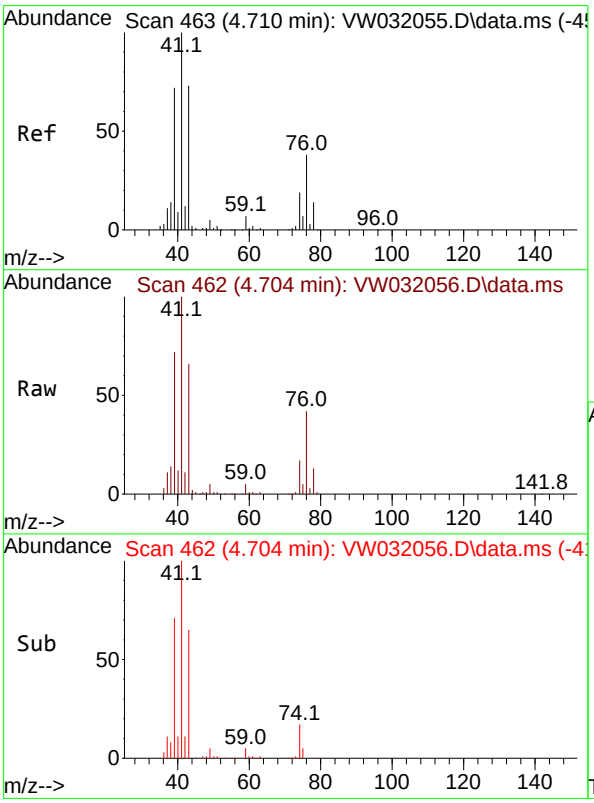
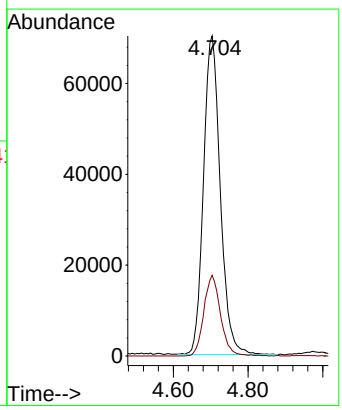
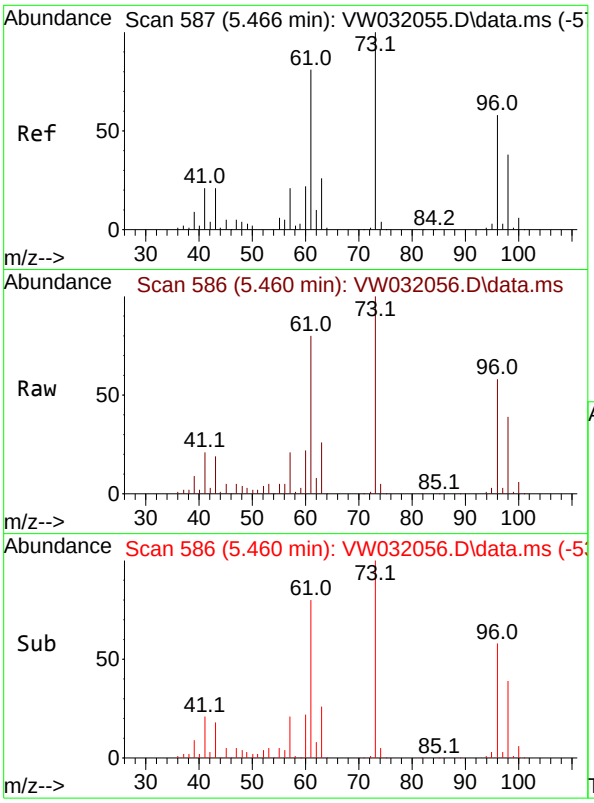


#18
Methyl Acetate
Concen: 93.230 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 218695

Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.6	31.0

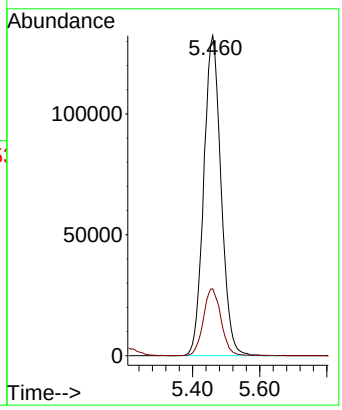




#19
Methyl tert-butyl Ether
Concen: 100.184 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 73 Resp: 47392

Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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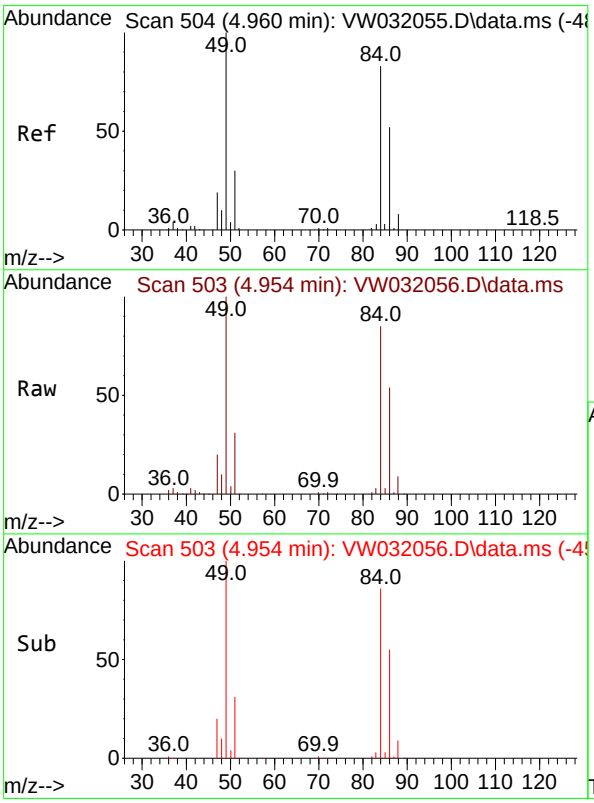
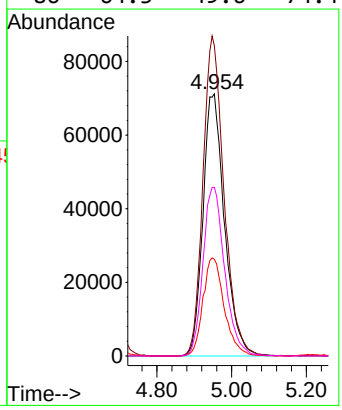
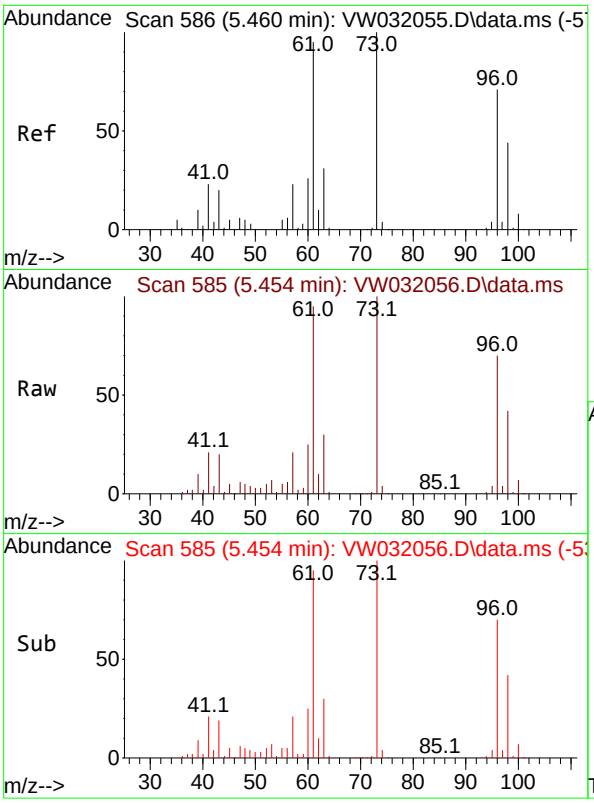


#20
Methylene Chloride
Concen: 83.165 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 84 Resp: 285049

Ion	Ratio	Lower	Upper
84	100		
49	118.3	95.9	143.9
51	36.8	28.6	43.0
86	64.3	49.6	74.4

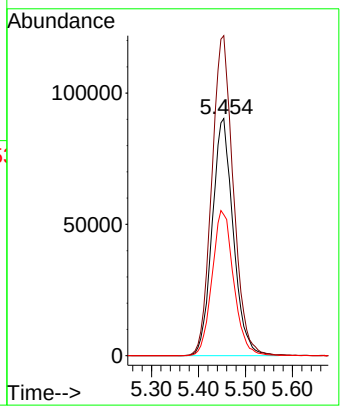




#21
trans-1,2-Dichloroethene
Concen: 98.787 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 28146

Ion	Ratio	Lower	Upper
96	100		
61	135.0	106.8	160.2
98	59.5	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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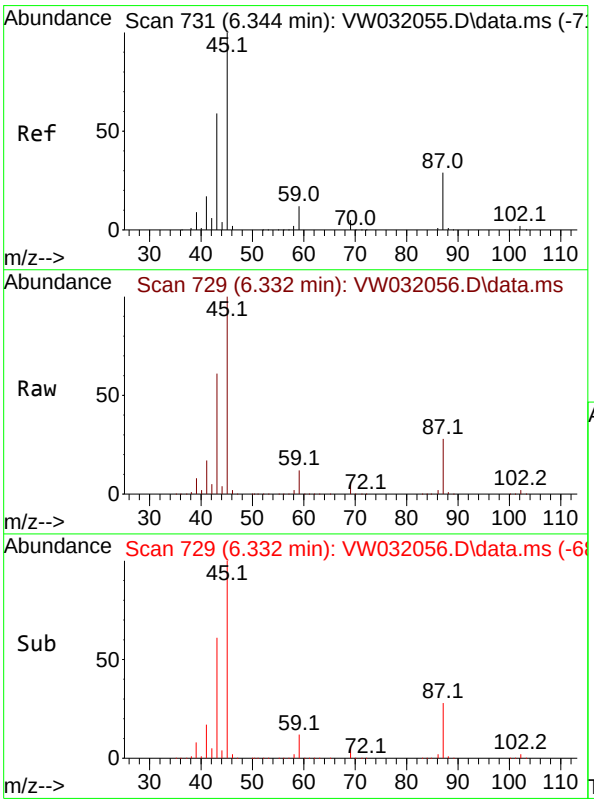
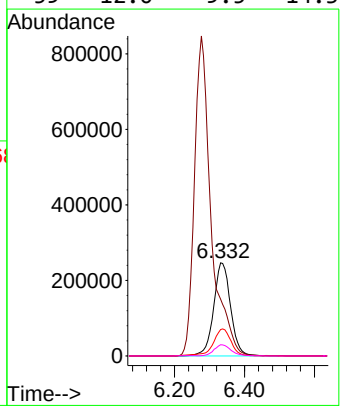
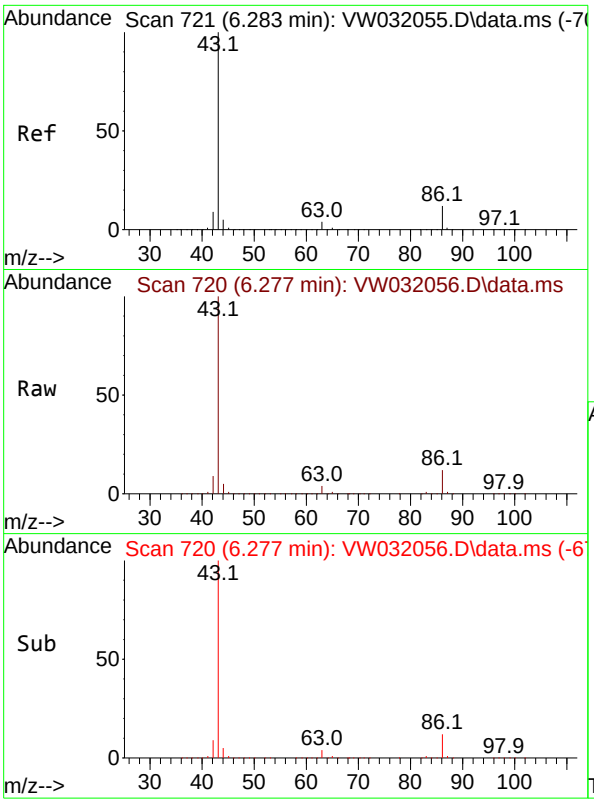


#22
Diisopropyl ether
Concen: 100.722 ug/l
RT: 6.332 min Scan# 729
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 45 Resp: 829703

Ion	Ratio	Lower	Upper
45	100		
43	60.8	47.0	70.4
87	28.3	23.8	35.8
59	12.0	9.5	14.3

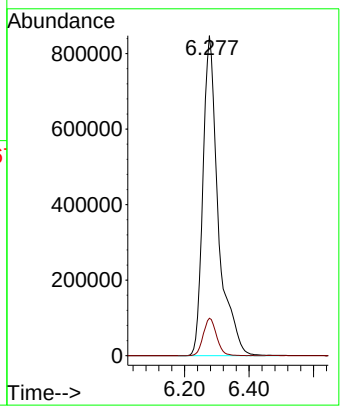




#23
Vinyl Acetate
Concen: 518.312 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 280325

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0



Instrument :
MSVOA_W
ClientSampleId :
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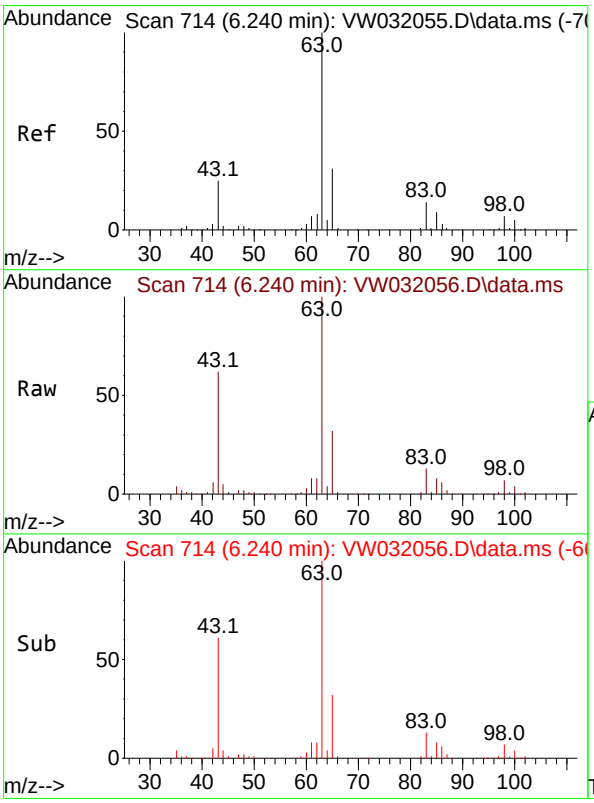
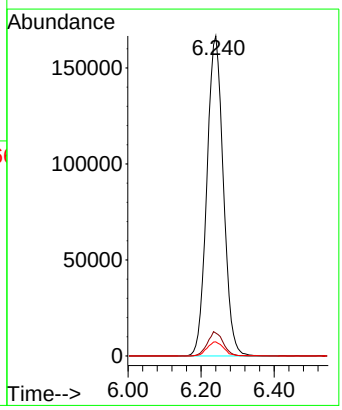
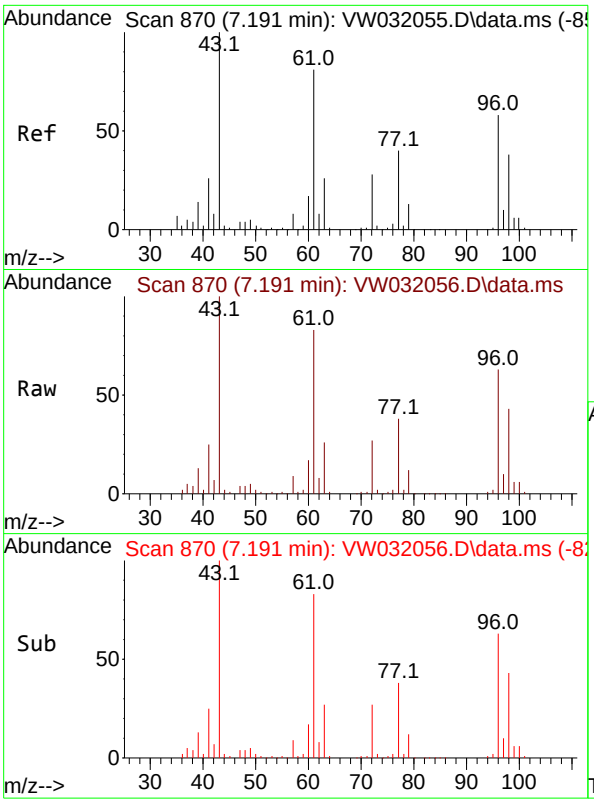


#24
1,1-Dichloroethane
Concen: 98.678 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 519360

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.7	11.1
100	4.4	2.5	7.4





#25
2-Butanone
Concen: 489.508 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 51573

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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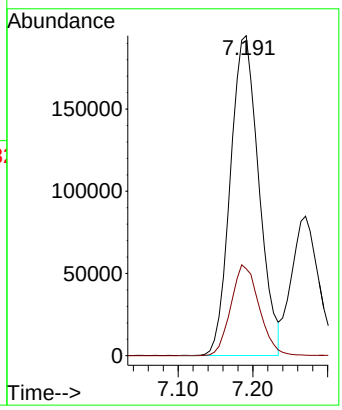

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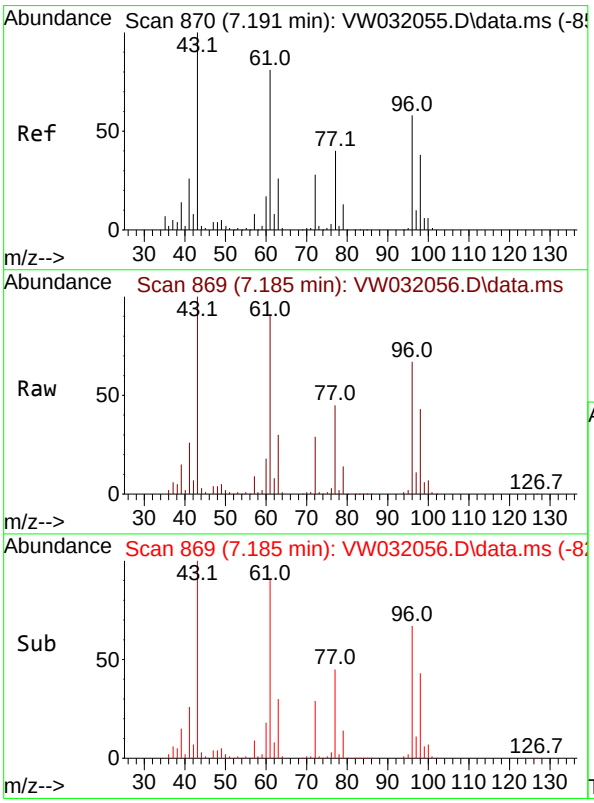
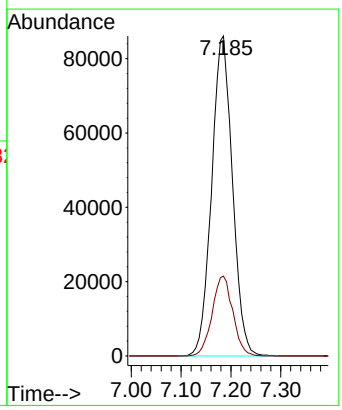
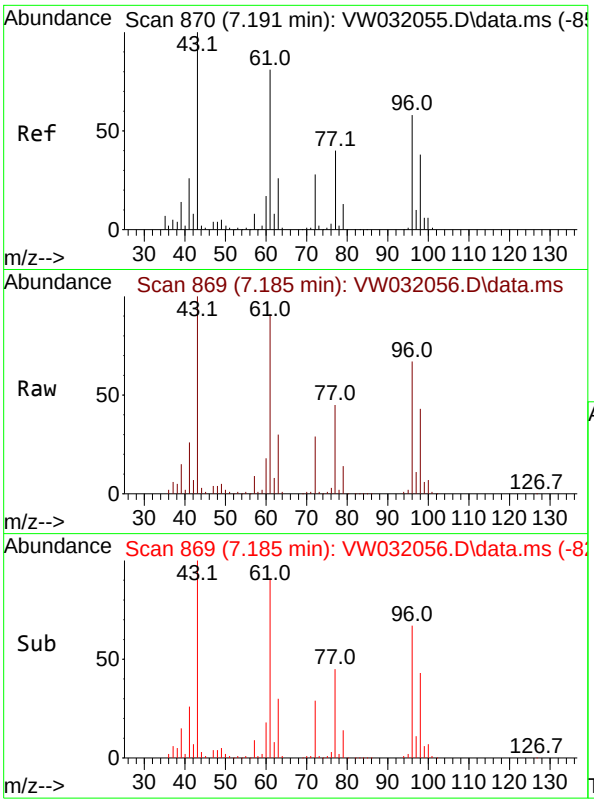


#26
2,2-Dichloropropane
Concen: 94.405 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 77 Resp: 249271

Ion	Ratio	Lower	Upper
77	100		
97	24.8	12.3	36.9

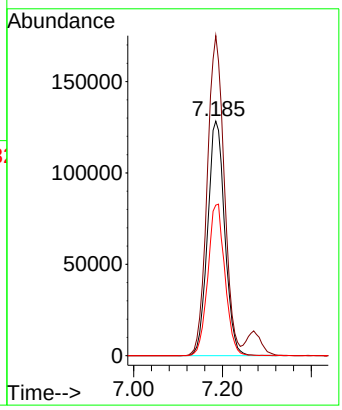




#27
cis-1,2-Dichloroethene
Concen: 103.016 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 34309

Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	281.2
98	64.5	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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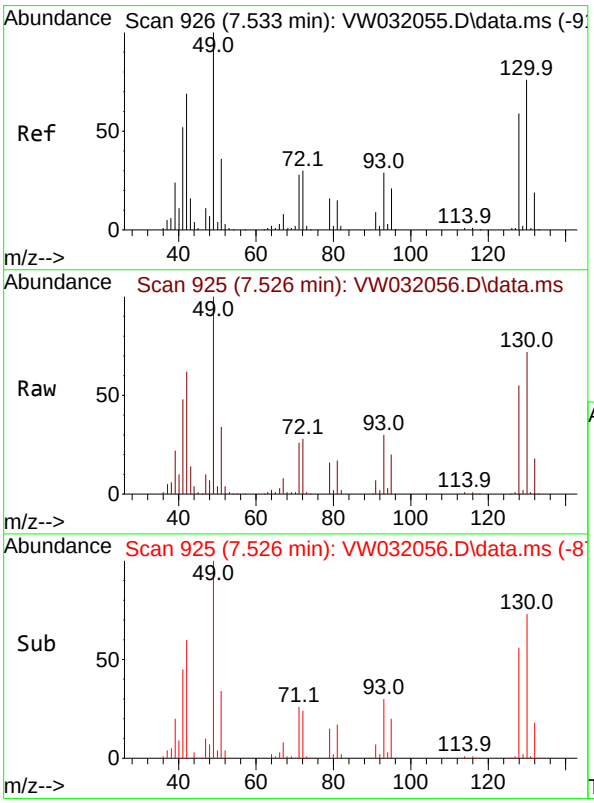
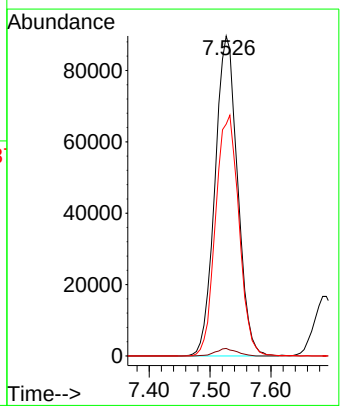
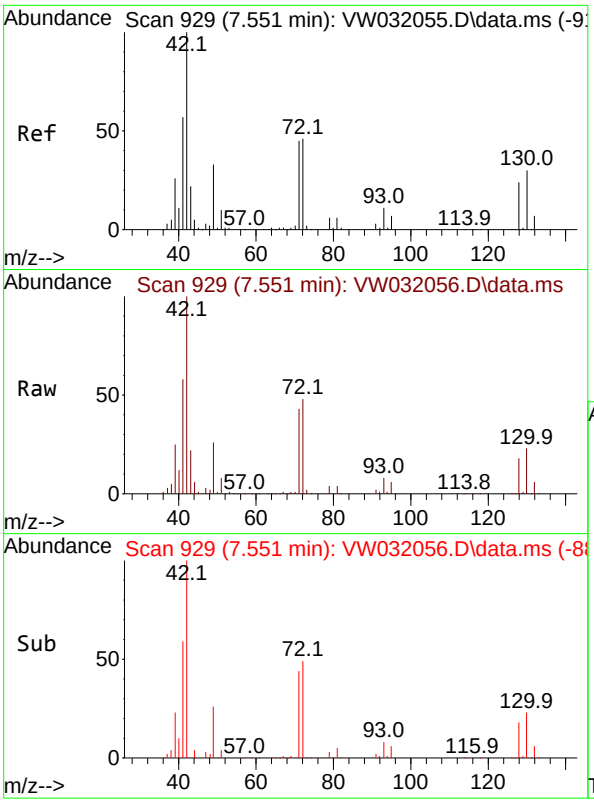


#28
Bromochloromethane
Concen: 96.333 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 49 Resp: 230727

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.8	61.9	92.9

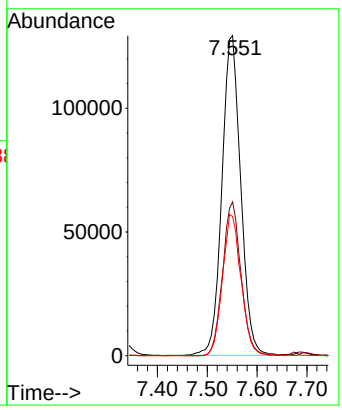




#29
Tetrahydrofuran
Concen: 487.284 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 42 Resp: 33857

Ion	Ratio	Lower	Upper
42	100		
72	47.0	36.6	55.0
71	43.6	34.7	52.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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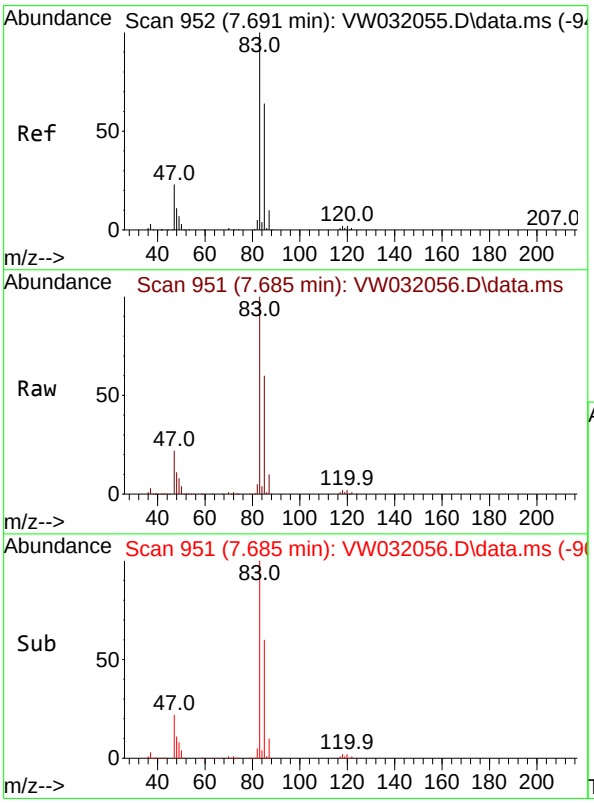
Supervised By :Semsettin Yesilyurt

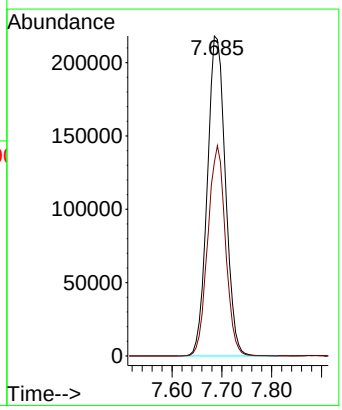
08/12/2025

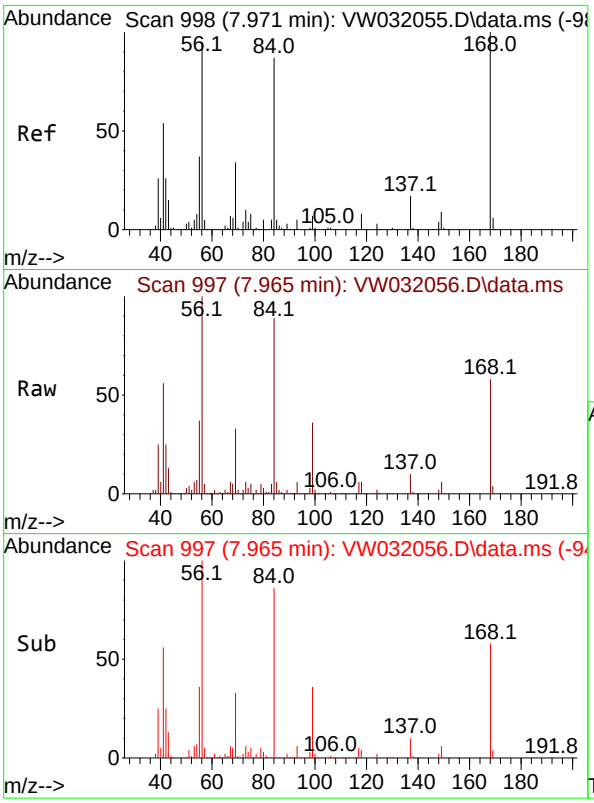


#30
Chloroform
Concen: 98.613 ug/l
RT: 7.685 min Scan# 951
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 550232

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.0	76.4

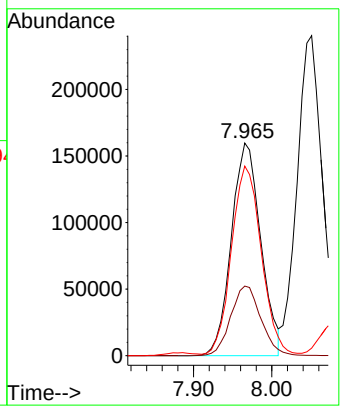




#31
Cyclohexane
Concen: 91.292 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 56 Resp: 41655

Ion	Ratio	Lower	Upper
56	100		
69	32.8	28.6	42.8
84	87.9	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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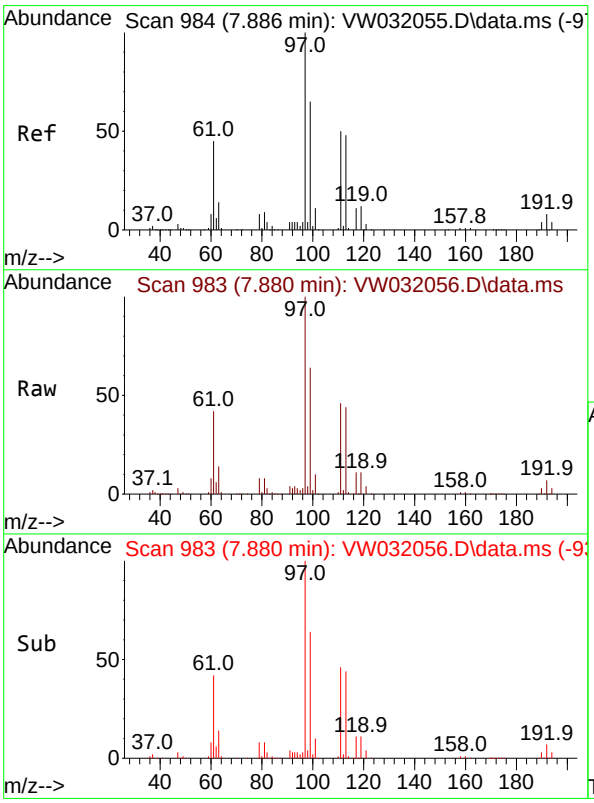
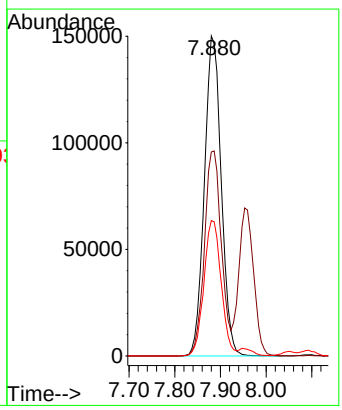
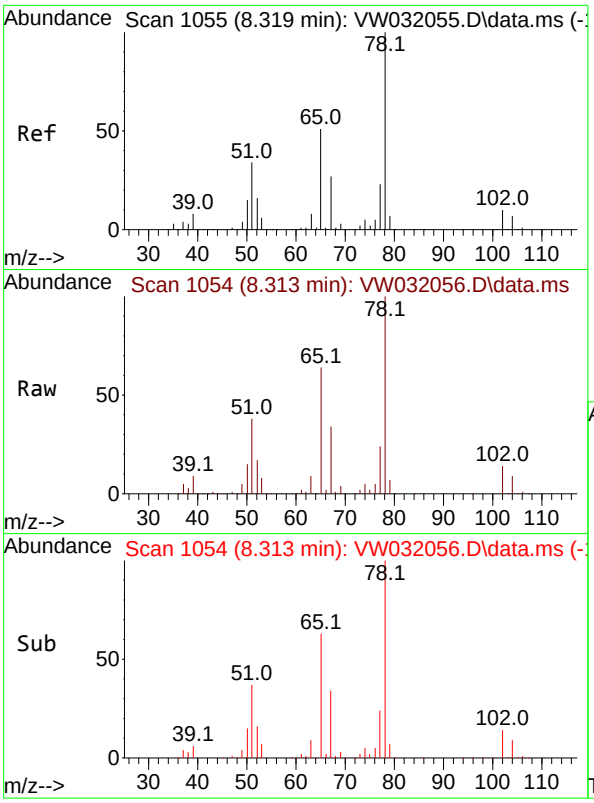


#32
1,1,1-Trichloroethane
Concen: 94.913 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 97 Resp: 384671

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.8
61	43.3	35.9	53.9

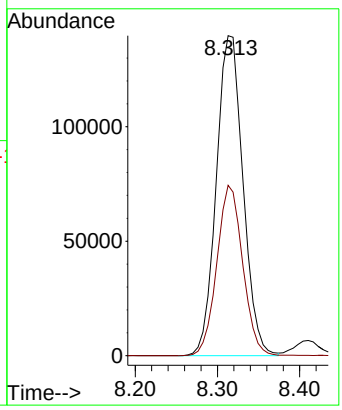




#33
1,2-Dichloroethane-d4
Concen: 98.509 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 65 Resp: 31541

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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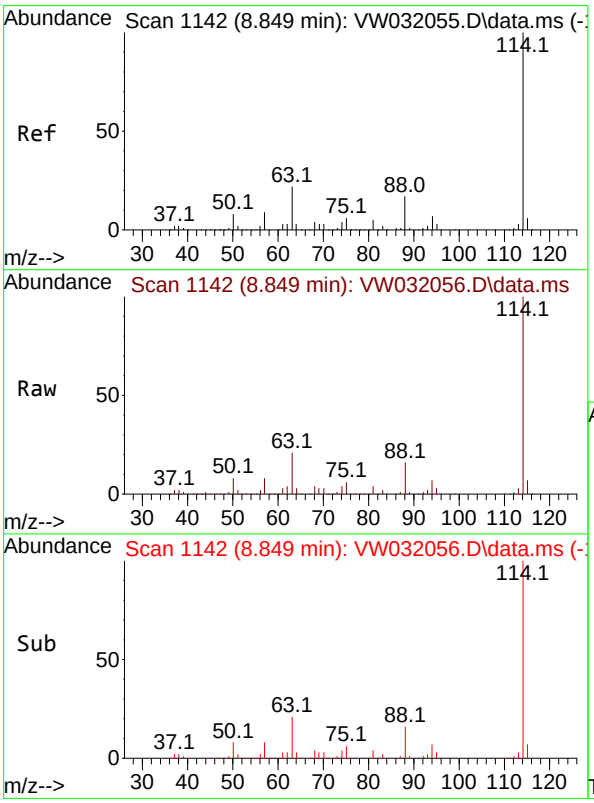
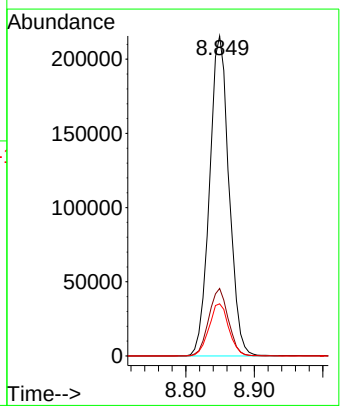
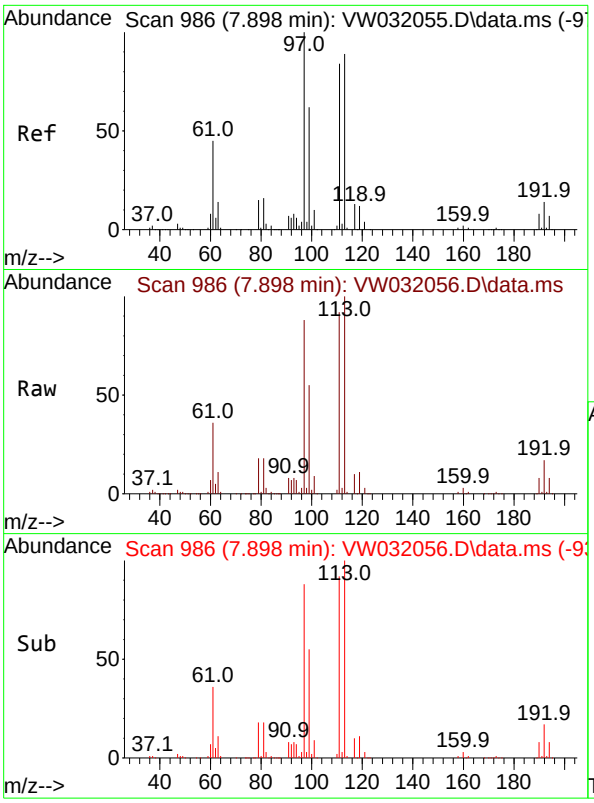


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:114 Resp: 424901

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.0
88	16.3	0.0	33.8





#35
Dibromofluoromethane
Concen: 96.945 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:113 Resp: 26611

Ion	Ratio	Lower	Upper
113	100		
111	104.0	80.1	120.1
192	16.9	13.1	19.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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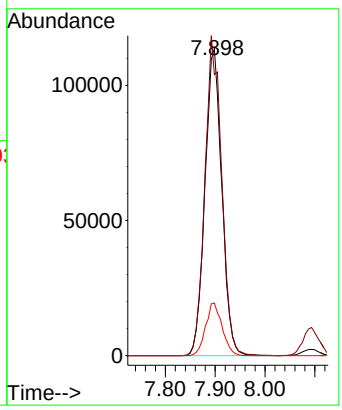

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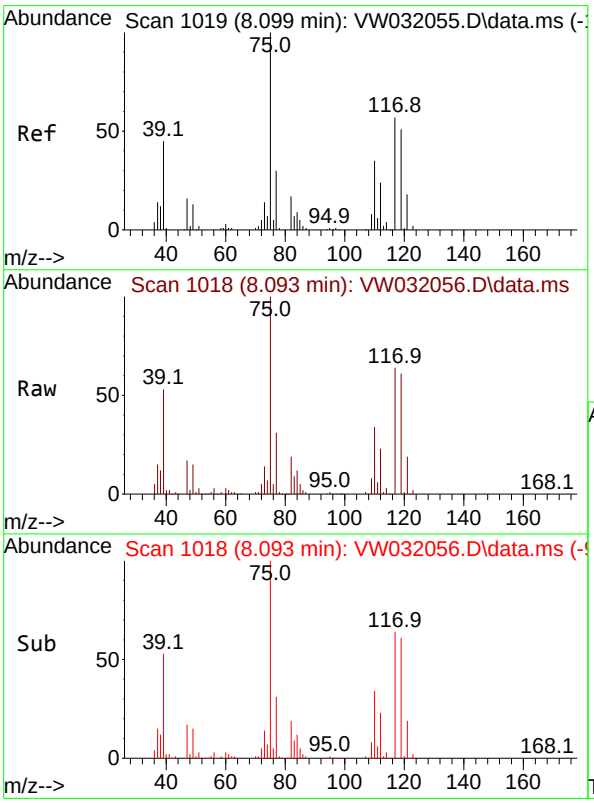
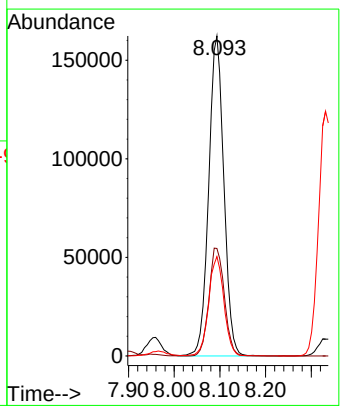


#36
1,1-Dichloropropene
Concen: 96.444 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 373215

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.4	52.2
77	31.3	24.7	37.1



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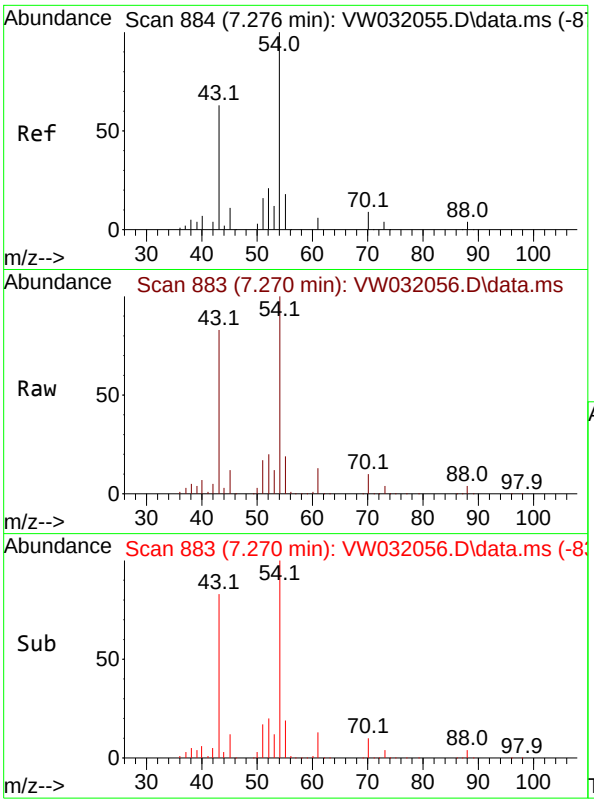

#37
Ethyl Acetate
Concen: 97.375 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 22192

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.8	17.6
70	11.5	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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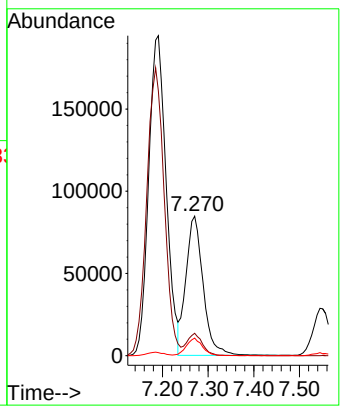

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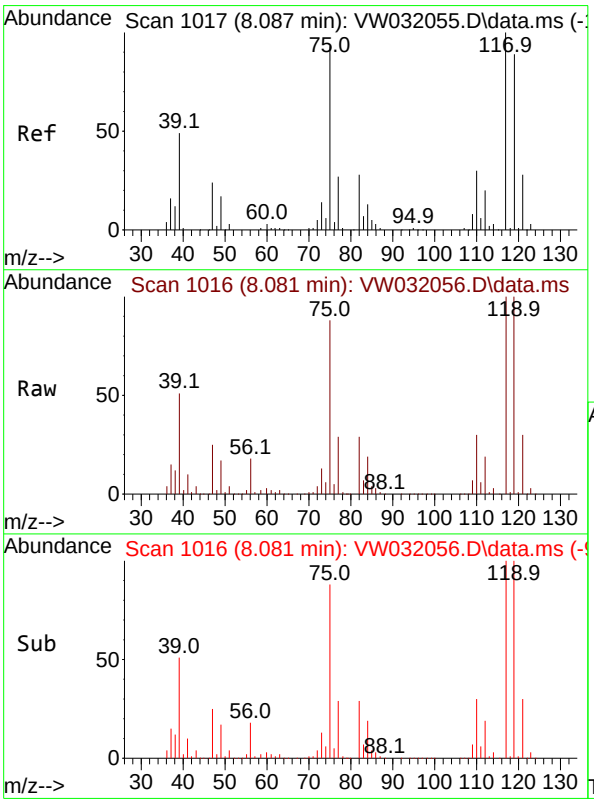
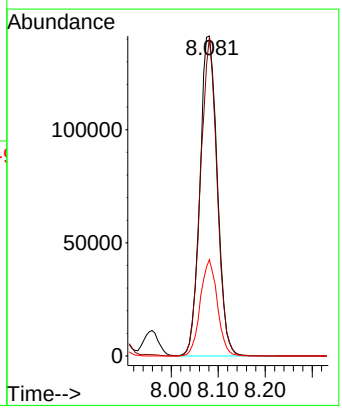
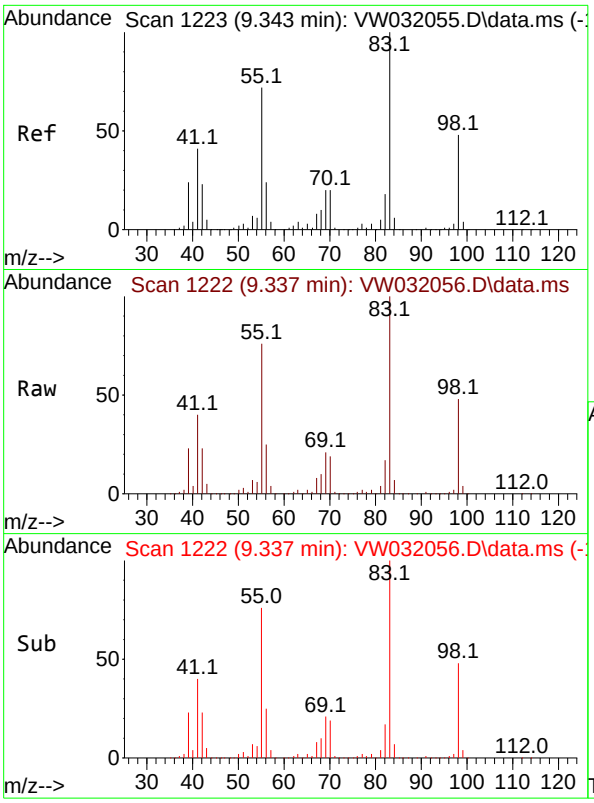


#38
Carbon Tetrachloride
Concen: 97.035 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 362373

Ion	Ratio	Lower	Upper
117	100		
119	99.6	71.4	107.2
121	30.1	22.3	33.5

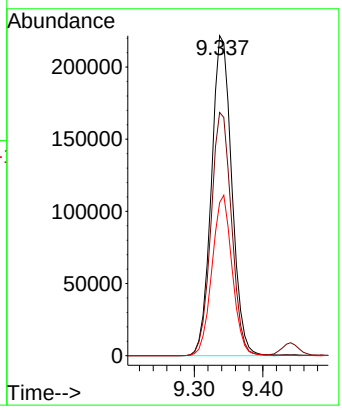




#39
Methylcyclohexane
Concen: 97.342 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 45913

Ion	Ratio	Lower	Upper
83	100		
55	76.0	57.9	86.9
98	47.8	38.3	57.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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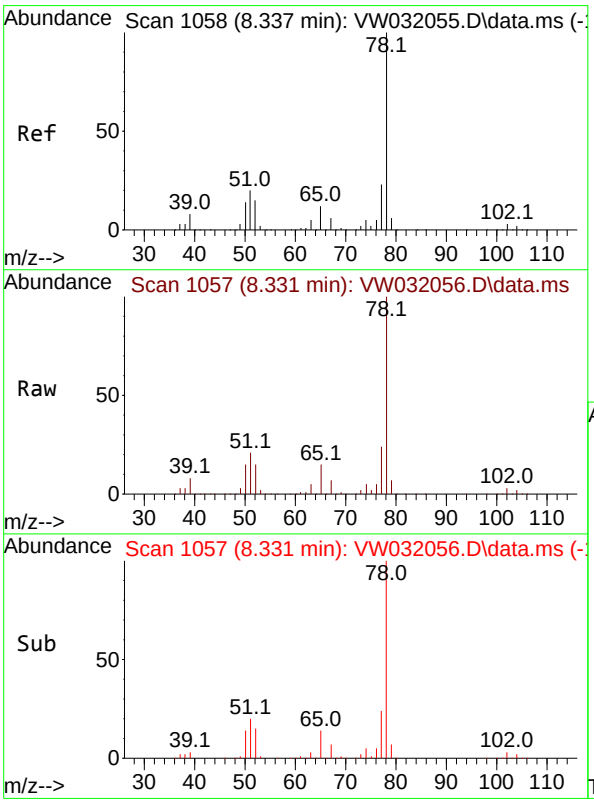
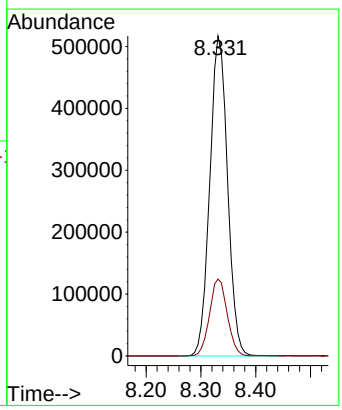
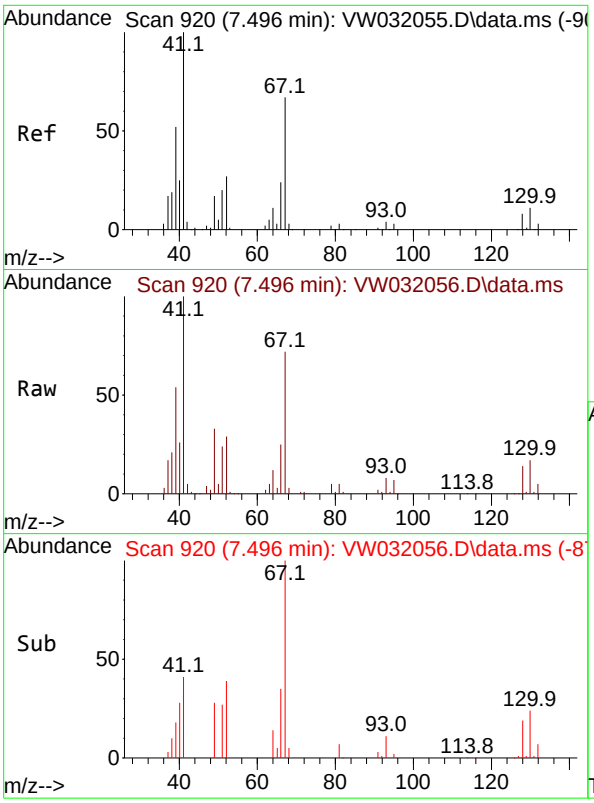


#40
Benzene
Concen: 96.444 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 78 Resp: 1160107

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6

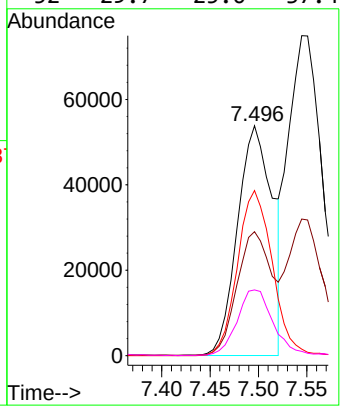




#41
Methacrylonitrile
Concen: 105.048 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 13577

Ion	Ratio	Lower	Upper
41	100		
39	53.6	42.6	63.8
67	71.7	61.0	91.4
52	29.7	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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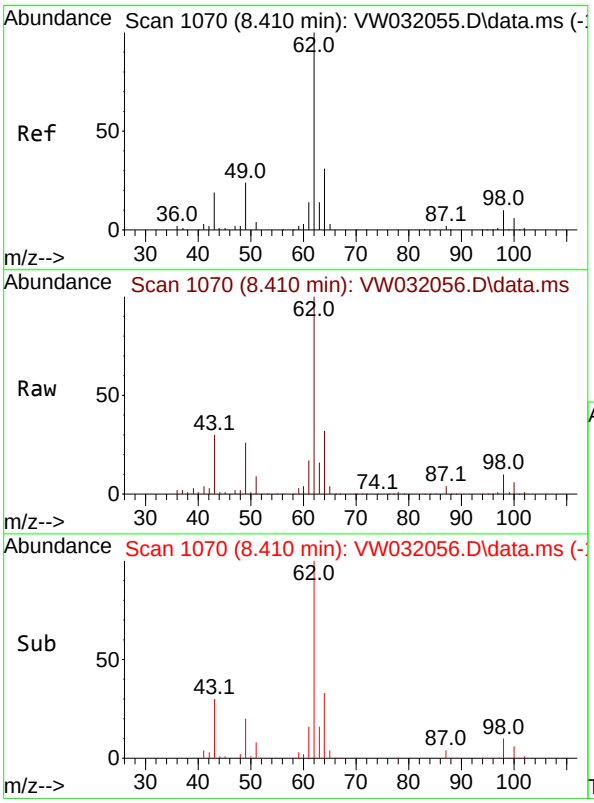
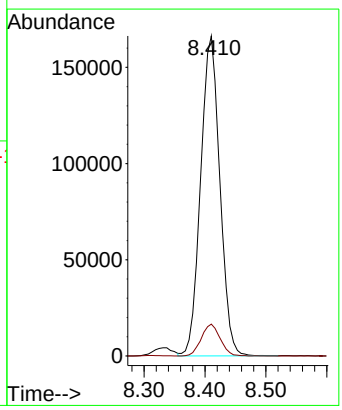
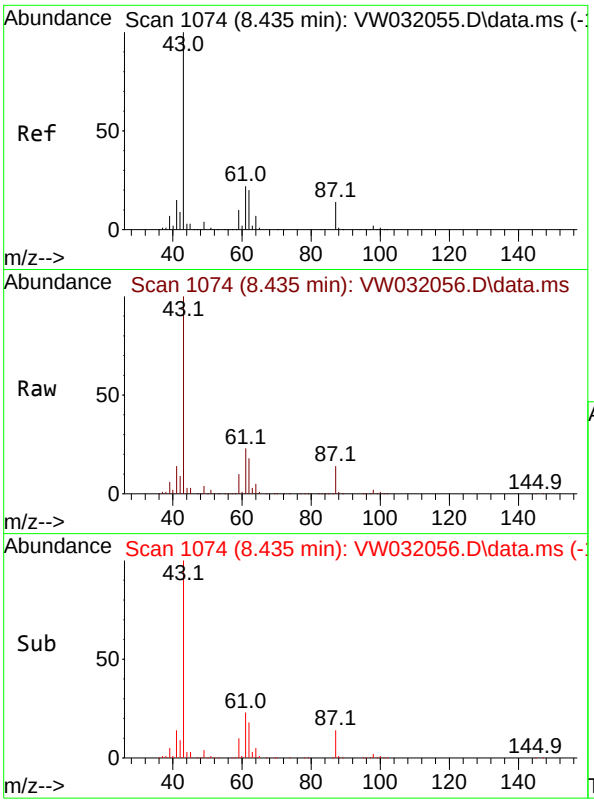


#42
1,2-Dichloroethane
Concen: 94.743 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 364674

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8





#43
Isopropyl Acetate
Concen: 98.543 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 41321

Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.8
87	14.2	11.7	17.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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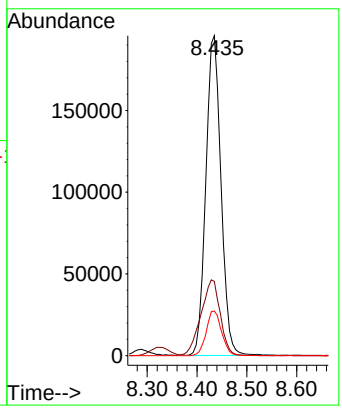

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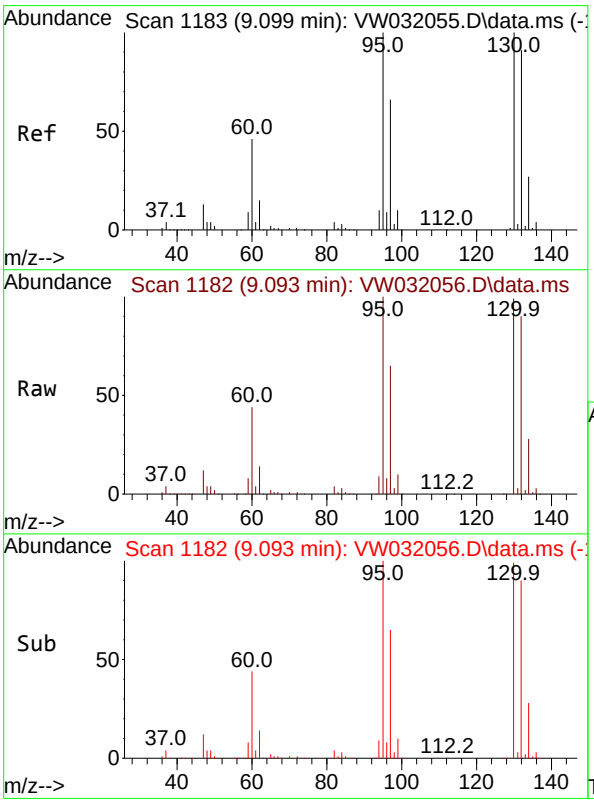
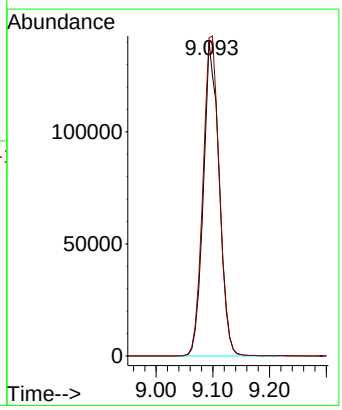
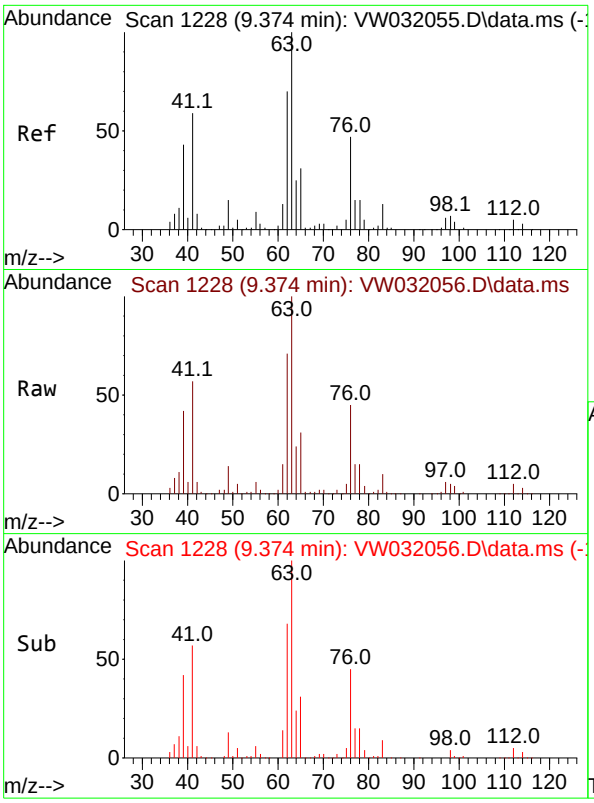


#44
Trichloroethene
Concen: 94.602 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:130 Resp: 270995

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	200.6

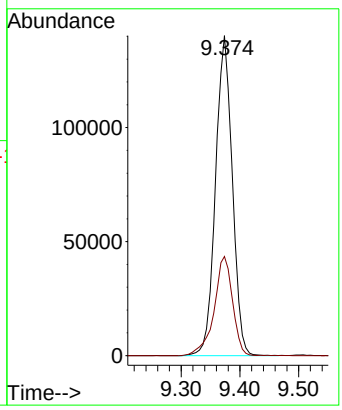




#45
1,2-Dichloropropane
Concen: 95.707 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 27812

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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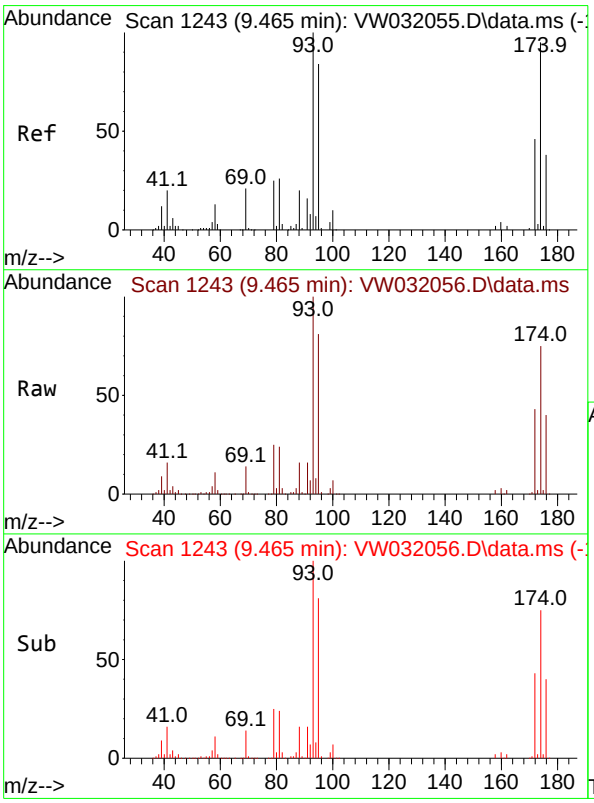
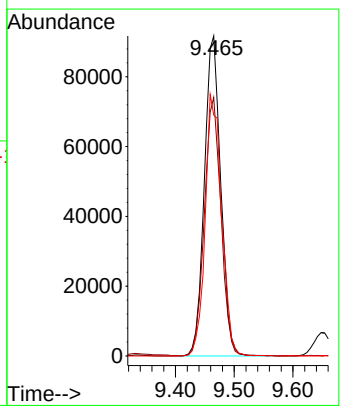
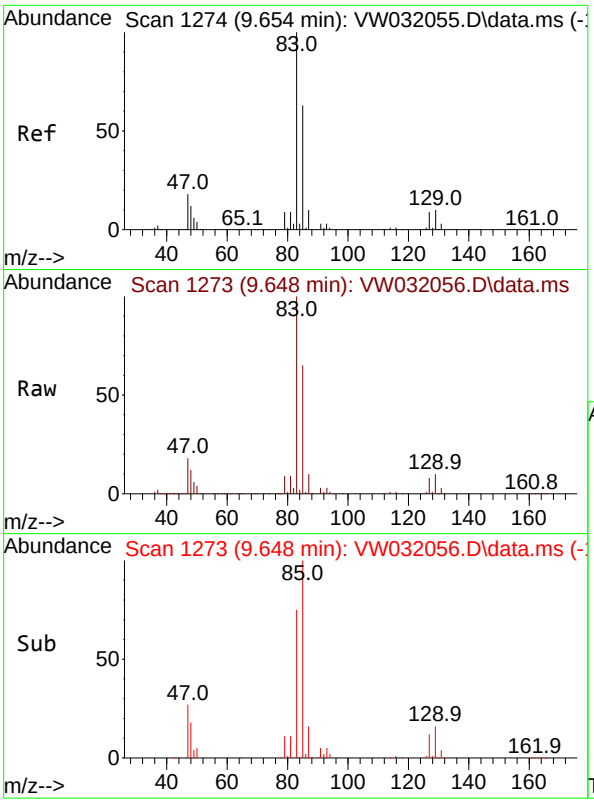


#46
Dibromomethane
Concen: 94.888 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 93 Resp: 177966

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.3	97.9
174	82.0	68.6	102.8





#47
Bromodichloromethane
Concen: 97.867 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 42295

Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.6	75.8
127	7.9	6.9	10.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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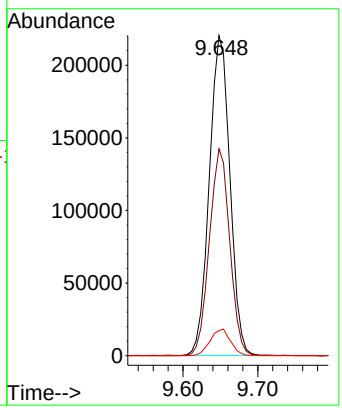

Supervised By :Semsettin Yesilyurt

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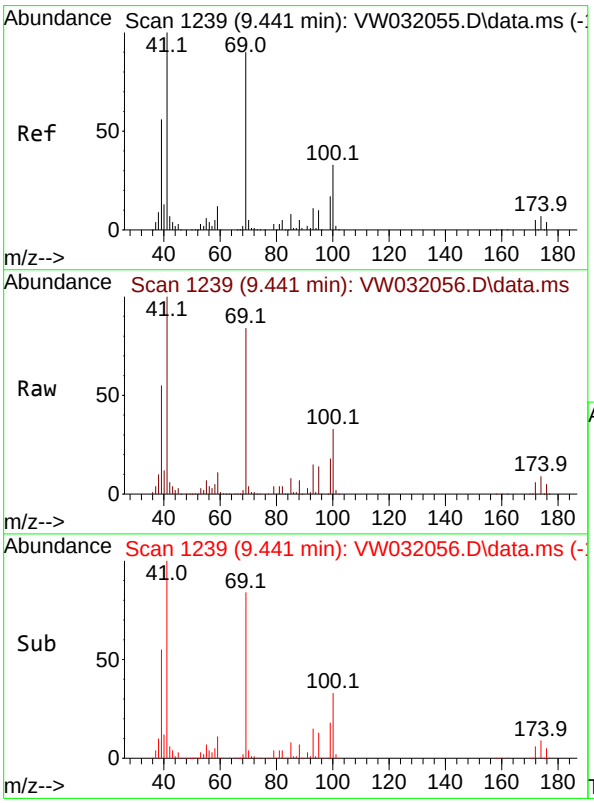
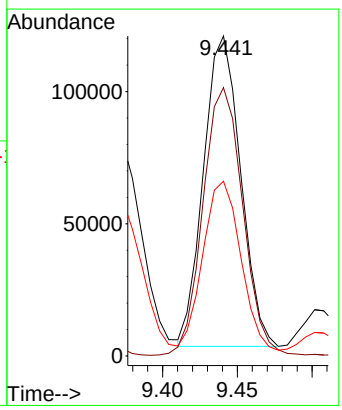
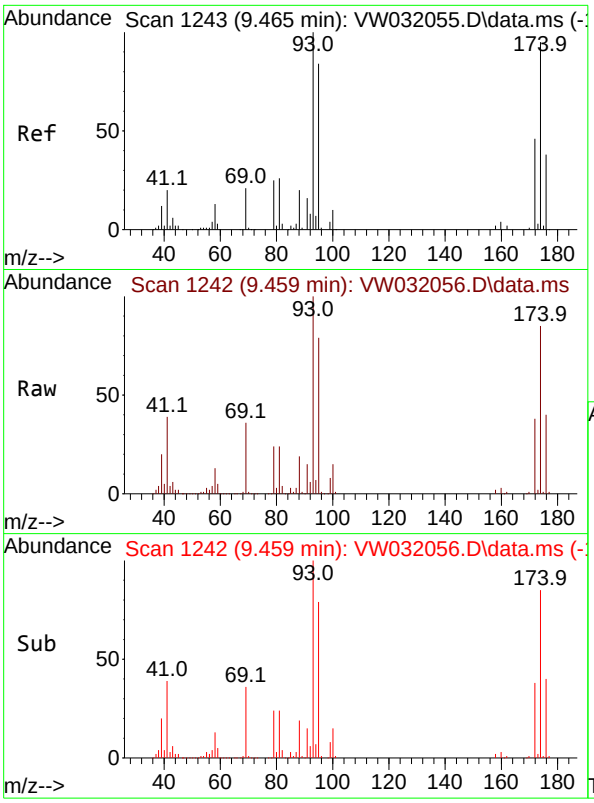


#48
Methyl methacrylate
Concen: 100.098 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 202632

Ion	Ratio	Lower	Upper
41	100		
69	93.5	73.0	109.6
39	55.0	45.0	67.4

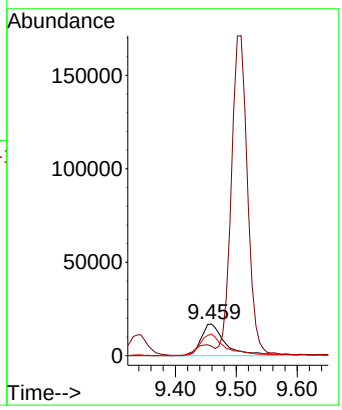




#49
1,4-Dioxane
Concen: 1912.696 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 88 Resp: 4638

Ion	Ratio	Lower	Upper
88	100		
43	25.4	20.6	30.8
58	75.0	60.4	90.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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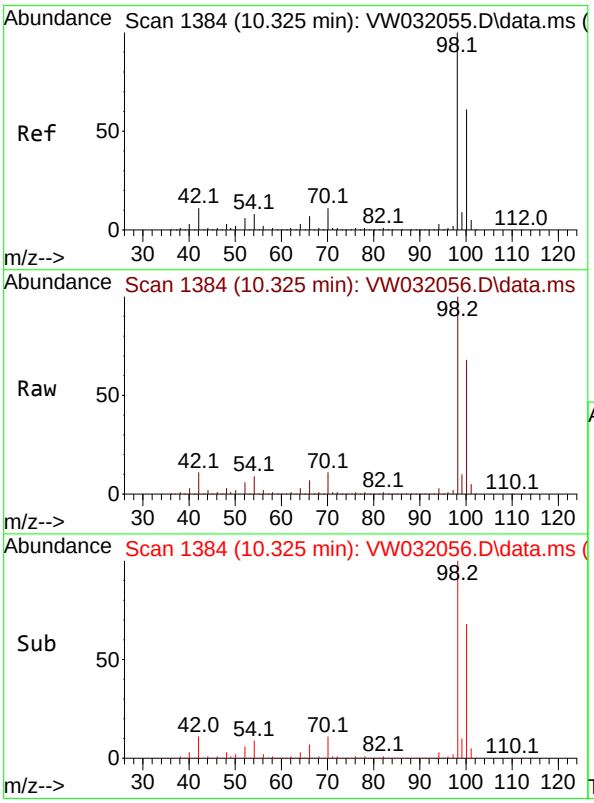
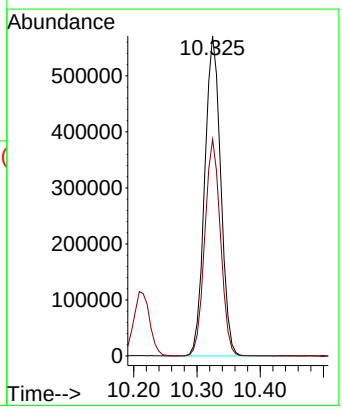
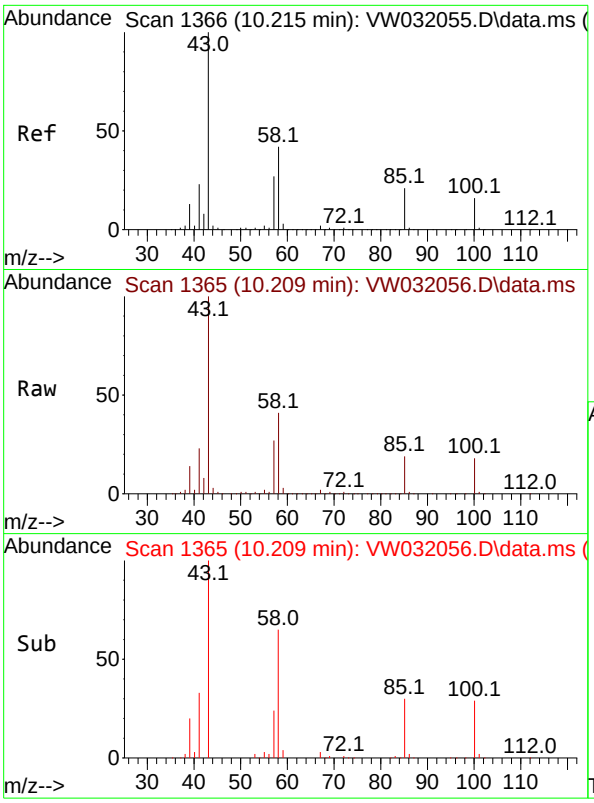


#50
Toluene-d8
Concen: 99.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 98 Resp: 1005940

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.1	76.7

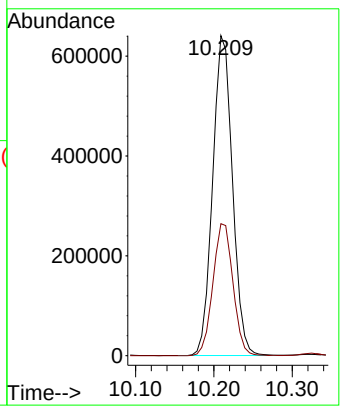




#51
4-Methyl-2-Pentanone
Concen: 476.209 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 112708

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.1	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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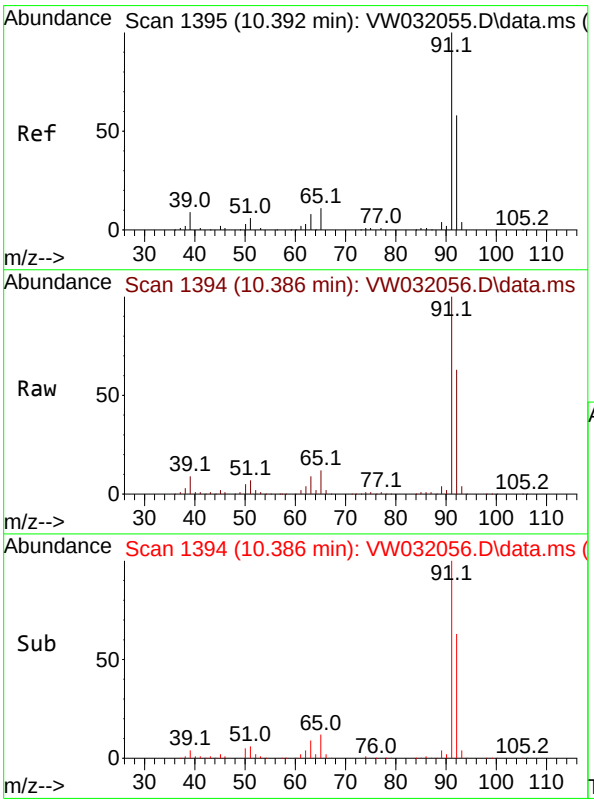
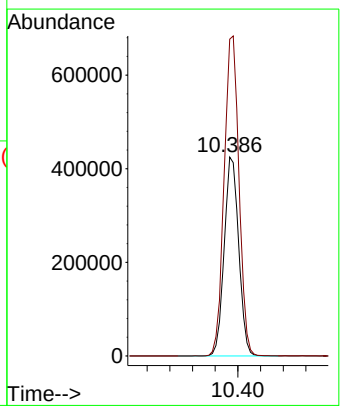
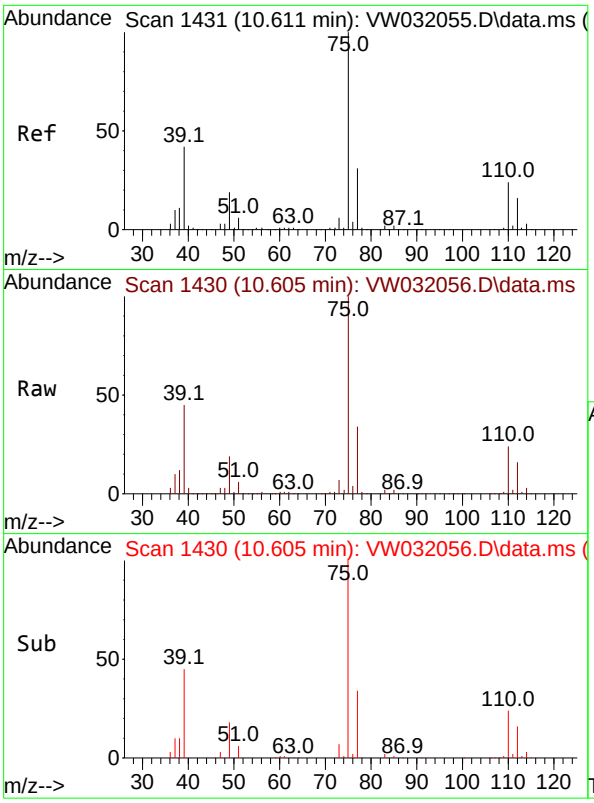


#52
Toluene
Concen: 99.464 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 92 Resp: 753592

Ion	Ratio	Lower	Upper
92	100		
91	165.0	136.3	204.5

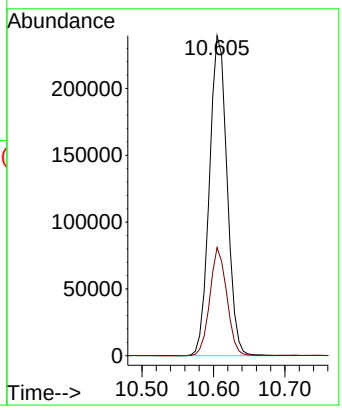




#53
t-1,3-Dichloropropene
Concen: 101.442 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 41073

Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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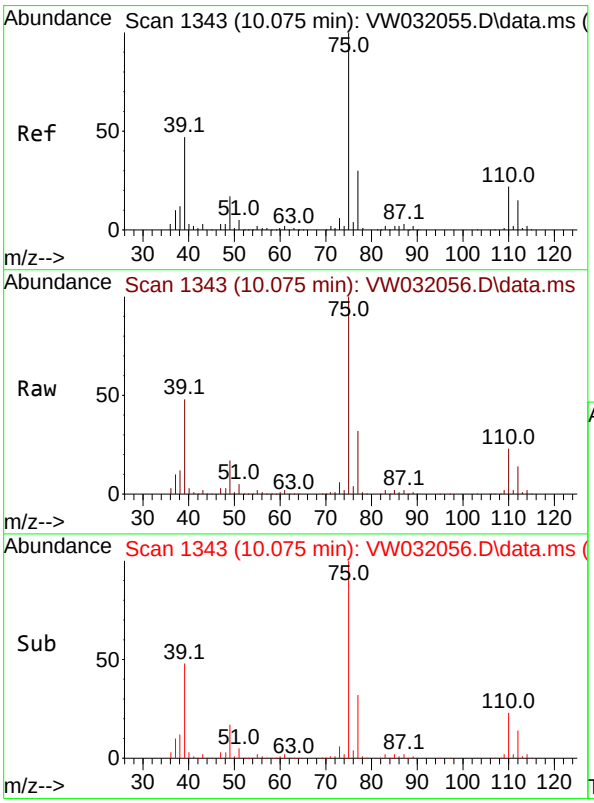
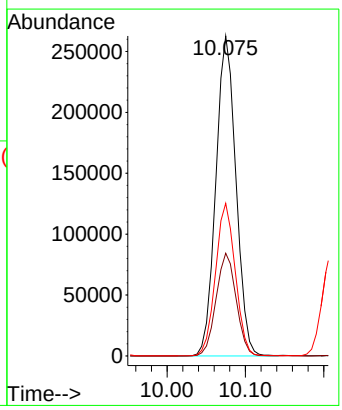
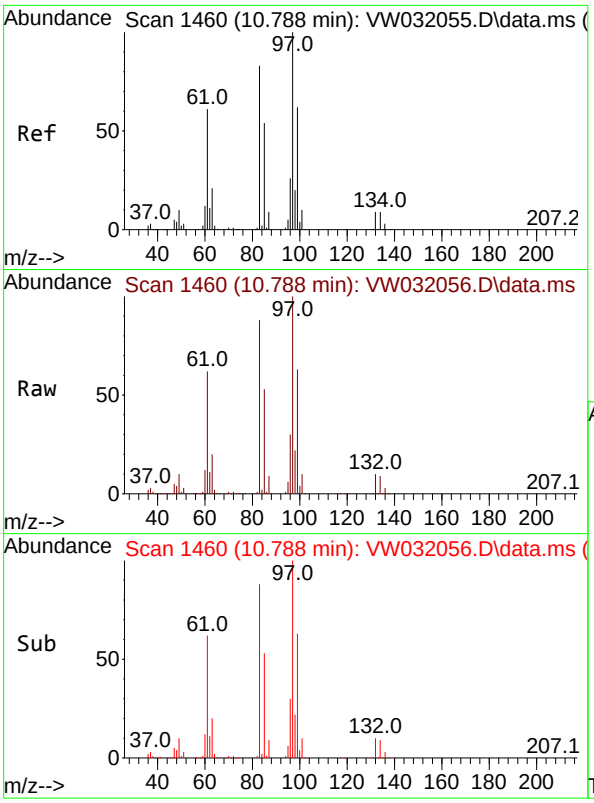


#54
cis-1,3-Dichloropropene
Concen: 102.096 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 468972

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	47.6	37.8	56.8

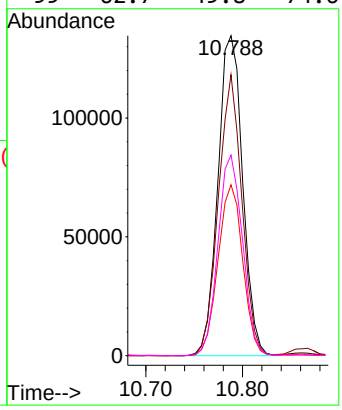




#55
1,1,2-Trichloroethane
Concen: 96.099 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 97 Resp: 23950

Ion	Ratio	Lower	Upper
97	100		
83	87.8	66.4	99.6
85	53.4	43.1	64.7
99	62.7	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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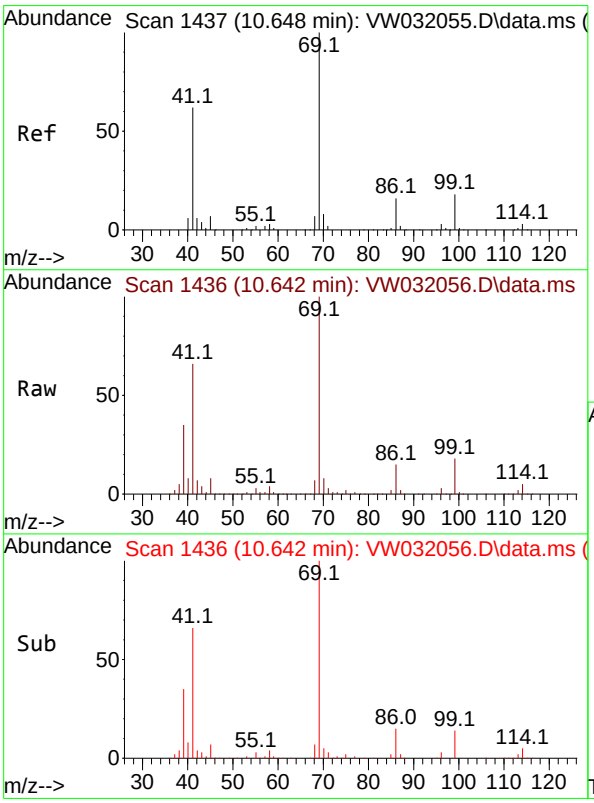
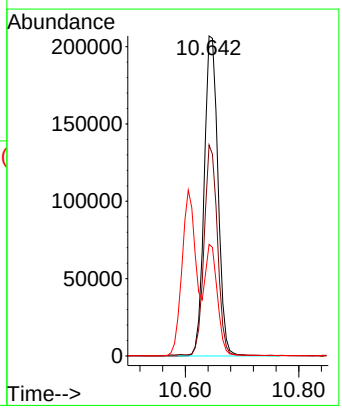
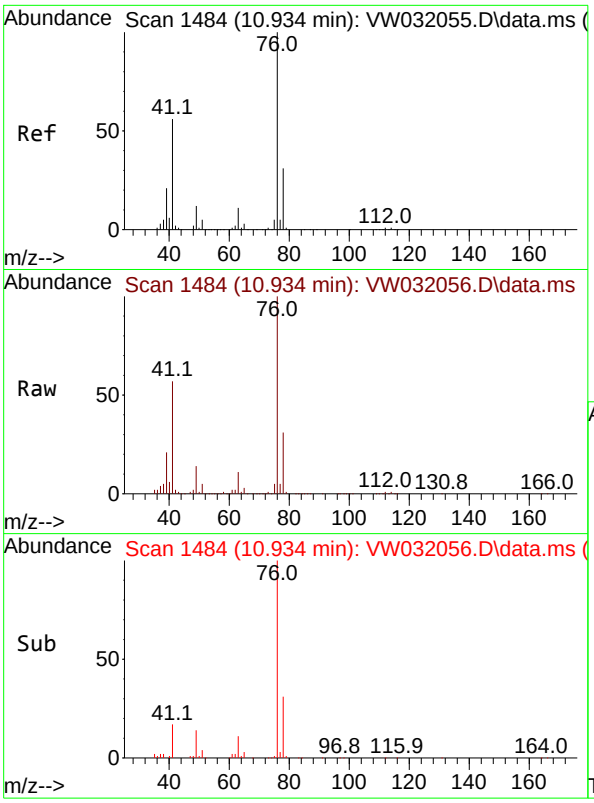


#56
Ethyl methacrylate
Concen: 104.477 ug/l
RT: 10.642 min Scan# 1436
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 69 Resp: 348446

Ion	Ratio	Lower	Upper
69	100		
41	64.5	51.2	76.8
39	30.2	25.4	38.0





#57
1,3-Dichloropropane
Concen: 95.056 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 76 Resp: 41294

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
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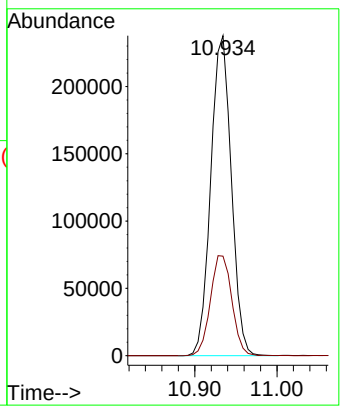

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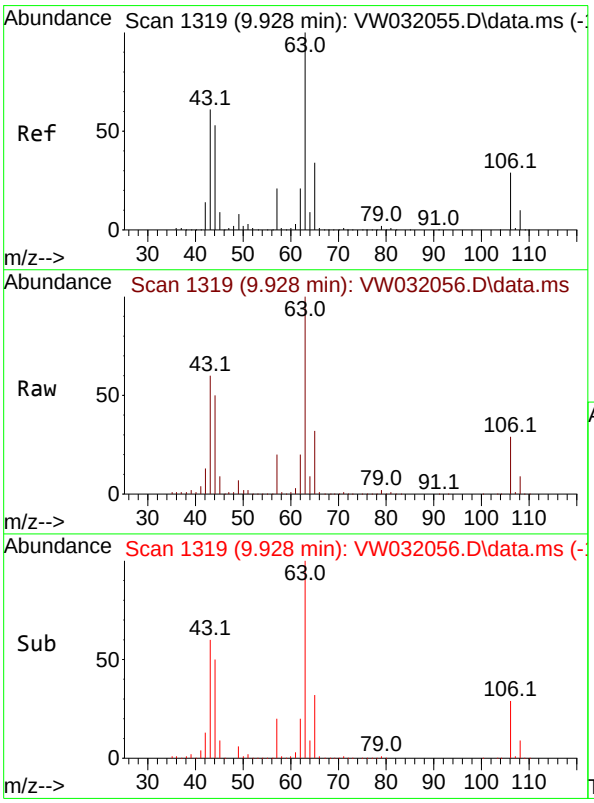
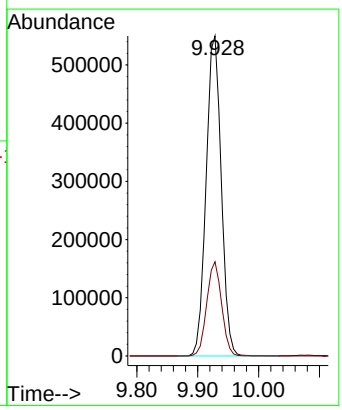
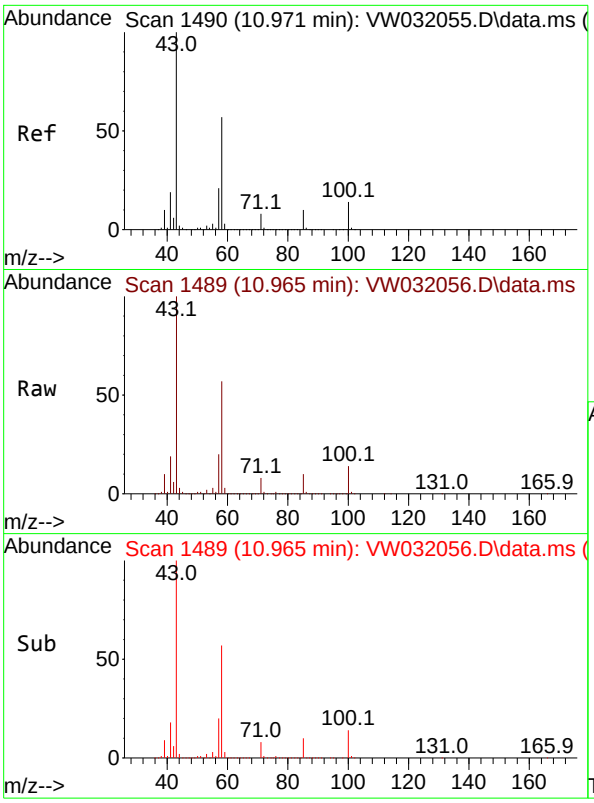


#58
2-Chloroethyl Vinyl ether
Concen: 513.956 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 948129

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.5	35.3





#59
2-Hexanone
Concen: 484.283 ug/l
RT: 10.965 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 79381(

Ion	Ratio	Lower	Upper
43	100		
58	57.2	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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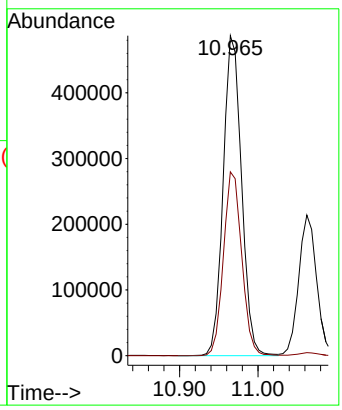

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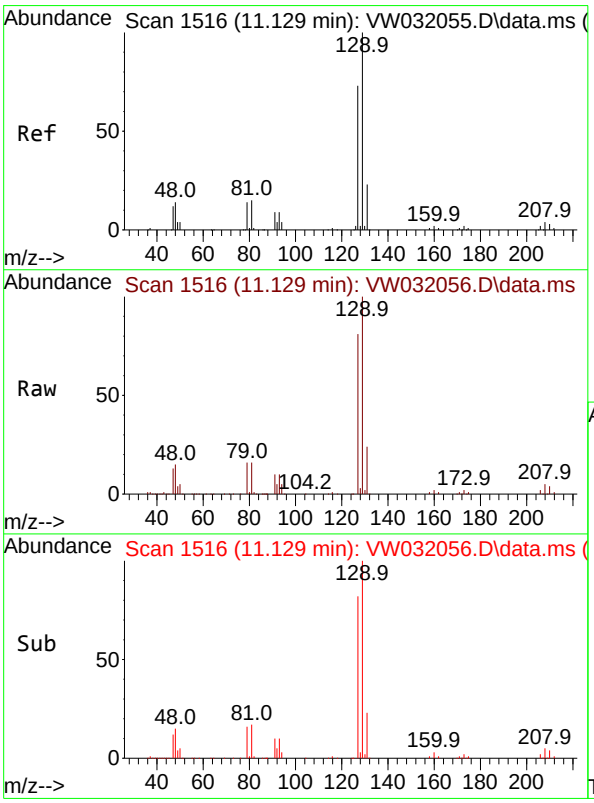
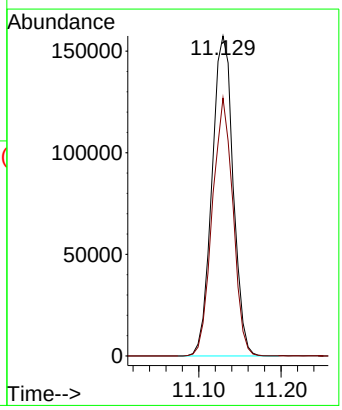
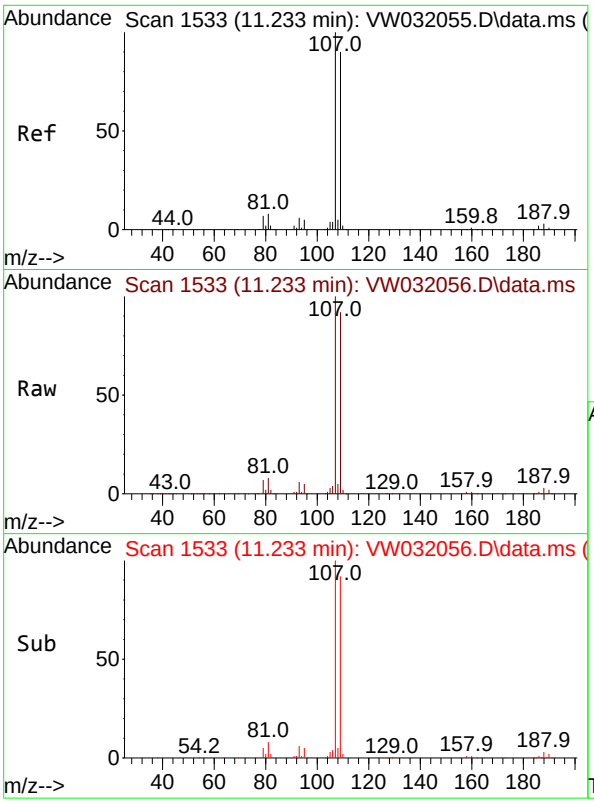


#60
Dibromochloromethane
Concen: 99.074 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:129 Resp: 282060

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.0	116.9





#61
1,2-Dibromoethane
Concen: 99.317 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:107 Resp: 24054

Ion	Ratio	Lower	Upper
107	100		
109	92.1	74.2	111.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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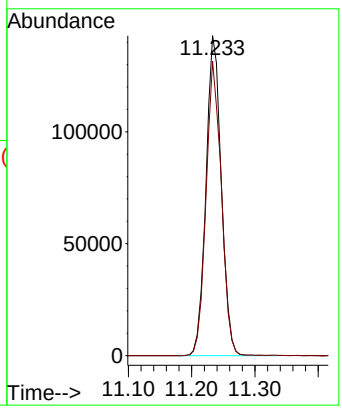

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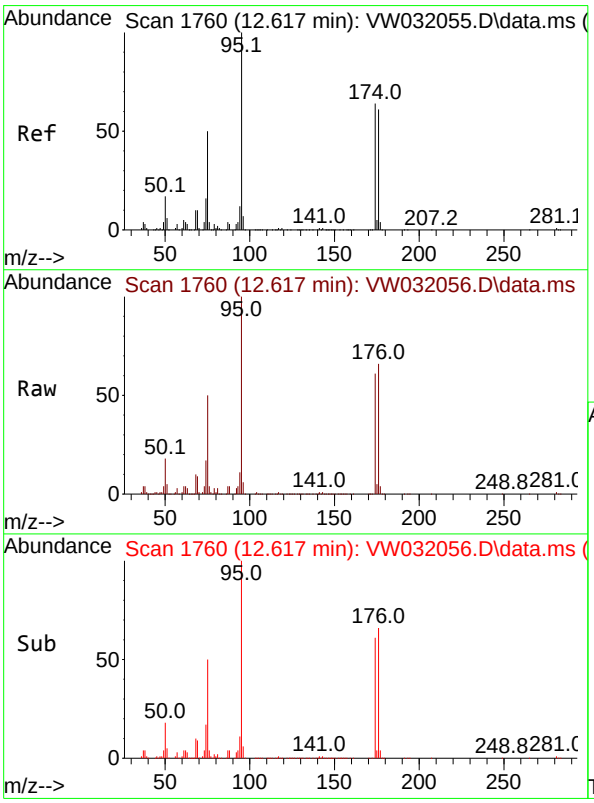
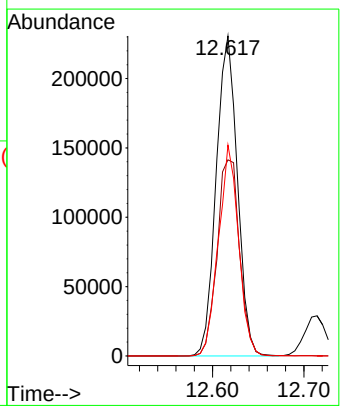
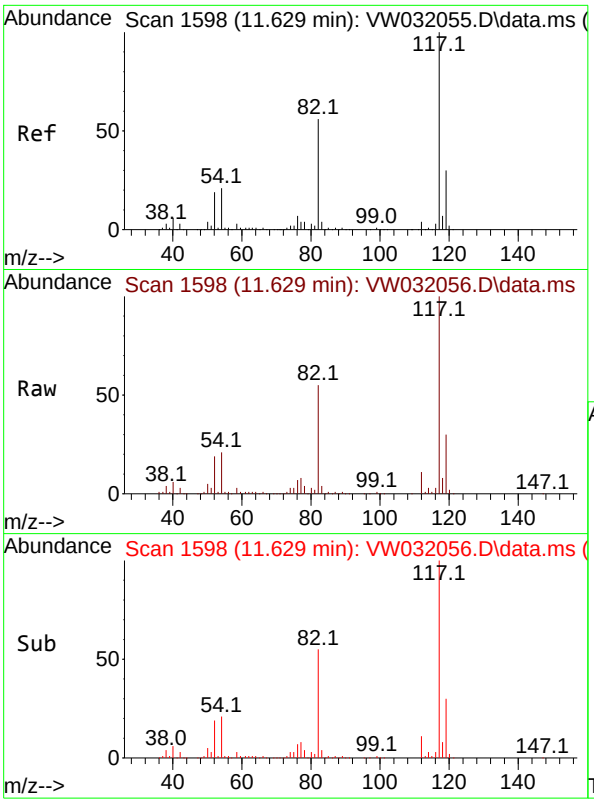


#62
4-Bromofluorobenzene
Concen: 99.536 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 95 Resp: 372416

Ion	Ratio	Lower	Upper
95	100		
174	65.2	0.0	129.0
176	62.8	0.0	124.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 38770

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.0	67.4
119	30.3	24.2	36.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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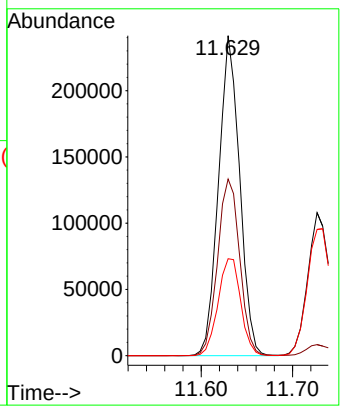

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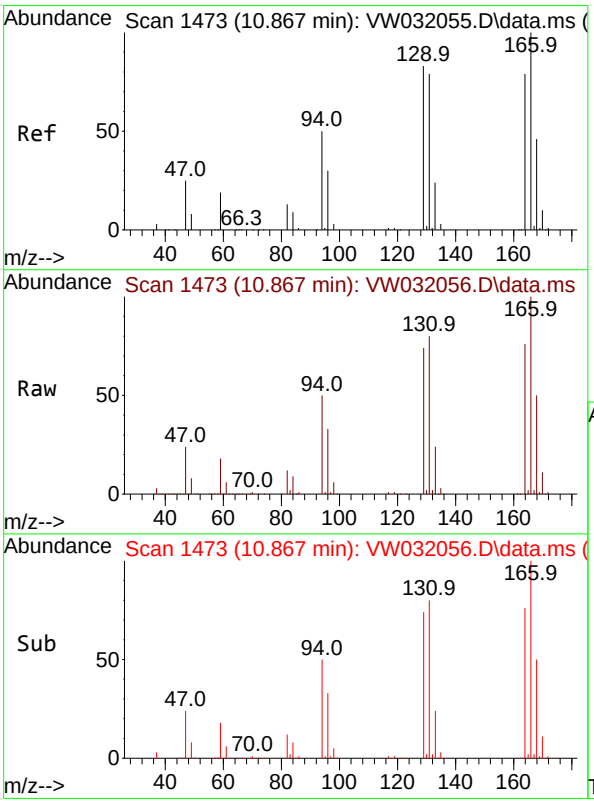
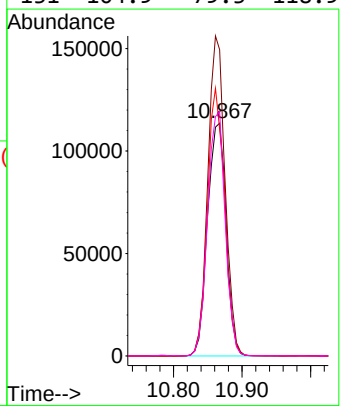
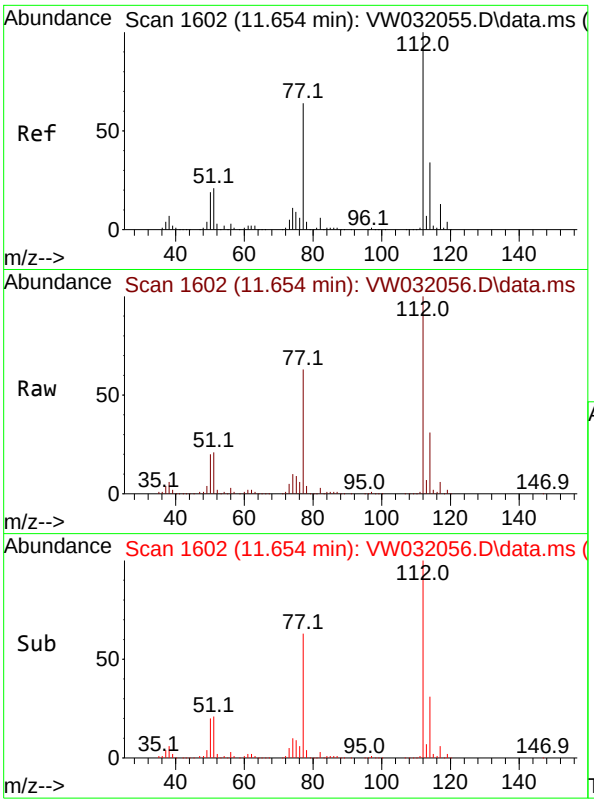


#64
Tetrachloroethene
Concen: 95.247 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:164 Resp: 213297

Ion	Ratio	Lower	Upper
164	100		
166	131.5	100.9	151.3
129	97.3	83.6	125.4
131	104.9	79.3	118.9

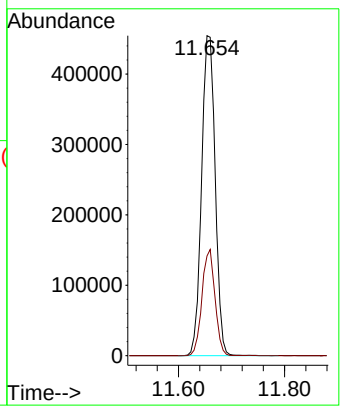




#65
Chlorobenzene
Concen: 95.819 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:112 Resp: 80860

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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Supervised By :Semsettin Yesilyurt

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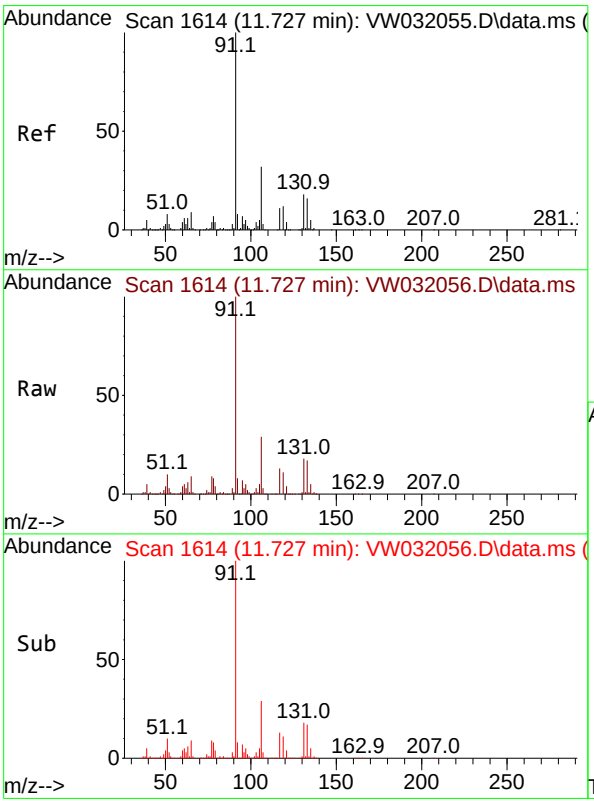
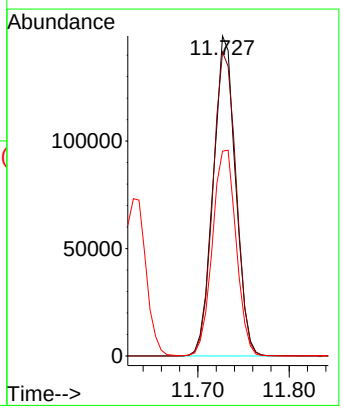
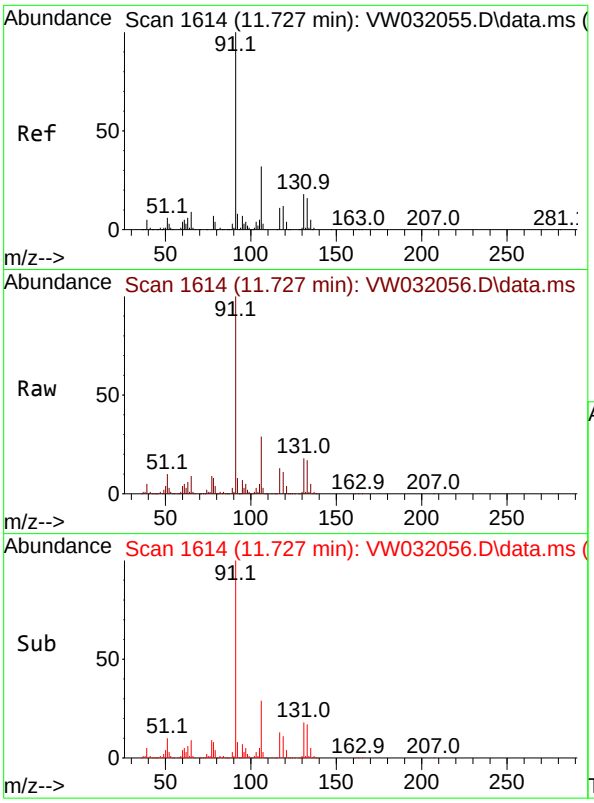


#66
1,1,1,2-Tetrachloroethane
Concen: 96.197 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:131 Resp: 253284

Ion	Ratio	Lower	Upper
131	100		
133	98.6	47.3	142.0
119	68.3	34.5	103.5





#67
Ethyl Benzene
Concen: 99.243 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 141861

Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
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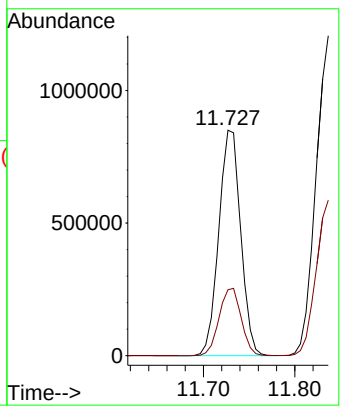

Supervised By :Semsettin Yesilyurt

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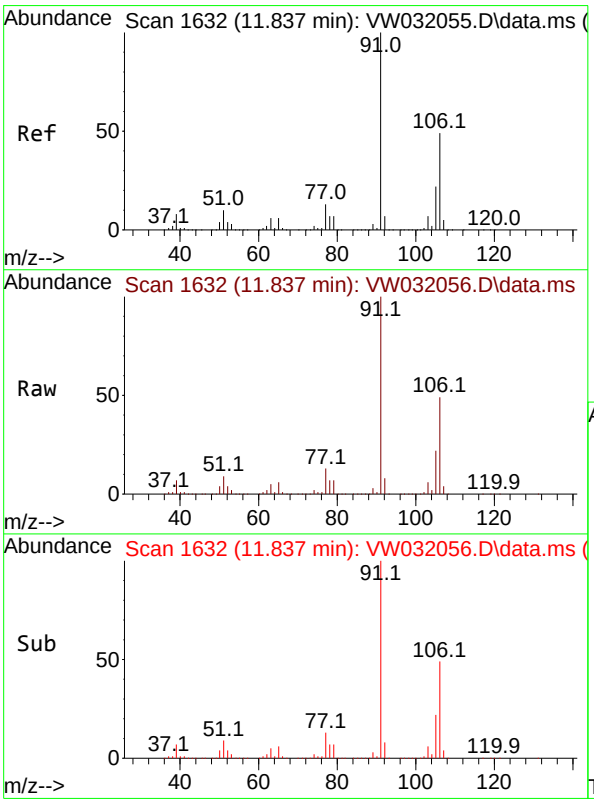
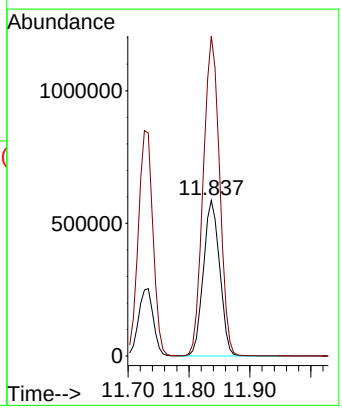
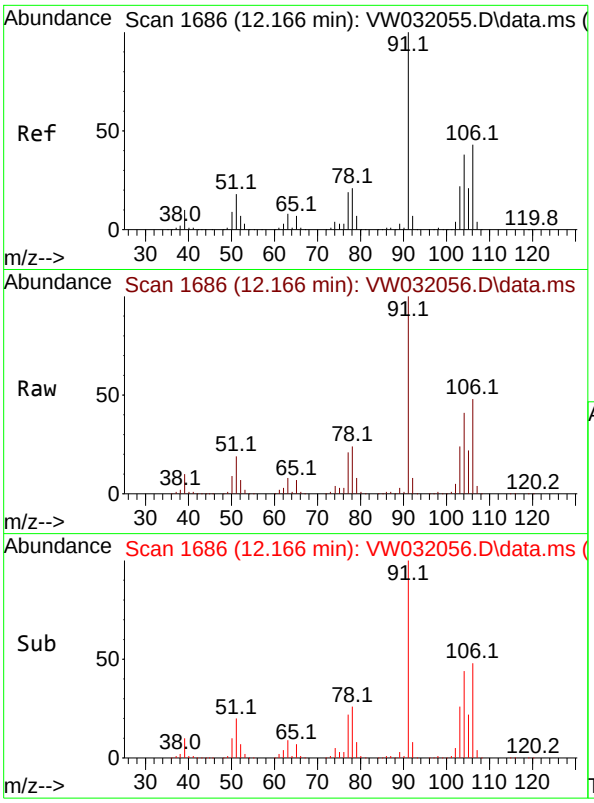


#68
m/p-Xylenes
Concen: 197.459 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 1089143

Ion	Ratio	Lower	Upper
106	100		
91	206.7	162.2	243.2

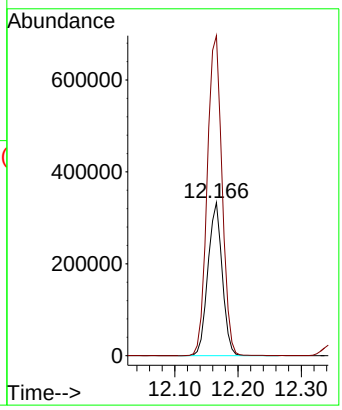




#69
o-Xylene
Concen: 102.652 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 52332

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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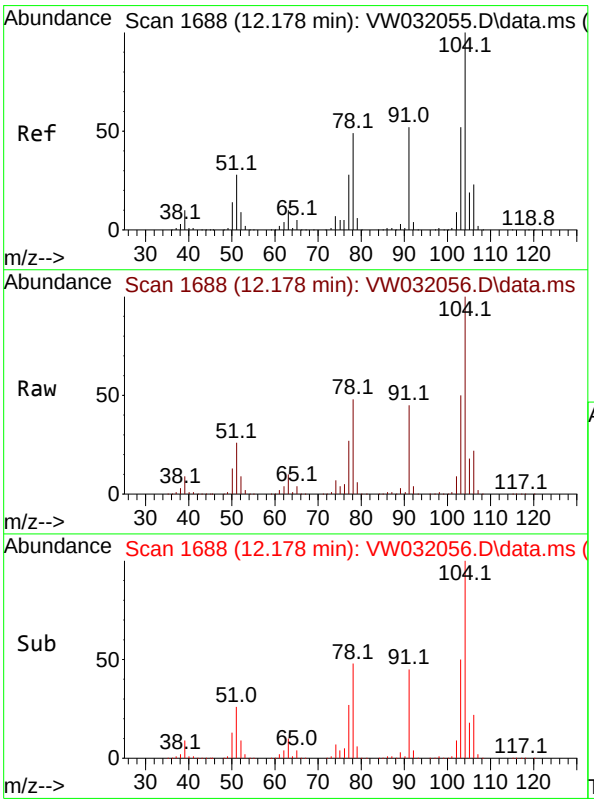
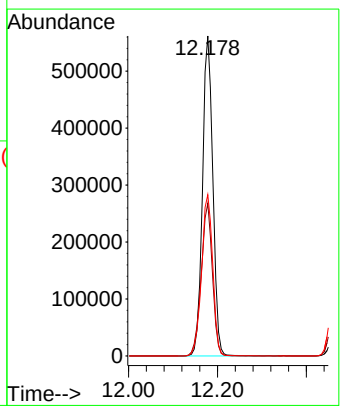
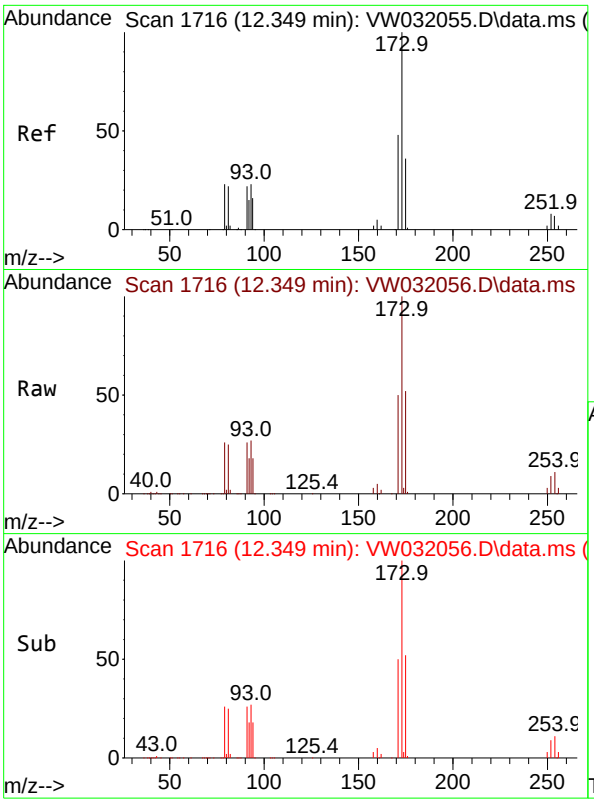


#70
Styrene
Concen: 101.158 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:104 Resp: 916019

Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.2	61.8
103	54.3	43.8	65.8

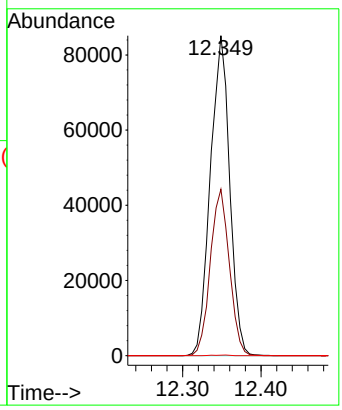




#71
Bromoform
Concen: 96.794 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:173 Resp: 14578

Ion	Ratio	Lower	Upper
173	100		
175	51.3	22.9	68.7
254	0.2	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
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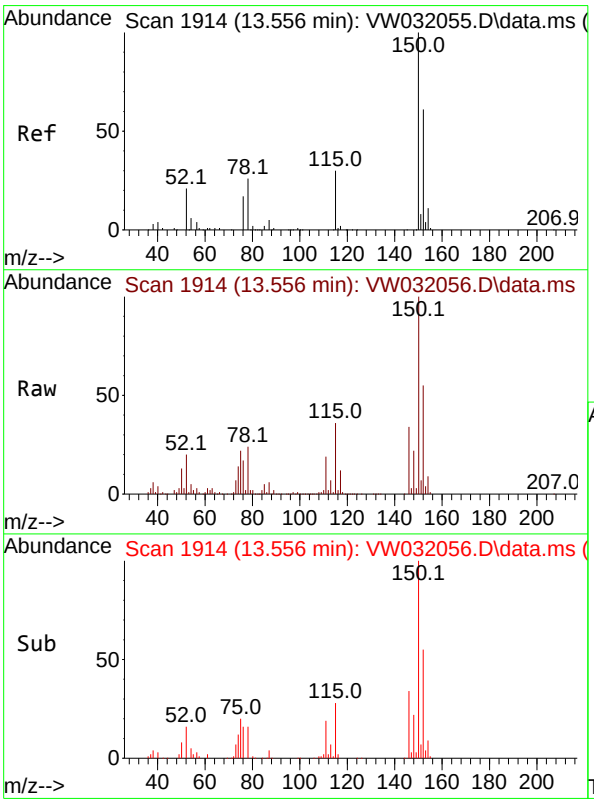
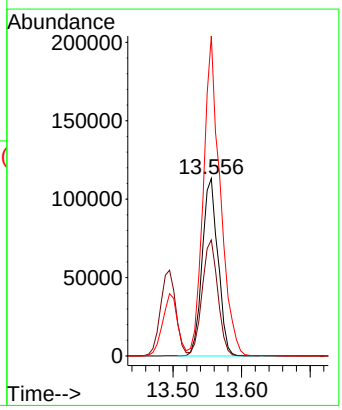
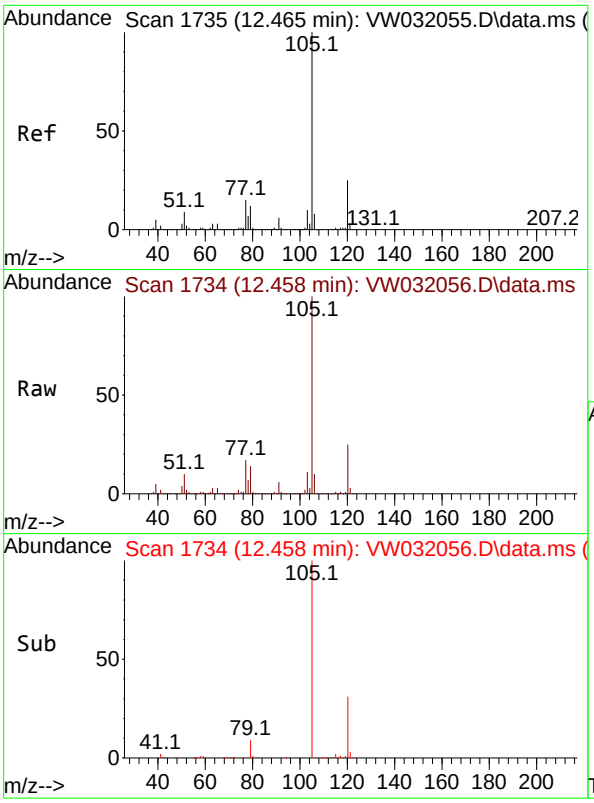


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:152 Resp: 180763

Ion	Ratio	Lower	Upper
152	100		
115	65.1	32.6	97.8
150	191.5	0.0	359.4

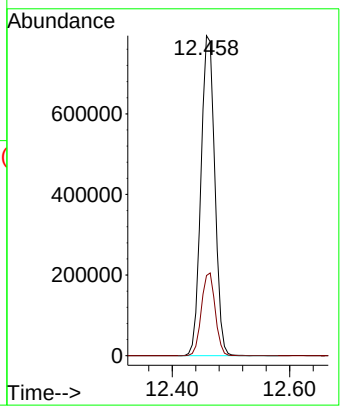




#73
Isopropylbenzene
Concen: 102.870 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 129953

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
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ClientSampleId :
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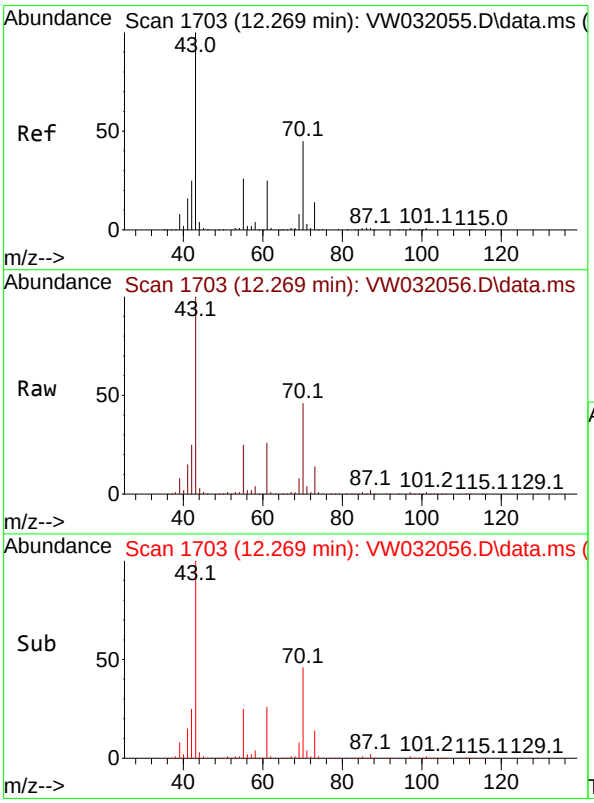
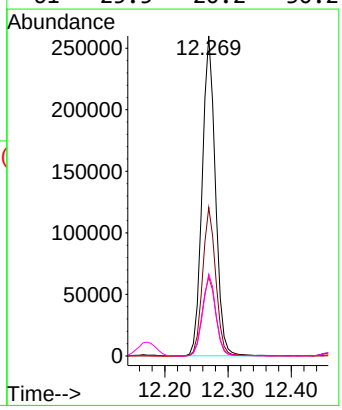
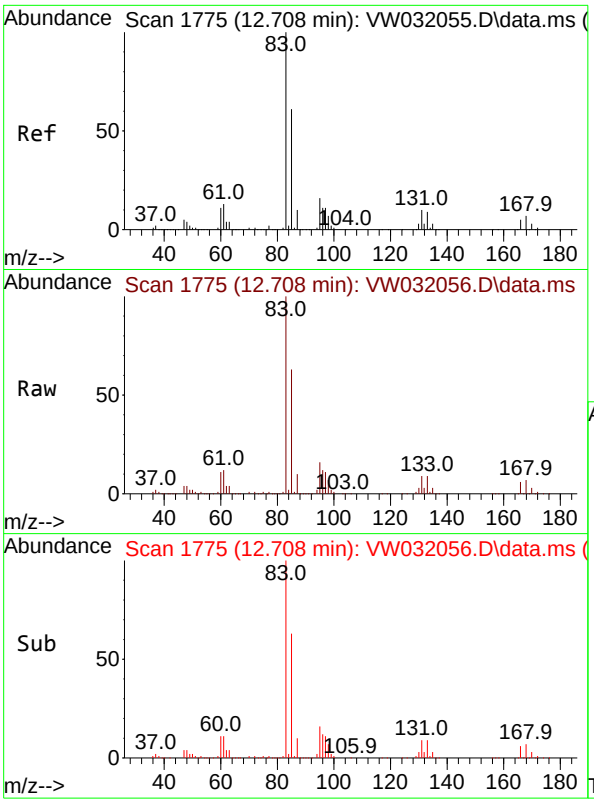


#74
N-amyl acetate
Concen: 104.494 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 378722

Ion	Ratio	Lower	Upper
43	100		
70	46.3	37.0	55.4
55	25.5	21.1	31.7
61	25.5	20.2	30.2

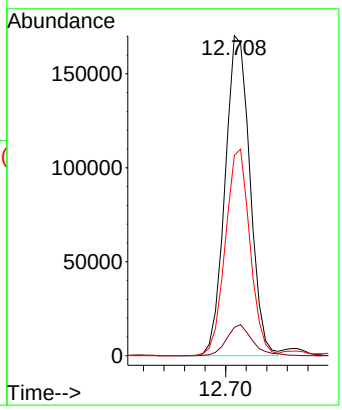




#75
1,1,2,2-Tetrachloroethane
Concen: 95.677 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 28697

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	63.9	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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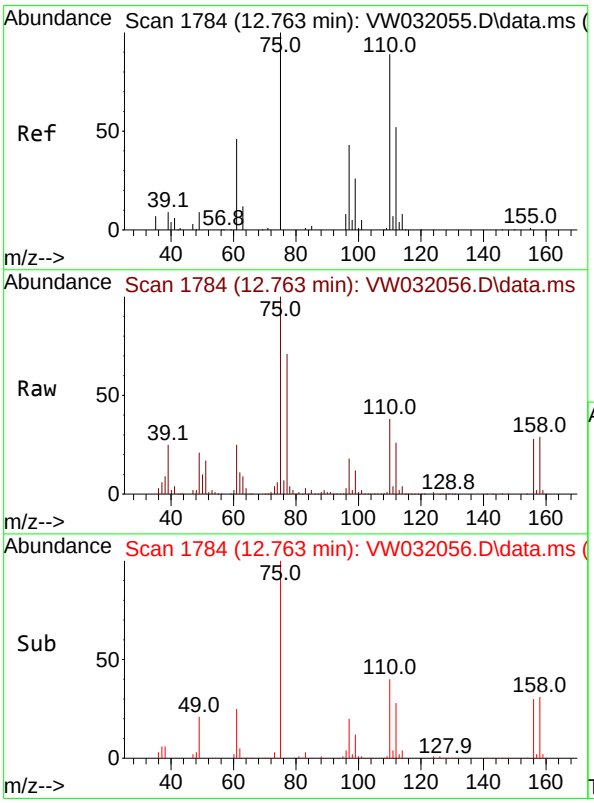
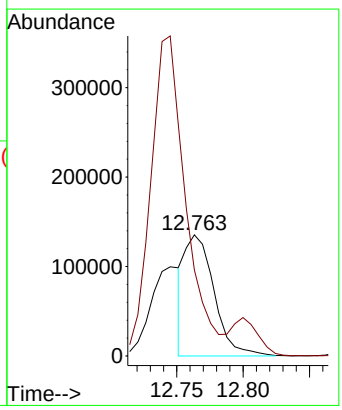
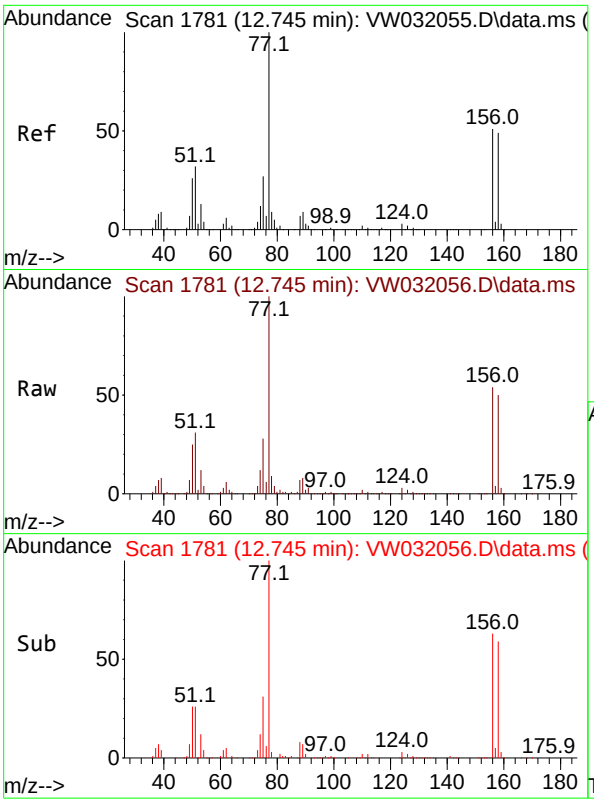


#76
1,2,3-Trichloropropane
Concen: 75.158 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 208848

Ion	Ratio	Lower	Upper
75	100		
77	312.0	123.5	370.5

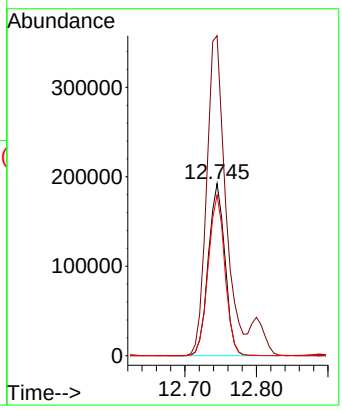




#77
Bromobenzene
Concen: 103.091 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:156 Resp: 31104

Ion	Ratio	Lower	Upper
156	100		
77	209.5	108.7	326.3
158	93.4	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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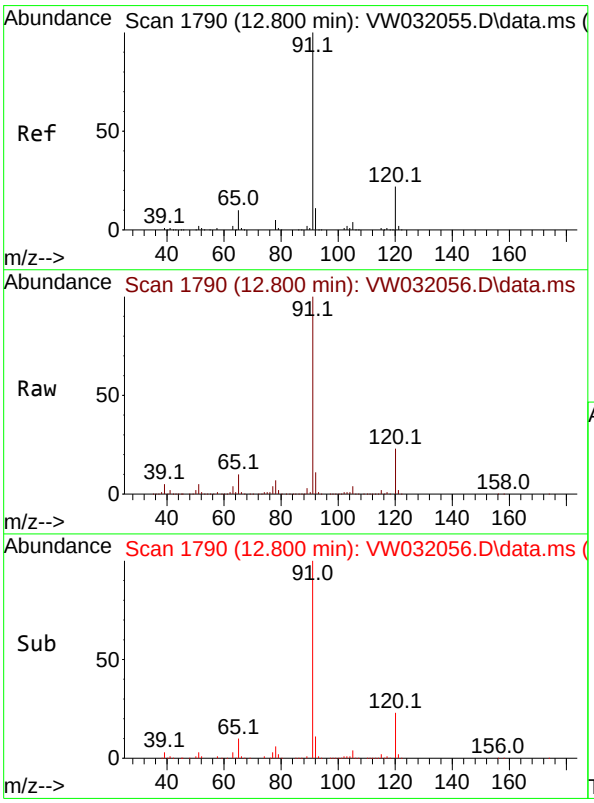
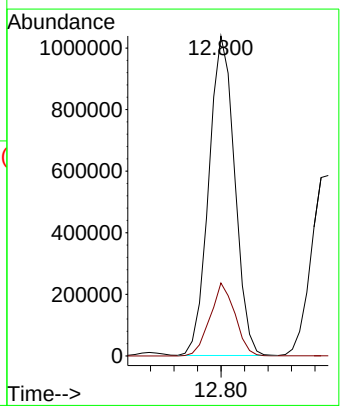
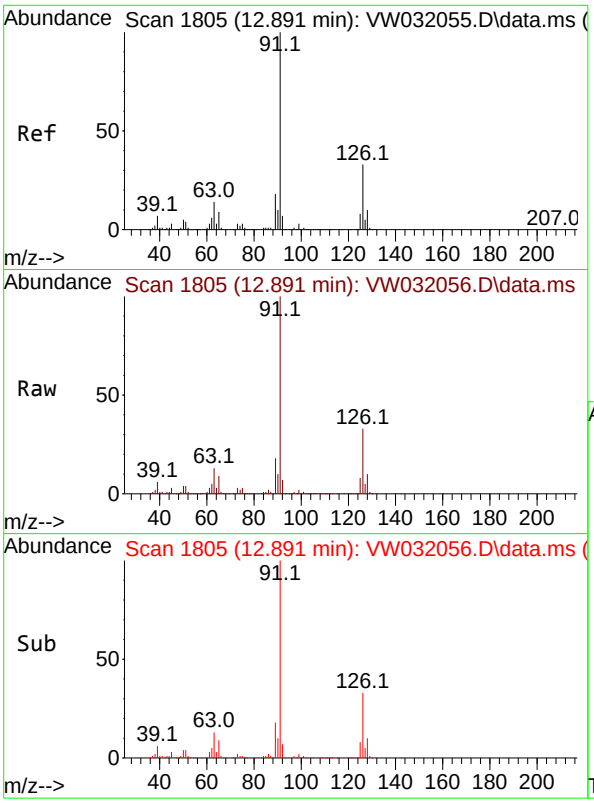


#78
n-propylbenzene
Concen: 102.177 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1589147

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3





#79
2-Chlorotoluene
Concen: 101.505 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 97432

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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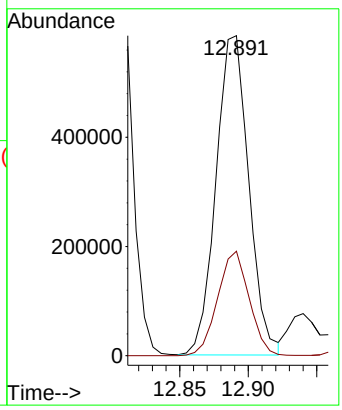

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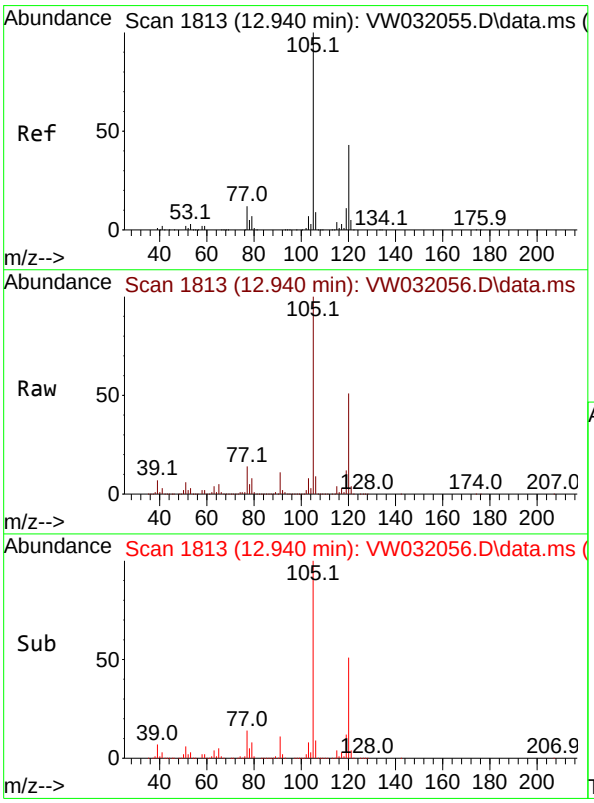
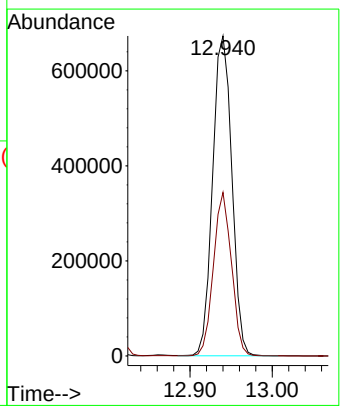
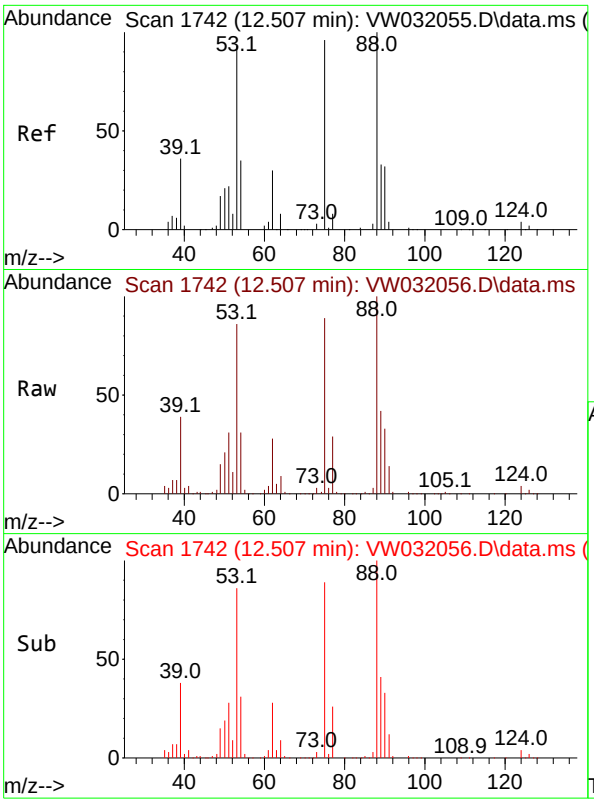


#80
1,3,5-Trimethylbenzene
Concen: 101.912 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1092987

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 104.370 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 9890

Ion	Ratio	Lower	Upper
75	100		
53	99.2	81.0	121.6
89	46.2	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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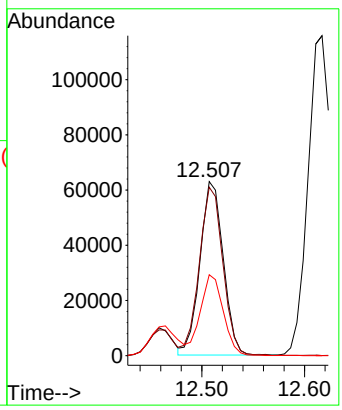

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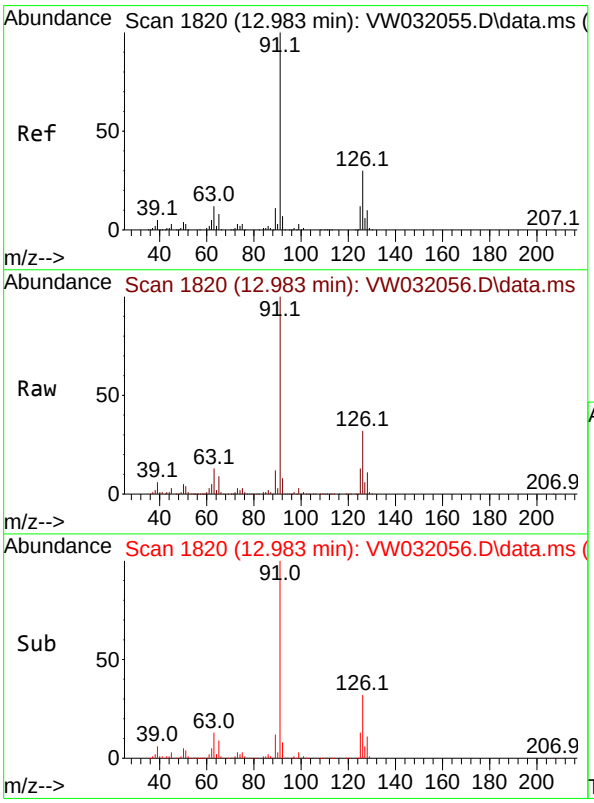
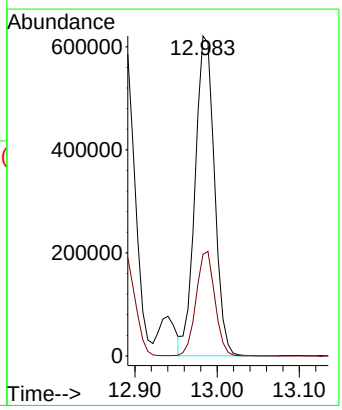
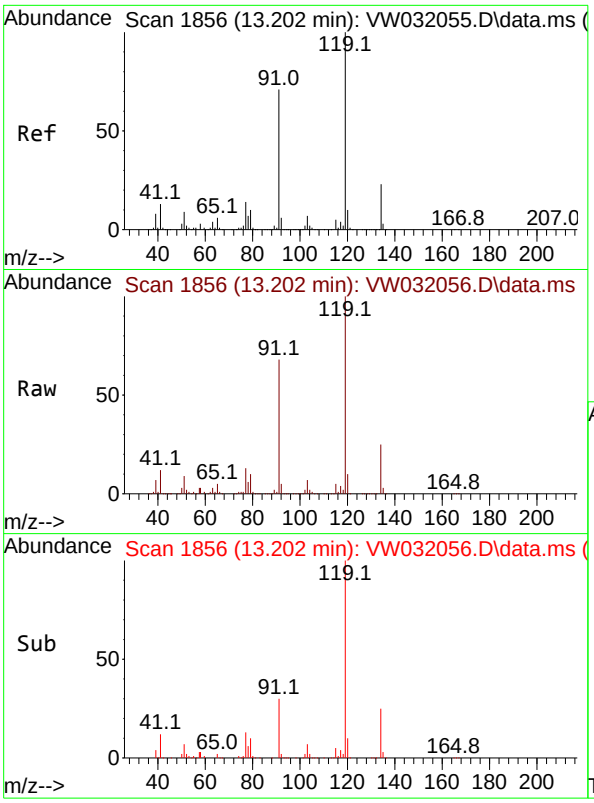


#82
4-Chlorotoluene
Concen: 99.412 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1013836

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.5	46.5

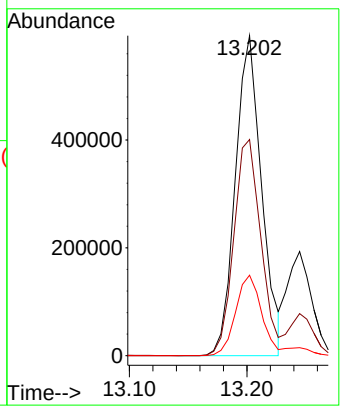




#83
tert-Butylbenzene
Concen: 103.591 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 92204

Ion	Ratio	Lower	Upper
119	100		
91	69.4	35.3	105.9
134	25.3	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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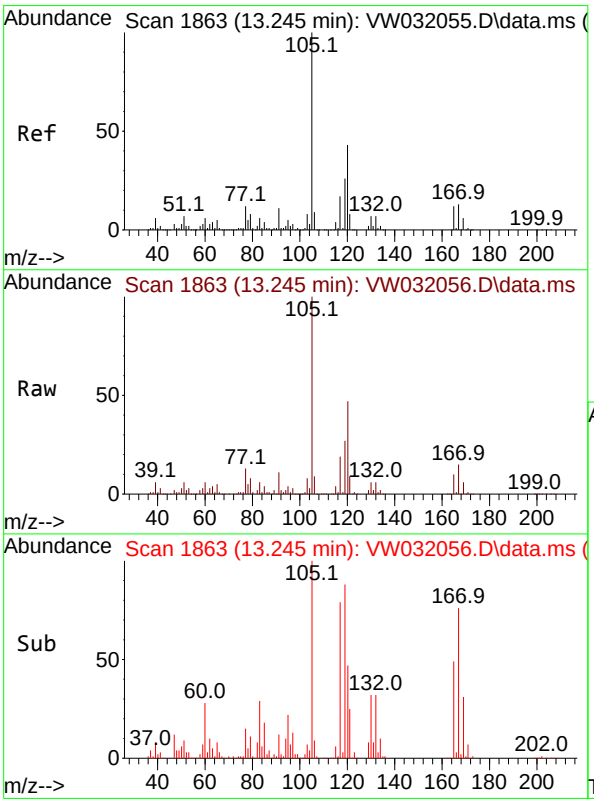
Supervised By :Semsettin Yesilyurt

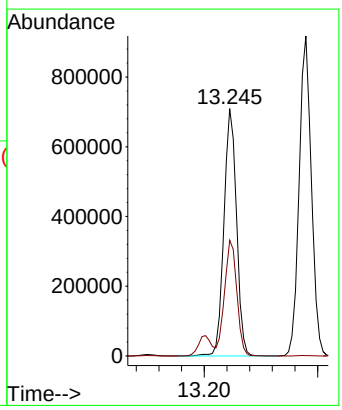
08/12/2025

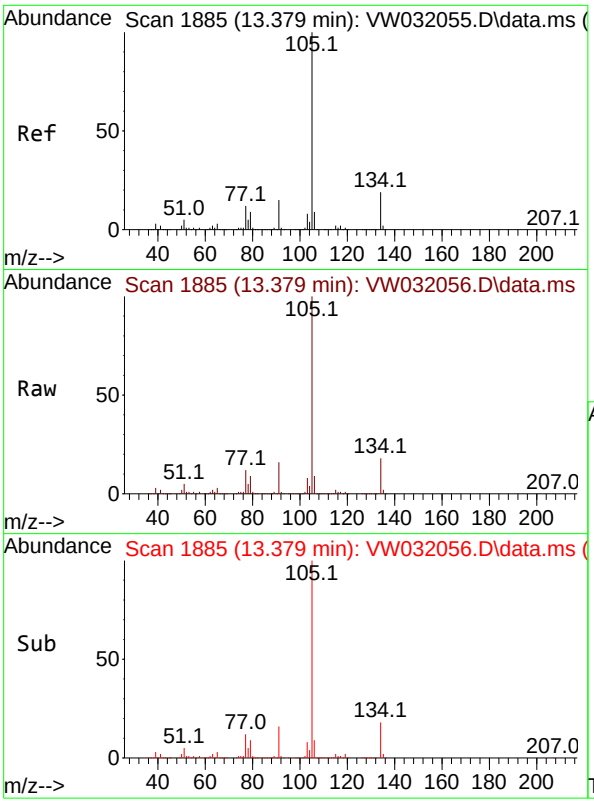


#84
1,2,4-Trimethylbenzene
Concen: 99.778 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1089327

Ion	Ratio	Lower	Upper
105	100		
120	45.7	21.6	64.8

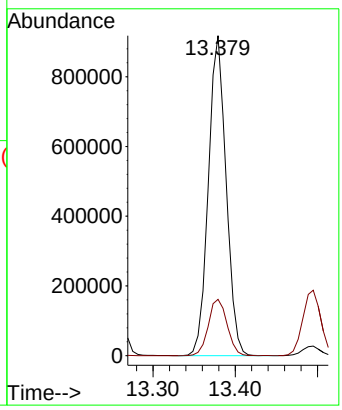




#85
sec-Butylbenzene
Concen: 101.978 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 137232

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

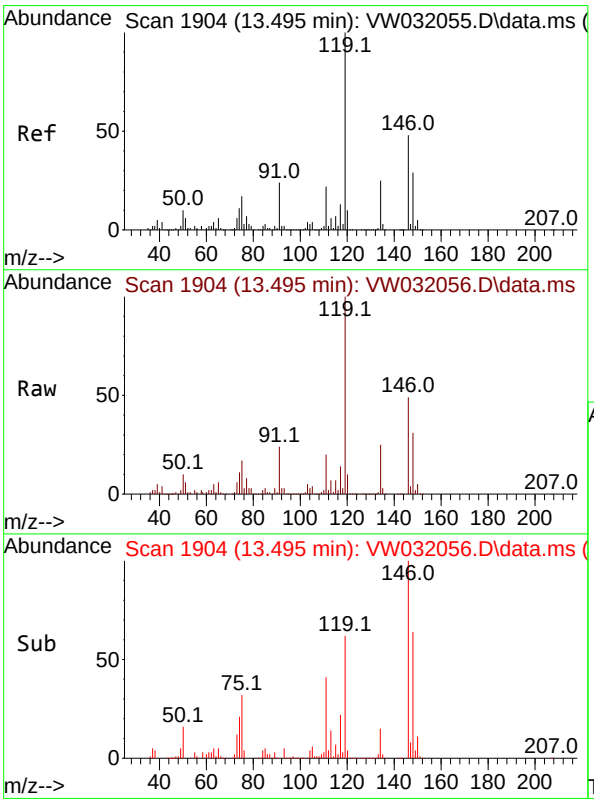
Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025

Supervised By :Semsettin Yesilyurt

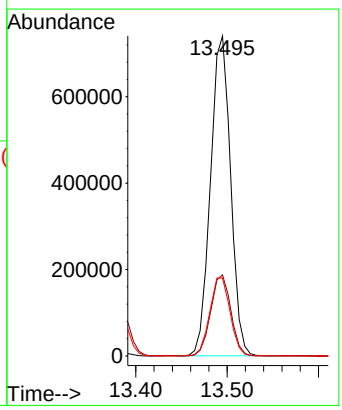
08/12/2025

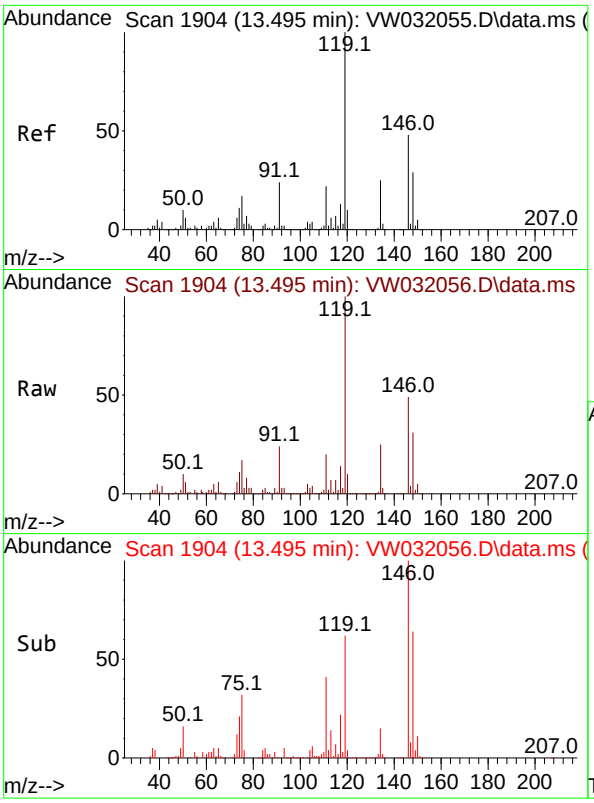


#86
p-Isopropyltoluene
Concen: 100.630 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 1128935

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.4	37.0
91	24.8	12.1	36.3

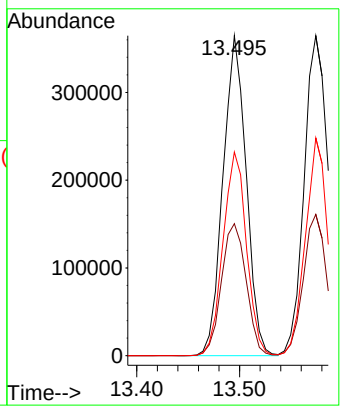




#87
1,3-Dichlorobenzene
Concen: 95.298 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 57214

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.2	63.6
148	64.4	30.3	90.8



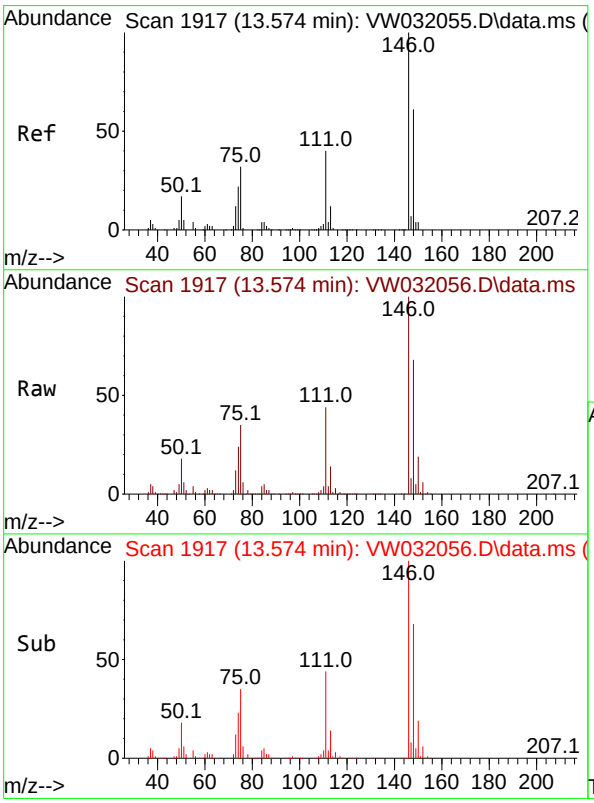
Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025
Supervised By :Semsettin Yesilyurt

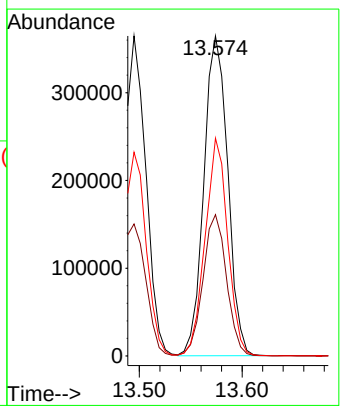
08/12/2025

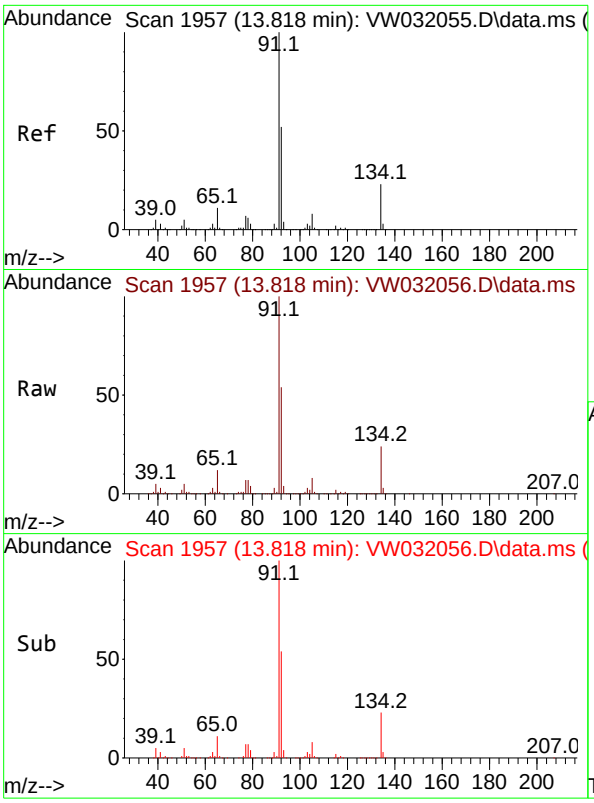


#88
1,4-Dichlorobenzene
Concen: 96.819 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 587417

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	64.6
148	64.3	32.0	96.2

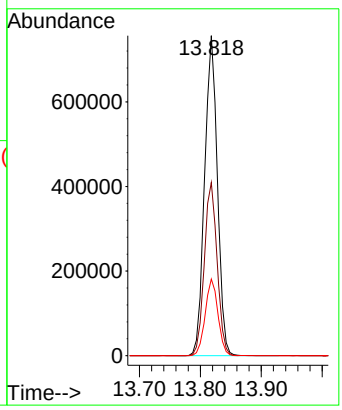




#89
n-Butylbenzene
Concen: 101.235 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 110336

Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.7	80.1
134	24.0	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

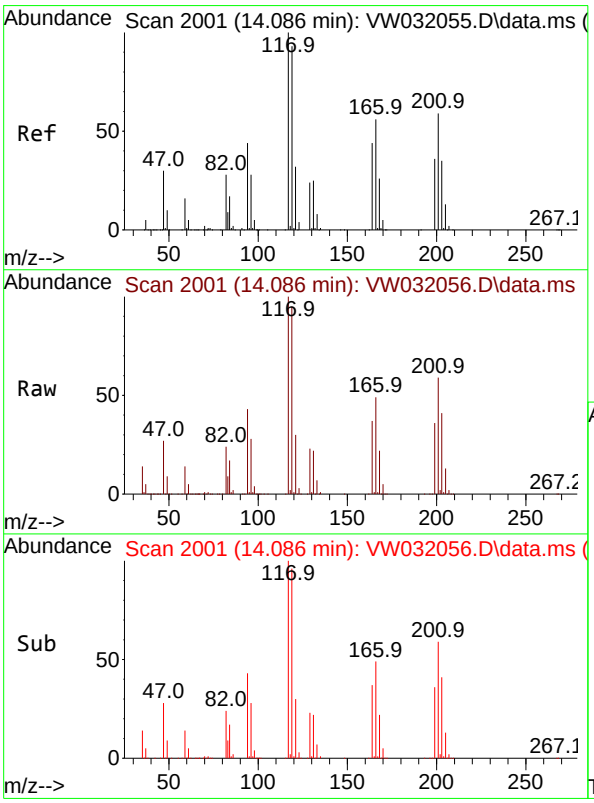
Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025

Supervised By :Semsettin Yesilyurt

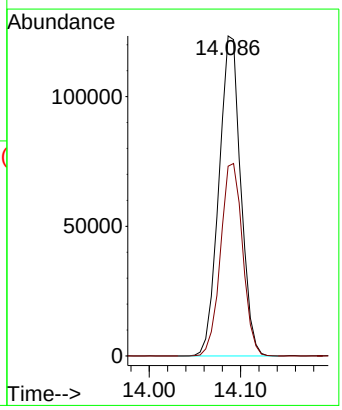
08/12/2025

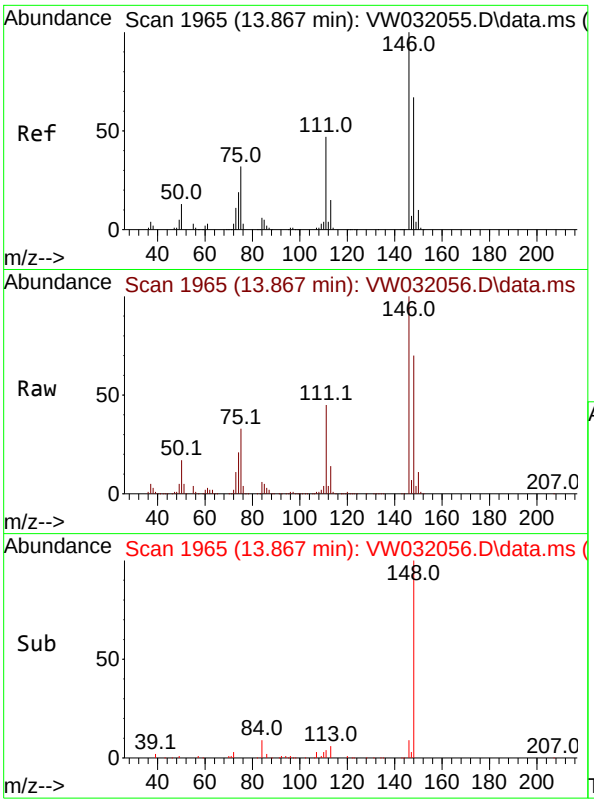


#90
Hexachloroethane
Concen: 99.832 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 204823

Ion	Ratio	Lower	Upper
117	100		
201	60.9	30.9	92.5

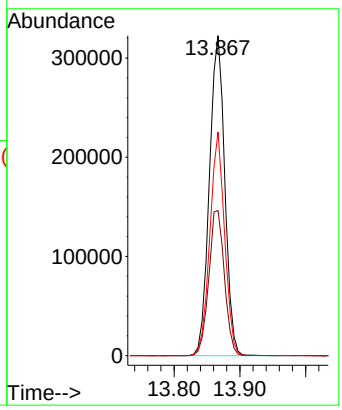




#91
1,2-Dichlorobenzene
Concen: 96.387 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 52420

Ion	Ratio	Lower	Upper
146	100		
111	46.3	23.1	69.3
148	67.0	32.9	98.6



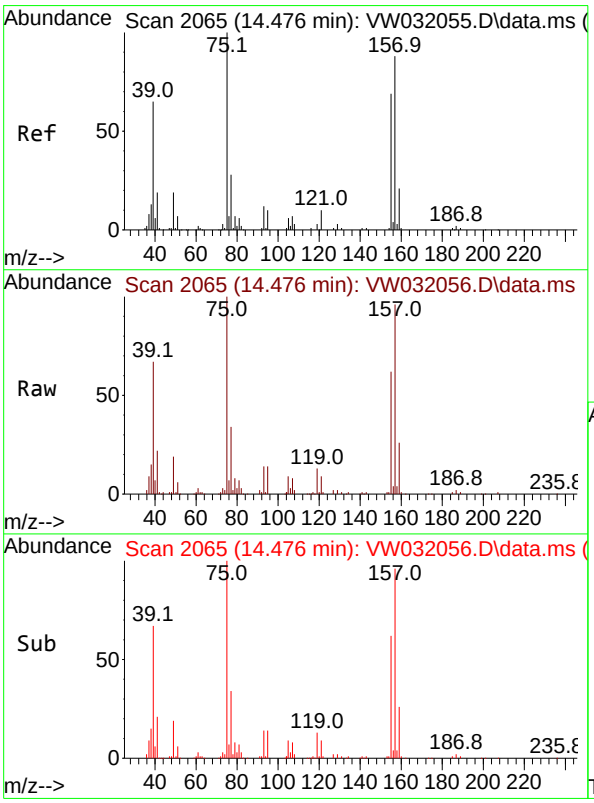
Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025
Supervised By :Semsettin Yesilyurt

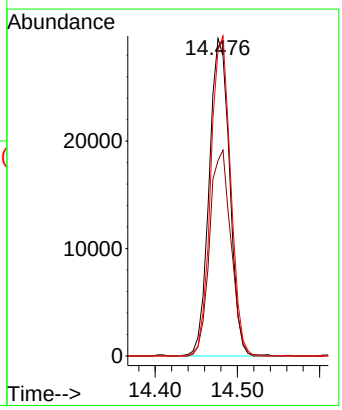
08/12/2025

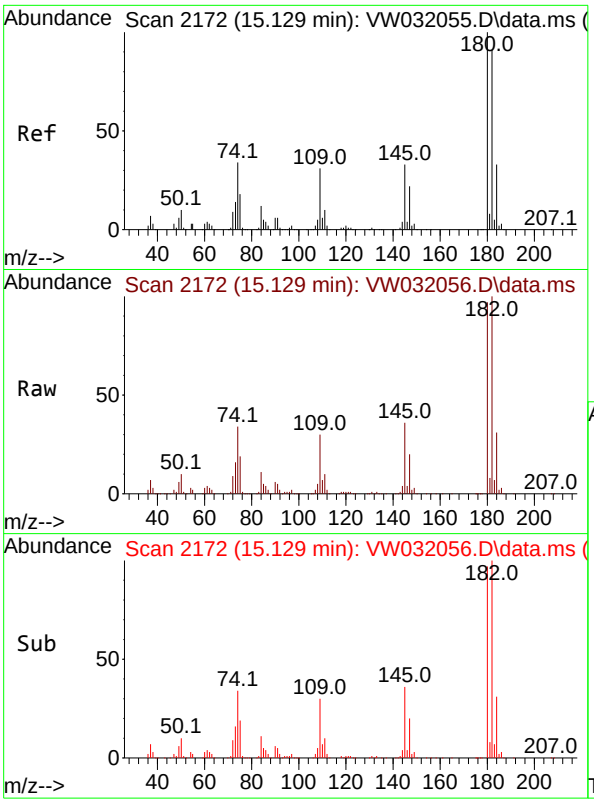


#92
1,2-Dibromo-3-Chloropropane
Concen: 95.632 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 50993

Ion	Ratio	Lower	Upper
75	100		
155	67.2	35.2	105.6
157	97.8	47.5	142.6

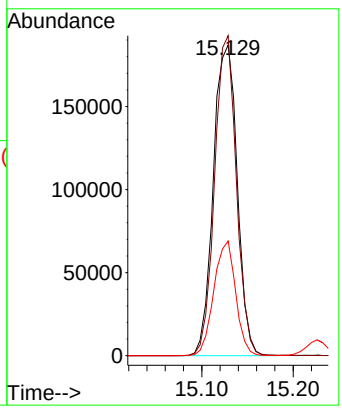




#93
1,2,4-Trichlorobenzene
Concen: 104.094 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:180 Resp: 33866

Ion	Ratio	Lower	Upper
180	100		
182	94.1	49.0	147.0
145	33.9	17.3	51.9



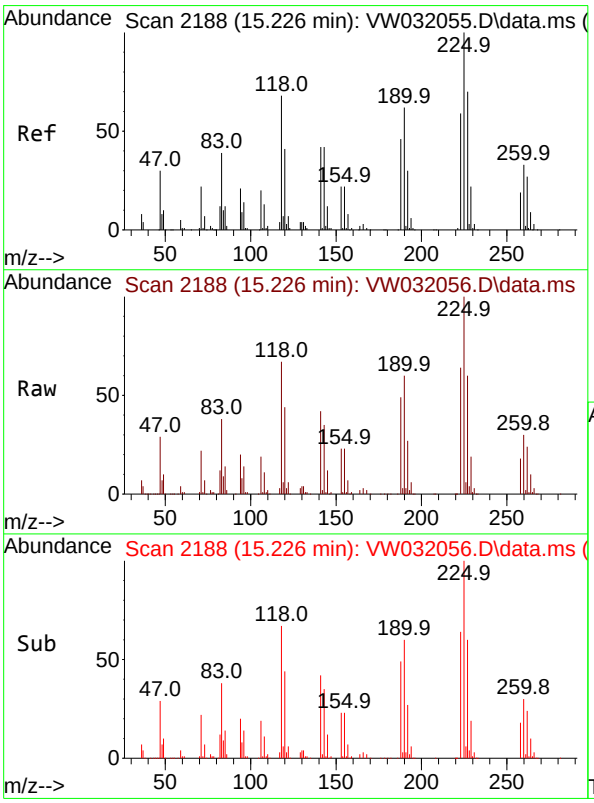
Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025
Supervised By :Semsettin Yesilyurt

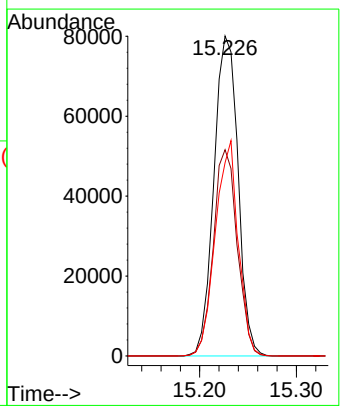
08/12/2025

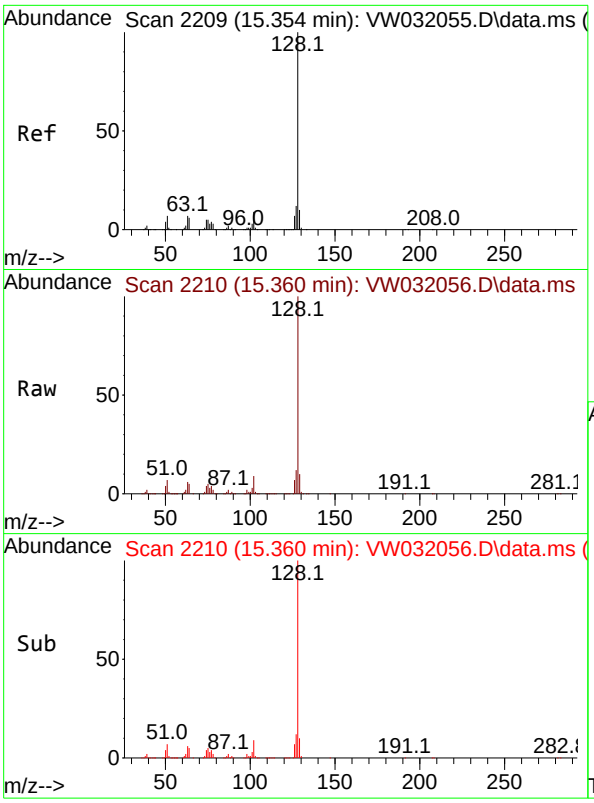


#94
Hexachlorobutadiene
Concen: 95.189 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:225 Resp: 138434

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.8	95.3
227	64.1	33.5	100.5

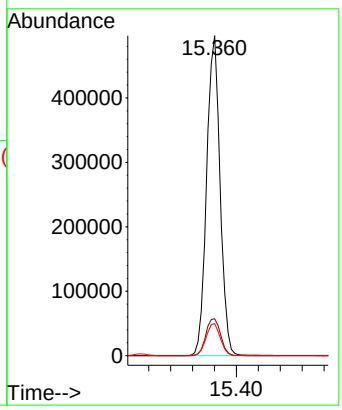




#95
Naphthalene
Concen: 105.533 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:128 Resp: 84129

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.6	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

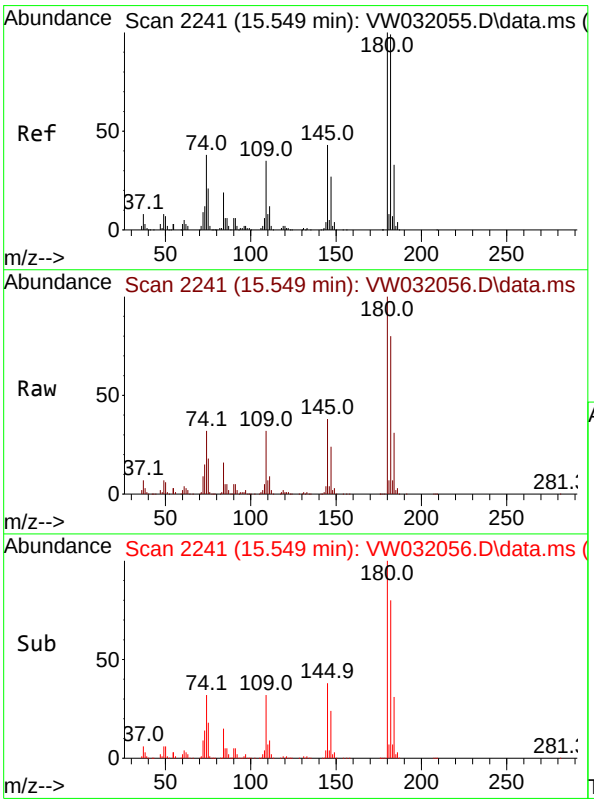
Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025

Supervised By :Semsettin Yesilyurt

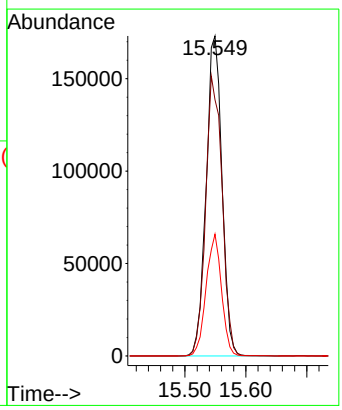
08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 105.748 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:180 Resp: 313033

Ion	Ratio	Lower	Upper
180	100		
182	91.1	46.0	138.0
145	36.9	19.2	57.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	224613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	422167	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	375277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	172321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	469688	144.584	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 289.160%#			
35) Dibromofluoromethane	7.898	113	393306	144.207	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 288.420%#			
50) Toluene-d8	10.331	98	1492050	147.908	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 295.820%#			
62) 4-Bromofluorobenzene	12.617	95	558308	150.185	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 300.380%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	218953	136.294	ug/l	100
3) Chloromethane	2.253	50	315772	145.923	ug/l	97
4) Vinyl Chloride	2.405	62	362119	138.343	ug/l	95
5) Bromomethane	2.808	94	271810	138.413	ug/l	98
6) Chloroethane	2.966	64	247890	143.117	ug/l	99
7) Trichlorofluoromethane	3.301	101	339384	161.851	ug/l	98
8) Diethyl Ether	3.722	74	254566	148.178	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	343759	138.957	ug/l	99
10) Methyl Iodide	4.301	142	514954	146.812	ug/l	100
11) Tert butyl alcohol	5.222	59	164147	780.336	ug/l	99
12) 1,1-Dichloroethene	4.076	96	388559	142.642	ug/l	94
13) Acrolein	3.929	56	224901	671.009	ug/l	98
14) Allyl chloride	4.704	41	600290	151.415	ug/l	99
15) Acrylonitrile	5.399	53	629942	769.843	ug/l	99
16) Acetone	4.161	43	528585	702.794	ug/l	100
17) Carbon Disulfide	4.423	76	1081188	147.872	ug/l	98
18) Methyl Acetate	4.710	43	371024	155.895	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	719923	149.999	ug/l	100
20) Methylene Chloride	4.960	84	437275	125.744	ug/l	95
21) trans-1,2-Dichloroethene	5.454	96	427242	147.794	ug/l	96
22) Diisopropyl ether	6.344	45	1260898	150.866	ug/l	98
23) Vinyl Acetate	6.283	43	4356523	793.927	ug/l	99
24) 1,1-Dichloroethane	6.240	63	782153	146.472	ug/l	99
25) 2-Butanone	7.191	43	837991	783.936	ug/l	100
26) 2,2-Dichloropropane	7.185	77	393976	147.064	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	518413	153.420	ug/l	98
28) Bromochloromethane	7.532	49	356684	146.781	ug/l	99
29) Tetrahydrofuran	7.551	42	549203	779.054	ug/l	99
30) Chloroform	7.691	83	823850	145.528	ug/l	98
31) Cyclohexane	7.971	56	645762	139.490	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	591372	143.816	ug/l	98
36) 1,1-Dichloropropene	8.093	75	556189	144.659	ug/l	99
37) Ethyl Acetate	7.276	43	348970	154.109	ug/l	99
38) Carbon Tetrachloride	8.087	117	544688	146.799	ug/l	97
39) Methylcyclohexane	9.343	83	732413	156.286	ug/l	99
40) Benzene	8.337	78	1770706	148.159	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	205729	160.204	ug/l		97
42) 1,2-Dichloroethane	8.410	62	552184	144.388	ug/l		100
43) Isopropyl Acetate	8.435	43	665712	159.788	ug/l		100
44) Trichloroethene	9.099	130	424873	149.281	ug/l		93
45) 1,2-Dichloropropane	9.374	63	429280	148.679	ug/l		100
46) Dibromomethane	9.465	93	277058	148.678	ug/l		99
47) Bromodichloromethane	9.648	83	653476	152.185	ug/l		99
48) Methyl methacrylate	9.441	41	330511	164.326	ug/l		99
49) 1,4-Dioxane	9.459	88	79016	3279.484	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.215	43	1817273	772.800	ug/l		99
52) Toluene	10.392	92	1142813	151.812	ug/l		96
53) t-1,3-Dichloropropene	10.605	75	654765	162.760	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	716583	157.011	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	364680	147.271	ug/l		98
56) Ethyl methacrylate	10.648	69	553265	166.963	ug/l		99
57) 1,3-Dichloropropane	10.934	76	644418	149.298	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	1437682	784.377	ug/l		99
59) 2-Hexanone	10.971	43	1278917	785.288	ug/l		98
60) Dibromochloromethane	11.129	129	442362	156.387	ug/l		99
61) 1,2-Dibromoethane	11.239	107	363192	150.929	ug/l		96
64) Tetrachloroethene	10.867	164	326491	150.622	ug/l		94
65) Chlorobenzene	11.660	112	1230240	150.609	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	400167	157.017	ug/l		97
67) Ethyl Benzene	11.733	91	2162983	156.328	ug/l		97
68) m/p-Xylenes	11.837	106	1643338	307.801	ug/l		100
69) o-Xylene	12.166	106	786831	159.450	ug/l		99
70) Styrene	12.178	104	1406640	160.482	ug/l		97
71) Bromoform	12.349	173	238675	163.720	ug/l	#	93
73) Isopropylbenzene	12.464	105	1977280	164.188	ug/l		99
74) N-amyl acetate	12.269	43	589285	170.556	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	449708	157.276	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	334775m	126.378	ug/l		
77) Bromobenzene	12.745	156	440559	153.167	ug/l		98
78) n-propylbenzene	12.800	91	2346333	158.253	ug/l		99
79) 2-Chlorotoluene	12.891	91	1434986	156.820	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	1639597	160.368	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	157641	174.499	ug/l		96
82) 4-Chlorotoluene	12.983	91	1515300	155.863	ug/l		98
83) tert-Butylbenzene	13.202	119	1383127	163.006	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	1646381	158.189	ug/l		100
85) sec-Butylbenzene	13.379	105	2047763	159.625	ug/l		99
86) p-Isopropyltoluene	13.495	119	1712519	160.127	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	867827	151.629	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	851057	147.144	ug/l		99
89) n-Butylbenzene	13.818	91	1657492	159.527	ug/l		98
90) Hexachloroethane	14.086	117	322461	164.868	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	798257	153.968	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	81063	159.472	ug/l		94
93) 1,2,4-Trichlorobenzene	15.123	180	499355	161.006	ug/l		98
94) Hexachlorobutadiene	15.226	225	218963	157.938	ug/l		97
95) Naphthalene	15.360	128	1348344	177.424	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	466811	165.423	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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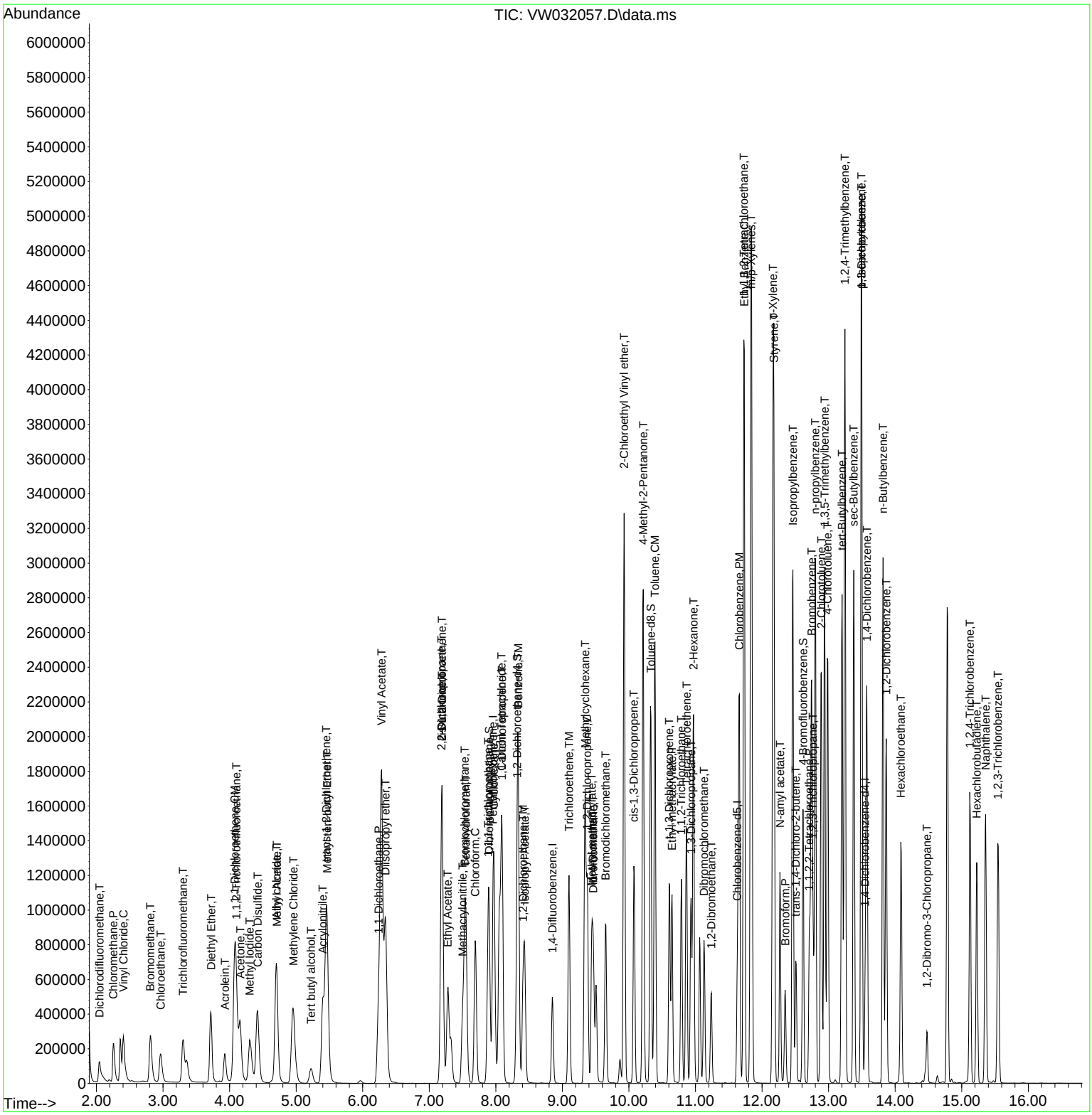

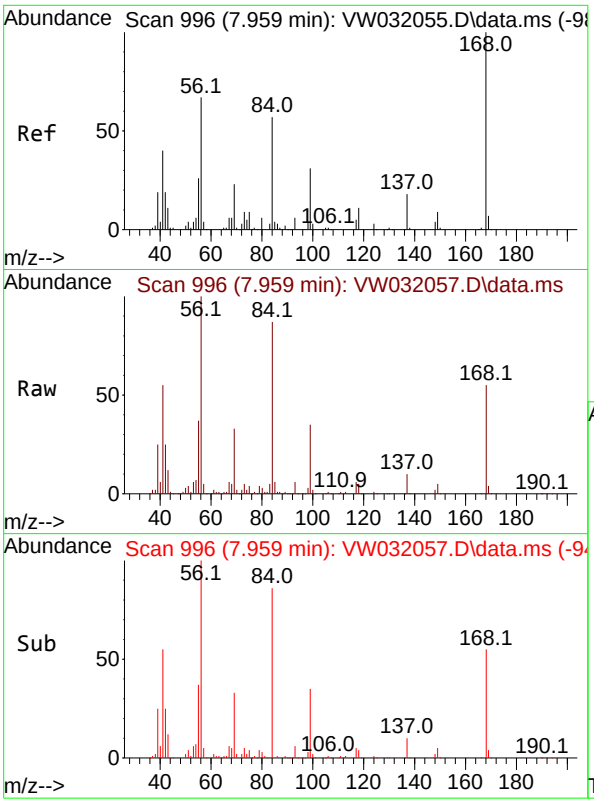

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:168 Resp: 22461

Ion	Ratio	Lower	Upper
168	100		
99	63.4	56.0	84.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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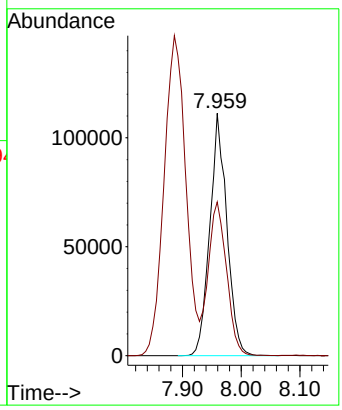
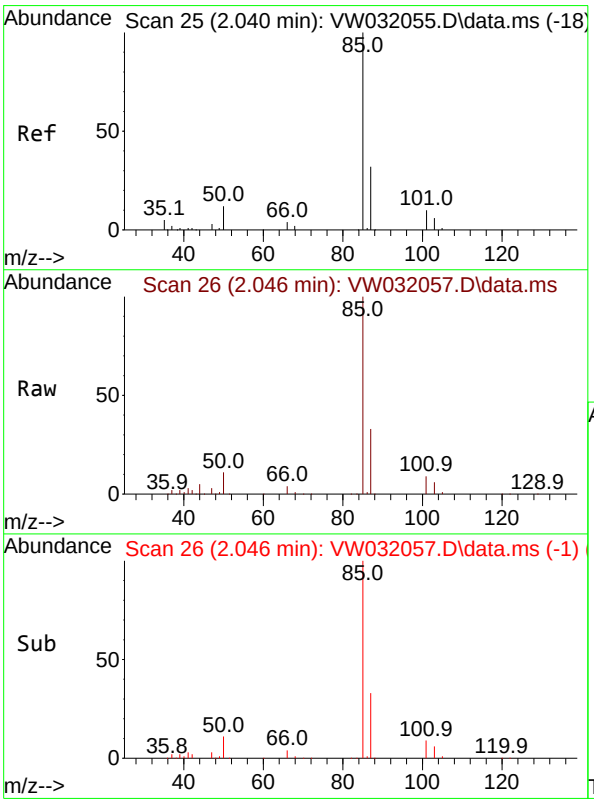
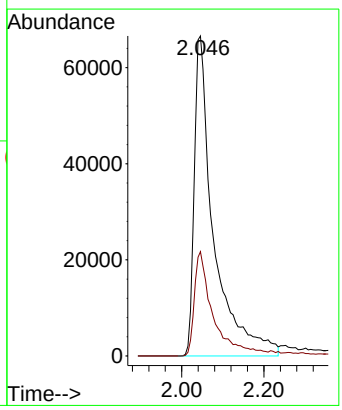


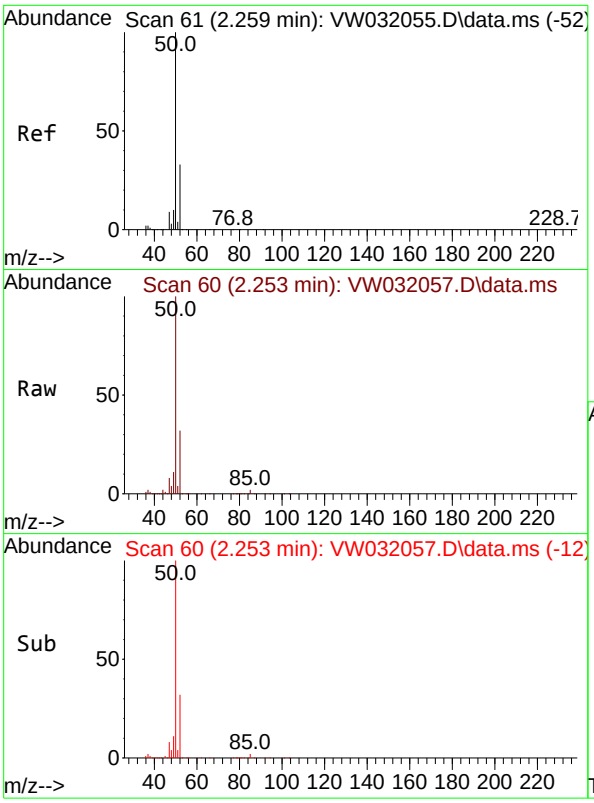


#2
Dichlorodifluoromethane
Concen: 136.294 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 85 Resp: 218953

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6





#3
Chloromethane
Concen: 145.923 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 50 Resp: 31577

Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.6	39.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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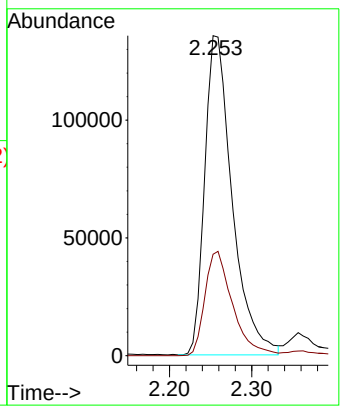
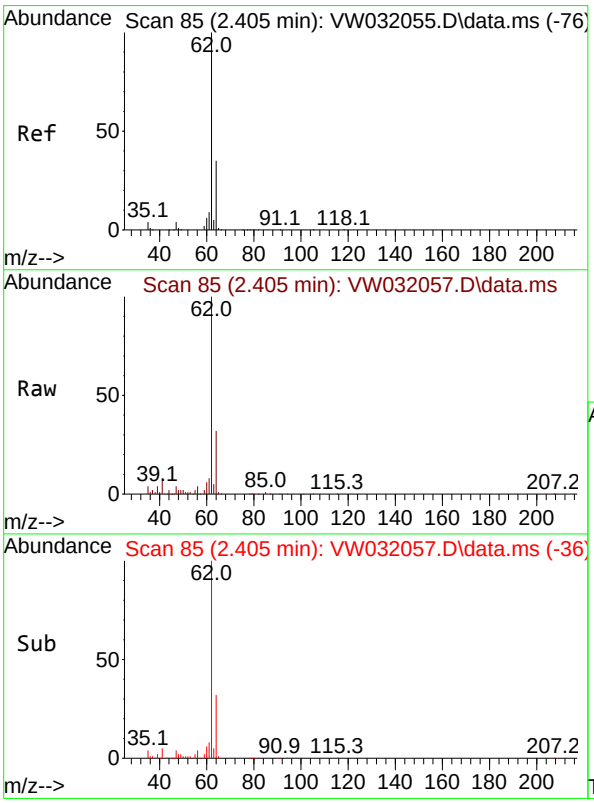
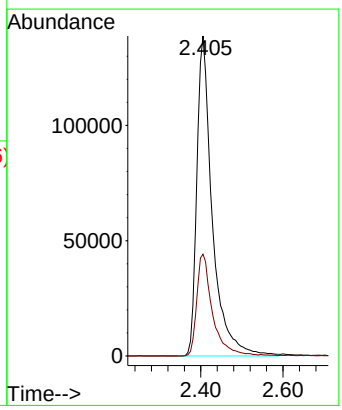


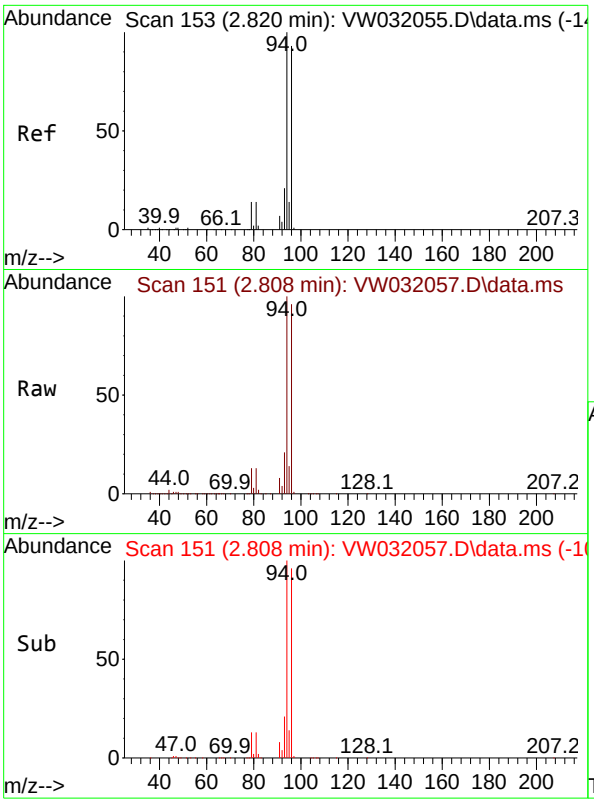


#4
Vinyl Chloride
Concen: 138.343 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 362119

Ion	Ratio	Lower	Upper
62	100		
64	31.8	27.8	41.6

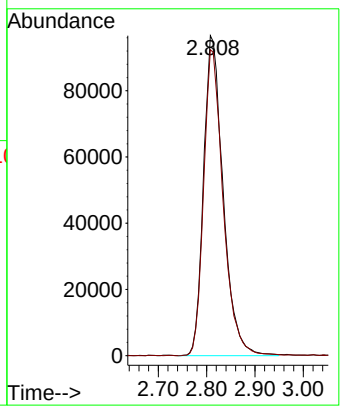




#5
Bromomethane
Concen: 138.413 ug/l
RT: 2.808 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 94 Resp: 27181

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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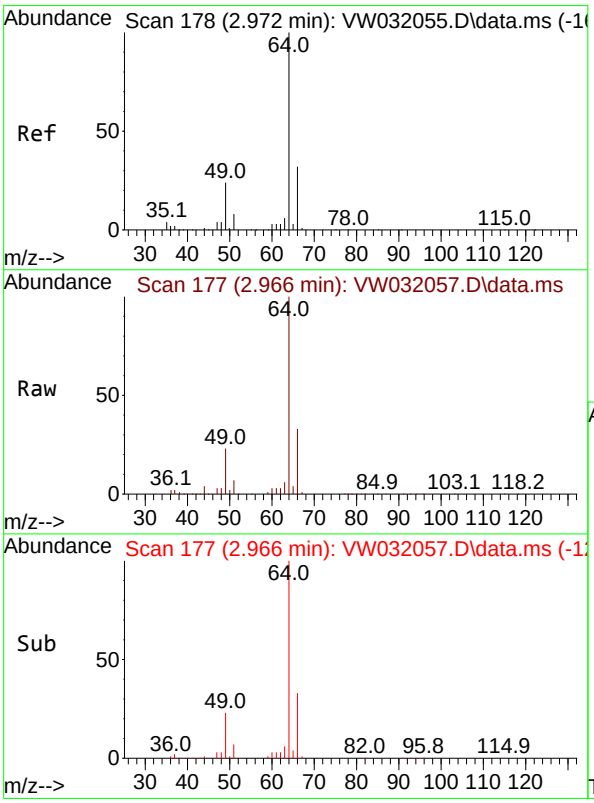
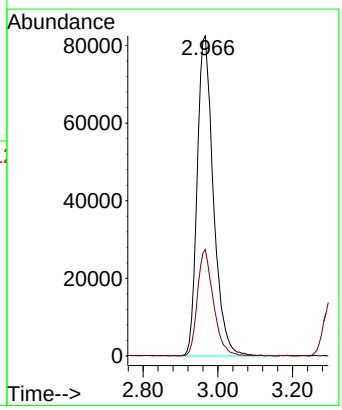
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

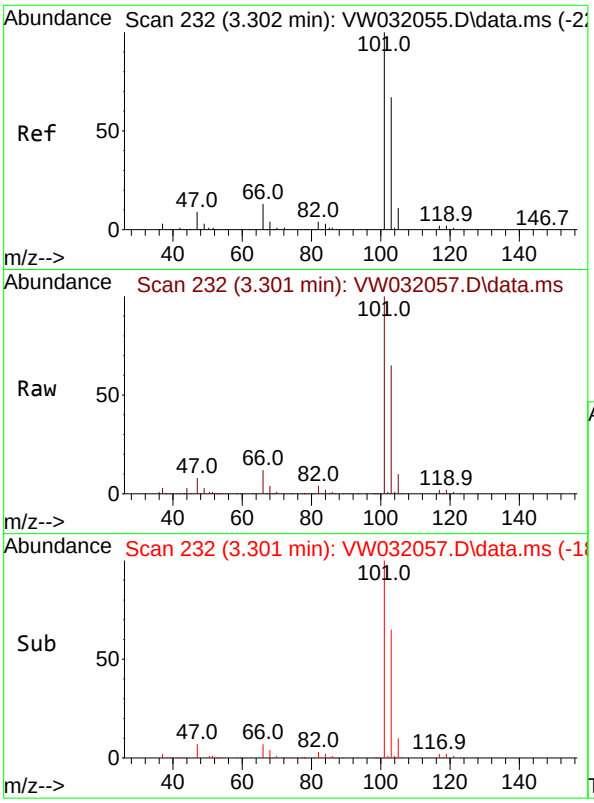


#6
Chloroethane
Concen: 143.117 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 64 Resp: 247890

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.0	39.0

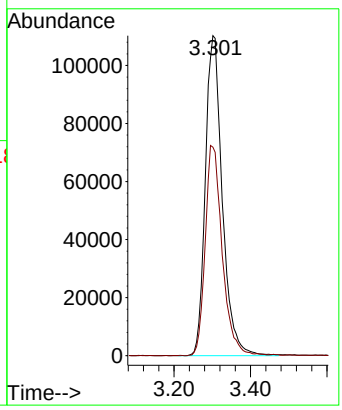




#7
Trichlorofluoromethane
Concen: 161.851 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:101 Resp: 33938

Ion	Ratio	Lower	Upper
101	100		
103	65.1	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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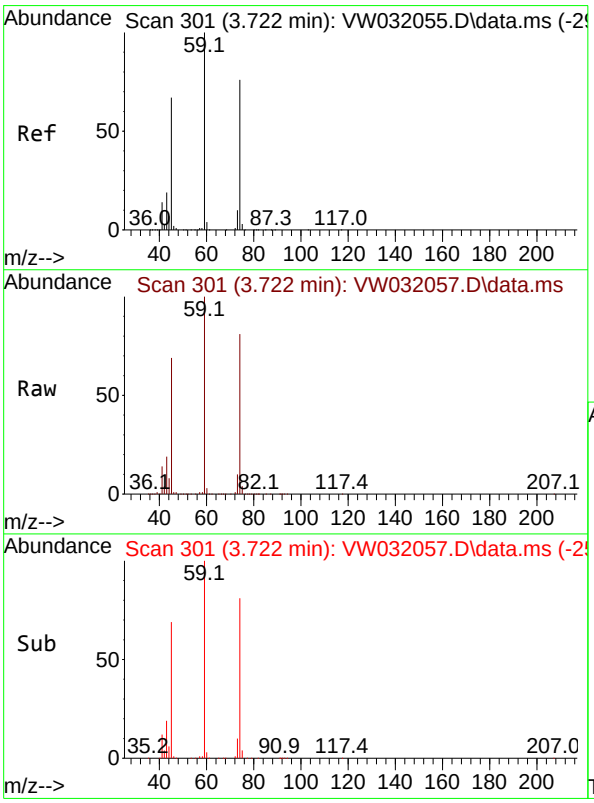
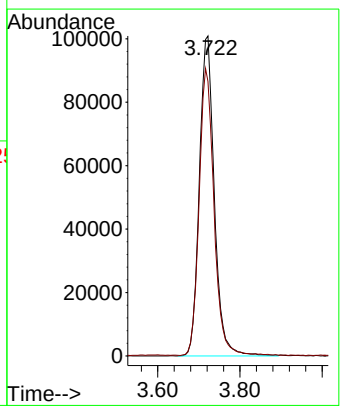
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

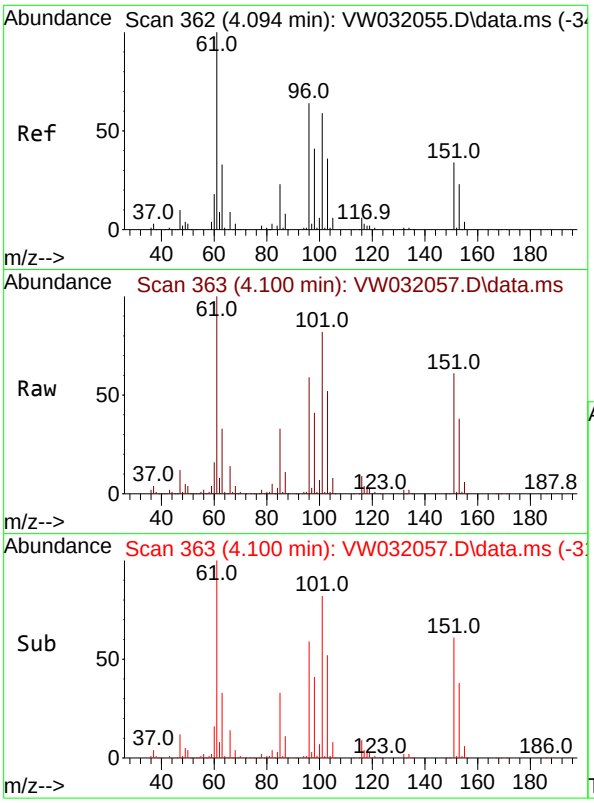


#8
Diethyl Ether
Concen: 148.178 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 74 Resp: 254566

Ion	Ratio	Lower	Upper
74	100		
45	89.1	45.4	136.2

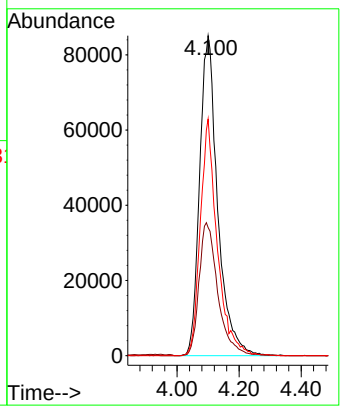




#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.957 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:101 Resp: 34375

Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.9	52.3
151	69.6	56.2	84.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/12/2025
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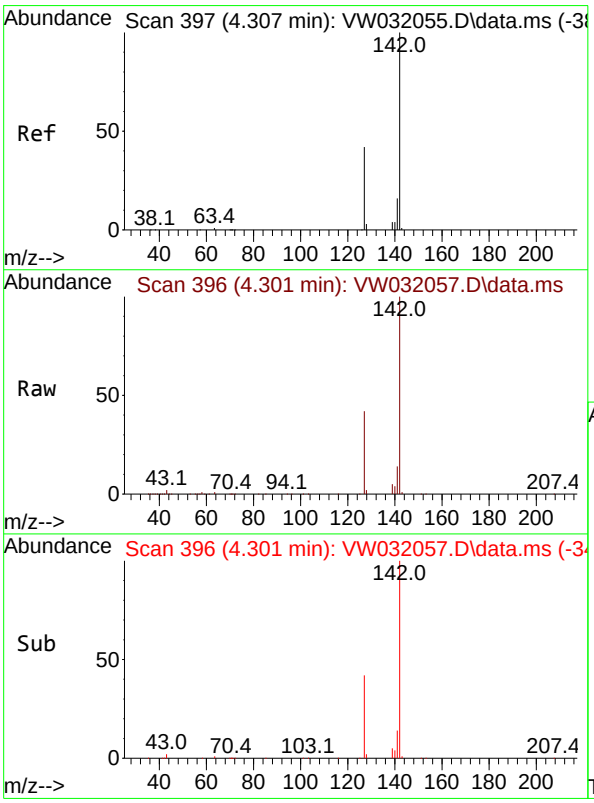
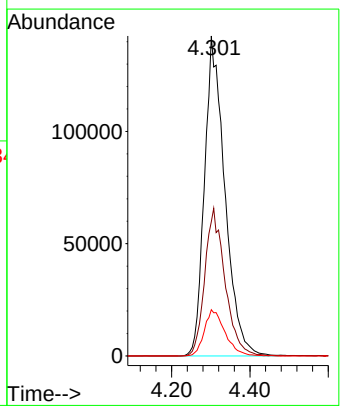
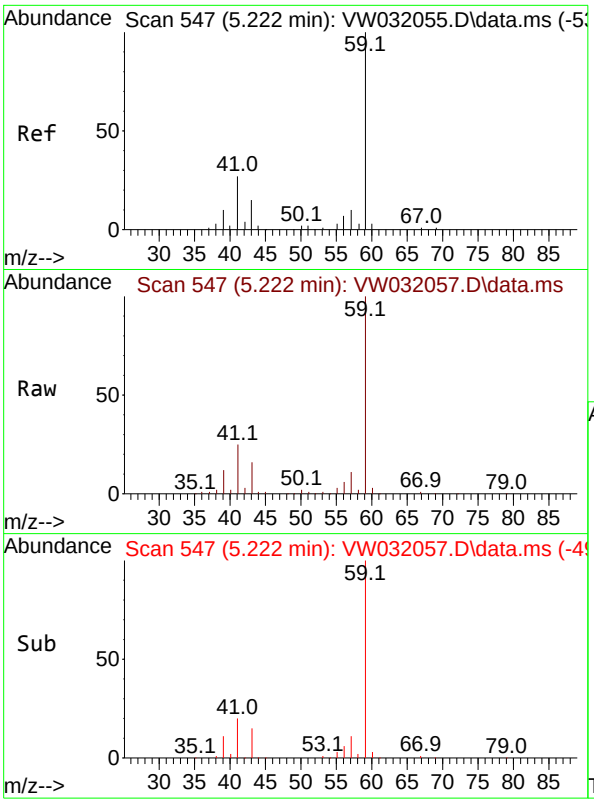


#10
Methyl Iodide
Concen: 146.812 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:142 Resp: 514954

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.6	55.0
141	14.7	12.1	18.1

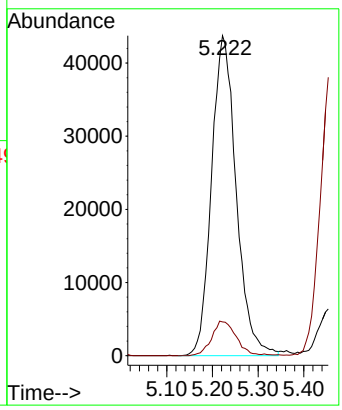




#11
Tert butyl alcohol
Concen: 780.336 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 59 Resp: 16414

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/12/2025
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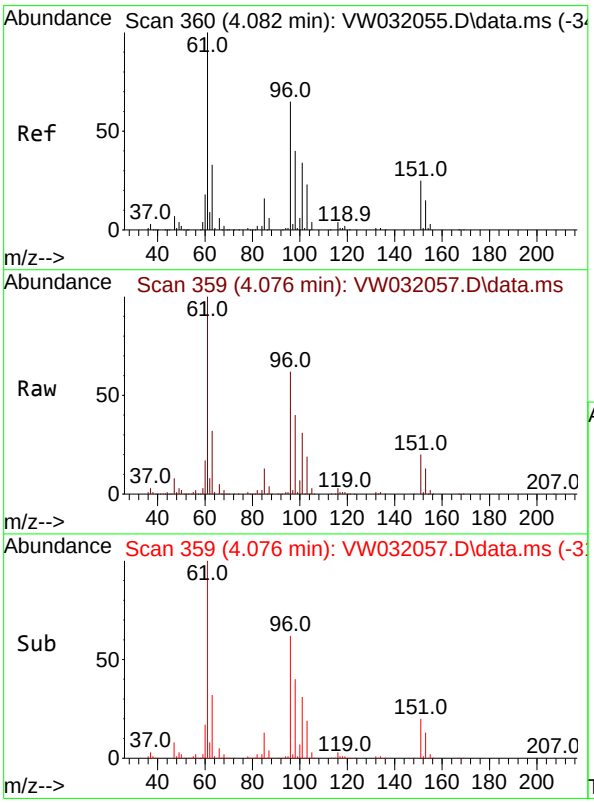
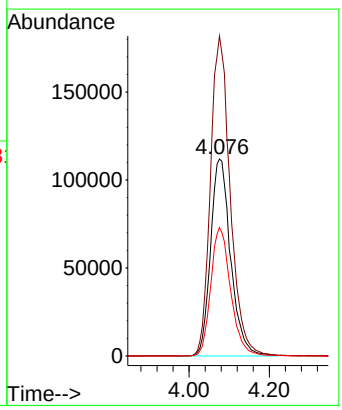
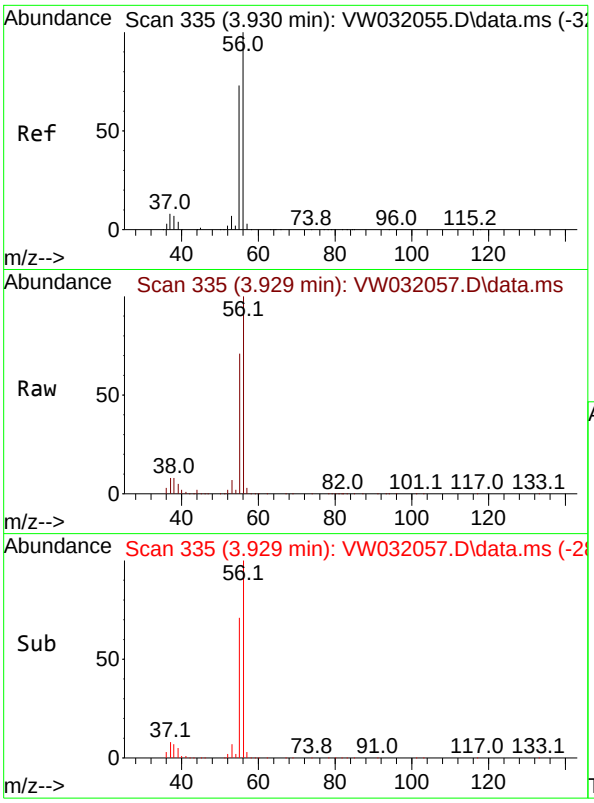


#12
1,1-Dichloroethene
Concen: 142.642 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 388559

Ion	Ratio	Lower	Upper
96	100		
61	162.4	123.4	185.2
98	65.3	49.5	74.3

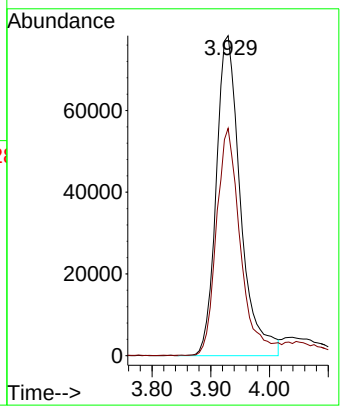




#13
Acrolein
Concen: 671.009 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 56 Resp: 22490

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
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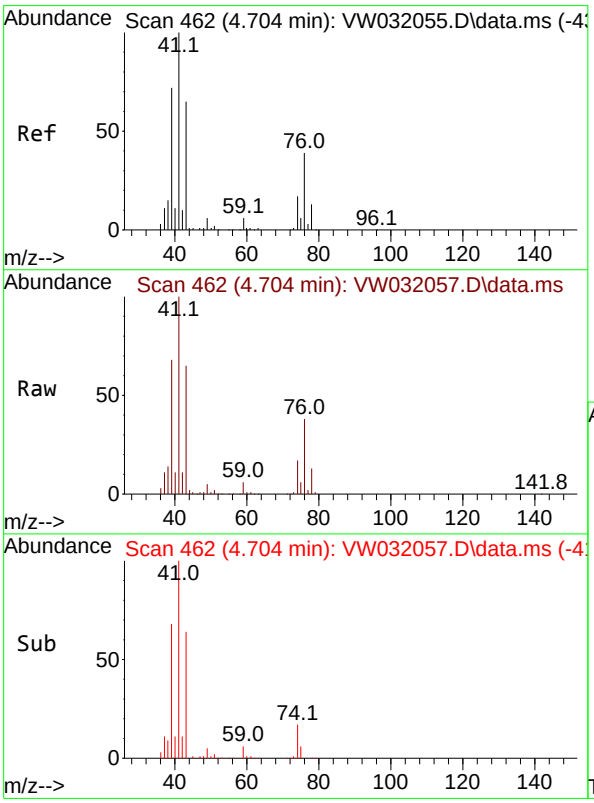
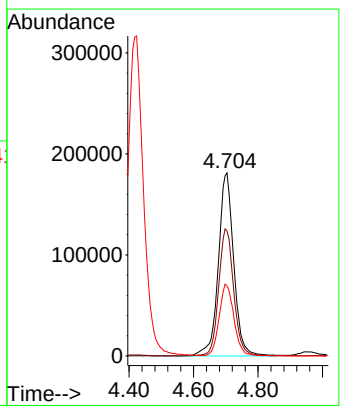
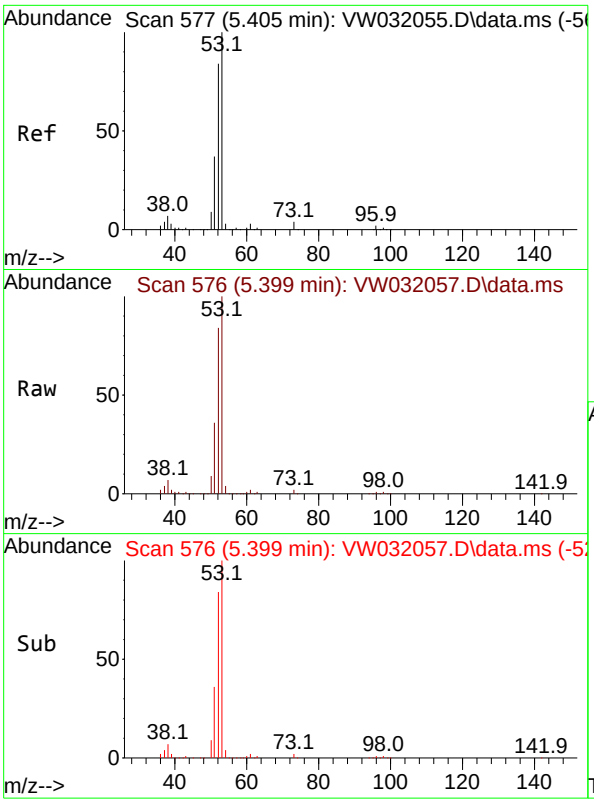


#14
Allyl chloride
Concen: 151.415 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 600290

Ion	Ratio	Lower	Upper
41	100		
39	67.6	54.5	81.7
76	37.6	29.3	43.9

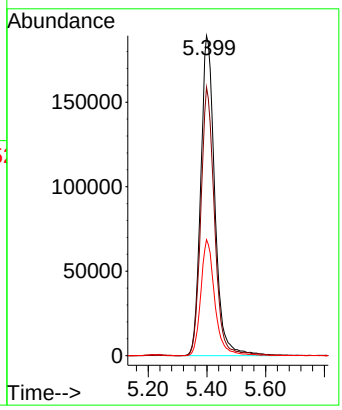




#15
Acrylonitrile
Concen: 769.843 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 53 Resp: 62994

Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.1	99.1
51	36.1	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
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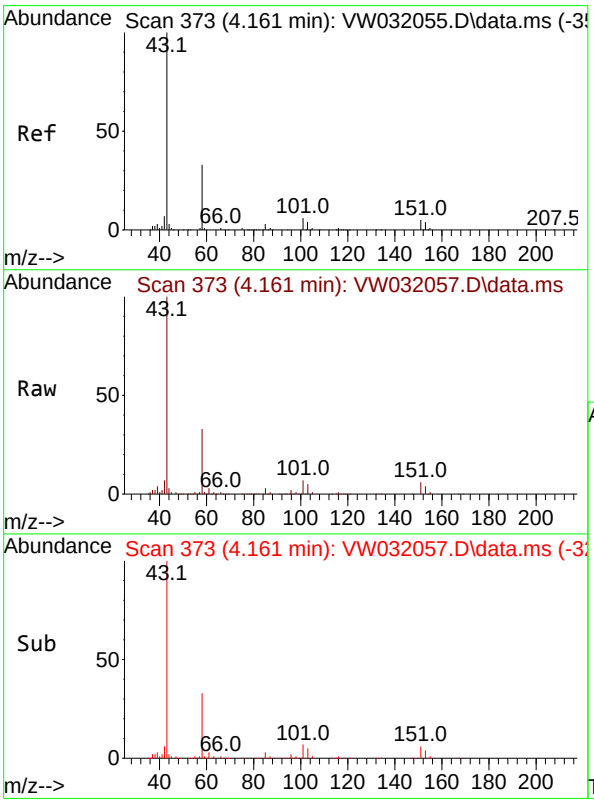
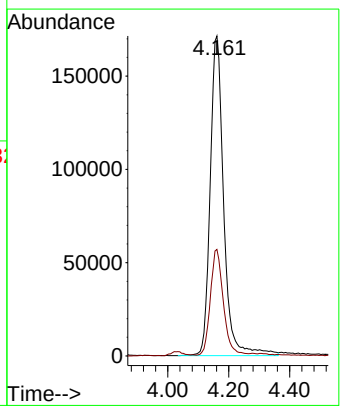
Supervised By :Semsettin Yesilyurt 08/12/2025

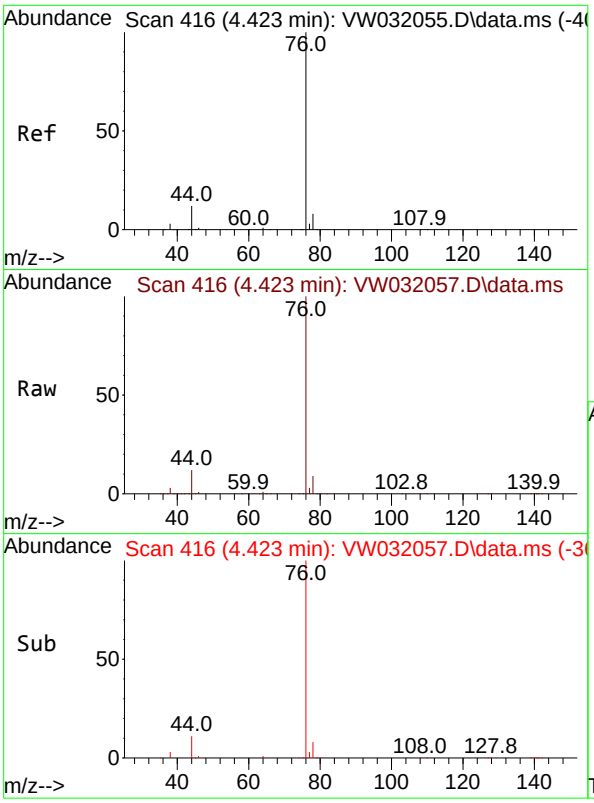


#16
Acetone
Concen: 702.794 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 528585

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8

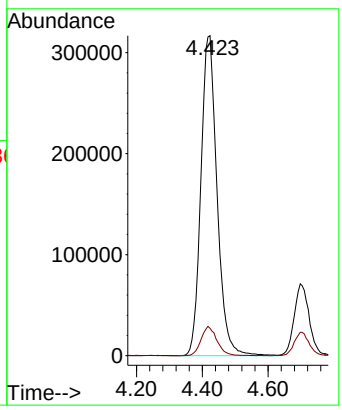




#17
Carbon Disulfide
Concen: 147.872 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 76 Resp: 108118

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
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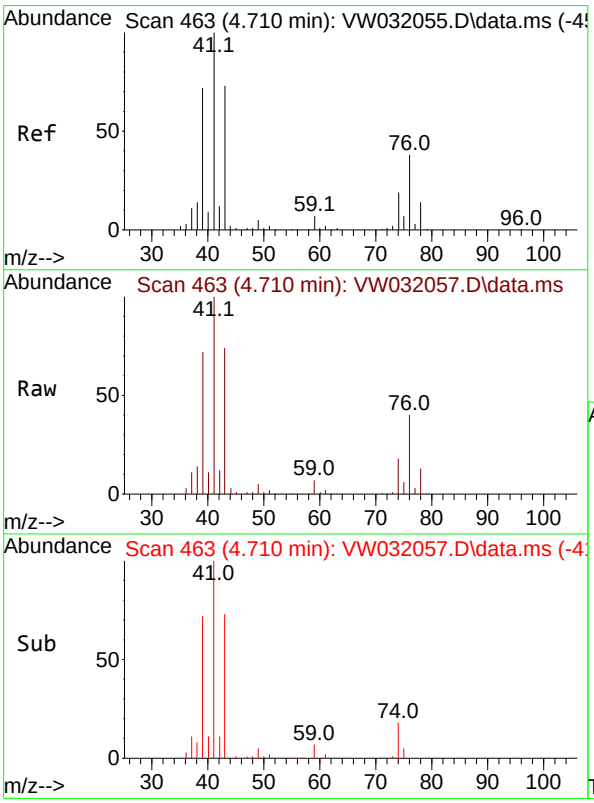
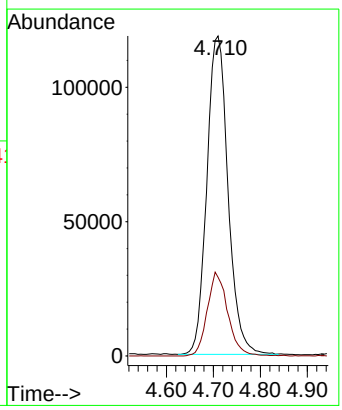
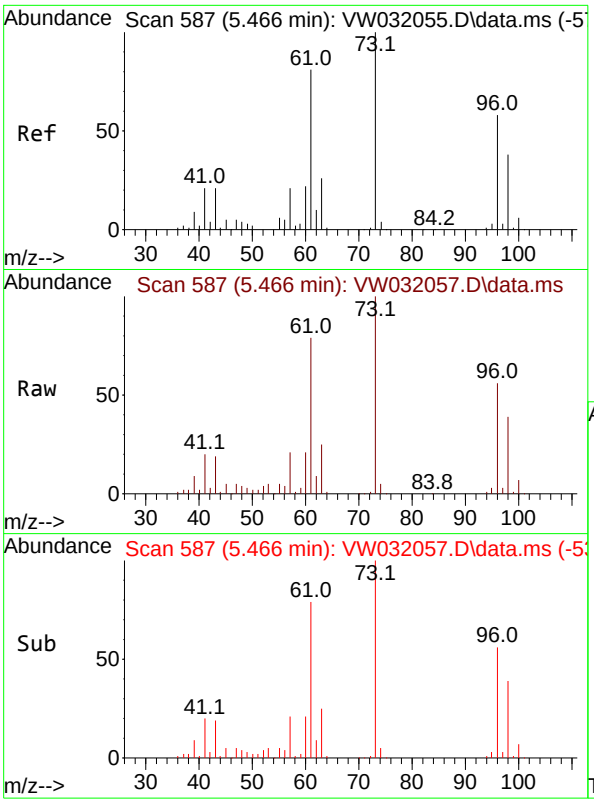


#18
Methyl Acetate
Concen: 155.895 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 371024

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.6	31.0





#19
Methyl tert-butyl Ether
Concen: 149.999 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 73 Resp: 71992

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.2	25.8

Instrument :
MSVOA_W
ClientSampleId :
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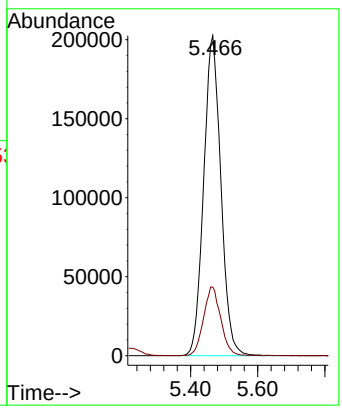
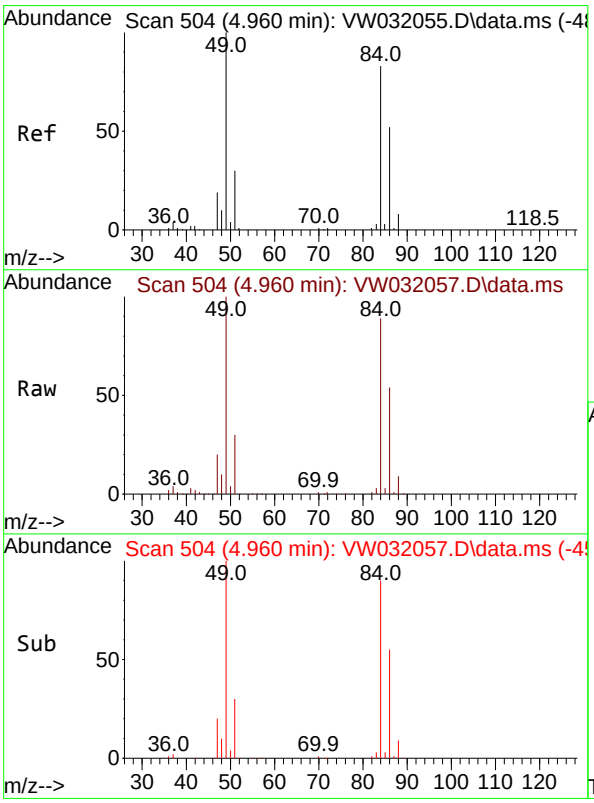
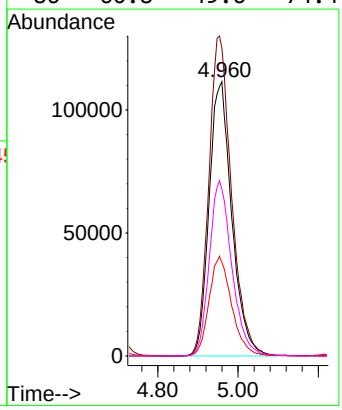


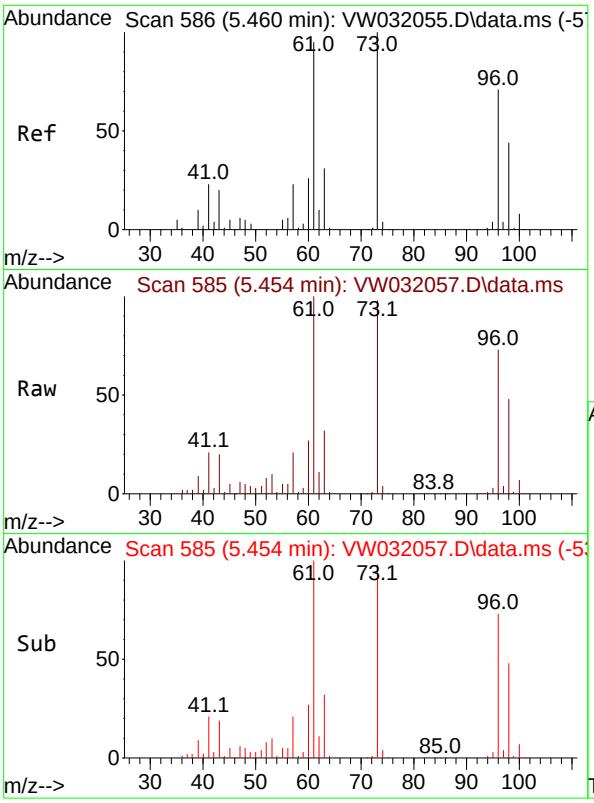


#20
Methylene Chloride
Concen: 125.744 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 84 Resp: 437275

Ion	Ratio	Lower	Upper
84	100		
49	112.3	95.9	143.9
51	34.1	28.6	43.0
86	60.8	49.6	74.4

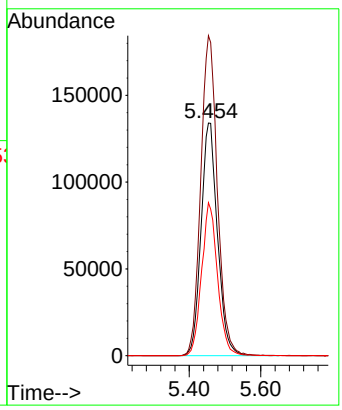




#21
trans-1,2-Dichloroethene
Concen: 147.794 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 42724

Ion	Ratio	Lower	Upper
96	100		
61	137.5	106.8	160.2
98	65.7	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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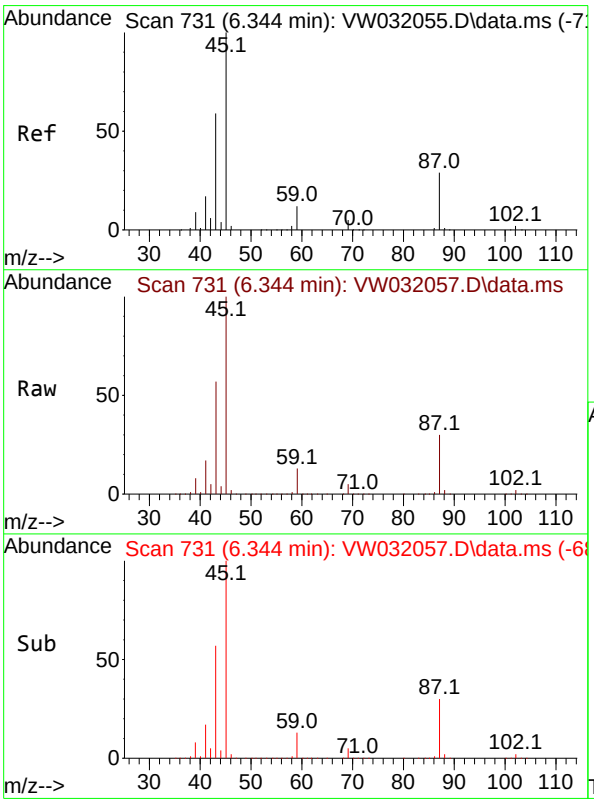
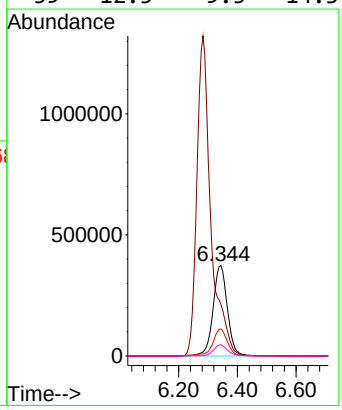
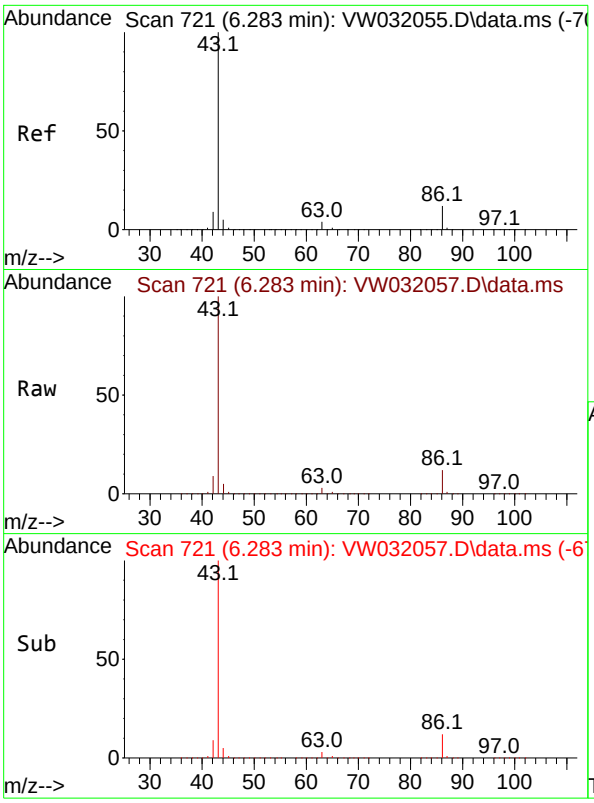


#22
Diisopropyl ether
Concen: 150.866 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 45 Resp: 1260898

Ion	Ratio	Lower	Upper
45	100		
43	57.1	47.0	70.4
87	30.0	23.8	35.8
59	12.5	9.5	14.3





#23
Vinyl Acetate
Concen: 793.927 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 435652

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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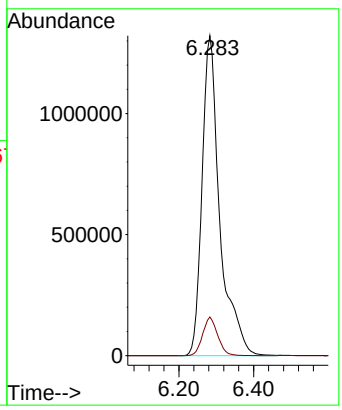
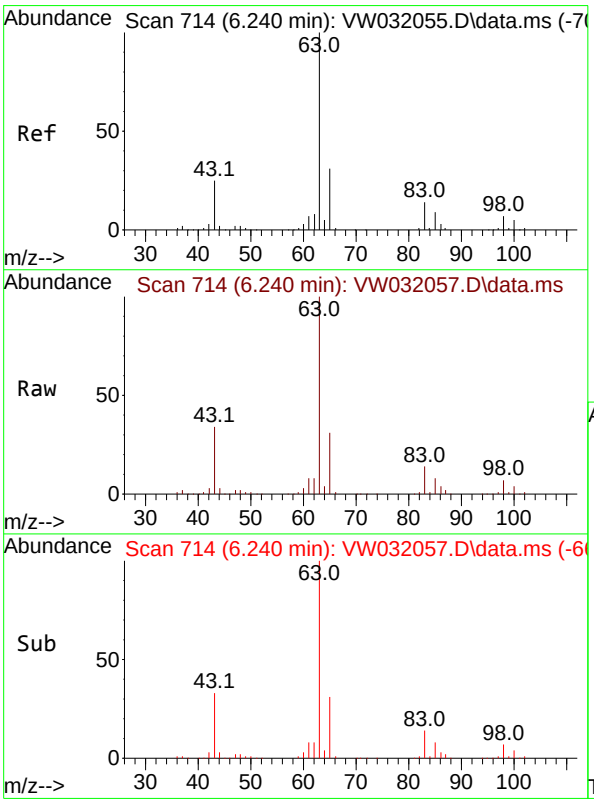
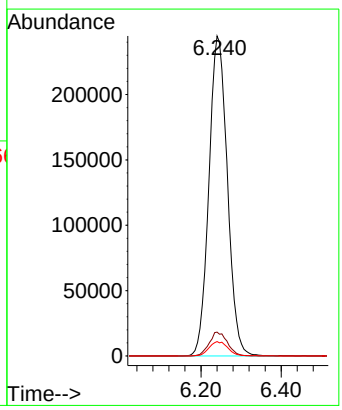


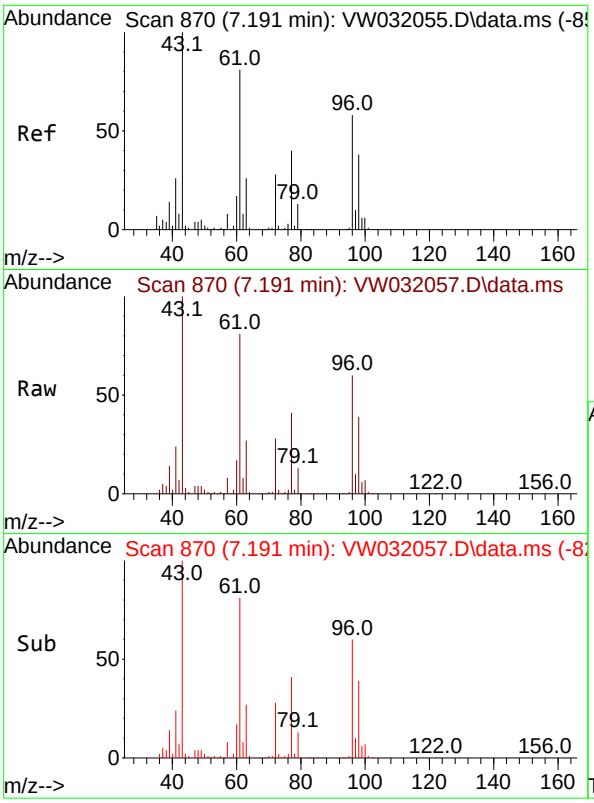


#24
1,1-Dichloroethane
Concen: 146.472 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 782153

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.7	11.1
100	4.5	2.5	7.4

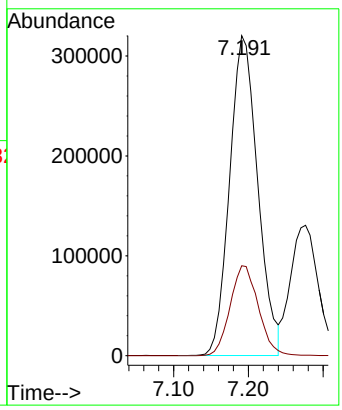




#25
2-Butanone
Concen: 783.936 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 83799

Ion	Ratio	Lower	Upper
43	100		
72	28.1	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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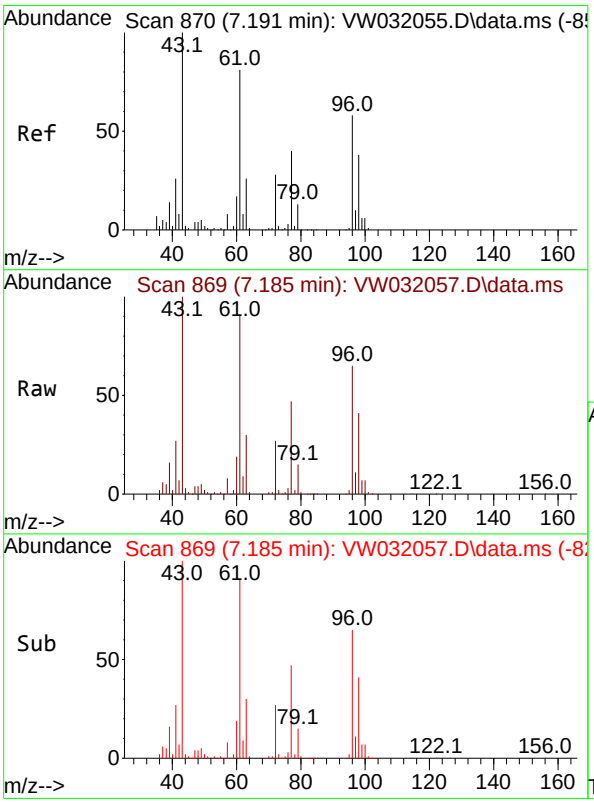
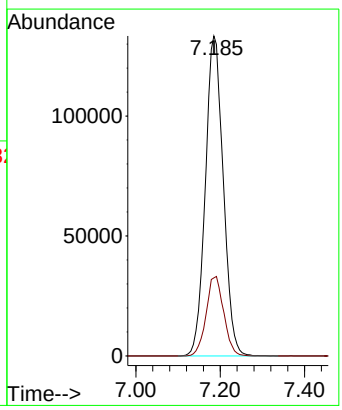
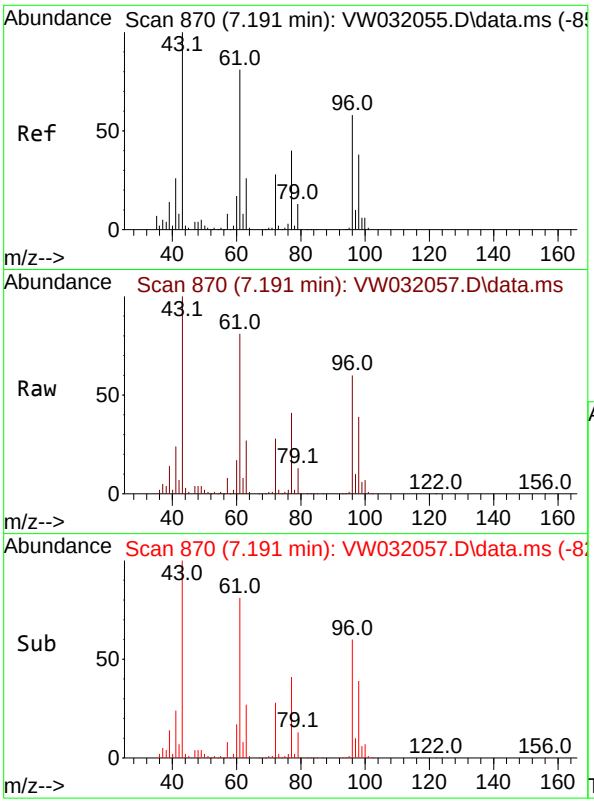


#26
2,2-Dichloropropane
Concen: 147.064 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 77 Resp: 393976

Ion	Ratio	Lower	Upper
77	100		
97	24.4	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 153.420 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 51841

Ion	Ratio	Lower	Upper
96	100		
61	138.5	0.0	281.2
98	64.2	0.0	130.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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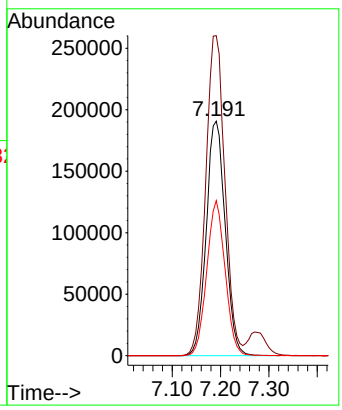
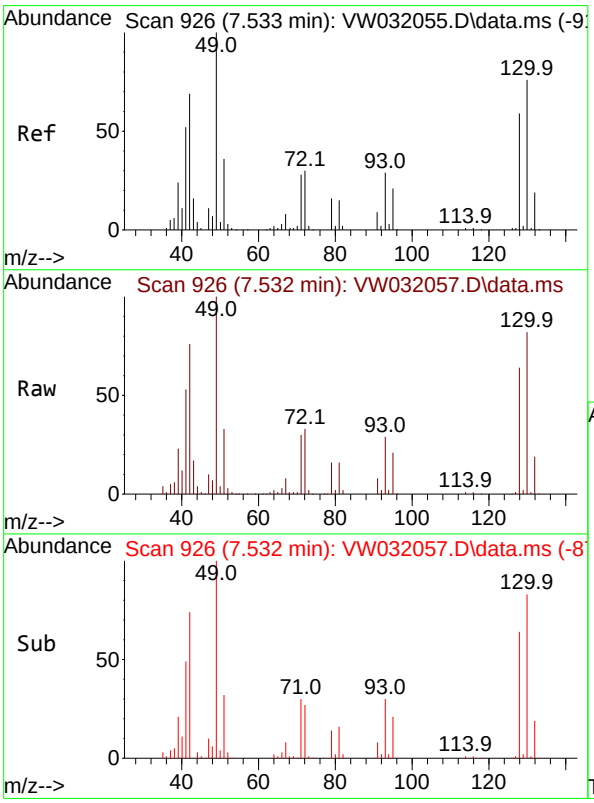
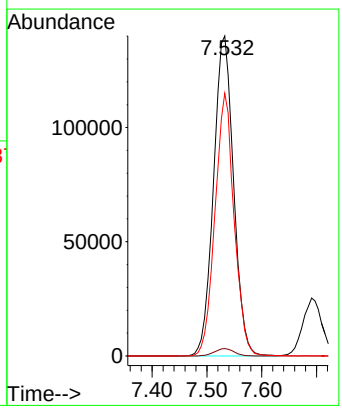


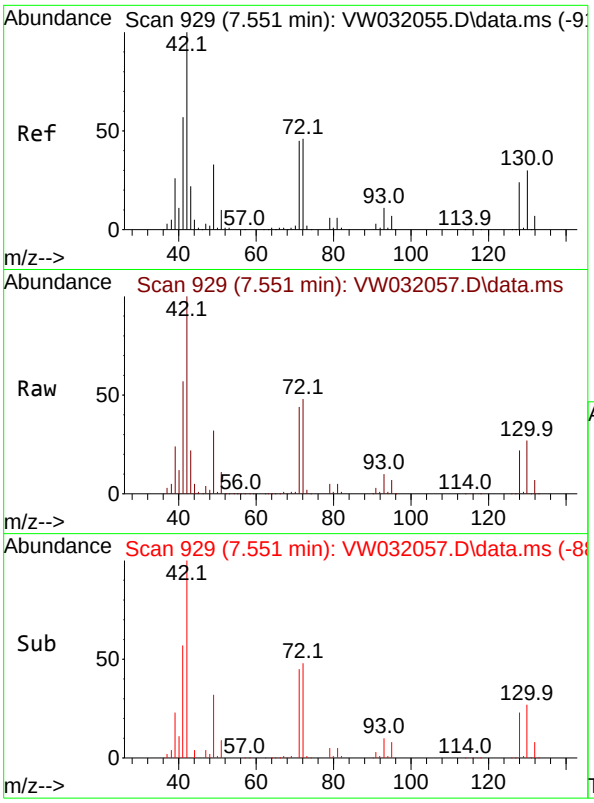


#28
Bromochloromethane
Concen: 146.781 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 49 Resp: 356684

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	78.3	61.9	92.9

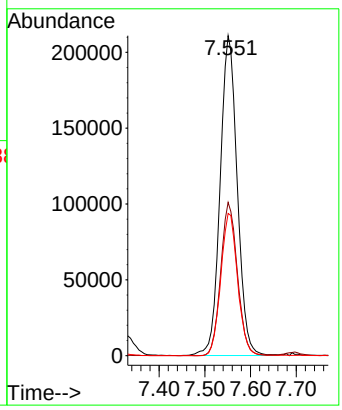




#29
Tetrahydrofuran
Concen: 779.054 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 42 Resp: 54920

Ion	Ratio	Lower	Upper
42	100		
72	46.7	36.6	55.0
71	43.8	34.7	52.1



Instrument :
MSVOA_W
ClientSampleId :
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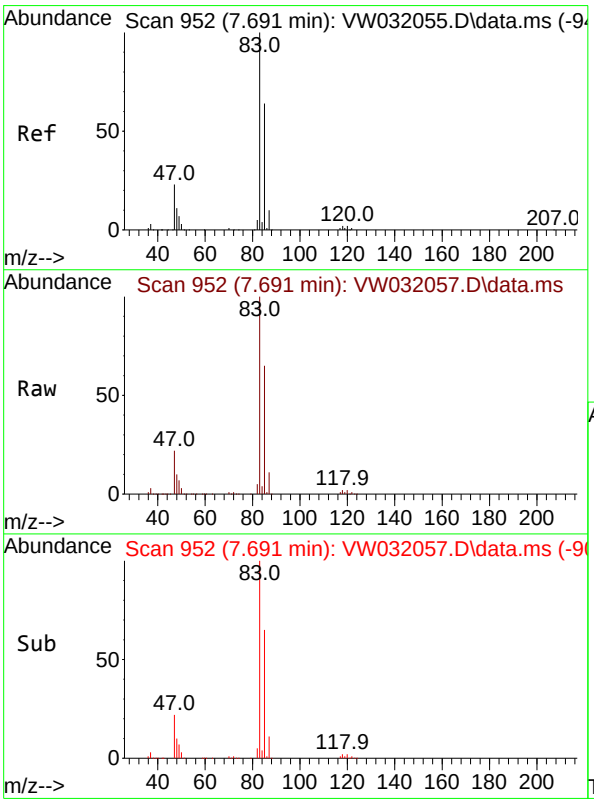
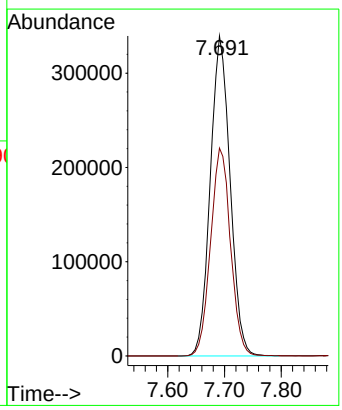
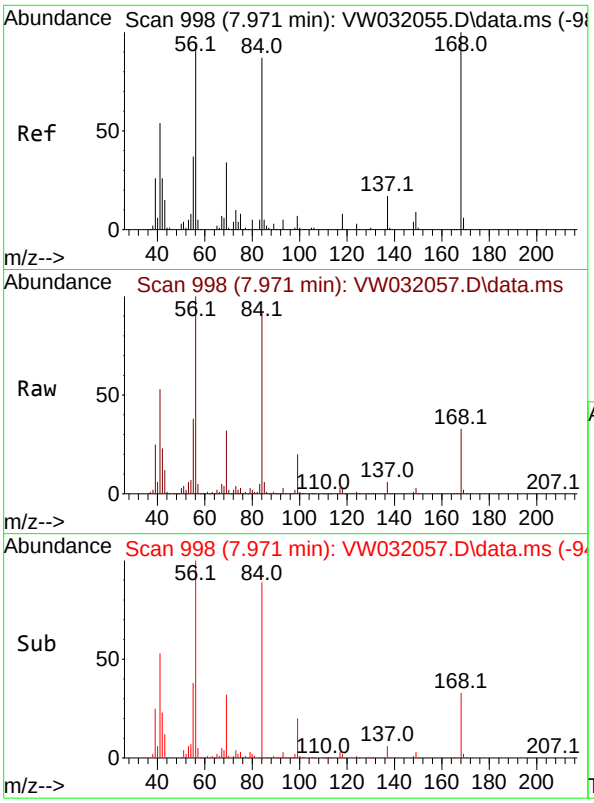


#30
Chloroform
Concen: 145.528 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 823850

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.0	76.4





#31
Cyclohexane
Concen: 139.490 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 56 Resp: 64576

Ion	Ratio	Lower	Upper
56	100		
69	32.0	28.6	42.8
84	90.3	73.0	109.4

Instrument :
MSVOA_W
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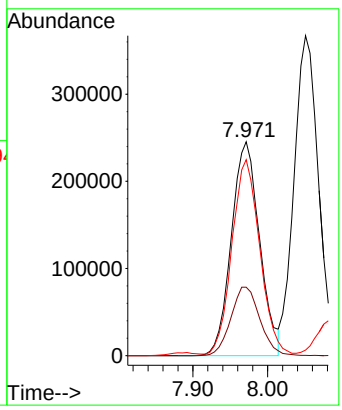
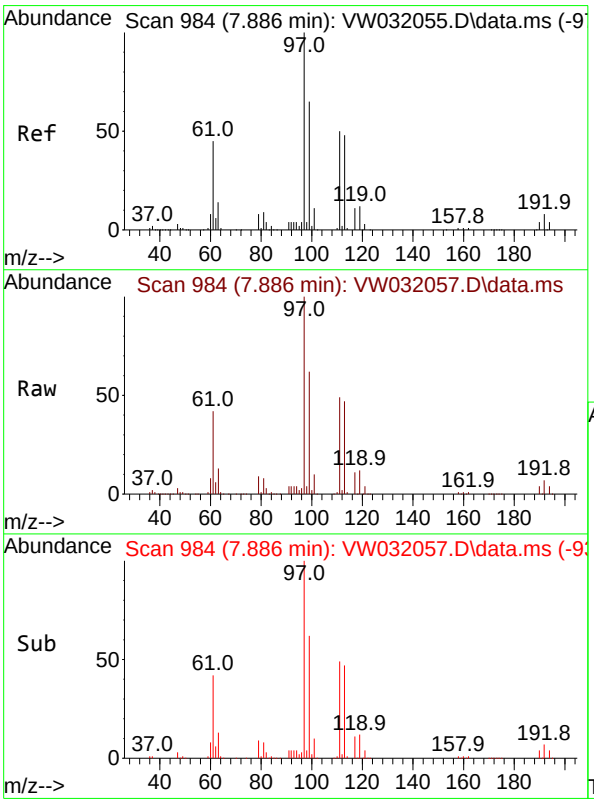
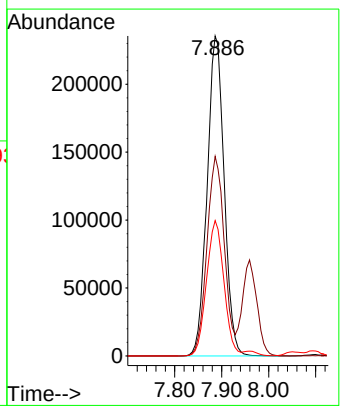


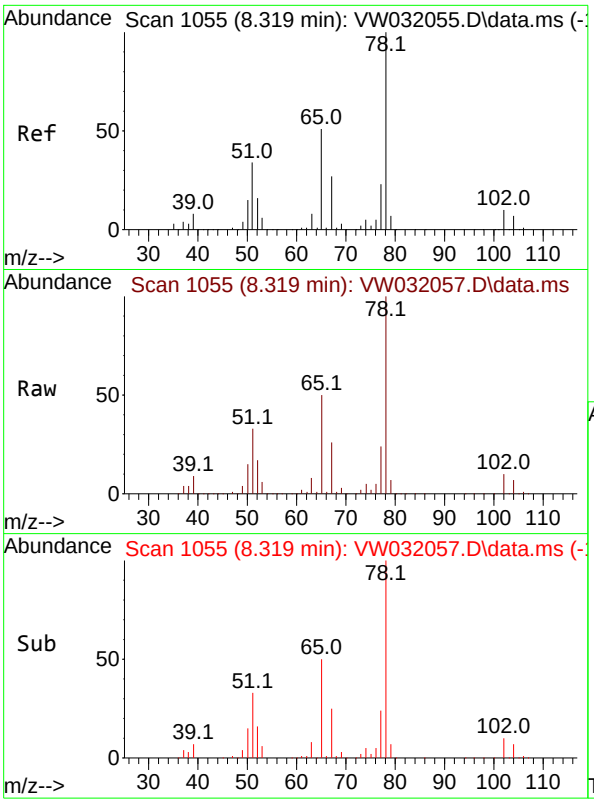


#32
1,1,1-Trichloroethane
Concen: 143.816 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 97 Resp: 591372

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.8	77.8
61	43.3	35.9	53.9

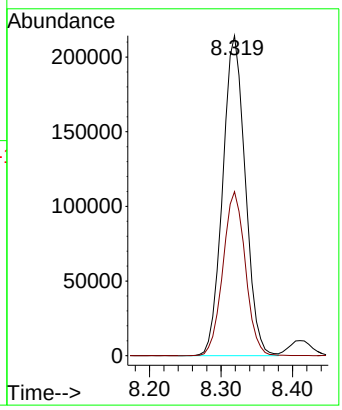




#33
1,2-Dichloroethane-d4
Concen: 144.584 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 65 Resp: 46968

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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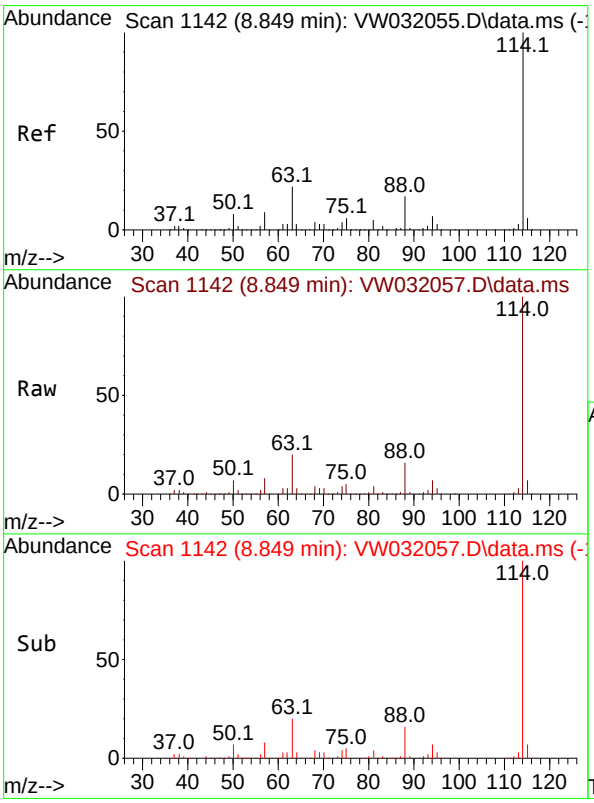
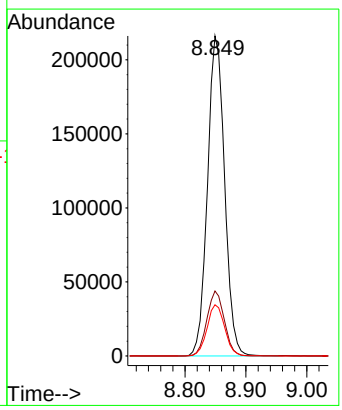
Supervised By :Semsettin Yesilyurt 08/12/2025

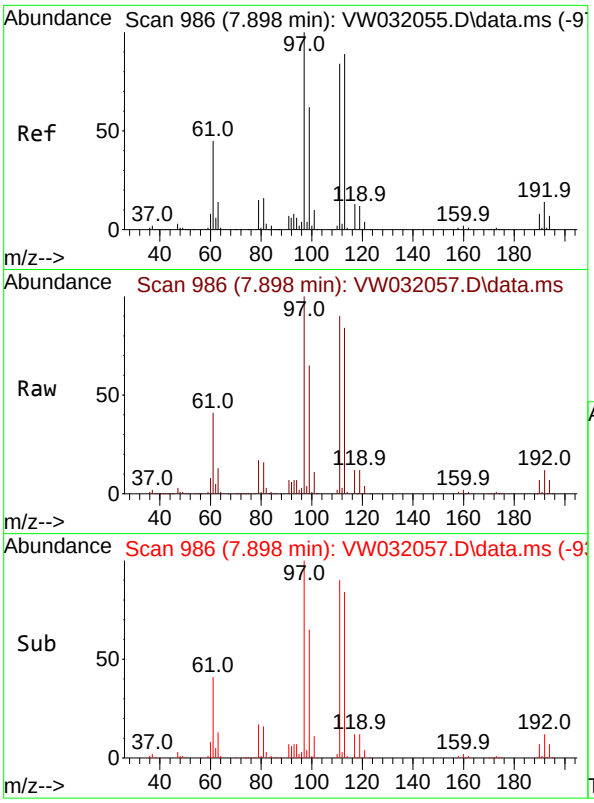


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:114 Resp: 422167

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.0
88	16.0	0.0	33.8

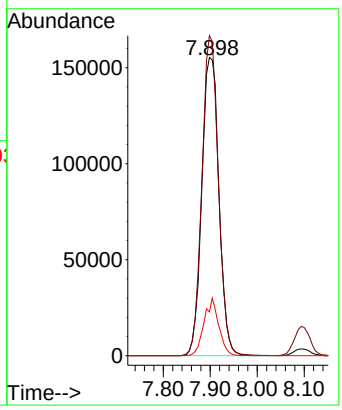




#35
Dibromofluoromethane
Concen: 144.207 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:113 Resp: 39330

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.1	120.1
192	16.5	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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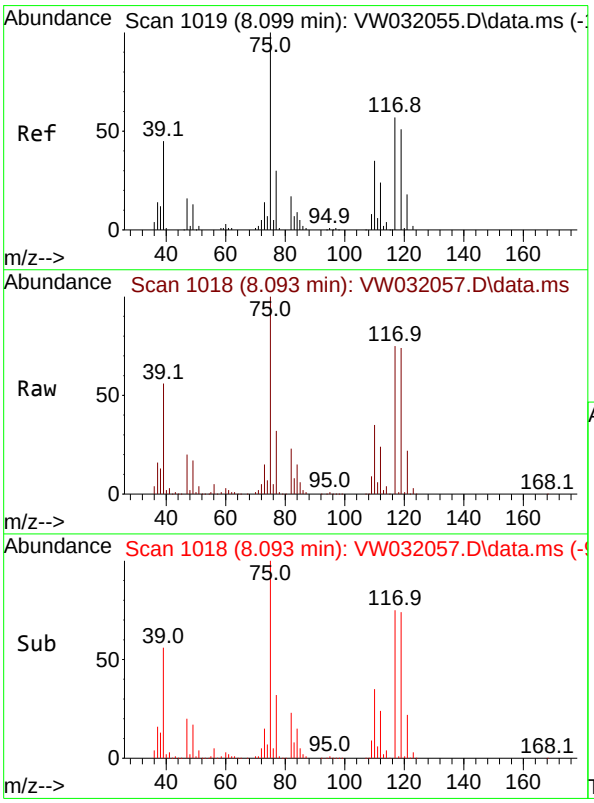
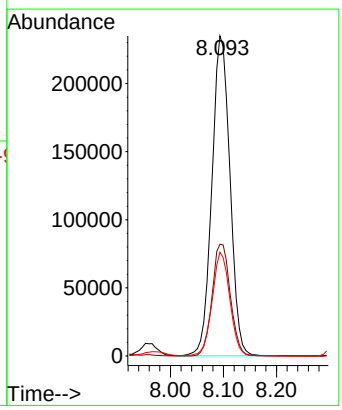
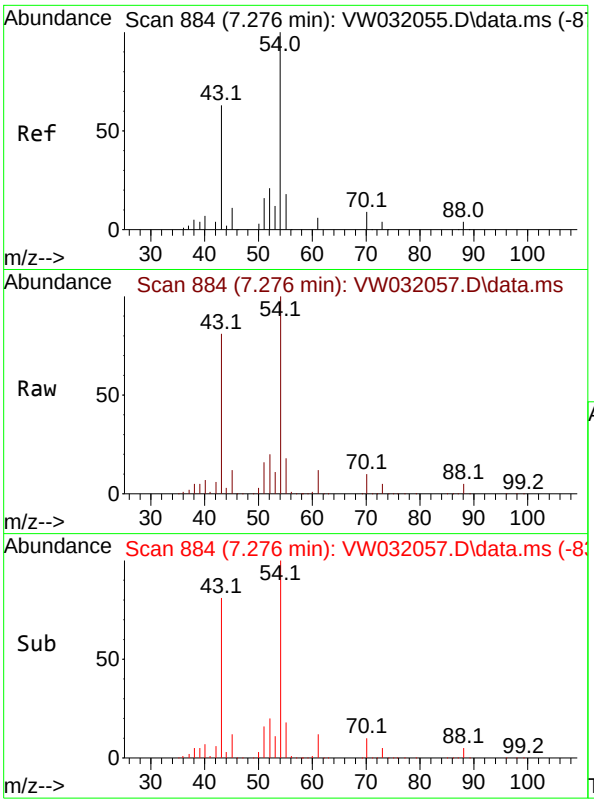


#36
1,1-Dichloropropene
Concen: 144.659 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 556189

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.4	52.2
77	31.7	24.7	37.1





#37
Ethyl Acetate
Concen: 154.109 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 34897

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.8	17.6
70	11.8	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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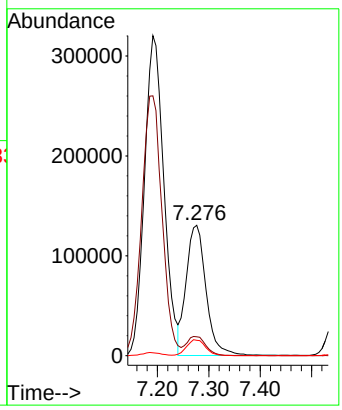
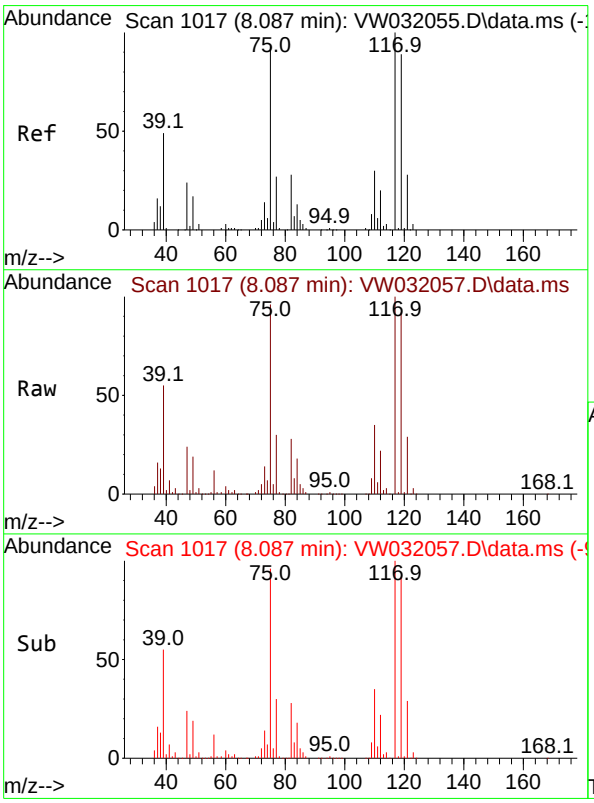
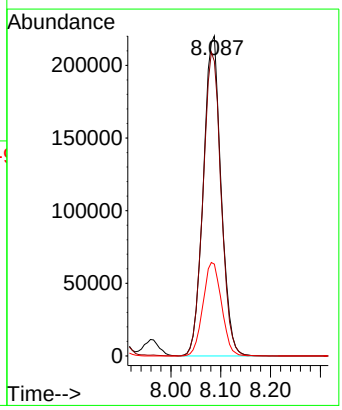


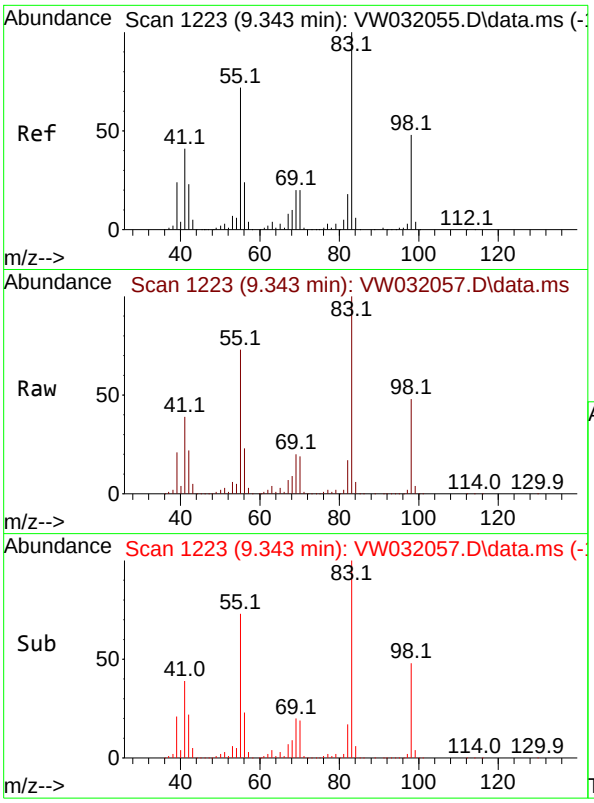


#38
Carbon Tetrachloride
Concen: 146.799 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 544688

Ion	Ratio	Lower	Upper
117	100		
119	92.1	71.4	107.2
121	28.7	22.3	33.5

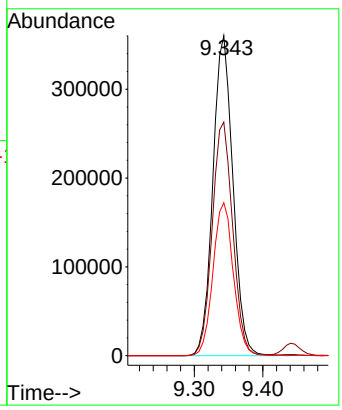




#39
Methylcyclohexane
Concen: 156.286 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 73241

Ion	Ratio	Lower	Upper
83	100		
55	73.0	57.9	86.9
98	47.8	38.3	57.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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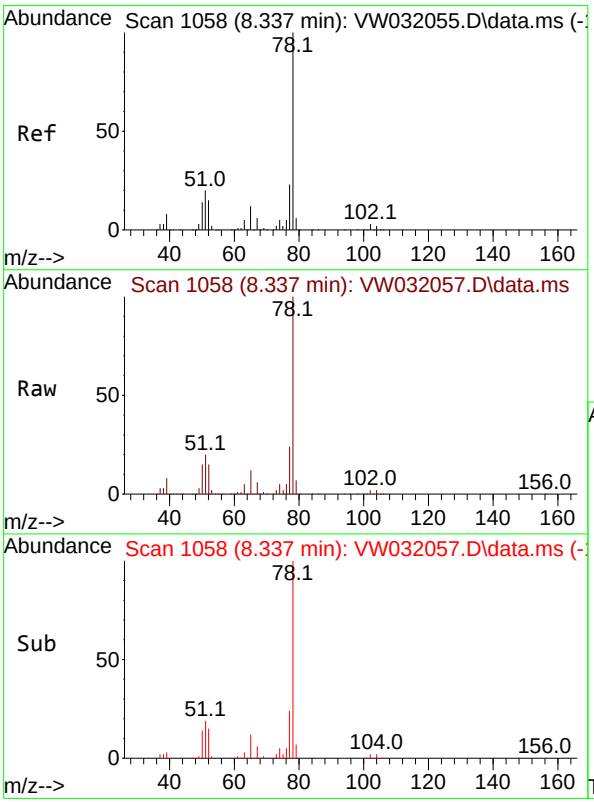
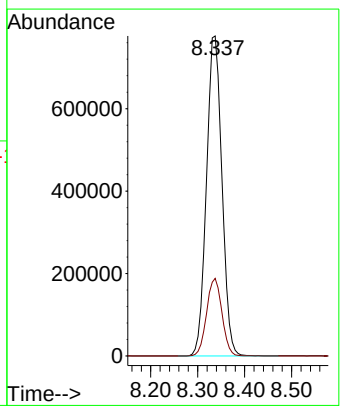
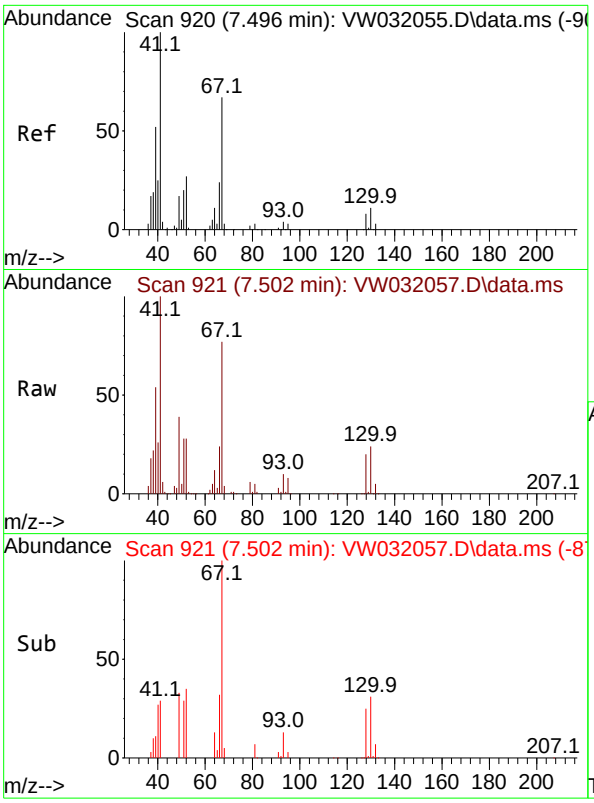


#40
Benzene
Concen: 148.159 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 78 Resp: 1770706

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.4	27.6

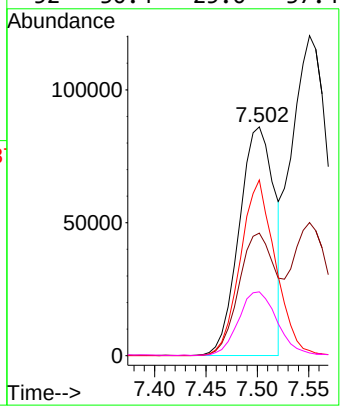




#41
Methacrylonitrile
Concen: 160.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 20572

Ion	Ratio	Lower	Upper
41	100		
39	58.7	42.6	63.8
67	76.7	61.0	91.4
52	30.4	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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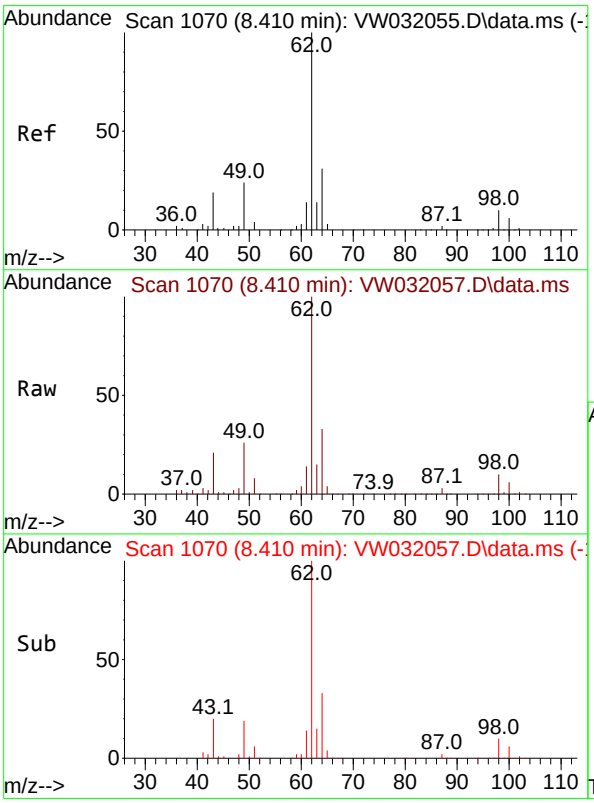
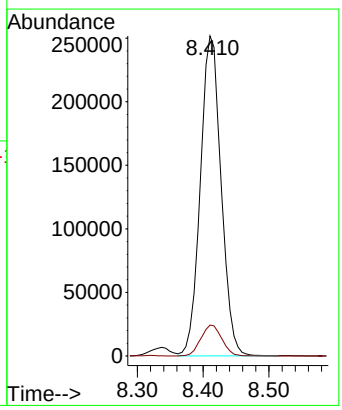
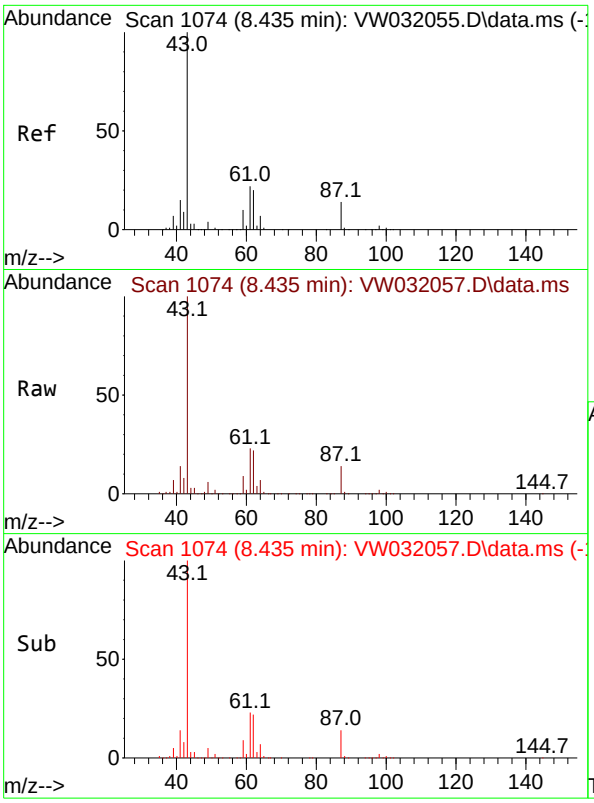


#42
1,2-Dichloroethane
Concen: 144.388 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 552184

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8





#43
Isopropyl Acetate
Concen: 159.788 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 66571

Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.8	35.8
87	14.5	11.7	17.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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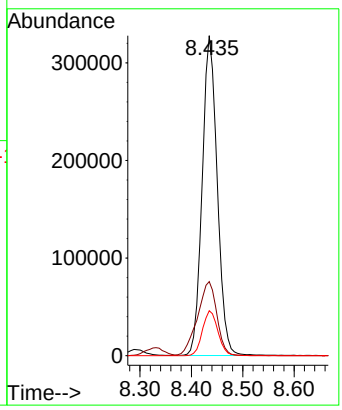
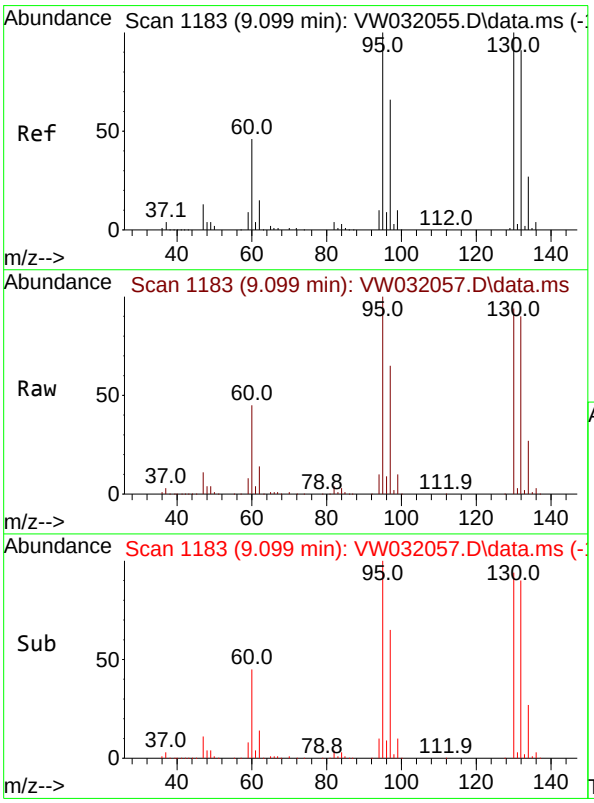
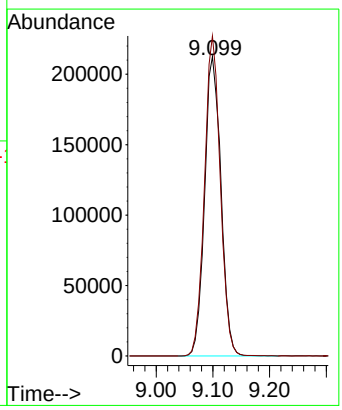


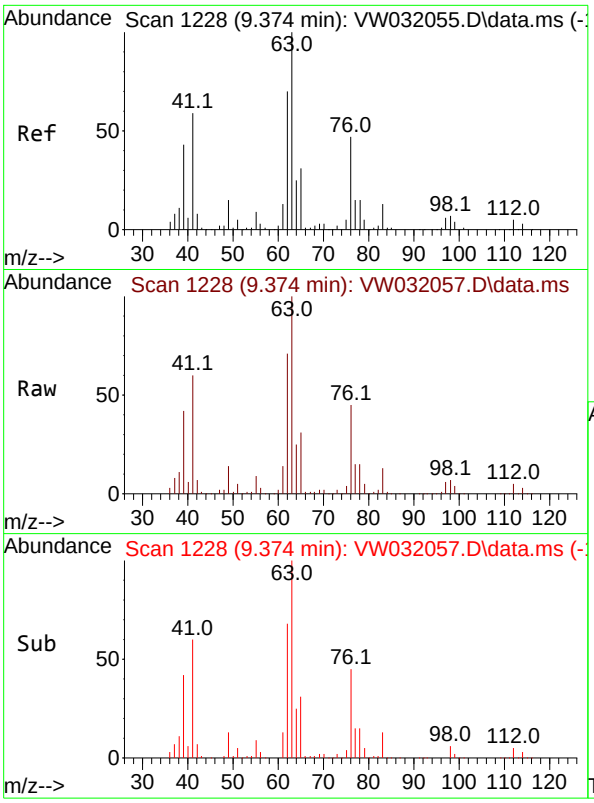


#44
Trichloroethene
Concen: 149.281 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:130 Resp: 424873

Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	200.6

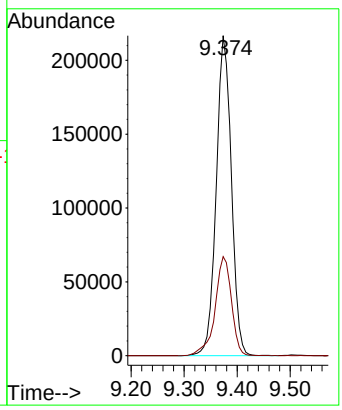




#45
1,2-Dichloropropane
Concen: 148.679 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 42928

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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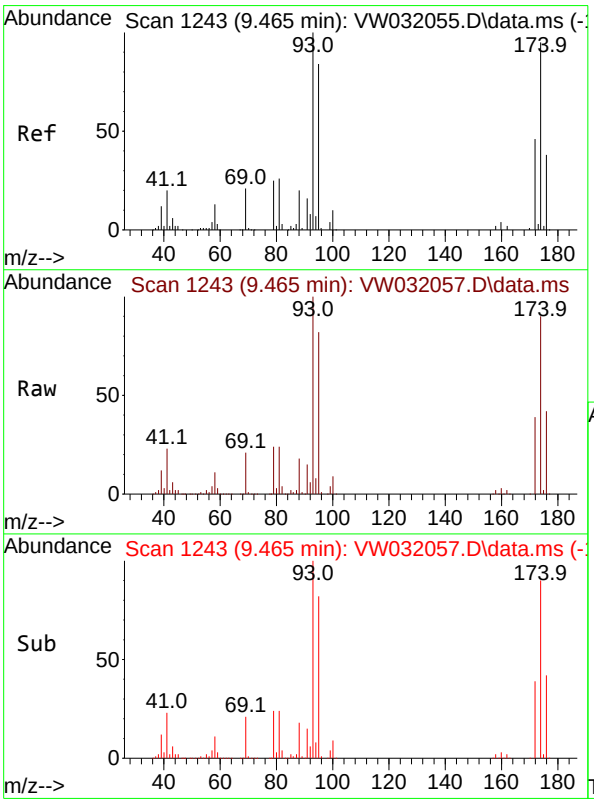
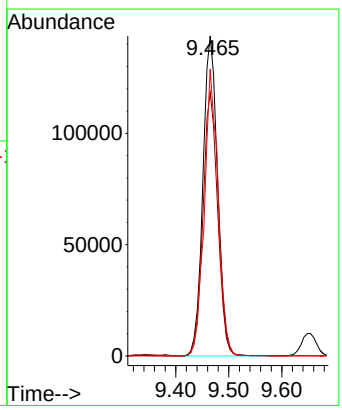
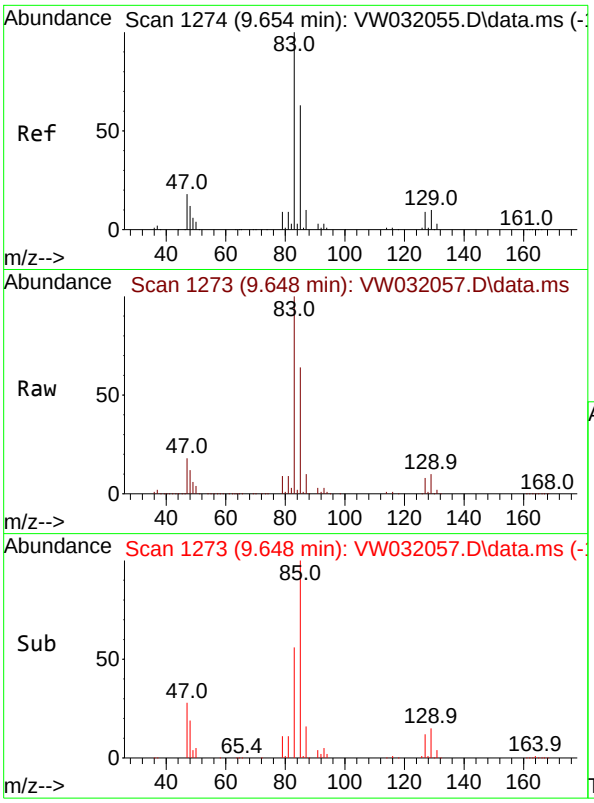


#46
Dibromomethane
Concen: 148.678 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 93 Resp: 277058

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.3	97.9
174	84.7	68.6	102.8

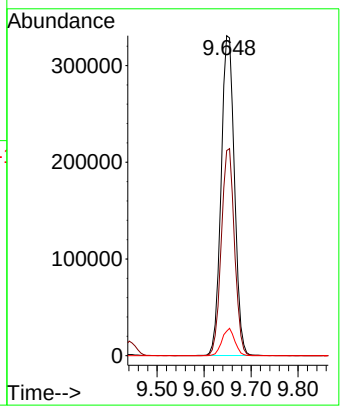




#47
Bromodichloromethane
Concen: 152.185 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 65347

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	75.8
127	7.7	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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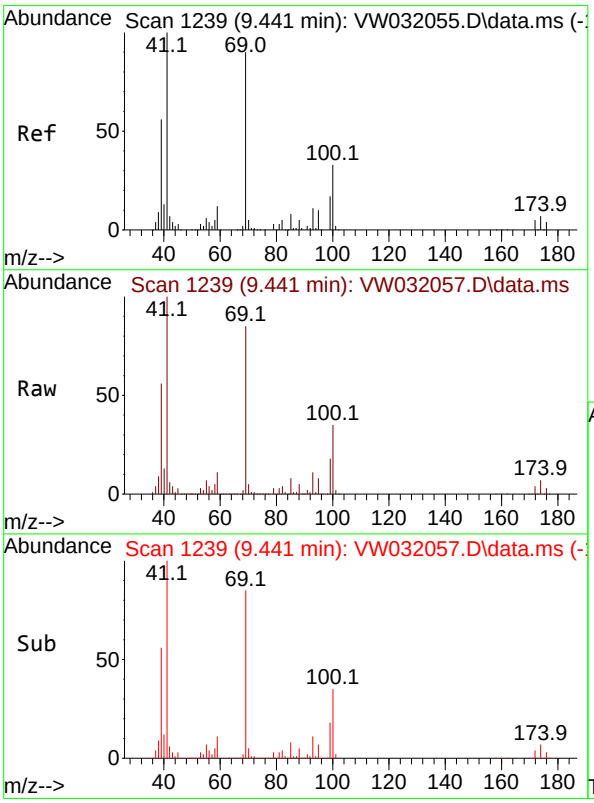
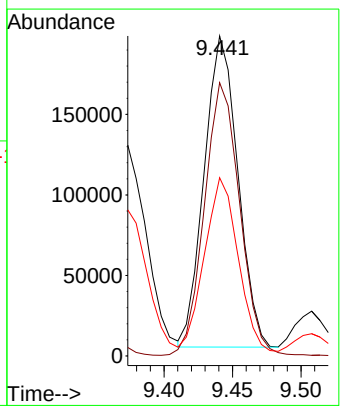
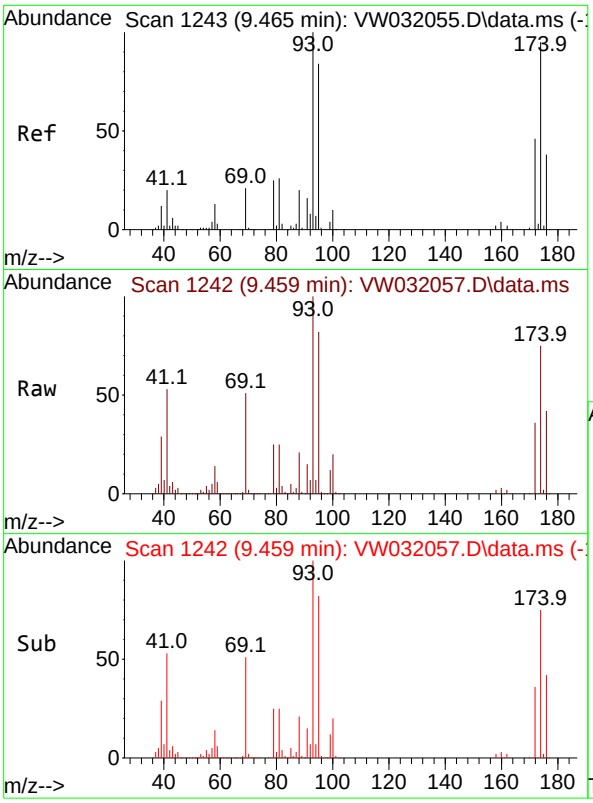


#48
Methyl methacrylate
Concen: 164.326 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 330511

Ion	Ratio	Lower	Upper
41	100		
69	92.4	73.0	109.6
39	55.2	45.0	67.4





#49
1,4-Dioxane
Concen: 3279.484 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 88 Resp: 7901

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	70.8	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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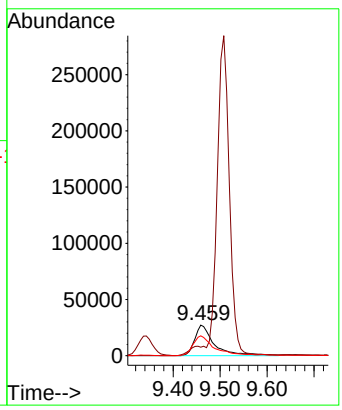
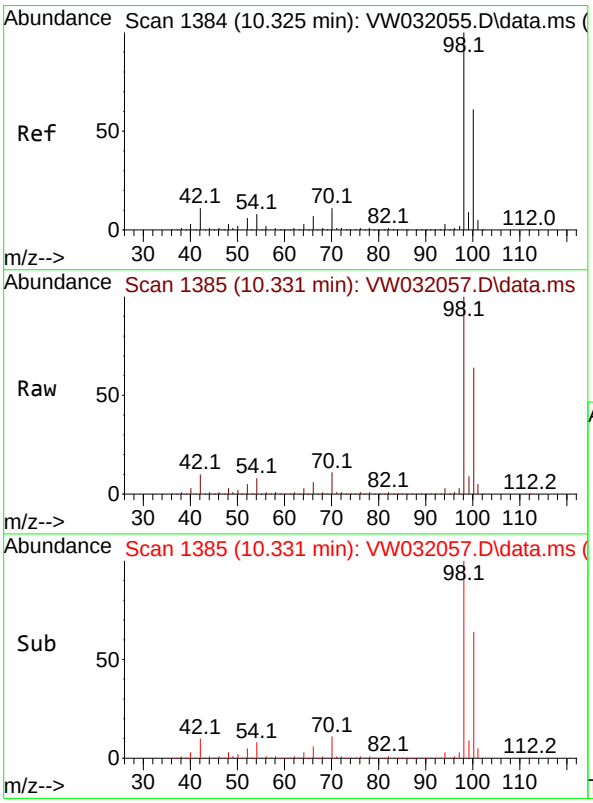
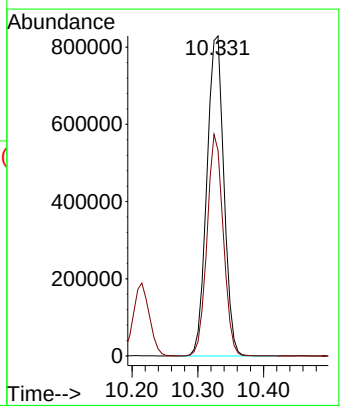


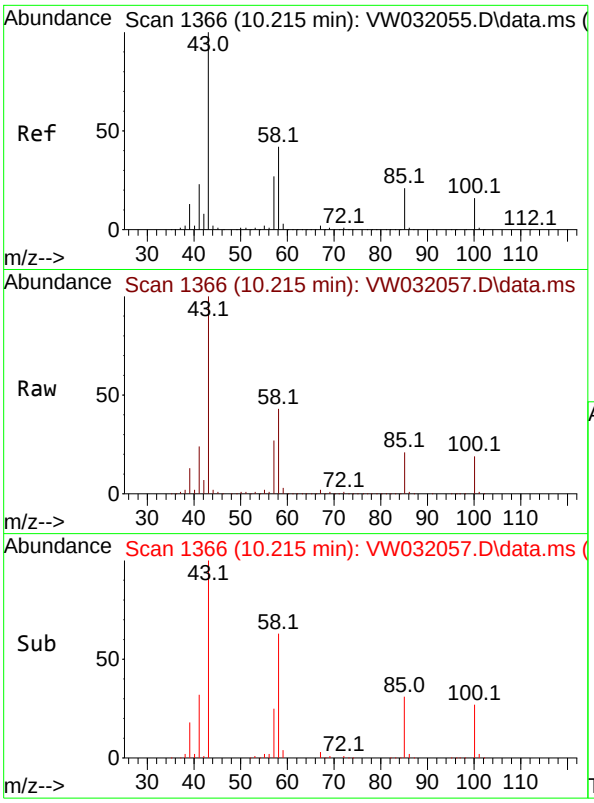


#50
Toluene-d8
Concen: 147.908 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 98 Resp: 1492050

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 772.800 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 181727

Ion	Ratio	Lower	Upper
43	100		
58	42.0	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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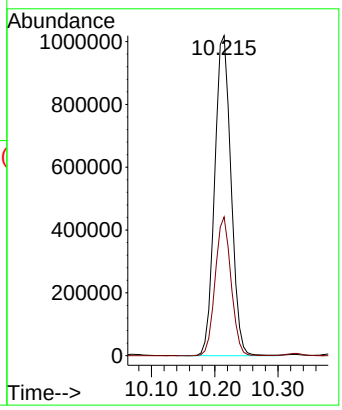
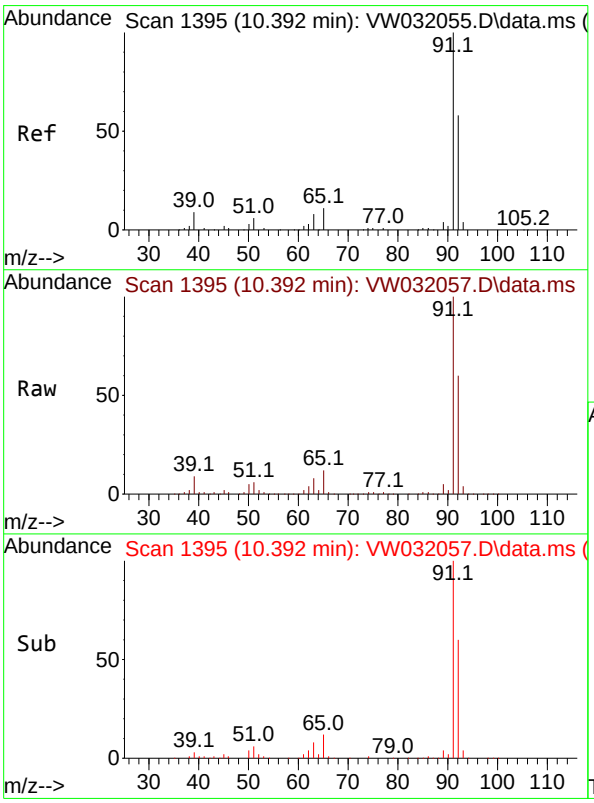
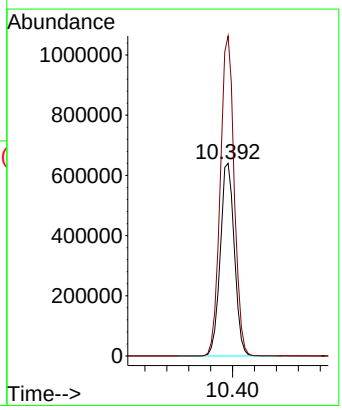


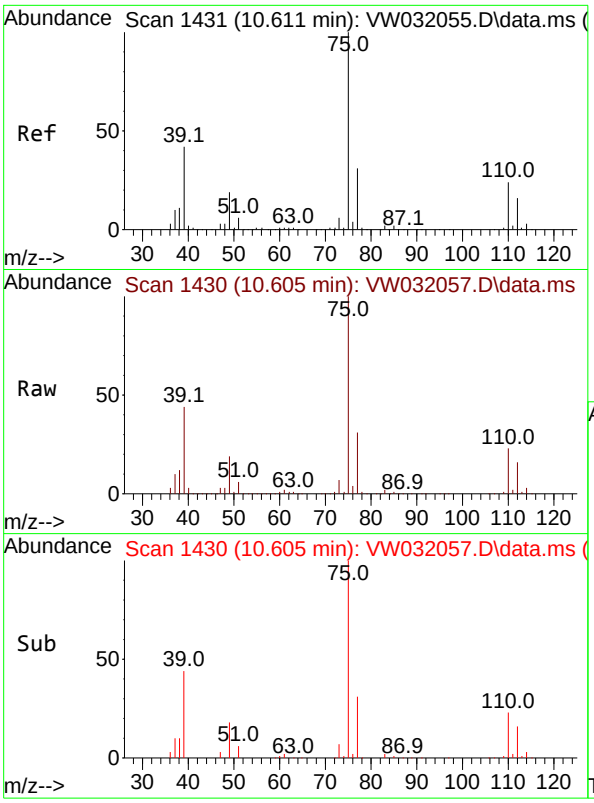


#52
Toluene
Concen: 151.812 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 92 Resp: 1142813

Ion	Ratio	Lower	Upper
92	100		
91	164.7	136.3	204.5

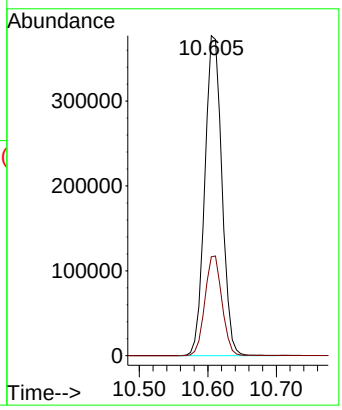




#53
t-1,3-Dichloropropene
Concen: 162.760 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 65476

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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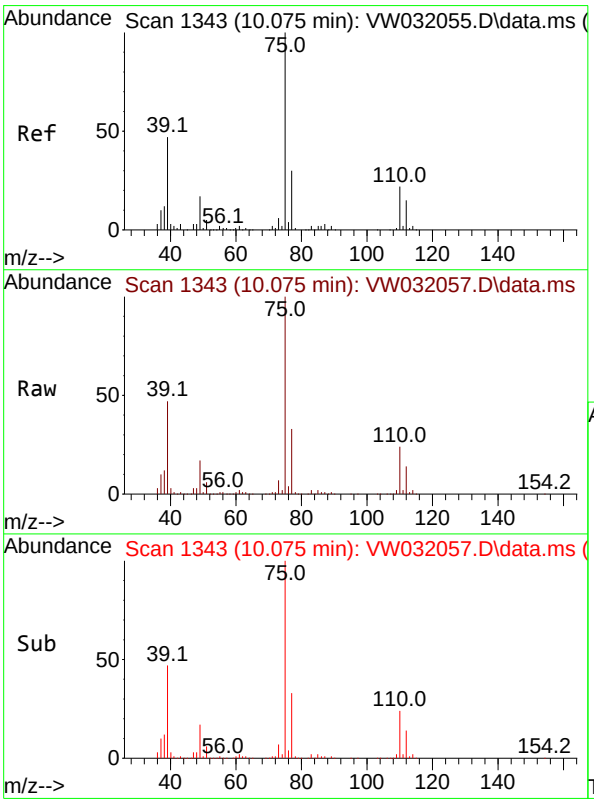
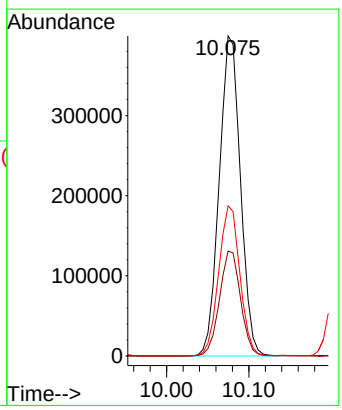
Supervised By :Semsettin Yesilyurt 08/12/2025

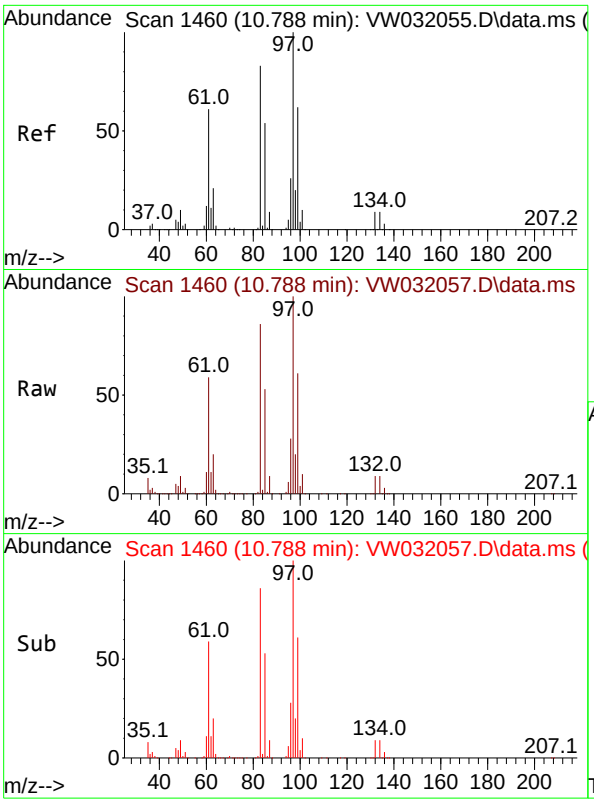


#54
cis-1,3-Dichloropropene
Concen: 157.011 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 716583

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.0	36.0
39	46.9	37.8	56.8

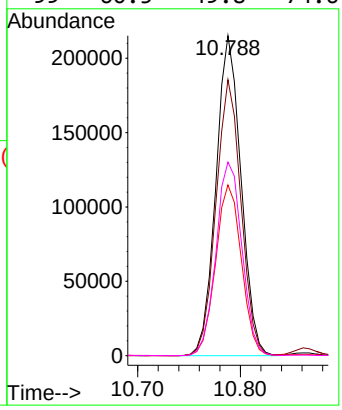




#55
1,1,2-Trichloroethane
Concen: 147.271 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 97 Resp: 36468

Ion	Ratio	Lower	Upper
97	100		
83	86.3	66.4	99.6
85	53.3	43.1	64.7
99	60.5	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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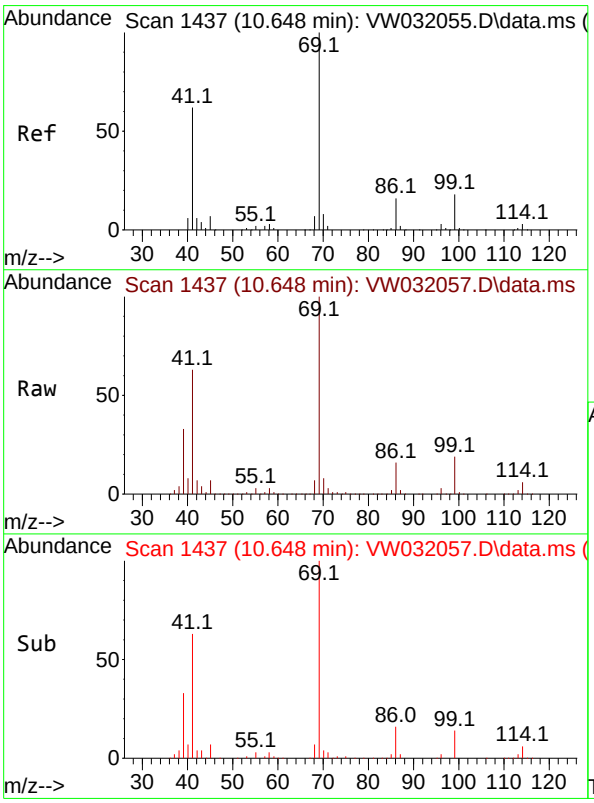
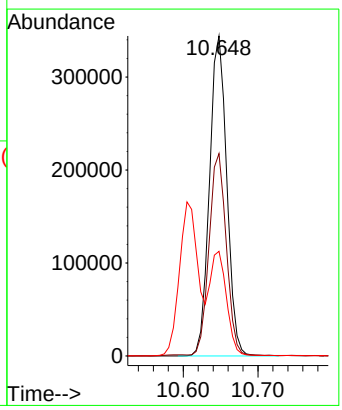
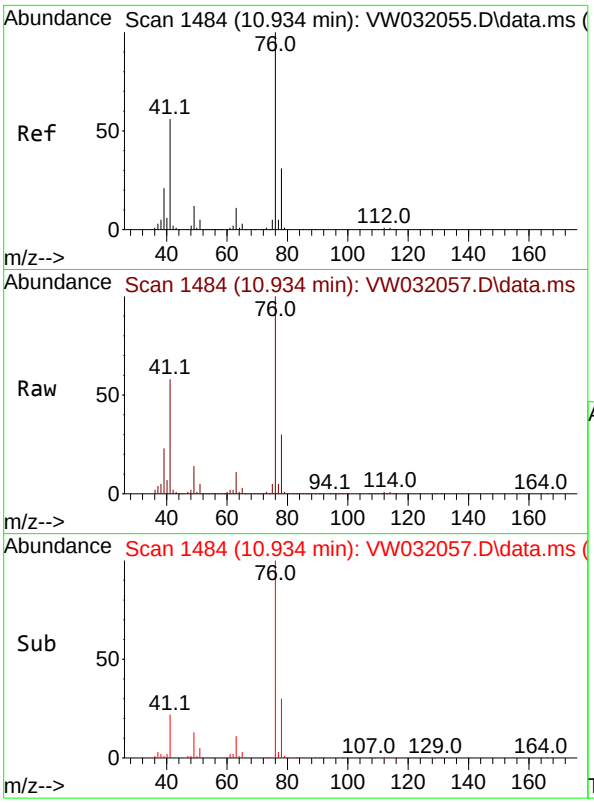


#56
Ethyl methacrylate
Concen: 166.963 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 69 Resp: 553265

Ion	Ratio	Lower	Upper
69	100		
41	62.9	51.2	76.8
39	30.8	25.4	38.0





#57
1,3-Dichloropropane
Concen: 149.298 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 76 Resp: 64441

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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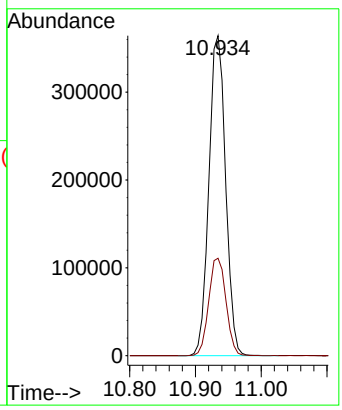
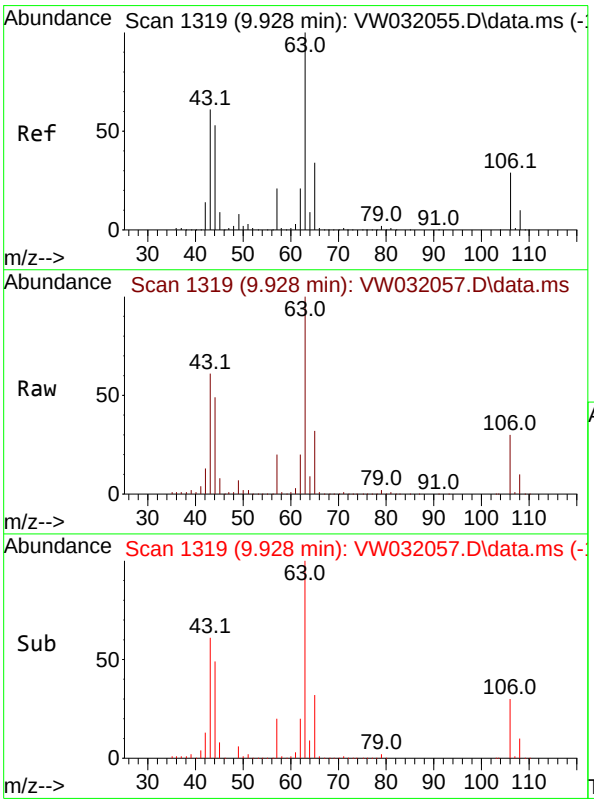
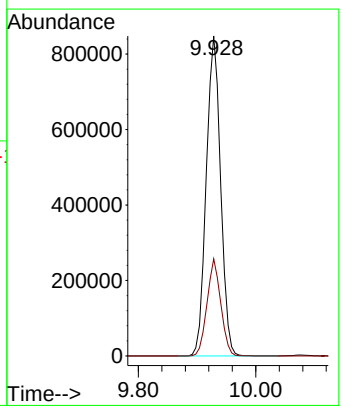


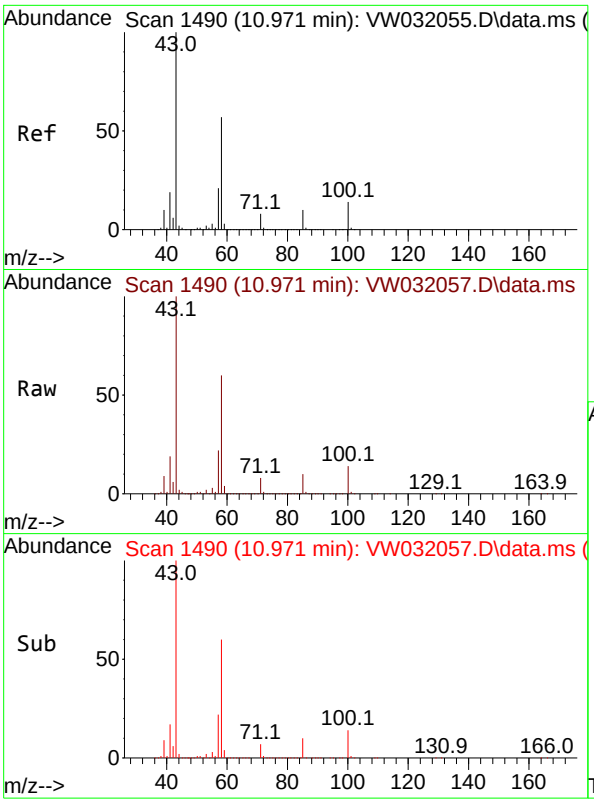


#58
2-Chloroethyl Vinyl ether
Concen: 784.377 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 1437682

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3





#59
2-Hexanone
Concen: 785.288 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 127891

Ion	Ratio	Lower	Upper
43	100		
58	58.3	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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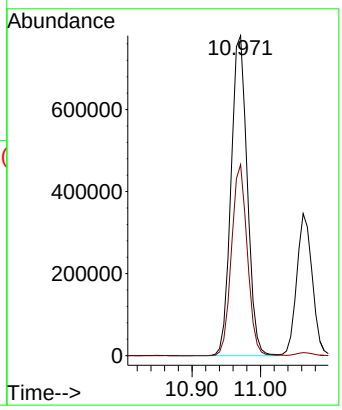
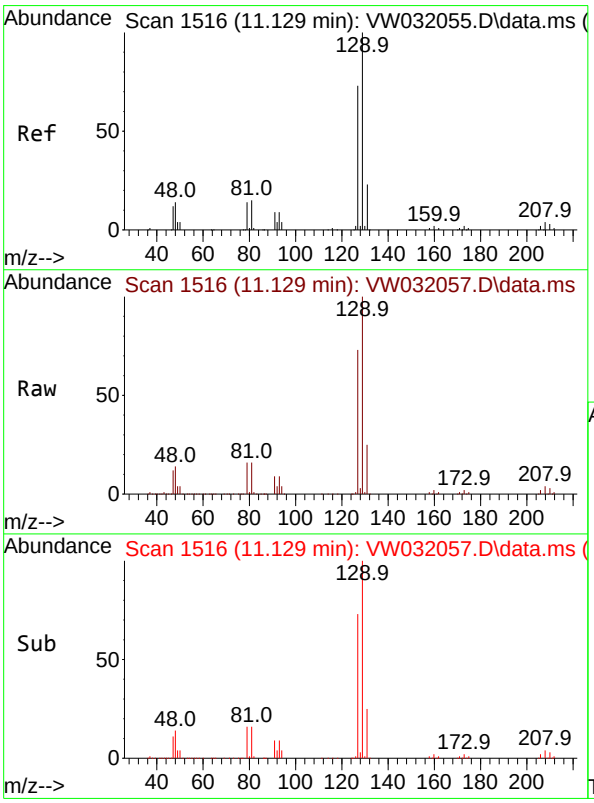
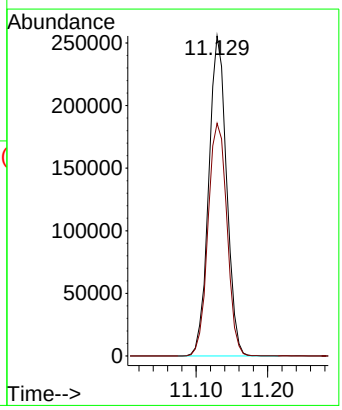


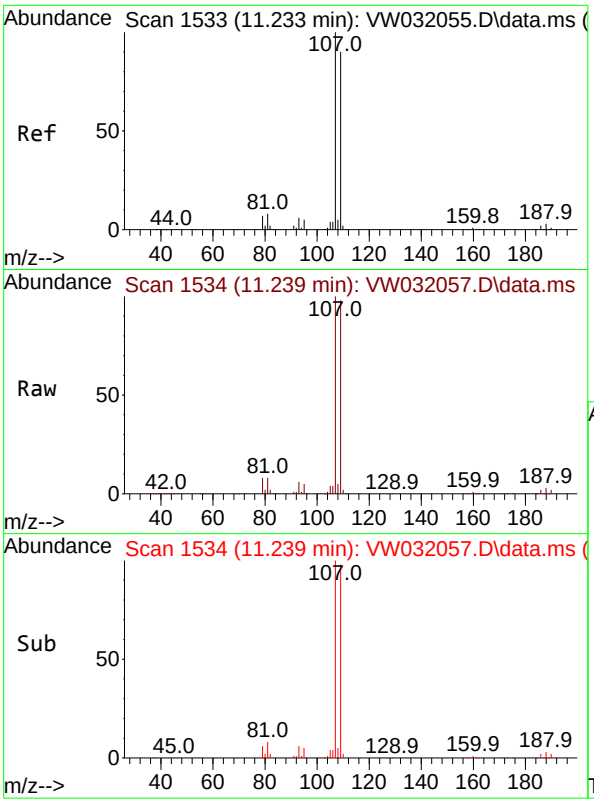


#60
Dibromochloromethane
Concen: 156.387 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:129 Resp: 442362

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.0	116.9

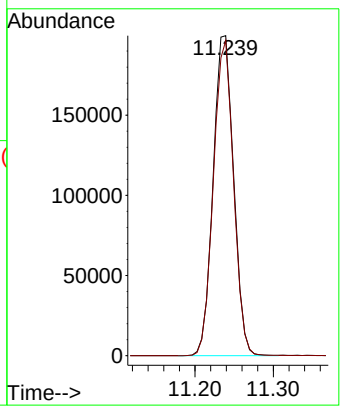




#61
1,2-Dibromoethane
Concen: 150.929 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:107 Resp: 36319

Ion	Ratio	Lower	Upper
107	100		
109	96.5	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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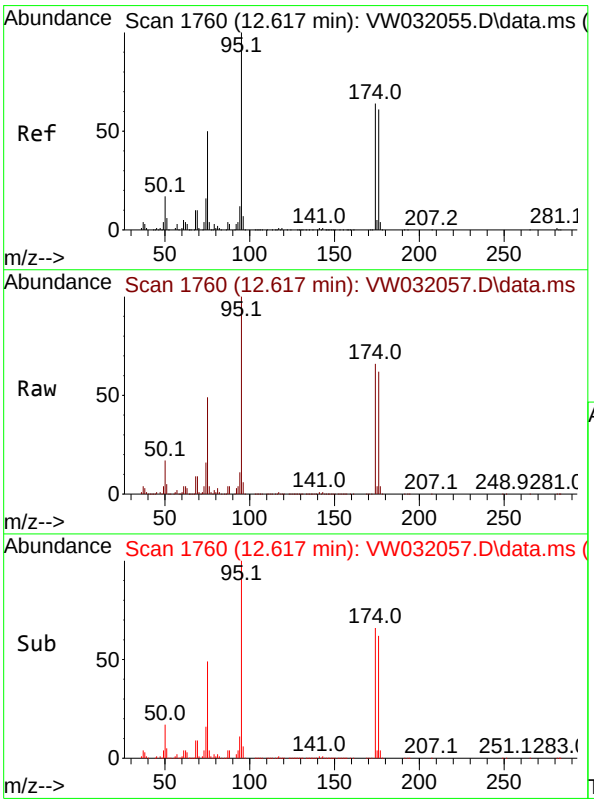
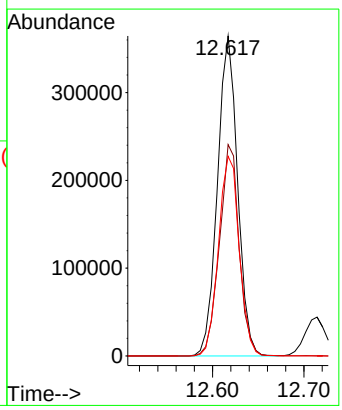
Supervised By :Semsettin Yesilyurt 08/12/2025

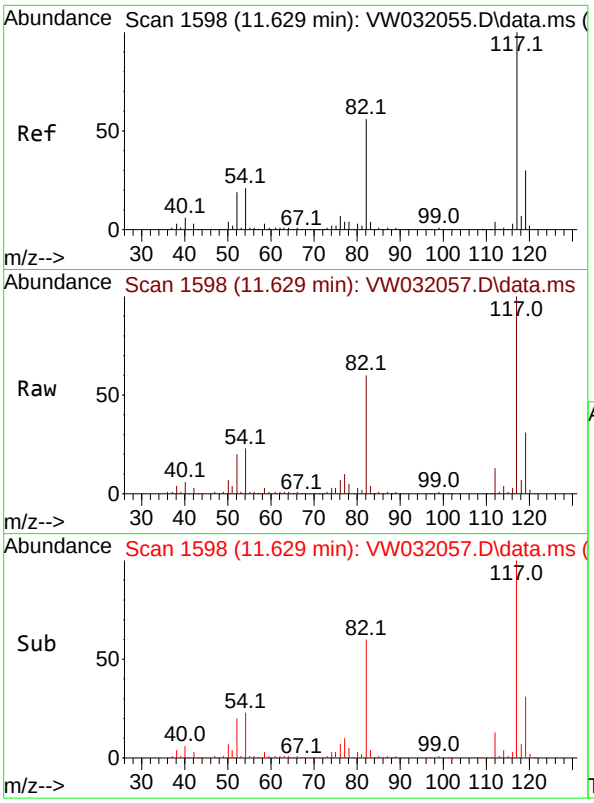


#62
4-Bromofluorobenzene
Concen: 150.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 95 Resp: 558308

Ion	Ratio	Lower	Upper
95	100		
174	64.8	0.0	129.0
176	64.5	0.0	124.6

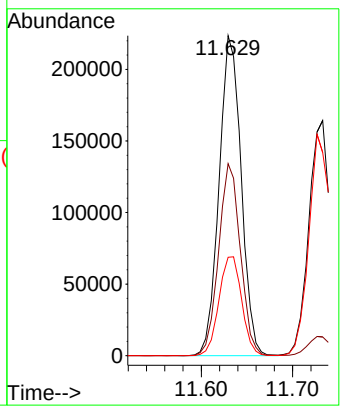




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 37527

Ion	Ratio	Lower	Upper
117	100		
82	59.9	45.0	67.4
119	30.8	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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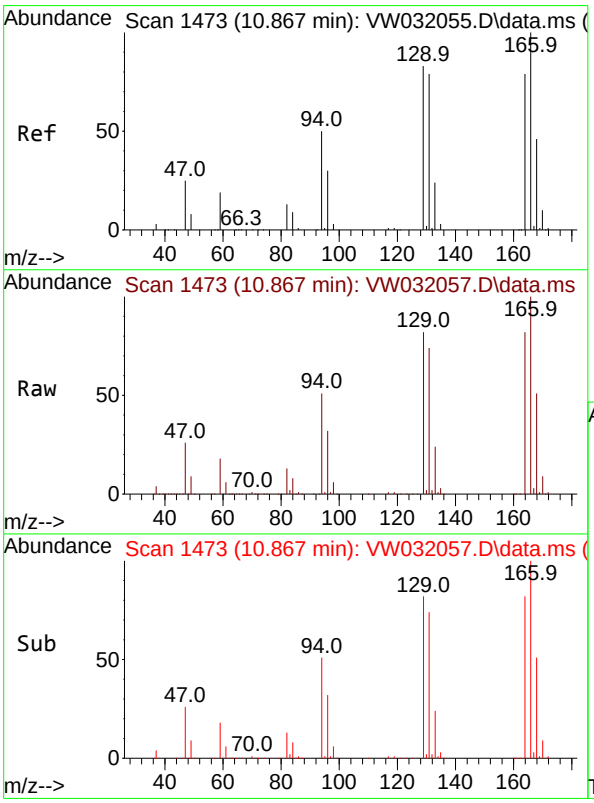
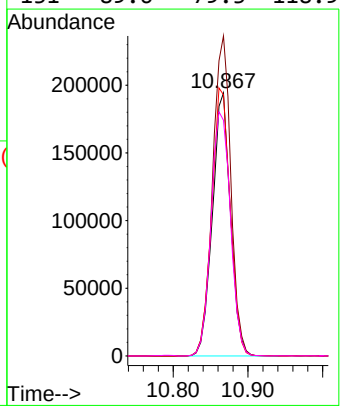
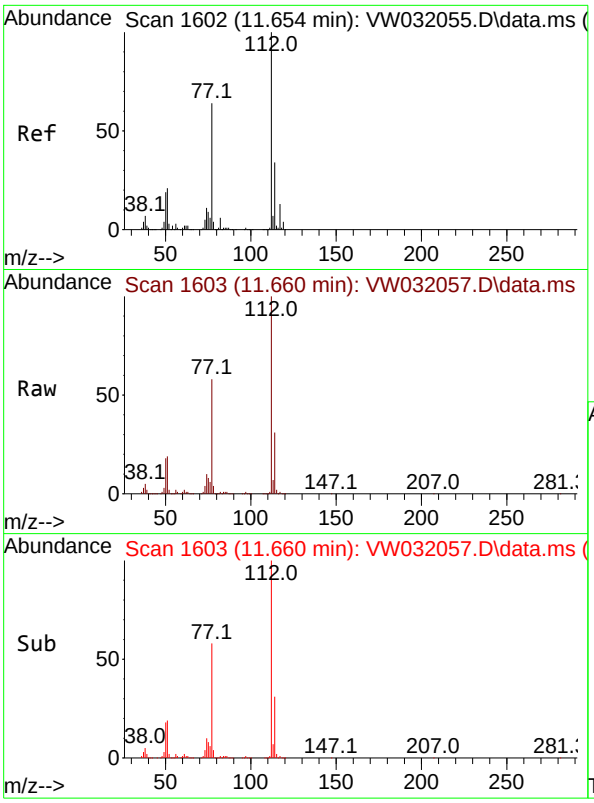


#64
Tetrachloroethene
Concen: 150.622 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:164 Resp: 326491

Ion	Ratio	Lower	Upper
164	100		
166	121.6	100.9	151.3
129	99.3	83.6	125.4
131	89.6	79.3	118.9

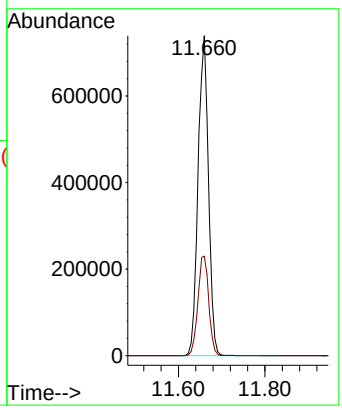




#65
Chlorobenzene
Concen: 150.609 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:112 Resp: 123024

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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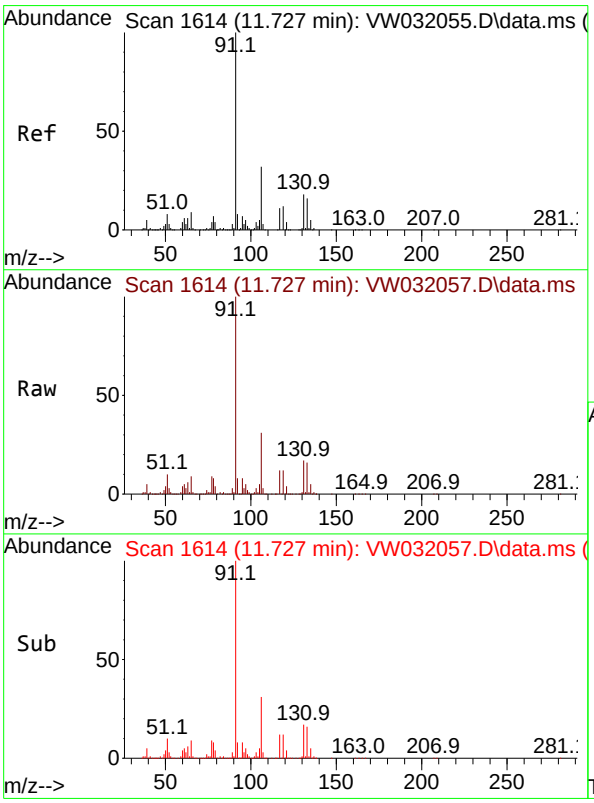
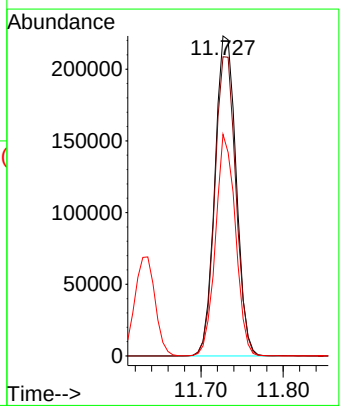
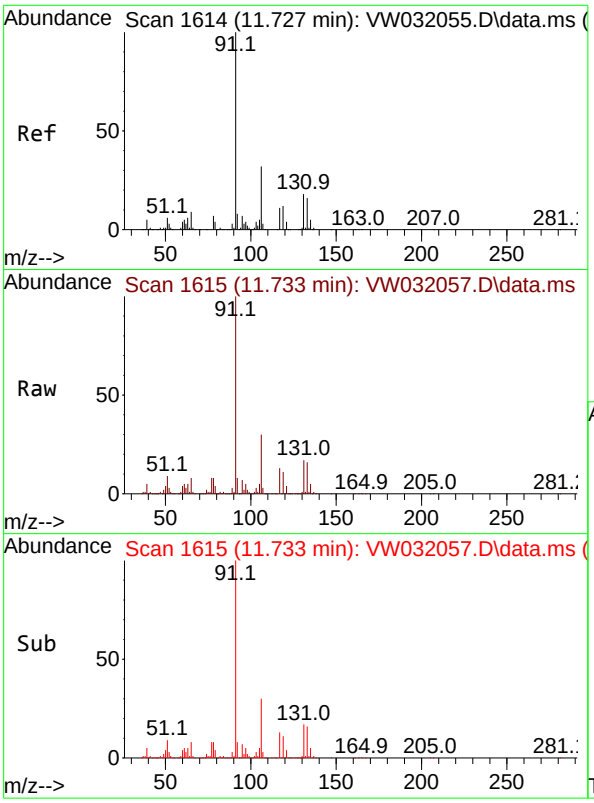


#66
1,1,1,2-Tetrachloroethane
Concen: 157.017 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:131 Resp: 400167

Ion	Ratio	Lower	Upper
131	100		
133	93.2	47.3	142.0
119	65.0	34.5	103.5

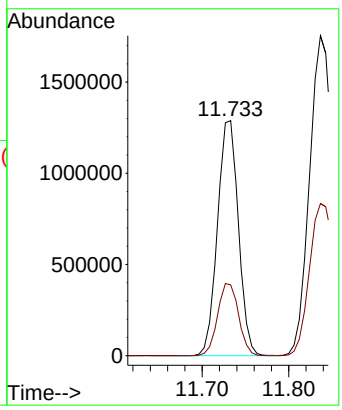




#67
Ethyl Benzene
Concen: 156.328 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 216298

Ion	Ratio	Lower	Upper
91	100		
106	30.1	25.4	38.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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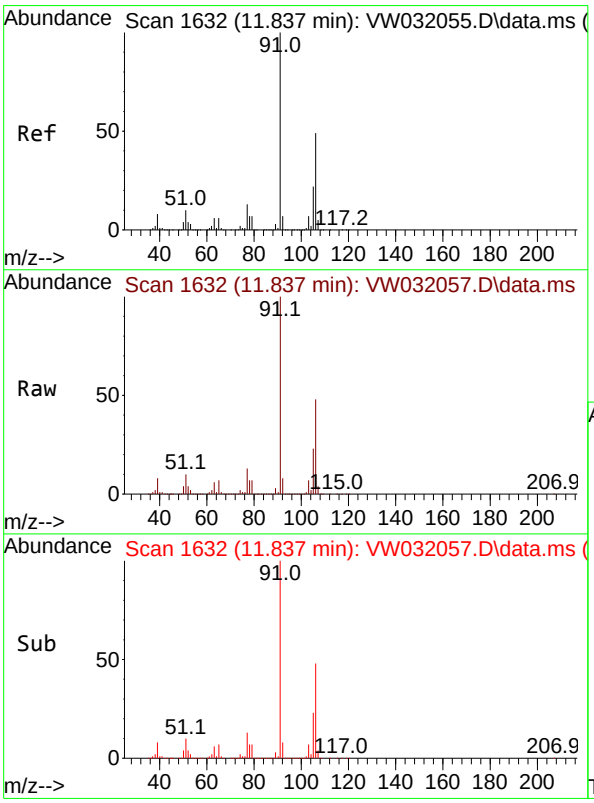
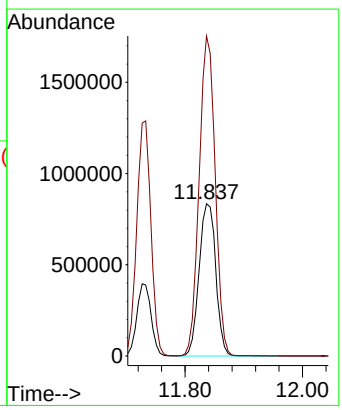
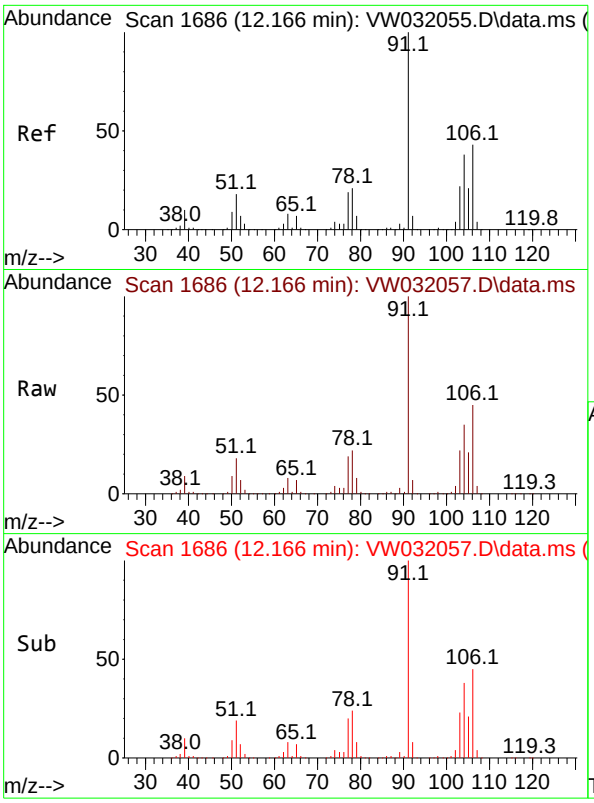


#68
m/p-Xylenes
Concen: 307.801 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 1643338

Ion	Ratio	Lower	Upper
106	100		
91	203.0	162.2	243.2

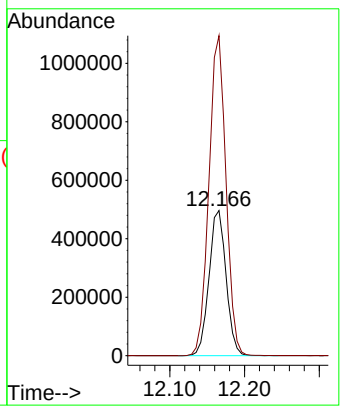




#69
o-Xylene
Concen: 159.450 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 78683

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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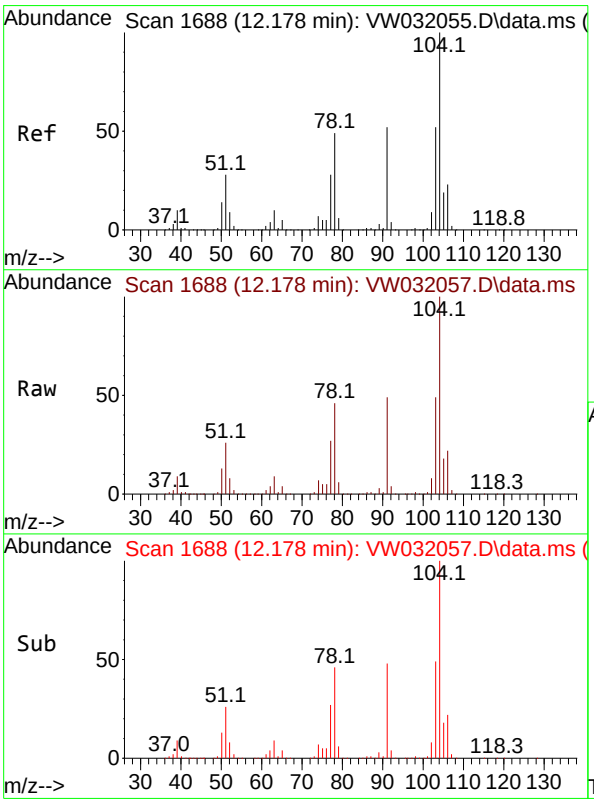
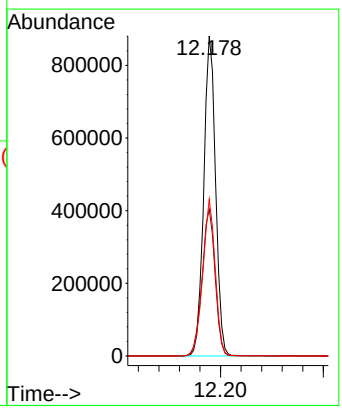
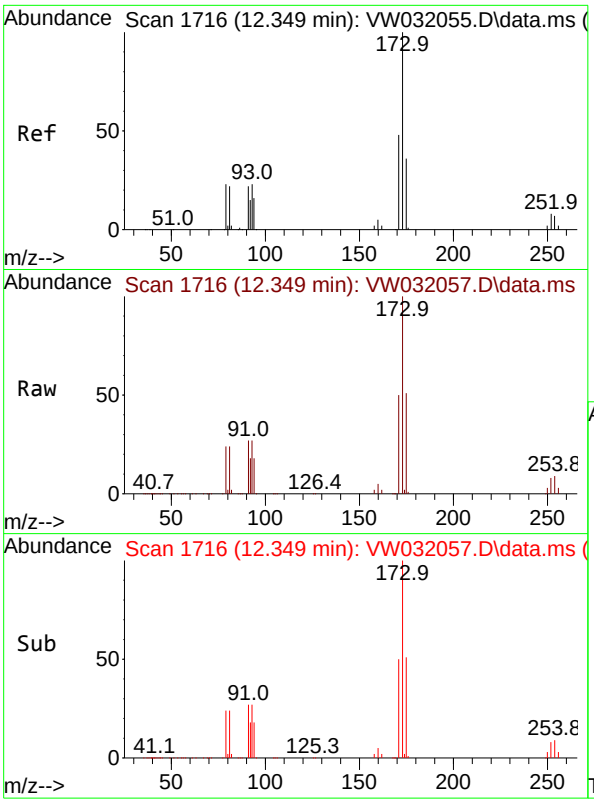


#70
Styrene
Concen: 160.482 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:104 Resp: 1406640

Ion	Ratio	Lower	Upper
104	100		
78	50.4	41.2	61.8
103	51.7	43.8	65.8

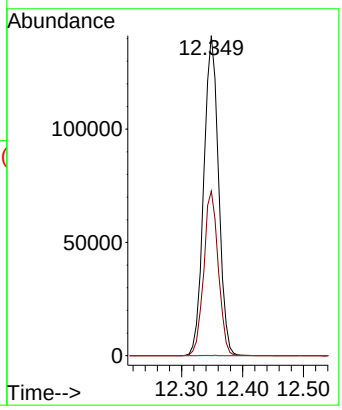




#71
Bromoform
Concen: 163.720 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:173 Resp: 23867

Ion	Ratio	Lower	Upper
173	100		
175	50.4	22.9	68.7
254	0.1	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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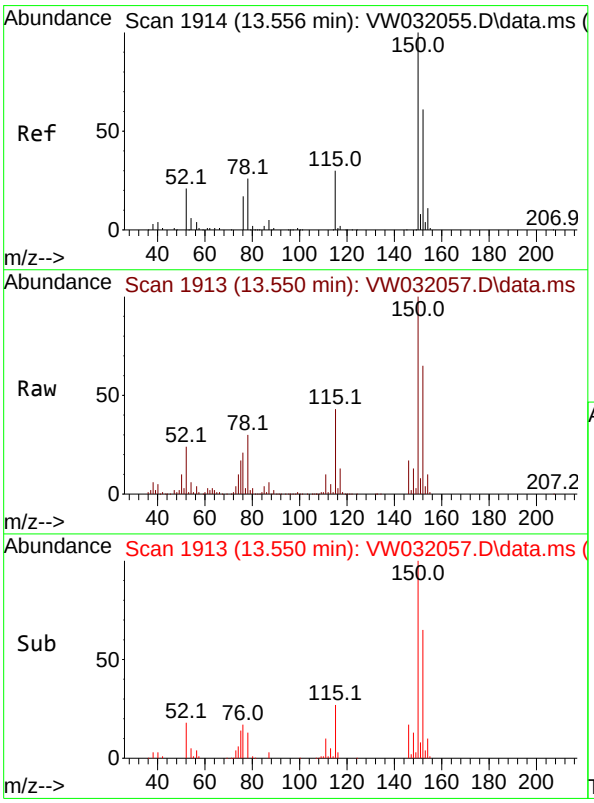
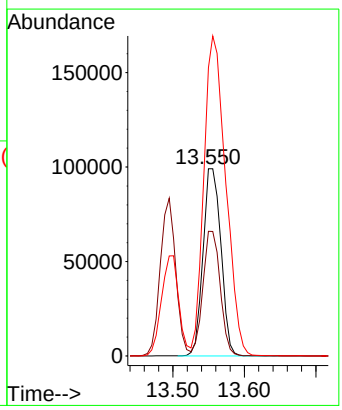
Supervised By :Semsettin Yesilyurt 08/12/2025

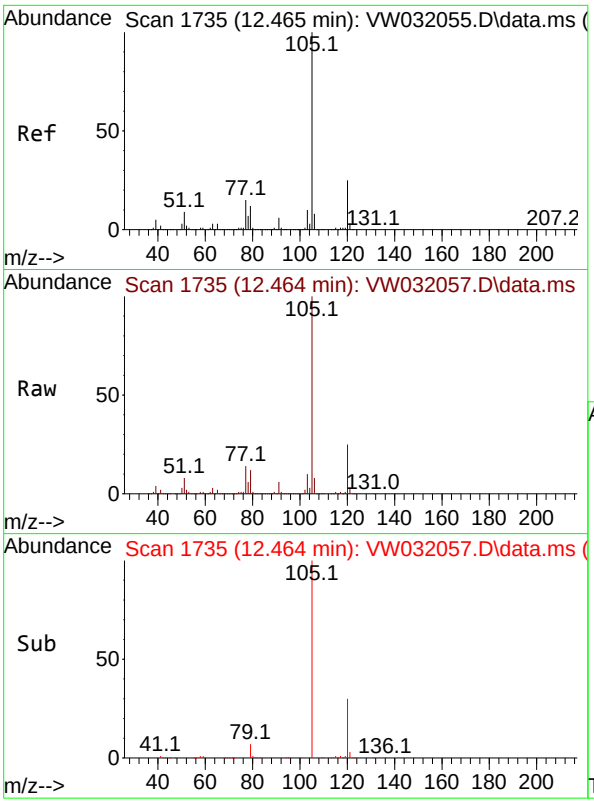


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:152 Resp: 172321

Ion	Ratio	Lower	Upper
152	100		
115	64.2	32.6	97.8
150	208.3	0.0	359.4

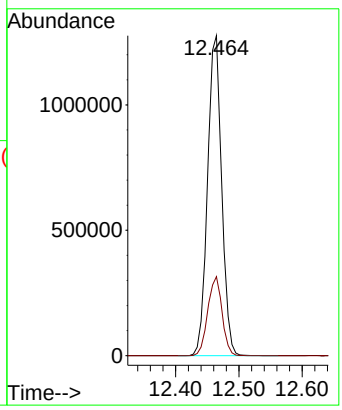




#73
Isopropylbenzene
Concen: 164.188 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 197728

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4



Instrument :
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ClientSampleId :
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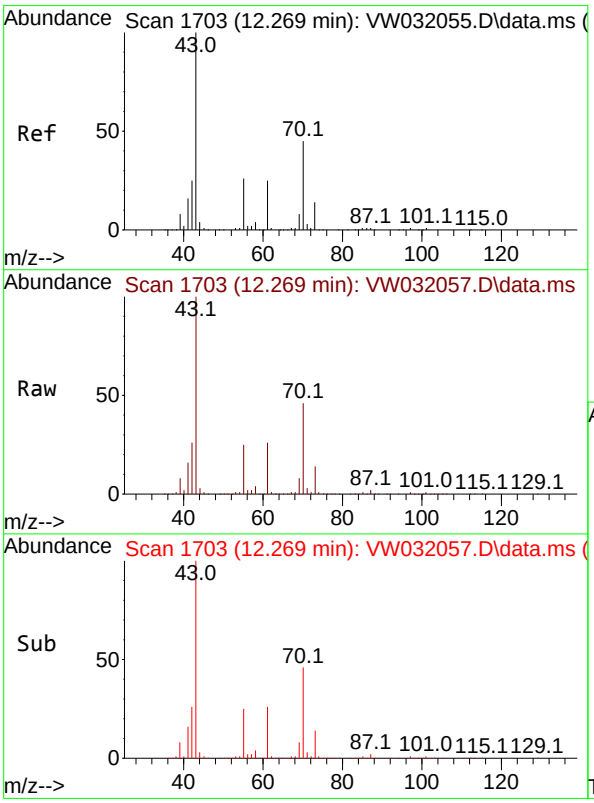
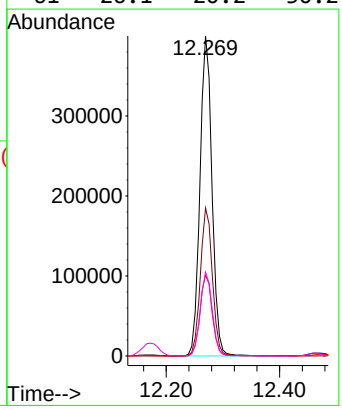
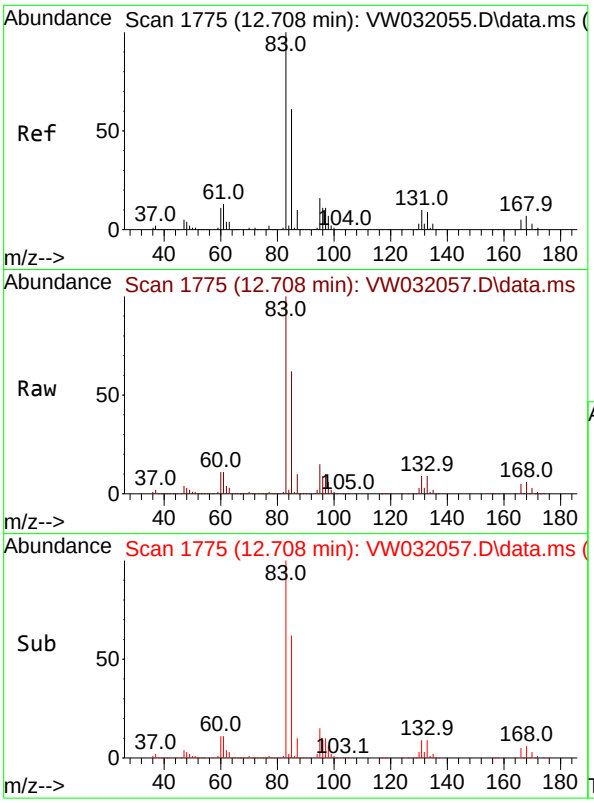


#74
N-amyl acetate
Concen: 170.556 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 589285

Ion	Ratio	Lower	Upper
43	100		
70	46.3	37.0	55.4
55	25.7	21.1	31.7
61	26.1	20.2	30.2





#75
1,1,2,2-Tetrachloroethane
Concen: 157.276 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 44970

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.1	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
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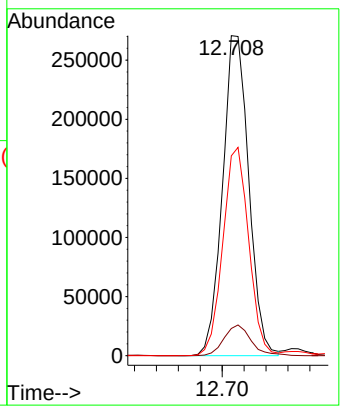
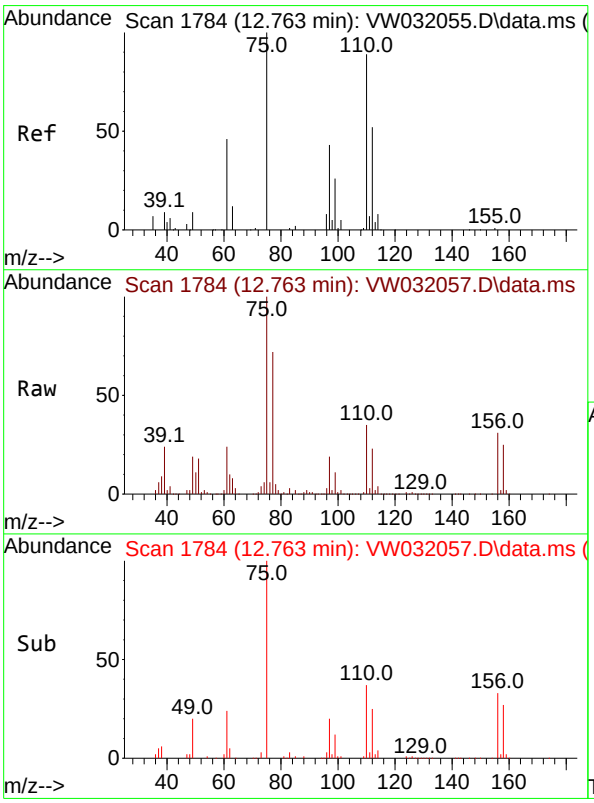
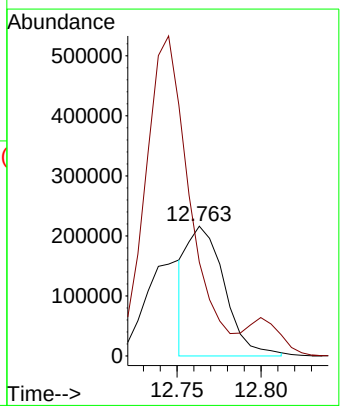


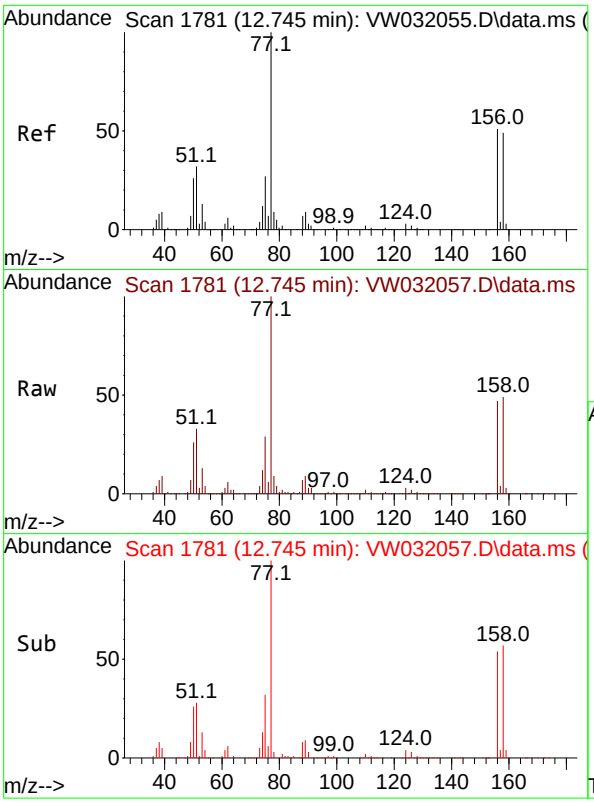


#76
1,2,3-Trichloropropane
Concen: 126.378 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 334775

Ion	Ratio	Lower	Upper
75	100		
77	290.3	123.5	370.5

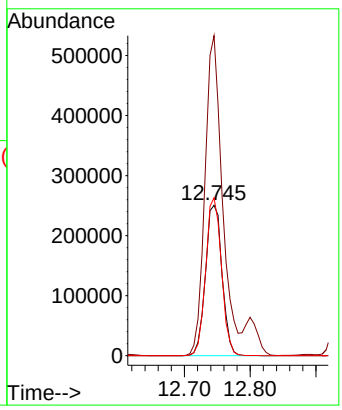




#77
Bromobenzene
Concen: 153.167 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:156 Resp: 44055

Ion	Ratio	Lower	Upper
156	100		
77	220.6	108.7	326.3
158	99.9	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
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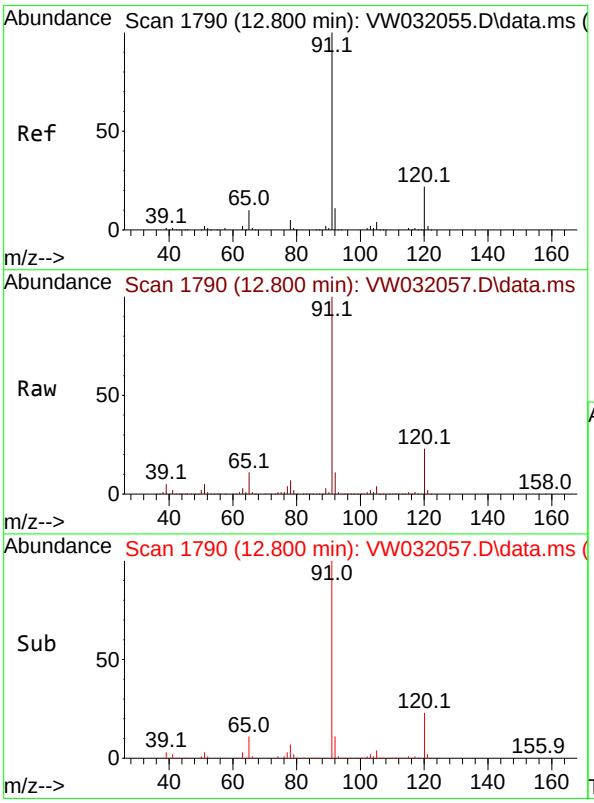
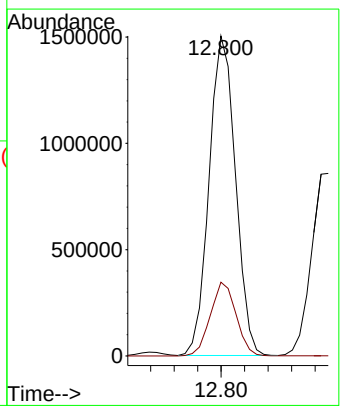
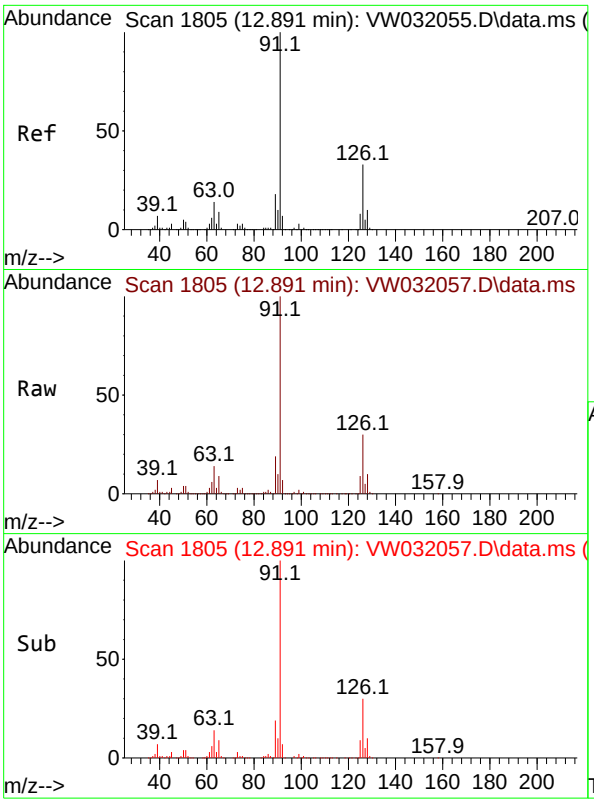


#78
n-propylbenzene
Concen: 158.253 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 2346333

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3

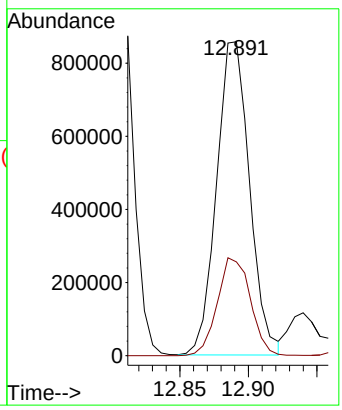




#79
2-Chlorotoluene
Concen: 156.820 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 143498

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.9	47.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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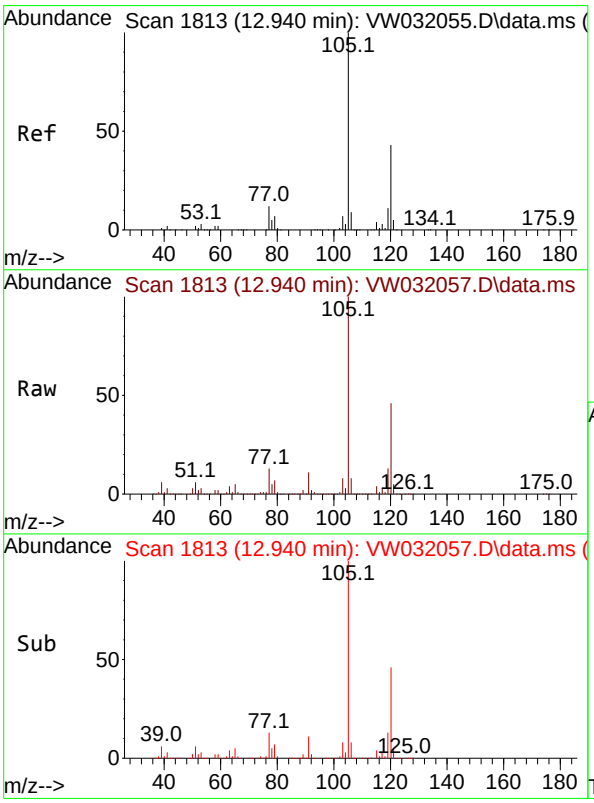
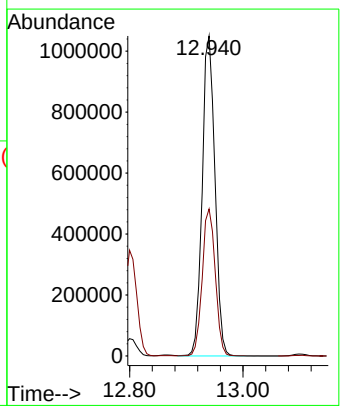
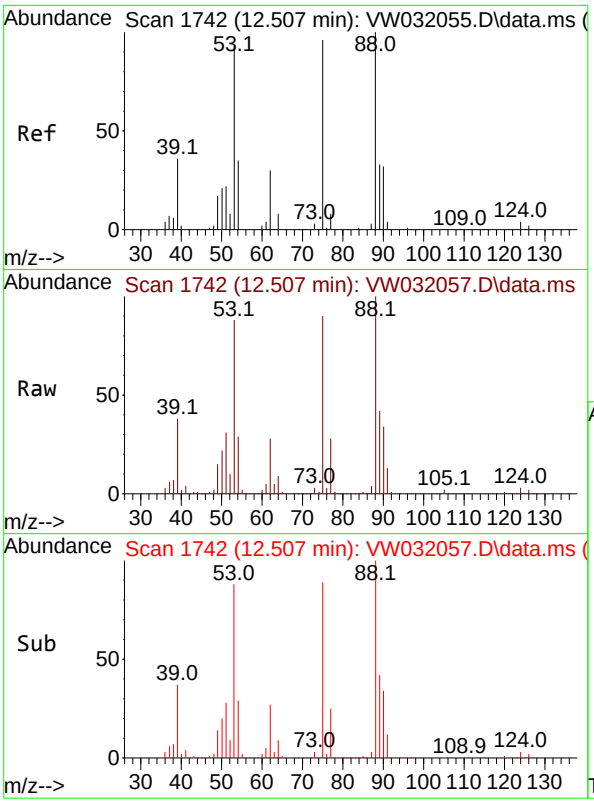


#80
1,3,5-Trimethylbenzene
Concen: 160.368 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1639597

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 174.499 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 15764

Ion	Ratio	Lower	Upper
75	100		
53	95.9	81.0	121.6
89	47.5	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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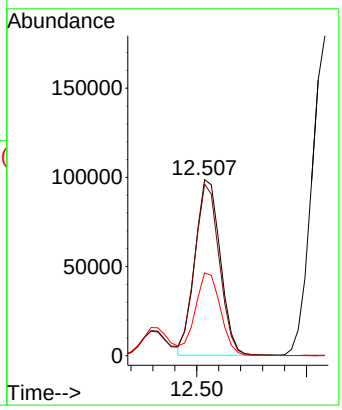
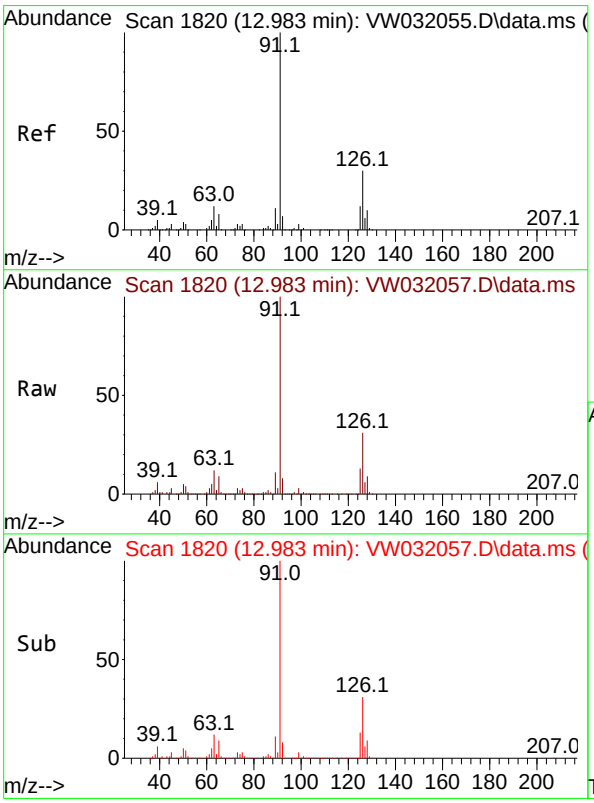
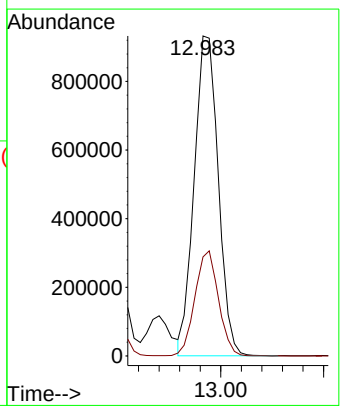


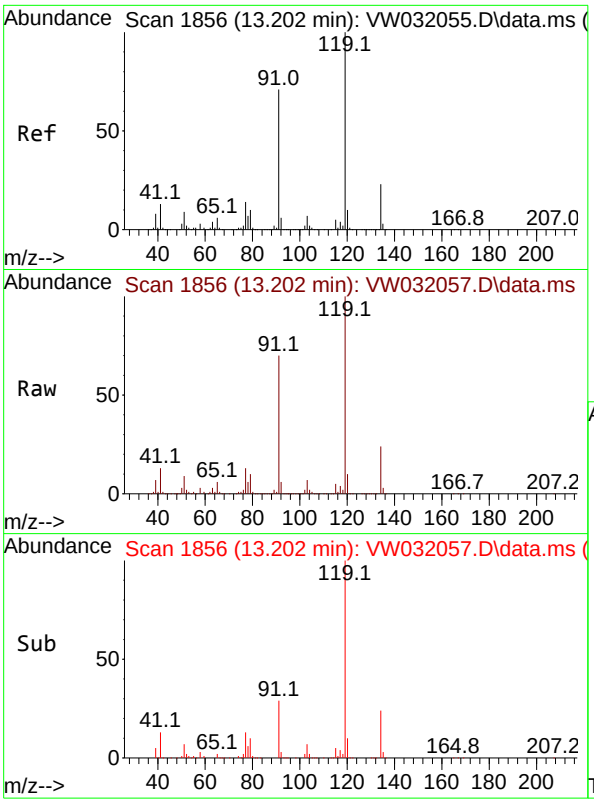


#82
4-Chlorotoluene
Concen: 155.863 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 1515300

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.5	46.5

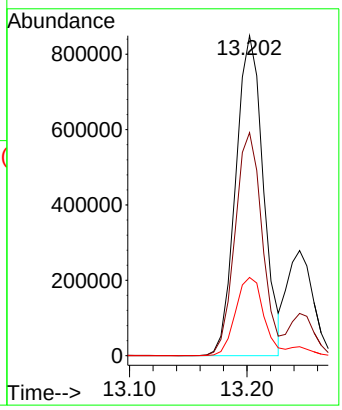




#83
tert-Butylbenzene
Concen: 163.006 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:119 Resp: 138312

Ion	Ratio	Lower	Upper
119	100		
91	68.5	35.3	105.9
134	25.2	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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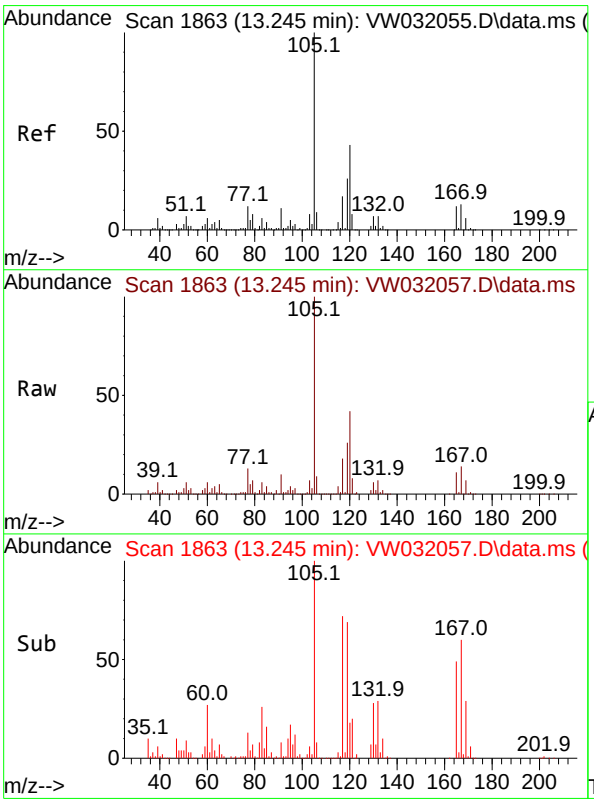
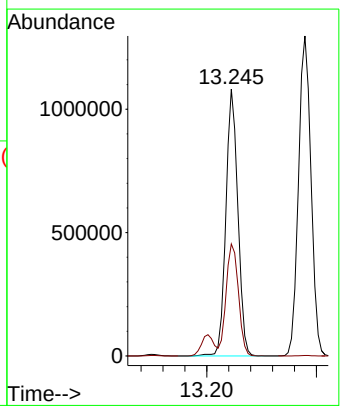
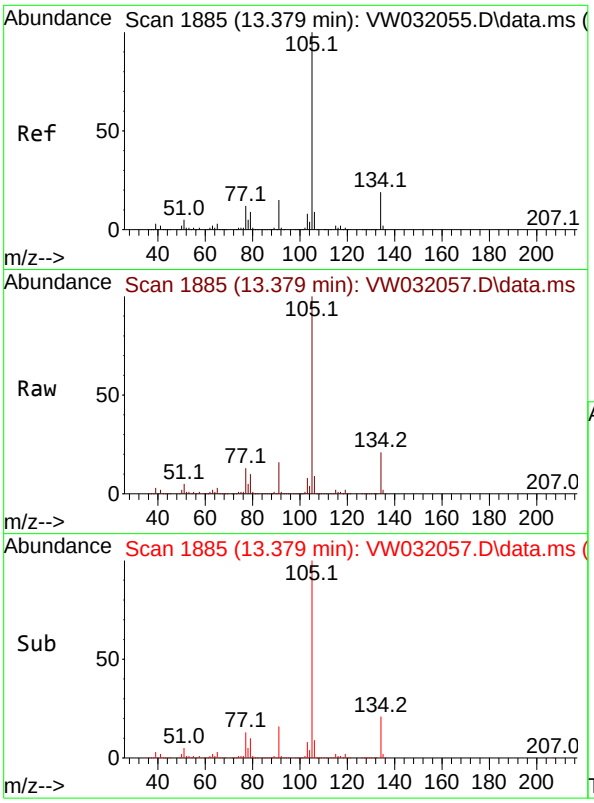


#84
1,2,4-Trimethylbenzene
Concen: 158.189 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1646381

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8





#85
sec-Butylbenzene
Concen: 159.625 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 204776

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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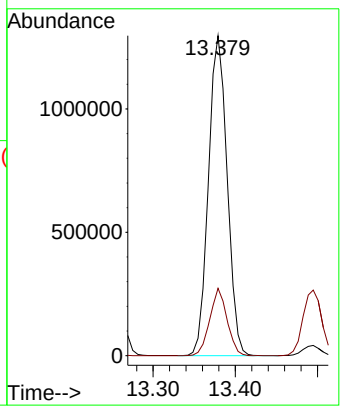
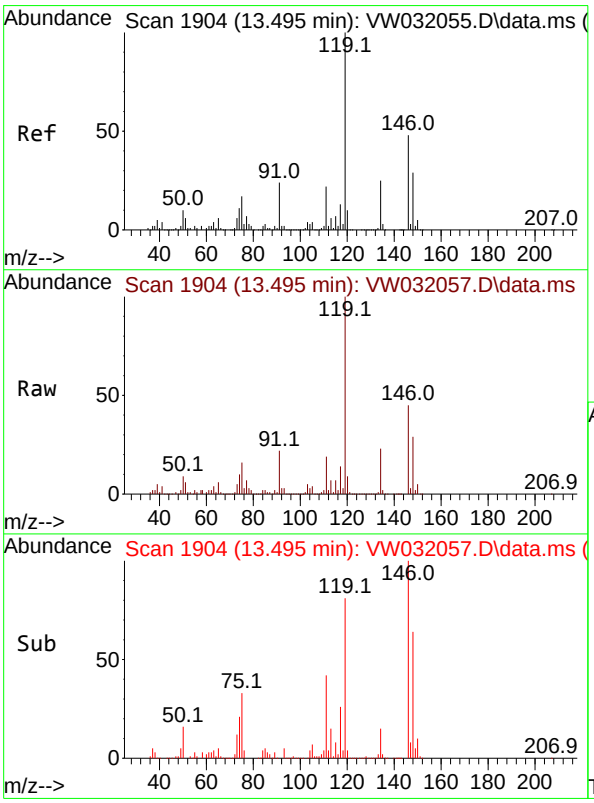
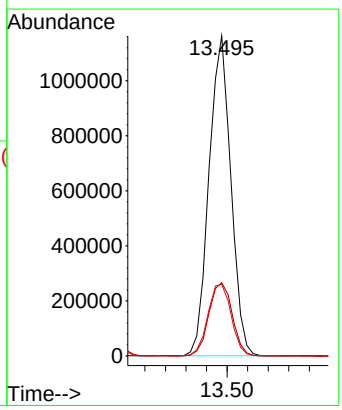


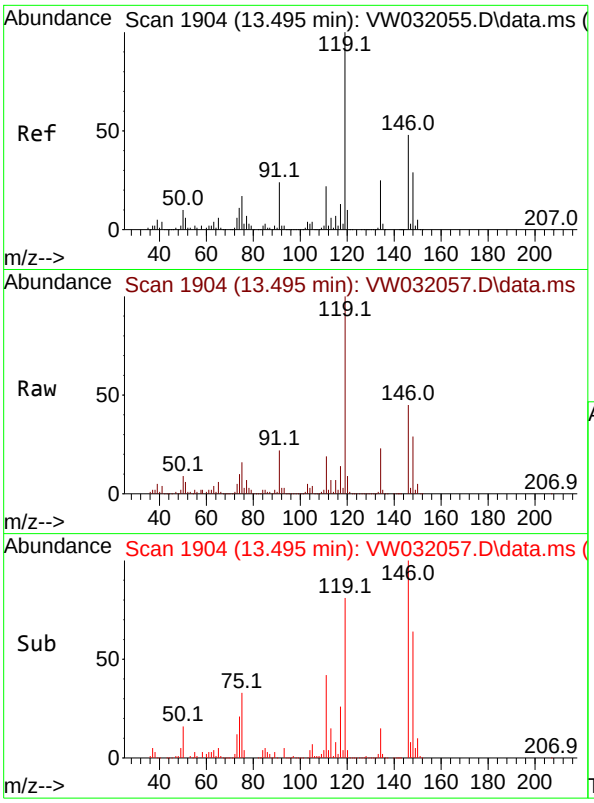


#86
p-Isopropyltoluene
Concen: 160.127 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:119 Resp: 1712519

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.4	37.0
91	24.0	12.1	36.3

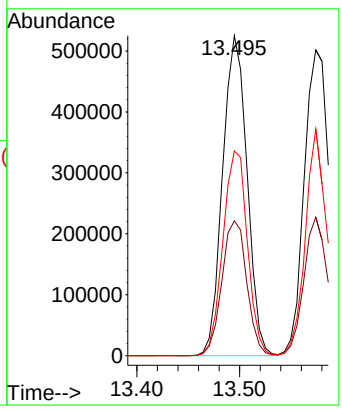




#87
1,3-Dichlorobenzene
Concen: 151.629 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 86782

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.2	63.6
148	64.1	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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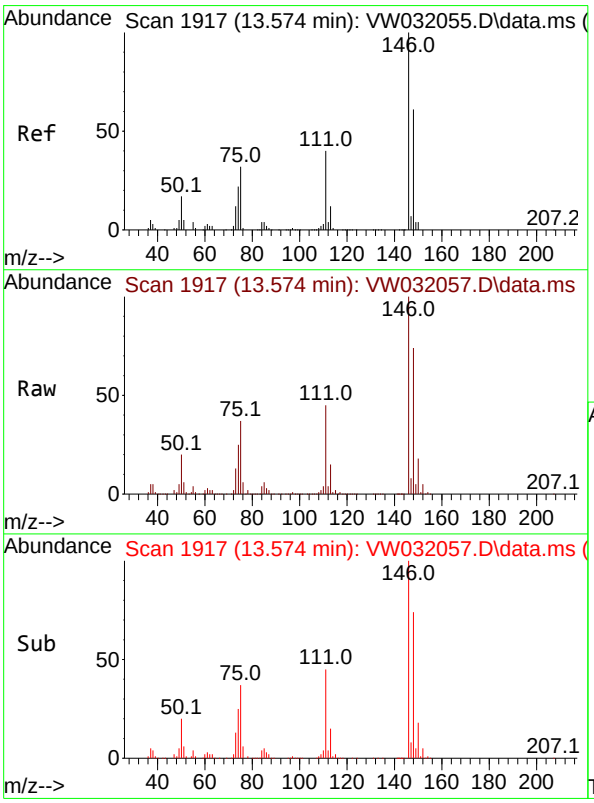
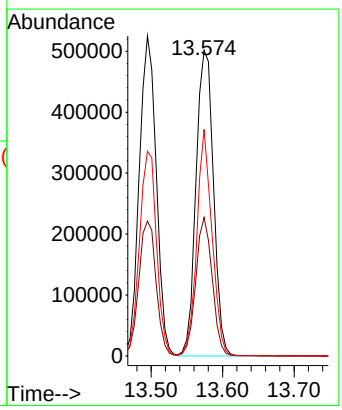
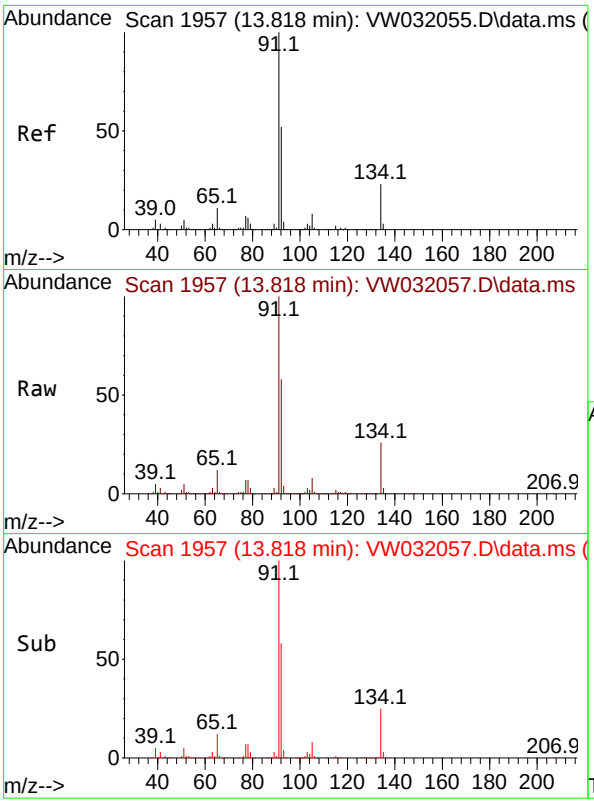


#88
1,4-Dichlorobenzene
Concen: 147.144 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 851057

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.6	64.6
148	64.4	32.0	96.2

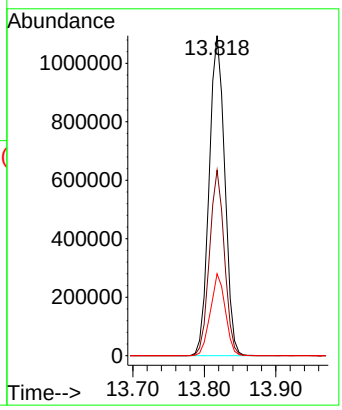




#89
n-Butylbenzene
Concen: 159.527 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 165749

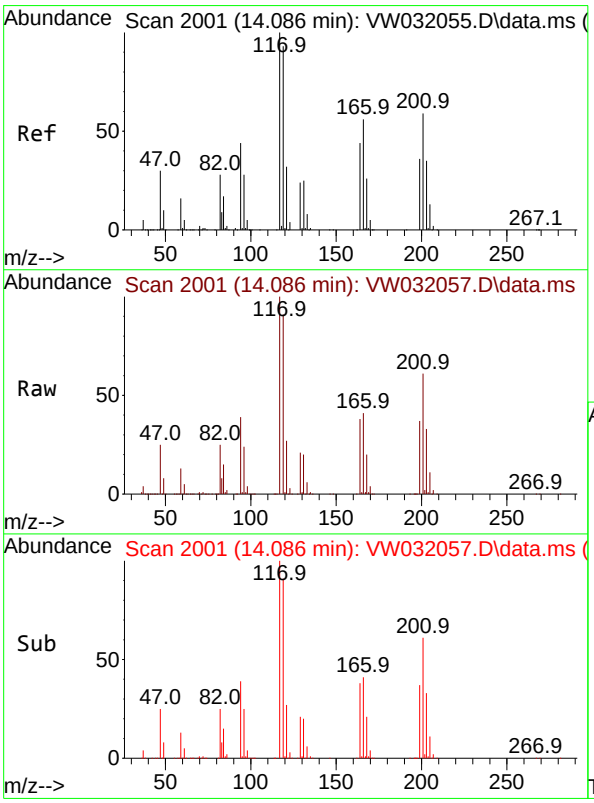
Ion	Ratio	Lower	Upper
91	100		
92	55.4	26.7	80.1
134	24.5	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

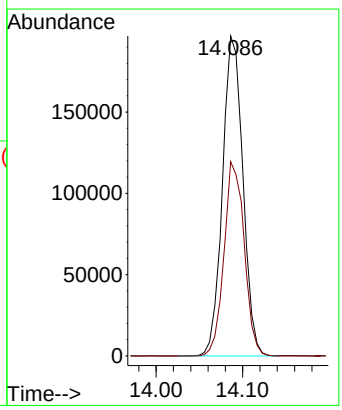
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

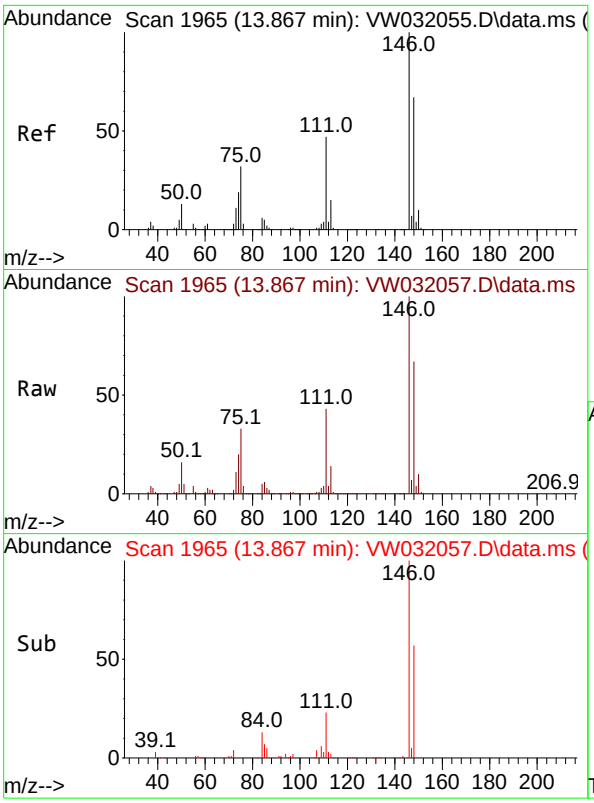


#90
Hexachloroethane
Concen: 164.868 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 322461

Ion	Ratio	Lower	Upper
117	100		
201	60.0	30.9	92.5

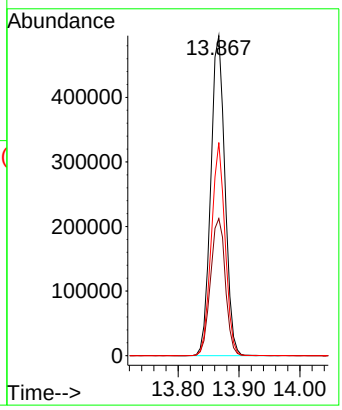




#91
1,2-Dichlorobenzene
Concen: 153.968 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 79825

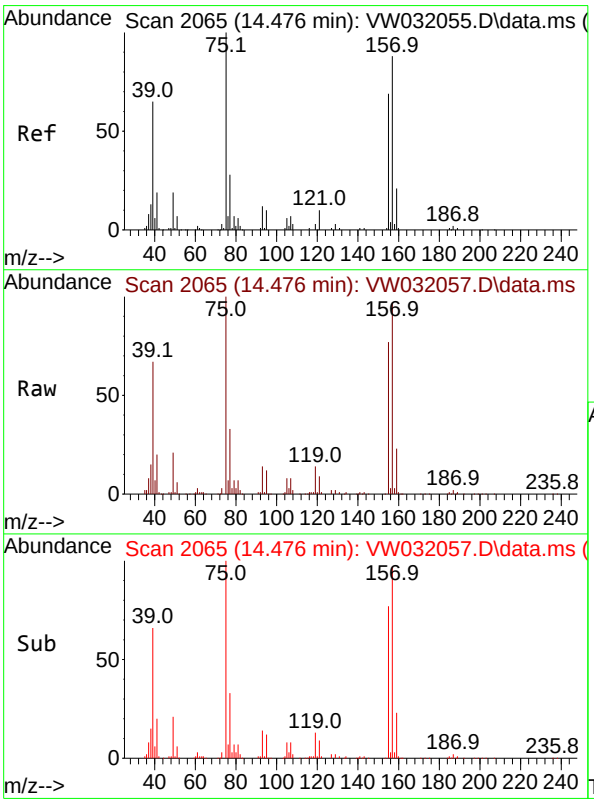
Ion	Ratio	Lower	Upper
146	100		
111	44.9	23.1	69.3
148	64.7	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

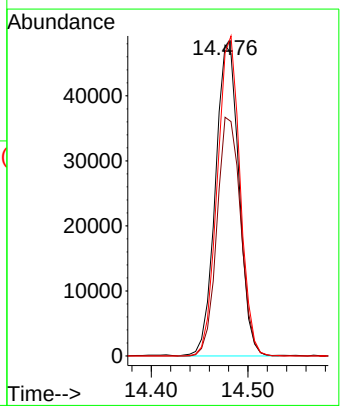
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

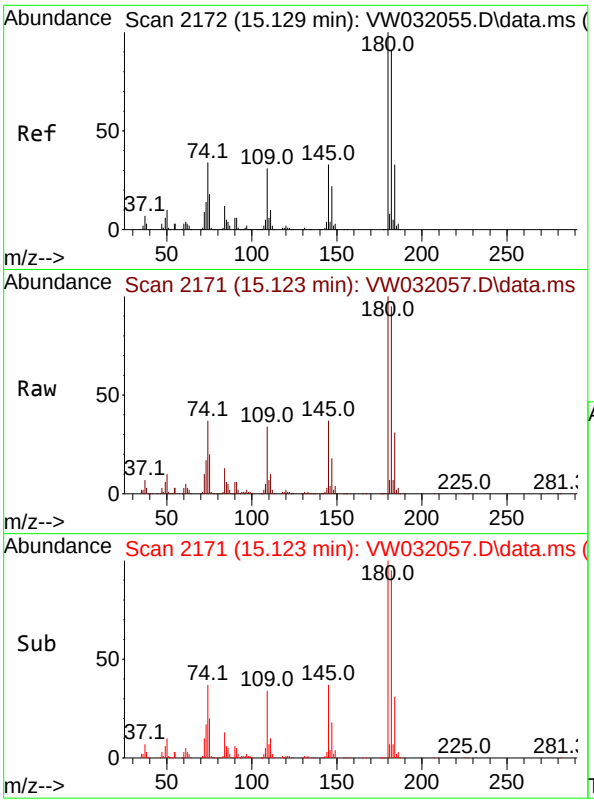


#92
1,2-Dibromo-3-Chloropropane
Concen: 159.472 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 81063

Ion	Ratio	Lower	Upper
75	100		
155	77.0	35.2	105.6
157	98.7	47.5	142.6

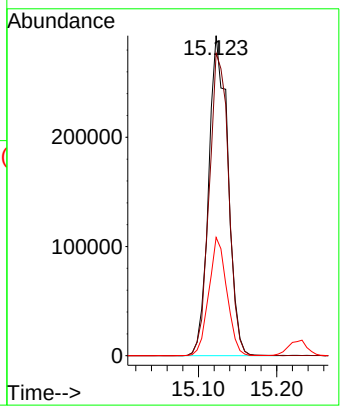




#93
1,2,4-Trichlorobenzene
Concen: 161.006 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 49935

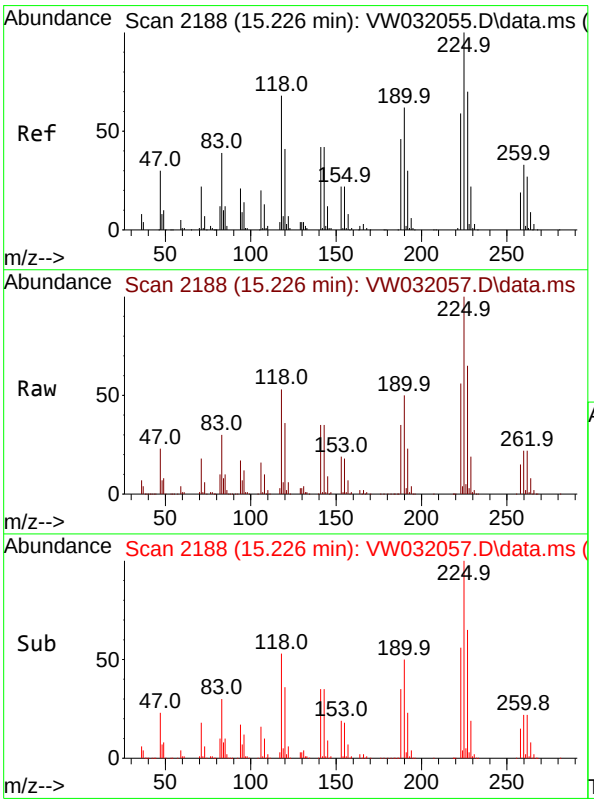
Ion	Ratio	Lower	Upper
180	100		
182	95.3	49.0	147.0
145	34.7	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

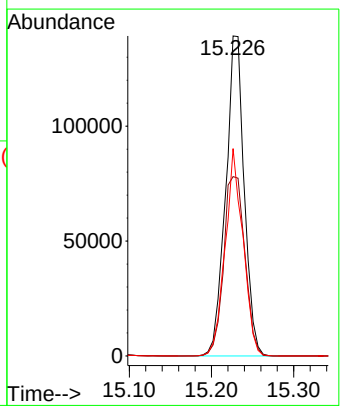
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

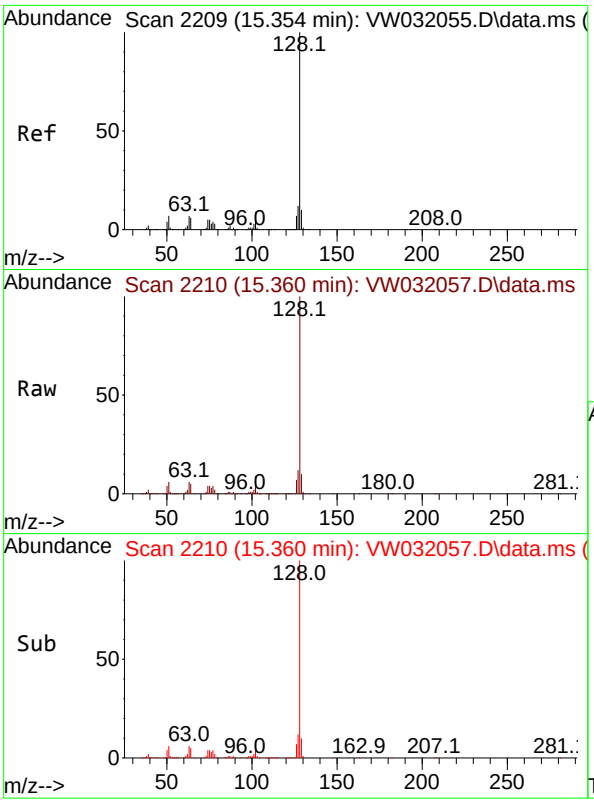


#94
Hexachlorobutadiene
Concen: 157.938 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:225 Resp: 218963

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.8	95.3
227	62.4	33.5	100.5

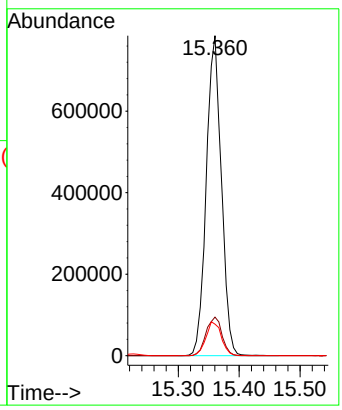




#95
Naphthalene
Concen: 177.424 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:128 Resp: 134834

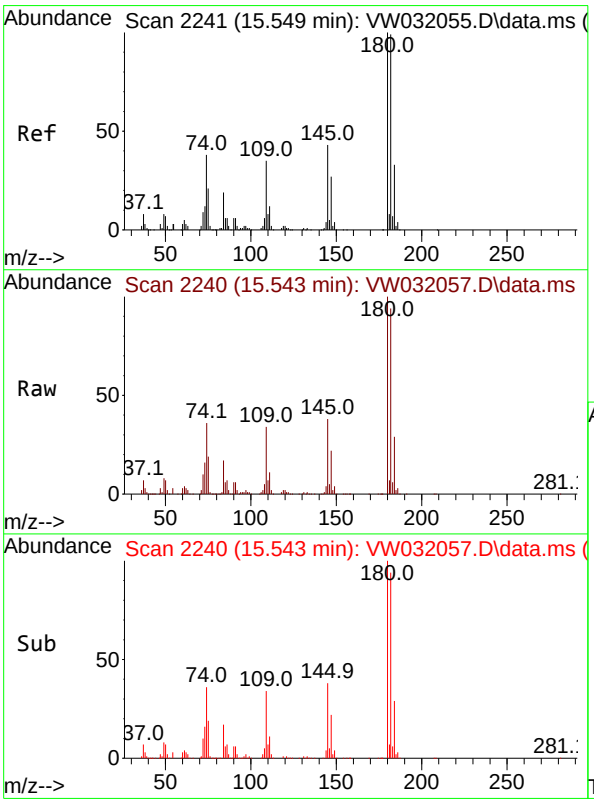
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

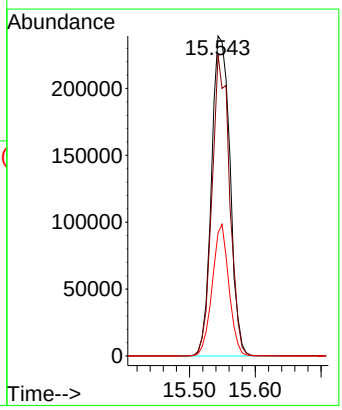
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 165.423 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 466811

Ion	Ratio	Lower	Upper
180	100		
182	89.3	46.0	138.0
145	37.2	19.2	57.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	226453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	420434	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	386856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	182577	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	161155	49.205	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 98.420%			
35) Dibromofluoromethane	7.898	113	135642	49.939	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.880%			
50) Toluene-d8	10.325	98	499377	49.708	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.420%			
62) 4-Bromofluorobenzene	12.617	95	190514	51.460	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	69757	43.069	ug/l	98
3) Chloromethane	2.253	50	103574	47.474	ug/l	100
4) Vinyl Chloride	2.405	62	124287	47.096	ug/l	95
5) Bromomethane	2.820	94	93451	47.201	ug/l	100
6) Chloroethane	2.966	64	83573	47.858	ug/l	97
7) Trichlorofluoromethane	3.308	101	108634	51.386	ug/l	91
8) Diethyl Ether	3.722	74	87261	50.380	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	118012	47.316	ug/l	99
10) Methyl Iodide	4.307	142	175903	49.742	ug/l	97
11) Tert butyl alcohol	5.210	59	57666	271.910	ug/l	99
12) 1,1-Dichloroethene	4.076	96	131802	47.992	ug/l	97
13) Acrolein	3.929	56	80072	236.960	ug/l	98
14) Allyl chloride	4.710	41	204222	51.094	ug/l	99
15) Acrylonitrile	5.405	53	219409	265.958	ug/l	99
16) Acetone	4.161	43	192802	254.262	ug/l	97
17) Carbon Disulfide	4.423	76	360982	48.970	ug/l	96
18) Methyl Acetate	4.716	43	126246	52.614	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	263546	54.465	ug/l	100
20) Methylene Chloride	4.954	84	162865	46.453	ug/l	96
21) trans-1,2-Dichloroethene	5.466	96	145825	50.035	ug/l	98
22) Diisopropyl ether	6.338	45	438483	52.038	ug/l	97
23) Vinyl Acetate	6.283	43	1494873	270.210	ug/l	100
24) 1,1-Dichloroethane	6.246	63	265060	49.234	ug/l	98
25) 2-Butanone	7.191	43	293227	272.083	ug/l	96
26) 2,2-Dichloropropane	7.185	77	134123	49.659	ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	175120	51.404	ug/l	98
28) Bromochloromethane	7.532	49	123268	50.315	ug/l	98
29) Tetrahydrofuran	7.551	42	194909	274.235	ug/l	100
30) Chloroform	7.691	83	284250	49.803	ug/l	98
31) Cyclohexane	7.971	56	217714	46.646	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	207733	50.108	ug/l	97
36) 1,1-Dichloropropene	8.093	75	189820	49.574	ug/l	100
37) Ethyl Acetate	7.270	43	124516	55.214	ug/l	99
38) Carbon Tetrachloride	8.081	117	184816	50.015	ug/l	98
39) Methylcyclohexane	9.343	83	243533	52.181	ug/l	98
40) Benzene	8.337	78	598350	50.272	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	70600	55.204	ug/l		97
42) 1,2-Dichloroethane	8.410	62	194825	51.154	ug/l		99
43) Isopropyl Acetate	8.435	43	227561	54.846	ug/l		99
44) Trichloroethene	9.099	130	139383	49.175	ug/l		99
45) 1,2-Dichloropropane	9.374	63	147807	51.403	ug/l		99
46) Dibromomethane	9.465	93	93713	50.497	ug/l		98
47) Bromodichloromethane	9.648	83	221409	51.775	ug/l		100
48) Methyl methacrylate	9.441	41	110265	55.048	ug/l		98
49) 1,4-Dioxane	9.459	88	27718	1155.151	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.215	43	645391	275.585	ug/l		100
52) Toluene	10.392	92	377919	50.410	ug/l		96
53) t-1,3-Dichloropropene	10.611	75	212772	53.108	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	238970	52.577	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	127536	51.716	ug/l		97
56) Ethyl methacrylate	10.648	69	186039	56.374	ug/l		99
57) 1,3-Dichloropropane	10.934	76	220027	51.186	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	498131	272.893	ug/l		99
59) 2-Hexanone	10.971	43	457083	281.817	ug/l		100
60) Dibromochloromethane	11.129	129	147264	52.276	ug/l		100
61) 1,2-Dibromoethane	11.239	107	126064	52.603	ug/l		100
64) Tetrachloroethene	10.861	164	114507	51.245	ug/l		95
65) Chlorobenzene	11.660	112	416485	49.461	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.733	131	132212	50.324	ug/l		98
67) Ethyl Benzene	11.727	91	716757	50.253	ug/l		100
68) m/p-Xylenes	11.837	106	559216	101.607	ug/l		99
69) o-Xylene	12.160	106	261548	51.416	ug/l		98
70) Styrene	12.178	104	468335	51.833	ug/l		99
71) Bromoform	12.349	173	82571	54.945	ug/l	#	98
73) Isopropylbenzene	12.458	105	670779	52.571	ug/l		99
74) N-amyl acetate	12.269	43	203837	55.682	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.714	83	159092	52.514	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	119168m	48.091	ug/l		
77) Bromobenzene	12.745	156	152028	49.886	ug/l		94
78) n-propylbenzene	12.800	91	803474	51.148	ug/l		99
79) 2-Chlorotoluene	12.885	91	495562	51.114	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	566437	52.291	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	51275	53.570	ug/l		97
82) 4-Chlorotoluene	12.989	91	518248	50.312	ug/l		99
83) tert-Butylbenzene	13.202	119	483459	53.777	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	587831	53.308	ug/l		99
85) sec-Butylbenzene	13.379	105	687367	50.571	ug/l		100
86) p-Isopropyltoluene	13.495	119	584473	51.580	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	305044	50.304	ug/l		95
88) 1,4-Dichlorobenzene	13.574	146	306047	49.942	ug/l		97
89) n-Butylbenzene	13.818	91	571978	51.958	ug/l		98
90) Hexachloroethane	14.092	117	104295	50.329	ug/l		95
91) 1,2-Dichlorobenzene	13.867	146	279745	50.926	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.482	75	29014	53.872	ug/l		98
93) 1,2,4-Trichlorobenzene	15.123	180	173386	52.764	ug/l		90
94) Hexachlorobutadiene	15.226	225	75299	51.262	ug/l		92
95) Naphthalene	15.360	128	438139	54.415	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	162431	54.327	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
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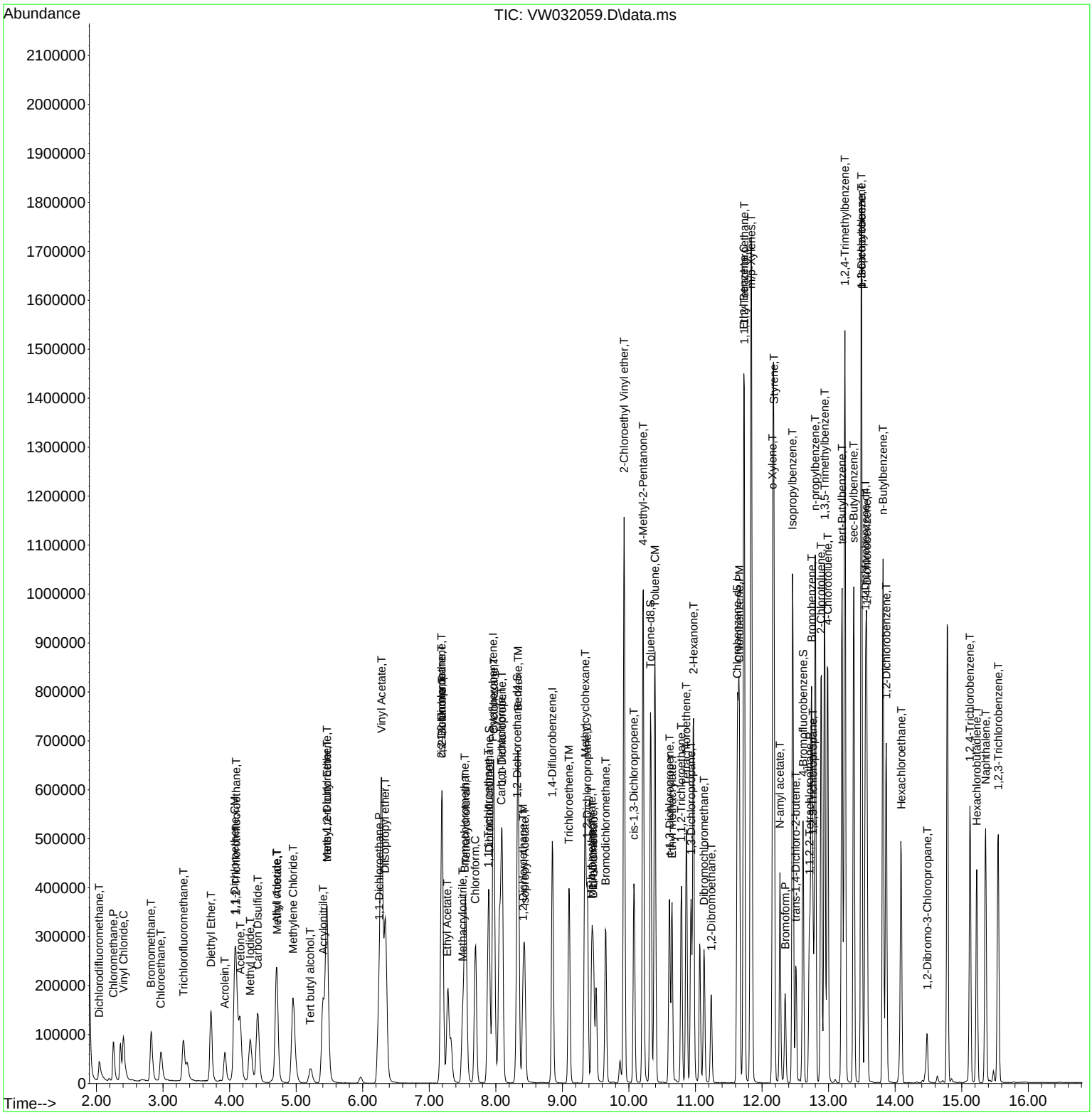
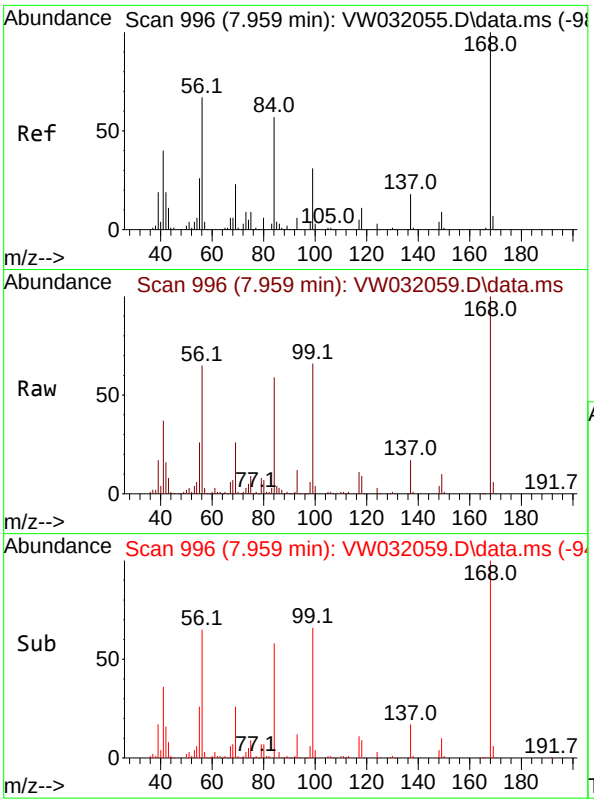




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

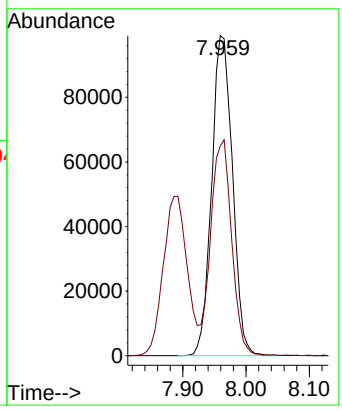
Tgt Ion:168 Resp: 22645

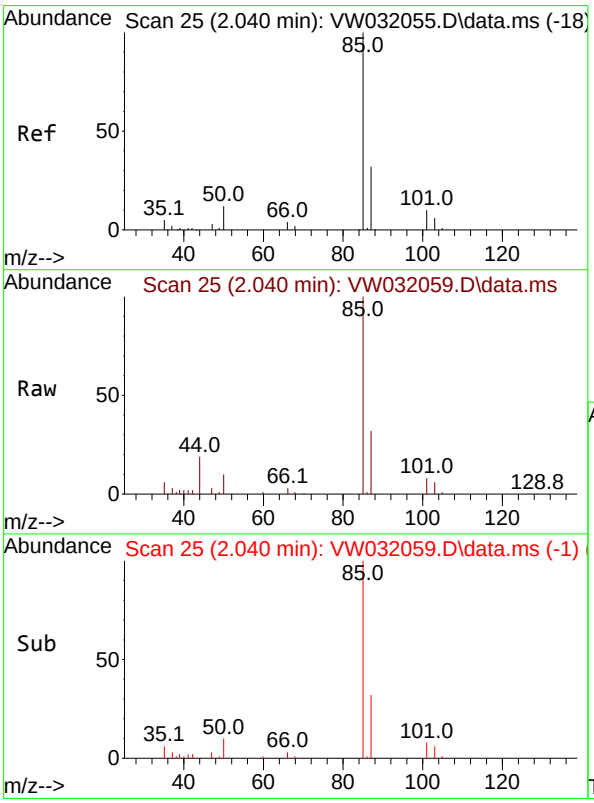
Ion	Ratio	Lower	Upper
168	100		
99	65.5	56.0	84.0

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

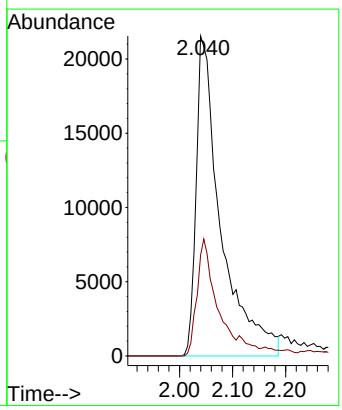


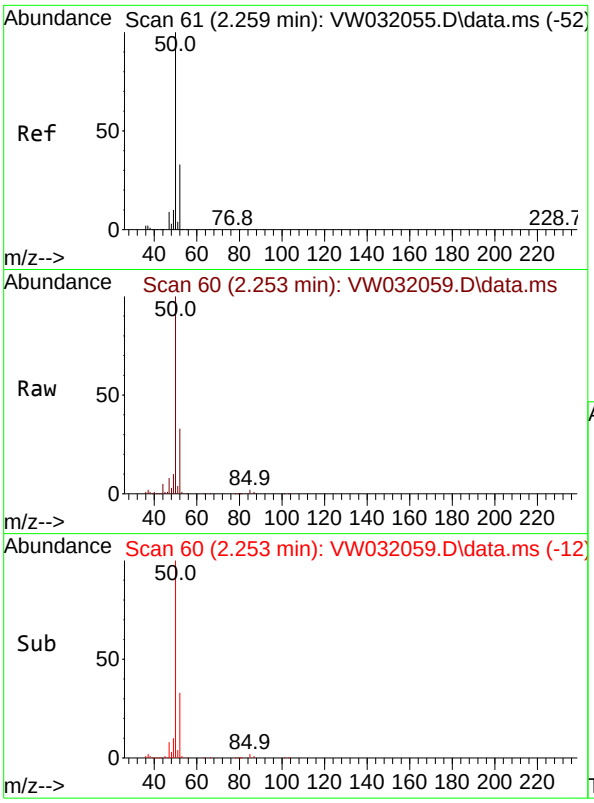


#2
Dichlorodifluoromethane
Concen: 43.069 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 85 Resp: 69757

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.2	48.6

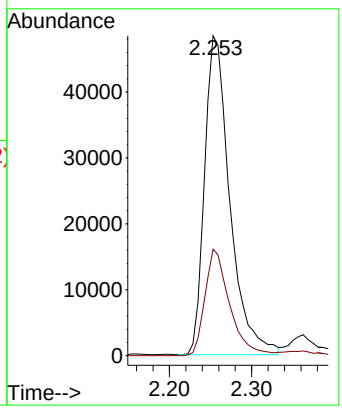




#3
Chloromethane
Concen: 47.474 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 50 Resp: 10357

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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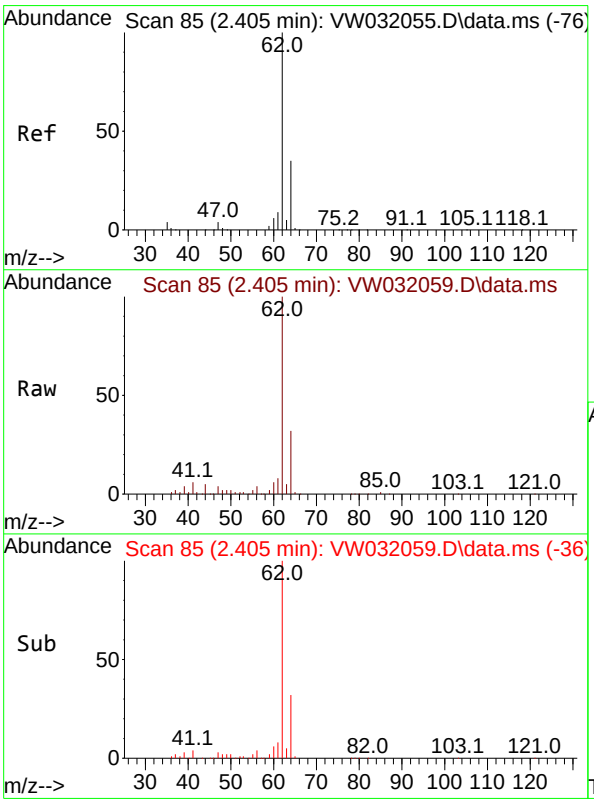
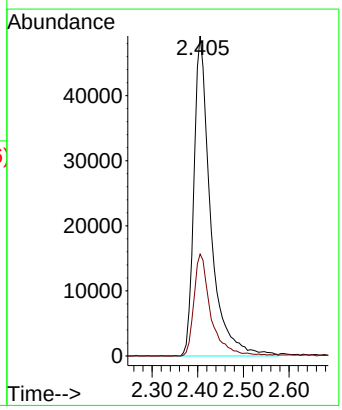
Supervised By :Semsettin Yesilyurt 08/12/2025

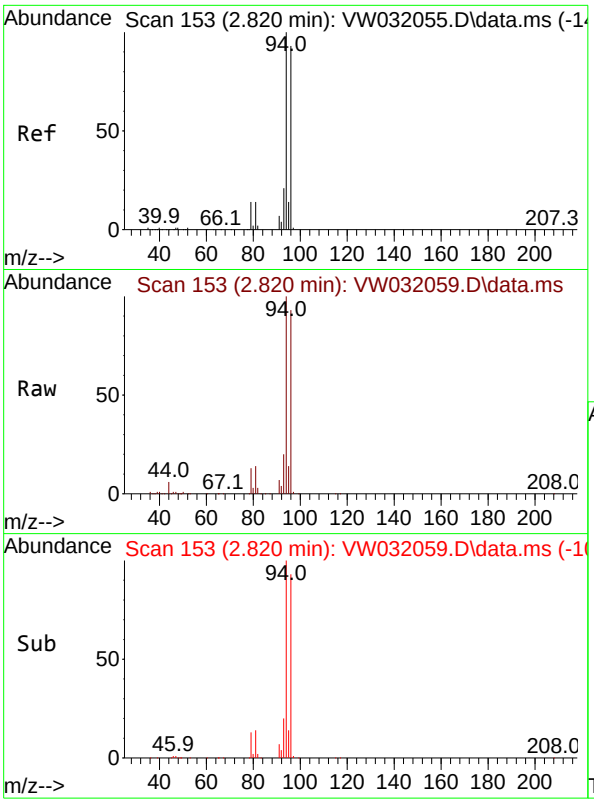


#4
Vinyl Chloride
Concen: 47.096 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 124287

Ion	Ratio	Lower	Upper
62	100		
64	31.9	27.8	41.6

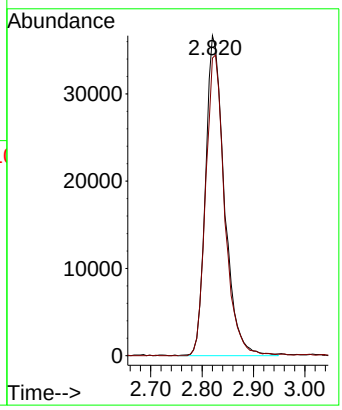




#5
Bromomethane
Concen: 47.201 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 94 Resp: 9345

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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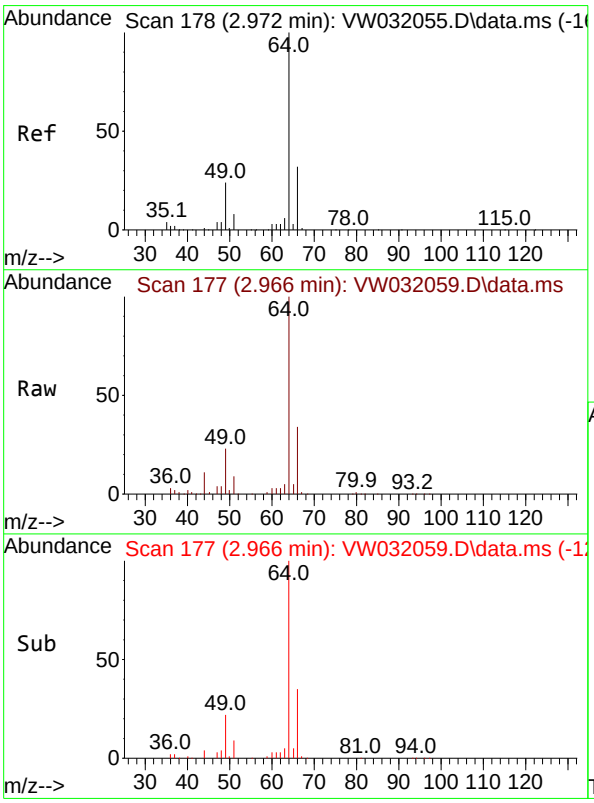
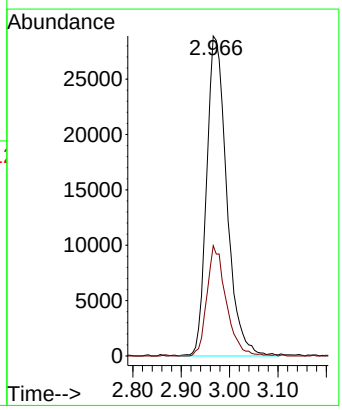
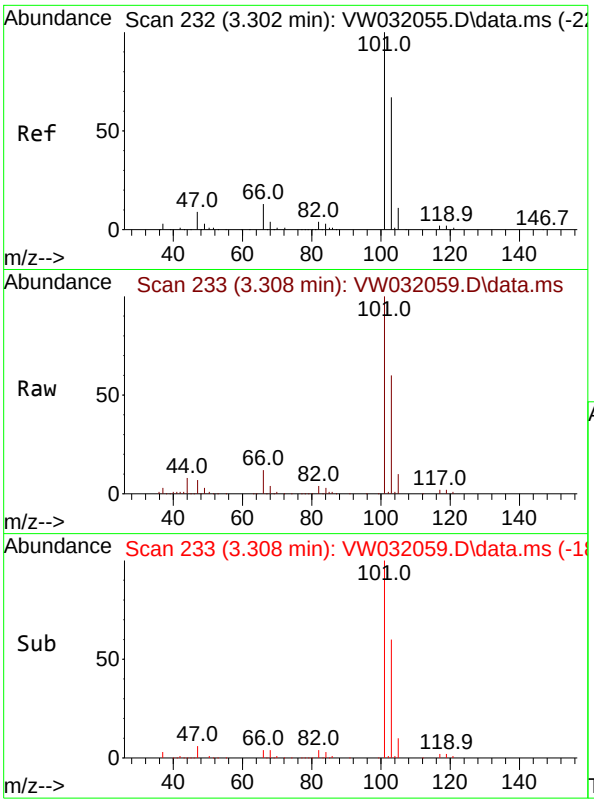


#6
Chloroethane
Concen: 47.858 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 64 Resp: 83573

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.0	39.0

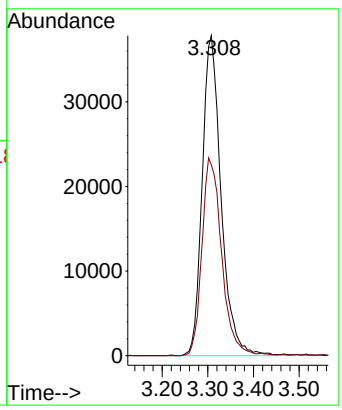




#7
Trichlorofluoromethane
Concen: 51.386 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:101 Resp: 10863

Ion	Ratio	Lower	Upper
101	100		
103	59.6	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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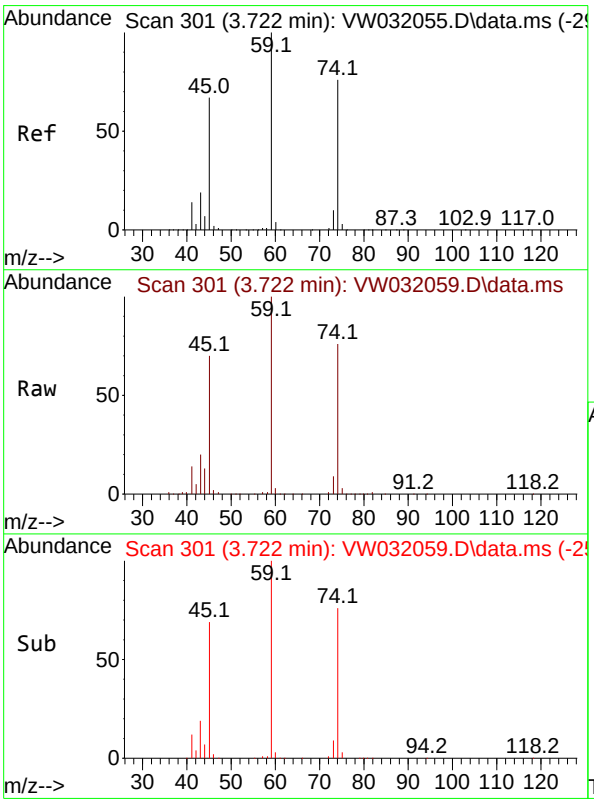
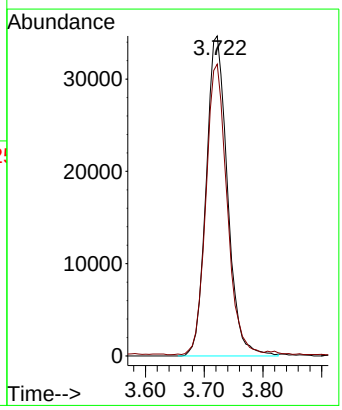
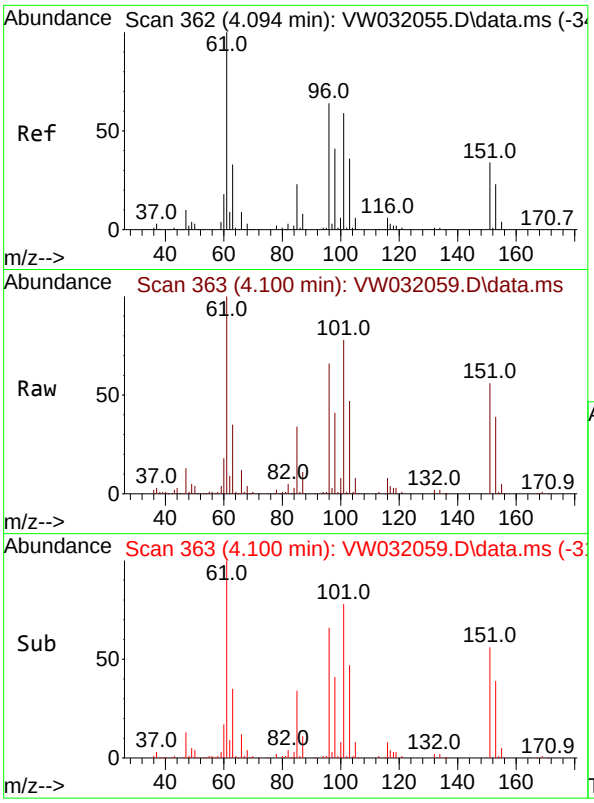


#8
Diethyl Ether
Concen: 50.380 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 74 Resp: 87261

Ion	Ratio	Lower	Upper
74	100		
45	90.2	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.316 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:101 Resp: 11801

Ion	Ratio	Lower	Upper
101	100		
85	44.3	34.9	52.3
151	69.9	56.2	84.4

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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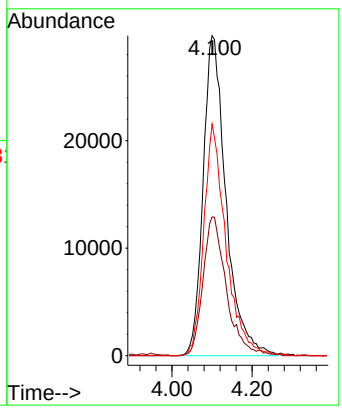
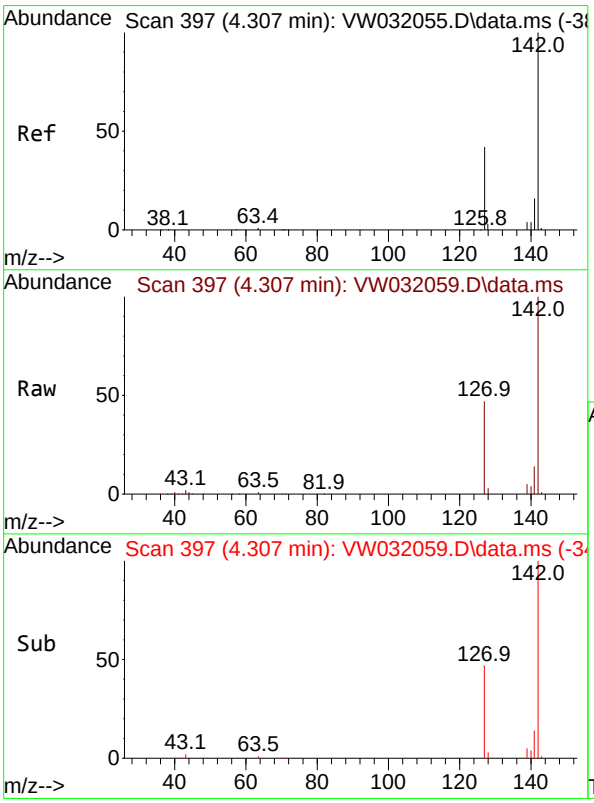
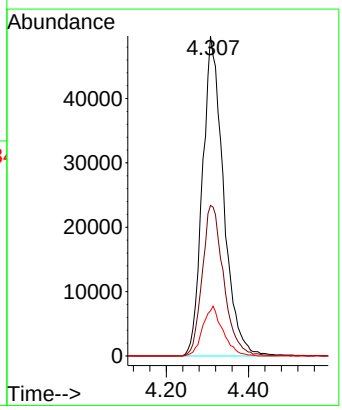


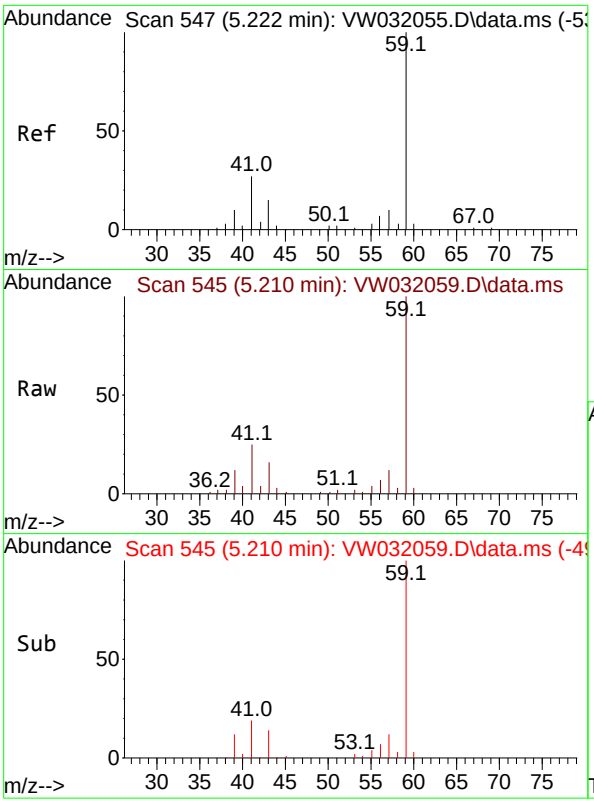


#10
Methyl Iodide
Concen: 49.742 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:142 Resp: 175903

Ion	Ratio	Lower	Upper
142	100		
127	48.1	36.6	55.0
141	14.9	12.1	18.1





#11
Tert butyl alcohol
Concen: 271.910 ug/l
RT: 5.210 min Scan# 54
Delta R.T. -0.012 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 59 Resp: 5766

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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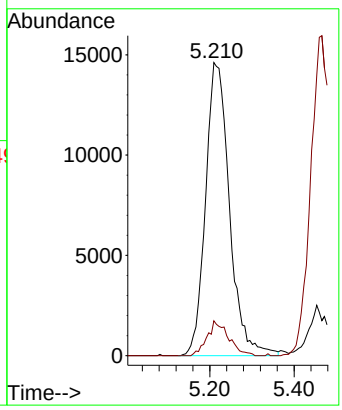
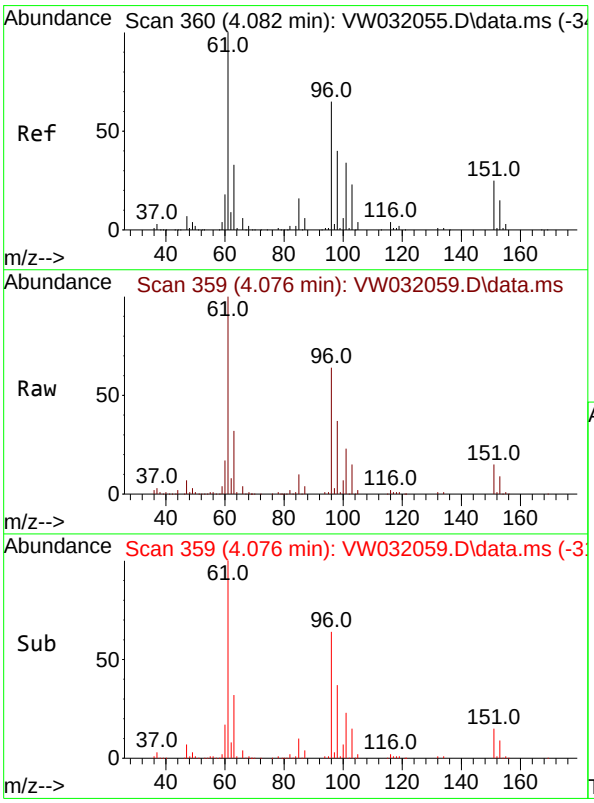
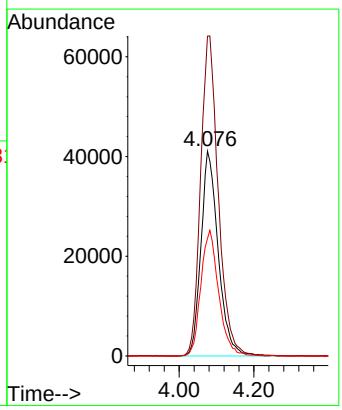


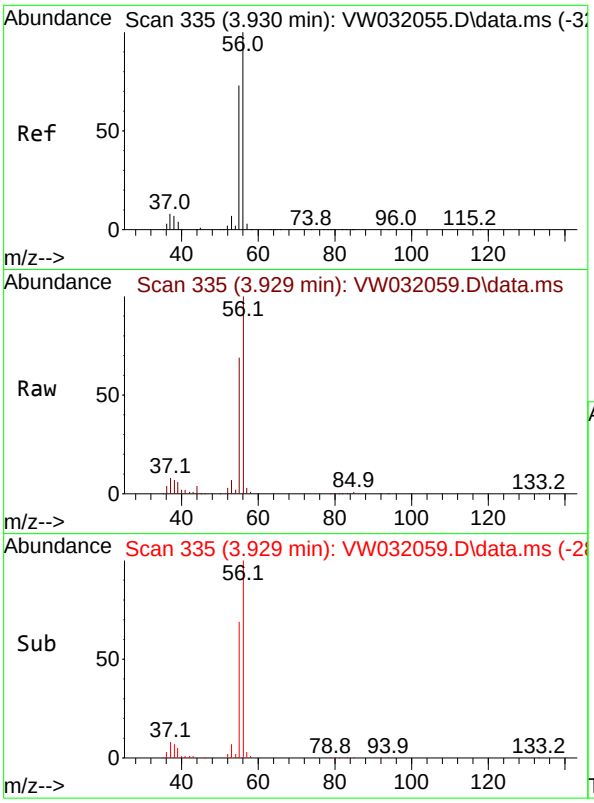


#12
1,1-Dichloroethene
Concen: 47.992 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 131802

Ion	Ratio	Lower	Upper
96	100		
61	156.3	123.4	185.2
98	57.4	49.5	74.3

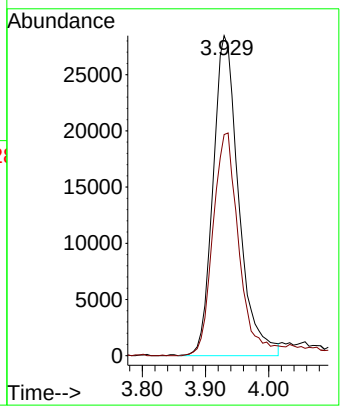




#13
Acrolein
Concen: 236.960 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 56 Resp: 8007

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
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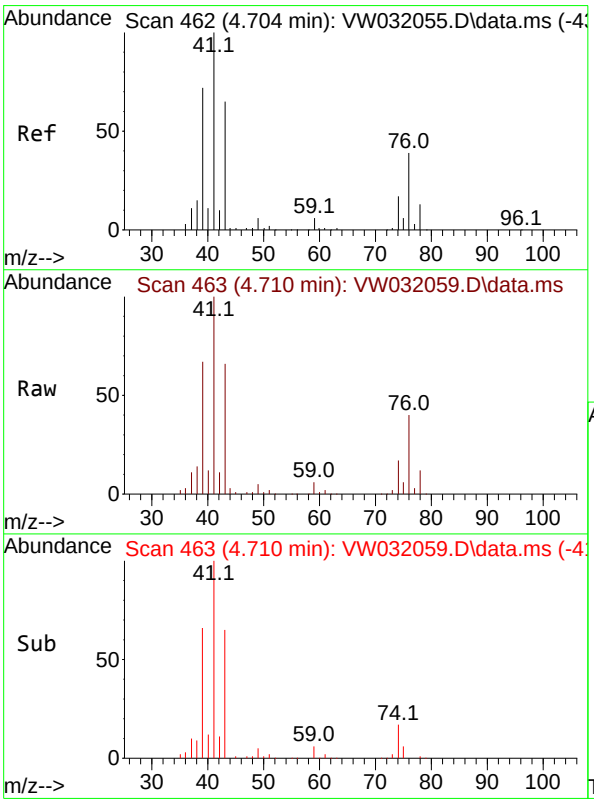
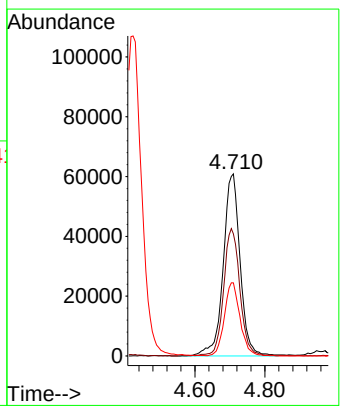
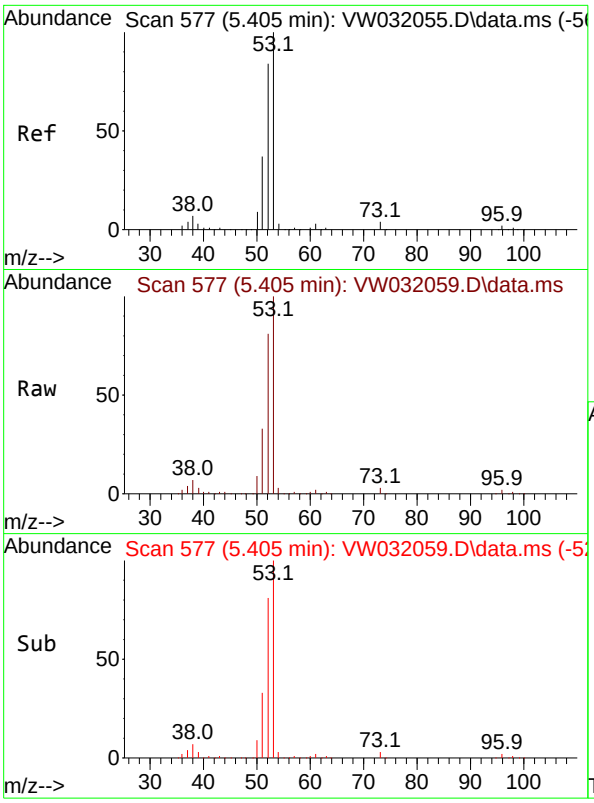


#14
Allyl chloride
Concen: 51.094 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 204222

Ion	Ratio	Lower	Upper
41	100		
39	66.9	54.5	81.7
76	37.4	29.3	43.9

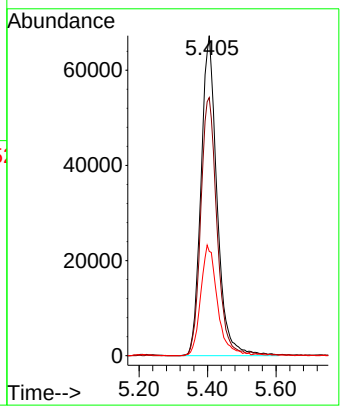




#15
Acrylonitrile
Concen: 265.958 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 53 Resp: 21940

Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.1	99.1
51	36.0	29.2	43.8



Instrument :
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ClientSampleId :
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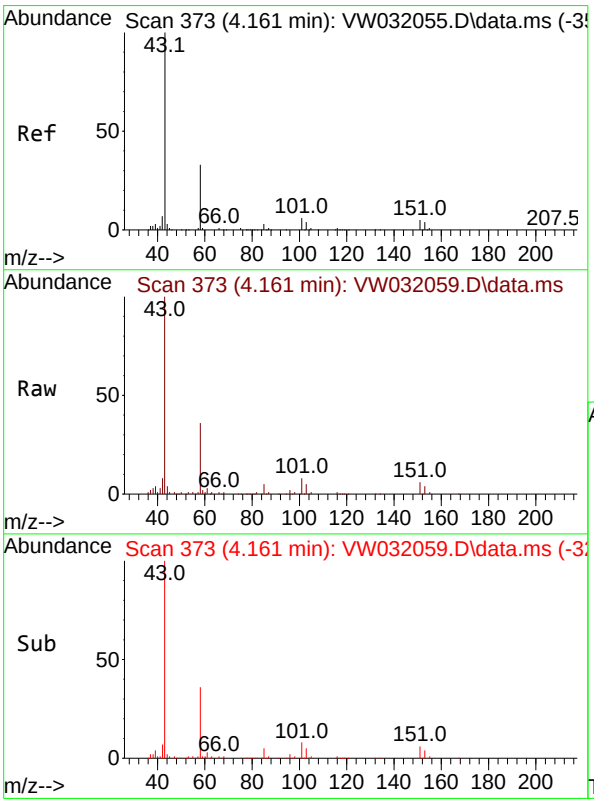
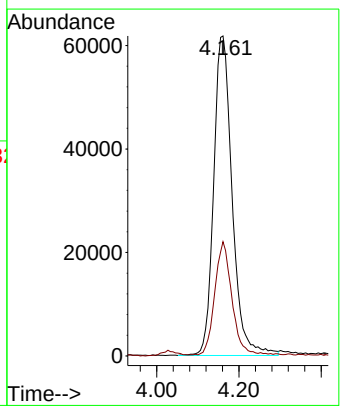
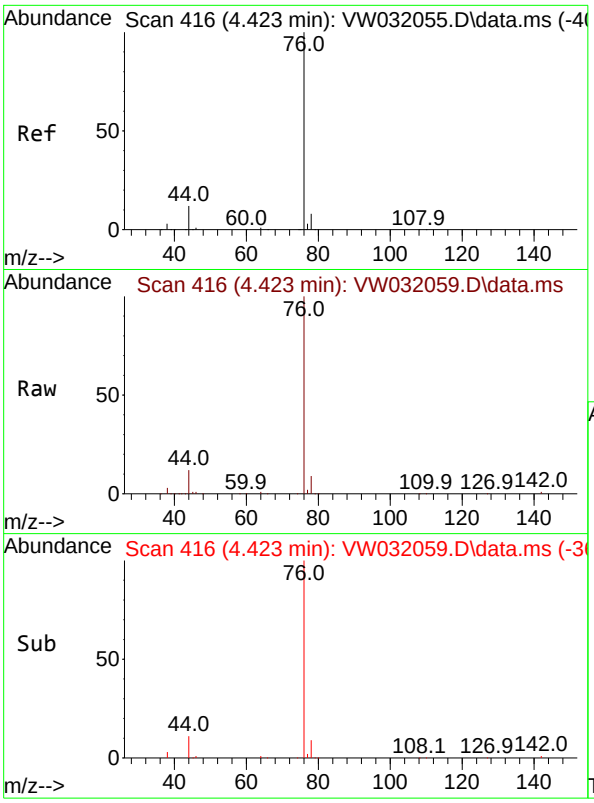


#16
Acetone
Concen: 254.262 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 192802

Ion	Ratio	Lower	Upper
43	100		
58	35.1	26.6	39.8





#17
Carbon Disulfide
Concen: 48.970 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 76 Resp: 36098

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.4	9.6

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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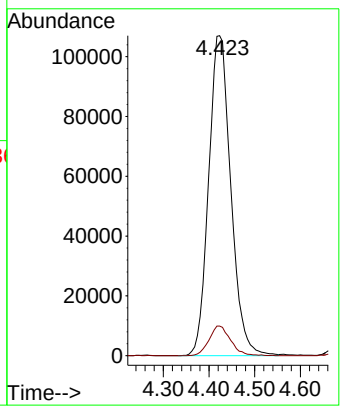
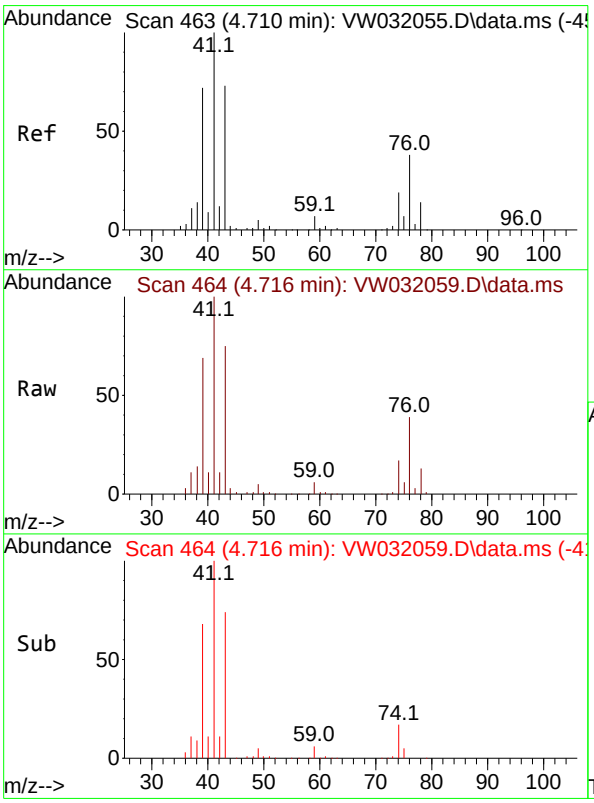
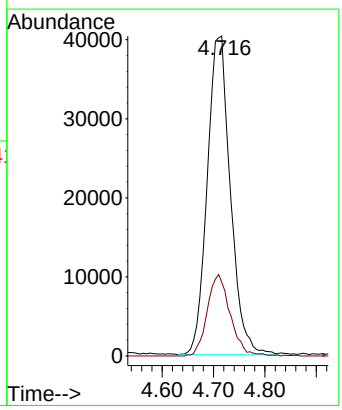


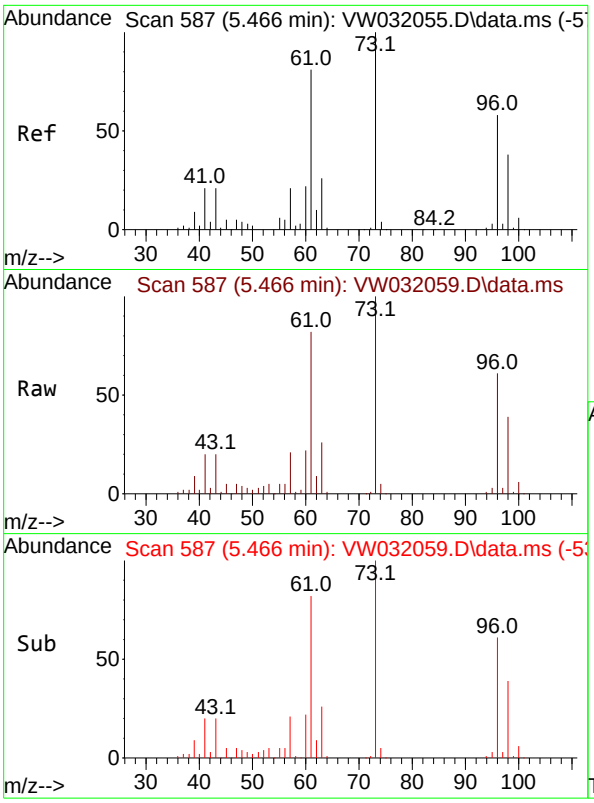


#18
Methyl Acetate
Concen: 52.614 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 126246

Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.6	31.0

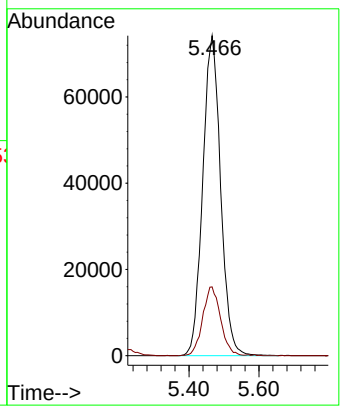




#19
Methyl tert-butyl Ether
Concen: 54.465 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 73 Resp: 26354

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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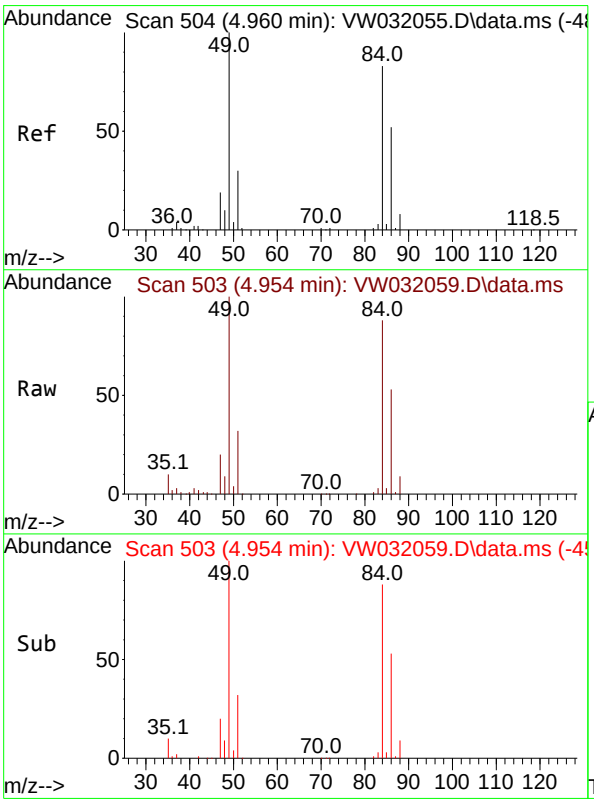
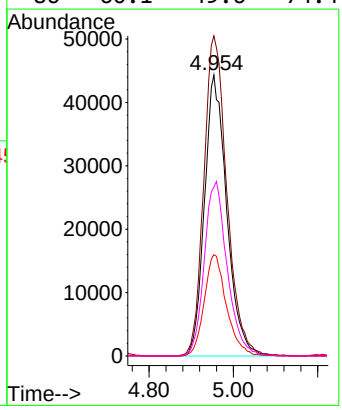
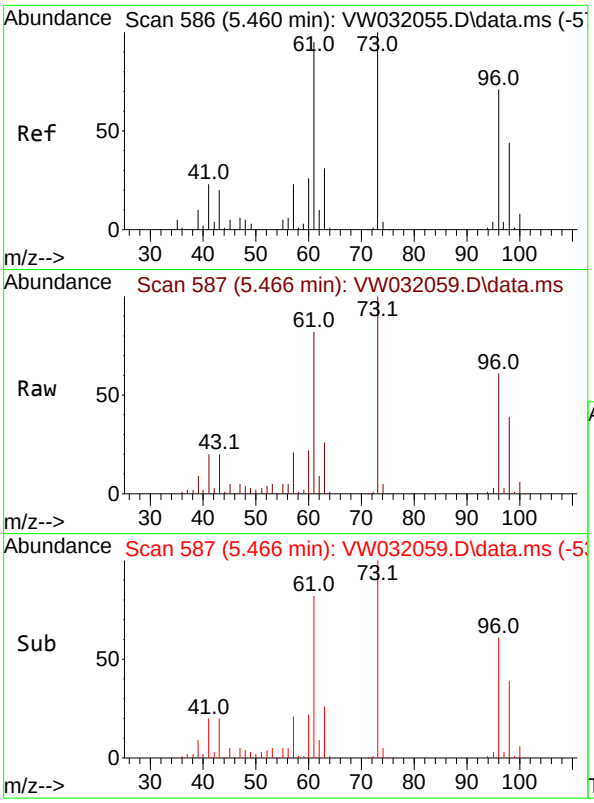


#20
Methylene Chloride
Concen: 46.453 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 84 Resp: 162865

Ion	Ratio	Lower	Upper
84	100		
49	113.9	95.9	143.9
51	36.1	28.6	43.0
86	60.1	49.6	74.4

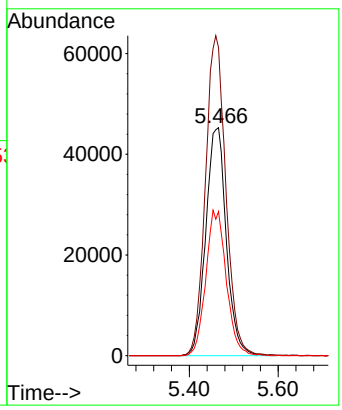




#21
trans-1,2-Dichloroethene
Concen: 50.035 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 14582

Ion	Ratio	Lower	Upper
96	100		
61	135.2	106.8	160.2
98	63.3	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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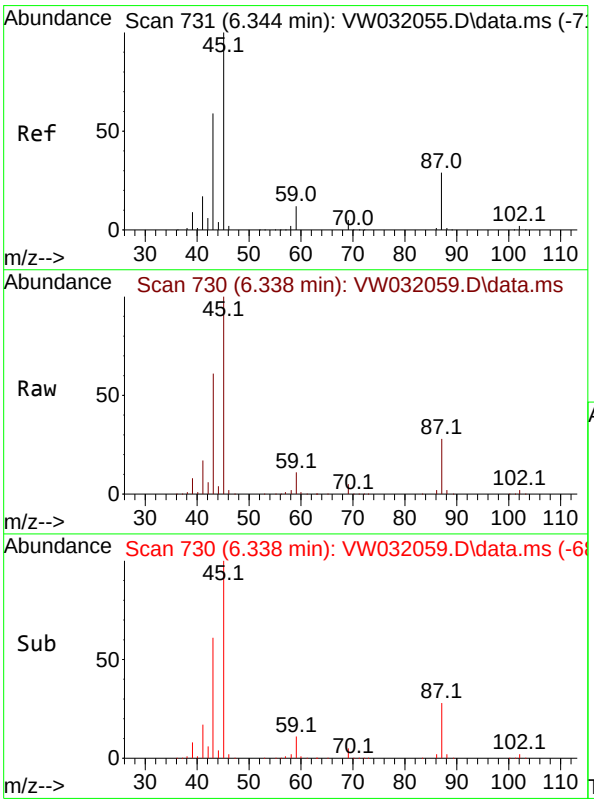
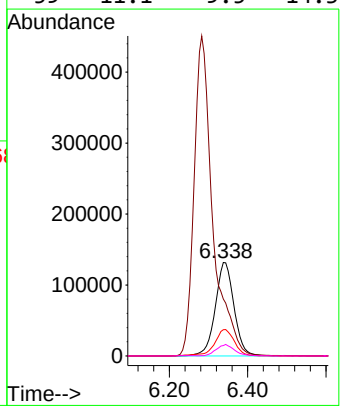
Supervised By :Semsettin Yesilyurt 08/12/2025

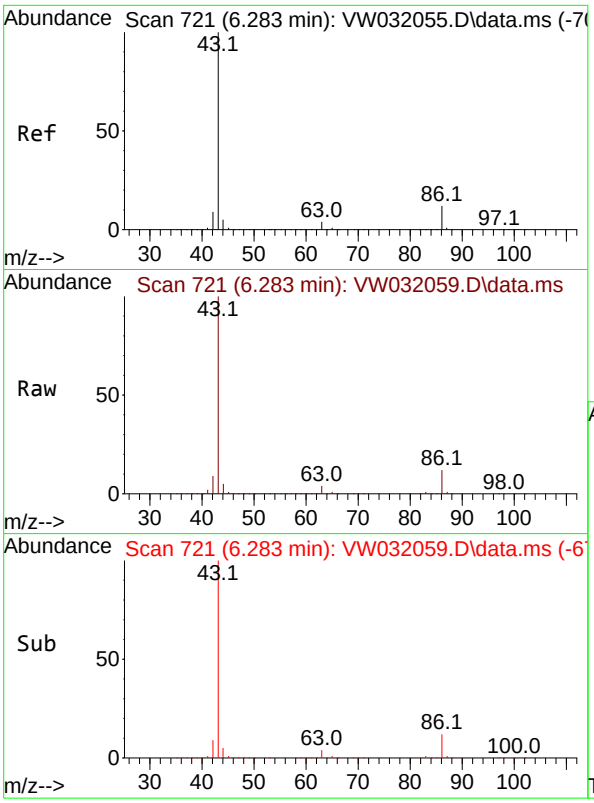


#22
Diisopropyl ether
Concen: 52.038 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 45 Resp: 438483

Ion	Ratio	Lower	Upper
45	100		
43	60.4	47.0	70.4
87	28.0	23.8	35.8
59	11.1	9.5	14.3





#23
Vinyl Acetate
Concen: 270.210 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 149487

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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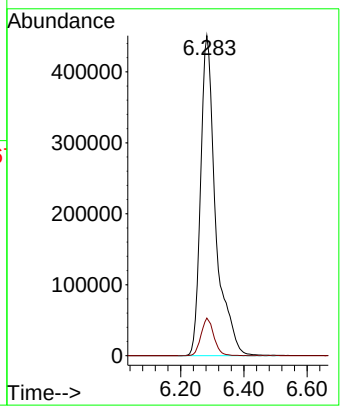
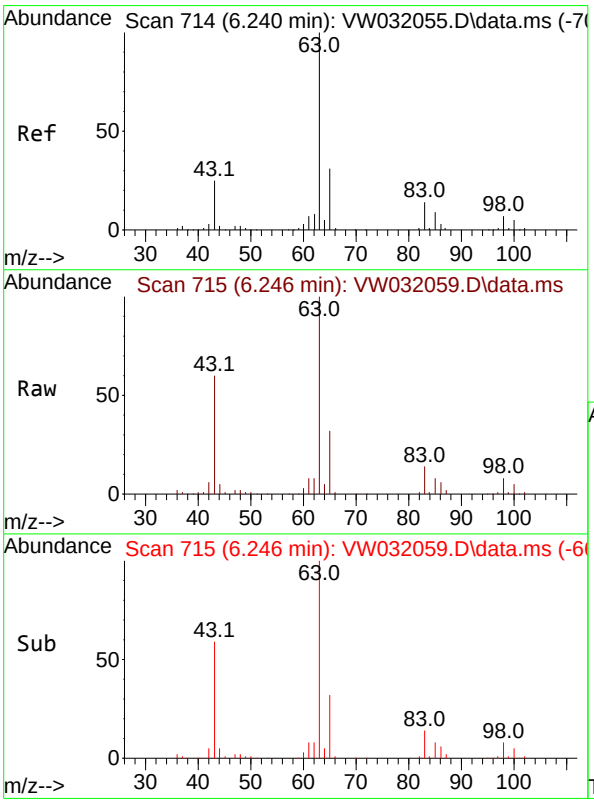
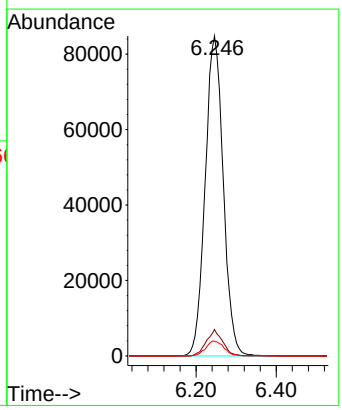


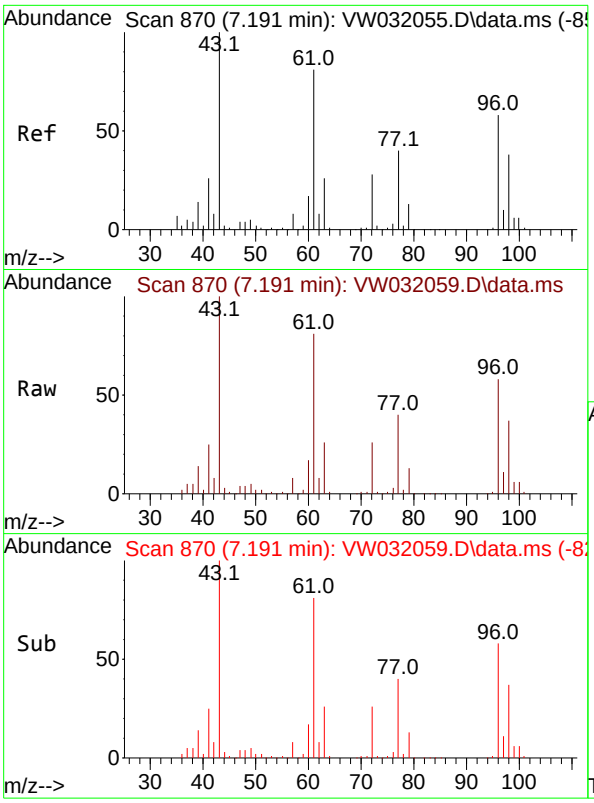


#24
1,1-Dichloroethane
Concen: 49.234 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 265060

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.7	11.1
100	4.6	2.5	7.4

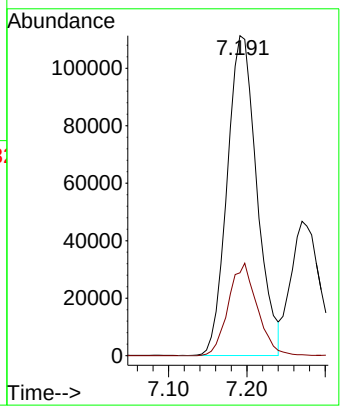




#25
2-Butanone
Concen: 272.083 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 29322

Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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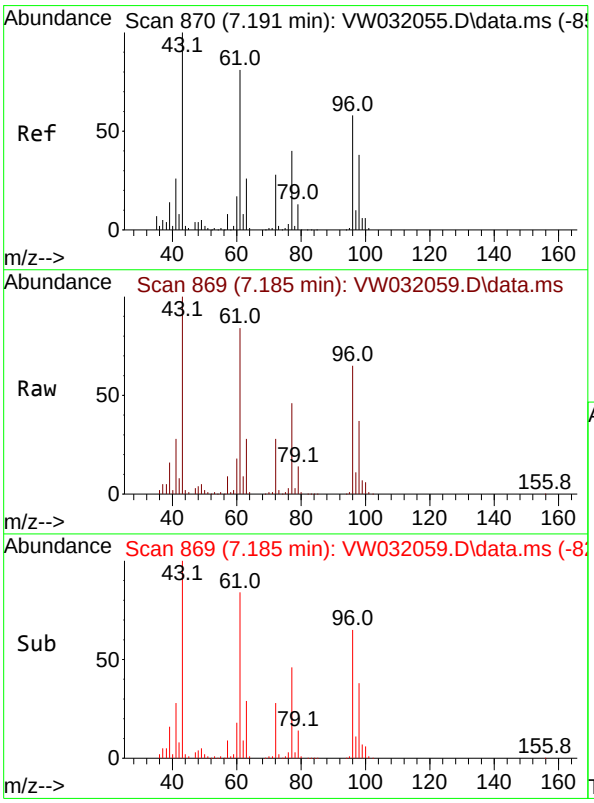
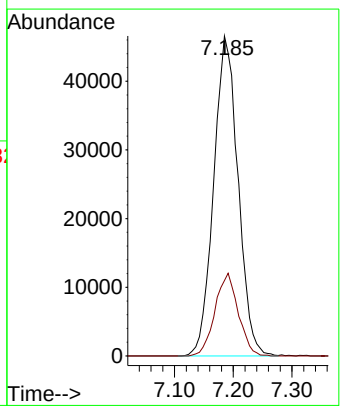
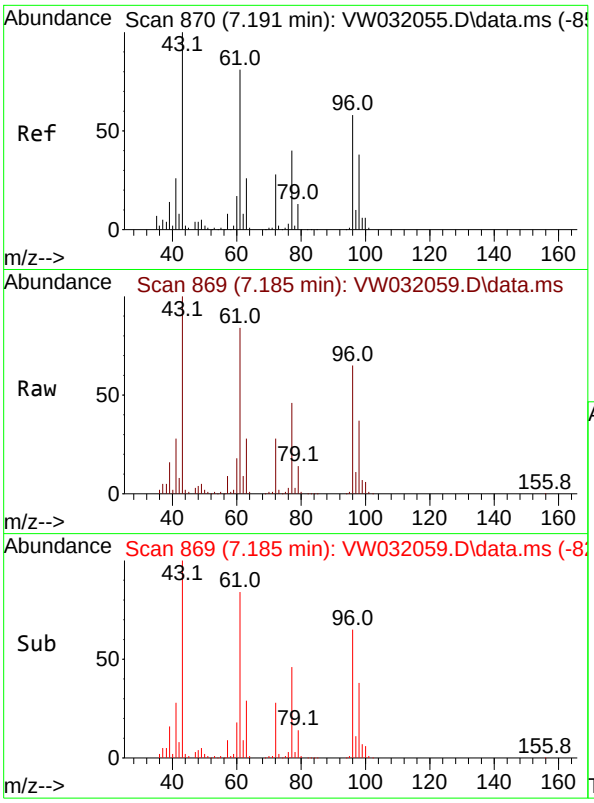


#26
2,2-Dichloropropane
Concen: 49.659 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 77 Resp: 134123

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 51.404 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 17512

Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	281.2
98	63.6	0.0	130.8

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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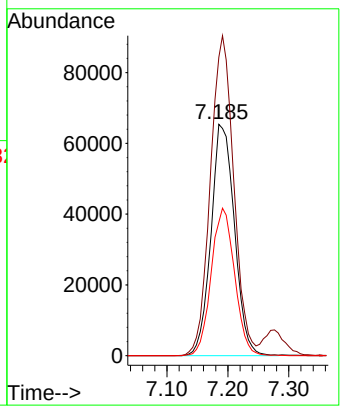
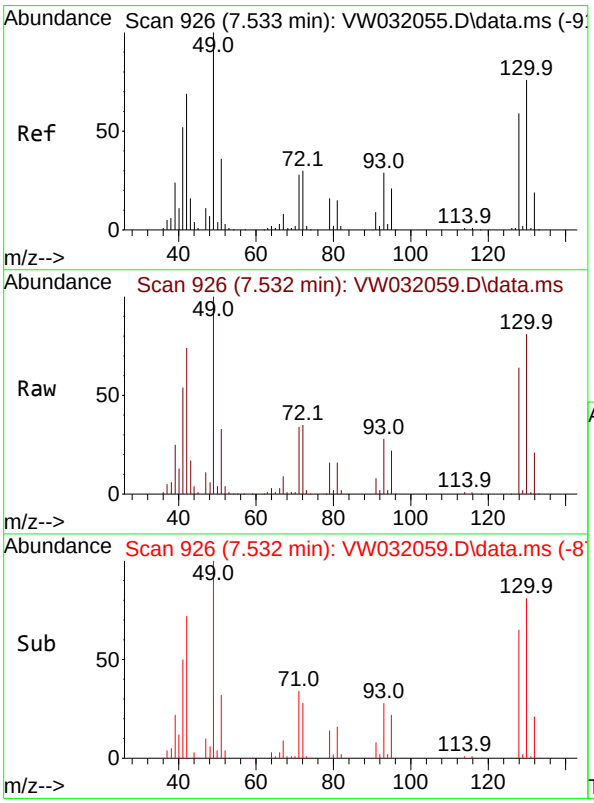
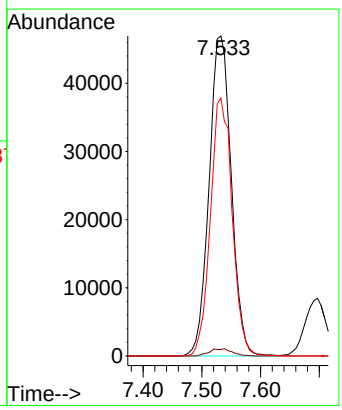


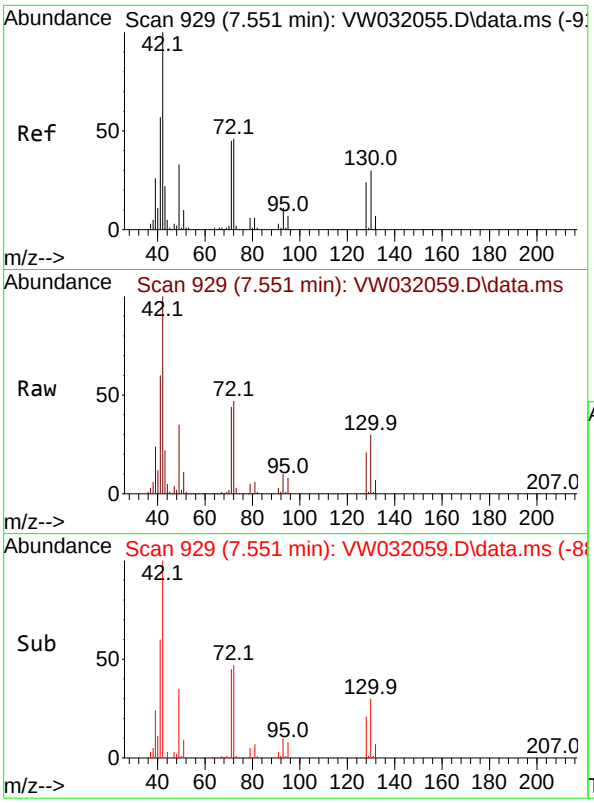


#28
Bromochloromethane
Concen: 50.315 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 49 Resp: 123268

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	79.0	61.9	92.9

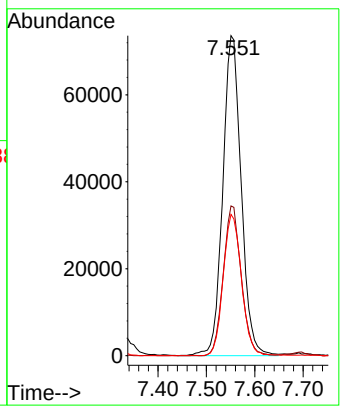




#29
Tetrahydrofuran
Concen: 274.235 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 42 Resp: 19490

Ion	Ratio	Lower	Upper
42	100		
72	45.7	36.6	55.0
71	43.9	34.7	52.1



Instrument :
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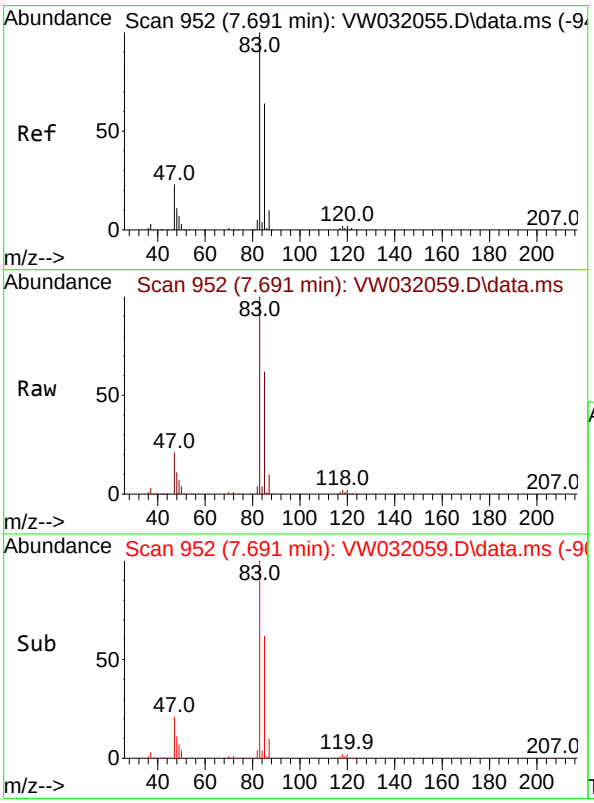
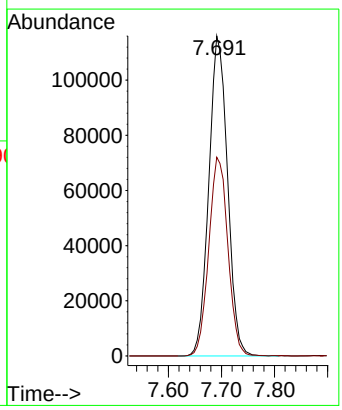
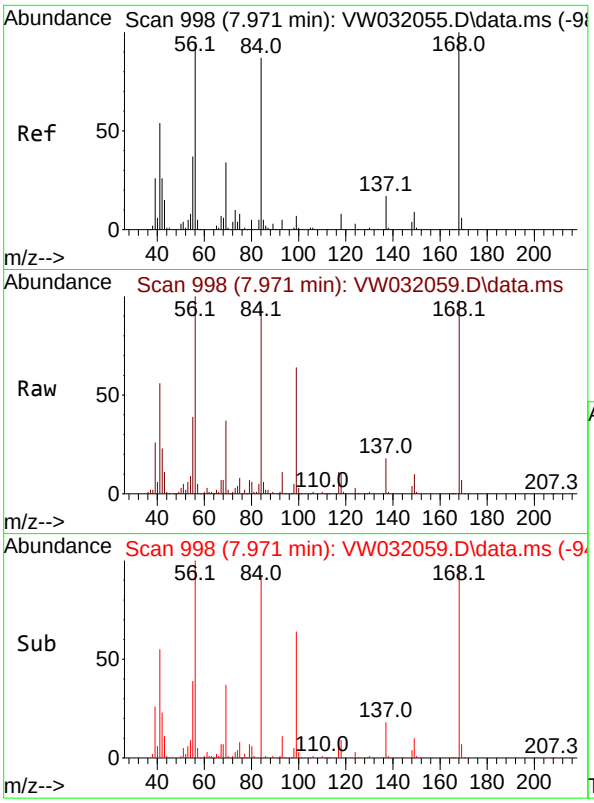


#30
Chloroform
Concen: 49.803 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 284250

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.0	76.4

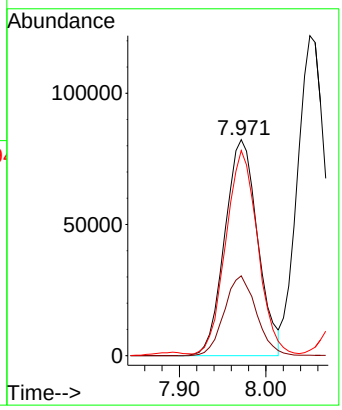




#31
Cyclohexane
Concen: 46.646 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 56 Resp: 21771

Ion	Ratio	Lower	Upper
56	100		
69	36.9	28.6	42.8
84	93.6	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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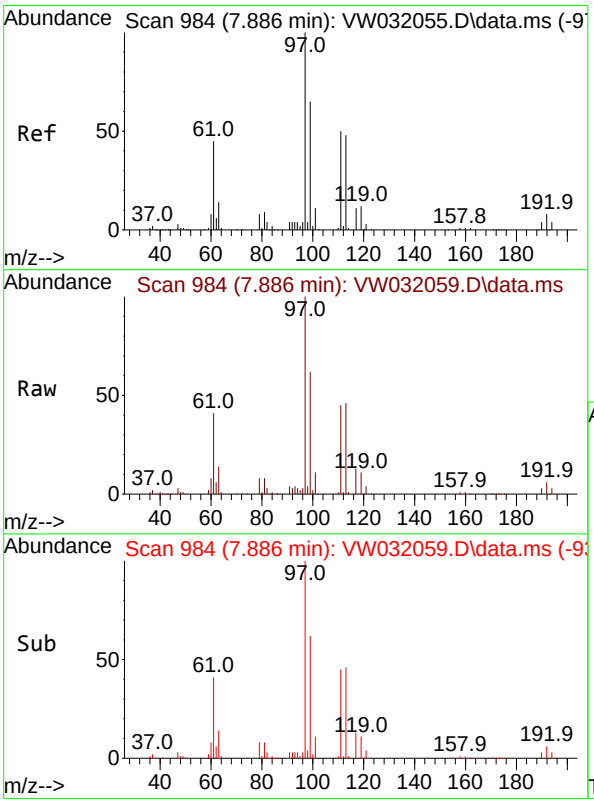
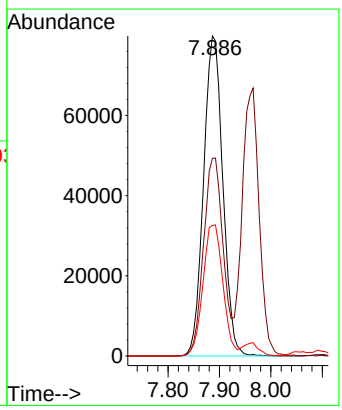
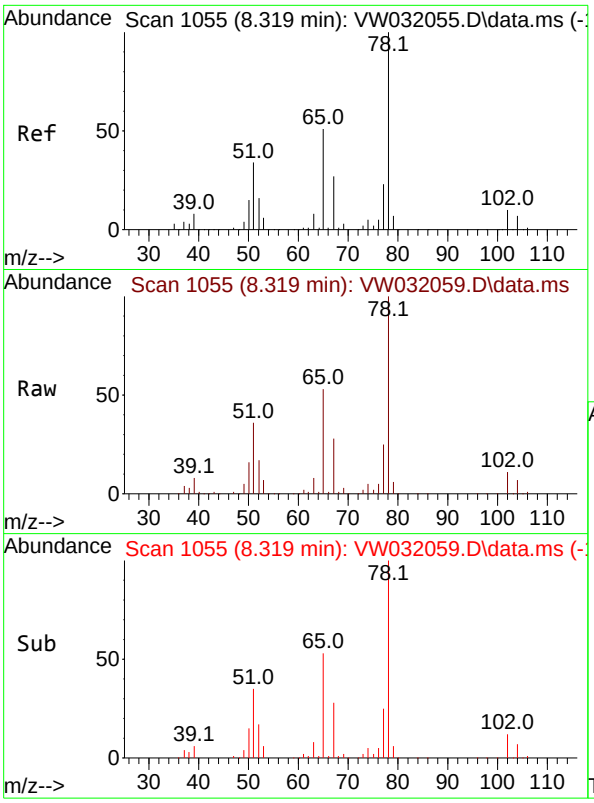


#32
1,1,1-Trichloroethane
Concen: 50.108 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 97 Resp: 207733

Ion	Ratio	Lower	Upper
97	100		
99	62.3	51.8	77.8
61	42.4	35.9	53.9

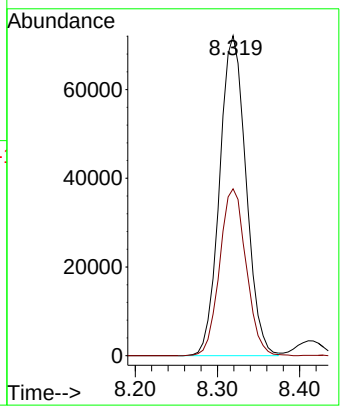




#33
1,2-Dichloroethane-d4
Concen: 49.205 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 65 Resp: 16115

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
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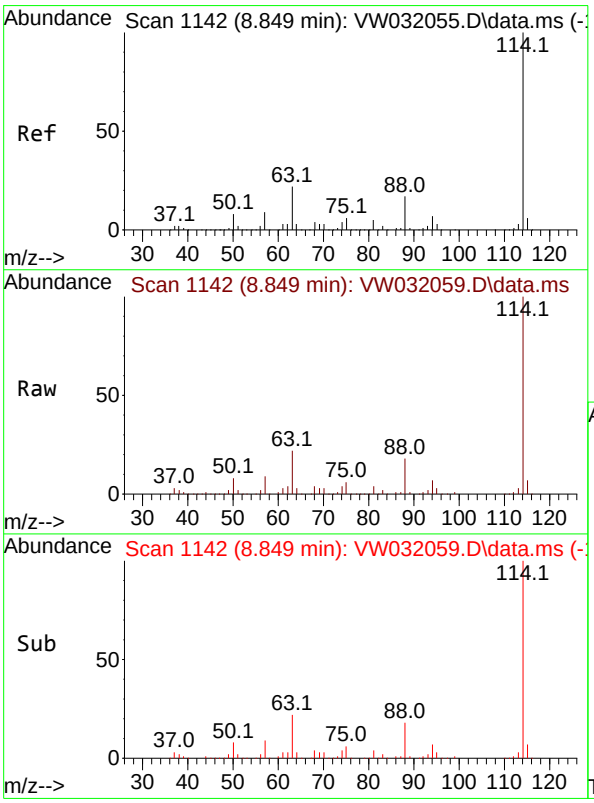
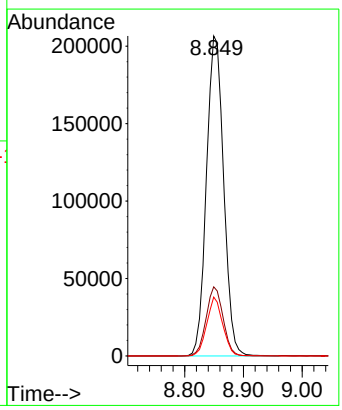
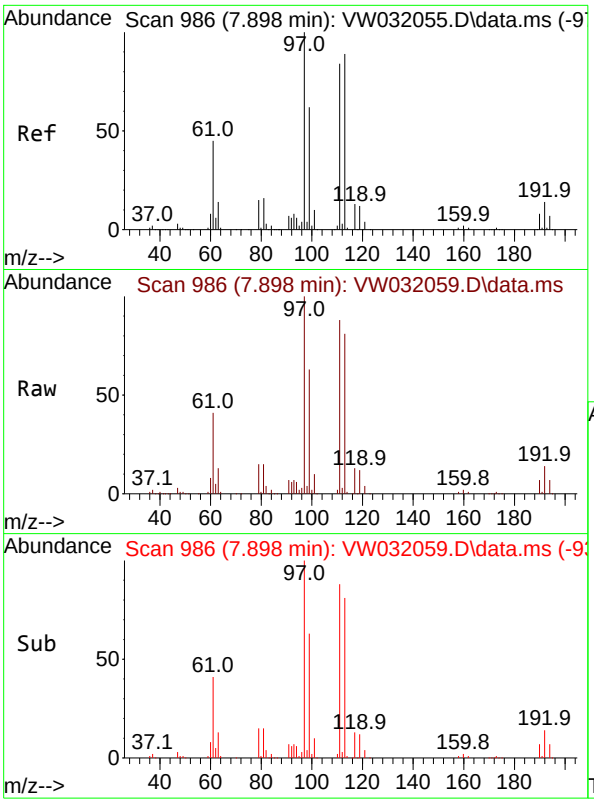


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:114 Resp: 420434

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.0
88	18.4	0.0	33.8

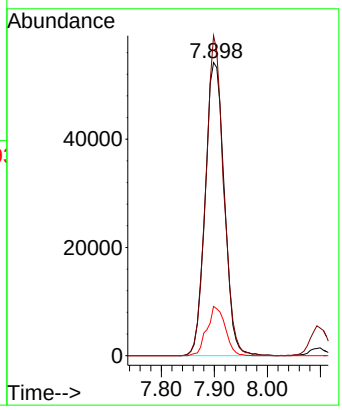




#35
Dibromofluoromethane
Concen: 49.939 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:113 Resp: 13564

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.1	120.1
192	16.1	13.1	19.7



Instrument :
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ClientSampleId :
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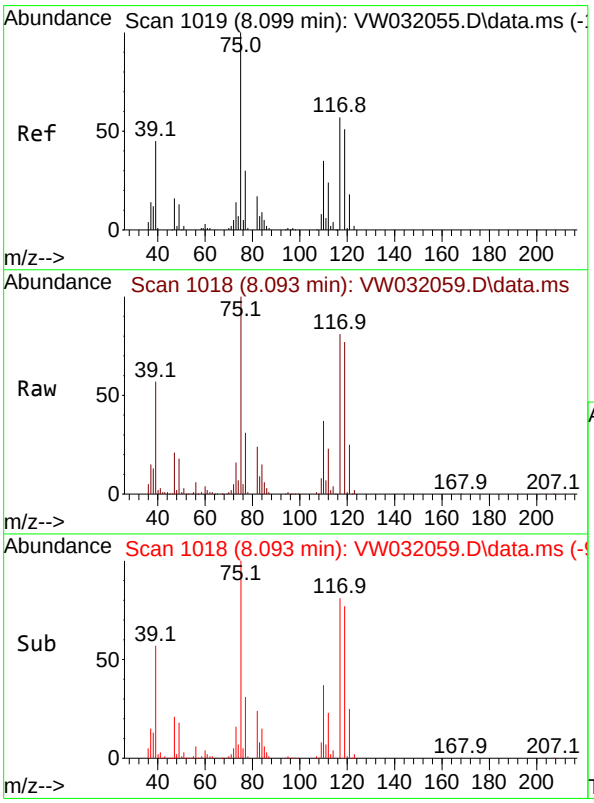
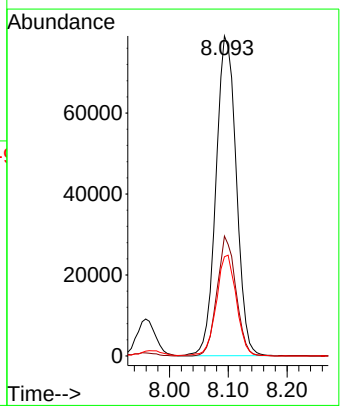
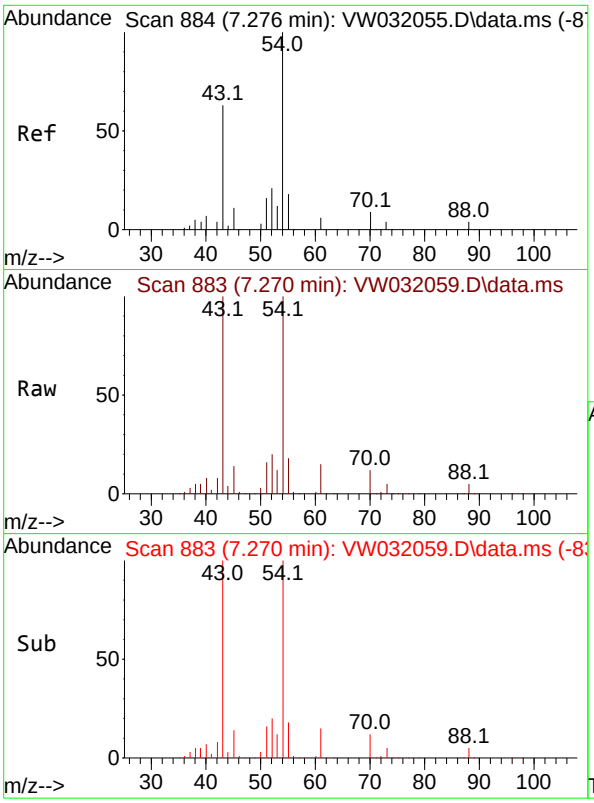


#36
1,1-Dichloropropene
Concen: 49.574 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 189820

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.4	52.2
77	31.3	24.7	37.1





#37
Ethyl Acetate
Concen: 55.214 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 12451

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	11.3	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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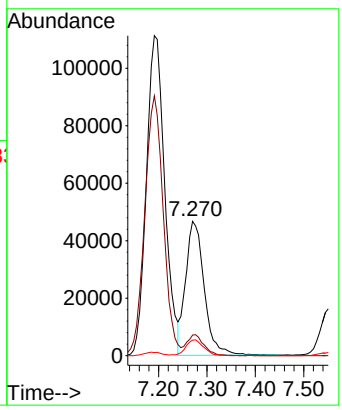
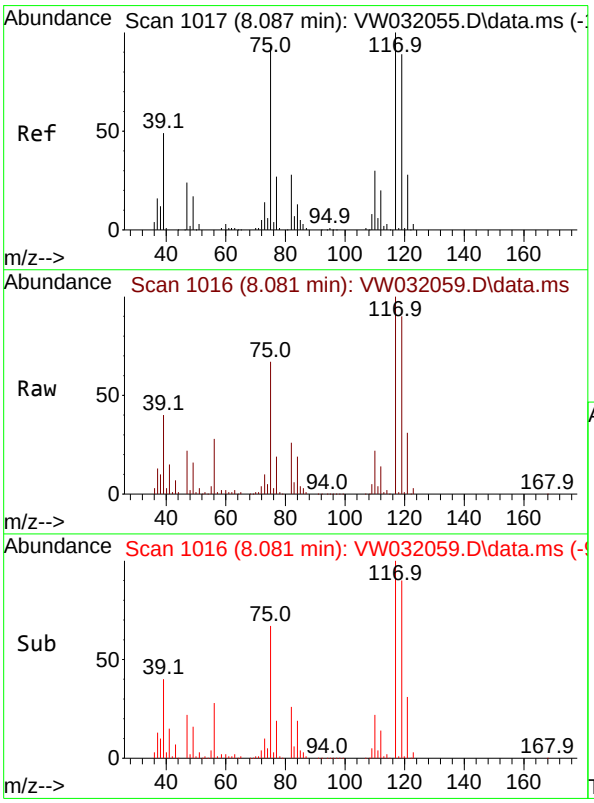
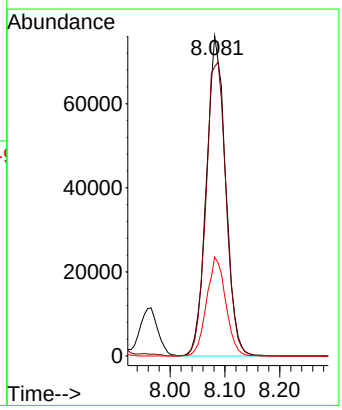


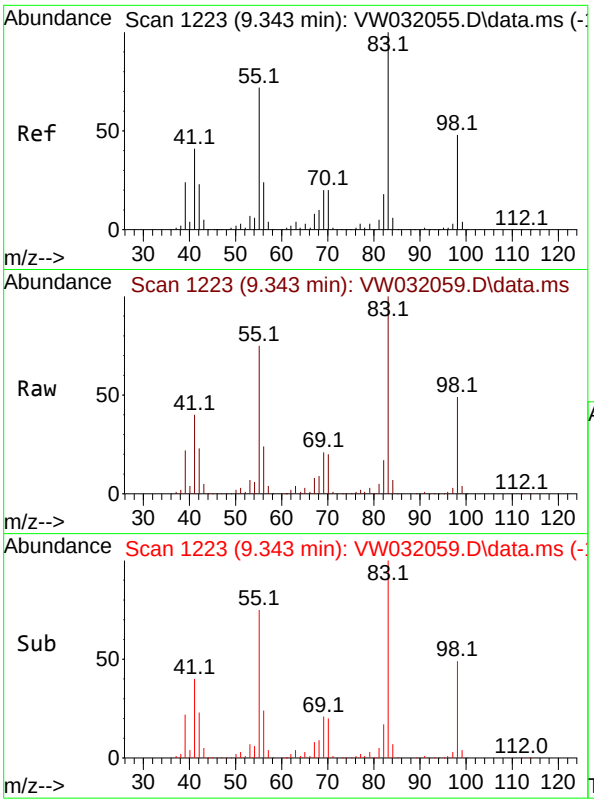


#38
Carbon Tetrachloride
Concen: 50.015 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 184816

Ion	Ratio	Lower	Upper
117	100		
119	90.4	71.4	107.2
121	30.9	22.3	33.5

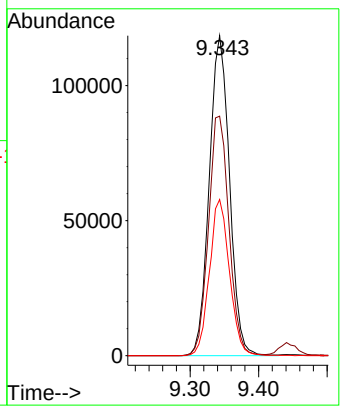




#39
Methylcyclohexane
Concen: 52.181 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 24353

Ion	Ratio	Lower	Upper
83	100		
55	74.9	57.9	86.9
98	48.8	38.3	57.5



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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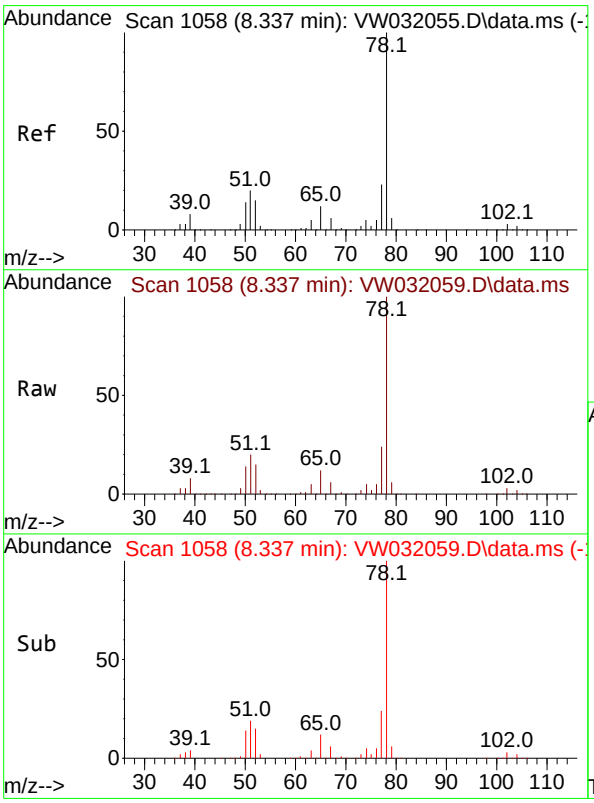
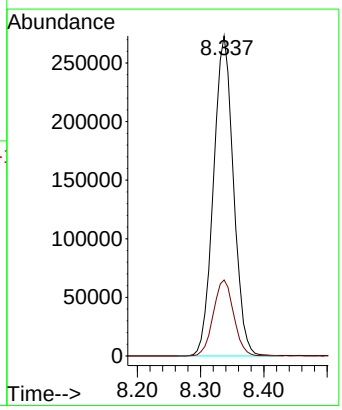
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

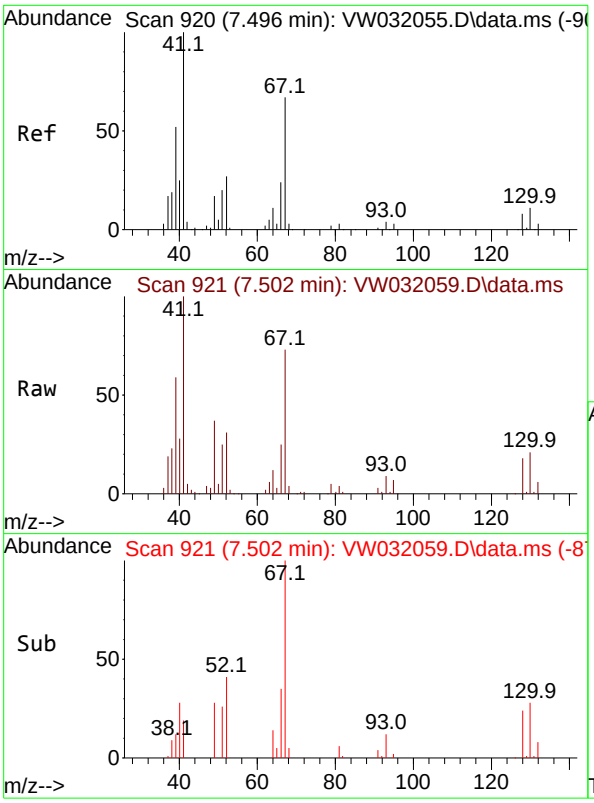


#40
Benzene
Concen: 50.272 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 78 Resp: 598350

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.4	27.6

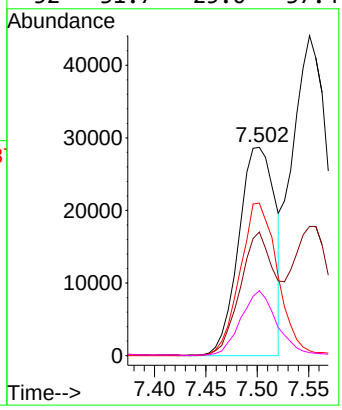




#41
Methacrylonitrile
Concen: 55.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 7060

Ion	Ratio	Lower	Upper
41	100		
39	60.0	42.6	63.8
67	76.4	61.0	91.4
52	31.7	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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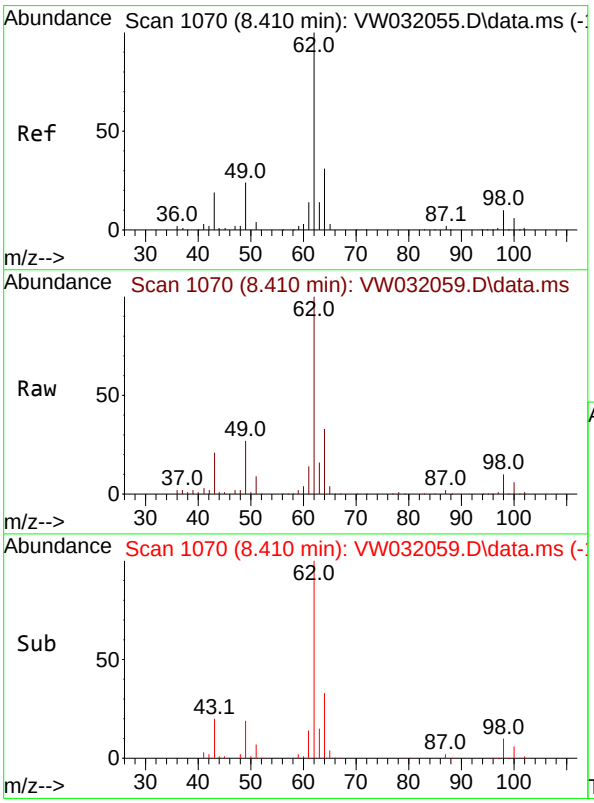
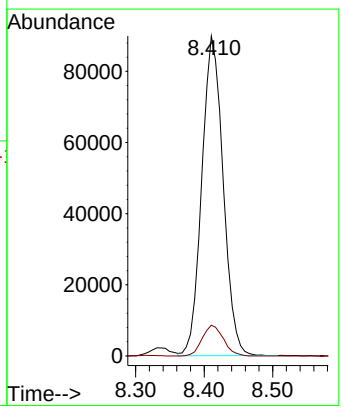
Supervised By :Semsettin Yesilyurt 08/12/2025

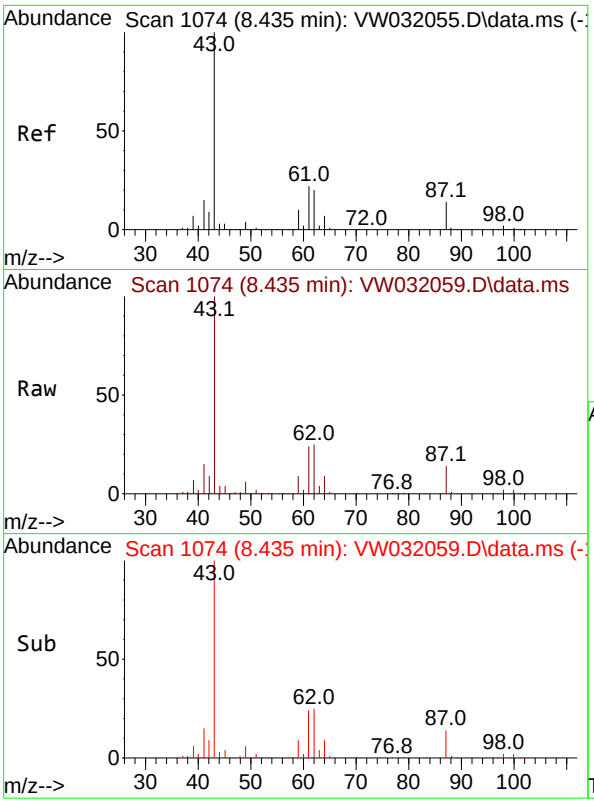


#42
1,2-Dichloroethane
Concen: 51.154 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 194825

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8

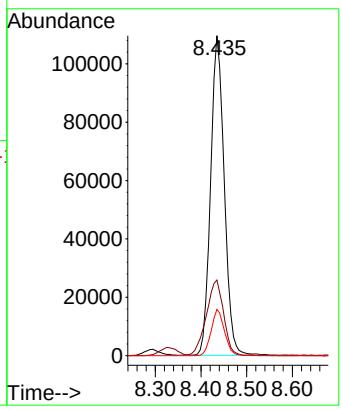




#43
Isopropyl Acetate
Concen: 54.846 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 22756

Ion	Ratio	Lower	Upper
43	100		
61	29.6	23.8	35.8
87	14.1	11.7	17.5



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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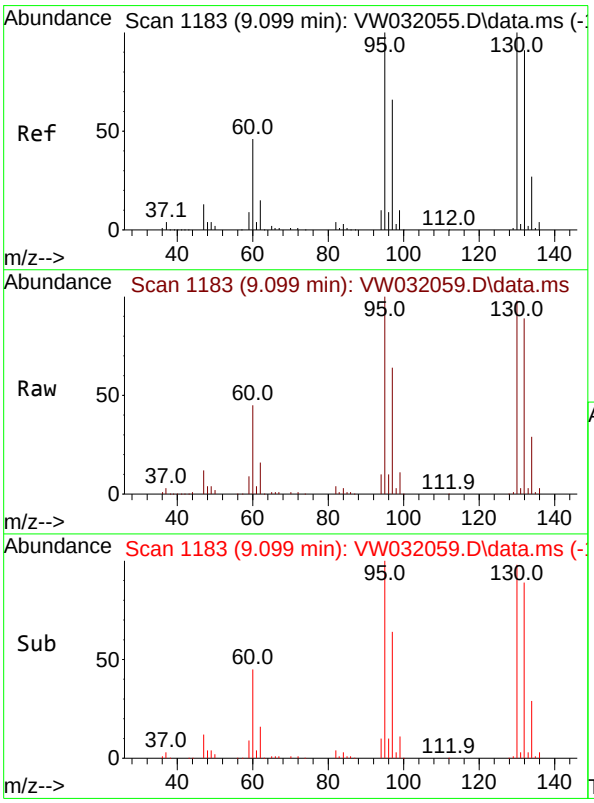
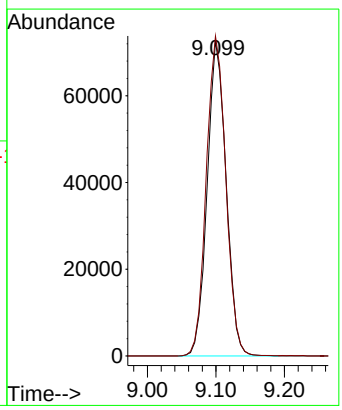
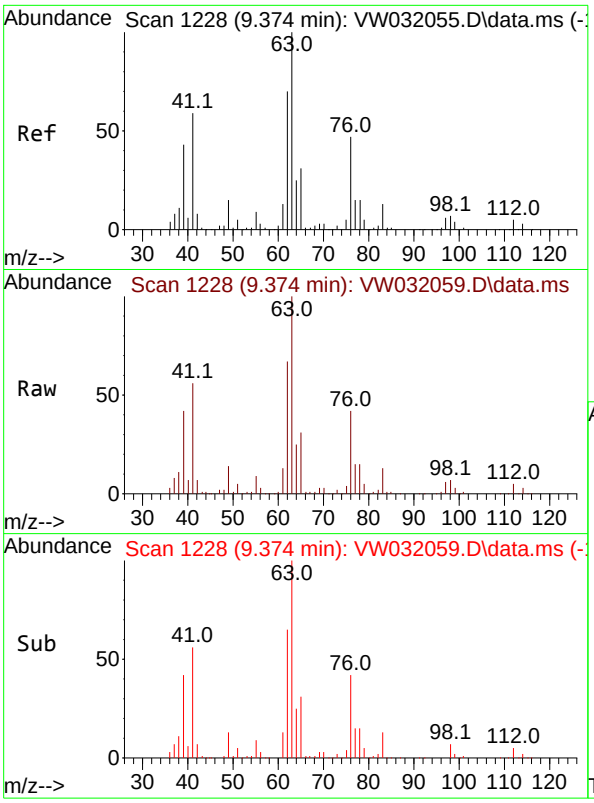


#44
Trichloroethene
Concen: 49.175 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:130 Resp: 139383

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	200.6

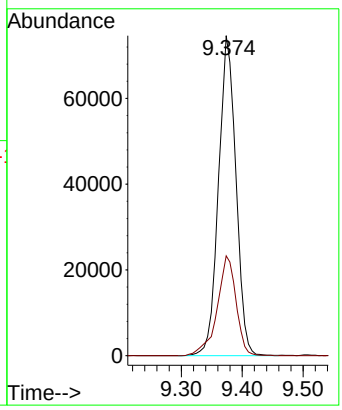




#45
1,2-Dichloropropane
Concen: 51.403 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 14780

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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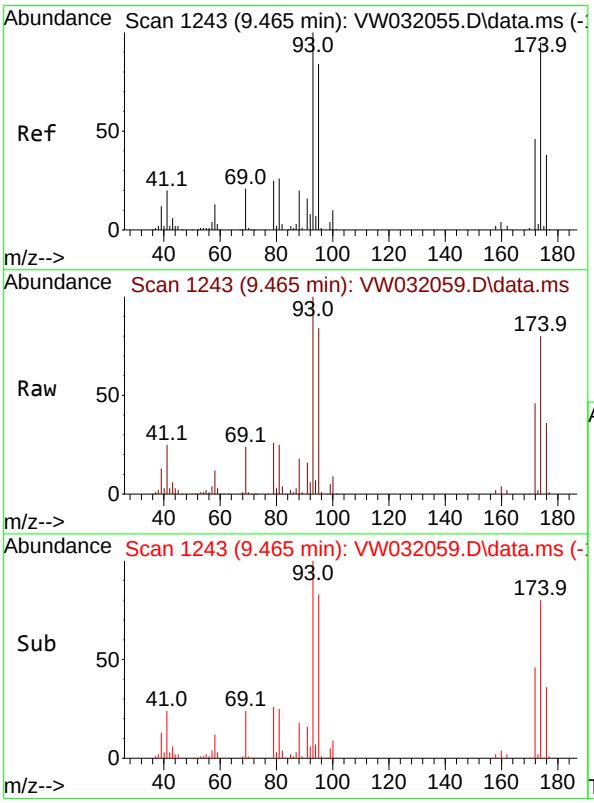
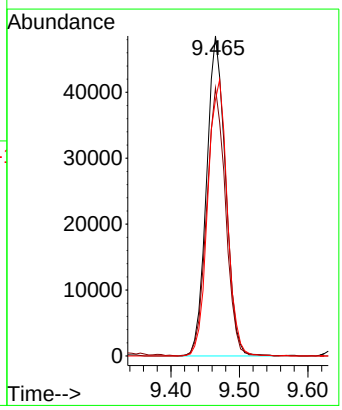
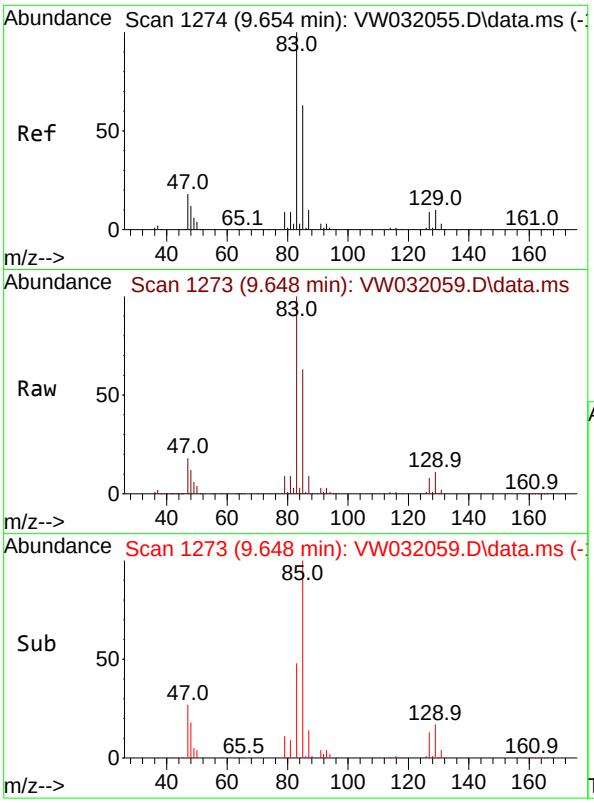


#46
Dibromomethane
Concen: 50.497 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 93 Resp: 93713

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.3	97.9
174	88.0	68.6	102.8

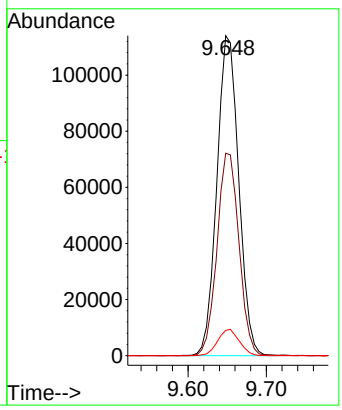




#47
Bromodichloromethane
Concen: 51.775 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 22140

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.6	75.8
127	7.9	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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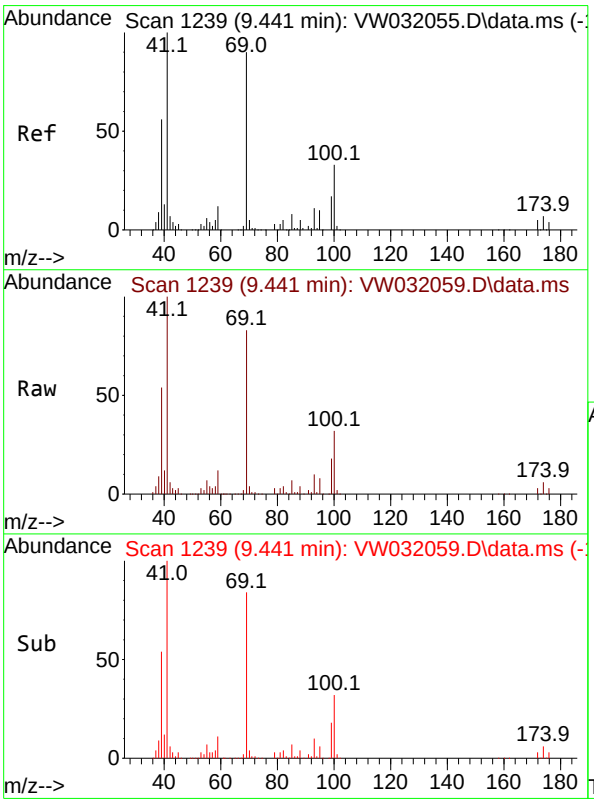
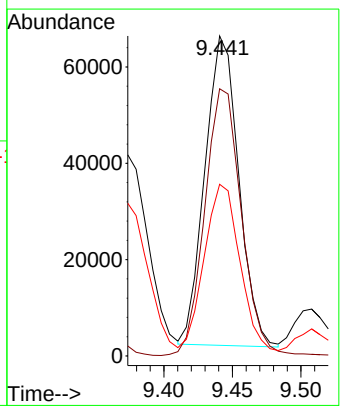
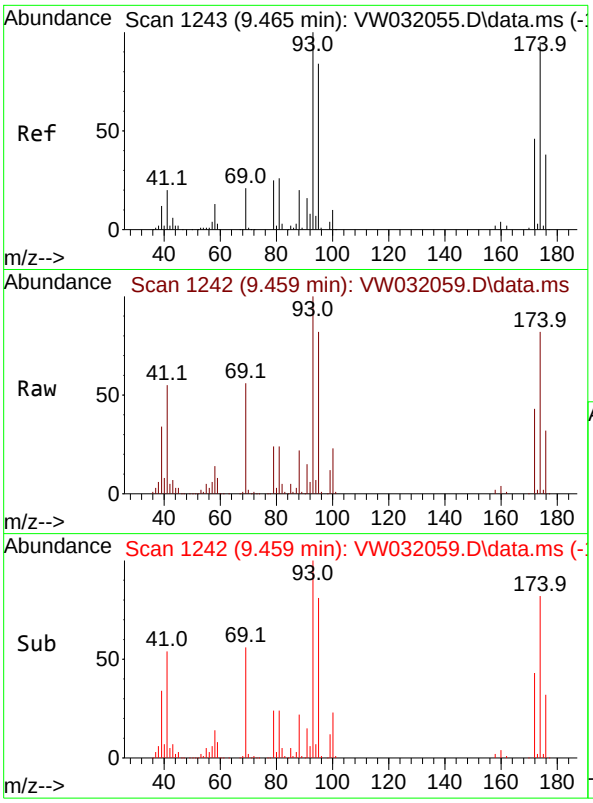


#48
Methyl methacrylate
Concen: 55.048 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 110265

Ion	Ratio	Lower	Upper
41	100		
69	94.5	73.0	109.6
39	56.0	45.0	67.4

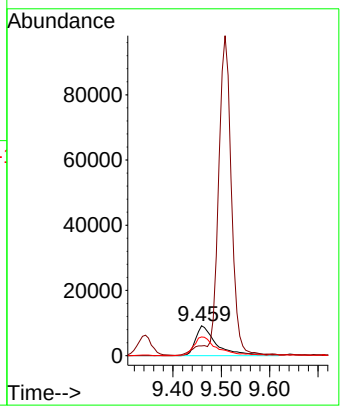




#49
1,4-Dioxane
Concen: 1155.151 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 88 Resp: 2771

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8
58	70.8	60.4	90.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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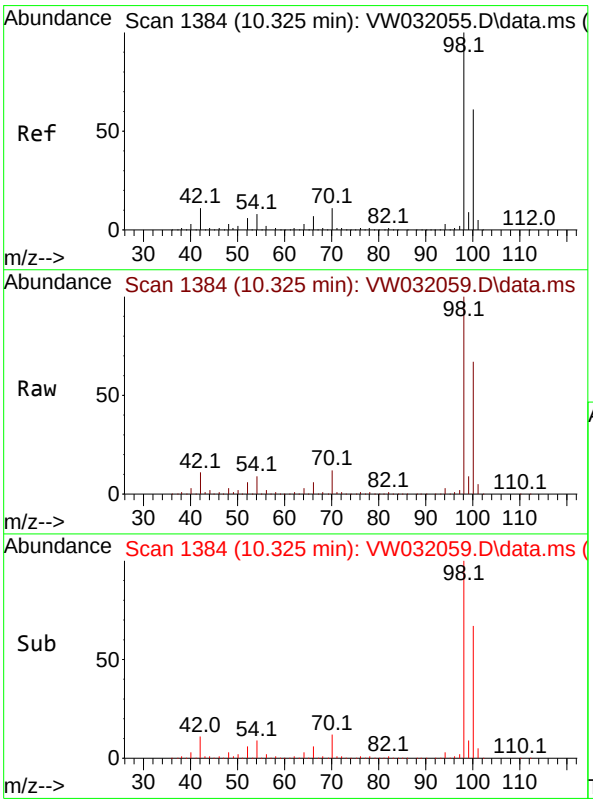
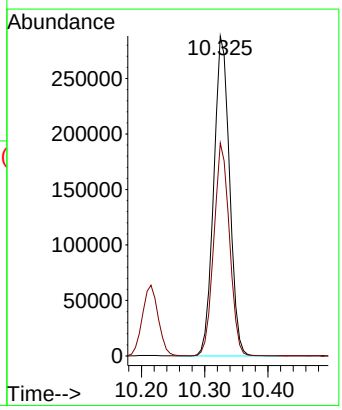
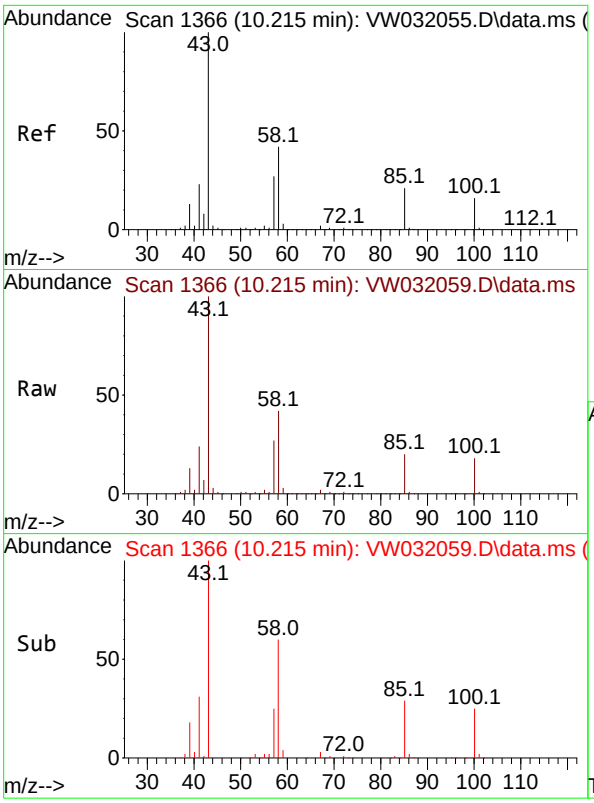


#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 98 Resp: 499377

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 275.585 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 64539

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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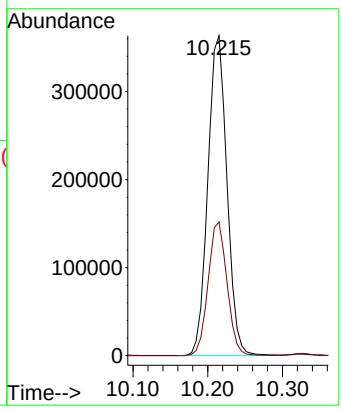
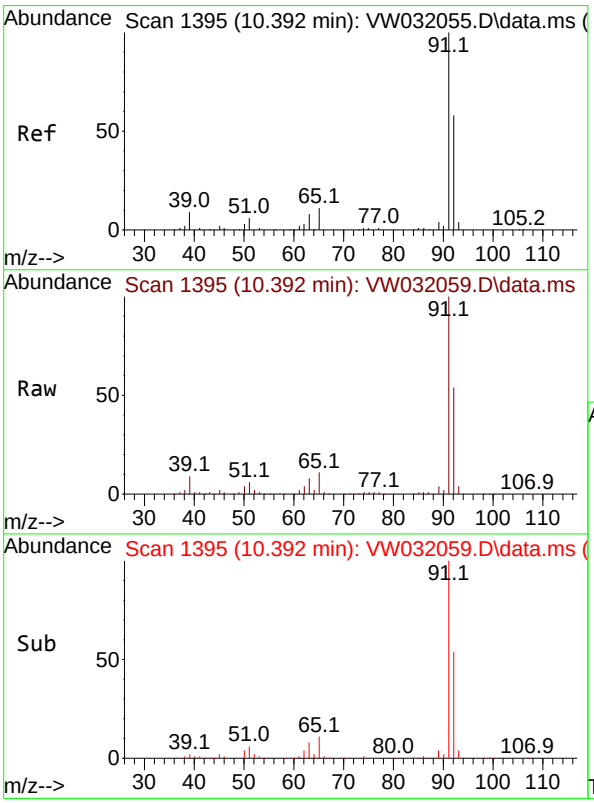
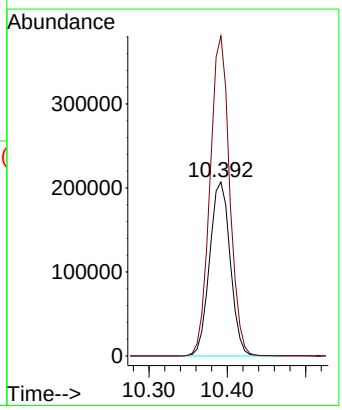


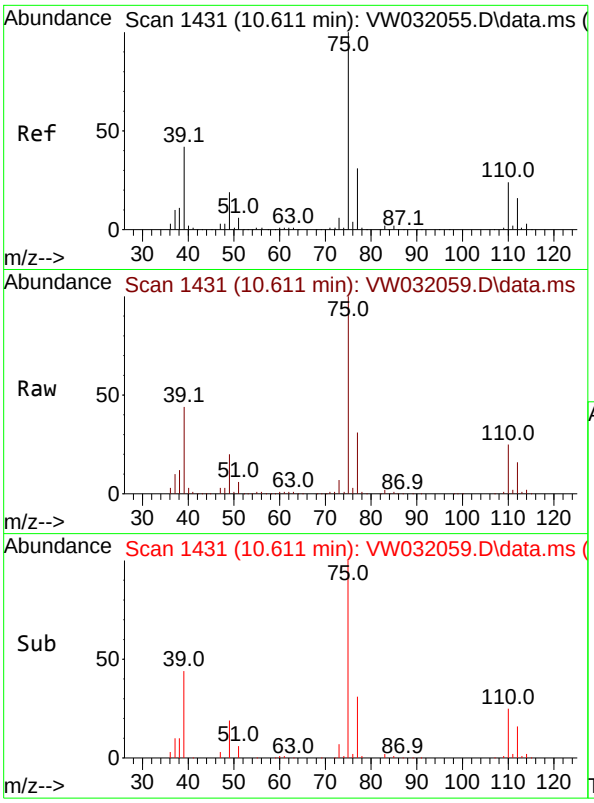


#52
Toluene
Concen: 50.410 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 92 Resp: 377919

Ion	Ratio	Lower	Upper
92	100		
91	175.7	136.3	204.5





#53
t-1,3-Dichloropropene
Concen: 53.108 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 21277

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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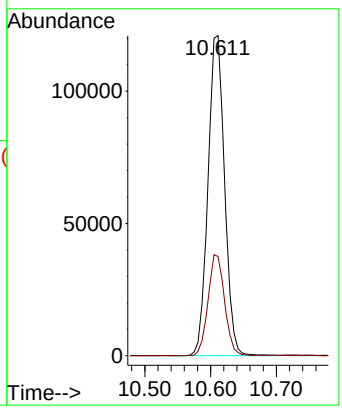
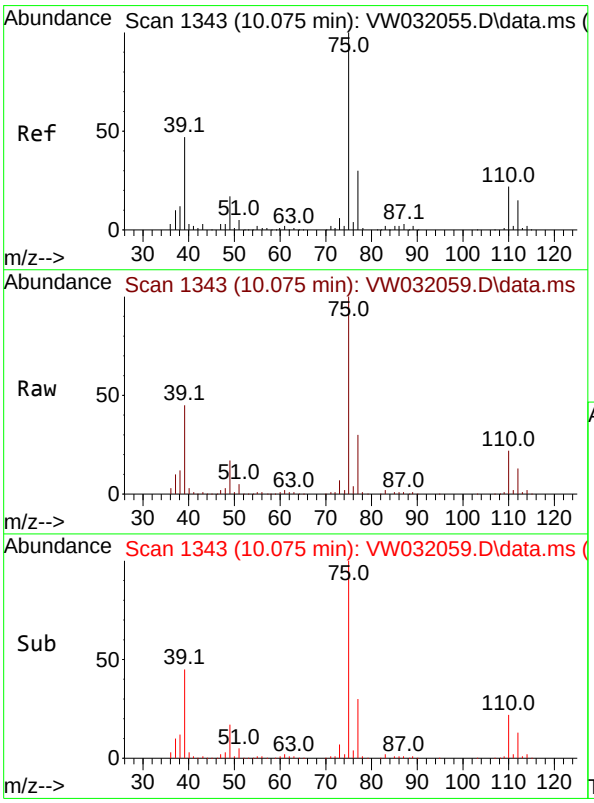
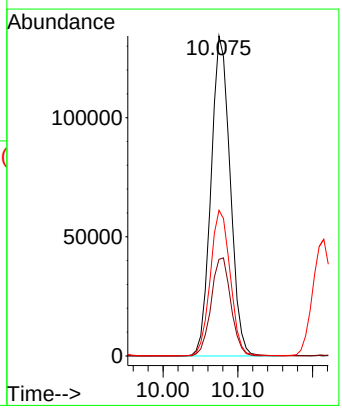


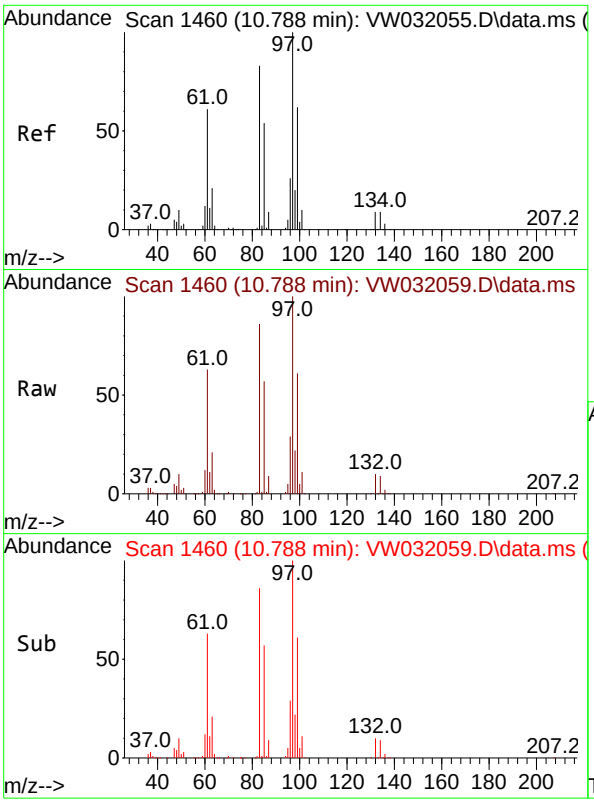


#54
cis-1,3-Dichloropropene
Concen: 52.577 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 238970

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.0	36.0
39	45.4	37.8	56.8

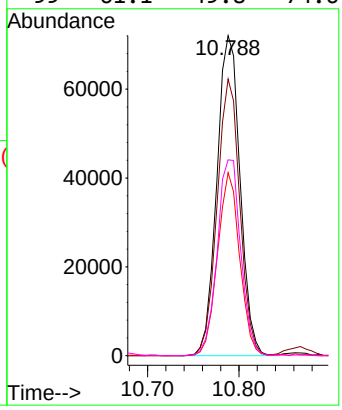




#55
1,1,2-Trichloroethane
Concen: 51.716 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 97 Resp: 12753

Ion	Ratio	Lower	Upper
97	100		
83	86.4	66.4	99.6
85	57.2	43.1	64.7
99	61.1	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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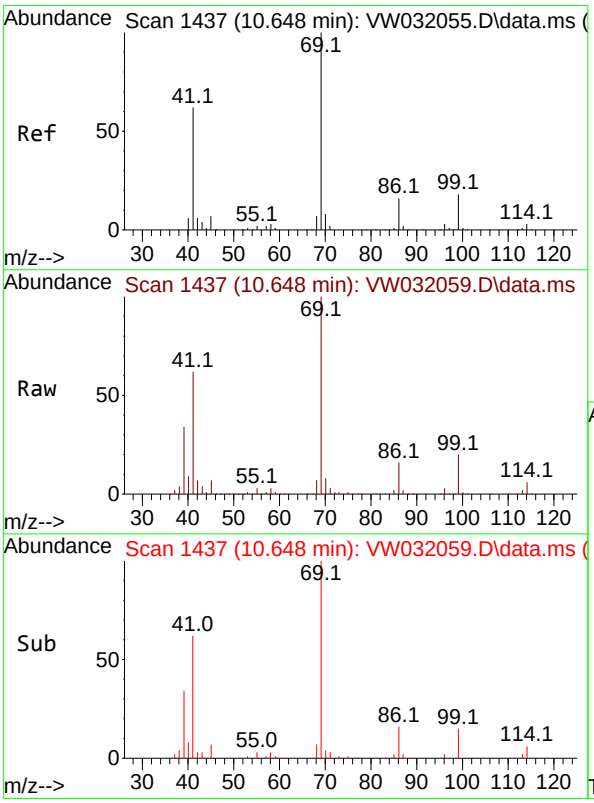
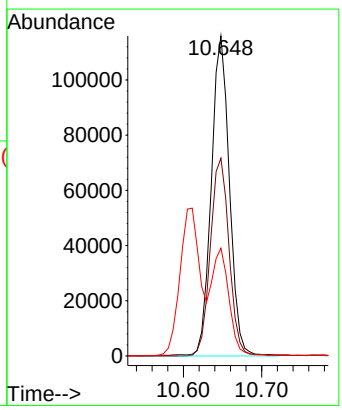
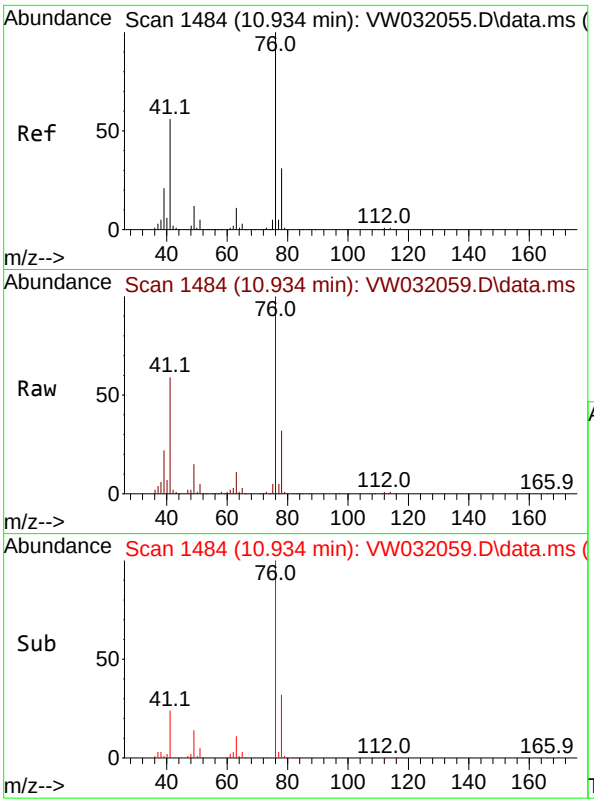


#56
Ethyl methacrylate
Concen: 56.374 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 69 Resp: 186039

Ion	Ratio	Lower	Upper
69	100		
41	64.4	51.2	76.8
39	31.4	25.4	38.0

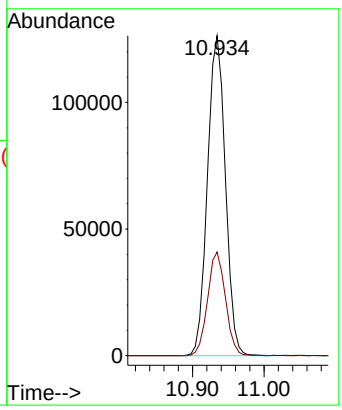




#57
1,3-Dichloropropane
Concen: 51.186 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 76 Resp: 22002

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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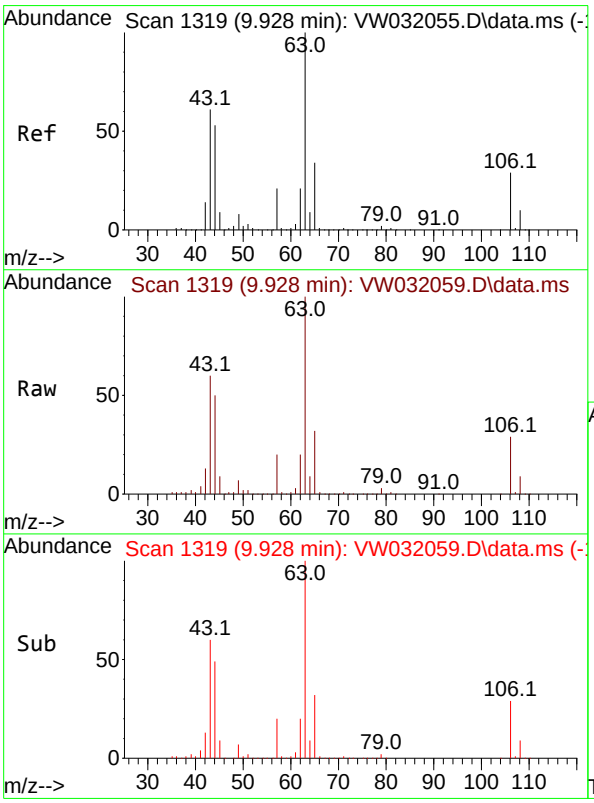
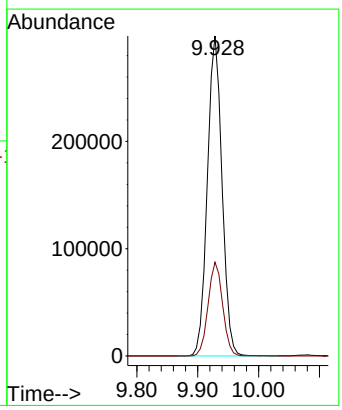
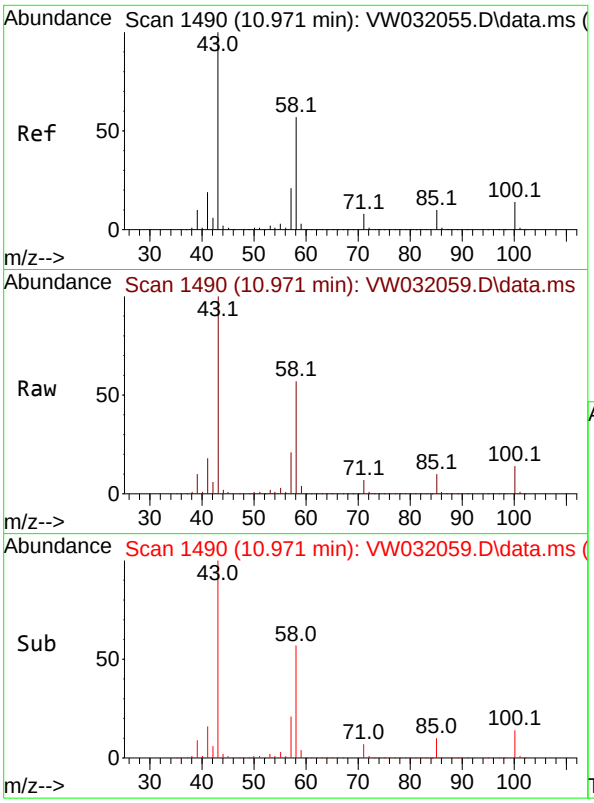


#58
2-Chloroethyl Vinyl ether
Concen: 272.893 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 498131

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3





#59
2-Hexanone
Concen: 281.817 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 45708

Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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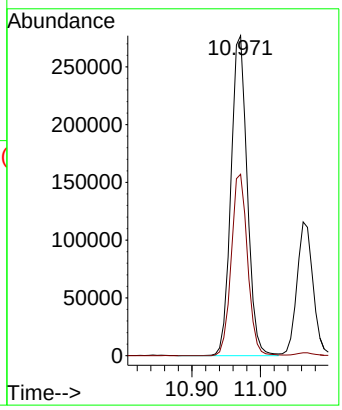
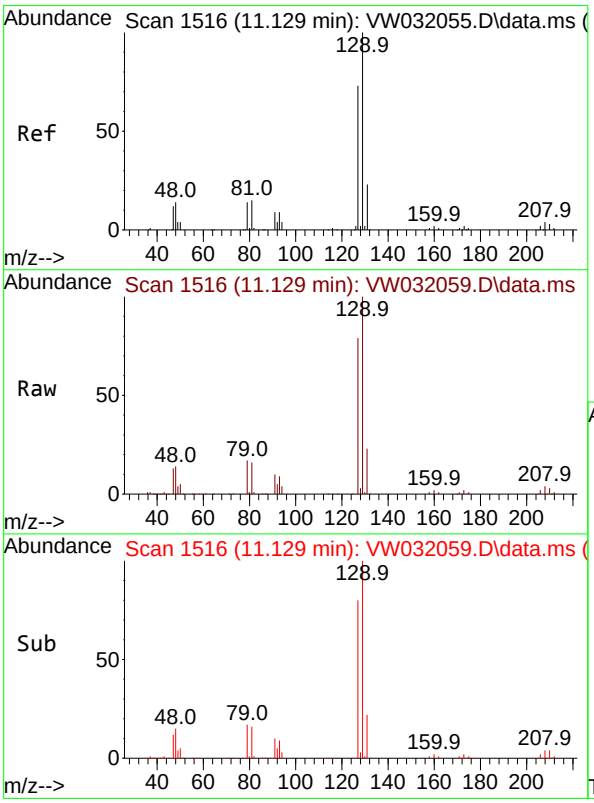
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

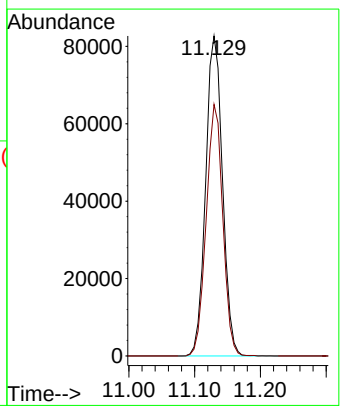


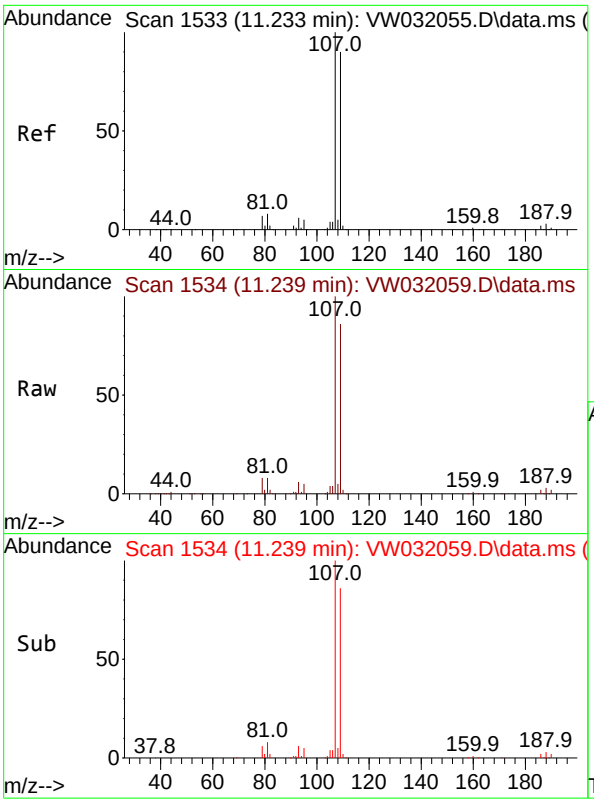


#60
Dibromochloromethane
Concen: 52.276 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:129 Resp: 147264

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.0	116.9

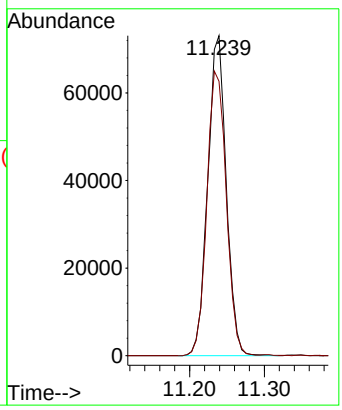




#61
1,2-Dibromoethane
Concen: 52.603 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:107 Resp: 12606

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
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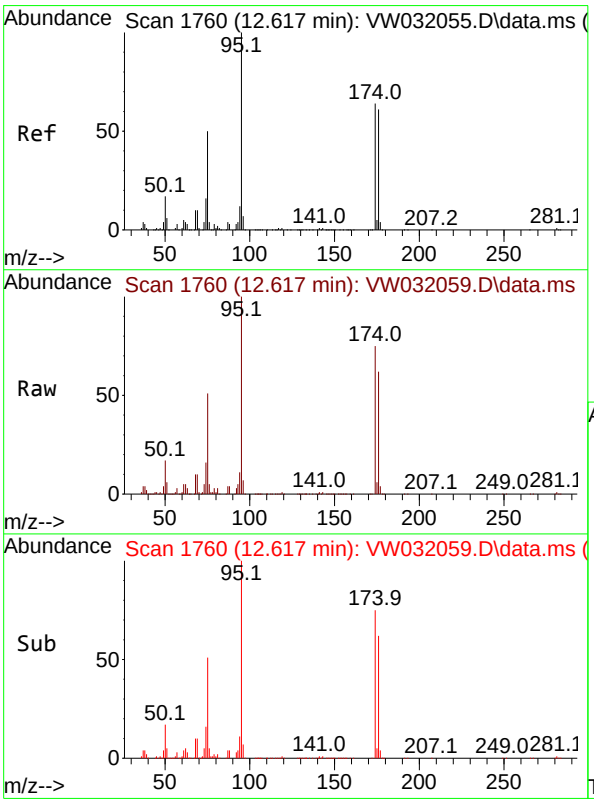
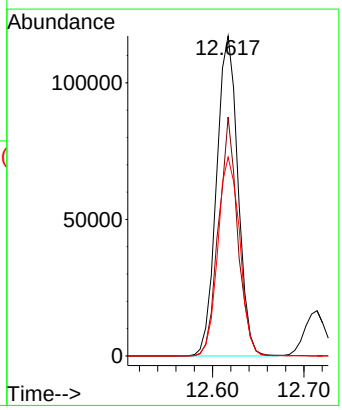
Supervised By :Semsettin Yesilyurt 08/12/2025

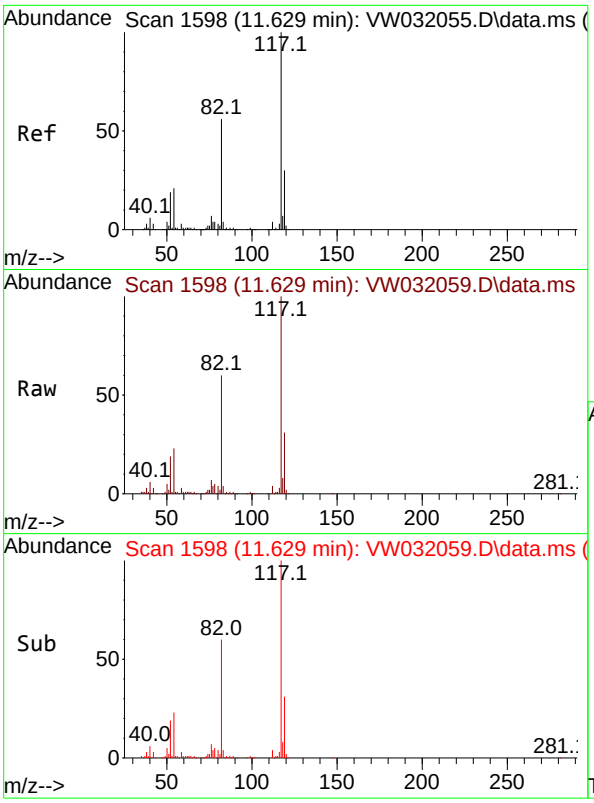


#62
4-Bromofluorobenzene
Concen: 51.460 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 95 Resp: 190514

Ion	Ratio	Lower	Upper
95	100		
174	66.7	0.0	129.0
176	63.5	0.0	124.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 38685

Ion	Ratio	Lower	Upper
117	100		
82	59.5	45.0	67.4
119	30.7	24.2	36.4

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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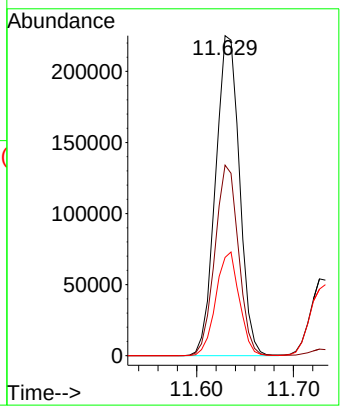
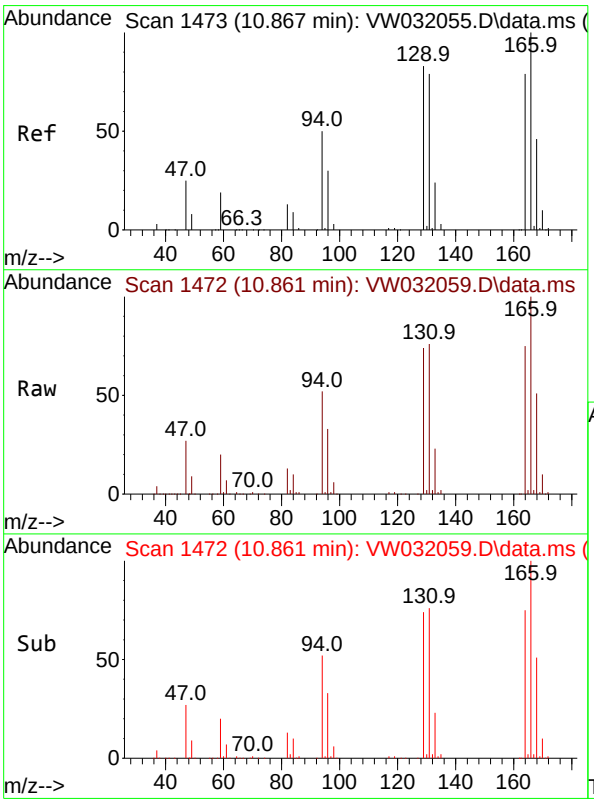
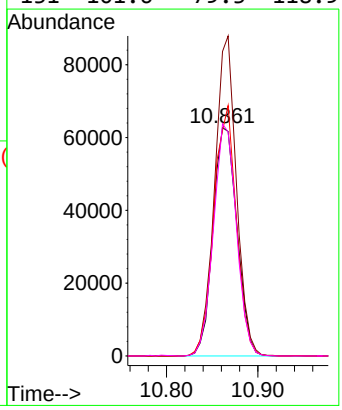


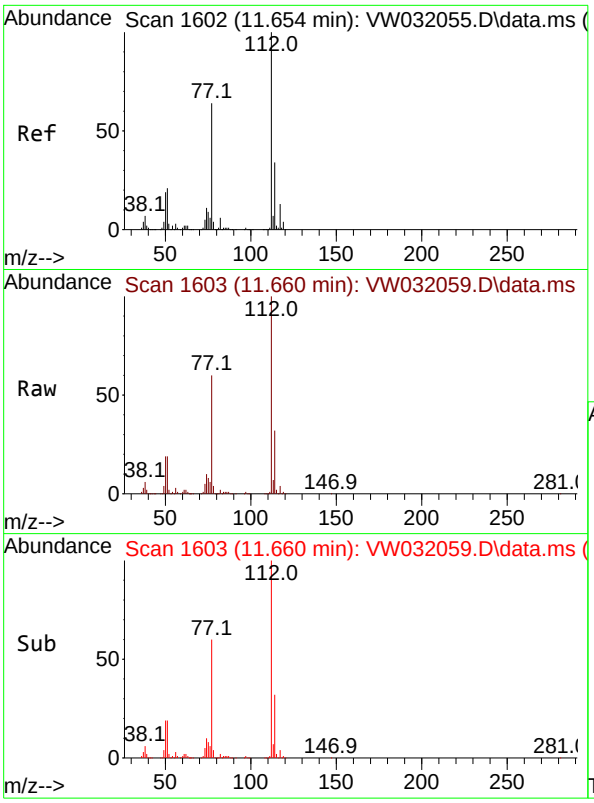


#64
Tetrachloroethene
Concen: 51.245 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:164 Resp: 114507

Ion	Ratio	Lower	Upper
164	100		
166	133.3	100.9	151.3
129	98.7	83.6	125.4
131	101.6	79.3	118.9

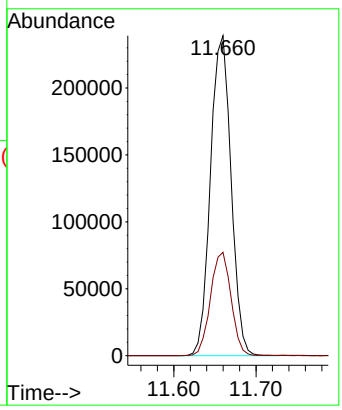




#65
Chlorobenzene
Concen: 49.461 ug/l
RT: 11.660 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:112 Resp: 41648

Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
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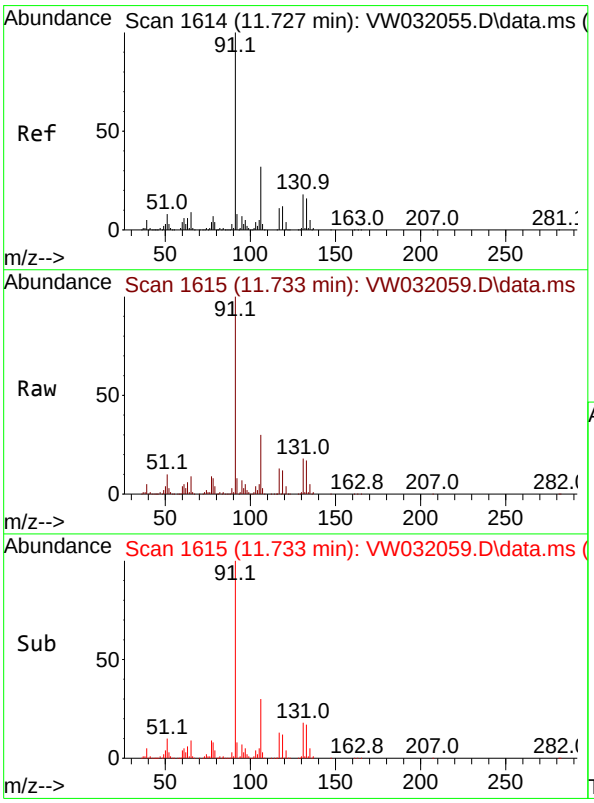
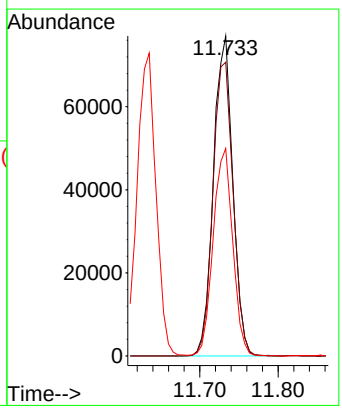
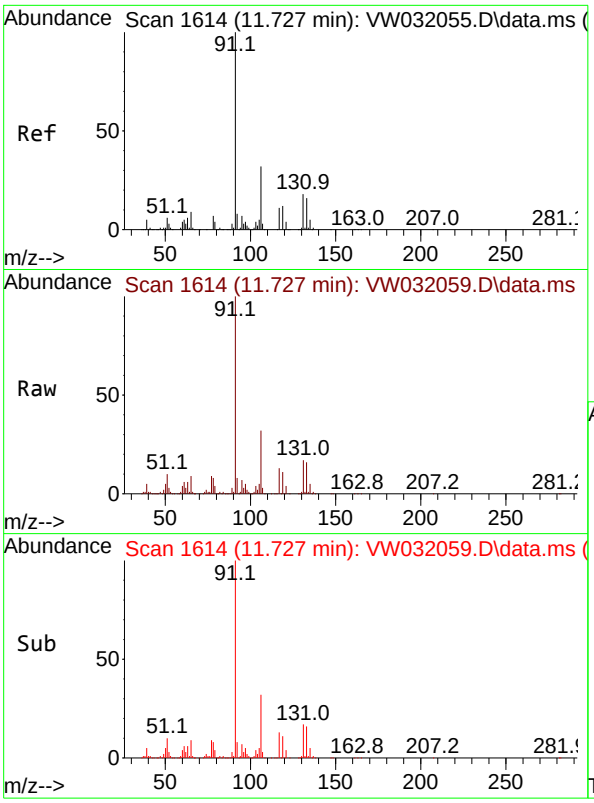


#66
1,1,1,2-Tetrachloroethane
Concen: 50.324 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:131 Resp: 132212

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	142.0
119	65.7	34.5	103.5





#67
Ethyl Benzene
Concen: 50.253 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 71675

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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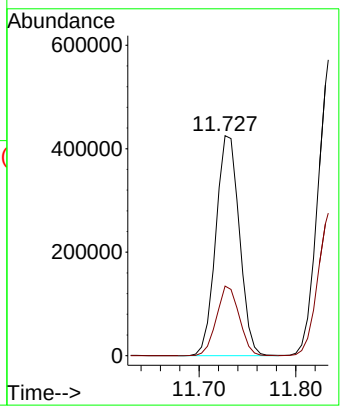
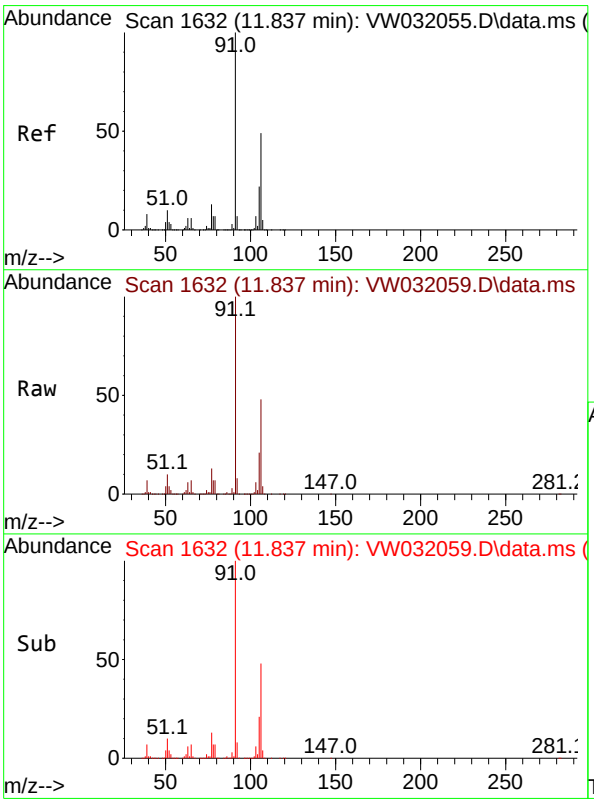
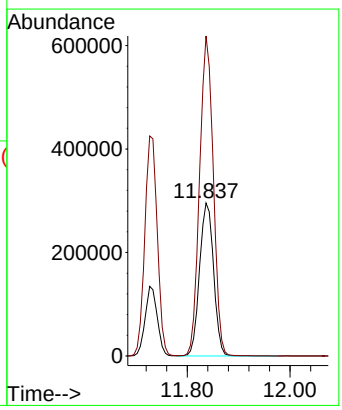


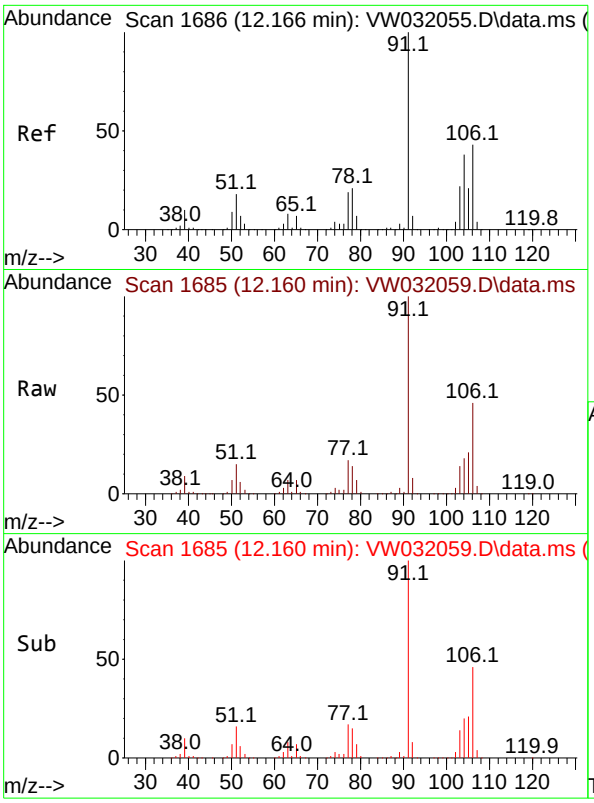


#68
m/p-Xylenes
Concen: 101.607 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 559216

Ion	Ratio	Lower	Upper
106	100		
91	204.9	162.2	243.2

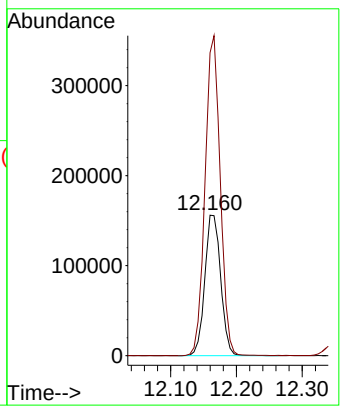




#69
o-Xylene
Concen: 51.416 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 26154

Ion	Ratio	Lower	Upper
106	100		
91	218.6	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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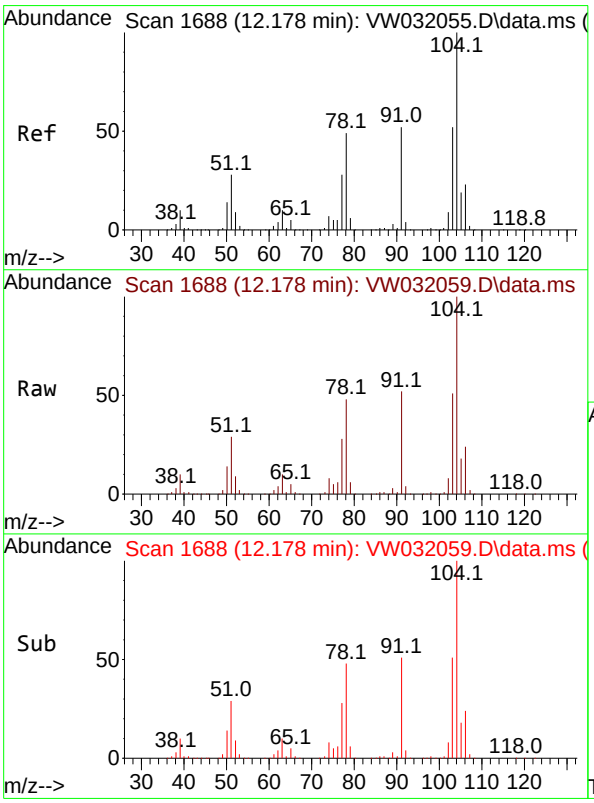
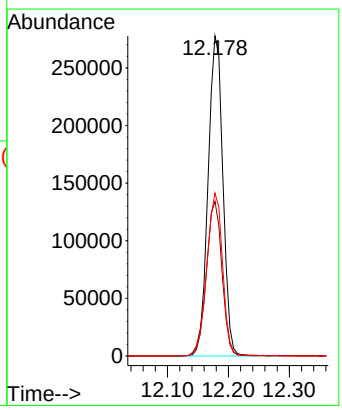
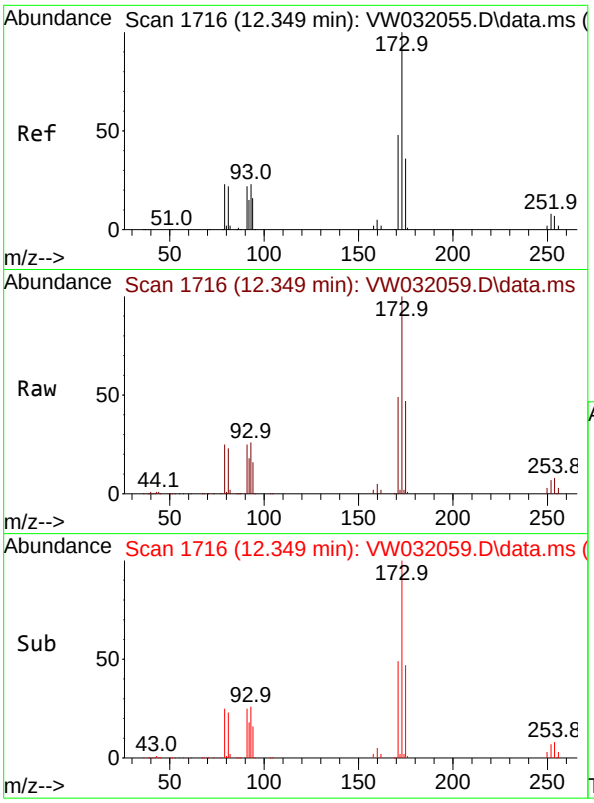


#70
Styrene
Concen: 51.833 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:104 Resp: 468335

Ion	Ratio	Lower	Upper
104	100		
78	51.2	41.2	61.8
103	53.9	43.8	65.8

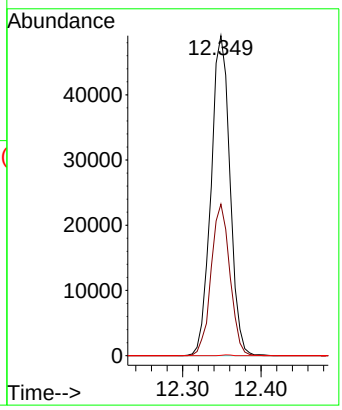




#71
Bromoform
Concen: 54.945 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:173 Resp: 8257

Ion	Ratio	Lower	Upper
173	100		
175	46.9	22.9	68.7
254	0.1	0.0	0.0#



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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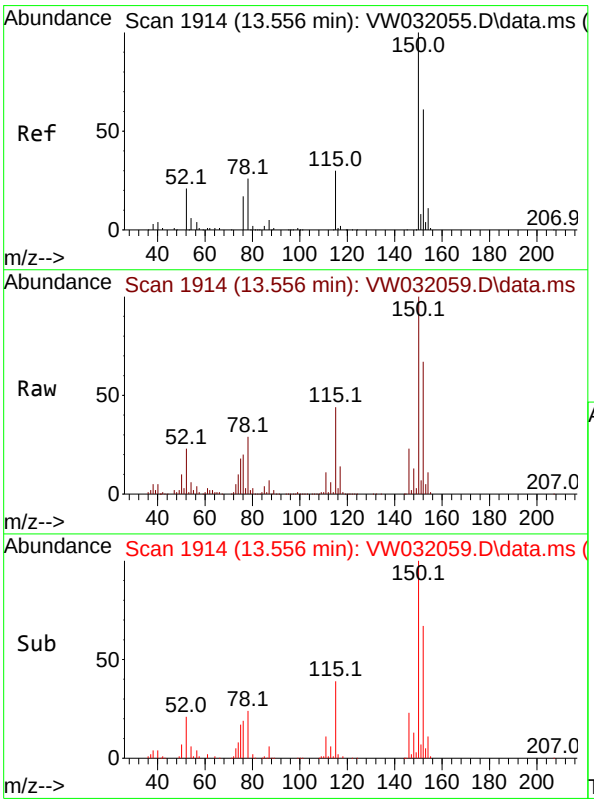
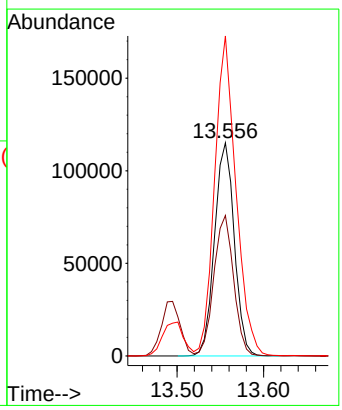
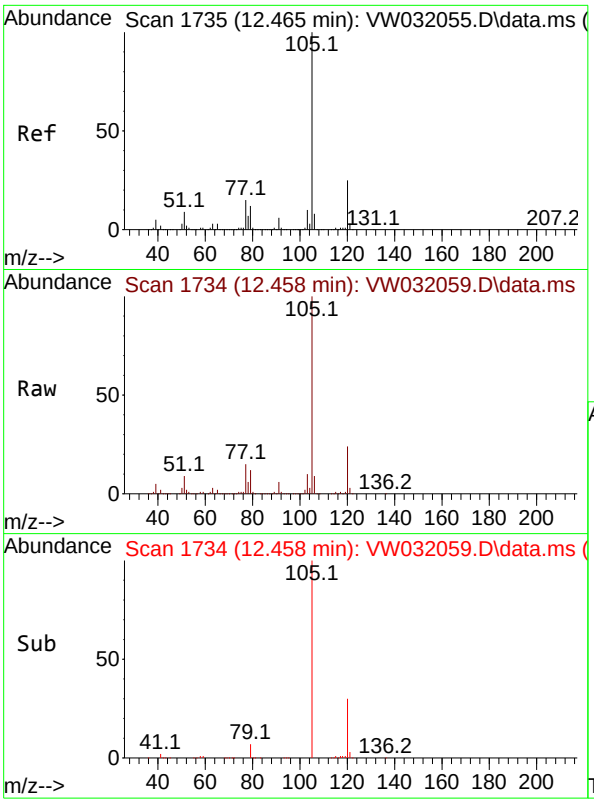


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:152 Resp: 182577

Ion	Ratio	Lower	Upper
152	100		
115	65.8	32.6	97.8
150	162.0	0.0	359.4





#73
Isopropylbenzene
Concen: 52.571 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 67077

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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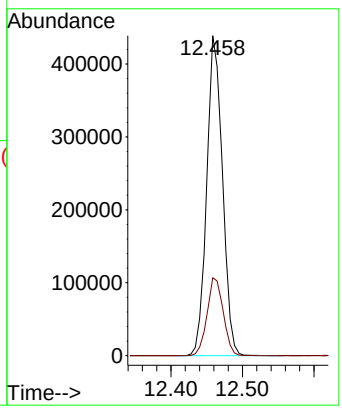
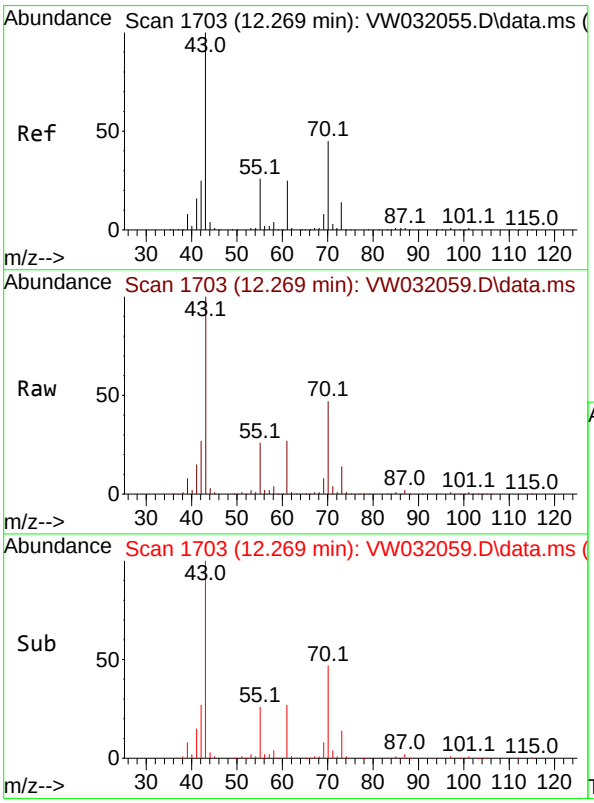
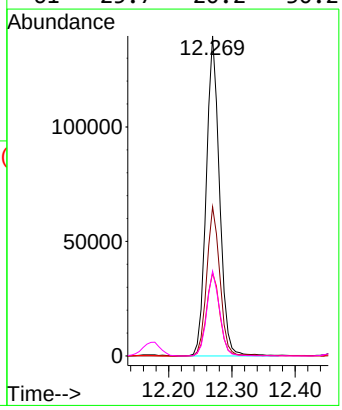


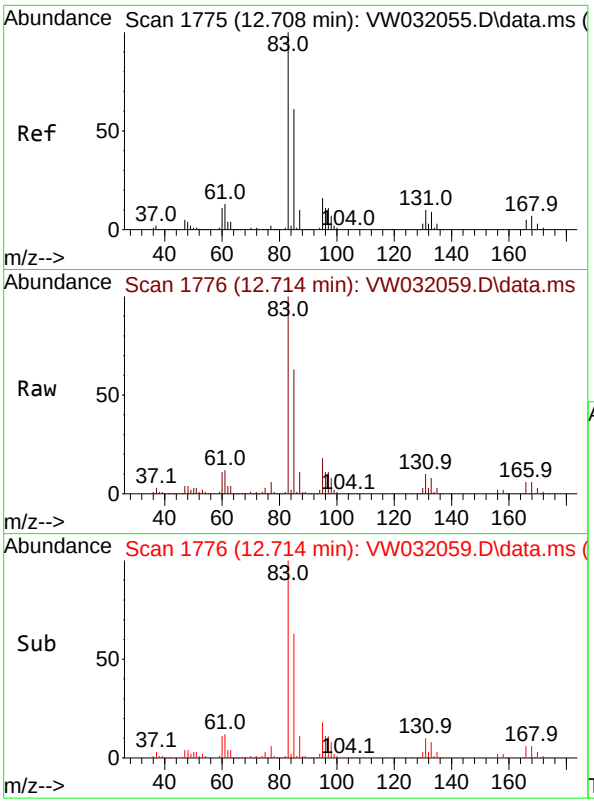


#74
N-amyl acetate
Concen: 55.682 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 203837

Ion	Ratio	Lower	Upper
43	100		
70	46.3	37.0	55.4
55	26.5	21.1	31.7
61	25.7	20.2	30.2

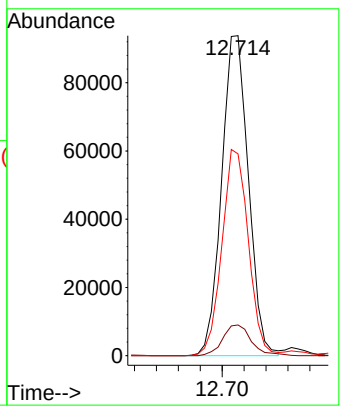




#75
1,1,2,2-Tetrachloroethane
Concen: 52.514 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 15909

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	63.5	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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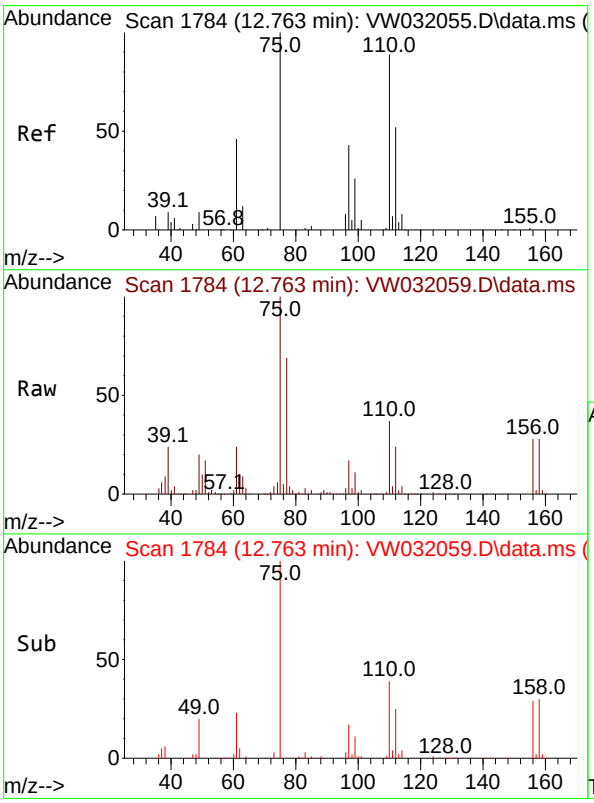
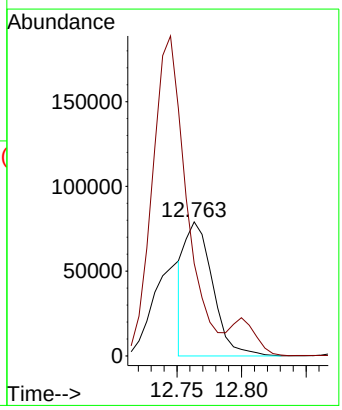
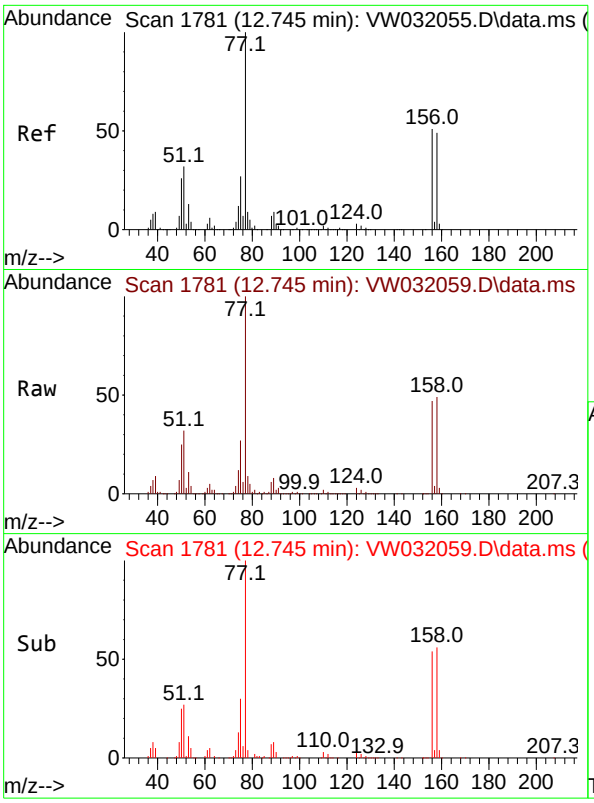


#76
1,2,3-Trichloropropane
Concen: 48.091 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 119168

Ion	Ratio	Lower	Upper
75	100		
77	294.4	123.5	370.5

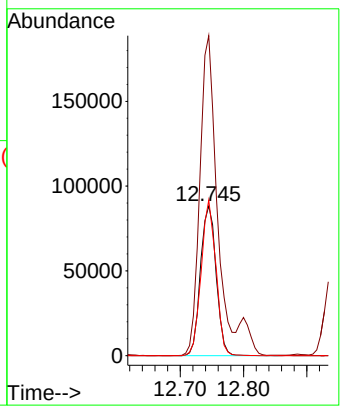




#77
Bromobenzene
Concen: 49.886 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:156 Resp: 15202

Ion	Ratio	Lower	Upper
156	100		
77	230.8	108.7	326.3
158	98.3	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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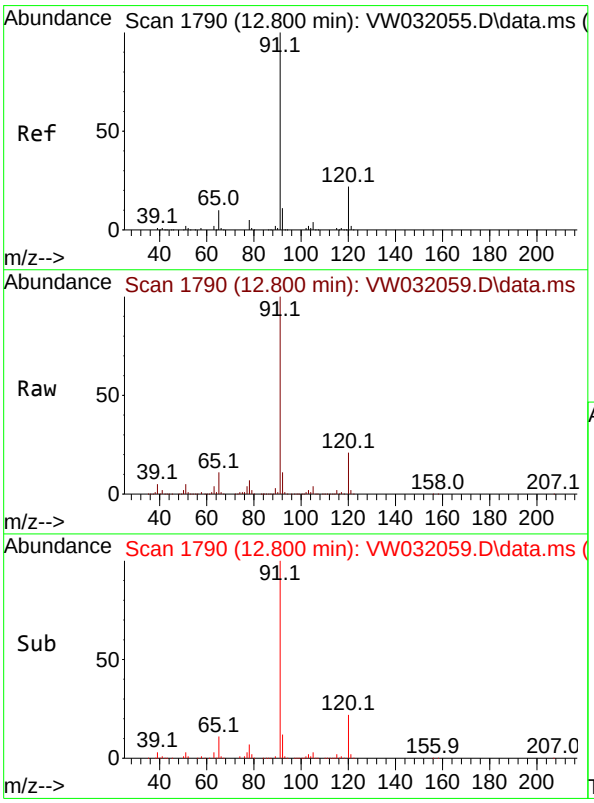
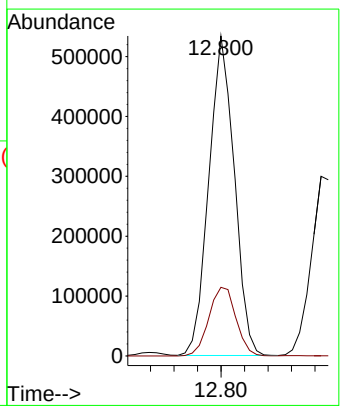
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

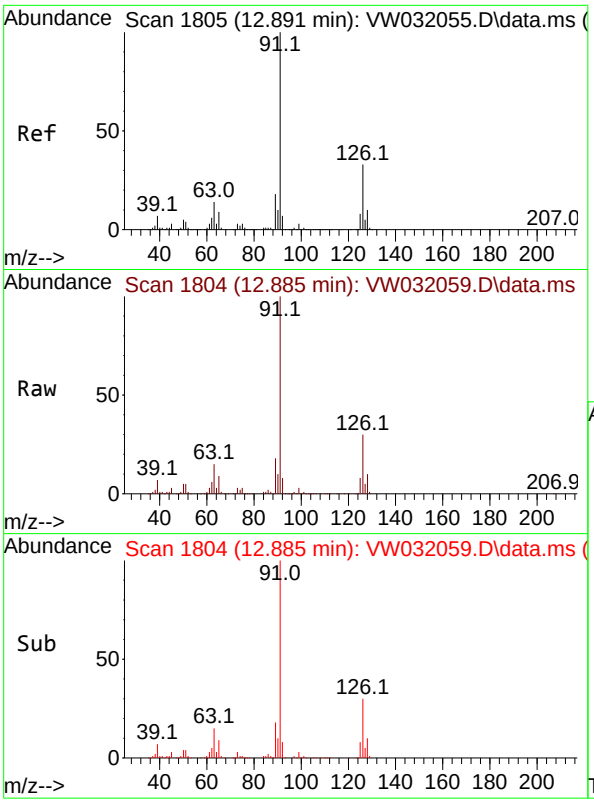


#78
n-propylbenzene
Concen: 51.148 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 803474

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3

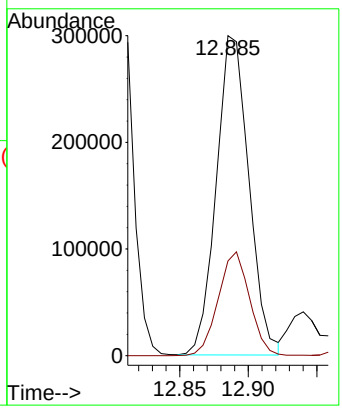




#79
2-Chlorotoluene
Concen: 51.114 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 49556

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.9	47.7



Instrument :
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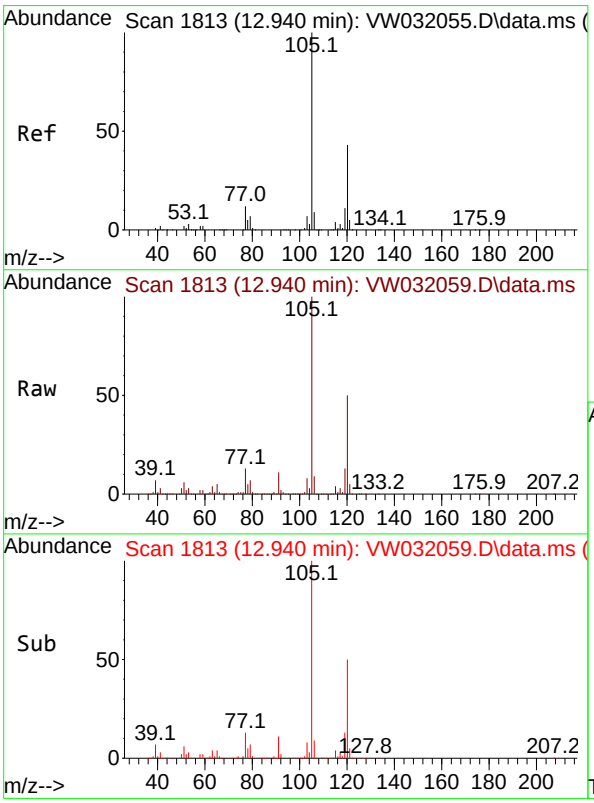
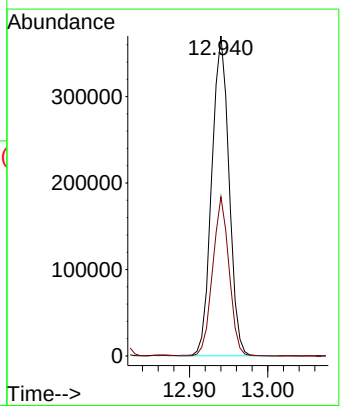
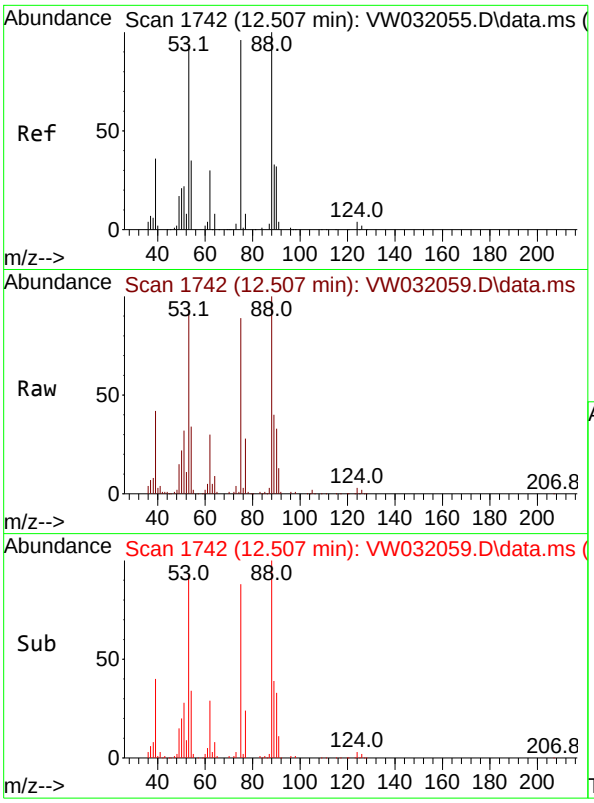


#80
1,3,5-Trimethylbenzene
Concen: 52.291 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 566437

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 53.570 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 5127

Ion	Ratio	Lower	Upper
75	100		
53	104.4	81.0	121.6
89	45.7	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
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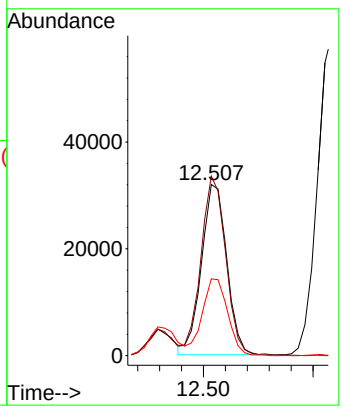
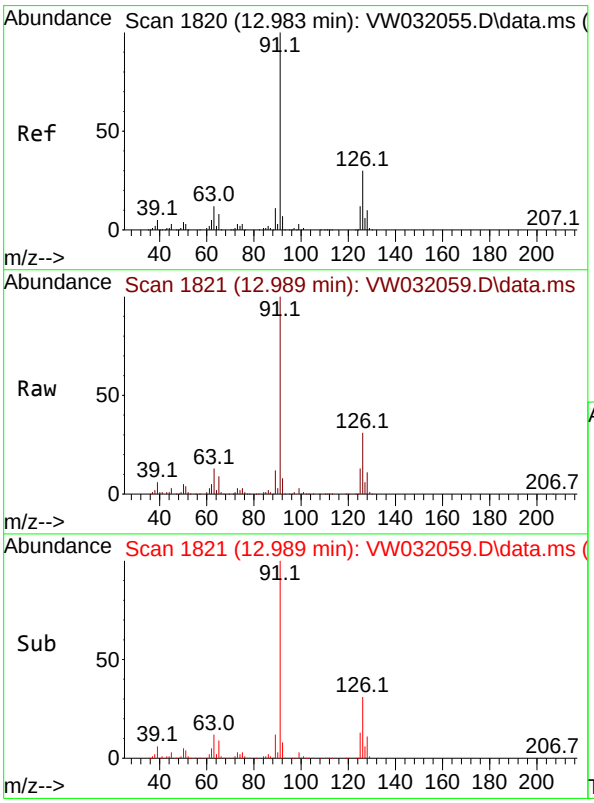
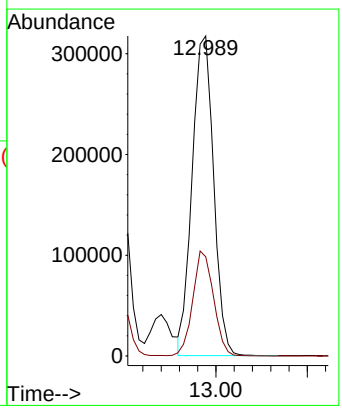


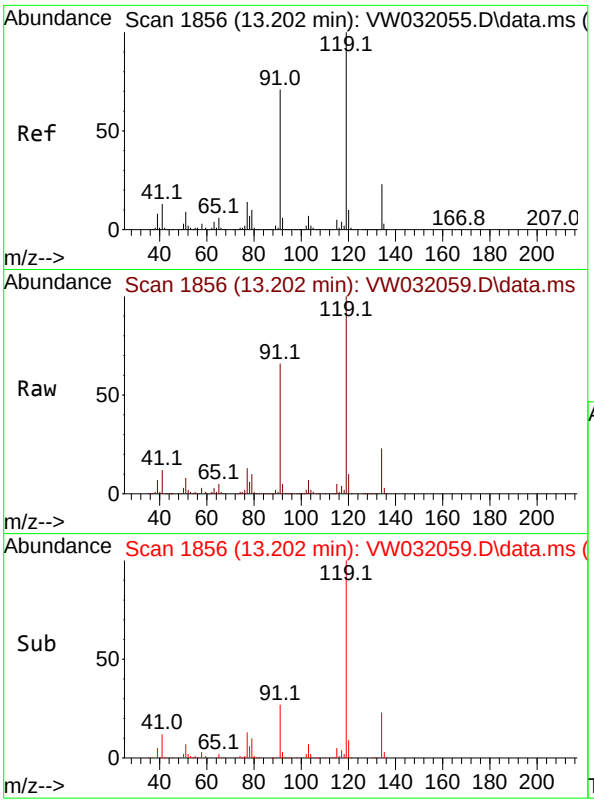


#82
4-Chlorotoluene
Concen: 50.312 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 518248

Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.5	46.5

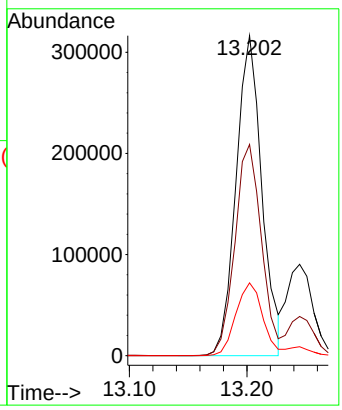




#83
tert-Butylbenzene
Concen: 53.777 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:119 Resp: 48345

Ion	Ratio	Lower	Upper
119	100		
91	67.8	35.3	105.9
134	23.9	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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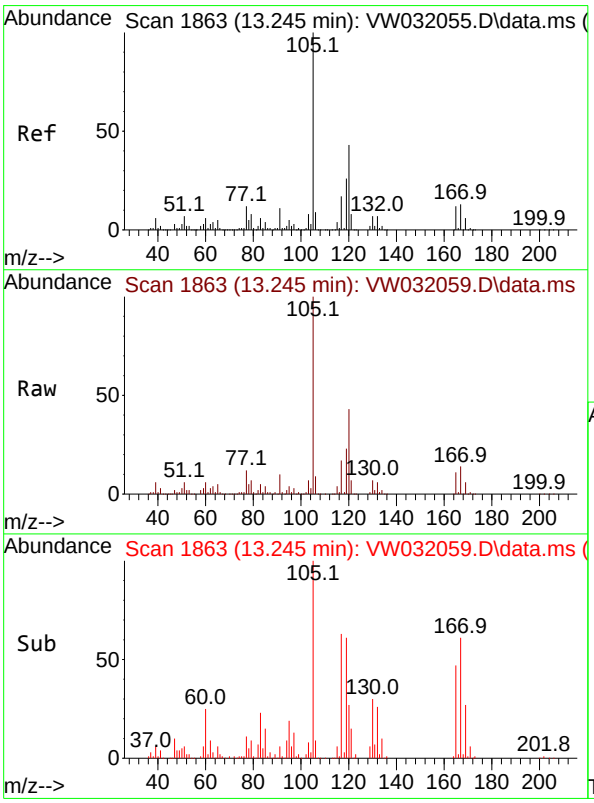
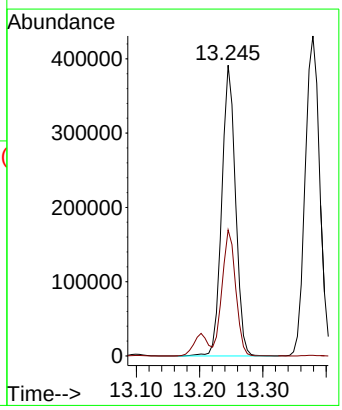
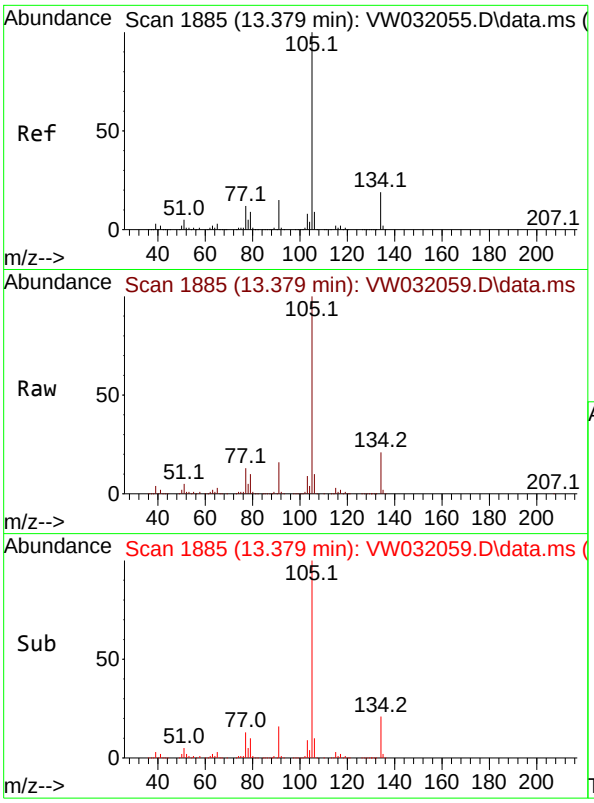


#84
1,2,4-Trimethylbenzene
Concen: 53.308 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 587831

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.6	64.8





#85
sec-Butylbenzene
Concen: 50.571 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 68736

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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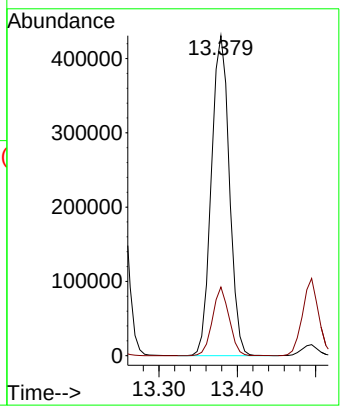
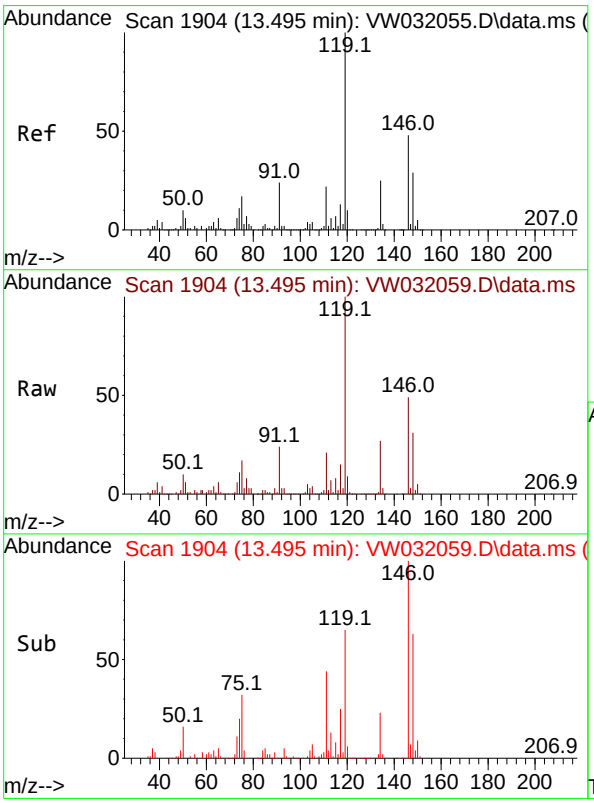
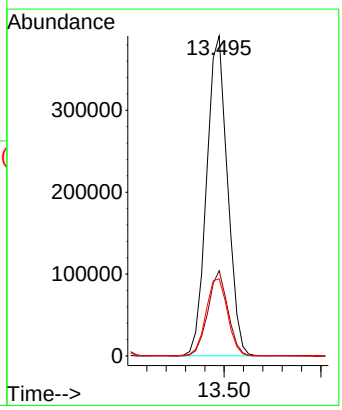


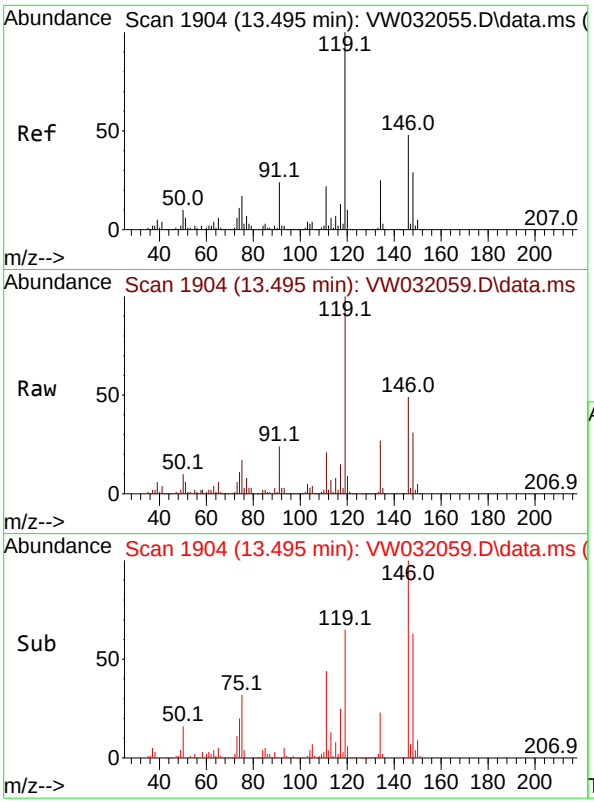


#86
p-Isopropyltoluene
Concen: 51.580 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:119 Resp: 584473

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.4	37.0
91	24.9	12.1	36.3

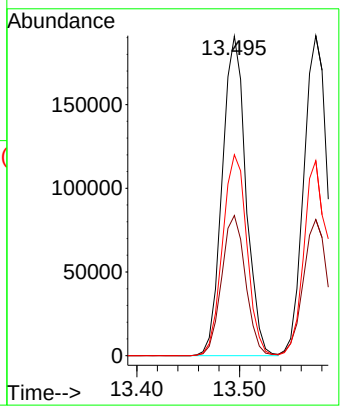




#87
1,3-Dichlorobenzene
Concen: 50.304 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 30504

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.2	63.6
148	64.8	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
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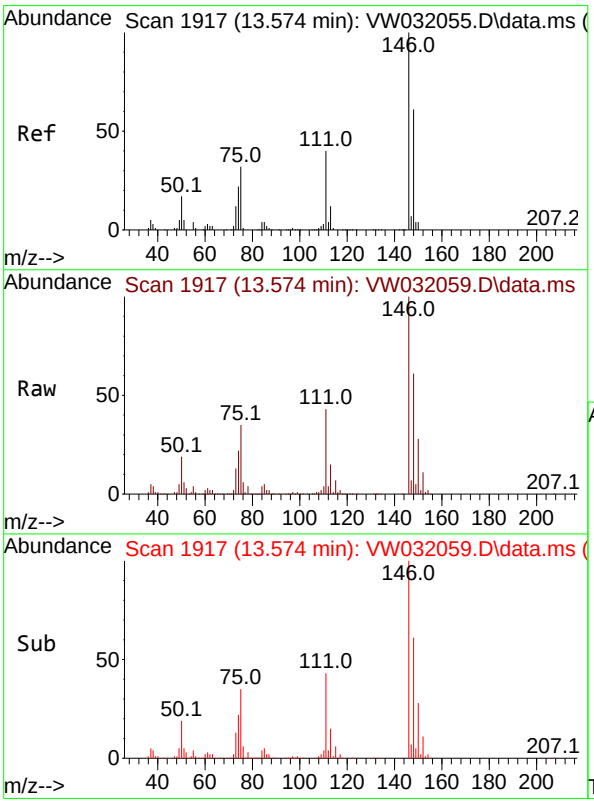
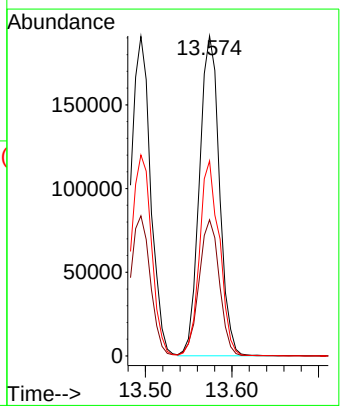
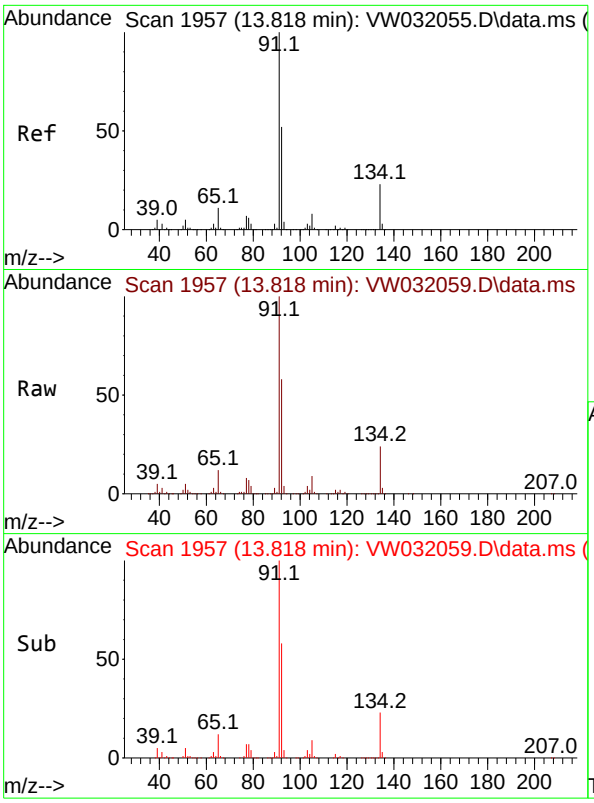


#88
1,4-Dichlorobenzene
Concen: 49.942 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 306047

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	64.6
148	60.9	32.0	96.2

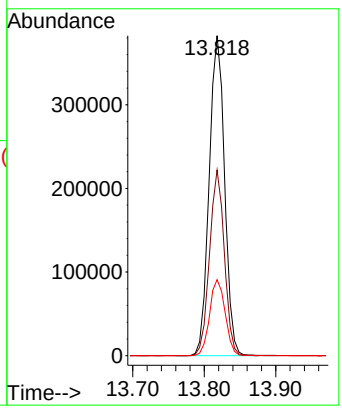




#89
n-Butylbenzene
Concen: 51.958 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 57197

Ion	Ratio	Lower	Upper
91	100		
92	55.7	26.7	80.1
134	23.9	12.0	36.1



Instrument :
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ClientSampleId :
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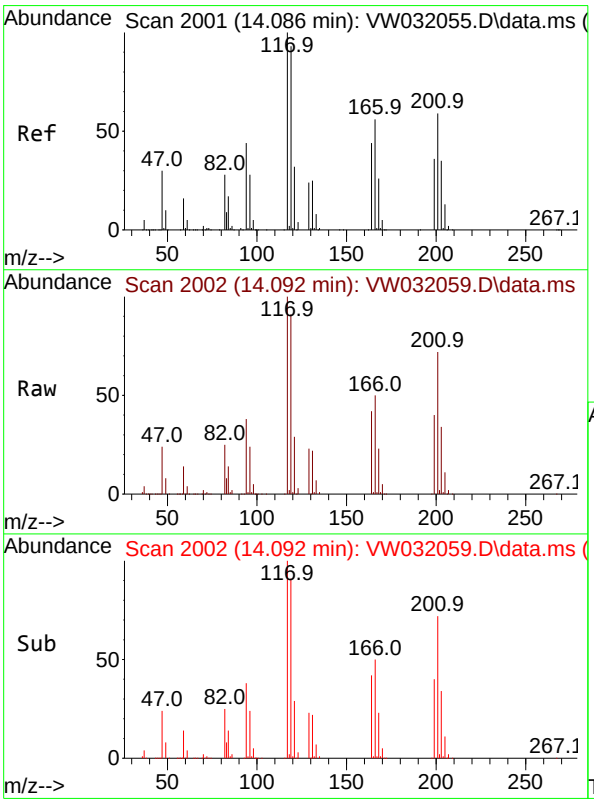
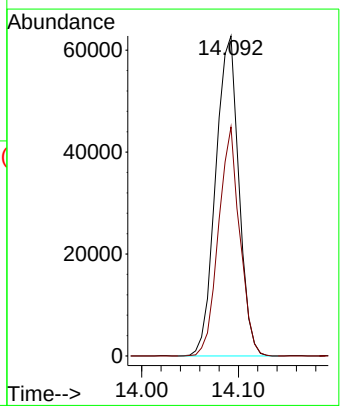
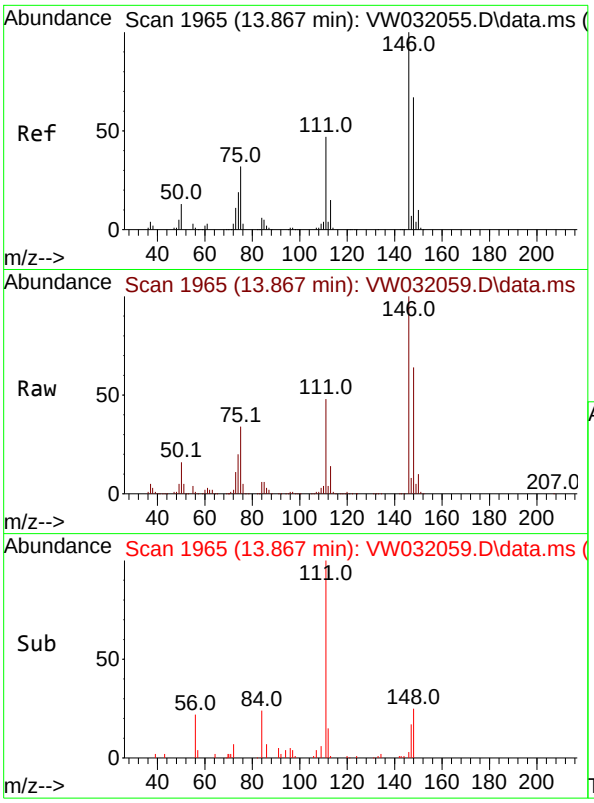


#90
Hexachloroethane
Concen: 50.329 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 104295

Ion	Ratio	Lower	Upper
117	100		
201	65.9	30.9	92.5

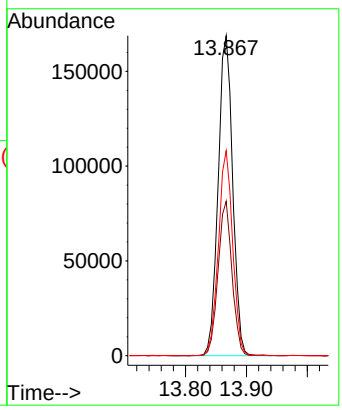




#91
1,2-Dichlorobenzene
Concen: 50.926 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 27974

Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.1	69.3
148	63.0	32.9	98.6



Instrument :
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ClientSampleId :
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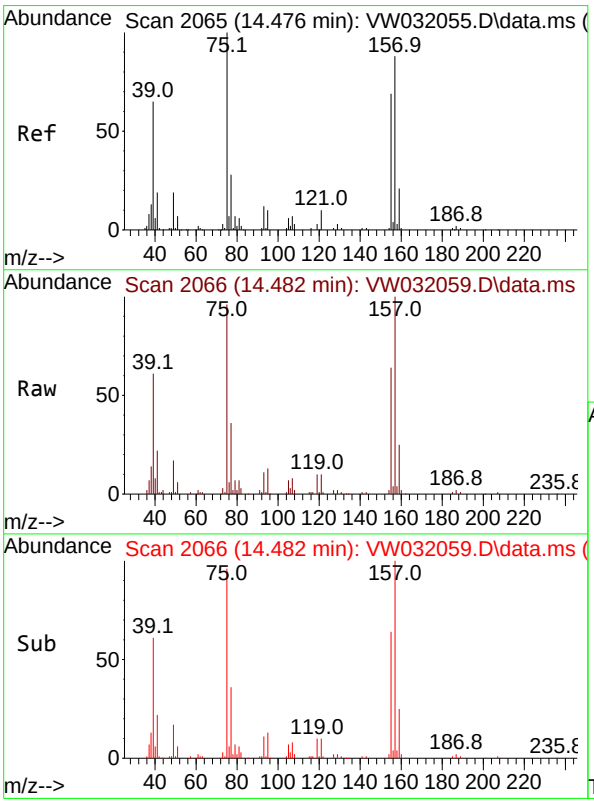
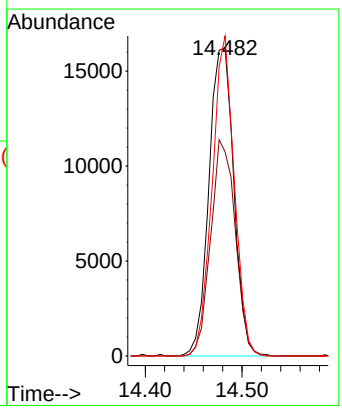
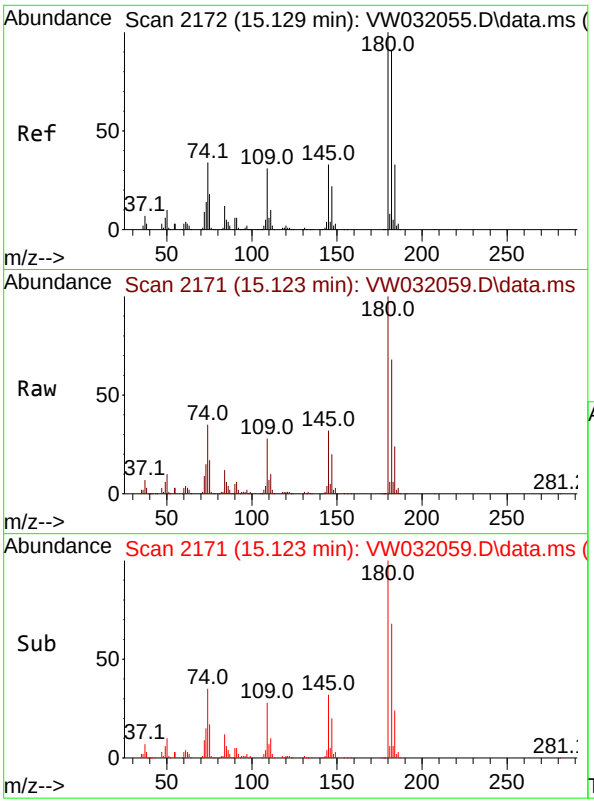


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.872 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 29014

Ion	Ratio	Lower	Upper
75	100		
155	69.2	35.2	105.6
157	92.2	47.5	142.6

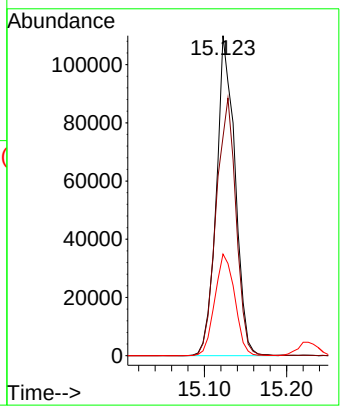




#93
1,2,4-Trichlorobenzene
Concen: 52.764 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:180 Resp: 17338

Ion	Ratio	Lower	Upper
180	100		
182	85.4	49.0	147.0
145	34.1	17.3	51.9



Instrument :
MSVOA_W
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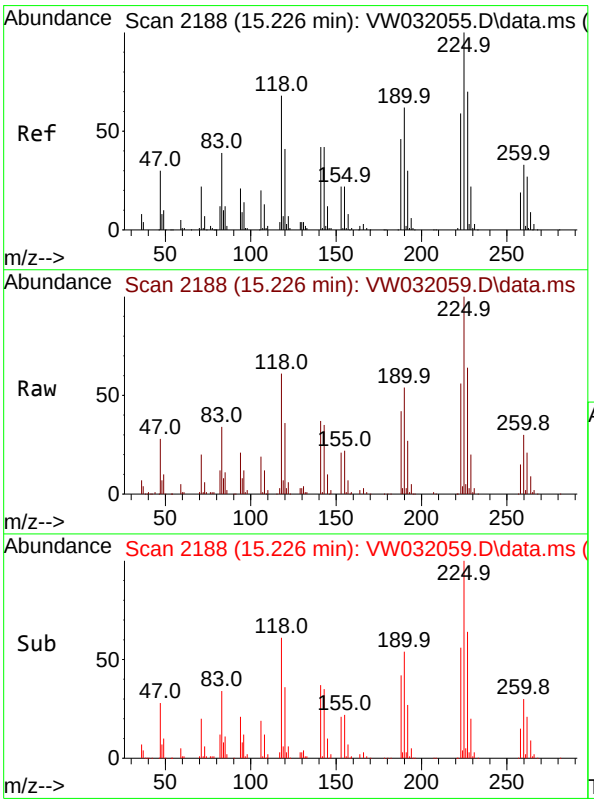
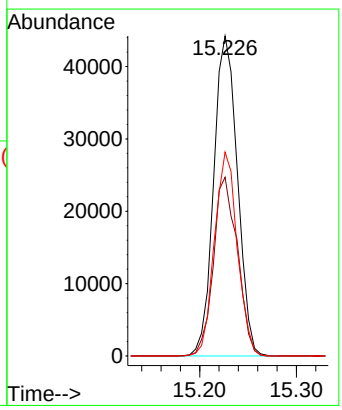
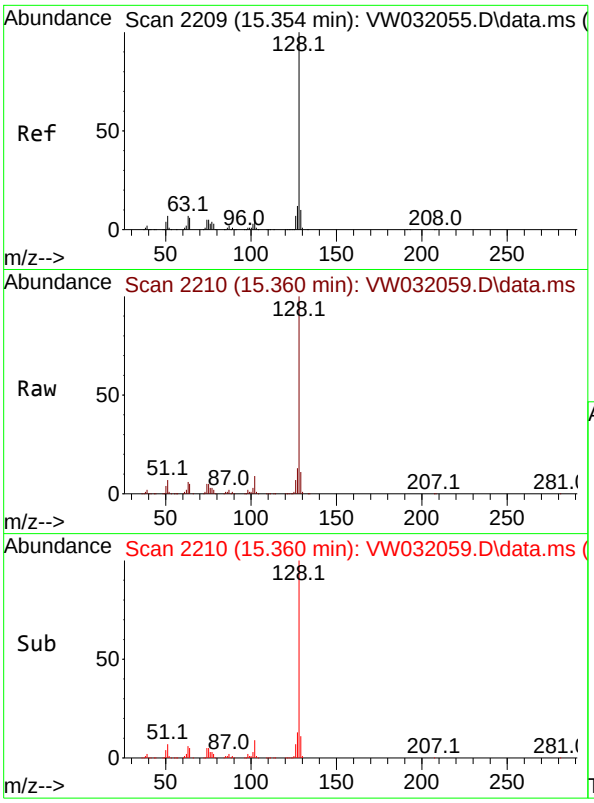


#94
Hexachlorobutadiene
Concen: 51.262 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:225 Resp: 75299

Ion	Ratio	Lower	Upper
225	100		
223	56.5	31.8	95.3
227	61.3	33.5	100.5

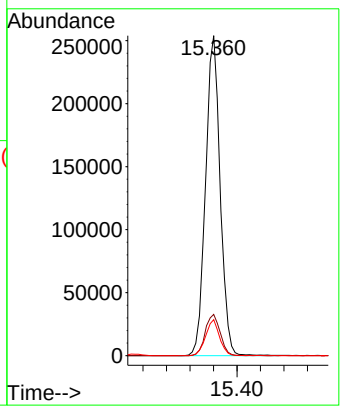




#95
Naphthalene
Concen: 54.415 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:128 Resp: 43813

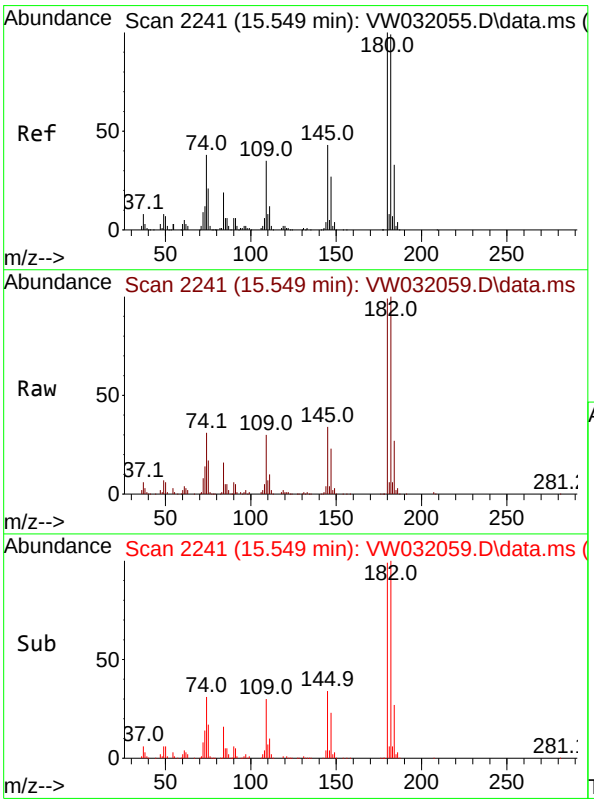
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.7	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
APPROVED

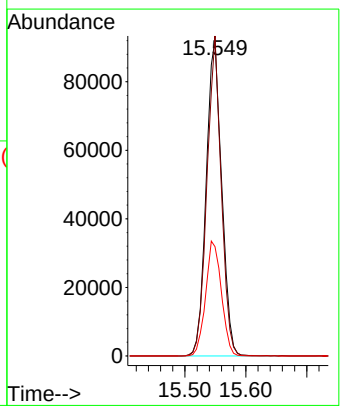
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:180 Resp: 162431

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.0	138.0
145	37.1	19.2	57.6



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.358	0.308	14.0	93	0.00
3	P	Chloromethane	0.482	0.457	5.2	106	0.00
4	C	Vinyl Chloride	0.583	0.549	5.8#	105	0.00
5	T	Bromomethane	0.437	0.413	5.5	102	0.00
6	T	Chloroethane	0.386	0.369	4.4	102	0.00
7	T	Trichlorofluoromethane	0.467	0.480	-2.8	105	0.00
8	T	Diethyl Ether	0.382	0.385	-0.8	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.521	5.4	102	0.00
10	T	Methyl Iodide	0.781	0.777	0.5	105	0.00
11	T	Tert butyl alcohol	0.047	0.051	-8.5	102	-0.01
12	CM	1,1-Dichloroethene	0.606	0.582	4.0#	103	0.00
13	T	Acrolein	0.075	0.071	5.3	102	0.00
14	T	Allyl chloride	0.883	0.902	-2.2	106	0.00
15	T	Acrylonitrile	0.182	0.194	-6.6	103	0.00
16	T	Acetone	0.167	0.170	-1.8	106	0.00
17	T	Carbon Disulfide	1.628	1.594	2.1	104	0.00
18	T	Methyl Acetate	0.530	0.557	-5.1	102	0.00
19	T	Methyl tert-butyl Ether	1.068	1.164	-9.0	107	0.00
20	T	Methylene Chloride	0.774	0.719	7.1	107	0.00
21	T	trans-1,2-Dichloroethene	0.644	0.644	0.0	104	0.00
22	T	Diisopropyl ether	1.860	1.936	-4.1	104	0.00
23	T	Vinyl Acetate	1.222	1.320	-8.0	103	0.00
24	P	1,1-Dichloroethane	1.189	1.170	1.6	103	0.00
25	T	2-Butanone	0.238	0.259	-8.8	103	0.00
26	T	2,2-Dichloropropane	0.596	0.592	0.7	104	0.00
27	T	cis-1,2-Dichloroethene	0.752	0.773	-2.8	105	0.00
28	T	Bromochloromethane	0.541	0.544	-0.6	102	0.00
29	T	Tetrahydrofuran	0.157	0.172	-9.6	102	0.00
30	C	Chloroform	1.260	1.255	0.4#	103	0.00
31	T	Cyclohexane	1.031	0.961	6.8	101	0.00
32	T	1,1,1-Trichloroethane	0.915	0.917	-0.2	107	0.00
33	S	1,2-Dichloroethane-d4	0.723	0.712	1.5	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35	S	Dibromofluoromethane	0.323	0.323	0.0	103	0.00
36	T	1,1-Dichloropropene	0.455	0.451	0.9	100	0.00
37	T	Ethyl Acetate	0.268	0.296	-10.4	104	0.00
38	T	Carbon Tetrachloride	0.439	0.440	-0.2	101	0.00
39	T	Methylcyclohexane	0.555	0.579	-4.3	103	0.00
40	TM	Benzene	1.415	1.423	-0.6	100	0.00
41	T	Methacrylonitrile	0.152	0.168	-10.5	104	0.00
42	TM	1,2-Dichloroethane	0.453	0.463	-2.2	103	0.00
43	T	Isopropyl Acetate	0.493	0.541	-9.7	104	0.00
44	TM	Trichloroethene	0.337	0.332	1.5	101	0.00
45	C	1,2-Dichloropropane	0.342	0.352	-2.9#	103	0.00
46	T	Dibromomethane	0.221	0.223	-0.9	101	0.00
47	T	Bromodichloromethane	0.509	0.527	-3.5	102	0.00
48	T	Methyl methacrylate	0.238	0.262	-10.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
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Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ICVVW081125

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.003	0.0	104	0.00
50	S	Toluene-d8	1.195	1.188	0.6	99	0.00
51	T	4-Methyl-2-Pentanone	0.279	0.307	-10.0	102	0.00
52	CM	Toluene	0.892	0.899	-0.8#	100	0.00
53	T	t-1,3-Dichloropropene	0.476	0.506	-6.3	102	0.00
54	T	cis-1,3-Dichloropropene	0.541	0.568	-5.0	101	0.00
55	T	1,1,2-Trichloroethane	0.293	0.303	-3.4	103	0.00
56	T	Ethyl methacrylate	0.392	0.442	-12.8	104	0.00
57	T	1,3-Dichloropropane	0.511	0.523	-2.3	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.217	0.237	-9.2	102	0.00
59	T	2-Hexanone	0.193	0.217	-12.4	102	0.00
60	T	Dibromochloromethane	0.335	0.350	-4.5	104	0.00
61	T	1,2-Dibromoethane	0.285	0.300	-5.3	104	0.00
62	S	4-Bromofluorobenzene	0.440	0.453	-3.0	102	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.289	0.296	-2.4	109	0.00
65	PM	Chlorobenzene	1.088	1.077	1.0	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.340	0.342	-0.6	103	0.00
67	C	Ethyl Benzene	1.843	1.853	-0.5#	101	0.00
68	T	m/p-Xylenes	0.711	0.723	-1.7	101	0.00
69	T	o-Xylene	0.657	0.676	-2.9	102	0.00
70	T	Styrene	1.168	1.211	-3.7	102	0.00
71	P	Bromoform	0.194	0.213	-9.8	106	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.494	3.674	-5.2	102	0.00
74	T	N-amyl acetate	1.003	1.116	-11.3	102	0.00
75	P	1,1,2,2-Tetrachloroethane	0.830	0.871	-4.9	102	0.00
76	T	1,2,3-Trichloropropane	0.679	0.653	3.8	87	0.00
77	T	Bromobenzene	0.835	0.833	0.2	97	0.00
78	T	n-propylbenzene	4.302	4.401	-2.3	100	0.00
79	T	2-Chlorotoluene	2.655	2.714	-2.2	101	0.00
80	T	1,3,5-Trimethylbenzene	2.967	3.102	-4.6	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.262	0.281	-7.3	99	0.00
82	T	4-Chlorotoluene	2.821	2.839	-0.6	100	0.00
83	T	tert-Butylbenzene	2.462	2.648	-7.6	105	0.00
84	T	1,2,4-Trimethylbenzene	3.020	3.220	-6.6	103	0.00
85	T	sec-Butylbenzene	3.722	3.765	-1.2	100	0.00
86	T	p-Isopropyltoluene	3.103	3.201	-3.2	99	0.00
87	T	1,3-Dichlorobenzene	1.661	1.671	-0.6	97	0.00
88	T	1,4-Dichlorobenzene	1.678	1.676	0.1	102	0.00
89	T	n-Butylbenzene	3.015	3.133	-3.9	100	0.00
90	T	Hexachloroethane	0.568	0.571	-0.5	103	0.00
91	T	1,2-Dichlorobenzene	1.504	1.532	-1.9	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.147	0.159	-8.2	102	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.950	-5.6	105	0.00
94	T	Hexachlorobutadiene	0.402	0.412	-2.5	109	0.00
95	T	Naphthalene	2.205	2.400	-8.8	101	0.00

ICAL Form

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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.819	0.890	-8.7	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

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Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	50.000	43.069	13.9	93	0.00
3	P	Chloromethane	50.000	47.474	5.1	106	0.00
4	C	Vinyl Chloride	50.000	47.096	5.8#	105	0.00
5	T	Bromomethane	50.000	47.201	5.6	102	0.00
6	T	Chloroethane	50.000	47.858	4.3	102	0.00
7	T	Trichlorofluoromethane	50.000	51.386	-2.8	105	0.00
8	T	Diethyl Ether	50.000	50.380	-0.8	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.316	5.4	102	0.00
10	T	Methyl Iodide	50.000	49.742	0.5	105	0.00
11	T	Tert butyl alcohol	250.000	271.910	-8.8	102	-0.01
12	CM	1,1-Dichloroethene	50.000	47.992	4.0#	103	0.00
13	T	Acrolein	250.000	236.960	5.2	102	0.00
14	T	Allyl chloride	50.000	51.094	-2.2	106	0.00
15	T	Acrylonitrile	250.000	265.958	-6.4	103	0.00
16	T	Acetone	250.000	254.262	-1.7	106	0.00
17	T	Carbon Disulfide	50.000	48.970	2.1	104	0.00
18	T	Methyl Acetate	50.000	52.614	-5.2	102	0.00
19	T	Methyl tert-butyl Ether	50.000	54.465	-8.9	107	0.00
20	T	Methylene Chloride	50.000	46.453	7.1	107	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.035	-0.1	104	0.00
22	T	Diisopropyl ether	50.000	52.038	-4.1	104	0.00
23	T	Vinyl Acetate	250.000	270.210	-8.1	103	0.00
24	P	1,1-Dichloroethane	50.000	49.234	1.5	103	0.00
25	T	2-Butanone	250.000	272.083	-8.8	103	0.00
26	T	2,2-Dichloropropane	50.000	49.659	0.7	104	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.404	-2.8	105	0.00
28	T	Bromochloromethane	50.000	50.315	-0.6	102	0.00
29	T	Tetrahydrofuran	250.000	274.235	-9.7	102	0.00
30	C	Chloroform	50.000	49.803	0.4#	103	0.00
31	T	Cyclohexane	50.000	46.646	6.7	101	0.00
32	T	1,1,1-Trichloroethane	50.000	50.108	-0.2	107	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.205	1.6	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35	S	Dibromofluoromethane	50.000	49.939	0.1	103	0.00
36	T	1,1-Dichloropropene	50.000	49.574	0.9	100	0.00
37	T	Ethyl Acetate	50.000	55.214	-10.4	104	0.00
38	T	Carbon Tetrachloride	50.000	50.015	-0.0	101	0.00
39	T	Methylcyclohexane	50.000	52.181	-4.4	103	0.00
40	TM	Benzene	50.000	50.272	-0.5	100	0.00
41	T	Methacrylonitrile	50.000	55.204	-10.4	104	0.00
42	TM	1,2-Dichloroethane	50.000	51.154	-2.3	103	0.00
43	T	Isopropyl Acetate	50.000	54.846	-9.7	104	0.00
44	TM	Trichloroethene	50.000	49.175	1.7	101	0.00
45	C	1,2-Dichloropropane	50.000	51.403	-2.8#	103	0.00
46	T	Dibromomethane	50.000	50.497	-1.0	101	0.00
47	T	Bromodichloromethane	50.000	51.775	-3.5	102	0.00
48	T	Methyl methacrylate	50.000	55.048	-10.1	102	0.00

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Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1155.151	-15.5	104	0.00
50	S	Toluene-d8	50.000	49.708	0.6	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	275.585	-10.2	102	0.00
52	CM	Toluene	50.000	50.410	-0.8#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	53.108	-6.2	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.577	-5.2	101	0.00
55	T	1,1,2-Trichloroethane	50.000	51.716	-3.4	103	0.00
56	T	Ethyl methacrylate	50.000	56.374	-12.7	104	0.00
57	T	1,3-Dichloropropane	50.000	51.186	-2.4	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	272.893	-9.2	102	0.00
59	T	2-Hexanone	250.000	281.817	-12.7	102	0.00
60	T	Dibromochloromethane	50.000	52.276	-4.6	104	0.00
61	T	1,2-Dibromoethane	50.000	52.603	-5.2	104	0.00
62	S	4-Bromofluorobenzene	50.000	51.460	-2.9	102	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	51.245	-2.5	109	0.00
65	PM	Chlorobenzene	50.000	49.461	1.1	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.324	-0.6	103	0.00
67	C	Ethyl Benzene	50.000	50.253	-0.5#	101	0.00
68	T	m/p-Xylenes	100.000	101.607	-1.6	101	0.00
69	T	o-Xylene	50.000	51.416	-2.8	102	0.00
70	T	Styrene	50.000	51.833	-3.7	102	0.00
71	P	Bromoform	50.000	54.945	-9.9	106	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	52.571	-5.1	102	0.00
74	T	N-amyl acetate	50.000	55.682	-11.4	102	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.514	-5.0	102	0.00
76	T	1,2,3-Trichloropropane	50.000	48.091	3.8	87	0.00
77	T	Bromobenzene	50.000	49.886	0.2	97	0.00
78	T	n-propylbenzene	50.000	51.148	-2.3	100	0.00
79	T	2-Chlorotoluene	50.000	51.114	-2.2	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.291	-4.6	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	53.570	-7.1	99	0.00
82	T	4-Chlorotoluene	50.000	50.312	-0.6	100	0.00
83	T	tert-Butylbenzene	50.000	53.777	-7.6	105	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.308	-6.6	103	0.00
85	T	sec-Butylbenzene	50.000	50.571	-1.1	100	0.00
86	T	p-Isopropyltoluene	50.000	51.580	-3.2	99	0.00
87	T	1,3-Dichlorobenzene	50.000	50.304	-0.6	97	0.00
88	T	1,4-Dichlorobenzene	50.000	49.942	0.1	102	0.00
89	T	n-Butylbenzene	50.000	51.958	-3.9	100	0.00
90	T	Hexachloroethane	50.000	50.329	-0.7	103	0.00
91	T	1,2-Dichlorobenzene	50.000	50.926	-1.9	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.872	-7.7	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.764	-5.5	105	0.00
94	T	Hexachlorobutadiene	50.000	51.262	-2.5	109	0.00
95	T	Naphthalene	50.000	54.415	-8.8	101	0.00

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QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.327	-8.7	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2820

Instrument ID: MSVOA_Y Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y Calibration Time(s): 14:54 16:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY023050.D RRF010 = VY023051.D RRF020 = VY023052.D
RRF050 = VY023053.D RRF100 = VY023054.D RRF150 = VY023055.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.8
Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9
Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.3
Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.5
Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.2
Trichlorofluoromethane	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.7
1,1,2-Trichlorotrifluoroethane	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7
1,1-Dichloroethene	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.4
Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.9
Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.3
Methyl tert-butyl Ether	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.1
Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.4
Methylene Chloride	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.7
trans-1,2-Dichloroethene	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.3
1,1-Dichloroethane	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.1
Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.4
2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.5
Carbon Tetrachloride	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.1
cis-1,2-Dichloroethene	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.8
Bromochloromethane	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.9
Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.8
1,1,1-Trichloroethane	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.8
Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.3
Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.8
1,2-Dichloroethane	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.6
Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.3
1,2-Dichloropropane	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.1
Bromodichloromethane	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.5
4-Methyl-2-Pentanone	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.7
Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.3

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

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2820

Instrument ID: MSVOA_Y Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y Calibration Time(s): 14:54 16:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY023050.D RRF010 = VY023051.D RRF020 = VY023052.D
RRF050 = VY023053.D RRF100 = VY023054.D RRF150 = VY023055.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.5
cis-1,3-Dichloropropene	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.5
1,1,2-Trichloroethane	0.230	0.242	0.253	0.239	0.236	0.254	0.242	4
2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.6
Dibromochloromethane	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.1
1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.6
Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.2
Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.6
Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.6
m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.8
o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.1
Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	10
Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5
Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.4
1,1,2,2-Tetrachloroethane	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.2
1,3-Dichlorobenzene	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.5
1,4-Dichlorobenzene	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.3
1,2-Dichlorobenzene	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.7
1,2-Dibromo-3-Chloropropane	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.3
1,2,4-Trichlorobenzene	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.4
1,2,3-Trichlorobenzene	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.7
1,2-Dichloroethane-d4	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.7
Dibromofluoromethane	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.1
Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.9
4-Bromofluorobenzene	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.4

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025
Response Via : Initial Calibration

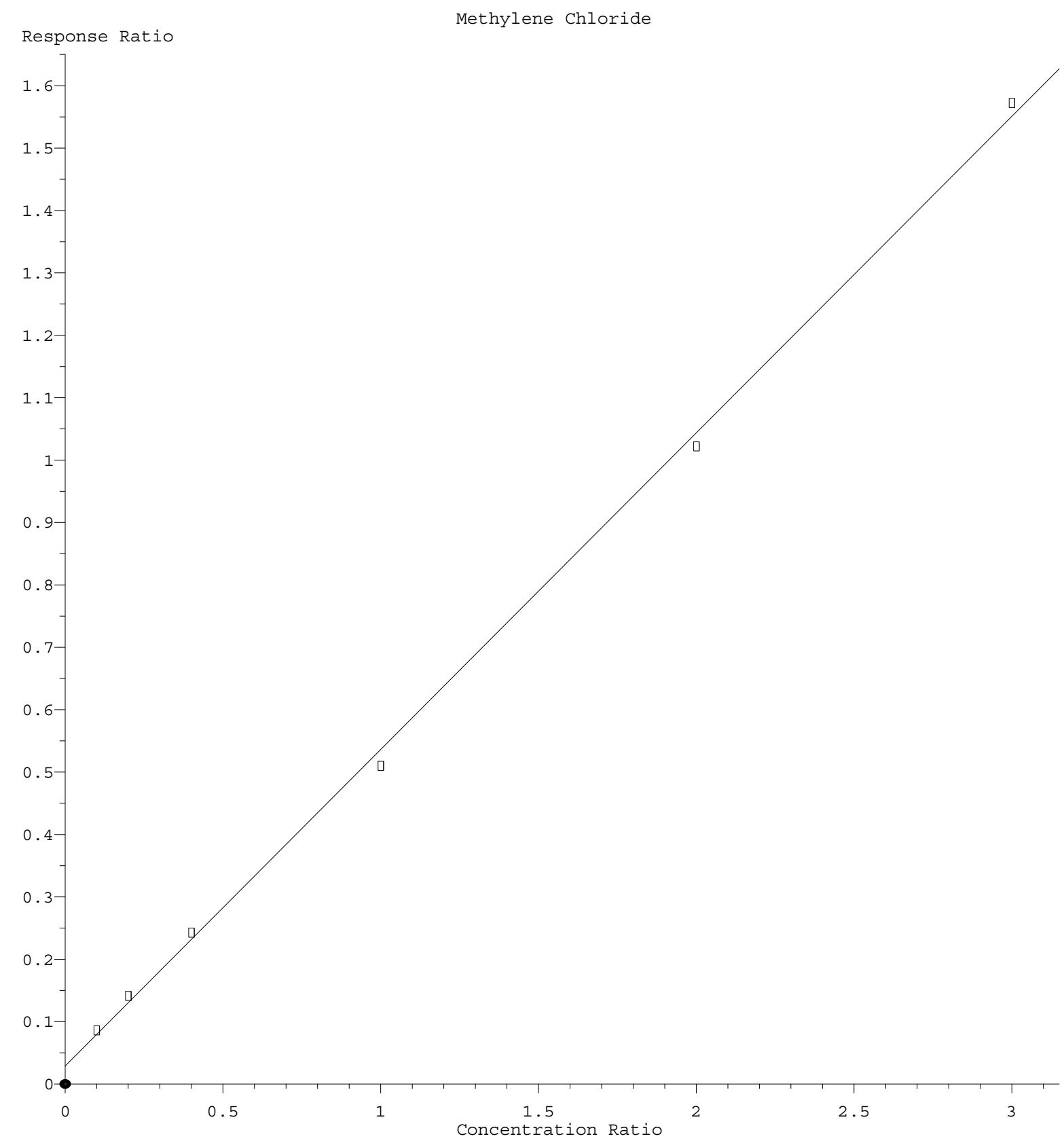
Calibration Files
5 =VY023050.D 10 =VY023051.D 20 =VY023052.D 50 =VY023053.D 100 =VY023054.D 150 =VY023055.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.79
3)	P	Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9.01
4)	C	Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.29#
5)	T	Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.52
6)	T	Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.19
7)	T	Trichlorofluor...	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.68
8)	T	Diethyl Ether	0.271	0.276	0.271	0.251	0.245	0.264	0.263	4.69
9)	T	1,1,2-Trichlor...	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7.01
10)	T	Methyl Iodide	0.468	0.491	0.539	0.549	0.564	0.563	0.529	7.57
11)	T	Tert butyl alc...	0.033	0.037	0.033	0.032	0.029	0.033	0.033	7.44
12)	CM	1,1-Dichloroet...	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.38#
13)	T	Acrolein	0.048	0.055	0.050	0.045	0.043	0.046	0.048	8.57
14)	T	Allyl chloride	0.734	0.718	0.724	0.686	0.681	0.712	0.709	3.01
15)	T	Acrylonitrile	0.101	0.114	0.112	0.106	0.100	0.109	0.107	5.51
16)	T	Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.89
17)	T	Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.30
18)	T	Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.37
19)	T	Methyl tert-bu...	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.09
20)	T	Methylene Chlo...	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.69
21)	T	trans-1,2-Dich...	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.28
22)	T	Diisopropyl ether	1.442	1.565	1.609	1.512	1.510	1.605	1.541	4.21
23)	T	Vinyl Acetate	0.790	0.875	0.875	0.841	0.830	0.899	0.852	4.62
24)	P	1,1-Dichloroet...	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.15
25)	T	2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.51
26)	T	2,2-Dichloropr...	0.837	0.830	0.844	0.790	0.776	0.800	0.813	3.43
27)	T	cis-1,2-Dichlo...	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.77
28)	T	Bromochloromet...	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.88
29)	T	Tetrahydrofuran	0.084	0.091	0.089	0.087	0.081	0.091	0.087	4.62
30)	C	Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.81#
31)	T	Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.35
32)	T	1,1,1-Trichlor...	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.85
33)	S	1,2-Dichloroet...	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.74
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.14
36)	T	1,1-Dichloropr...	0.442	0.455	0.461	0.433	0.429	0.447	0.445	2.81
37)	T	Ethyl Acetate	0.167	0.197	0.196	0.188	0.178	0.195	0.187	6.52
38)	T	Carbon Tetrach...	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.08
39)	T	Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.35
40)	TM	Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.76
41)	T	Methacrylonitrile	0.113	0.107	0.111	0.110	0.102	0.103	0.108	4.05
42)	TM	1,2-Dichloroet...	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.59
43)	T	Isopropyl Acetate	0.352	0.383	0.388	0.373	0.362	0.407	0.378	5.16
44)	TM	Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.35
45)	C	1,2-Dichloropr...	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.08#
46)	T	Dibromomethane	0.166	0.189	0.187	0.178	0.176	0.190	0.181	5.14
47)	T	Bromodichlorom...	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.47
48)	T	Methyl methacr...	0.149	0.180	0.189	0.188	0.182	0.196	0.181	9.18
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	6.71
50)	S	Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.92
51)	T	4-Methyl-2-Pen...	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.67
52)	CM	Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.28#
53)	T	t-1,3-Dichloro...	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.47
54)	T	cis-1,3-Dichlo...	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.54
55)	T	1,1,2-Trichlor...	0.230	0.242	0.253	0.239	0.236	0.254	0.242	3.96
56)	T	Ethyl methacry...	0.247	0.298	0.312	0.320	0.323	0.359	0.310	11.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y081225S.M

57)	T	1,3-Dichloropr...	0.385	0.421	0.429	0.405	0.395	0.429	0.411	4.52
58)	T	2-Chloroethyl ...	0.114	0.135	0.144	0.155	0.158	0.171	0.146	13.68
59)	T	2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.57
60)	T	Dibromochlorom...	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.09
61)	T	1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.60
62)	S	4-Bromofluorob...	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.41
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.16
65)	PM	Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.55
66)	T	1,1,1,2-Tetrac...	0.347	0.360	0.378	0.362	0.365	0.384	0.366	3.58
67)	C	Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.56#
68)	T	m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.80
69)	T	o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.13
70)	T	Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	9.96
71)	P	Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5.03
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.36
74)	T	N-amyl acetate	0.633	0.738	0.757	0.767	0.756	0.840	0.748	8.89
75)	P	1,1,2,2-Tetrac...	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.20
76)	T	1,2,3-Trichlor...	0.551	0.483	0.472	0.535	0.409	0.444	0.483	11.18
77)	T	Bromobenzene	0.824	0.830	0.866	0.828	0.831	0.873	0.842	2.58
78)	T	n-propylbenzene	4.052	4.149	4.317	4.217	4.158	4.315	4.201	2.46
79)	T	2-Chlorotoluene	2.349	2.398	2.464	2.382	2.390	2.461	2.407	1.90
80)	T	1,3,5-Trimethy...	2.672	2.811	2.932	2.859	2.872	2.966	2.852	3.64
81)	T	trans-1,4-Dich...	0.181	0.215	0.203	0.197	0.190	0.210	0.199	6.43
82)	T	4-Chlorotoluene	2.427	2.486	2.600	2.462	2.460	2.548	2.497	2.59
83)	T	tert-Butylbenzene	2.428	2.481	2.626	2.588	2.630	2.702	2.576	3.98
84)	T	1,2,4-Trimethy...	2.596	2.760	2.955	2.837	2.894	2.993	2.839	5.12
85)	T	sec-Butylbenzene	3.637	3.749	3.881	3.773	3.781	3.882	3.784	2.42
86)	T	p-Isopropyltol...	2.878	2.978	3.241	3.167	3.230	3.350	3.141	5.66
87)	T	1,3-Dichlorobe...	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.46
88)	T	1,4-Dichlorobe...	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.35
89)	T	n-Butylbenzene	2.625	2.809	2.972	2.911	2.933	3.059	2.885	5.24
90)	T	Hexachloroethane	0.638	0.648	0.650	0.630	0.632	0.660	0.643	1.83
91)	T	1,2-Dichlorobe...	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.65
92)	T	1,2-Dibromo-3-...	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.27
93)	T	1,2,4-Trichlor...	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.43
94)	T	Hexachlorobuta...	0.533	0.506	0.522	0.491	0.480	0.504	0.506	3.85
95)	T	Naphthalene	1.204	1.364	1.462	1.488	1.500	1.791	1.468	13.14
96)	T	1,2,3-Trichlor...	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.73

(#) = Out of Range



Response = 5.073e-001 * Amt + 2.916e-002
Coef of Det (r^2) = 0.998910 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y081225S.M
Calibration Table Last Updated: Wed Aug 13 02:10:11 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	561390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	904866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	759914	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	360397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	27563	5.152	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 10.300%#			
35) Dibromofluoromethane	7.634	113	26265	4.851	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 9.700%#			
50) Toluene-d8	10.103	98	104144	4.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	12.402	95	32420	4.766	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 9.540%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	27351	5.969	ug/l	96
3) Chloromethane	2.068	50	39269	5.291	ug/l	98
4) Vinyl Chloride	2.202	62	48736	5.312	ug/l	99
5) Bromomethane	2.592	94	37773	5.513	ug/l	97
6) Chloroethane	2.732	64	32816	5.380	ug/l	98
7) Trichlorofluoromethane	3.050	101	59438	5.328	ug/l	99
8) Diethyl Ether	3.452	74	15231	5.160	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	29291	5.322	ug/l	98
10) Methyl Iodide	3.994	142	26272	4.424	ug/l	98
11) Tert butyl alcohol	4.866	59	9219	25.147	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	27635	5.108	ug/l	87
13) Acrolein	3.647	56	13391	24.941	ug/l	95
14) Allyl chloride	4.372	41	41201	5.176	ug/l	94
15) Acrylonitrile	5.061	53	28255	23.547	ug/l	95
16) Acetone	3.866	43	30803	26.574	ug/l	98
17) Carbon Disulfide	4.098	76	92964	5.270	ug/l	96
18) Methyl Acetate	4.379	43	16806	4.872	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	66308	4.730	ug/l	98
20) Methylene Chloride	4.604	84	48322	5.657	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	30021	4.938	ug/l	97
22) Diisopropyl ether	6.012	45	80938	4.679	ug/l	91
23) Vinyl Acetate	5.958	43	221862	23.196	ug/l	97
24) 1,1-Dichloroethane	5.909	63	52152	4.931	ug/l	99
25) 2-Butanone	6.890	43	37821	23.991	ug/l	97
26) 2,2-Dichloropropane	6.878	77	46964	5.147	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	34877	4.962	ug/l	97
28) Bromochloromethane	7.238	49	20615	4.913	ug/l	96
29) Tetrahydrofuran	7.256	42	23487	24.035	ug/l	96
30) Chloroform	7.415	83	54392	4.987	ug/l	96
31) Cyclohexane	7.701	56	58362	5.856	ug/l #	83
32) 1,1,1-Trichloroethane	7.610	97	48413	5.003	ug/l	99
36) 1,1-Dichloropropene	7.829	75	39978	4.968	ug/l	99
37) Ethyl Acetate	6.982	43	15080	4.461	ug/l #	95
38) Carbon Tetrachloride	7.811	117	44360	5.076	ug/l	99
39) Methylcyclohexane	9.103	83	51931	4.901	ug/l	99
40) Benzene	8.073	78	122482	4.939	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	10246m	5.247	ug/l		
42) 1,2-Dichloroethane	8.152	62	31902	4.946	ug/l		98
43) Isopropyl Acetate	8.195	43	31890	4.668	ug/l		100
44) Trichloroethene	8.859	130	32050	5.001	ug/l		93
45) 1,2-Dichloropropane	9.134	63	27418	4.805	ug/l		93
46) Dibromomethane	9.225	93	15033	4.590	ug/l		97
47) Bromodichloromethane	9.420	83	40327	4.785	ug/l		98
48) Methyl methacrylate	9.219	41	13477	4.122	ug/l		90
49) 1,4-Dioxane	9.231	88	3454	89.939	ug/l	#	91
51) 4-Methyl-2-Pentanone	9.993	43	75891	21.535	ug/l		100
52) Toluene	10.164	92	73910	4.692	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	34154	4.475	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	41326	4.579	ug/l		97
55) 1,1,2-Trichloroethane	10.566	97	20795	4.745	ug/l		98
56) Ethyl methacrylate	10.432	69	22376	3.990	ug/l		99
57) 1,3-Dichloropropane	10.713	76	34835	4.687	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	51585	19.500	ug/l		100
59) 2-Hexanone	10.755	43	50604	21.088	ug/l		97
60) Dibromochloromethane	10.908	129	27141	4.693	ug/l		100
61) 1,2-Dibromoethane	11.012	107	18652	4.528	ug/l		97
64) Tetrachloroethene	10.640	164	36210	5.336	ug/l		97
65) Chlorobenzene	11.438	112	80684	4.922	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.511	131	26397	4.745	ug/l		94
67) Ethyl Benzene	11.511	91	134854	4.781	ug/l		99
68) m/p-Xylenes	11.621	106	102783	9.329	ug/l		97
69) o-Xylene	11.950	106	45944	4.453	ug/l		94
70) Styrene	11.963	104	71801	4.255	ug/l		97
71) Bromoform	12.127	173	14954	4.599	ug/l	#	94
73) Isopropylbenzene	12.249	105	123246	4.845	ug/l		99
74) N-amyl acetate	12.066	43	22829	4.232	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.499	83	21057	4.848	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	19875m	5.710	ug/l		
77) Bromobenzene	12.530	156	29681	4.891	ug/l		100
78) n-propylbenzene	12.590	91	146043	4.822	ug/l		99
79) 2-Chlorotoluene	12.670	91	84671	4.880	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	96308	4.685	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	6514	4.533	ug/l		89
82) 4-Chlorotoluene	12.773	91	87454	4.859	ug/l		99
83) tert-Butylbenzene	12.993	119	87496	4.712	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	93551	4.571	ug/l		100
85) sec-Butylbenzene	13.170	105	131079	4.806	ug/l		99
86) p-Isopropyltoluene	13.285	119	103731	4.582	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	57668	4.819	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	60781	5.120	ug/l		97
89) n-Butylbenzene	13.609	91	94594	4.549	ug/l		98
90) Hexachloroethane	13.871	117	22980	4.958	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	50829	4.843	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3369	4.982	ug/l		93
93) 1,2,4-Trichlorobenzene	14.913	180	28399	4.576	ug/l		98
94) Hexachlorobutadiene	15.017	225	19196	5.263	ug/l		96
95) Naphthalene	15.133	128	43395	4.100	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	24703	4.619	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

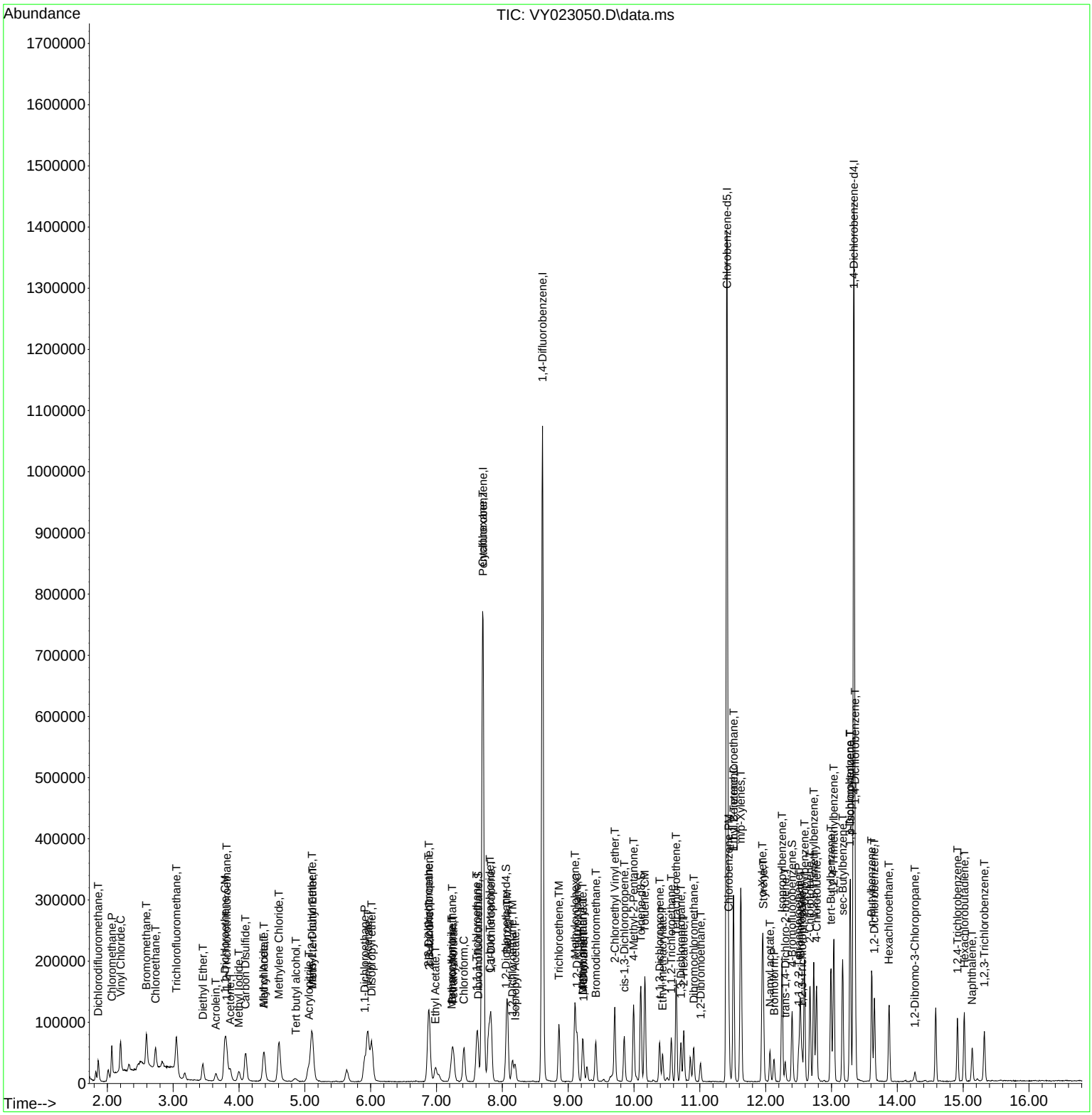
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

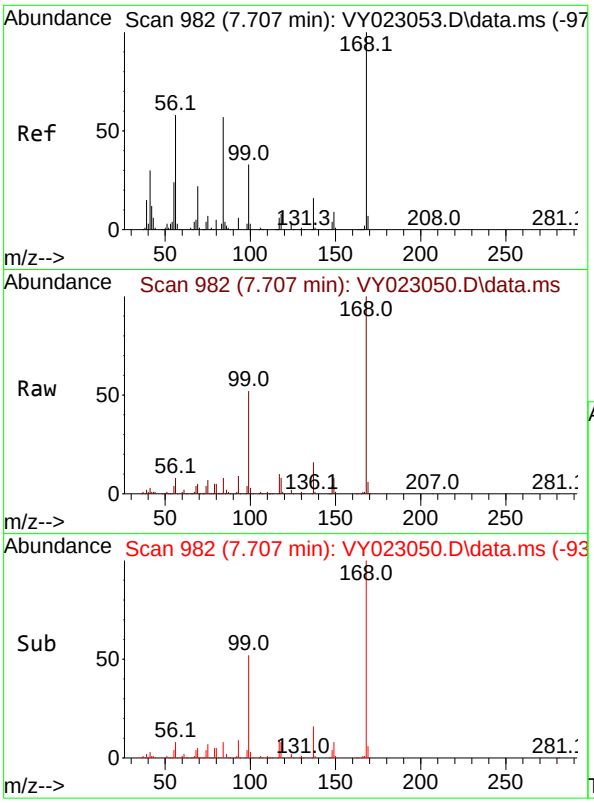
Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

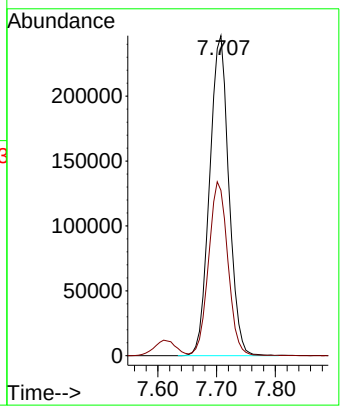




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:168 Resp: 56139

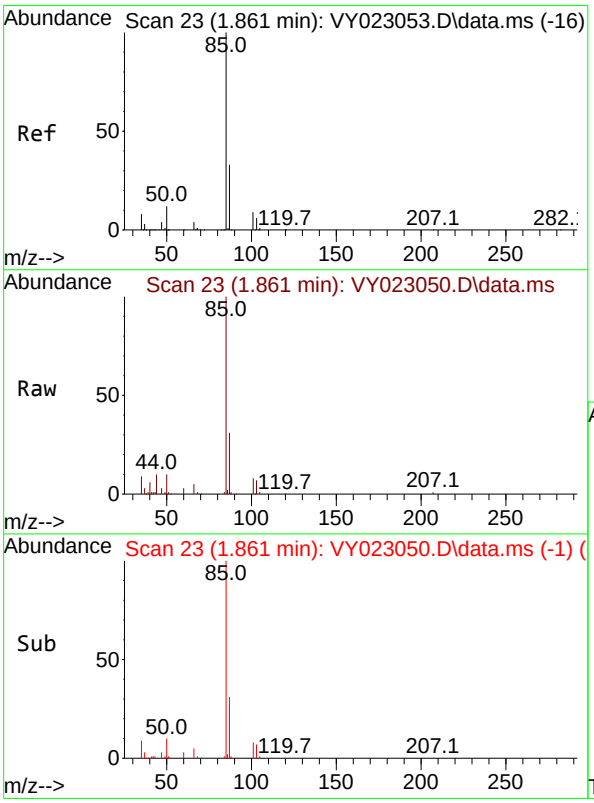
Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

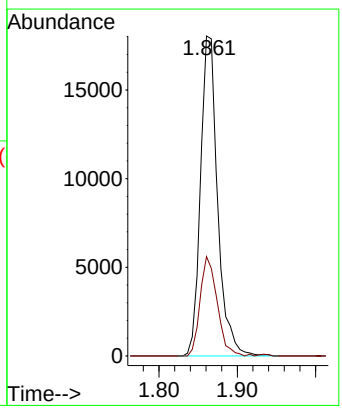
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

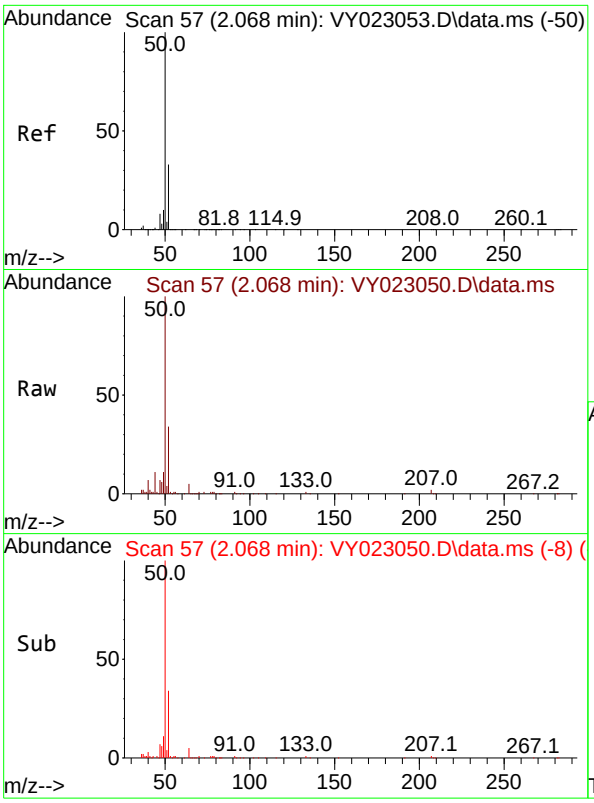


#2
Dichlorodifluoromethane
Concen: 5.969 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 85 Resp: 27351

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.6	49.8

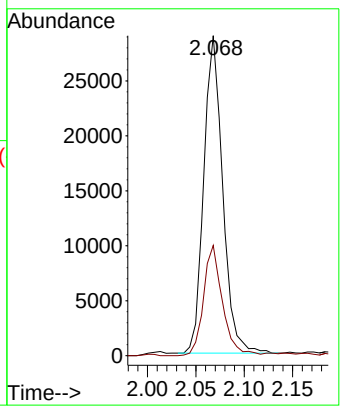




#3
Chloromethane
Concen: 5.291 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 50 Resp: 3926

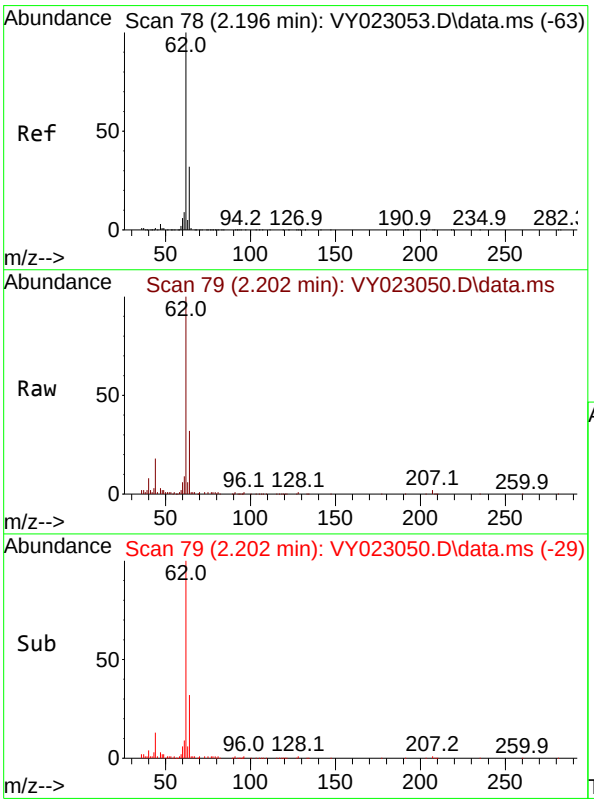
Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

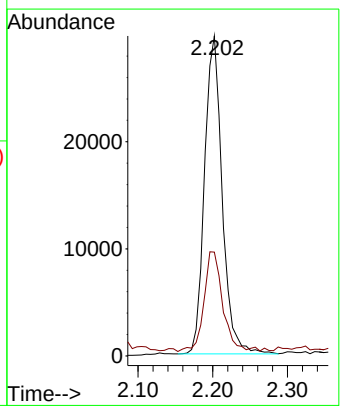
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

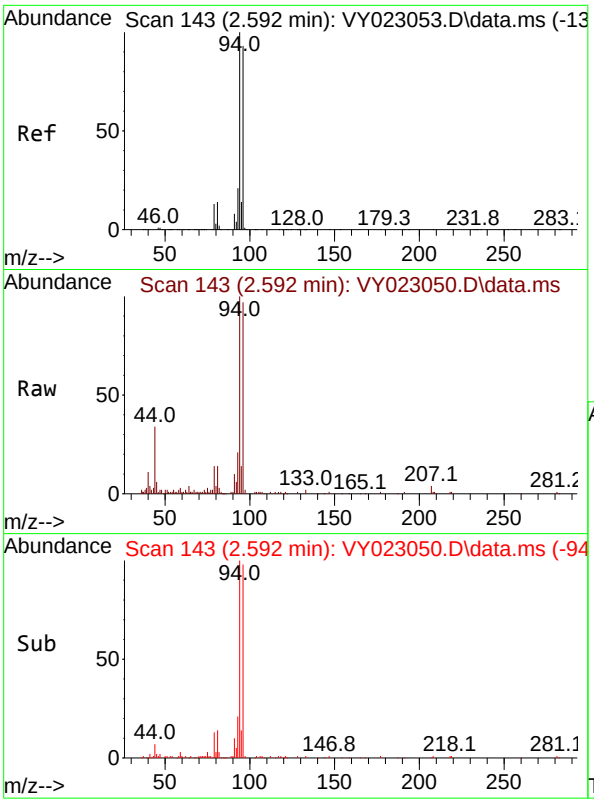


#4
Vinyl Chloride
Concen: 5.312 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 48736

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.4	38.0





#5
Bromomethane
Concen: 5.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

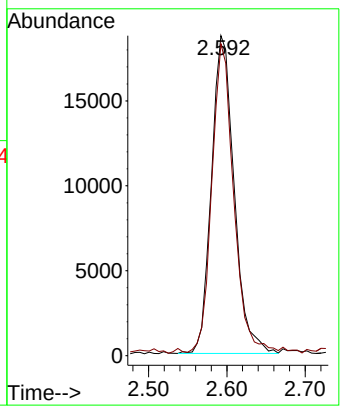
Tgt Ion: 94 Resp: 3777

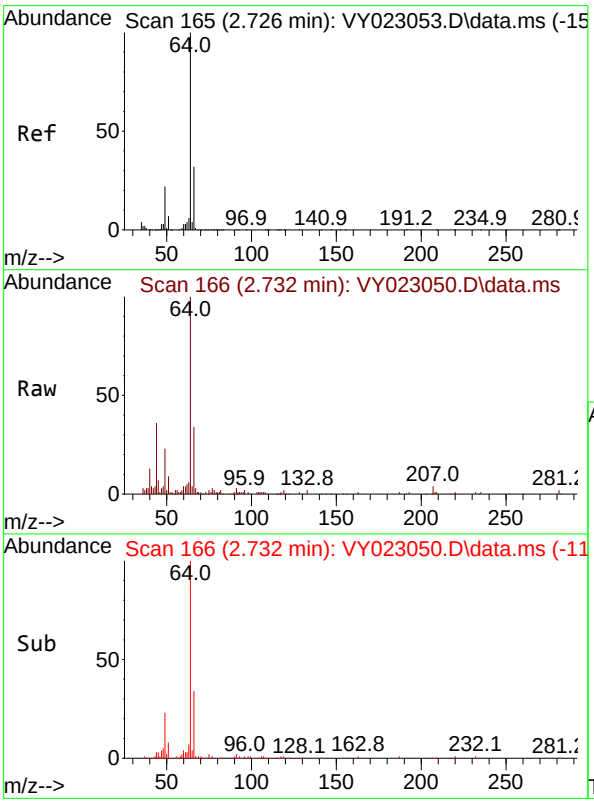
Ion	Ratio	Lower	Upper
94	100		
96	96.5	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

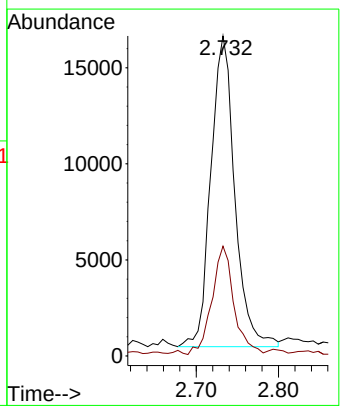


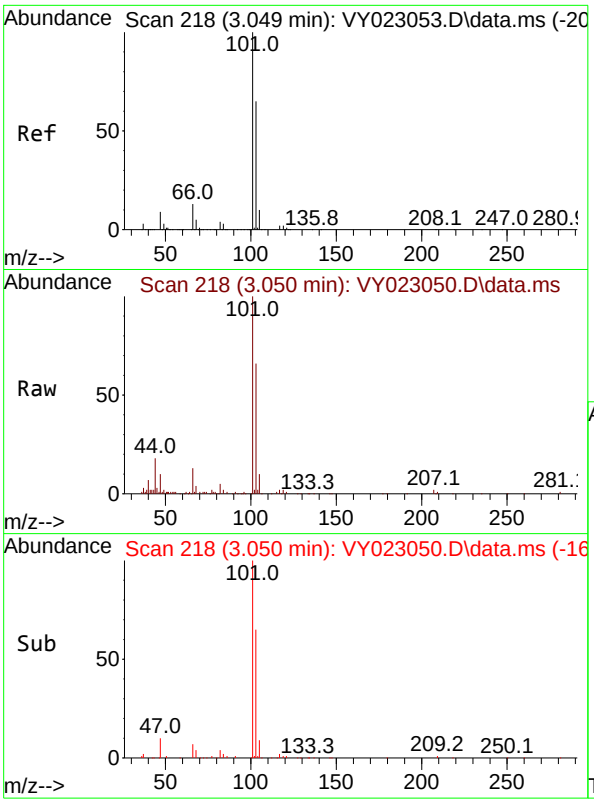


#6
Chloroethane
Concen: 5.380 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 64 Resp: 32816

Ion	Ratio	Lower	Upper
64	100		
66	33.5	25.8	38.6

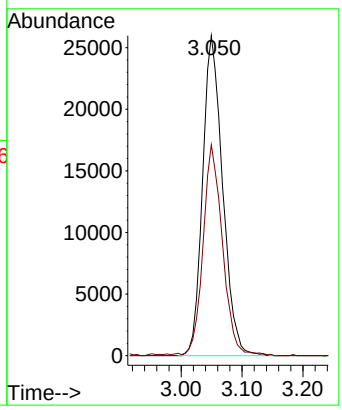




#7
Trichlorofluoromethane
Concen: 5.328 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:101 Resp: 5943

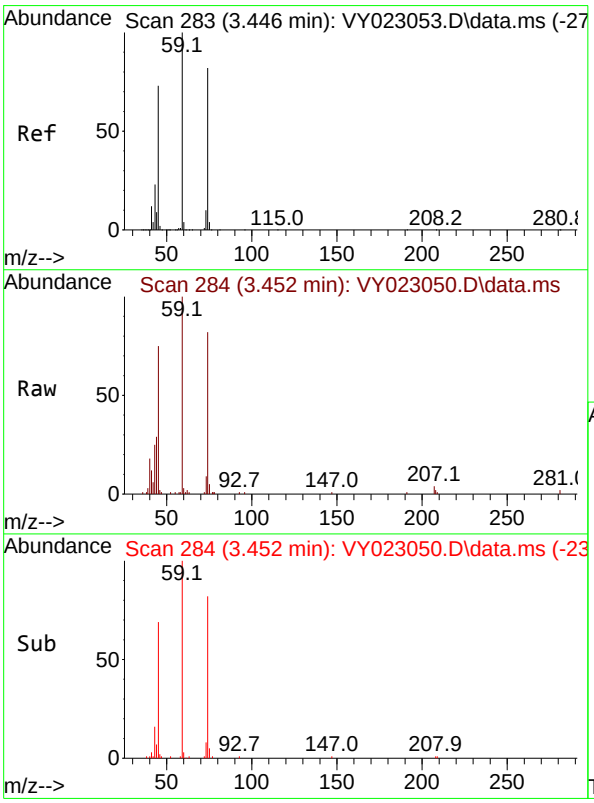
Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

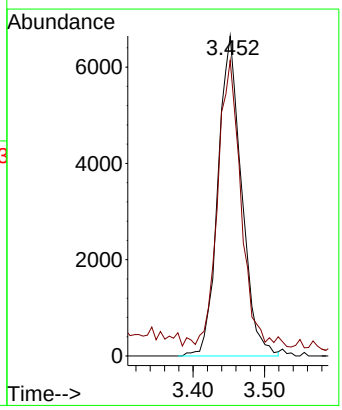
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

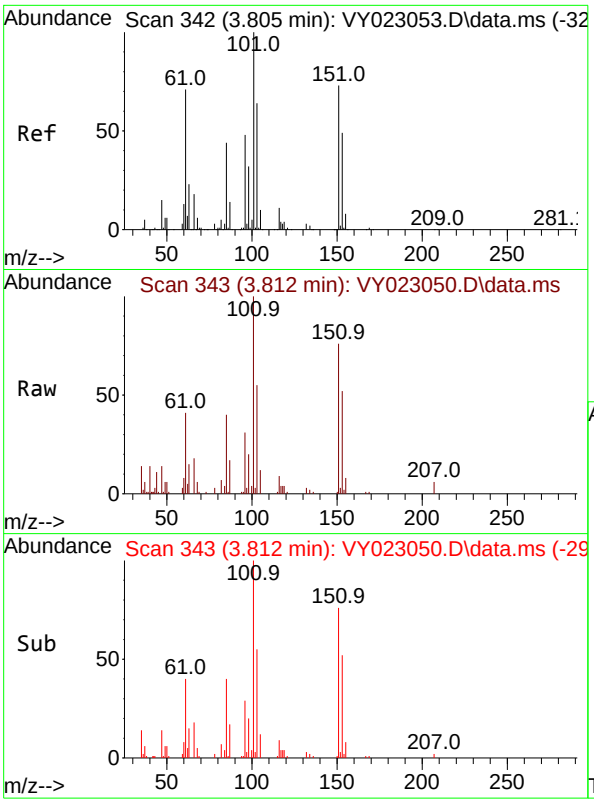


#8
Diethyl Ether
Concen: 5.160 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 74 Resp: 15231

Ion	Ratio	Lower	Upper
74	100		
45	88.2	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.322 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

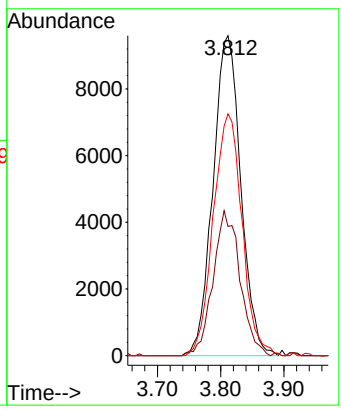
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

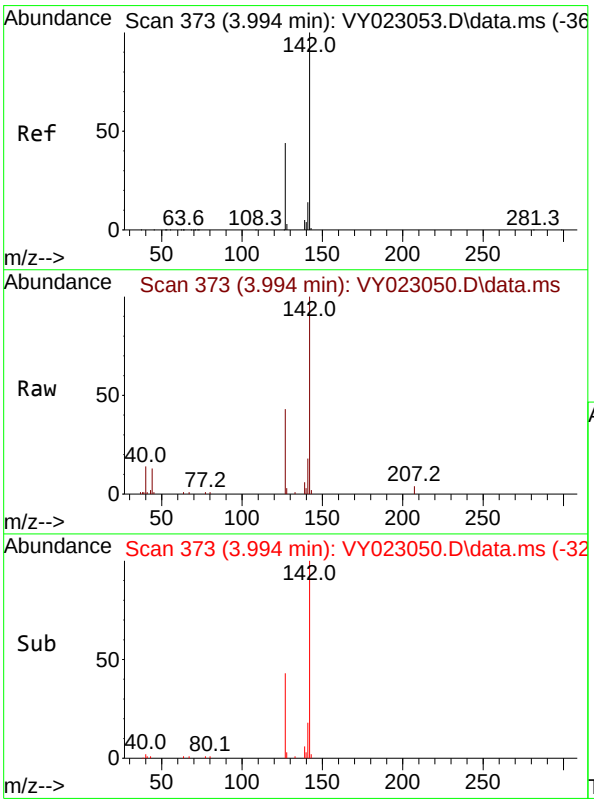
Tgt Ion:101 Resp: 2929

Ion	Ratio	Lower	Upper
101	100		
85	44.1	36.3	54.5
151	78.2	61.5	92.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

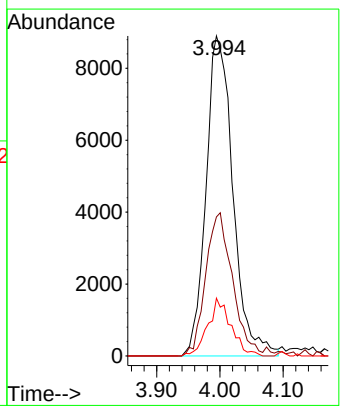


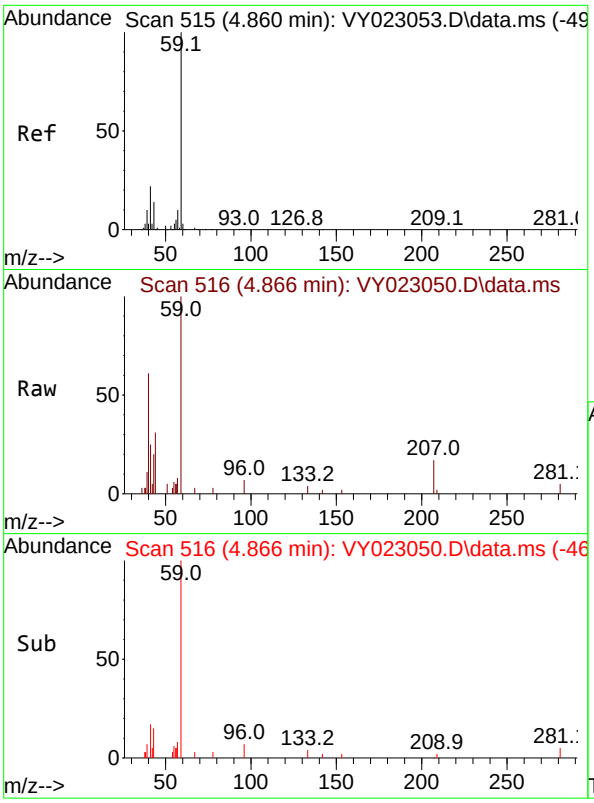


#10
Methyl Iodide
Concen: 4.424 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:142 Resp: 26272

Ion	Ratio	Lower	Upper
142	100		
127	44.6	34.9	52.3
141	15.6	11.3	16.9

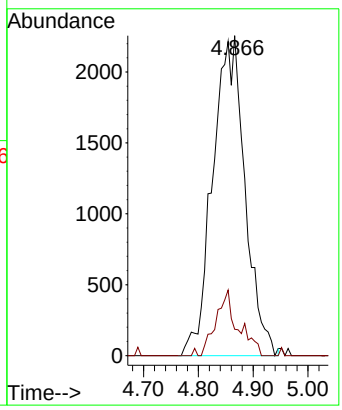




#11
Tert butyl alcohol
Concen: 25.147 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 59 Resp: 921

Ion	Ratio	Lower	Upper
59	100		
57	13.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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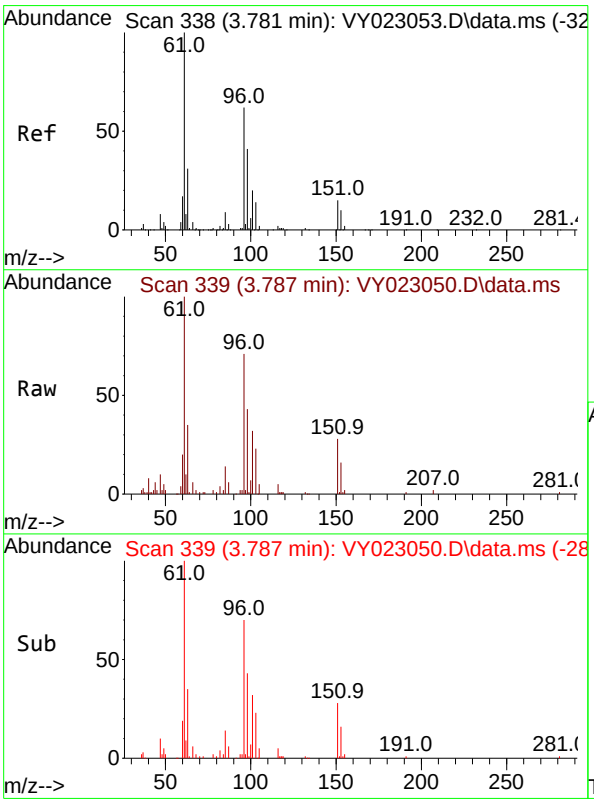
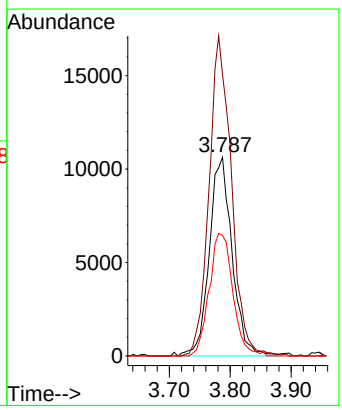
Supervised By :Semsettin Yesilyurt 08/14/2025

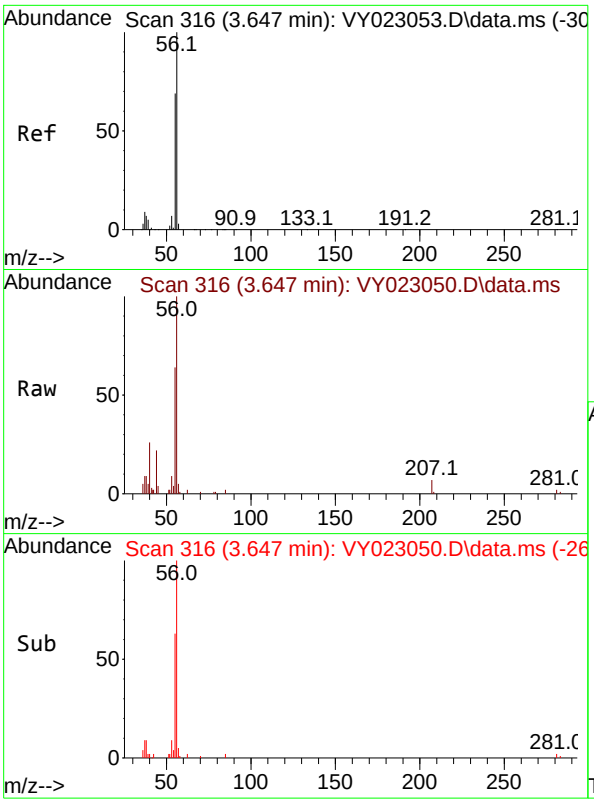


#12
1,1-Dichloroethene
Concen: 5.108 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 27635

Ion	Ratio	Lower	Upper
96	100		
61	141.6	129.4	194.2
98	60.6	52.8	79.2

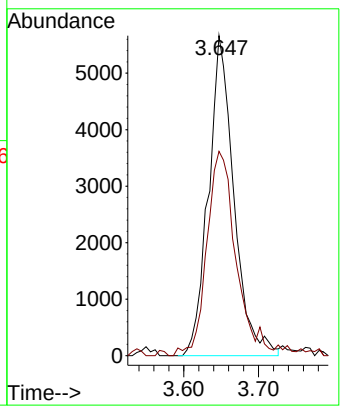




#13
Acrolein
Concen: 24.941 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 56 Resp: 1339

Ion	Ratio	Lower	Upper
56	100		
55	72.8	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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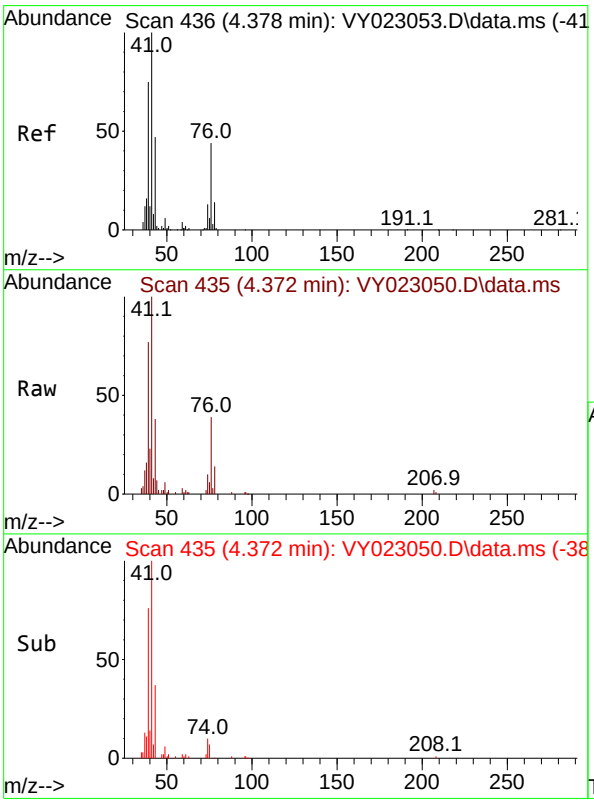
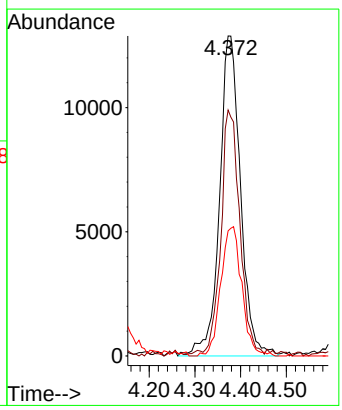
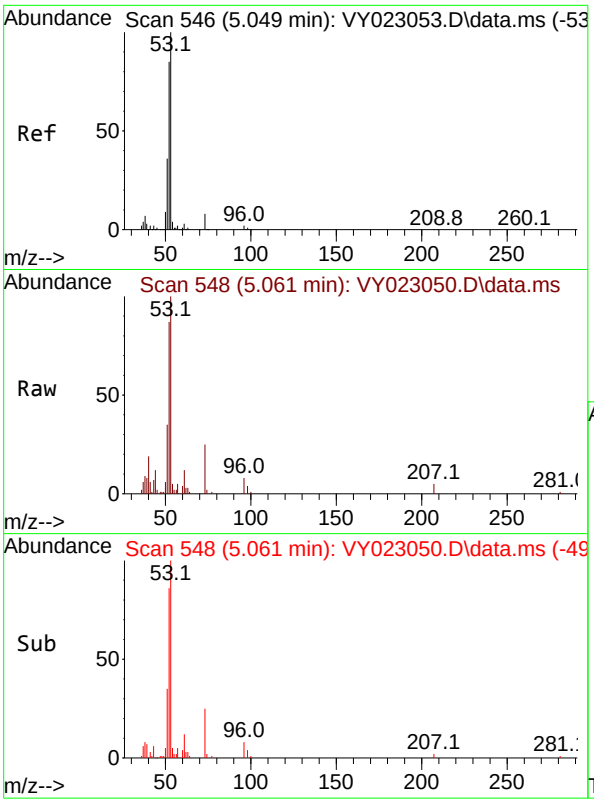


#14
Allyl chloride
Concen: 5.176 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 41201

Ion	Ratio	Lower	Upper
41	100		
39	67.7	59.8	89.6
76	40.4	33.7	50.5

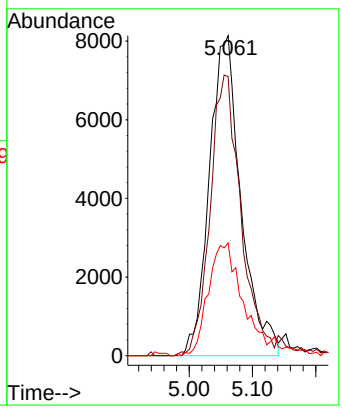




#15
Acrylonitrile
Concen: 23.547 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 53 Resp: 2825

Ion	Ratio	Lower	Upper
53	100		
52	84.9	65.3	97.9
51	40.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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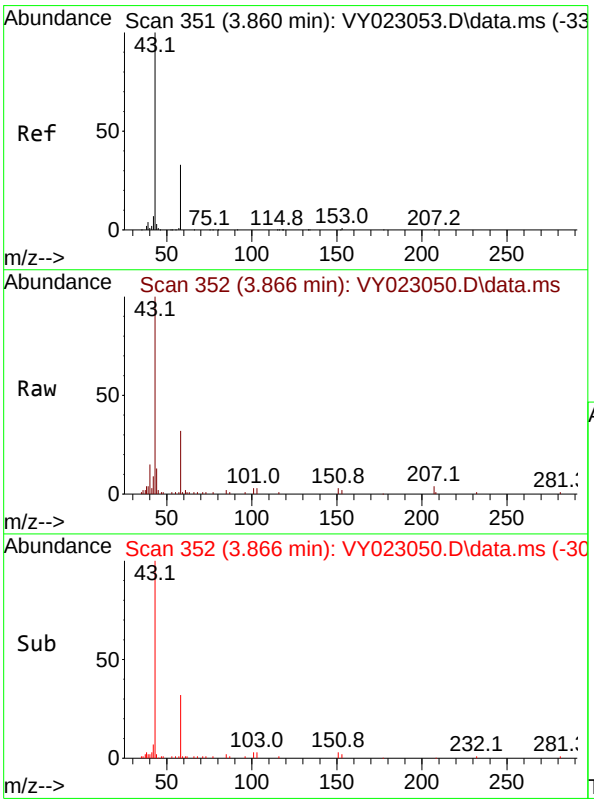
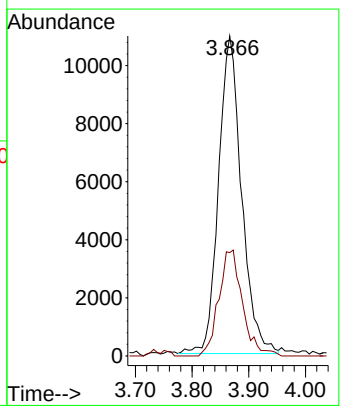
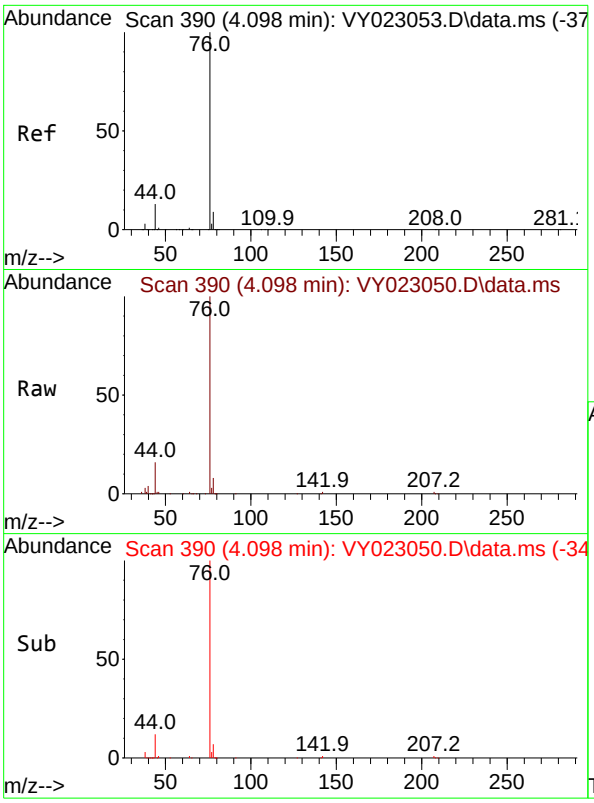


#16
Acetone
Concen: 26.574 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 30803

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7





#17
Carbon Disulfide
Concen: 5.270 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 76 Resp: 9296

Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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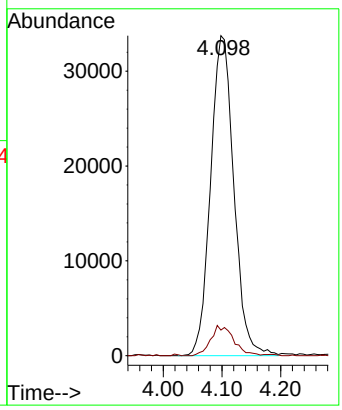
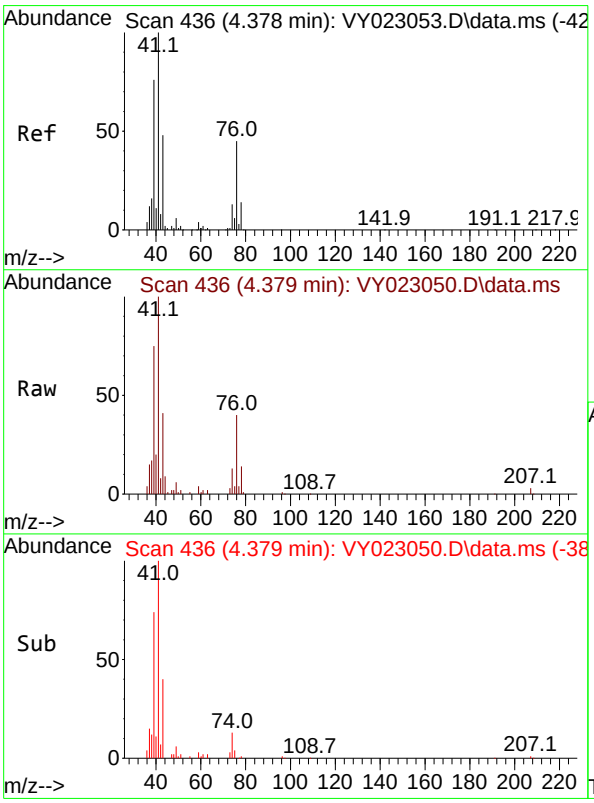
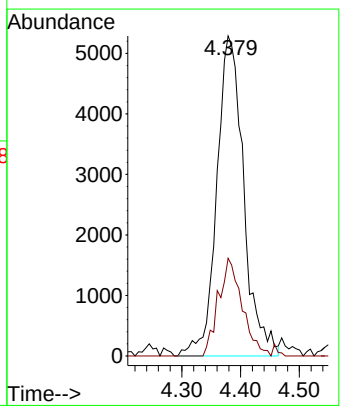


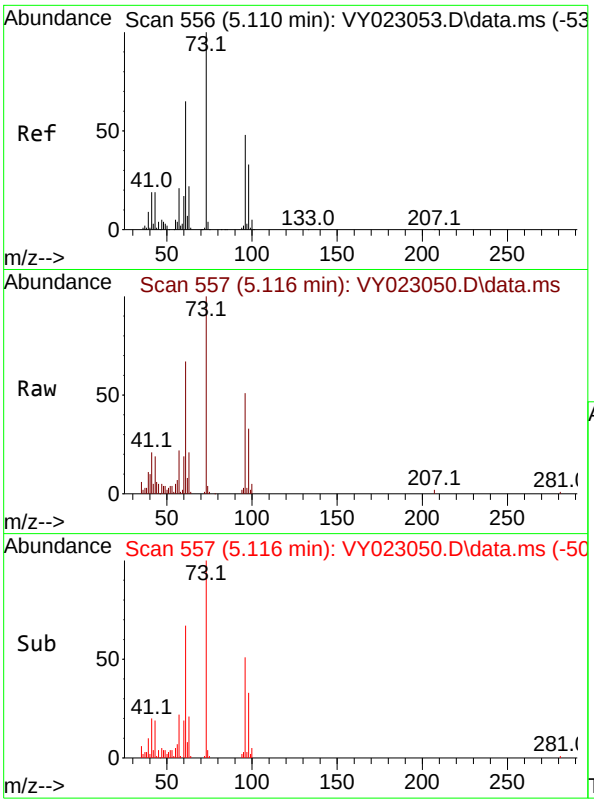


#18
Methyl Acetate
Concen: 4.872 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 16806

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8

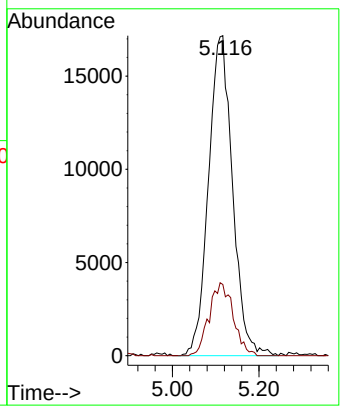




#19
Methyl tert-butyl Ether
Concen: 4.730 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 73 Resp: 6630

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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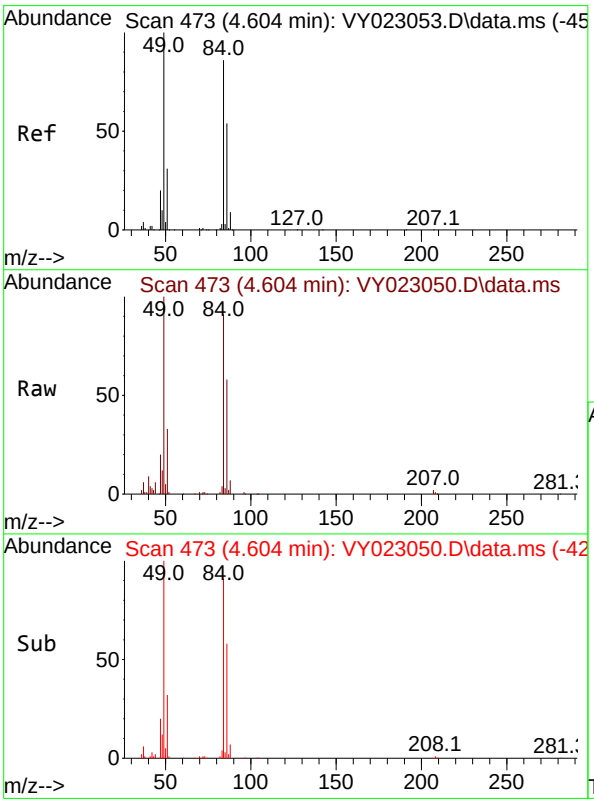
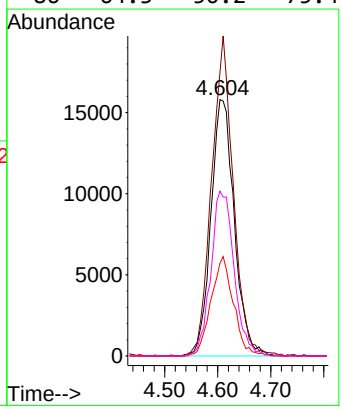
Supervised By :Semsettin Yesilyurt 08/14/2025

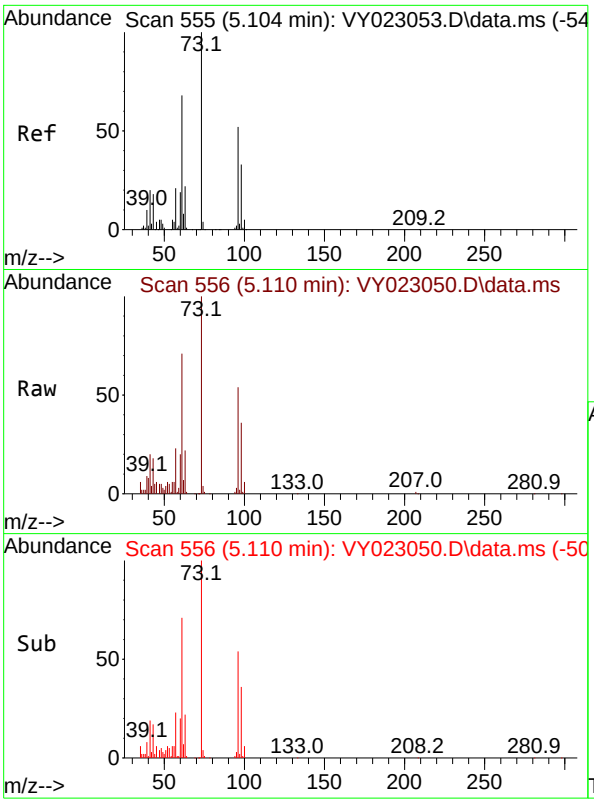


#20
Methylene Chloride
Concen: 5.657 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 84 Resp: 48322

Ion	Ratio	Lower	Upper
84	100		
49	110.5	93.0	139.6
51	36.2	29.0	43.4
86	64.3	50.2	75.4

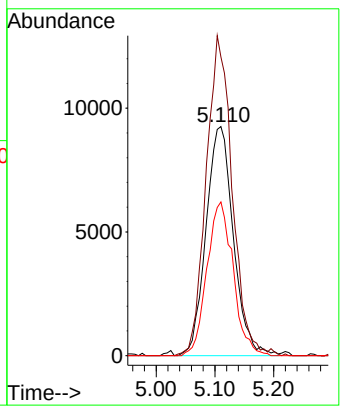




#21
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 3002

Ion	Ratio	Lower	Upper
96	100		
61	129.7	104.8	157.2
98	67.2	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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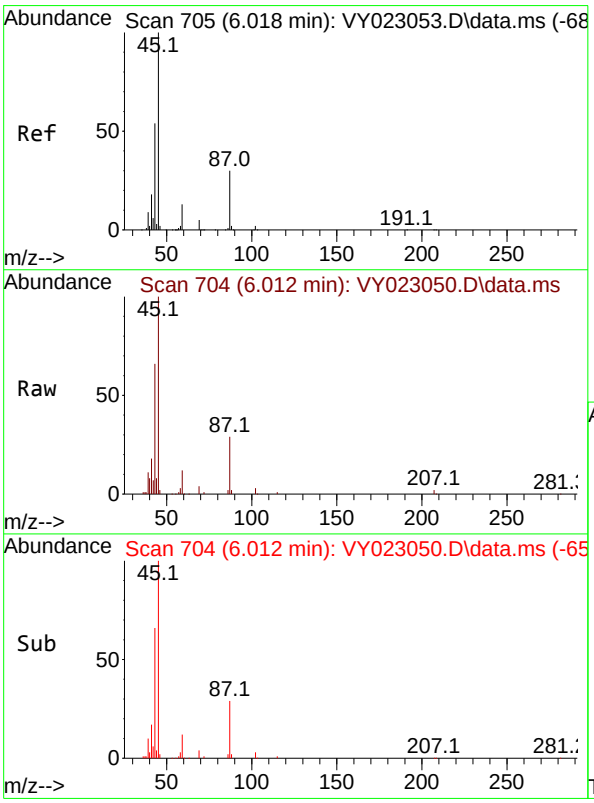
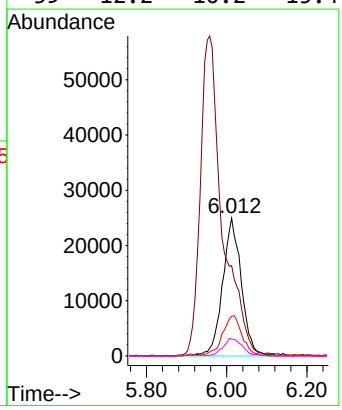
Supervised By :Semsettin Yesilyurt 08/14/2025

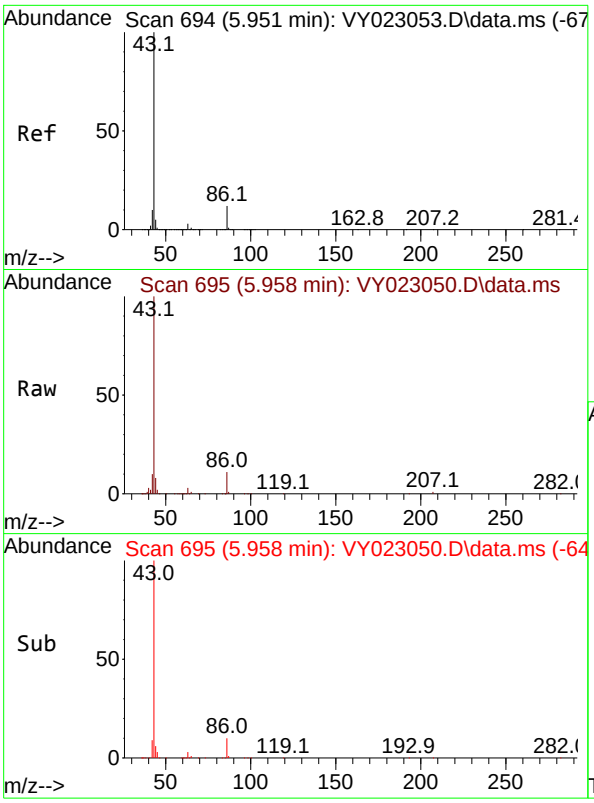


#22
Diisopropyl ether
Concen: 4.679 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 45 Resp: 80938

Ion	Ratio	Lower	Upper
45	100		
43	64.9	43.4	65.0
87	28.9	24.4	36.6
59	12.2	10.2	15.4





#23
Vinyl Acetate
Concen: 23.196 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 22186

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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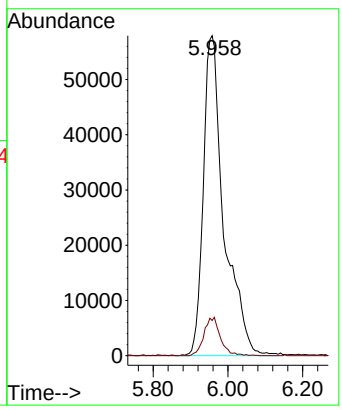
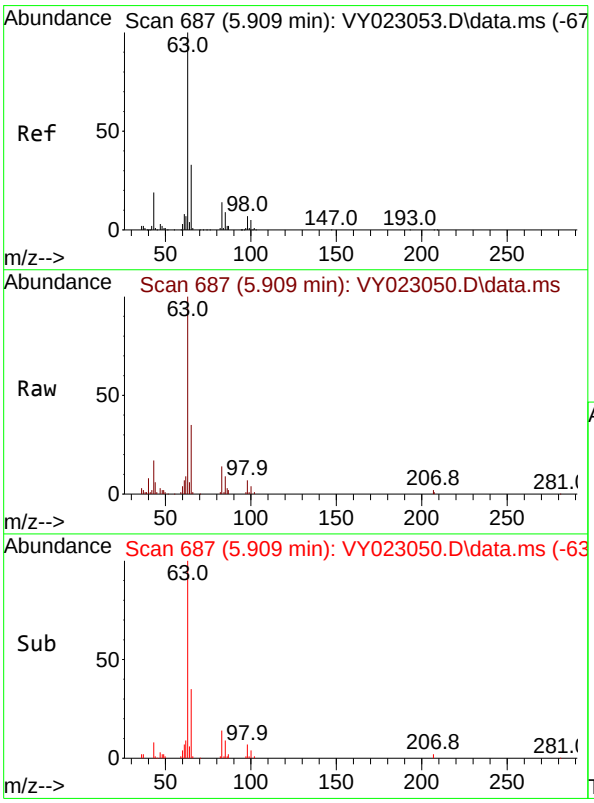
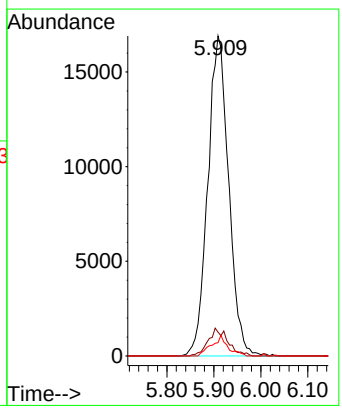


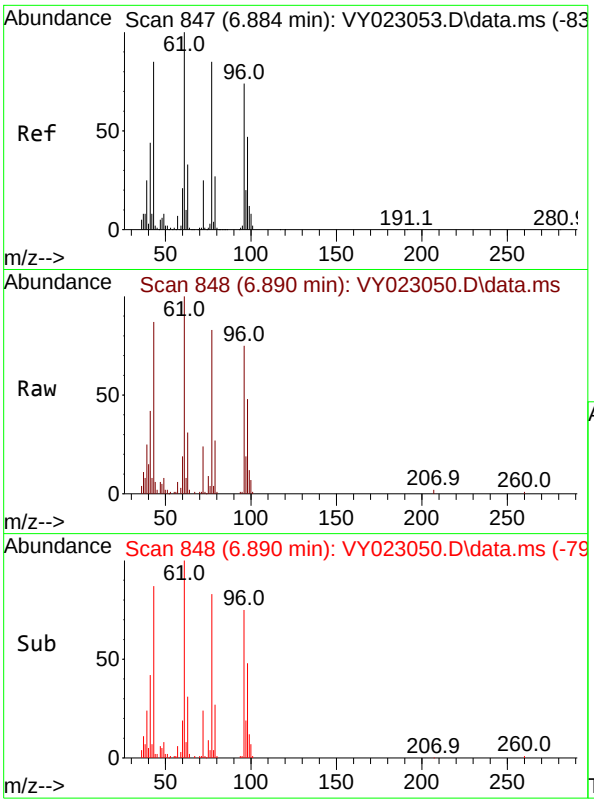


#24
1,1-Dichloroethane
Concen: 4.931 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 52152

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.1	2.4	7.1





#25
2-Butanone
Concen: 23.991 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 3782

Ion	Ratio	Lower	Upper
43	100		
72	28.0	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/14/2025
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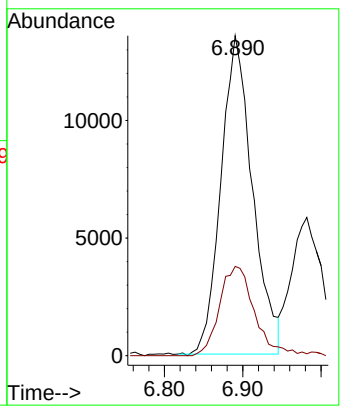
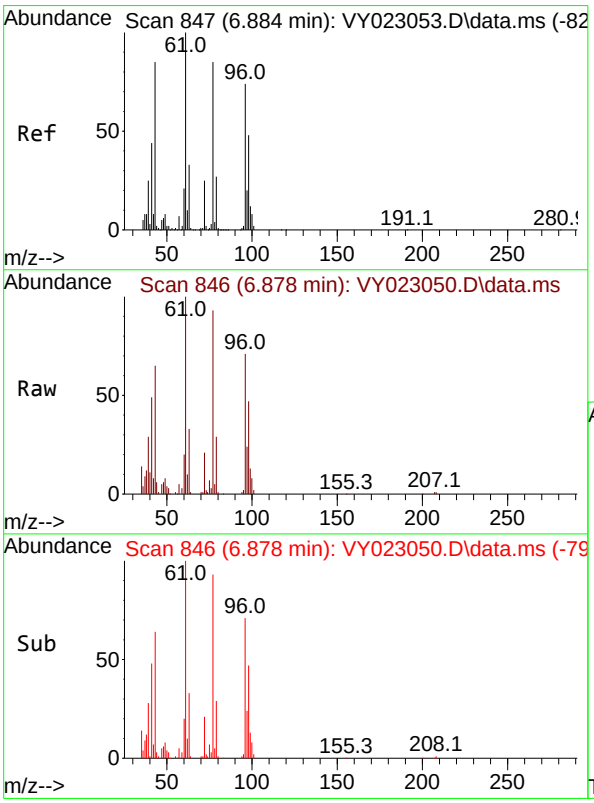
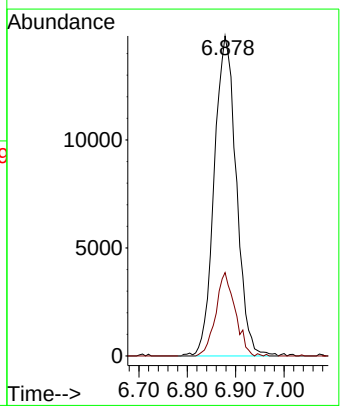


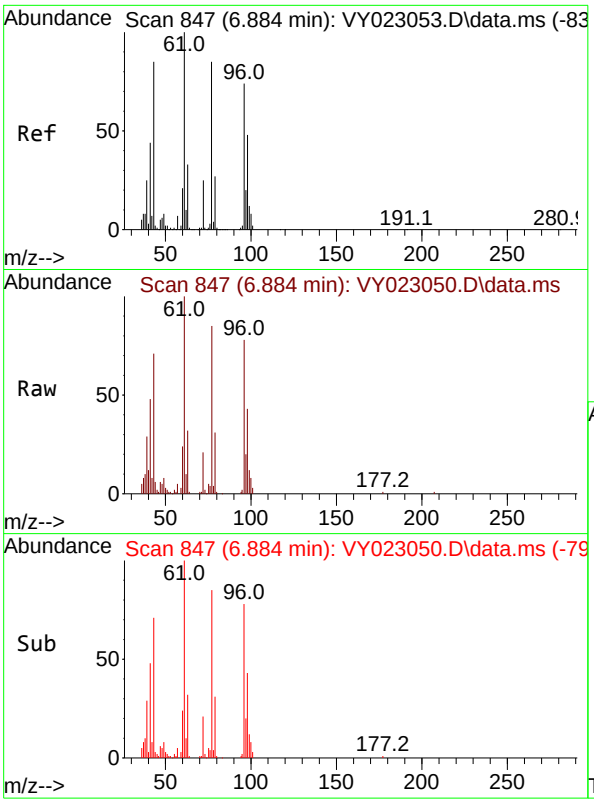


#26
2,2-Dichloropropane
Concen: 5.147 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 77 Resp: 46964

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.6	34.8

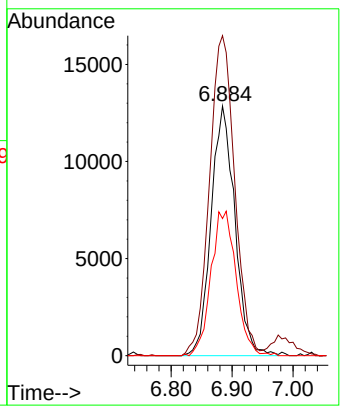




#27
cis-1,2-Dichloroethene
Concen: 4.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 3487

Ion	Ratio	Lower	Upper
96	100		
61	135.9	0.0	278.6
98	61.4	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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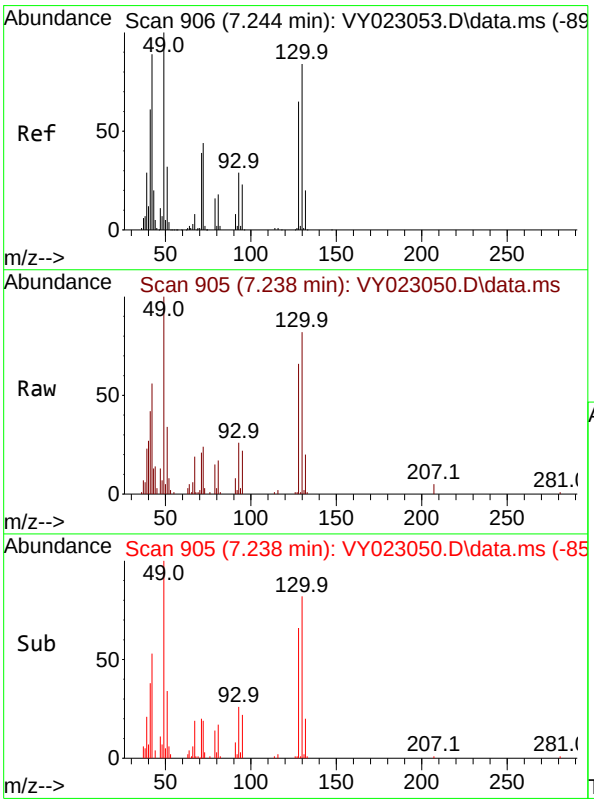
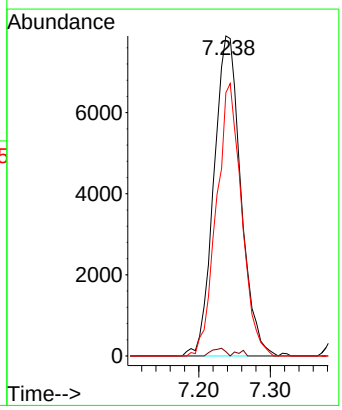
Supervised By :Semsettin Yesilyurt 08/14/2025

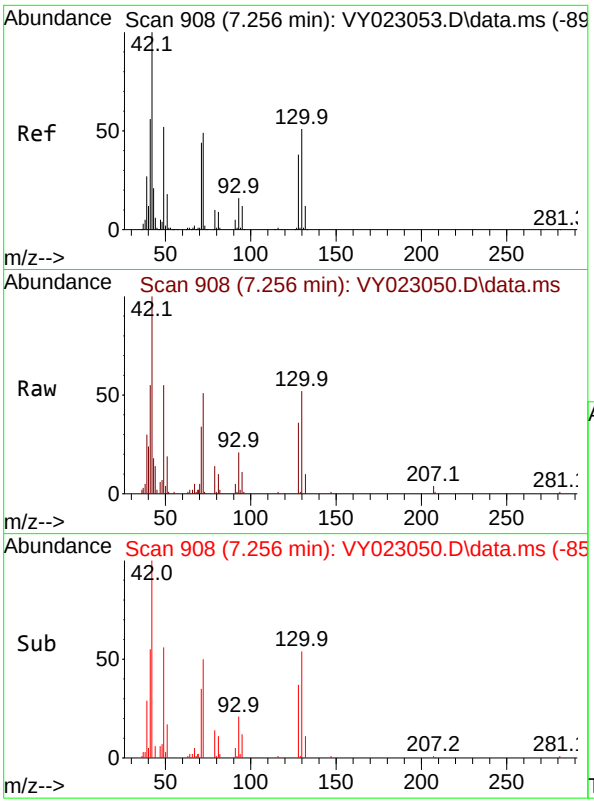


#28
Bromochloromethane
Concen: 4.913 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 49 Resp: 20615

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.2
130	79.7	66.4	99.6

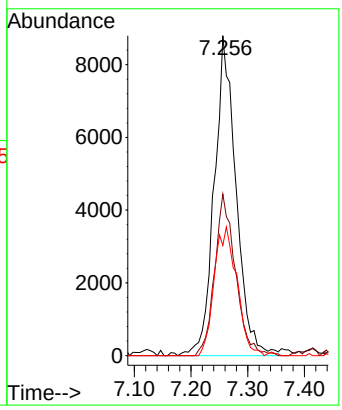




#29
Tetrahydrofuran
Concen: 24.035 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 42 Resp: 2348

Ion	Ratio	Lower	Upper
42	100		
72	48.1	39.4	59.2
71	41.8	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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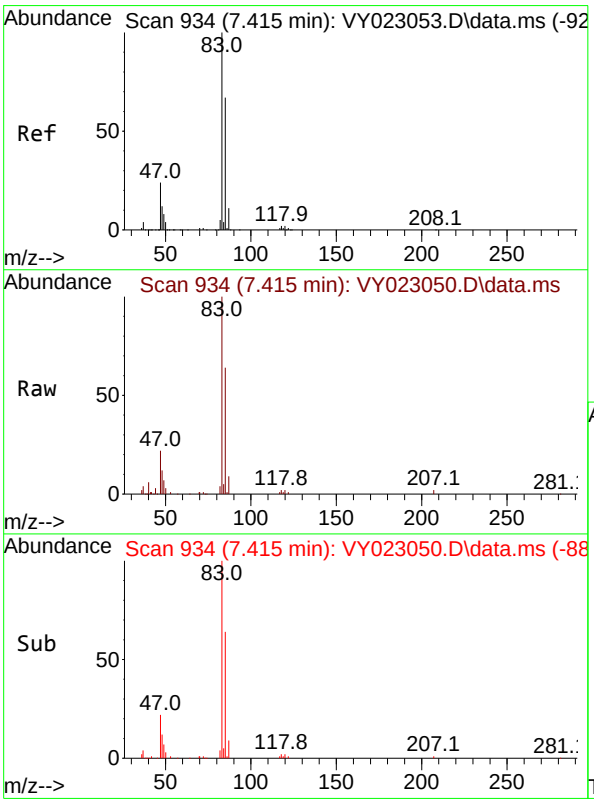
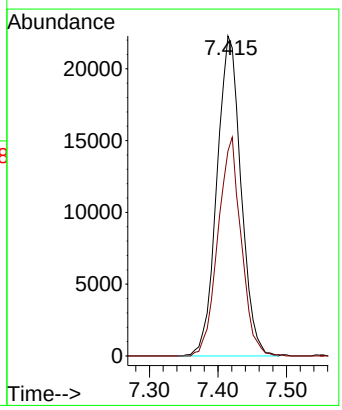
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

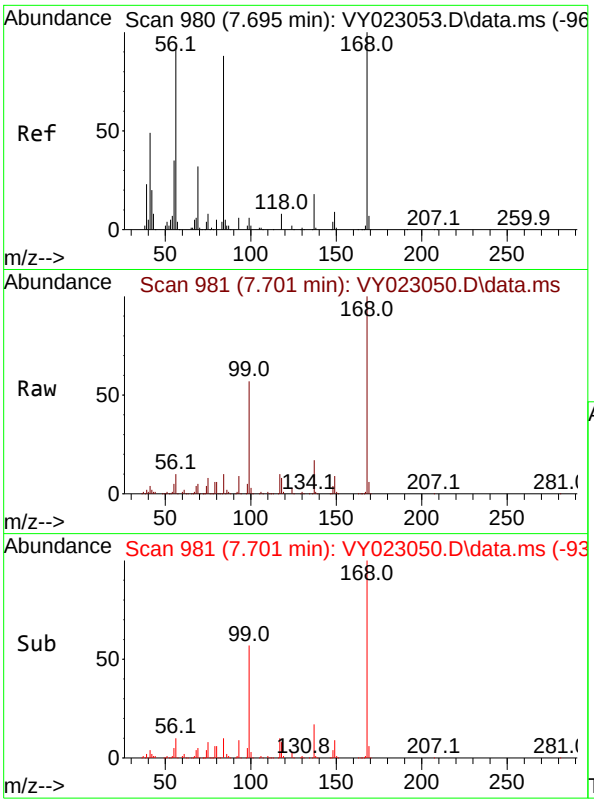


#30
Chloroform
Concen: 4.987 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 54392

Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.8	80.8





#31
Cyclohexane
Concen: 5.856 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 56 Resp: 5836

Ion	Ratio	Lower	Upper
56	100		
69	55.3	28.2	42.2
84	105.9	76.6	114.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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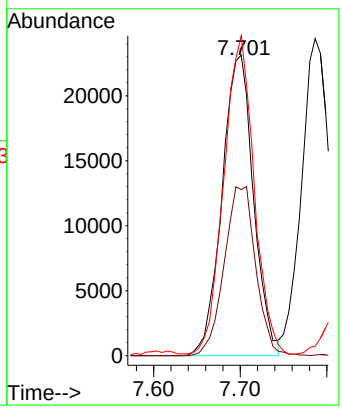
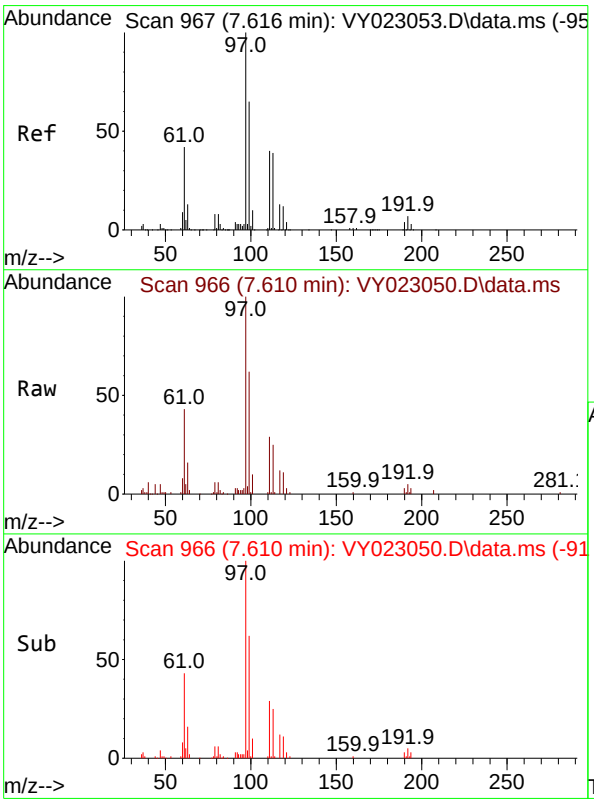
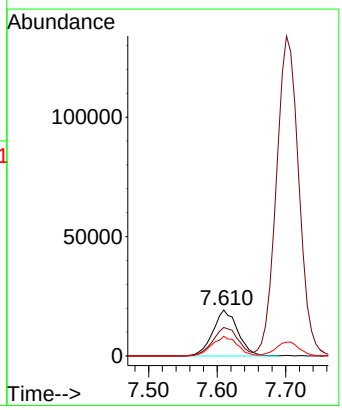


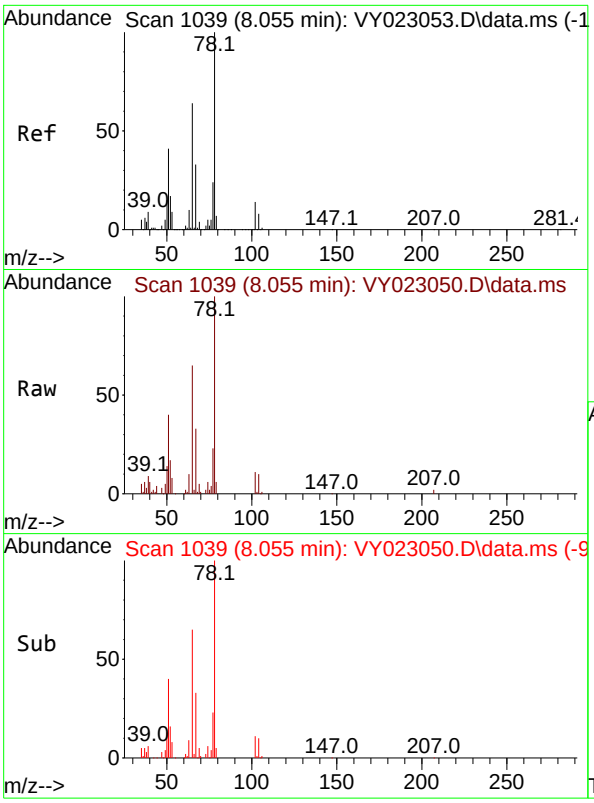


#32
1,1,1-Trichloroethane
Concen: 5.003 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 97 Resp: 48413

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.6	77.4
61	43.4	34.2	51.2

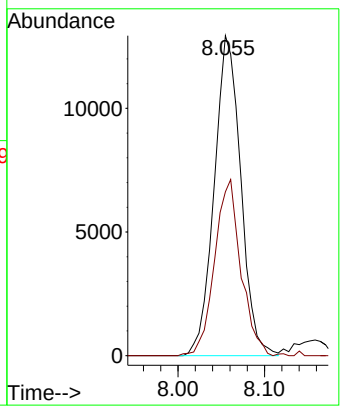




#33
1,2-Dichloroethane-d4
Concen: 5.152 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 65 Resp: 2756

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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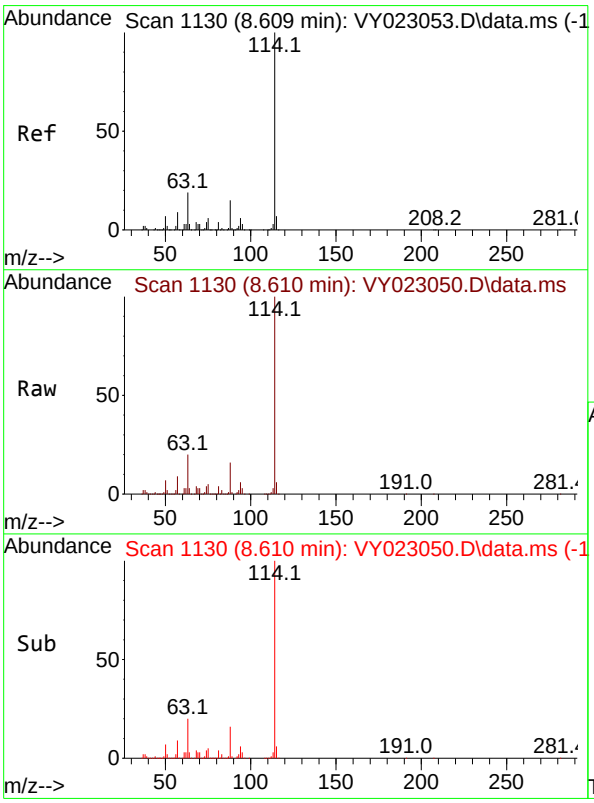
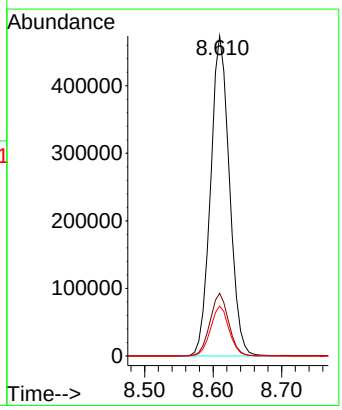
Supervised By :Semsettin Yesilyurt 08/14/2025

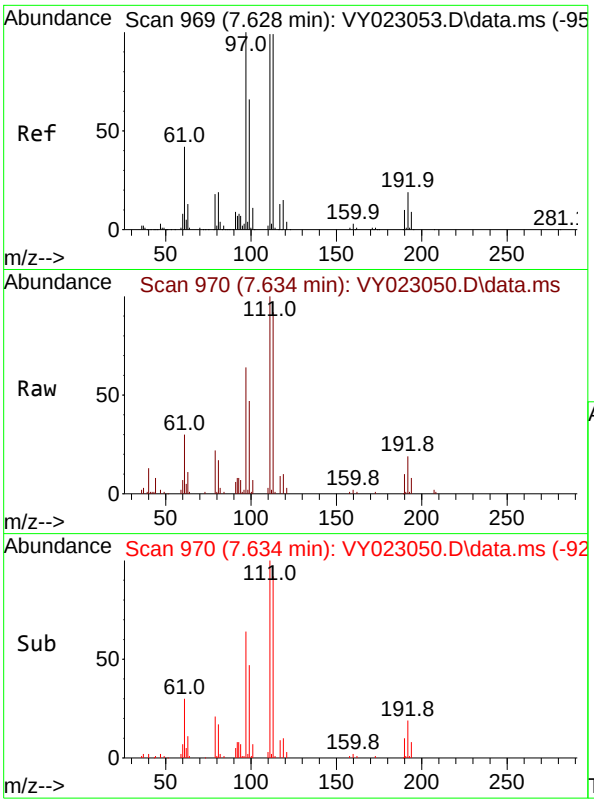


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:114 Resp: 904866

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.4
88	15.5	0.0	30.0

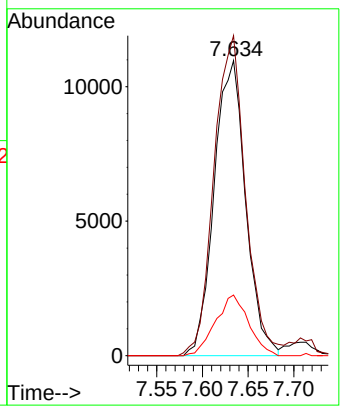




#35
Dibromofluoromethane
Concen: 4.851 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:113 Resp: 2626

Ion	Ratio	Lower	Upper
113	100		
111	108.8	81.1	121.7
192	21.6	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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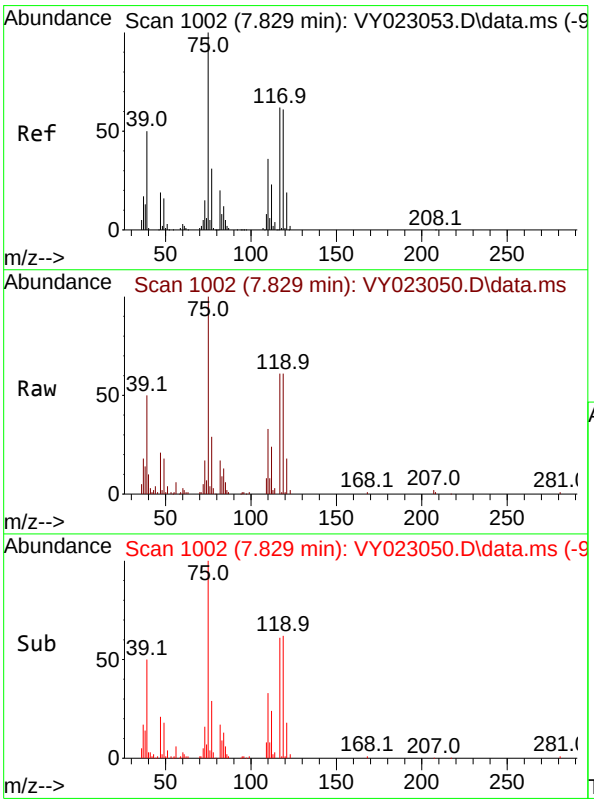
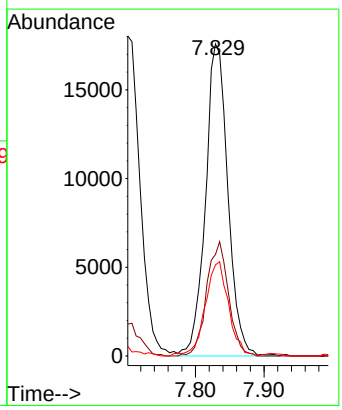
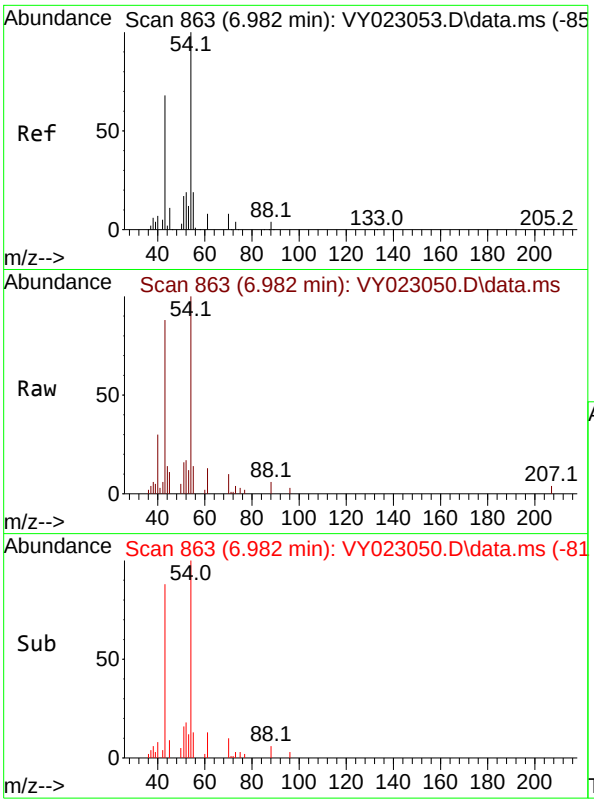


#36
1,1-Dichloropropene
Concen: 4.968 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 39978

Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.1	54.4
77	31.4	24.6	37.0





#37
Ethyl Acetate
Concen: 4.461 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 1508

Ion	Ratio	Lower	Upper
43	100		
61	18.1	11.9	17.9
70	11.6	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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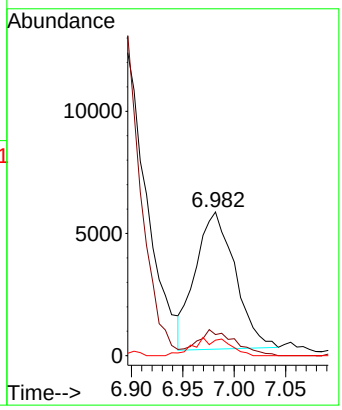
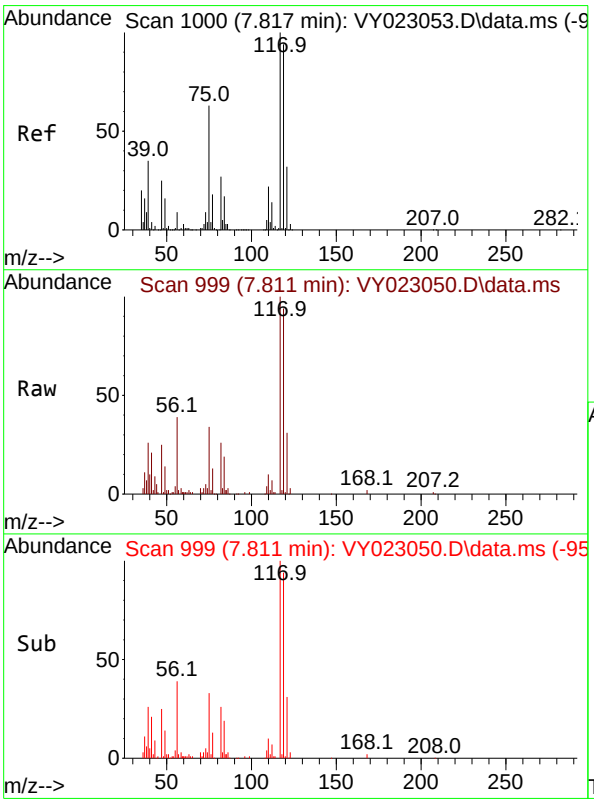
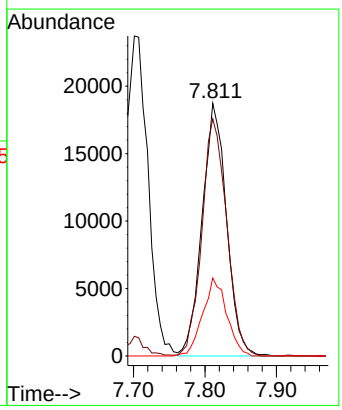


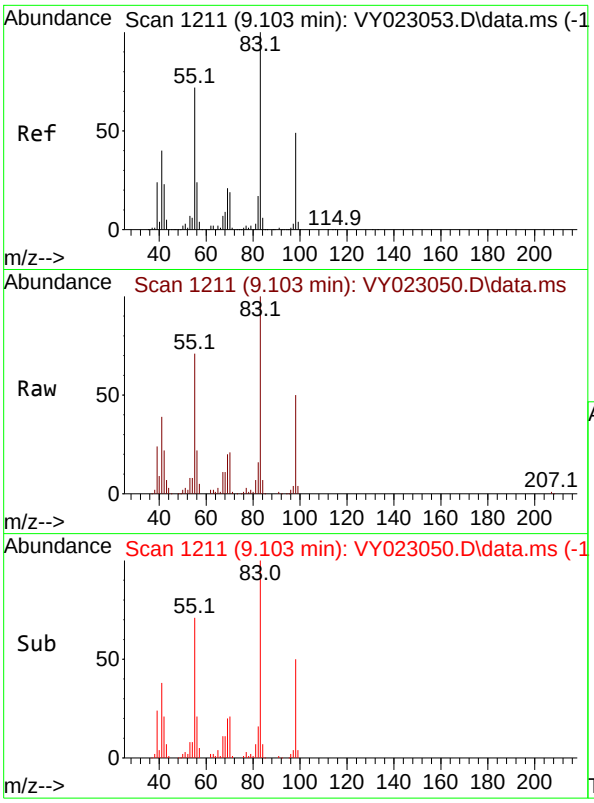


#38
Carbon Tetrachloride
Concen: 5.076 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 44360

Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.6	113.4
121	30.8	25.8	38.8





#39
Methylcyclohexane
Concen: 4.901 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 5193

Ion	Ratio	Lower	Upper
83	100		
55	71.1	57.6	86.4
98	50.2	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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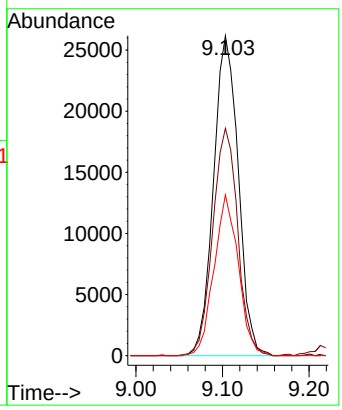
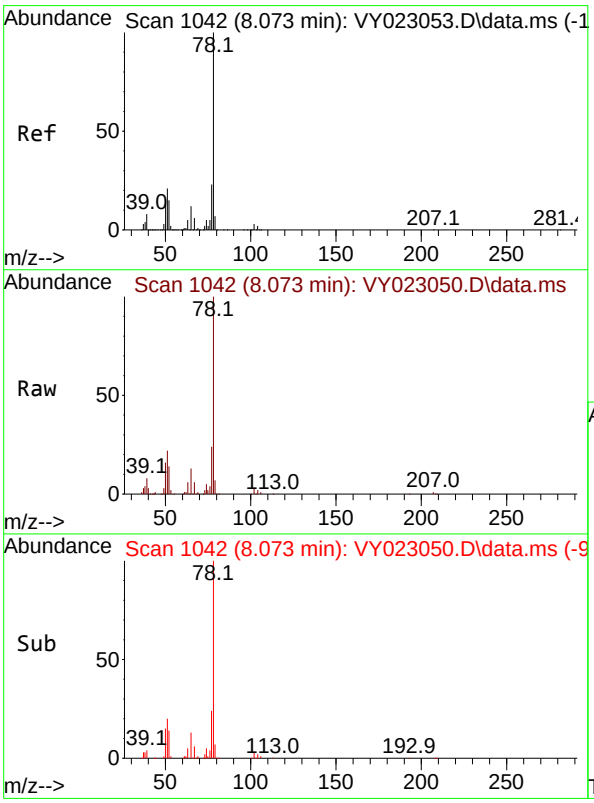
Supervised By :Semsettin Yesilyurt 08/14/2025

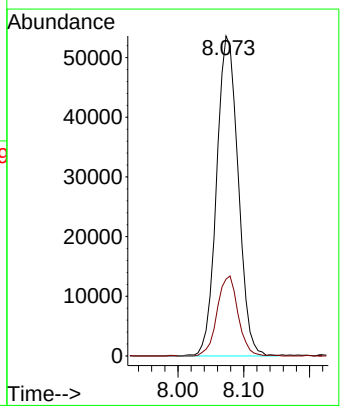


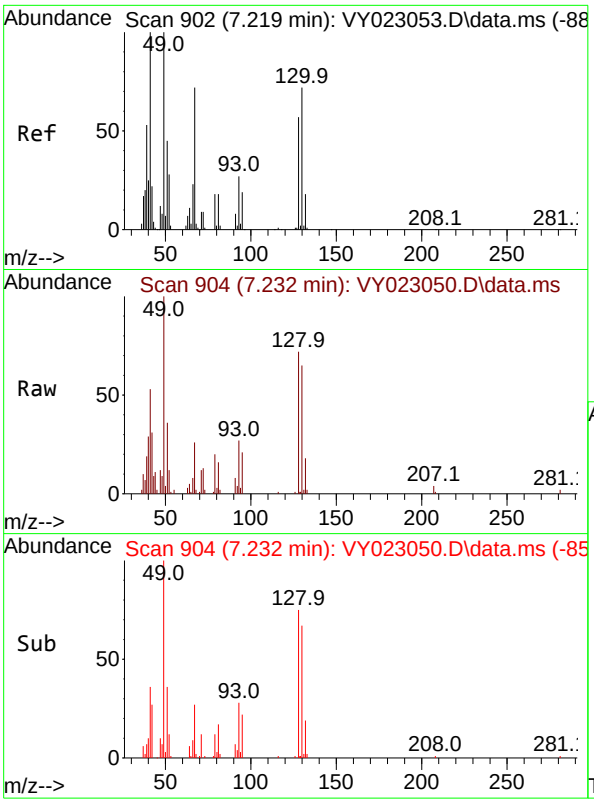


#40
Benzene
Concen: 4.939 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 78 Resp: 122482

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0

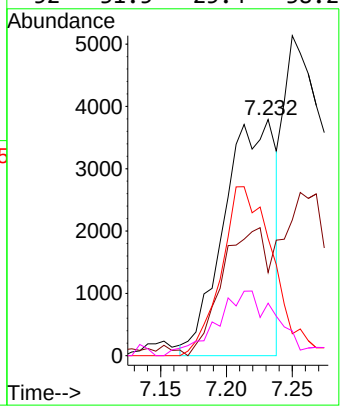




#41
Methacrylonitrile
Concen: 5.247 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 1024

Ion	Ratio	Lower	Upper
41	100		
39	47.1	43.4	65.2
67	72.4	63.6	95.4
52	31.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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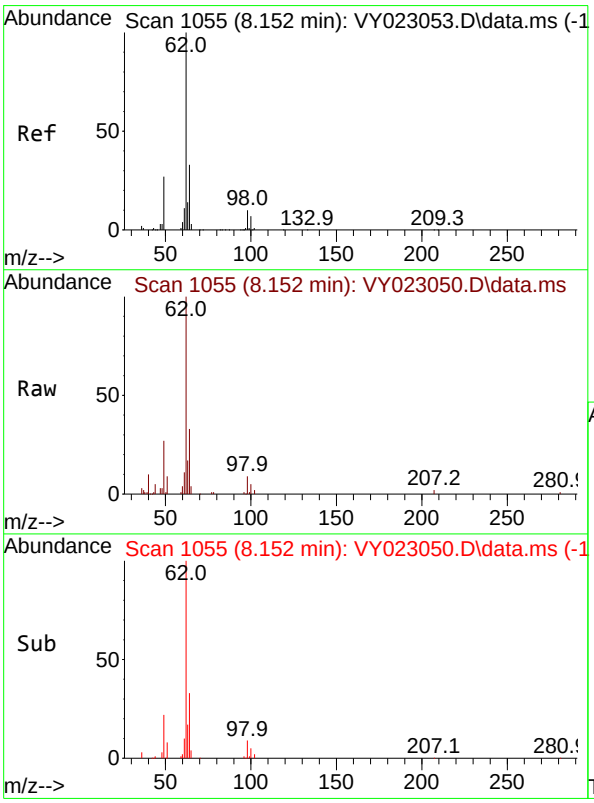
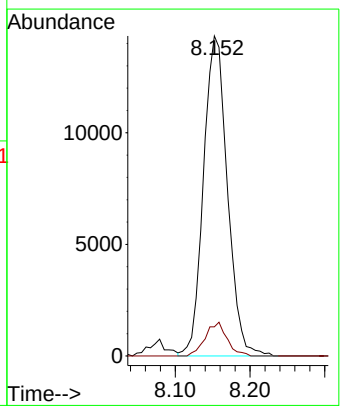
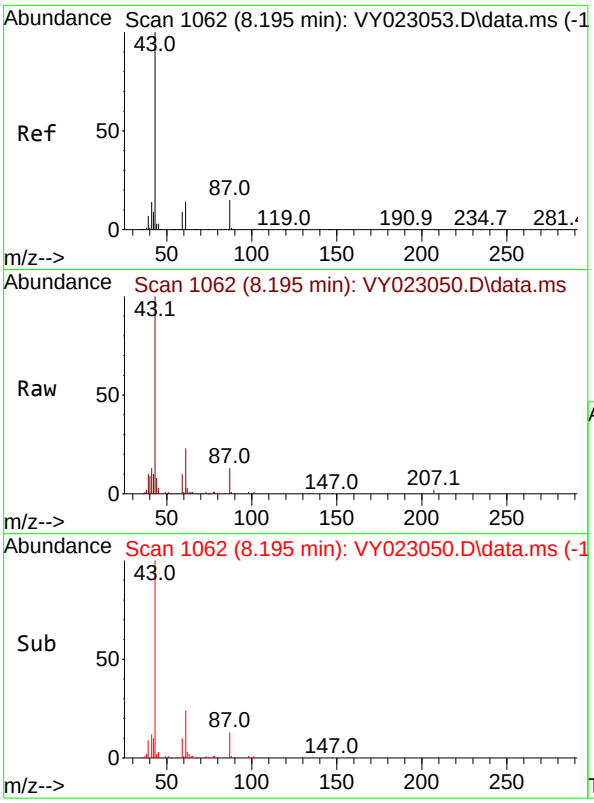


#42
1,2-Dichloroethane
Concen: 4.946 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 31902

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6





#43
Isopropyl Acetate
Concen: 4.668 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 3189

Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.4	24.6
87	14.4	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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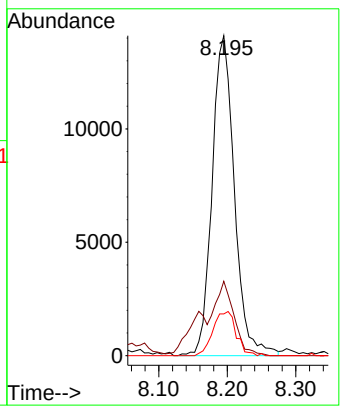
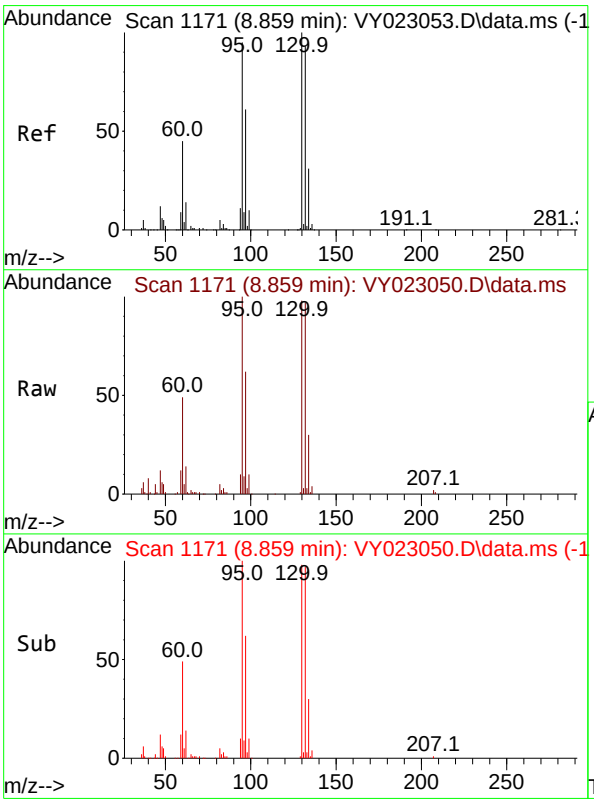
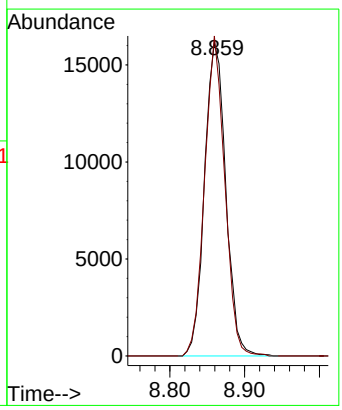


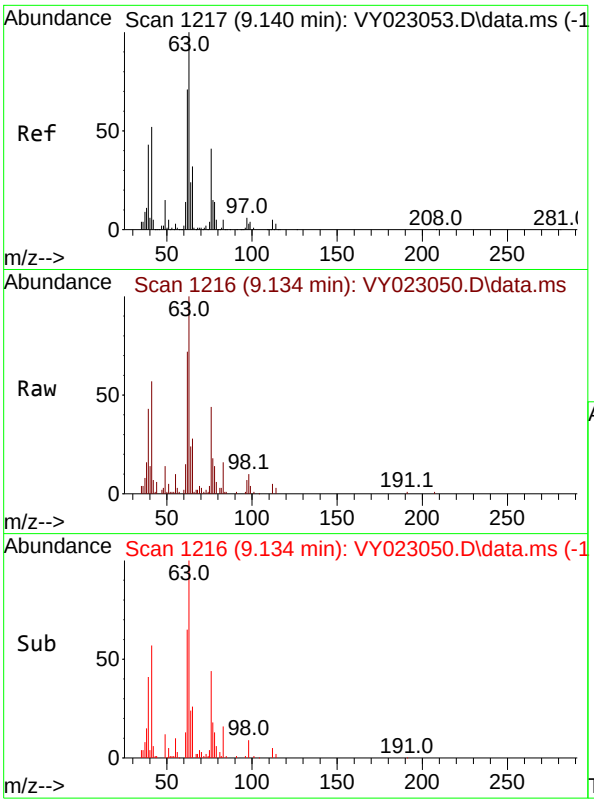


#44
Trichloroethene
Concen: 5.001 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:130 Resp: 32050

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	190.2





#45
1,2-Dichloropropane
Concen: 4.805 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 2741

Ion	Ratio	Lower	Upper
63	100		
65	27.7	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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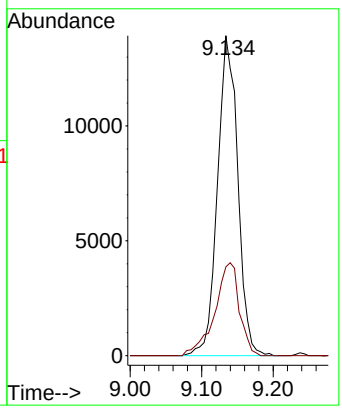
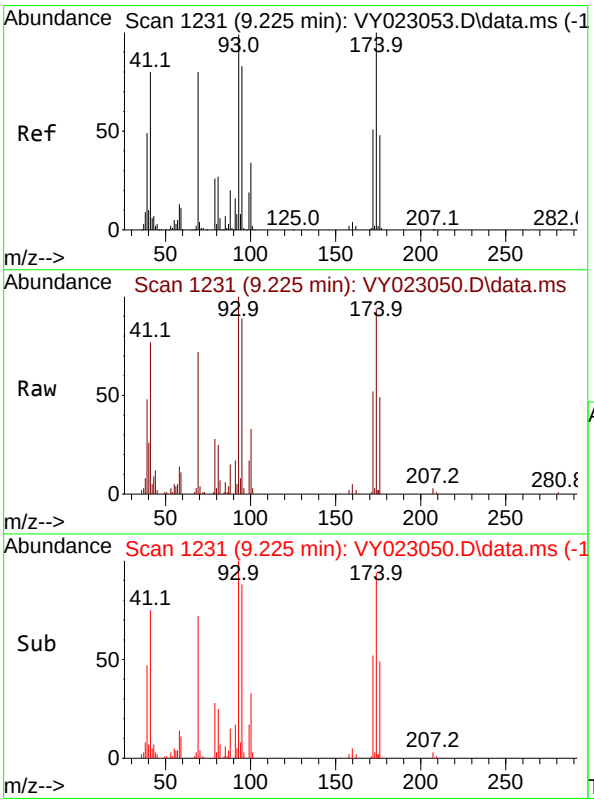
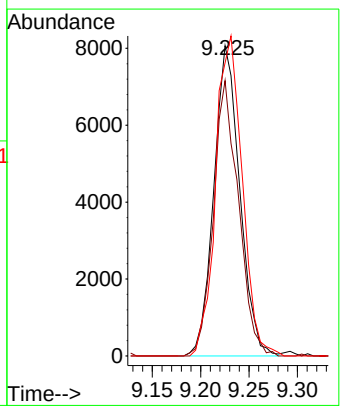


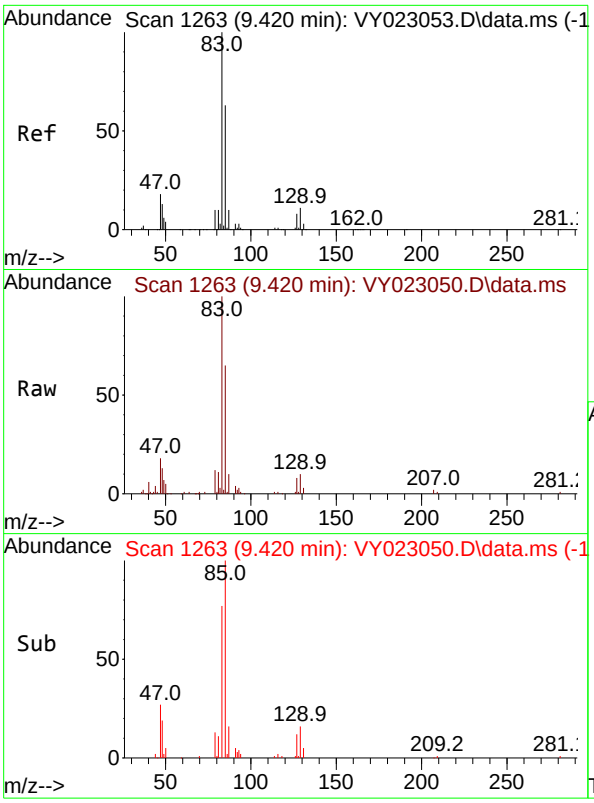


#46
Dibromomethane
Concen: 4.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 93 Resp: 15033

Ion	Ratio	Lower	Upper
93	100		
95	86.0	66.5	99.7
174	106.0	81.8	122.8

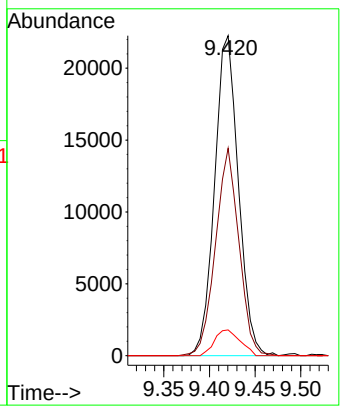




#47
Bromodichloromethane
Concen: 4.785 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 4032

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.2	75.4
127	8.1	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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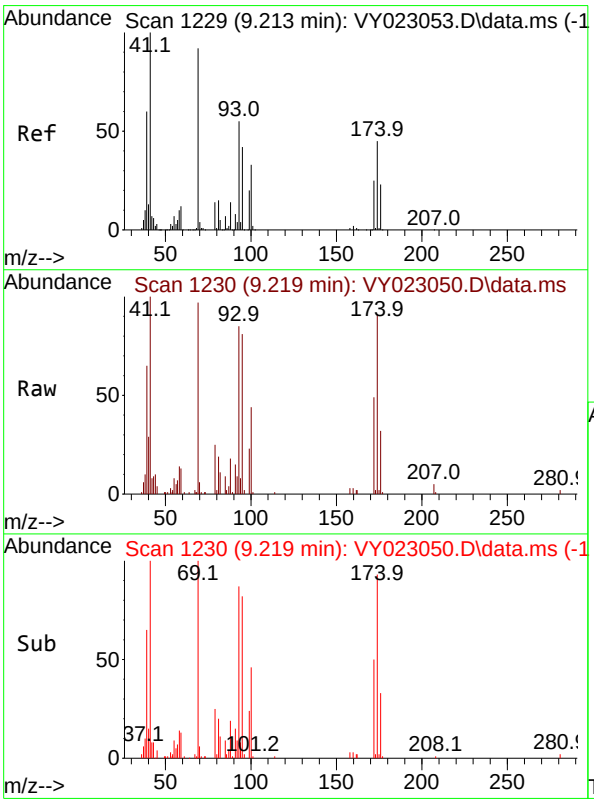
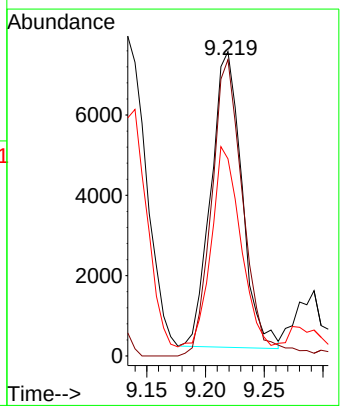
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

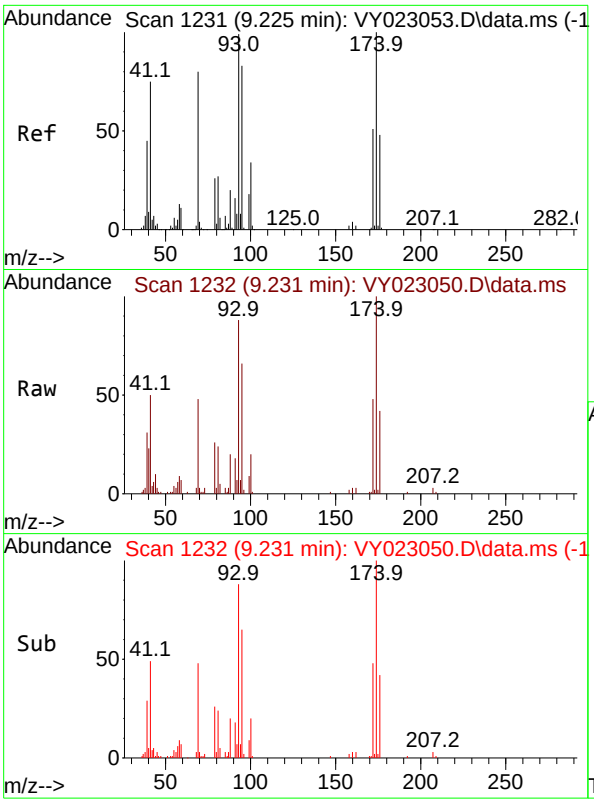


#48
Methyl methacrylate
Concen: 4.122 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 13477

Ion	Ratio	Lower	Upper
41	100		
69	102.1	73.2	109.8
39	65.2	47.0	70.4





#49
1,4-Dioxane
Concen: 89.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 88 Resp: 345

Ion	Ratio	Lower	Upper
88	100		
43	38.3	24.3	36.5
58	74.4	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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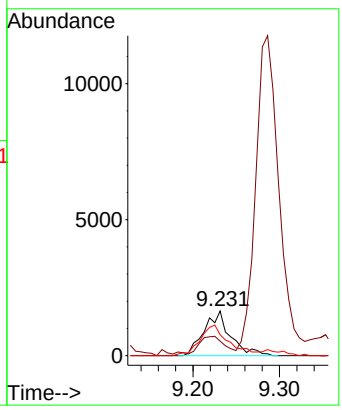
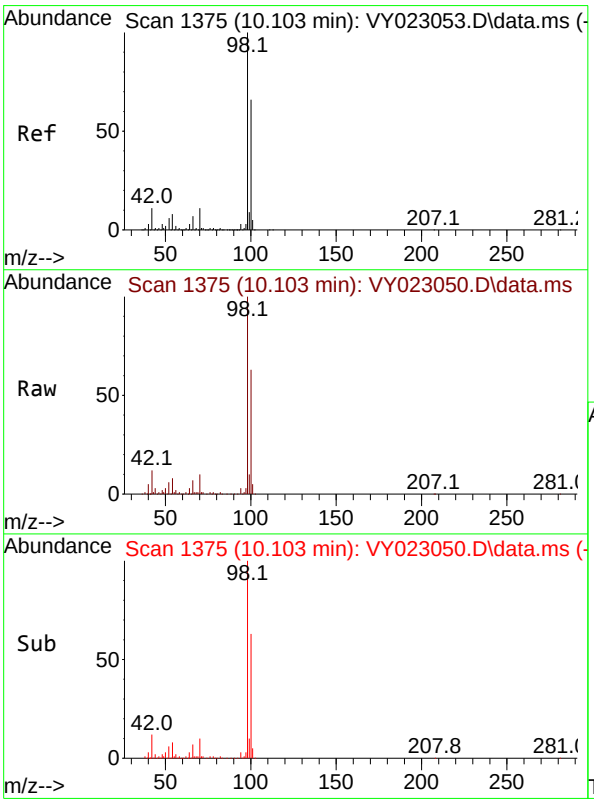
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

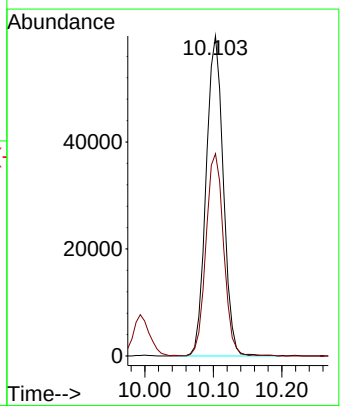


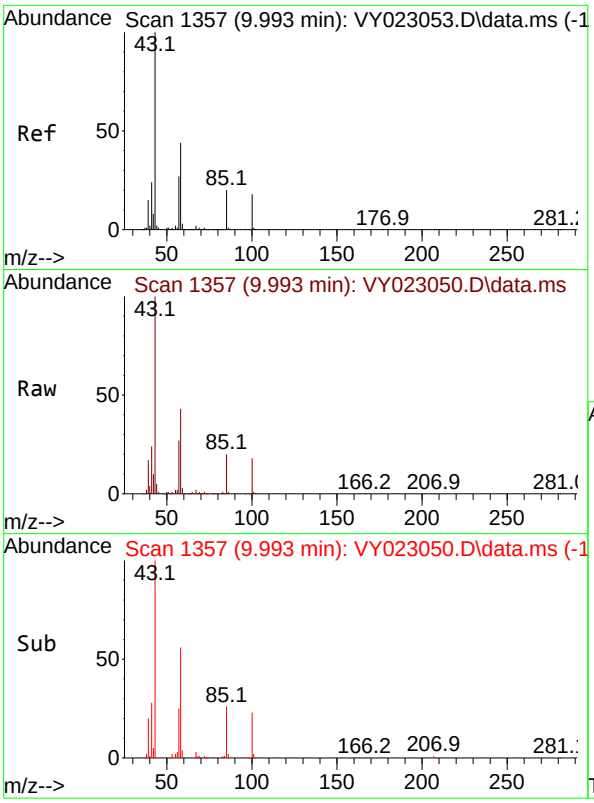


#50
Toluene-d8
Concen: 4.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 98 Resp: 104144

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 21.535 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 7589

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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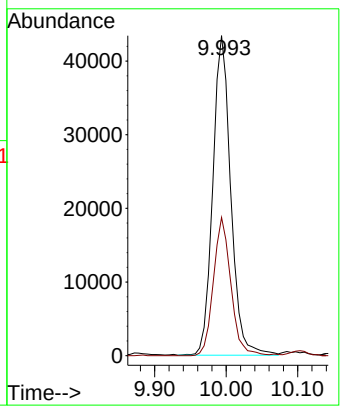
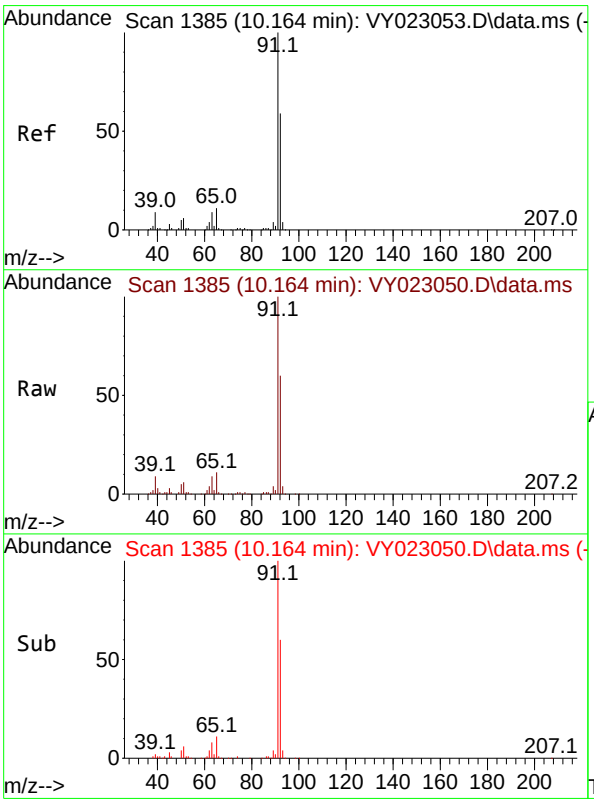
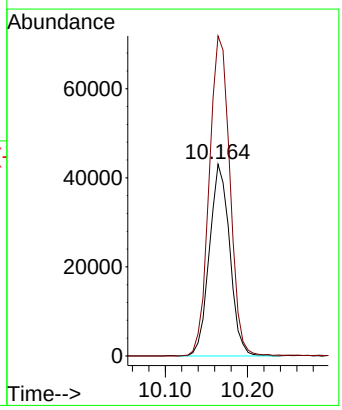


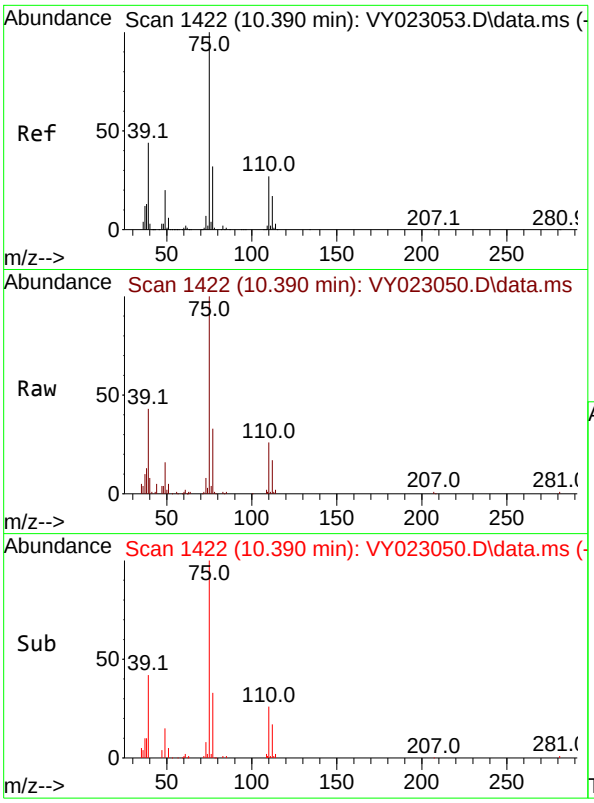


#52
Toluene
Concen: 4.692 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 92 Resp: 73910

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.4	204.6

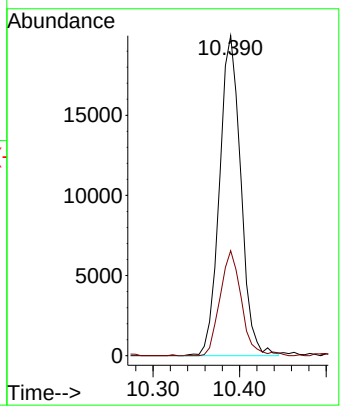




#53
t-1,3-Dichloropropene
Concen: 4.475 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 3415

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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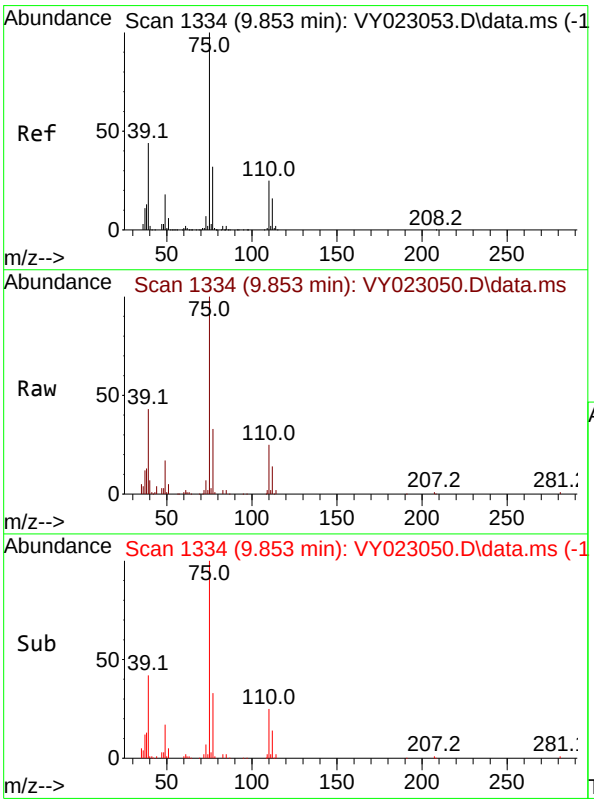
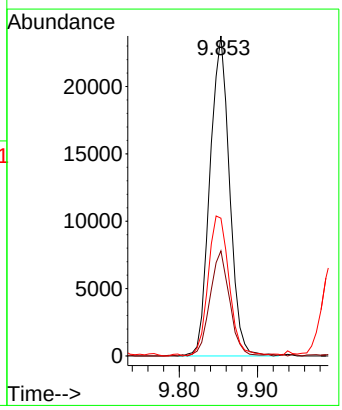
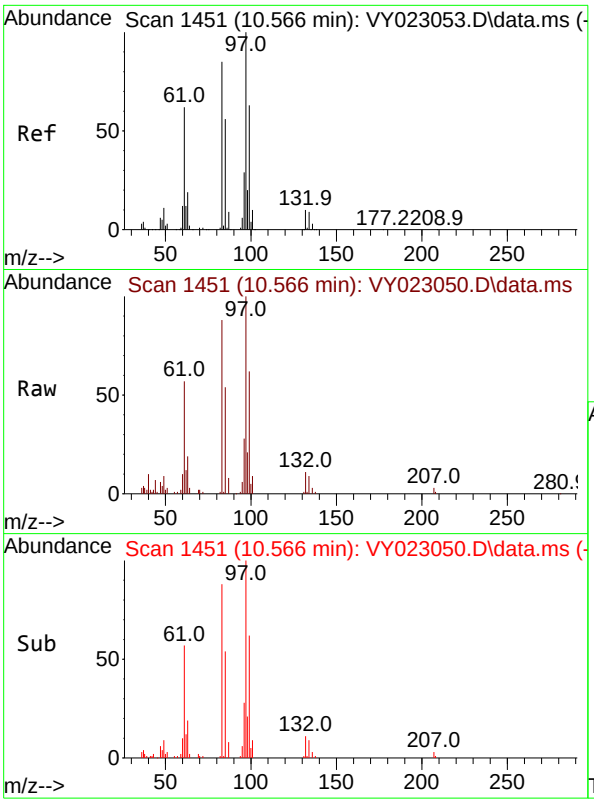


#54
cis-1,3-Dichloropropene
Concen: 4.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 41326

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.4	38.0
39	42.5	35.6	53.4

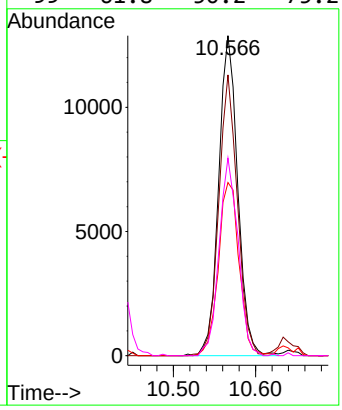




#55
1,1,2-Trichloroethane
Concen: 4.745 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 97 Resp: 2079

Ion	Ratio	Lower	Upper
97	100		
83	87.8	67.7	101.5
85	54.1	44.5	66.7
99	61.8	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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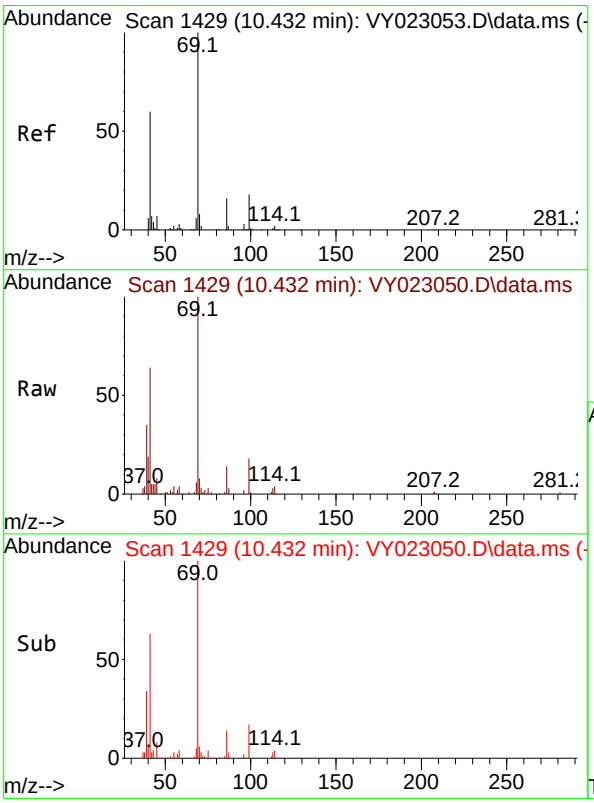
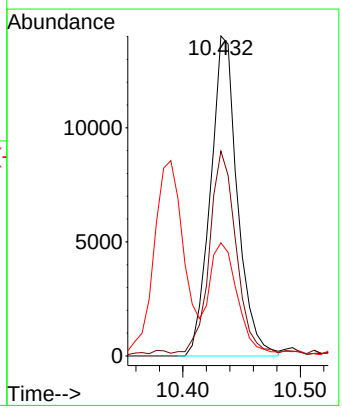
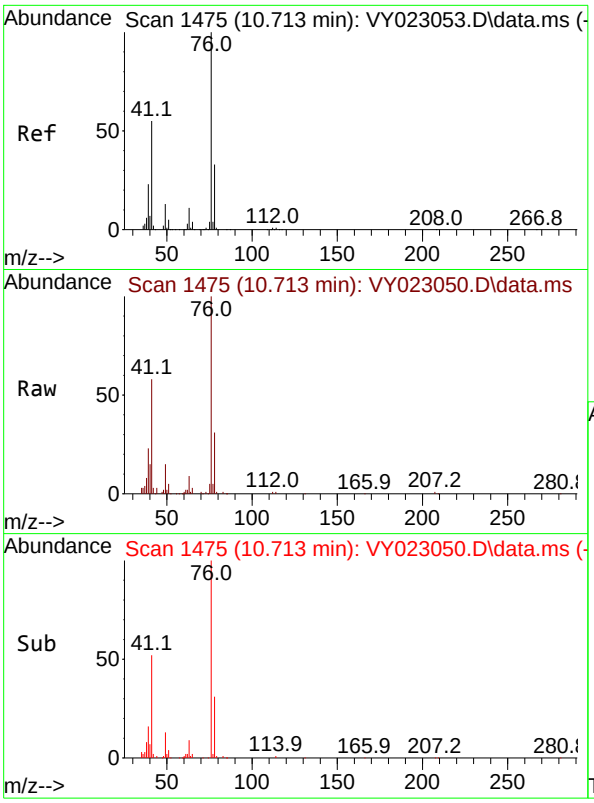


#56
Ethyl methacrylate
Concen: 3.990 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 69 Resp: 22376

Ion	Ratio	Lower	Upper
69	100		
41	61.6	48.6	72.8
39	34.3	27.0	40.4

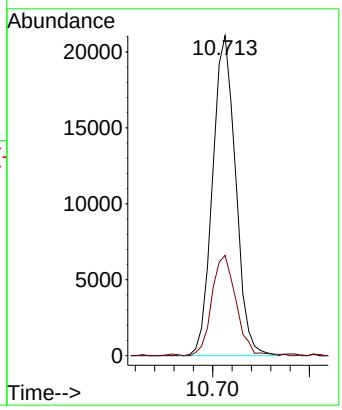




#57
1,3-Dichloropropane
Concen: 4.687 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 76 Resp: 3483

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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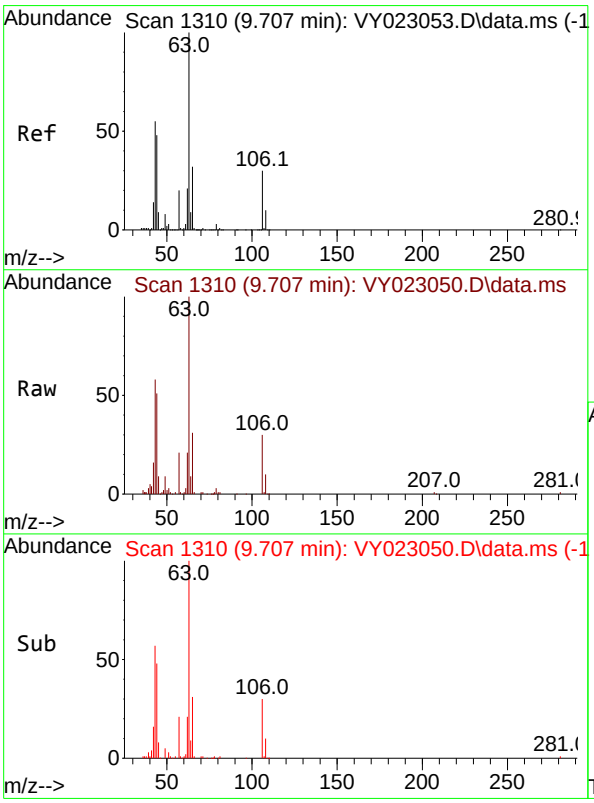
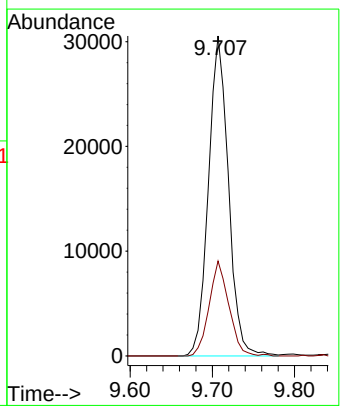
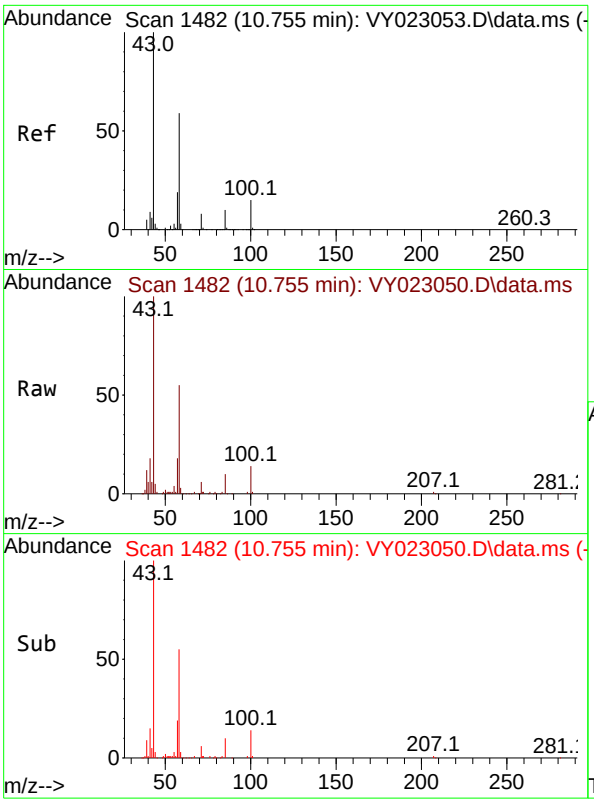


#58
2-Chloroethyl Vinyl ether
Concen: 19.500 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 51585

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.2	34.8





#59
2-Hexanone
Concen: 21.088 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 5060

Ion	Ratio	Lower	Upper
43	100		
58	56.9	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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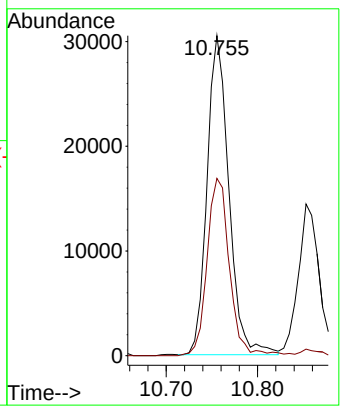
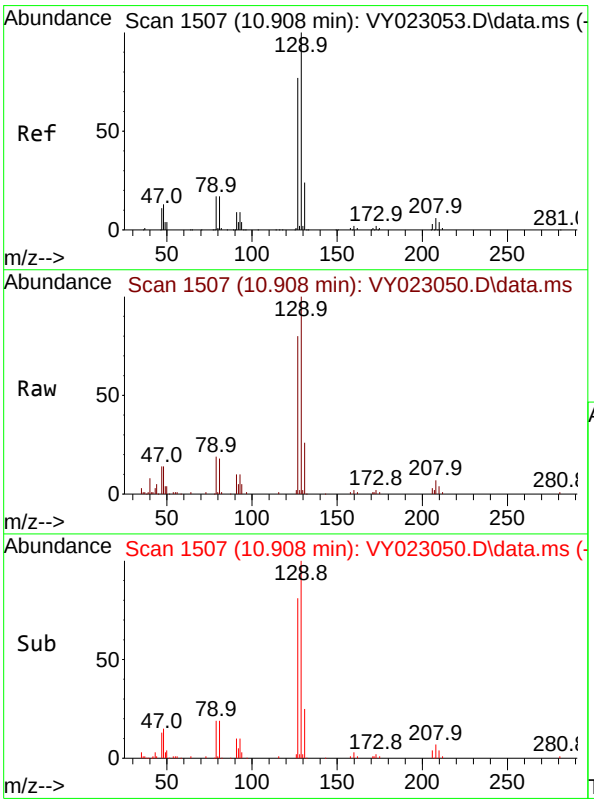
Supervised By :Semsettin Yesilyurt 08/14/2025

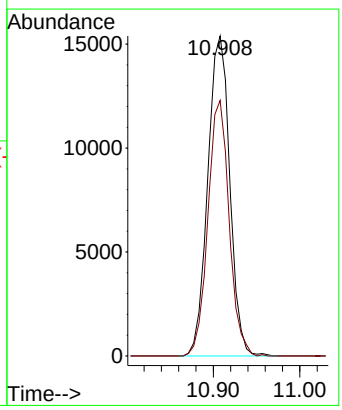


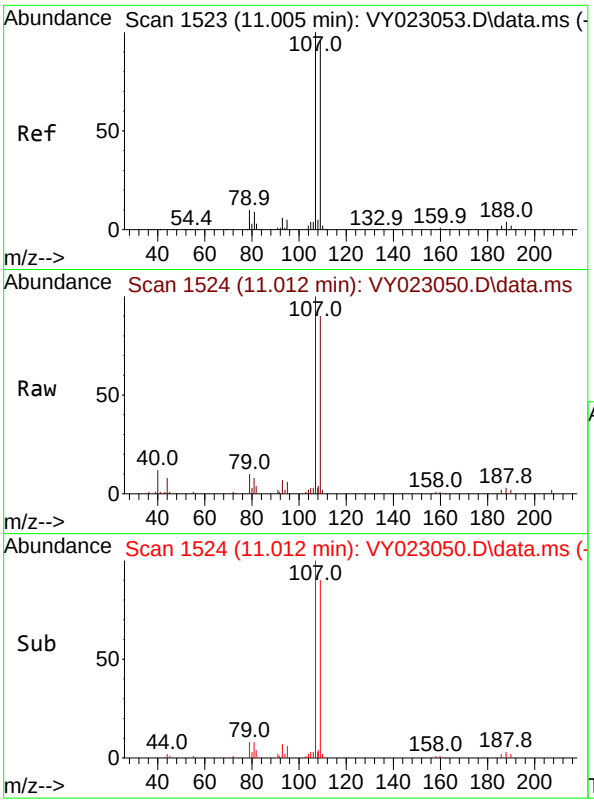


#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:129 Resp: 27141

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 4.528 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:107 Resp: 1865

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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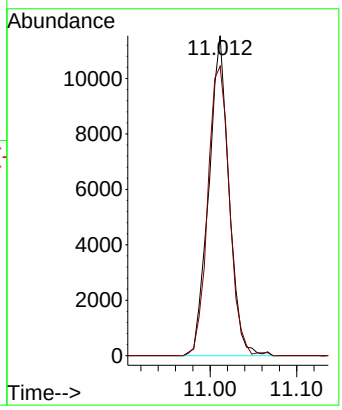
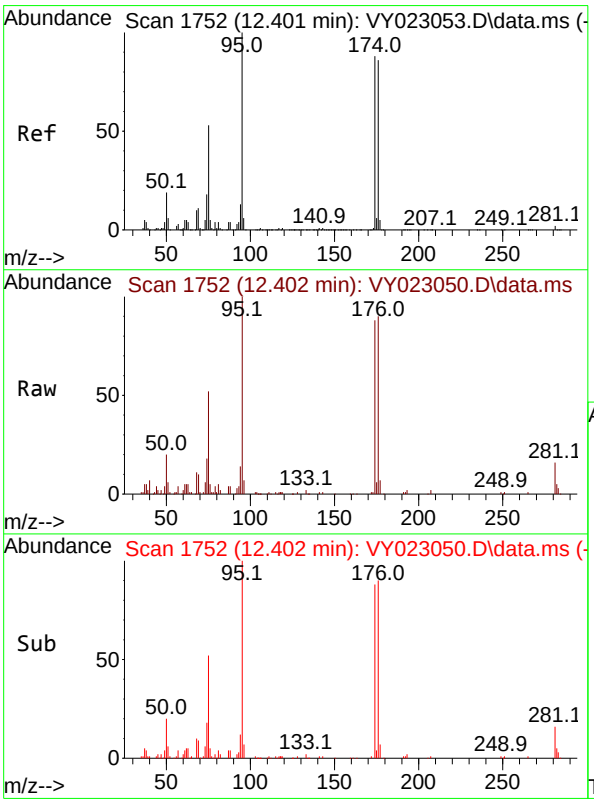
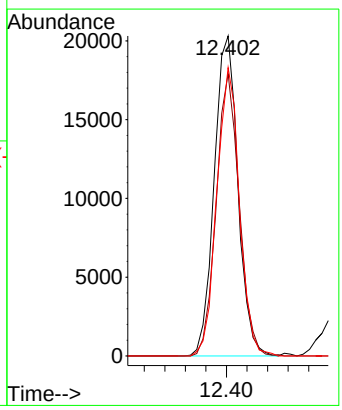


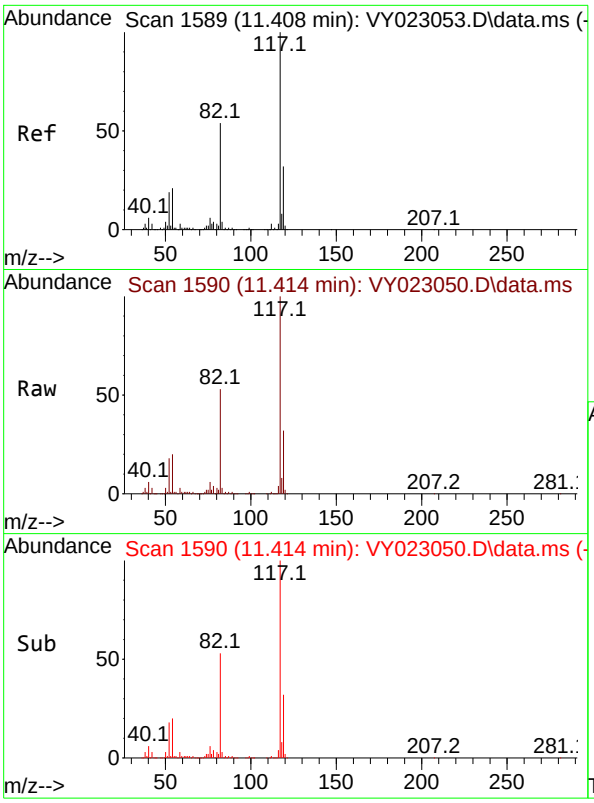


#62
4-Bromofluorobenzene
Concen: 4.766 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 95 Resp: 32420

Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	171.6
176	86.1	0.0	167.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 75991

Ion	Ratio	Lower	Upper
117	100		
82	52.6	43.4	65.0
119	32.1	25.6	38.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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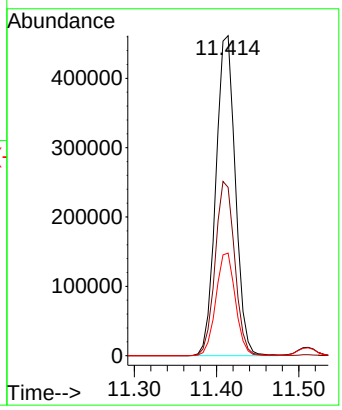
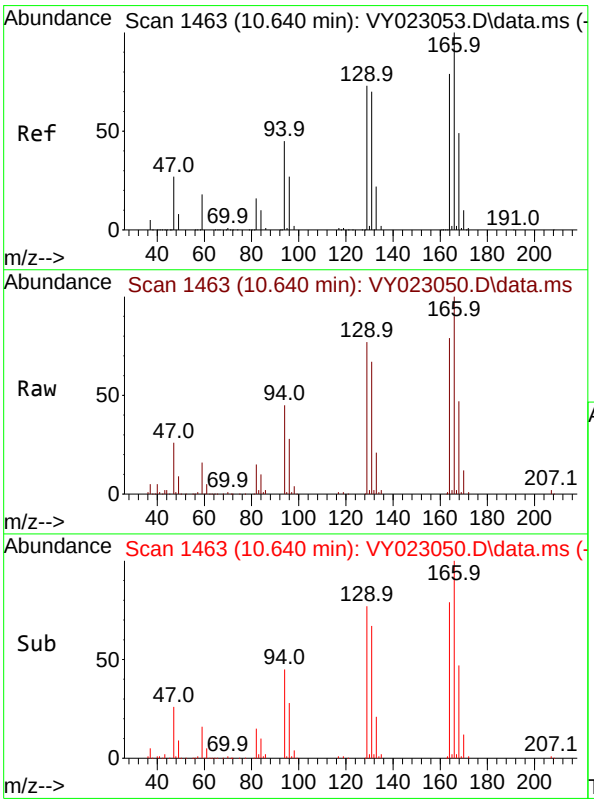
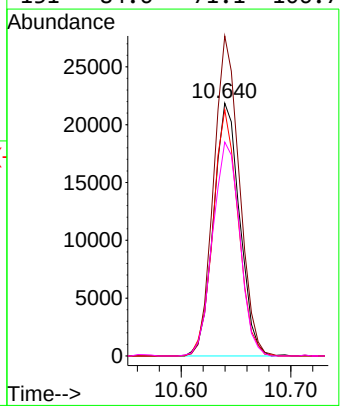


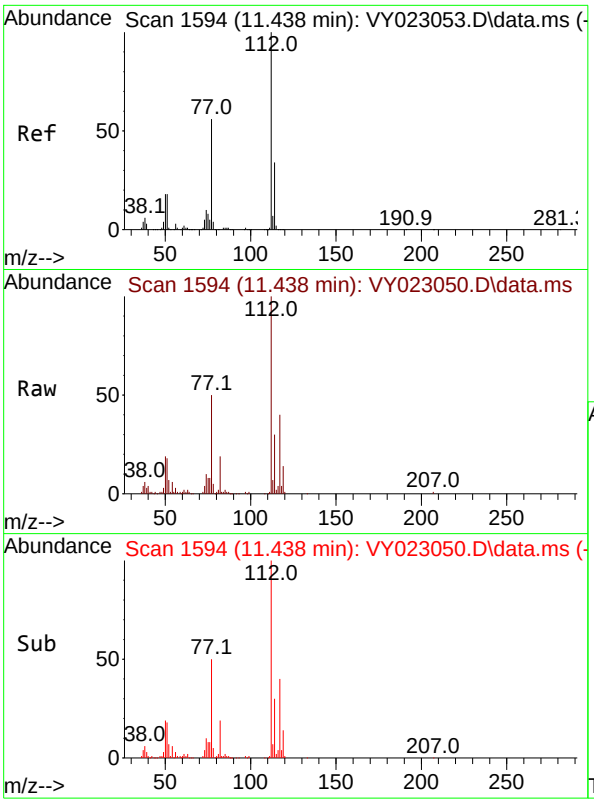


#64
Tetrachloroethene
Concen: 5.336 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:164 Resp: 36210

Ion	Ratio	Lower	Upper
164	100		
166	126.6	101.1	151.7
129	97.4	74.0	111.0
131	84.6	71.1	106.7





#65
Chlorobenzene
Concen: 4.922 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:112 Resp: 8068

Ion	Ratio	Lower	Upper
112	100		
114	29.6	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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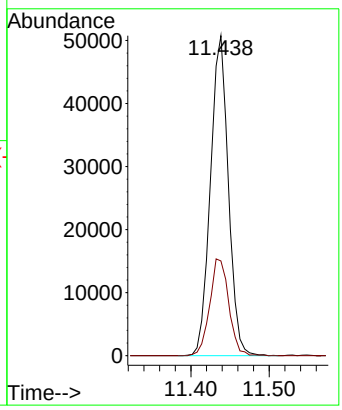
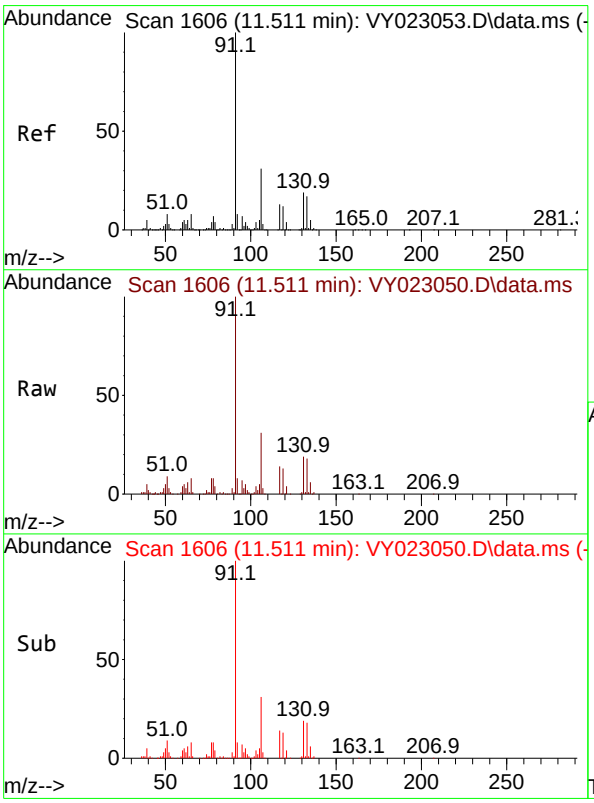
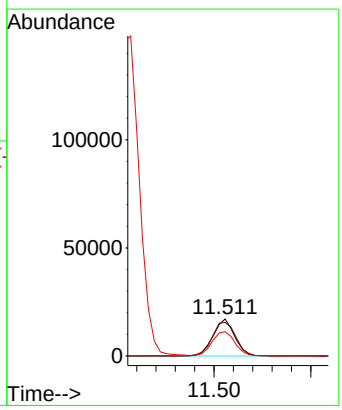


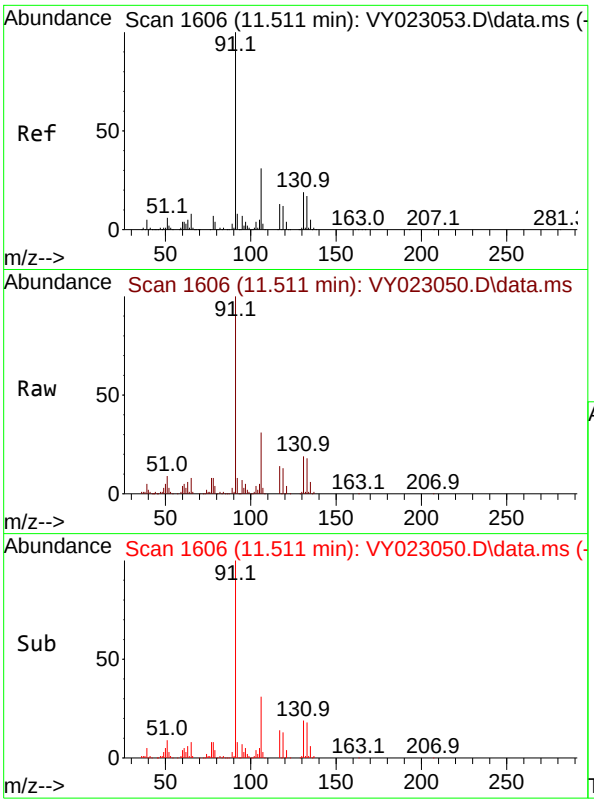


#66
1,1,1,2-Tetrachloroethane
Concen: 4.745 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:131 Resp: 26397

Ion	Ratio	Lower	Upper
131	100		
133	100.6	46.9	140.6
119	70.6	33.2	99.6





#67
Ethyl Benzene
Concen: 4.781 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 13485

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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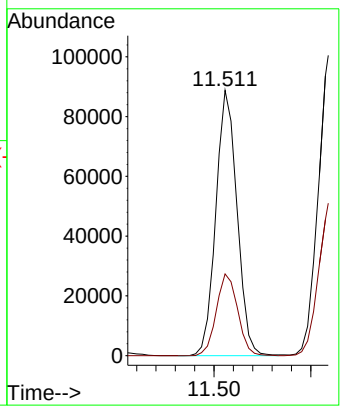
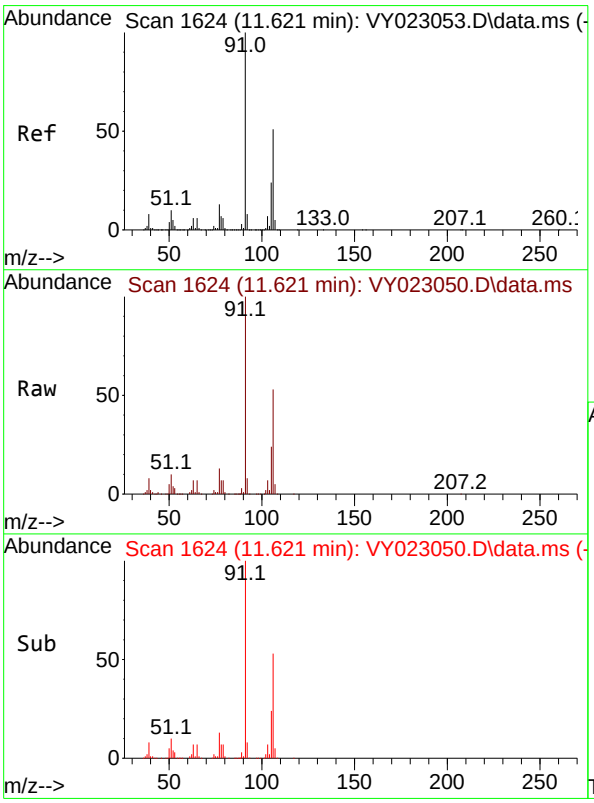
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

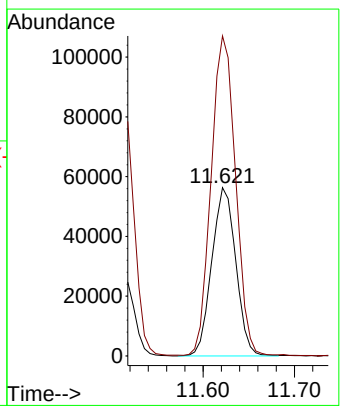


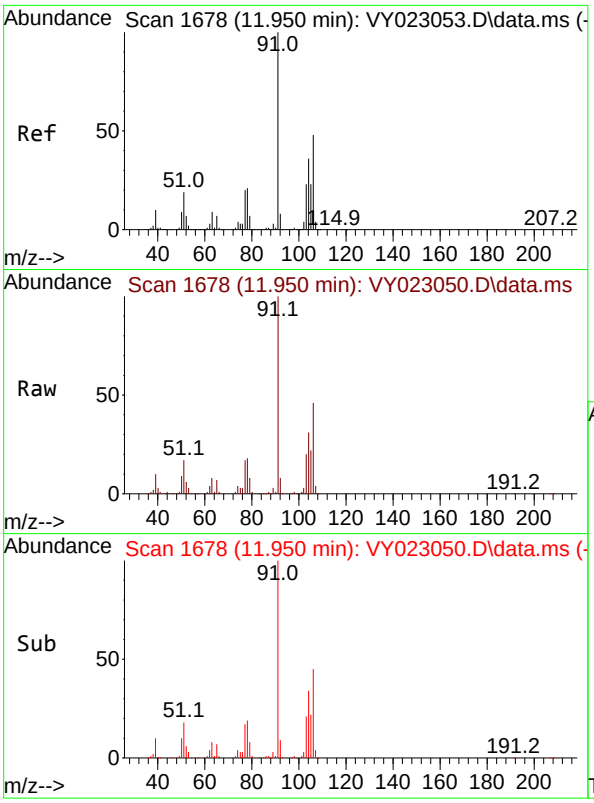


#68
m/p-Xylenes
Concen: 9.329 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 102783

Ion	Ratio	Lower	Upper
106	100		
91	194.0	158.6	238.0





#69
o-Xylene
Concen: 4.453 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 4594

Ion	Ratio	Lower	Upper
106	100		
91	216.3	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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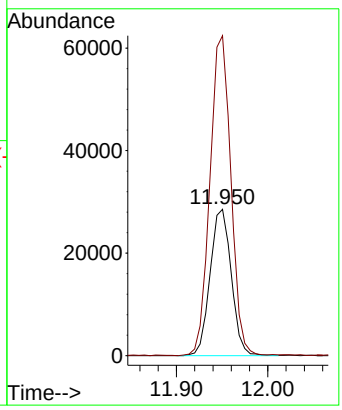
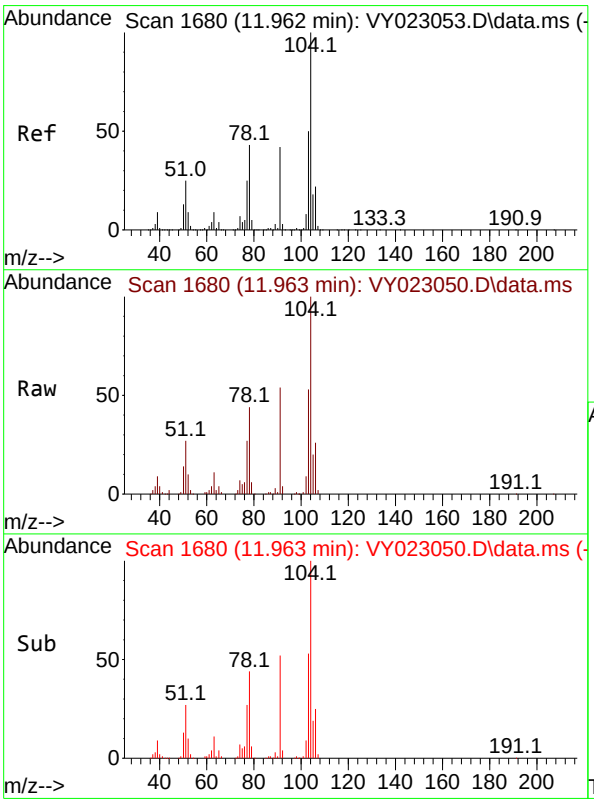
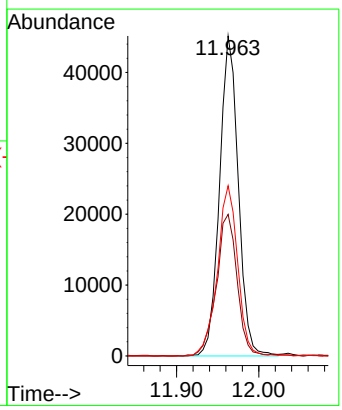


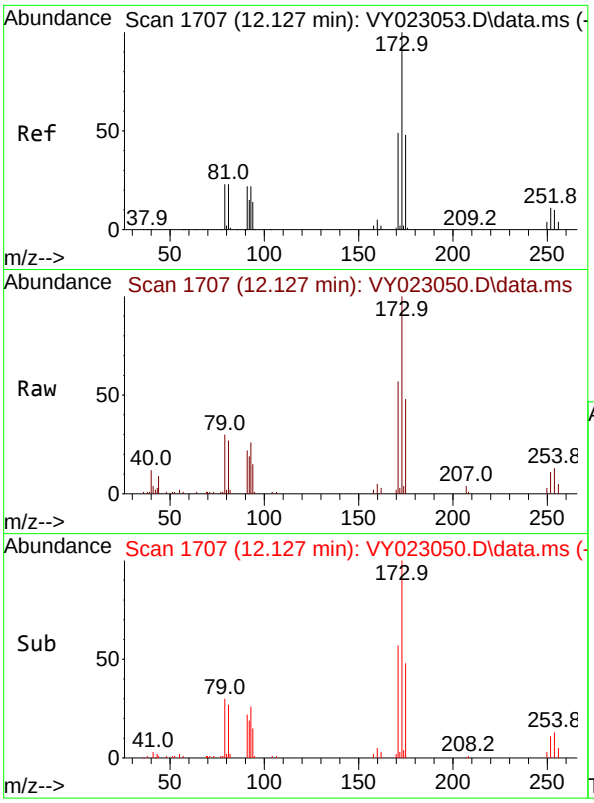


#70
Styrene
Concen: 4.255 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:104 Resp: 71801

Ion	Ratio	Lower	Upper
104	100		
78	48.8	38.5	57.7
103	57.6	43.7	65.5





#71
Bromoform
Concen: 4.599 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:173 Resp: 1495

Ion	Ratio	Lower	Upper
173	100		
175	51.7	23.9	71.7
254	0.0	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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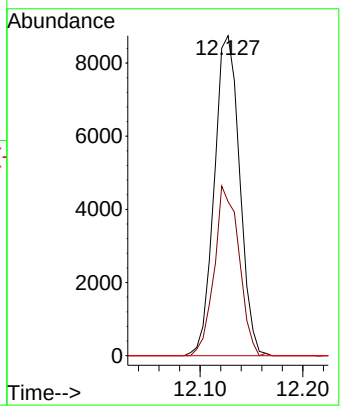
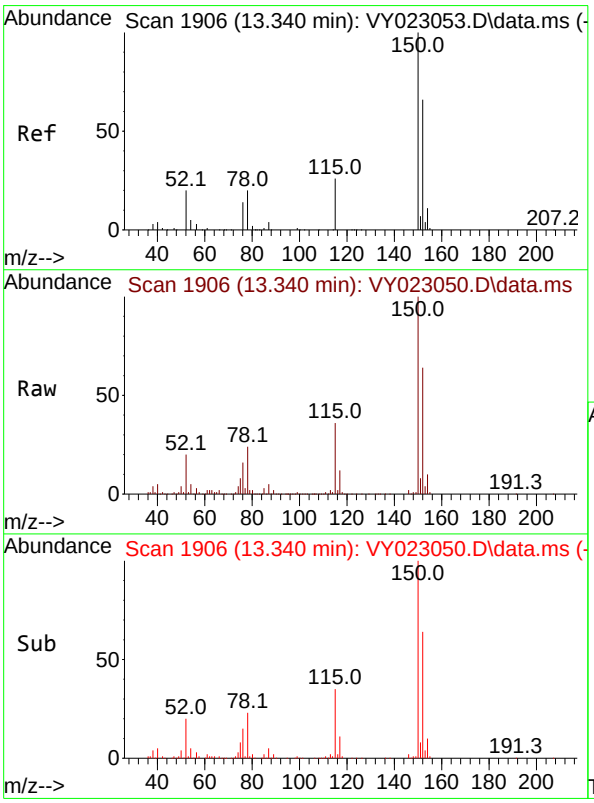
Supervised By :Semsettin Yesilyurt 08/14/2025

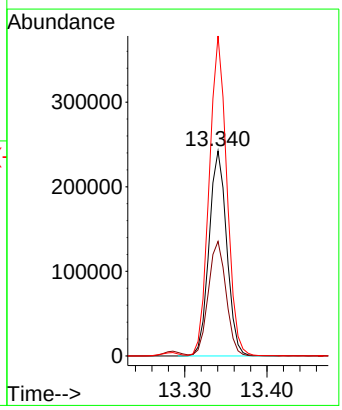


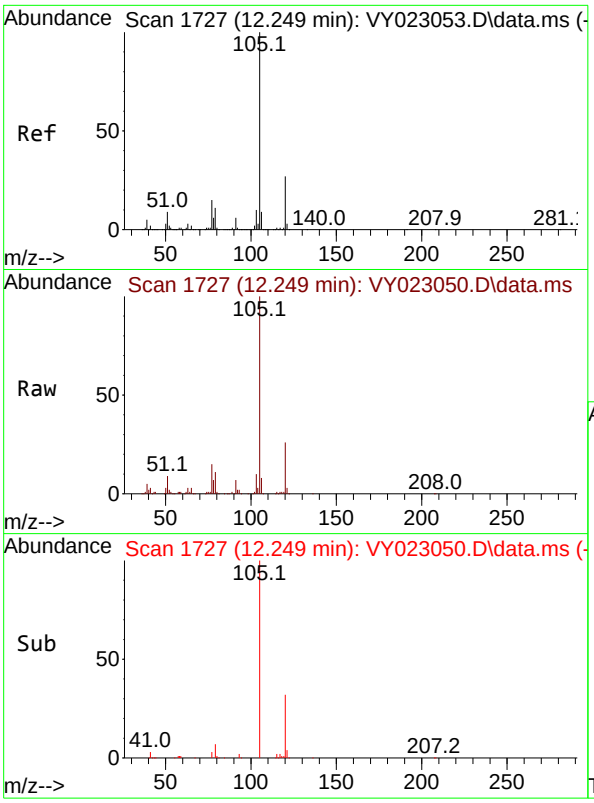


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:152 Resp: 360397

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	155.7	0.0	348.0

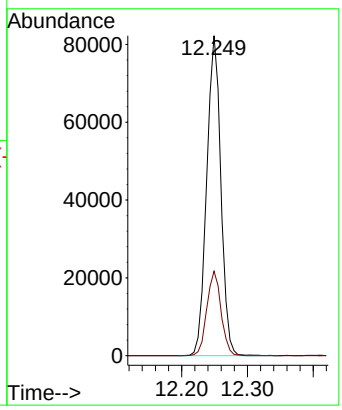




#73
Isopropylbenzene
Concen: 4.845 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 12324

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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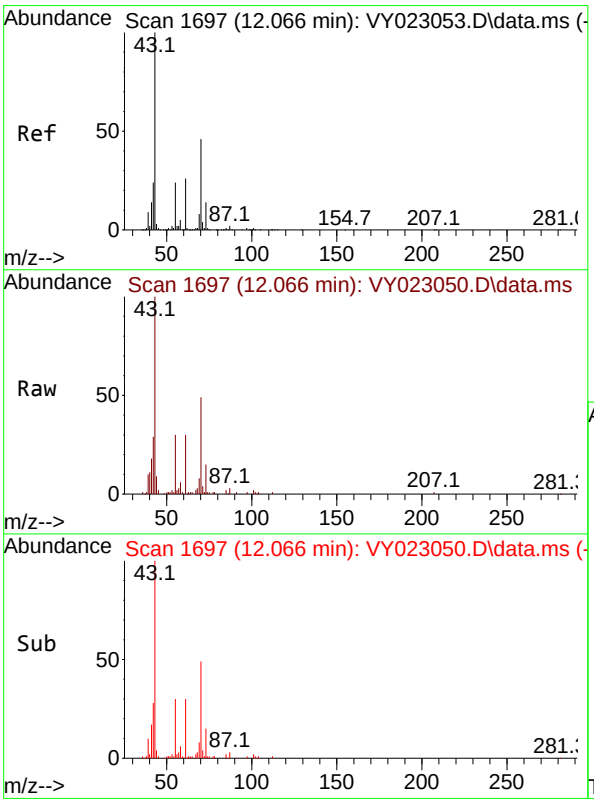
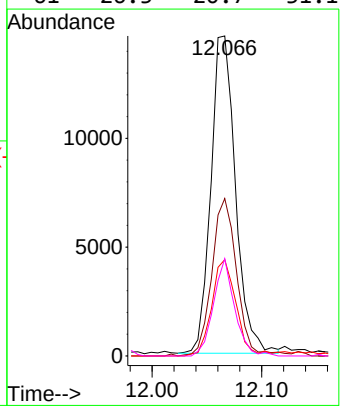
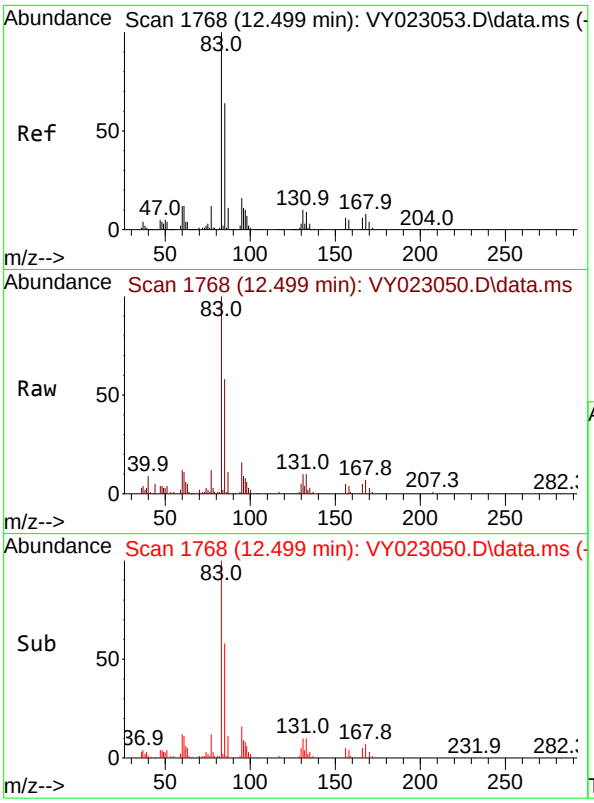


#74
N-amyl acetate
Concen: 4.232 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 22829

Ion	Ratio	Lower	Upper
43	100		
70	50.0	37.5	56.3
55	29.9	20.7	31.1
61	26.3	20.7	31.1

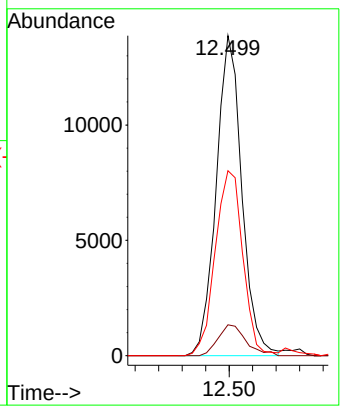




#75
1,1,2,2-Tetrachloroethane
Concen: 4.848 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 2105

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	62.2	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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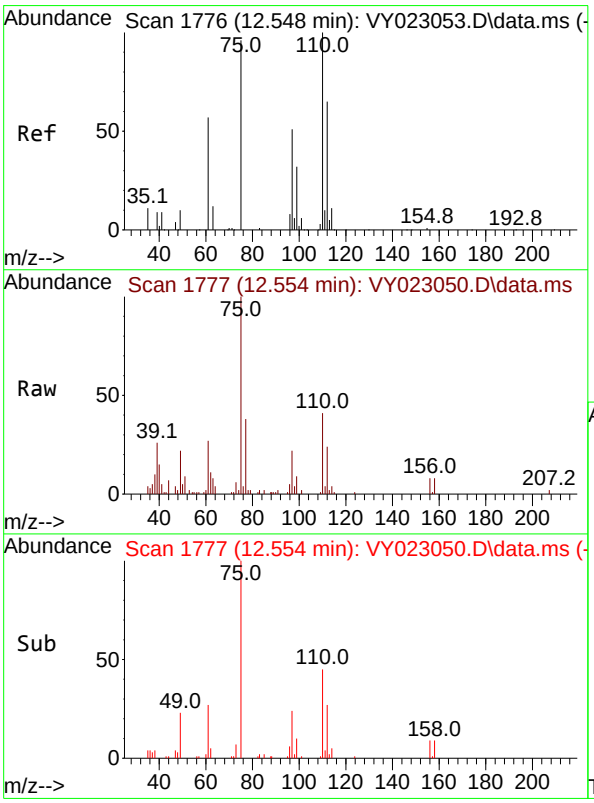
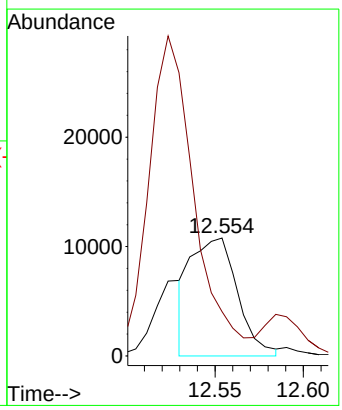
Supervised By :Semsettin Yesilyurt 08/14/2025

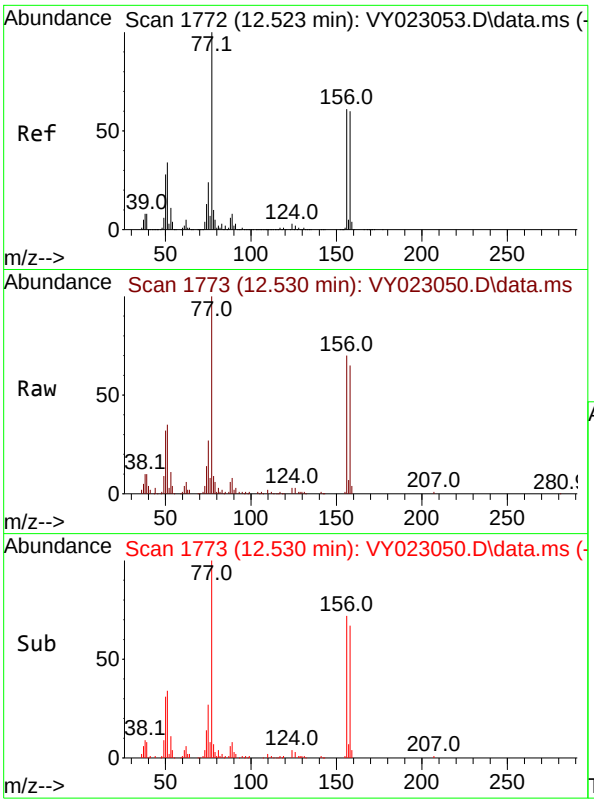


#76
1,2,3-Trichloropropane
Concen: 5.710 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 19875

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

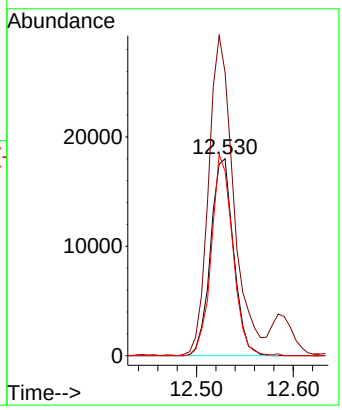




#77
Bromobenzene
Concen: 4.891 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:156 Resp: 2968

Ion	Ratio	Lower	Upper
156	100		
77	176.7	88.1	264.4
158	95.4	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/14/2025
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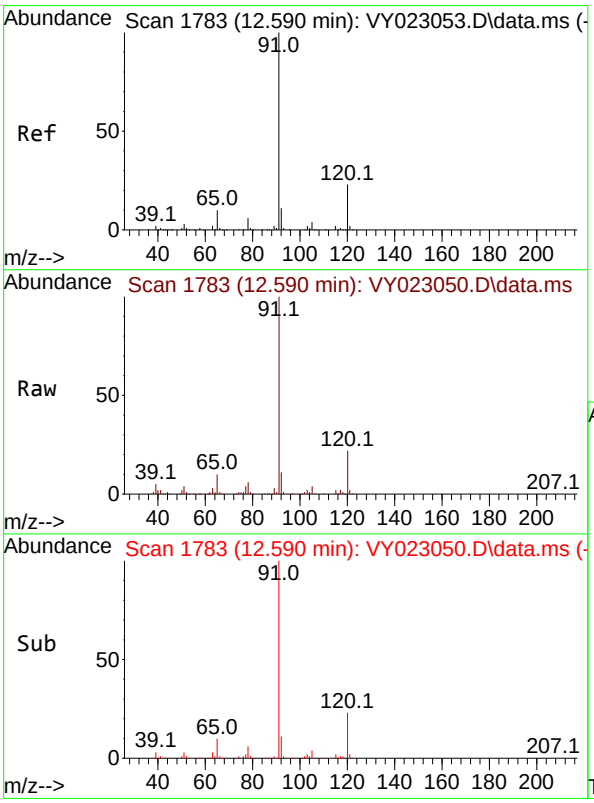
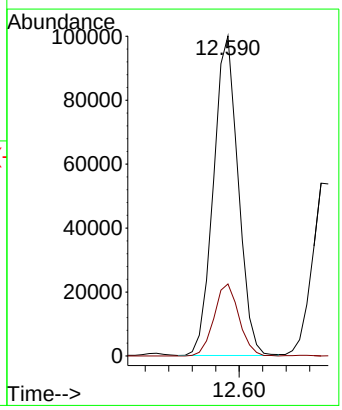
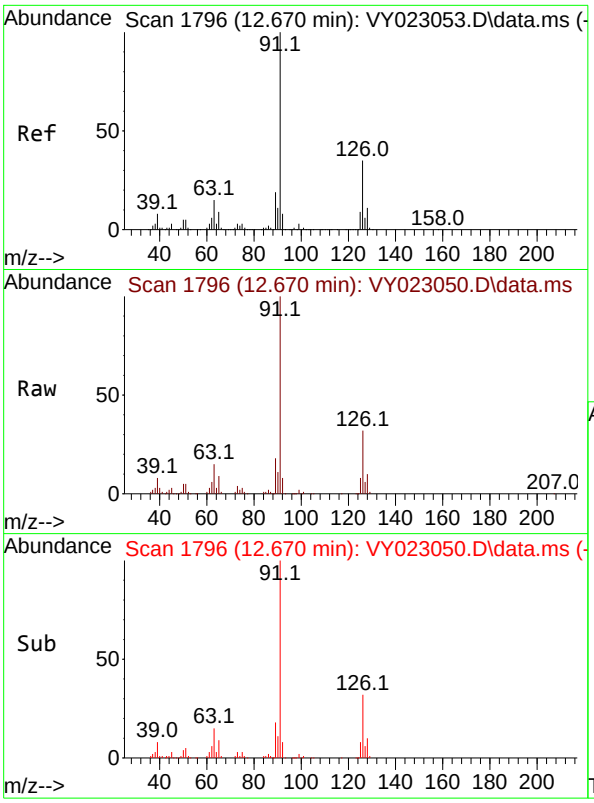


#78
n-propylbenzene
Concen: 4.822 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 146043

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.5	34.5

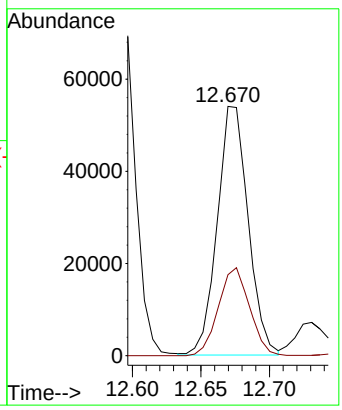




#79
2-Chlorotoluene
Concen: 4.880 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 8467

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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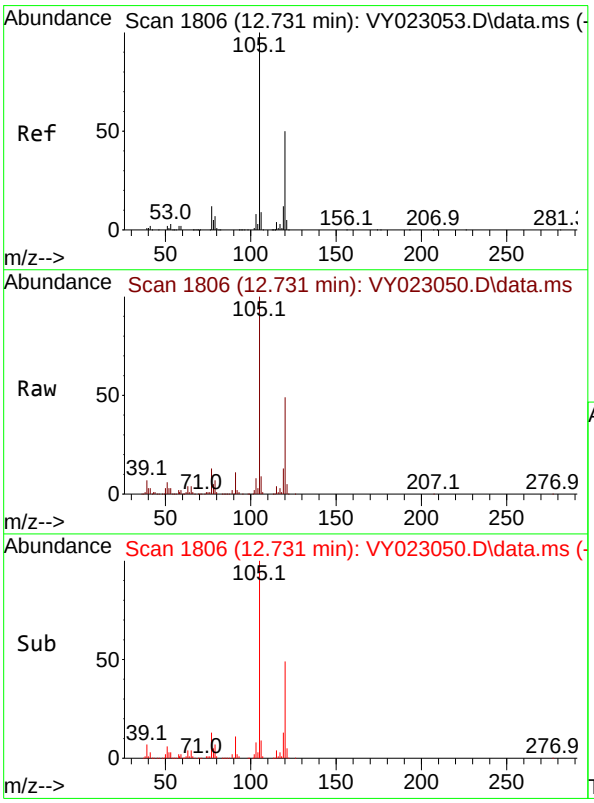
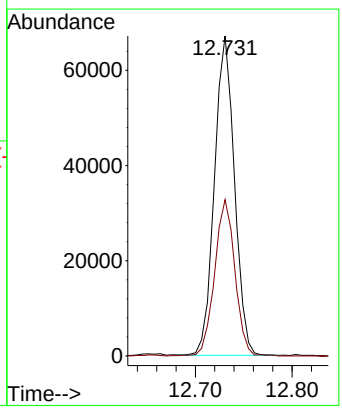
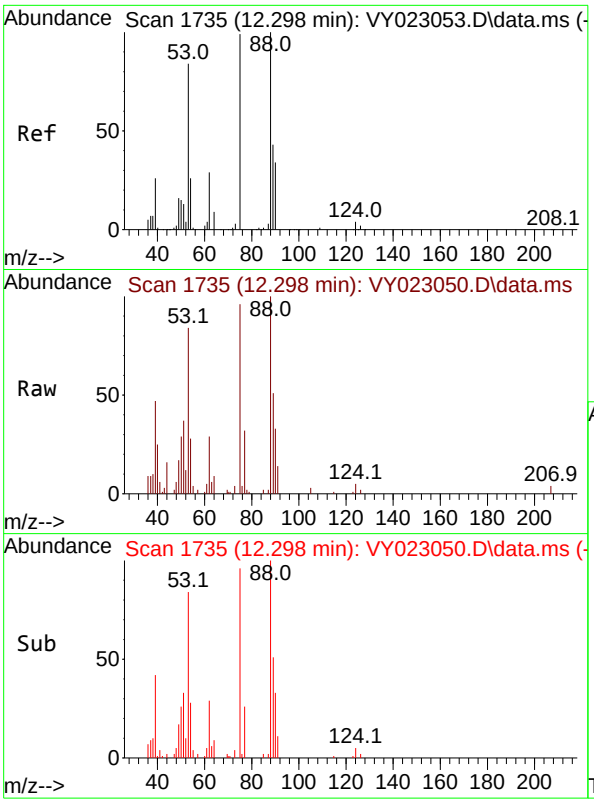


#80
1,3,5-Trimethylbenzene
Concen: 4.685 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 96308

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 4.533 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 651

Ion	Ratio	Lower	Upper
75	100		
53	101.3	70.8	106.2
89	51.7	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/14/2025
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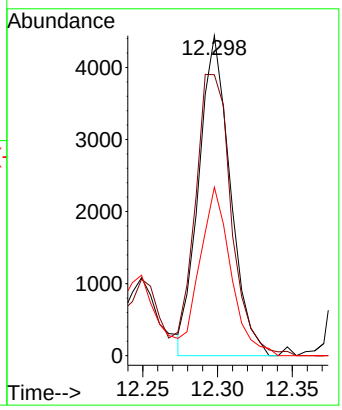
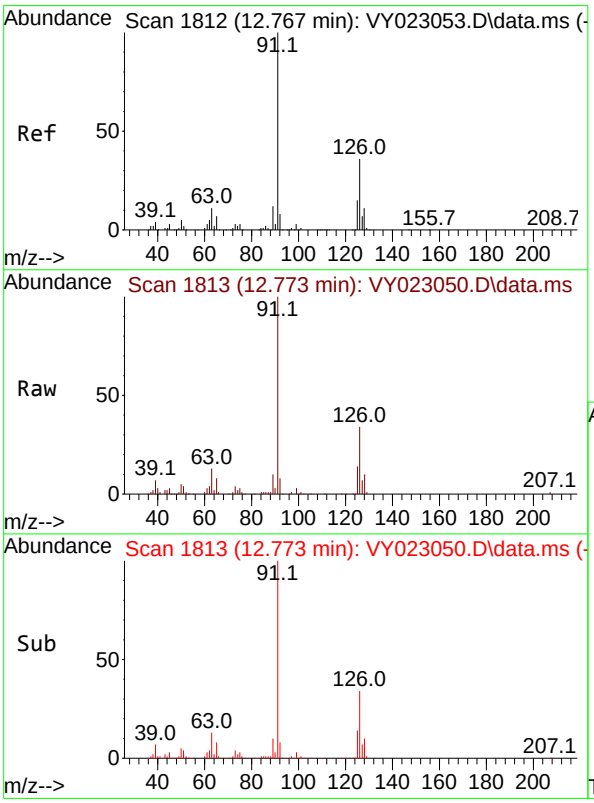
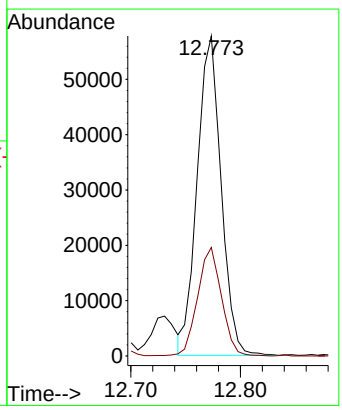


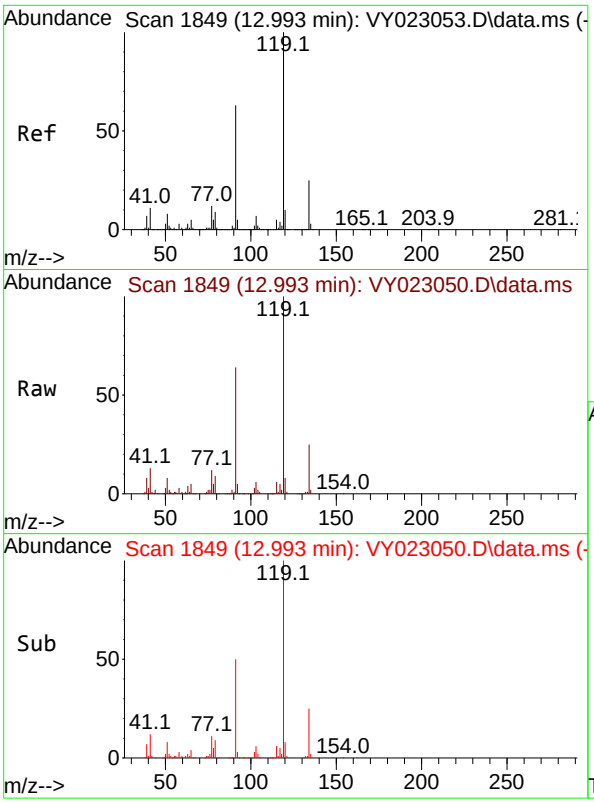


#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 87454

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.3	52.0

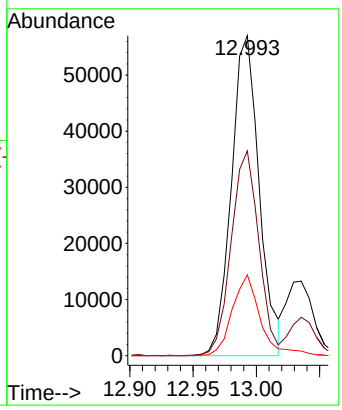




#83
tert-Butylbenzene
Concen: 4.712 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:119 Resp: 8749

Ion	Ratio	Lower	Upper
119	100		
91	63.6	31.6	94.8
134	25.5	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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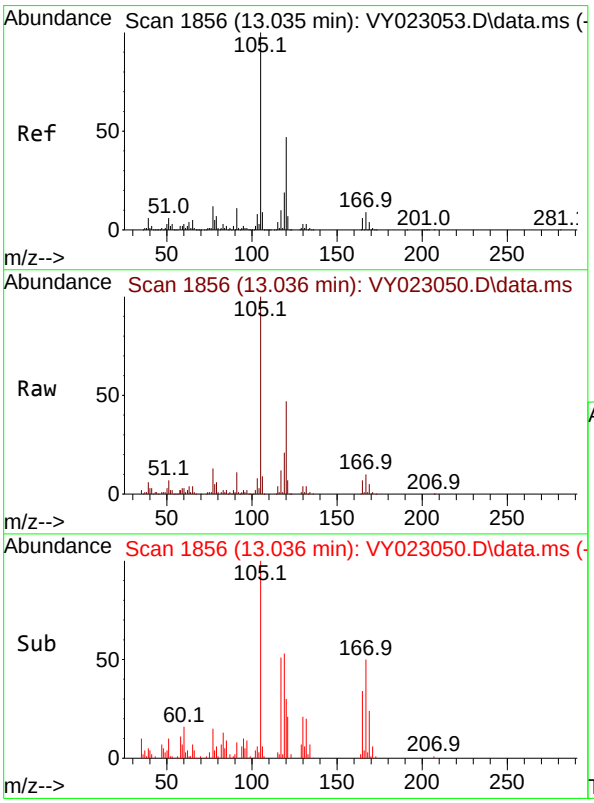
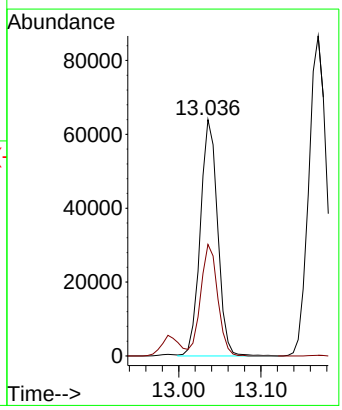
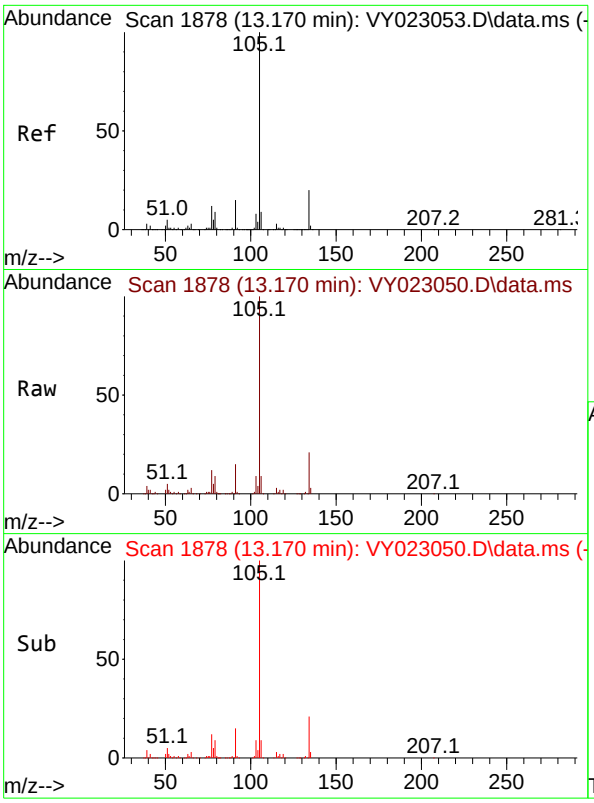


#84
1,2,4-Trimethylbenzene
Concen: 4.571 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 93551

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0





#85
sec-Butylbenzene
Concen: 4.806 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

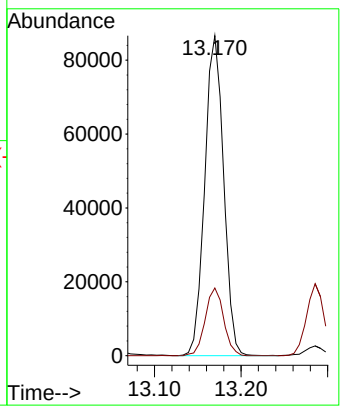
Tgt Ion:105 Resp: 13107

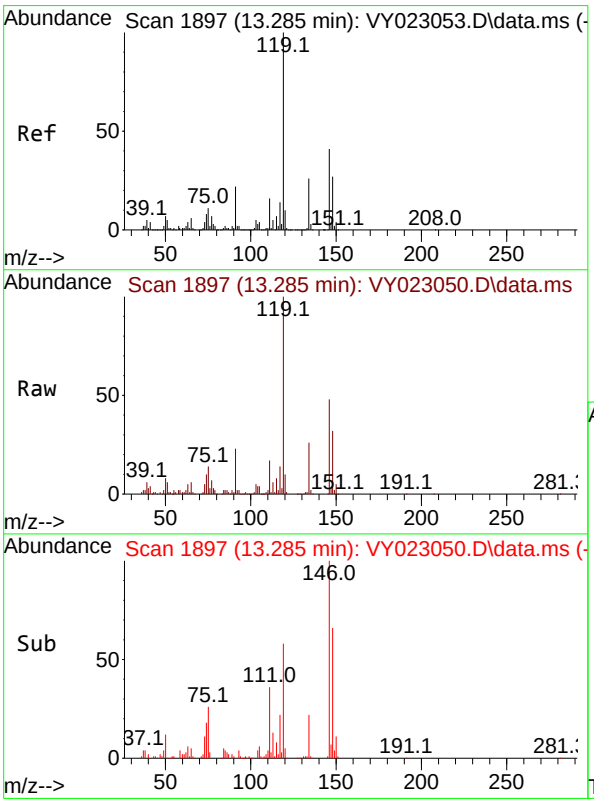
Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

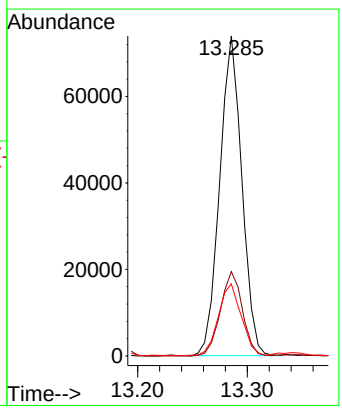


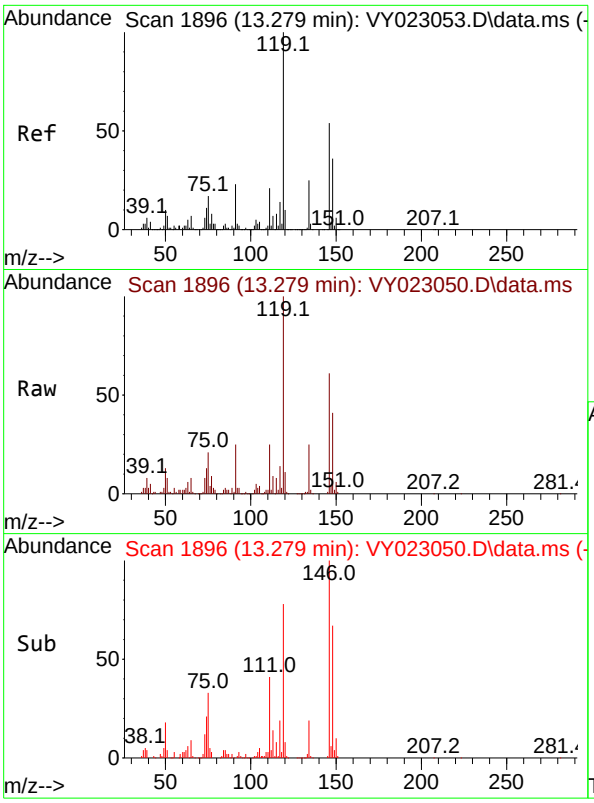


#86
p-Isopropyltoluene
Concen: 4.582 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:119 Resp: 103731

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	23.5	11.3	33.8

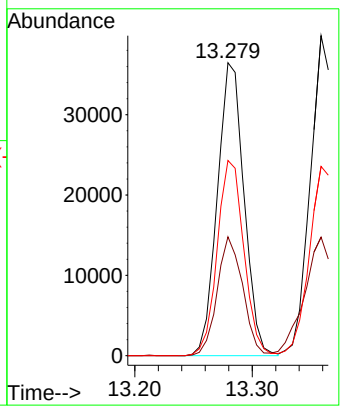




#87
1,3-Dichlorobenzene
Concen: 4.819 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 5766

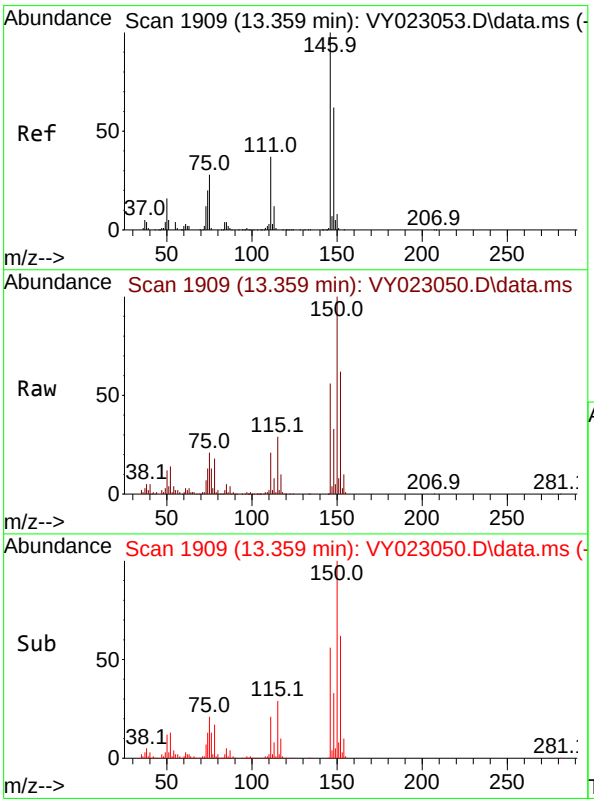
Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	66.5	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

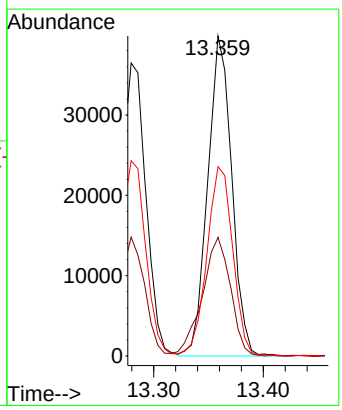
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

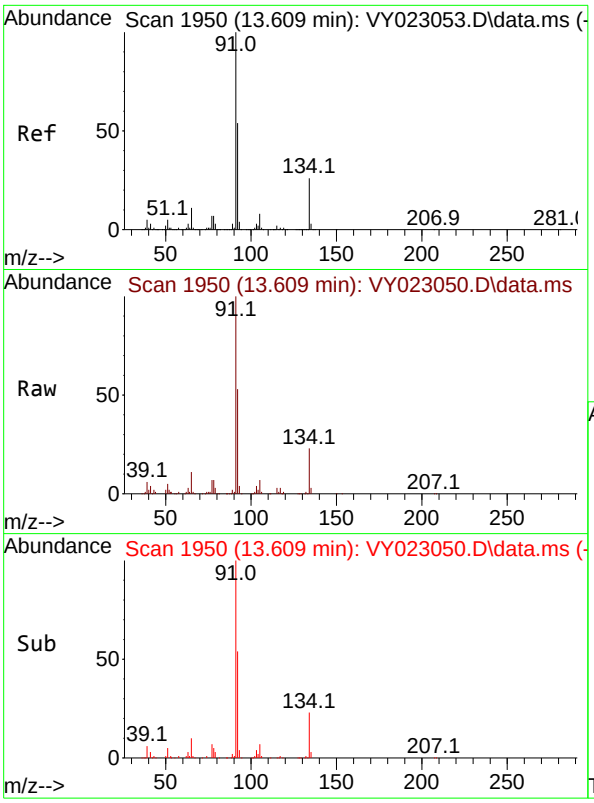


#88
1,4-Dichlorobenzene
Concen: 5.120 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 60781

Ion	Ratio	Lower	Upper
146	100		
111	42.8	19.1	57.1
148	63.6	31.6	94.7

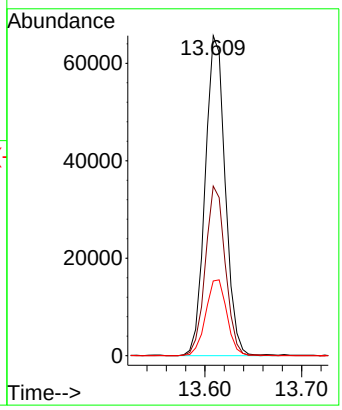




#89
n-Butylbenzene
Concen: 4.549 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 9459

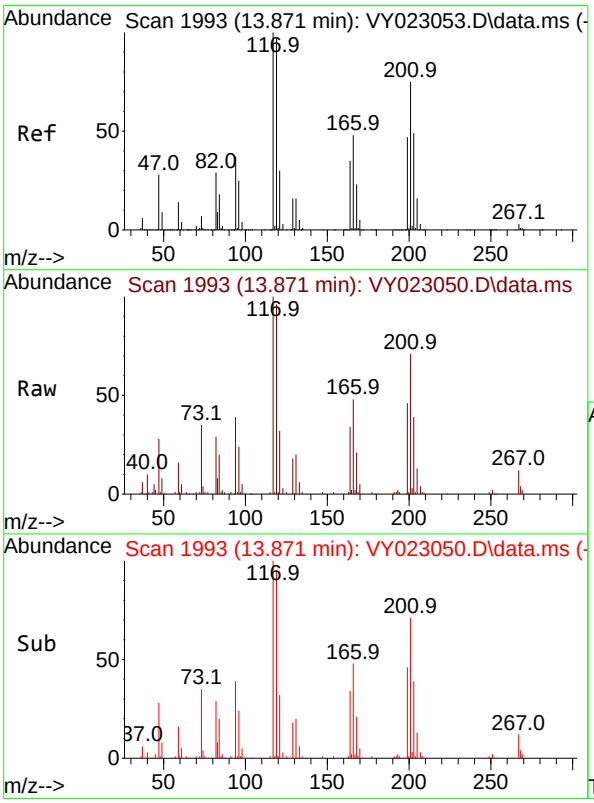
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.9	80.7
134	25.1	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

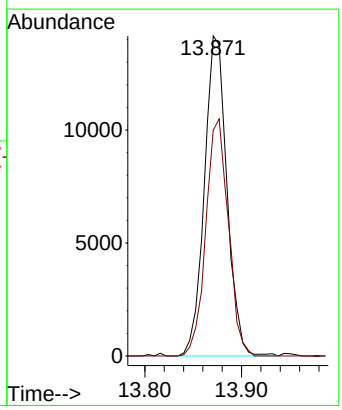
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

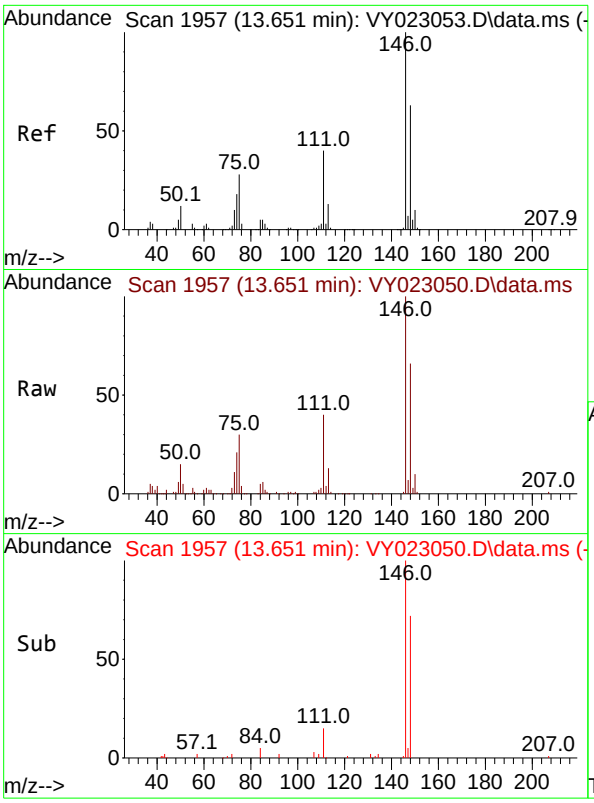


#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 22980

Ion	Ratio	Lower	Upper
117	100		
201	74.0	38.4	115.1

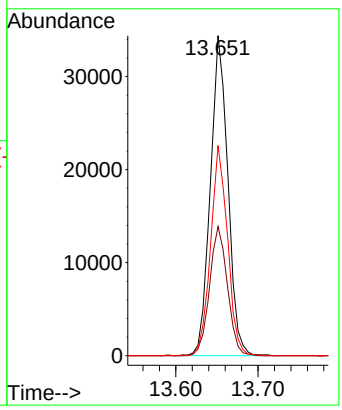




#91
1,2-Dichlorobenzene
Concen: 4.843 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 5082

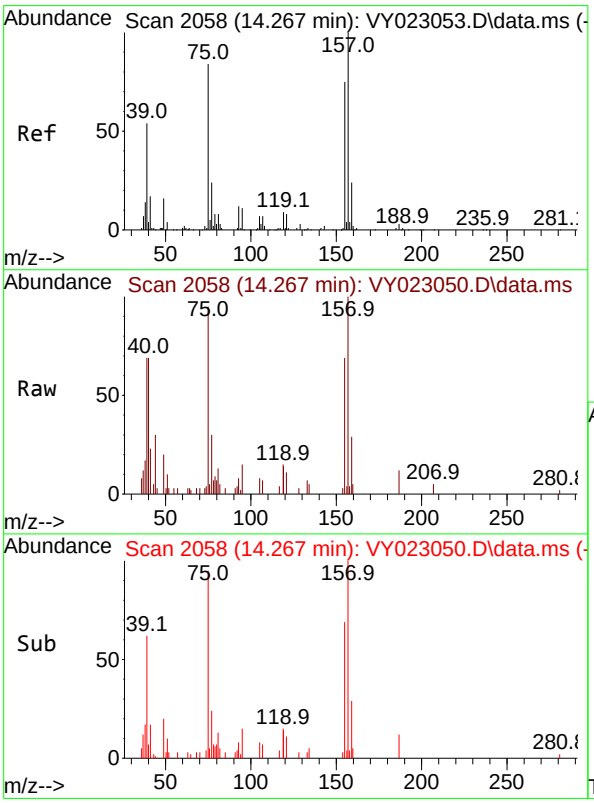
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	60.8
148	63.6	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

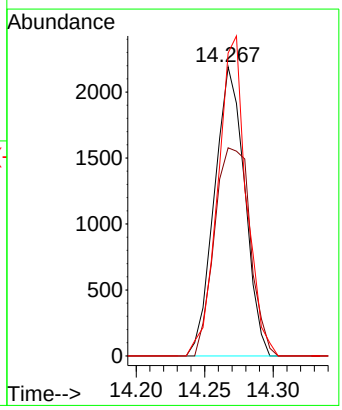
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

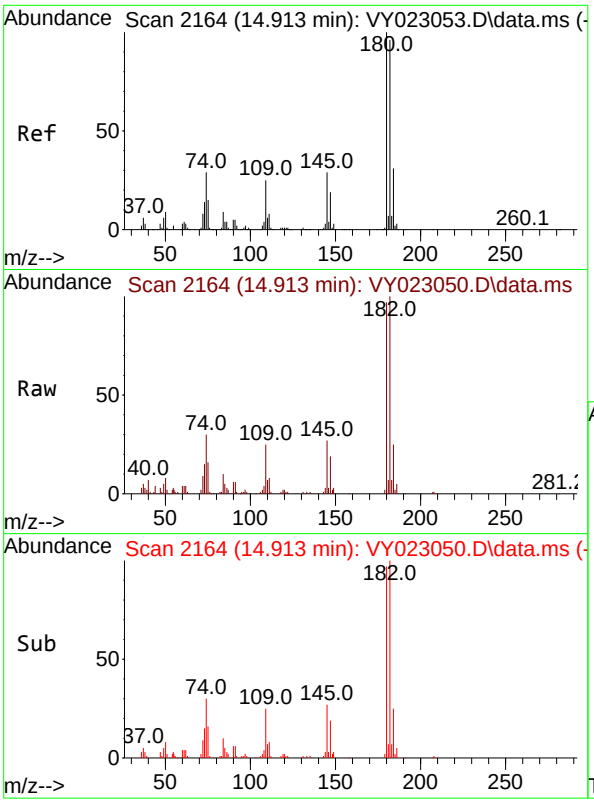


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 3369

Ion	Ratio	Lower	Upper
75	100		
155	85.3	43.9	131.6
157	103.8	57.2	171.6

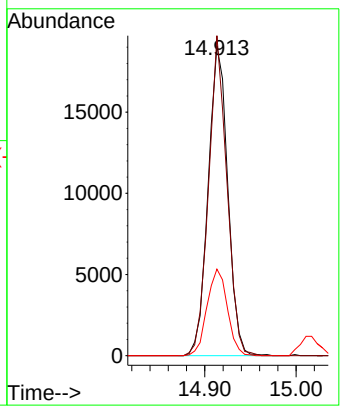




#93
1,2,4-Trichlorobenzene
Concen: 4.576 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 2839

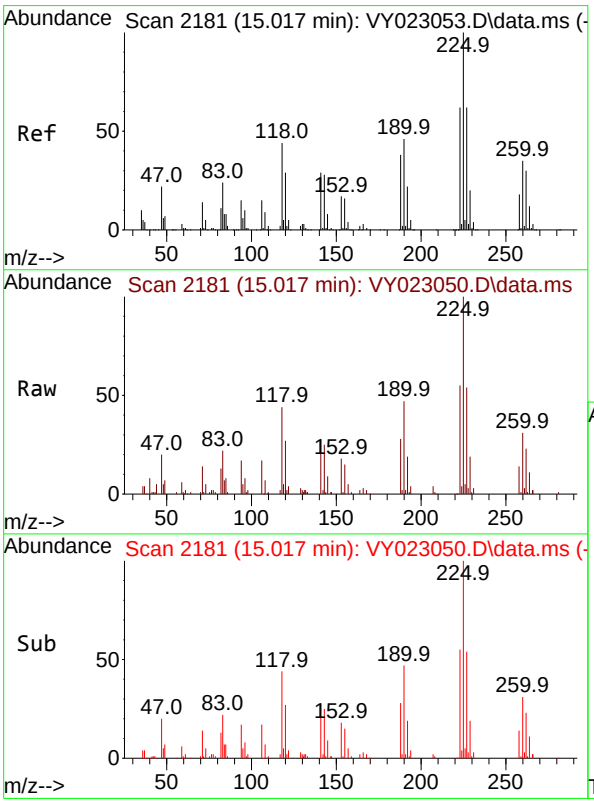
Ion	Ratio	Lower	Upper
180	100		
182	96.6	46.8	140.4
145	28.9	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

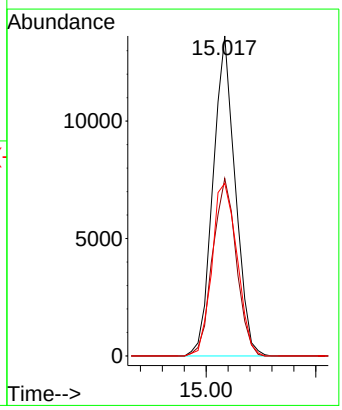
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

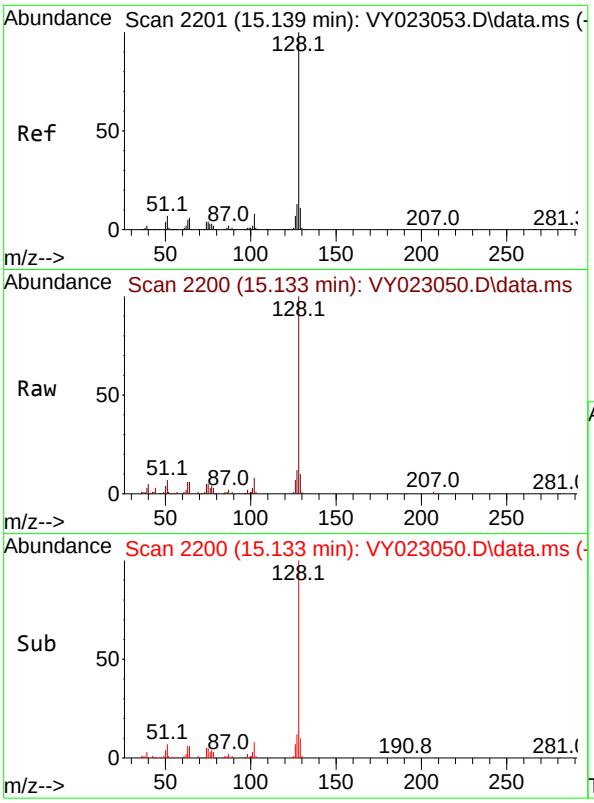


#94
Hexachlorobutadiene
Concen: 5.263 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:225 Resp: 19196

Ion	Ratio	Lower	Upper
225	100		
223	58.9	31.3	93.8
227	61.0	31.5	94.5

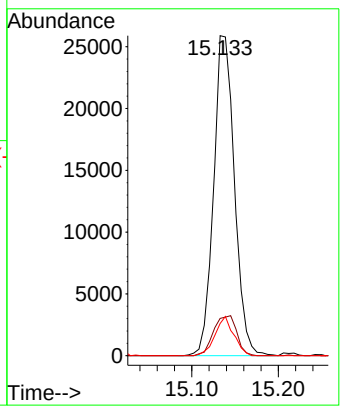




#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:128 Resp: 4339

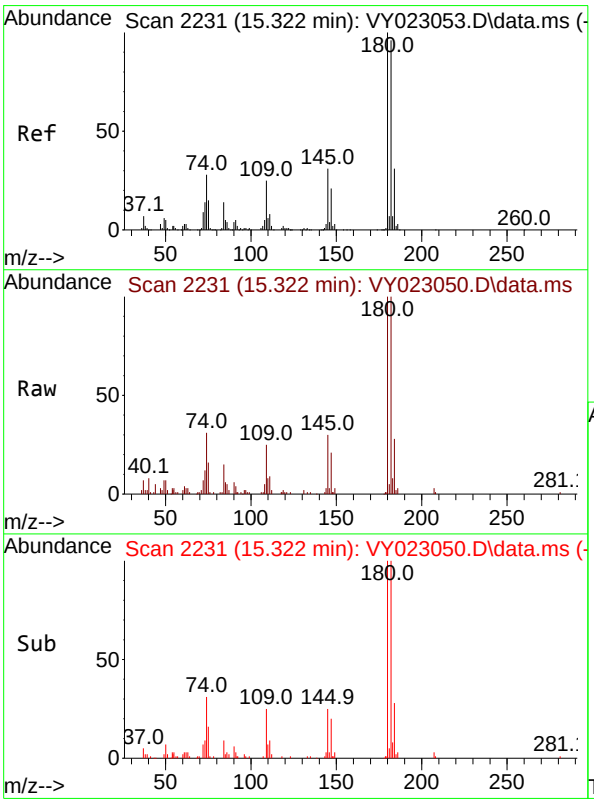
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

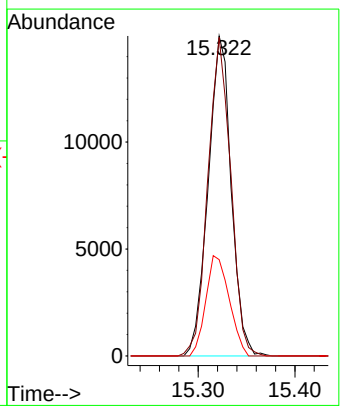
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.619 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 24703

Ion	Ratio	Lower	Upper
180	100		
182	98.4	47.9	143.7
145	31.9	15.9	47.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	551522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	883548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	761327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	365647	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	54002	10.274	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.540%#		
35) Dibromofluoromethane	7.628	113	52916	10.009	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.020%#		
50) Toluene-d8	10.103	98	204532	9.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.800%#		
62) 4-Bromofluorobenzene	12.401	95	64927	9.775	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.540%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	51022	11.334	ug/l	95
3) Chloromethane	2.068	50	77982	10.695	ug/l	97
4) Vinyl Chloride	2.202	62	95983	10.649	ug/l	99
5) Bromomethane	2.592	94	70415	10.461	ug/l	99
6) Chloroethane	2.732	64	62514	10.432	ug/l	97
7) Trichlorofluoromethane	3.049	101	115150	10.507	ug/l	94
8) Diethyl Ether	3.452	74	30390	10.481	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	57210	10.581	ug/l	100
10) Methyl Iodide	4.001	142	54184	9.287	ug/l	99
11) Tert butyl alcohol	4.866	59	20212	56.119	ug/l	99
12) 1,1-Dichloroethene	3.781	96	55669	10.475	ug/l	92
13) Acrolein	3.647	56	30081	57.030	ug/l	97
14) Allyl chloride	4.372	41	79145	10.121	ug/l	98
15) Acrylonitrile	5.049	53	62889	53.349	ug/l	99
16) Acetone	3.873	43	61290	53.821	ug/l	94
17) Carbon Disulfide	4.098	76	183399	10.583	ug/l	98
18) Methyl Acetate	4.385	43	33996	10.032	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	139820	10.153	ug/l	95
20) Methylene Chloride	4.604	84	77920	11.095	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	61826	10.352	ug/l	100
22) Diisopropyl ether	6.012	45	172602	10.157	ug/l	93
23) Vinyl Acetate	5.957	43	482714	51.372	ug/l	98
24) 1,1-Dichloroethane	5.903	63	106831	10.282	ug/l	99
25) 2-Butanone	6.896	43	83923	54.187	ug/l	96
26) 2,2-Dichloropropane	6.878	77	91579	10.215	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	68839	9.970	ug/l	99
28) Bromochloromethane	7.238	49	41820	10.146	ug/l	100
29) Tetrahydrofuran	7.262	42	49926	52.005	ug/l	99
30) Chloroform	7.415	83	109942	10.260	ug/l	93
31) Cyclohexane	7.701	56	103068	10.527	ug/l #	89
32) 1,1,1-Trichloroethane	7.616	97	96693	10.170	ug/l	98
36) 1,1-Dichloropropene	7.829	75	80479	10.243	ug/l	99
37) Ethyl Acetate	6.982	43	34854	10.560	ug/l	97
38) Carbon Tetrachloride	7.811	117	85932	10.070	ug/l	97
39) Methylcyclohexane	9.103	83	102275	9.885	ug/l	99
40) Benzene	8.073	78	243060	10.037	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	18825	9.872	ug/l	#	89
42) 1,2-Dichloroethane	8.152	62	65350	10.376	ug/l		99
43) Isopropyl Acetate	8.195	43	67669	10.144	ug/l		99
44) Trichloroethene	8.859	130	62689	10.017	ug/l		98
45) 1,2-Dichloropropane	9.134	63	56720	10.179	ug/l		97
46) Dibromomethane	9.225	93	33460	10.462	ug/l		98
47) Bromodichloromethane	9.420	83	81951	9.959	ug/l		97
48) Methyl methacrylate	9.213	41	31851	9.978	ug/l		96
49) 1,4-Dioxane	9.231	88	7705	205.471	ug/l		94
51) 4-Methyl-2-Pentanone	9.993	43	177157	51.484	ug/l		98
52) Toluene	10.164	92	150422	9.780	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	72507	9.730	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	85945	9.753	ug/l		100
55) 1,1,2-Trichloroethane	10.566	97	42712	9.981	ug/l		97
56) Ethyl methacrylate	10.432	69	52746	9.632	ug/l		98
57) 1,3-Dichloropropane	10.713	76	74433	10.256	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	119417	46.232	ug/l		98
59) 2-Hexanone	10.755	43	118452	50.553	ug/l		99
60) Dibromochloromethane	10.902	129	56045	9.925	ug/l		99
61) 1,2-Dibromoethane	11.011	107	41009	10.196	ug/l		99
64) Tetrachloroethene	10.640	164	70502	10.371	ug/l		98
65) Chlorobenzene	11.438	112	162985	9.925	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	54856	9.842	ug/l		97
67) Ethyl Benzene	11.511	91	273281	9.670	ug/l		99
68) m/p-Xylenes	11.621	106	212766	19.277	ug/l		99
69) o-Xylene	11.950	106	97841	9.465	ug/l		98
70) Styrene	11.963	104	155809	9.216	ug/l		99
71) Bromoform	12.127	173	32470	9.968	ug/l	#	97
73) Isopropylbenzene	12.249	105	254745	9.871	ug/l		99
74) N-amyl acetate	12.066	43	53943	9.857	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	47304	10.735	ug/l		99
76) 1,2,3-Trichloropropane	12.548	75	35353m	10.012	ug/l		
77) Bromobenzene	12.523	156	60728	9.864	ug/l		96
78) n-propylbenzene	12.590	91	303440	9.876	ug/l		100
79) 2-Chlorotoluene	12.676	91	175364	9.962	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	205544	9.855	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	15715	10.780	ug/l		96
82) 4-Chlorotoluene	12.767	91	181812	9.956	ug/l		99
83) tert-Butylbenzene	12.993	119	181408	9.630	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	201812	9.720	ug/l		100
85) sec-Butylbenzene	13.170	105	274178	9.908	ug/l		99
86) p-Isopropyltoluene	13.285	119	217799	9.482	ug/l		98
87) 1,3-Dichlorobenzene	13.279	146	120109	9.893	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	121160	10.060	ug/l		97
89) n-Butylbenzene	13.609	91	205420	9.737	ug/l		98
90) Hexachloroethane	13.871	117	47353	10.071	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	107656	10.110	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7032	10.250	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	61323	9.739	ug/l		99
94) Hexachlorobutadiene	15.017	225	37011	10.003	ug/l		99
95) Naphthalene	15.139	128	99780	9.293	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	53626	9.883	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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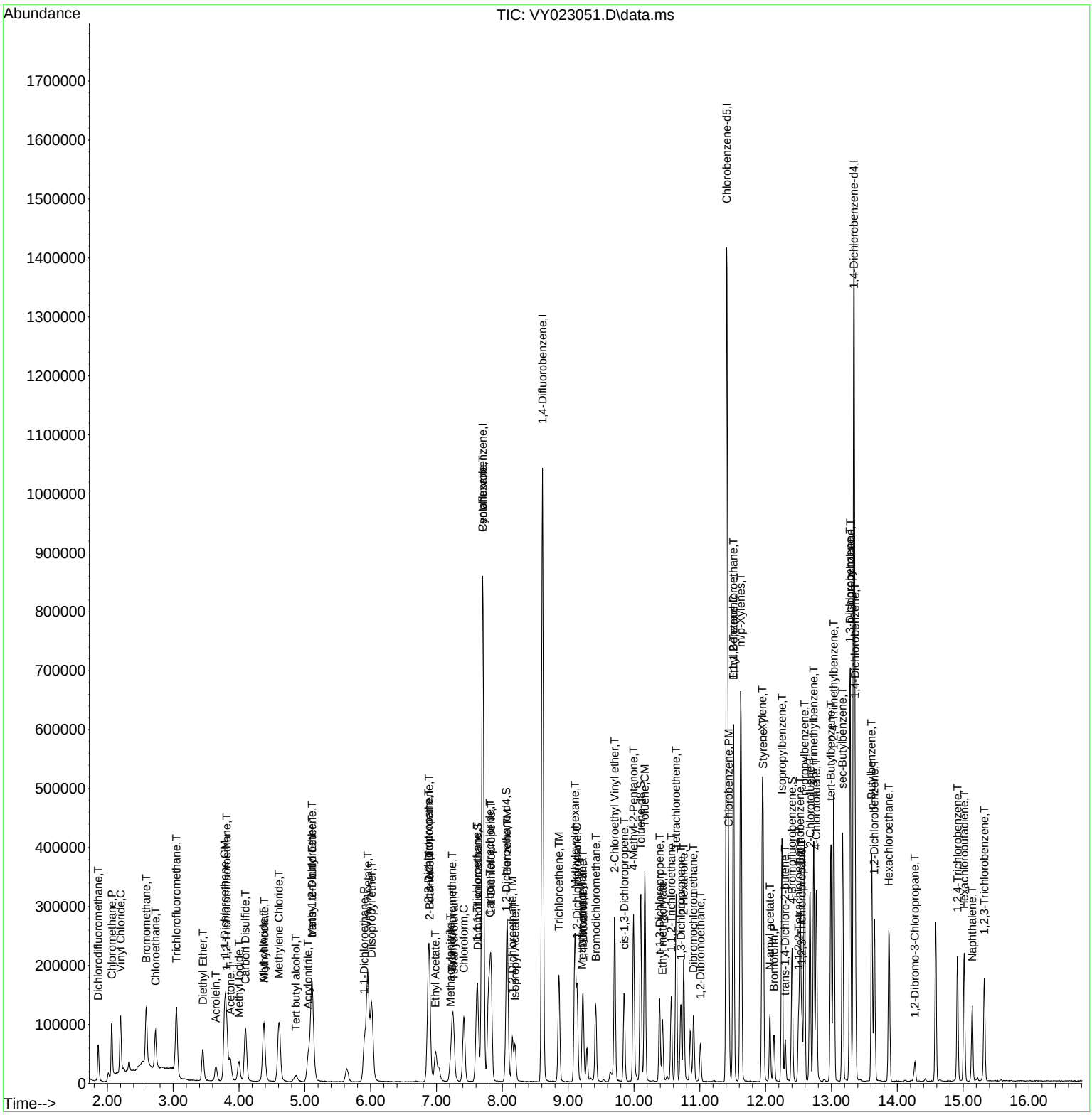
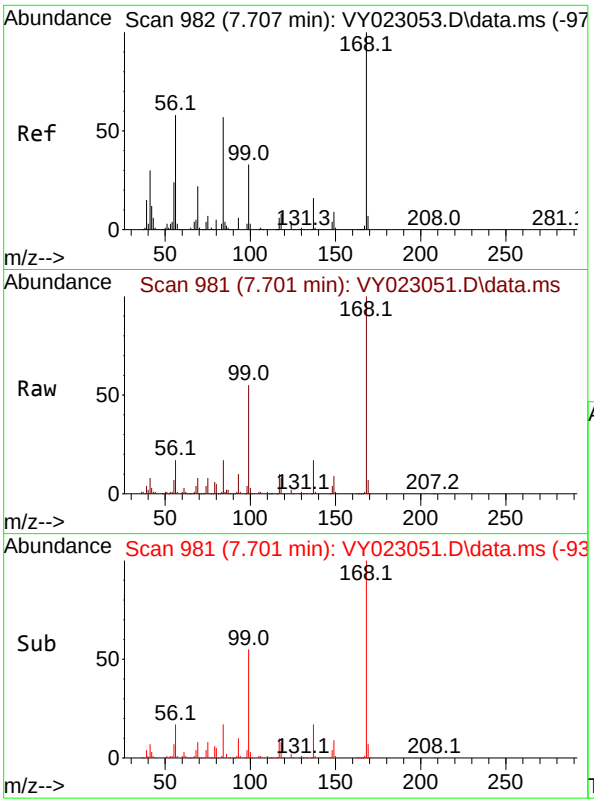
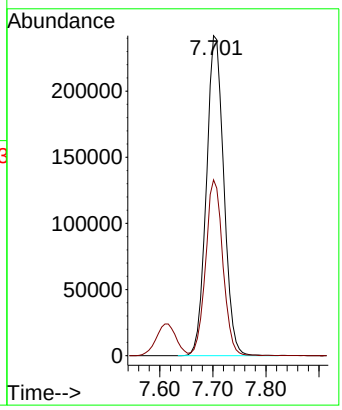




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:168 Resp: 55152

Ion	Ratio	Lower	Upper
168	100		
99	54.9	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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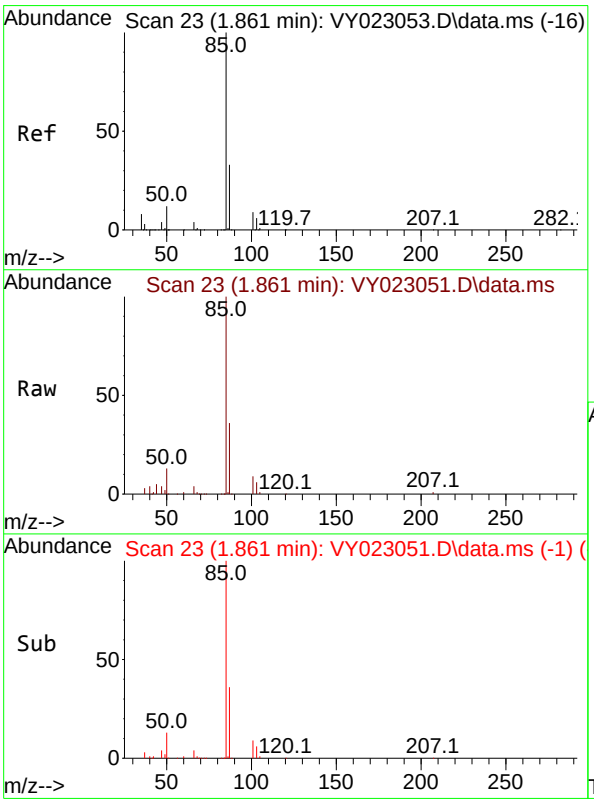
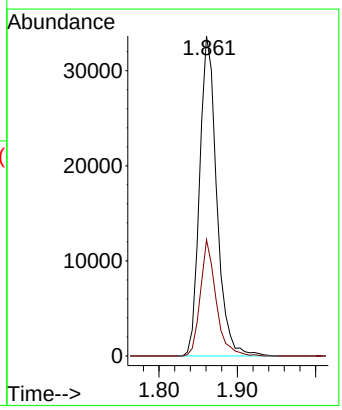
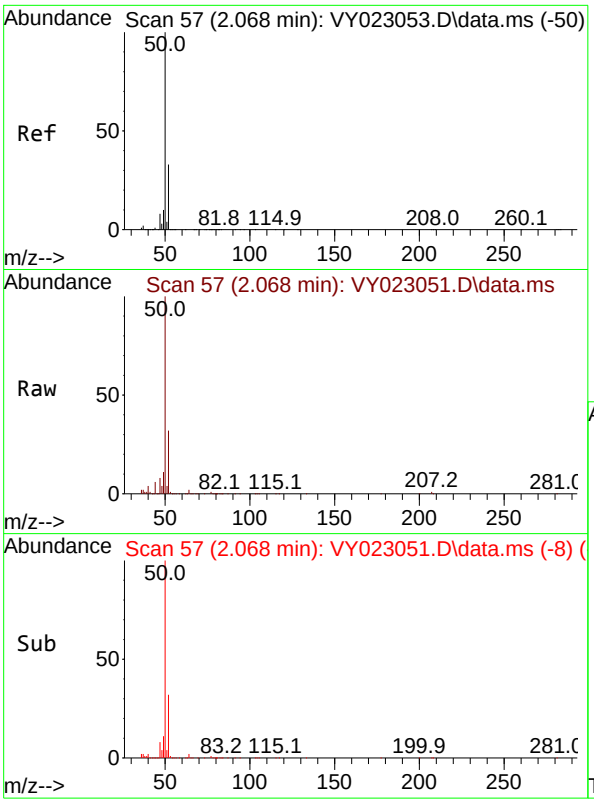


#2
Dichlorodifluoromethane
Concen: 11.334 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 85 Resp: 51022

Ion	Ratio	Lower	Upper
85	100		
87	36.3	16.6	49.8

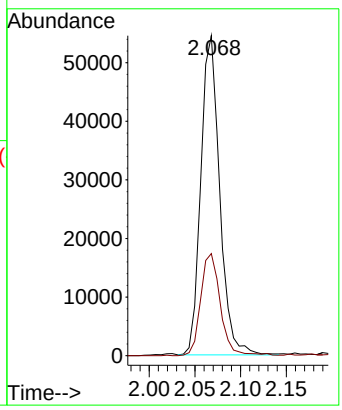




#3
Chloromethane
Concen: 10.695 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 50 Resp: 7798

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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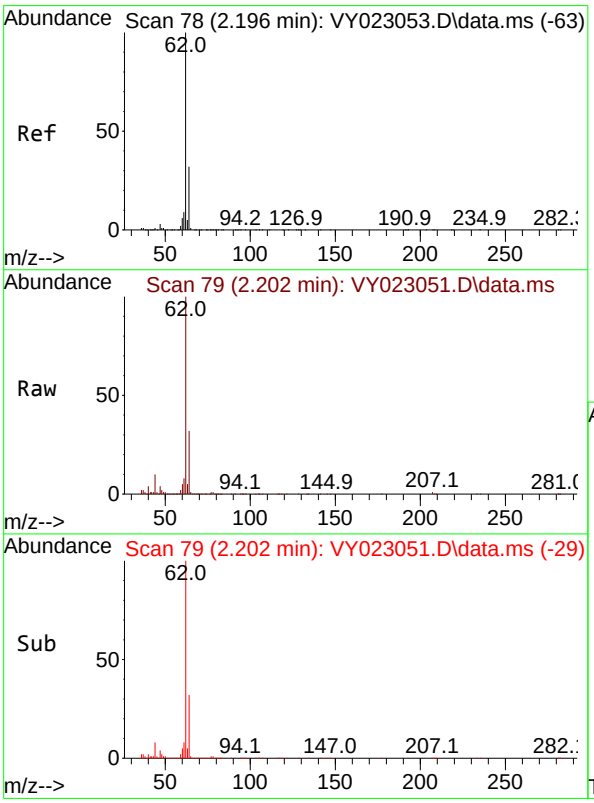
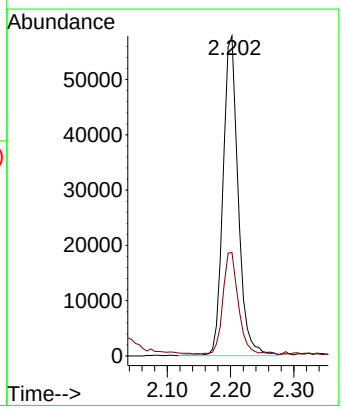
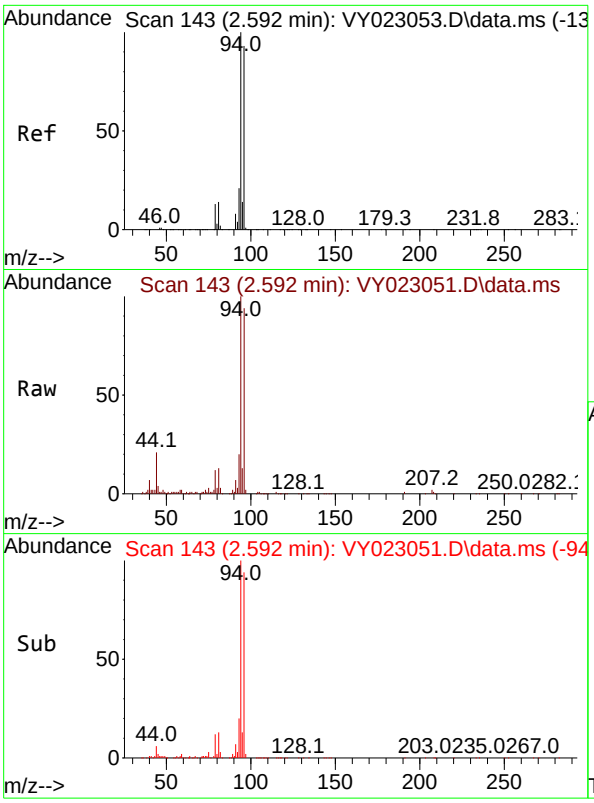


#4
Vinyl Chloride
Concen: 10.649 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 95983

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.4	38.0





#5
Bromomethane
Concen: 10.461 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 94 Resp: 7041

Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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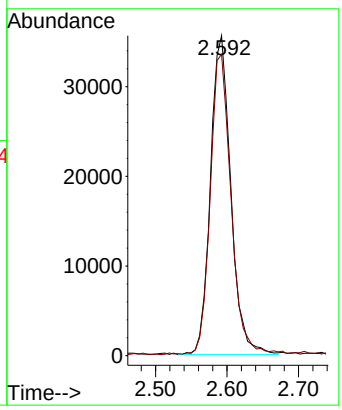
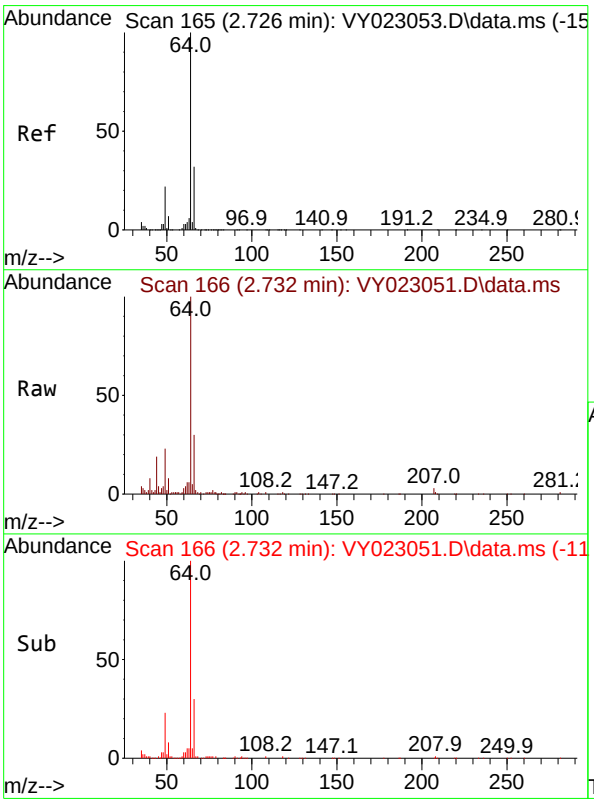
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

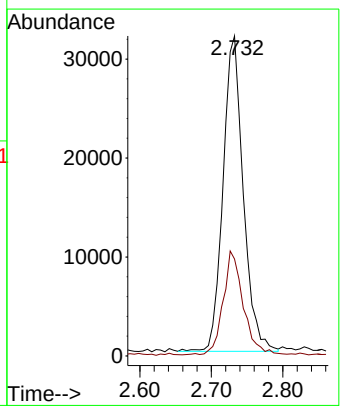


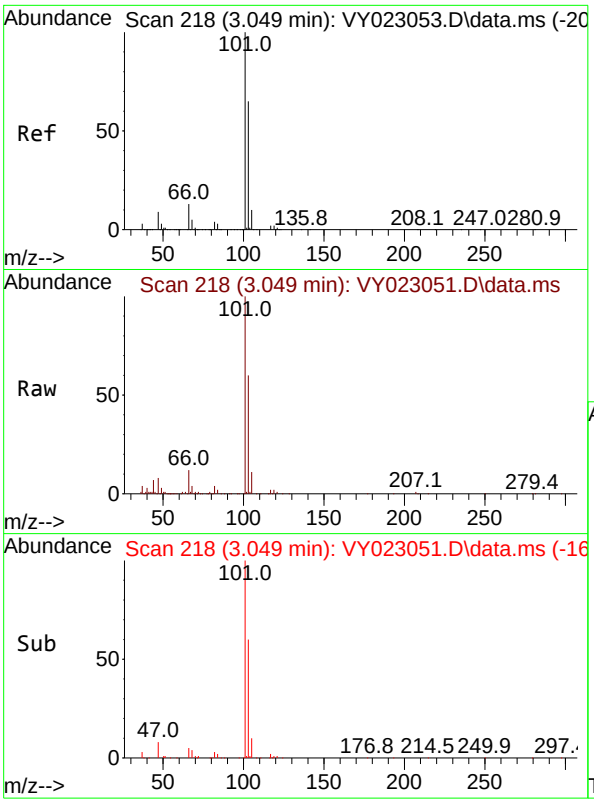


#6
Chloroethane
Concen: 10.432 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 64 Resp: 62514

Ion	Ratio	Lower	Upper
64	100		
66	30.4	25.8	38.6





#7
Trichlorofluoromethane
Concen: 10.507 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:101 Resp: 11515

Ion	Ratio	Lower	Upper
101	100		
103	60.1	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/14/2025
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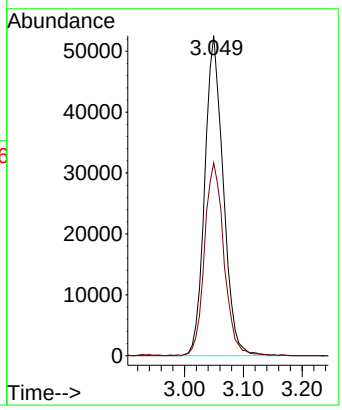
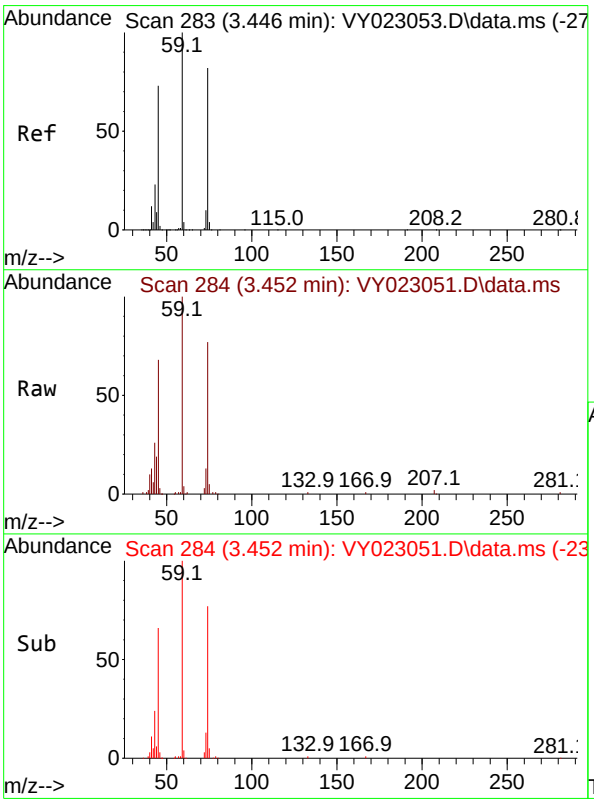
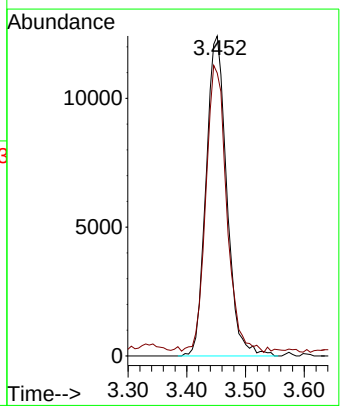


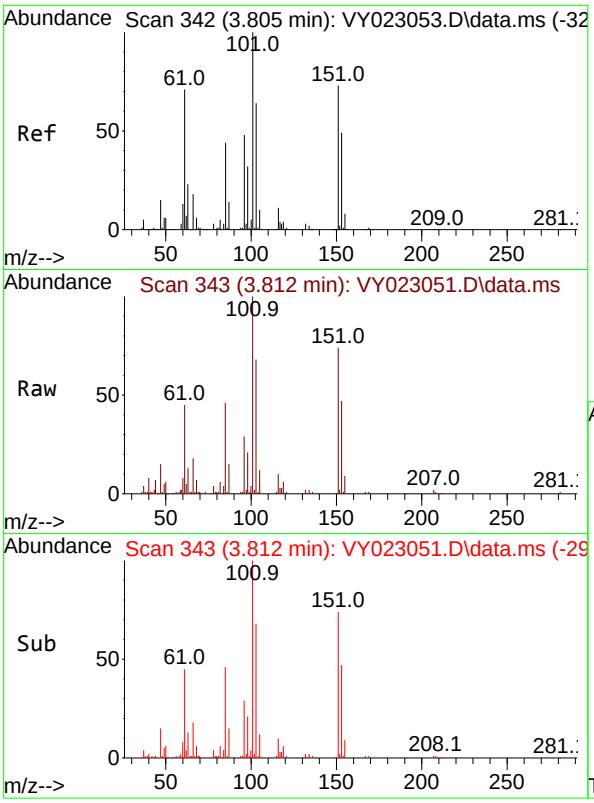


#8
Diethyl Ether
Concen: 10.481 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 74 Resp: 30390

Ion	Ratio	Lower	Upper
74	100		
45	90.2	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.581 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

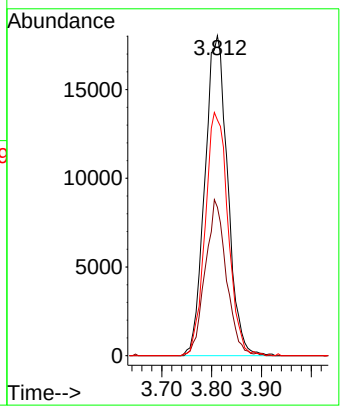
Tgt Ion:101 Resp: 5721

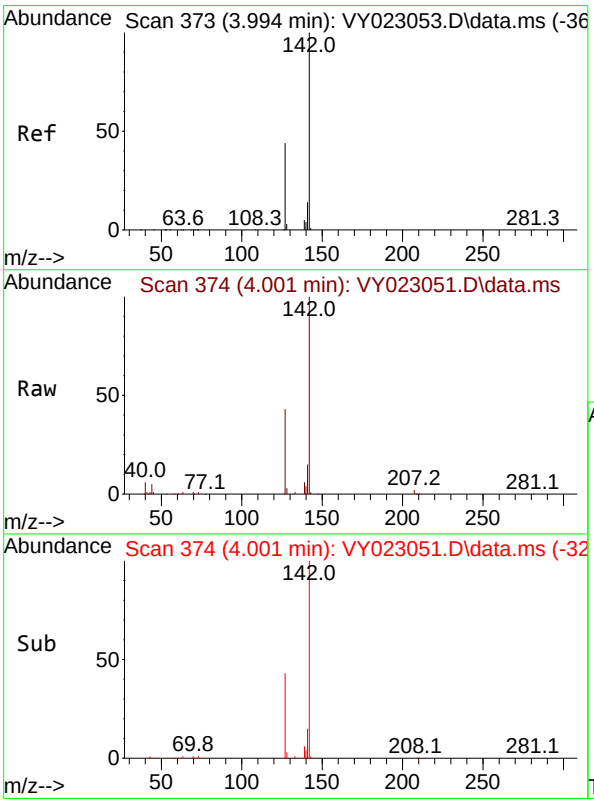
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.3	54.5
151	76.3	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

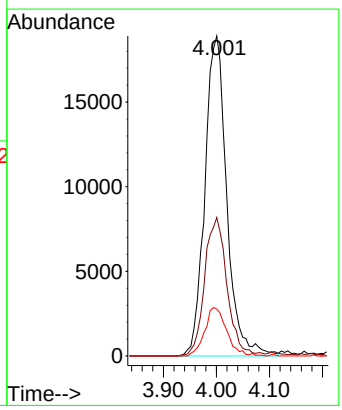


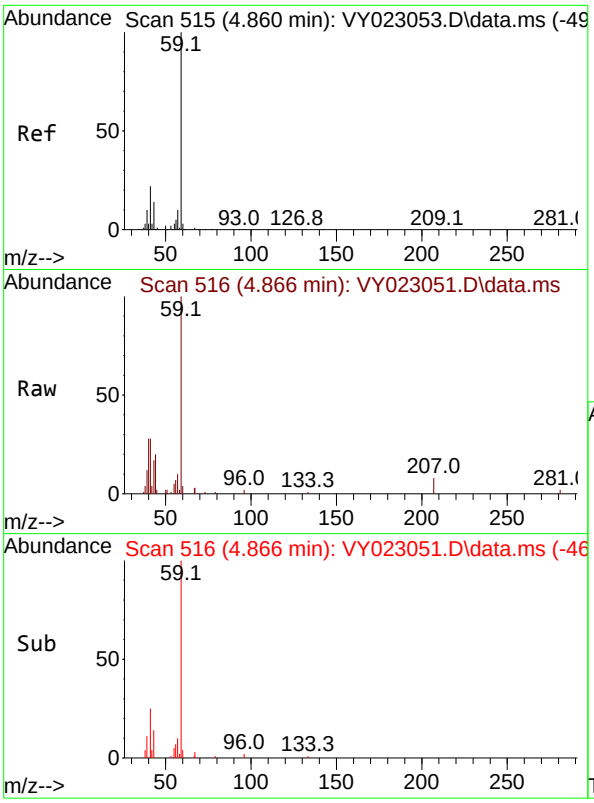


#10
Methyl Iodide
Concen: 9.287 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:142 Resp: 54184

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.9	52.3
141	14.9	11.3	16.9

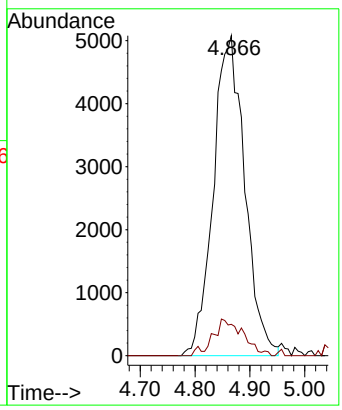




#11
Tert butyl alcohol
Concen: 56.119 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 59 Resp: 2021

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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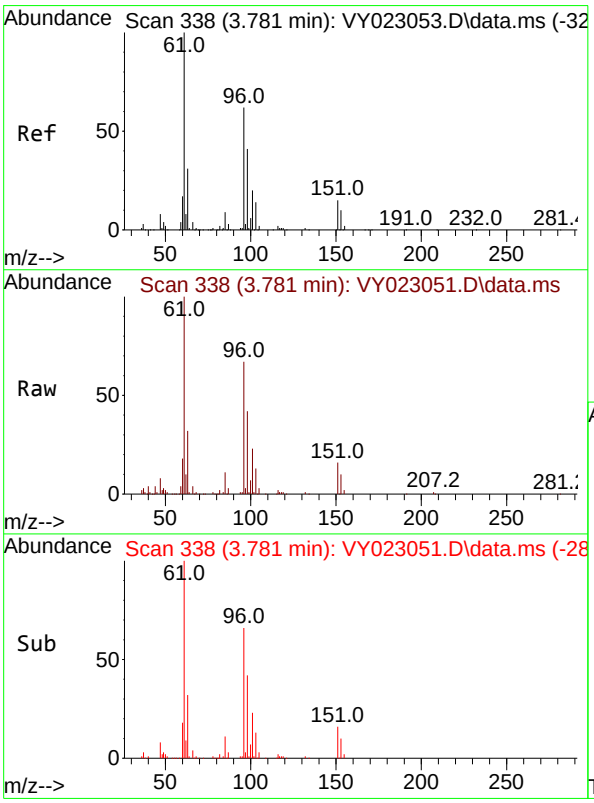
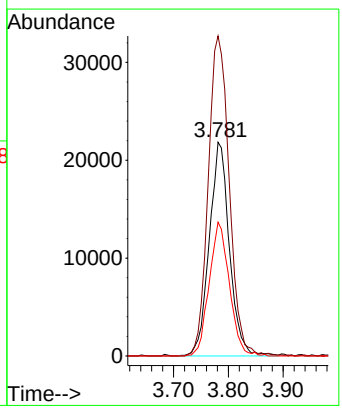
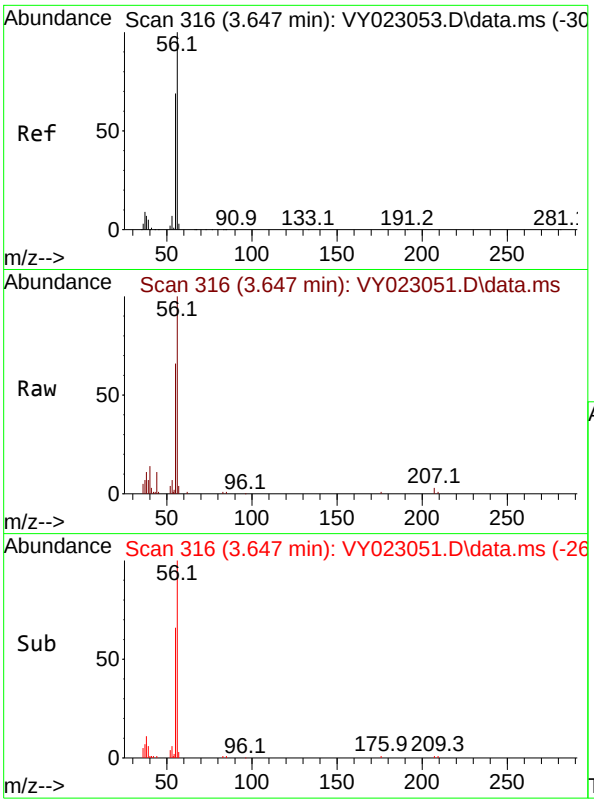


#12
1,1-Dichloroethene
Concen: 10.475 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 55669

Ion	Ratio	Lower	Upper
96	100		
61	149.7	129.4	194.2
98	62.6	52.8	79.2

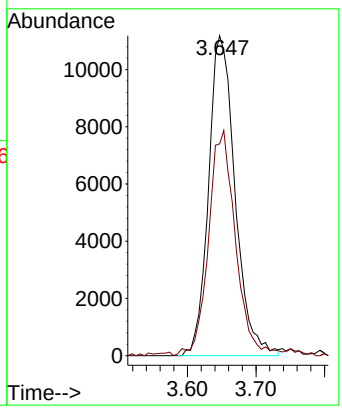




#13
Acrolein
Concen: 57.030 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 56 Resp: 3008

Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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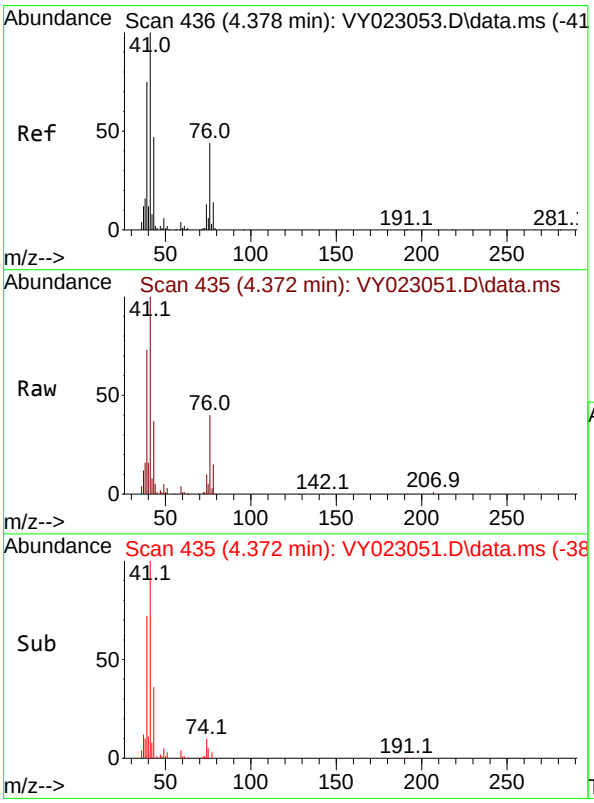
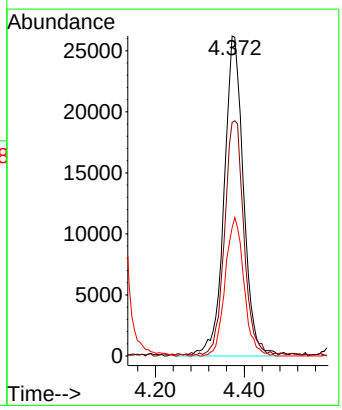
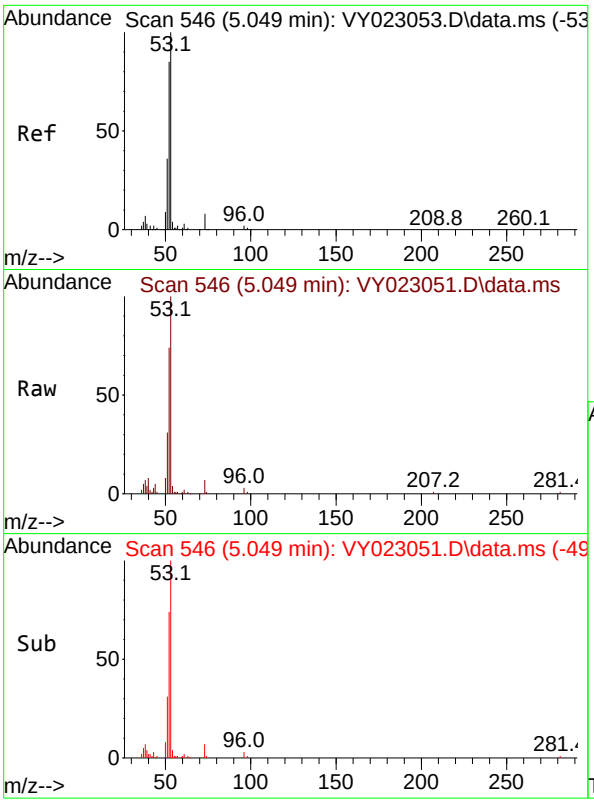


#14
Allyl chloride
Concen: 10.121 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 79145

Ion	Ratio	Lower	Upper
41	100		
39	72.7	59.8	89.6
76	41.9	33.7	50.5

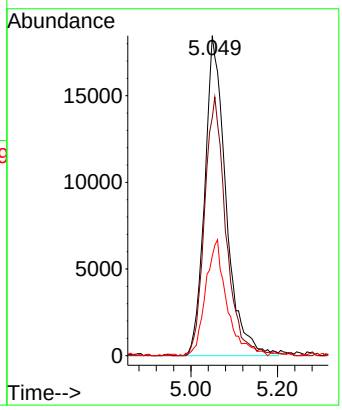




#15
Acrylonitrile
Concen: 53.349 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 53 Resp: 6288

Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.3	97.9
51	36.5	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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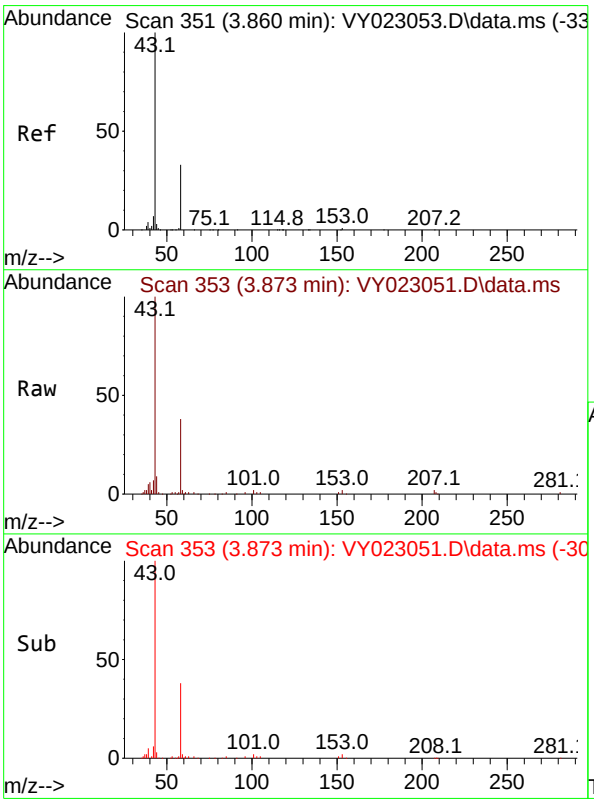
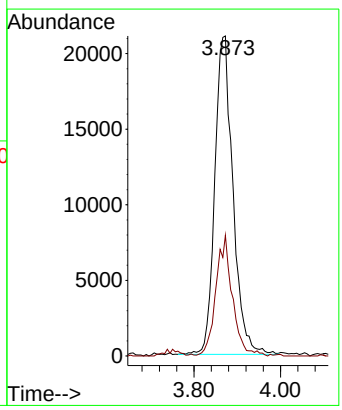
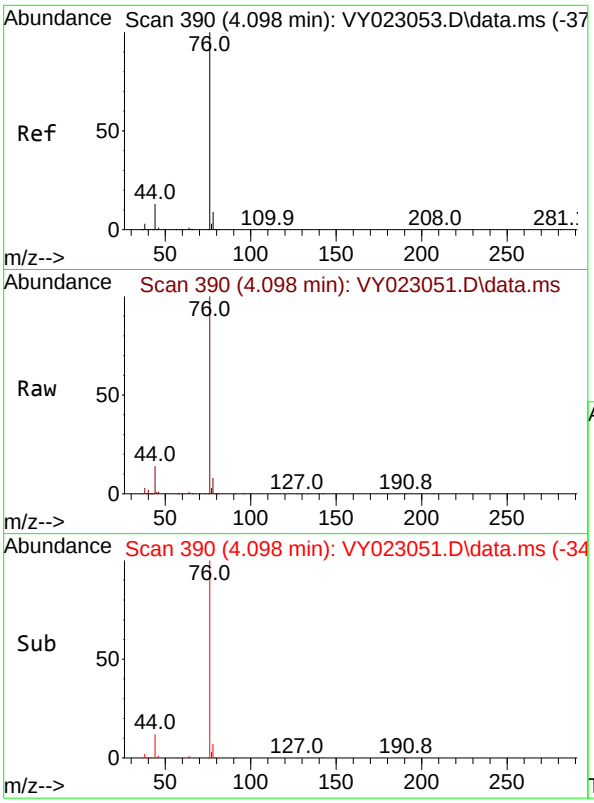


#16
Acetone
Concen: 53.821 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 61290

Ion	Ratio	Lower	Upper
43	100		
58	37.4	27.1	40.7





#17
Carbon Disulfide
Concen: 10.583 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 76 Resp: 18339

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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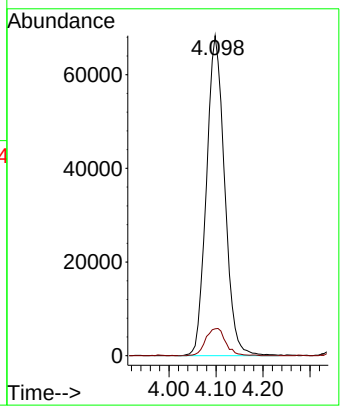
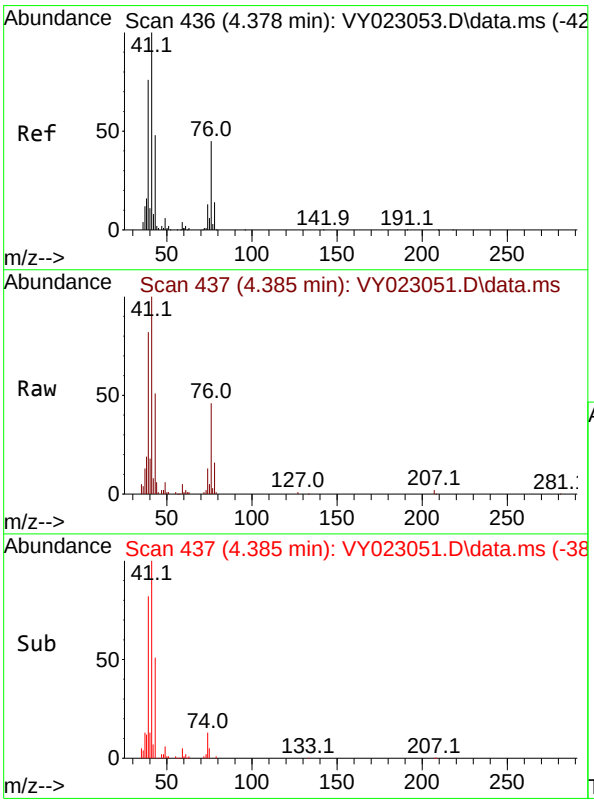
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

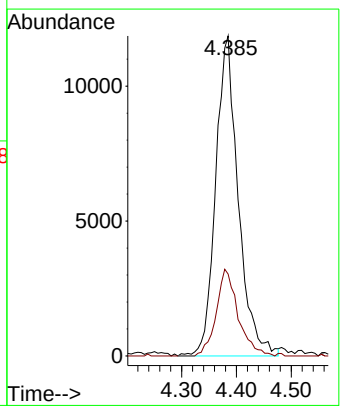


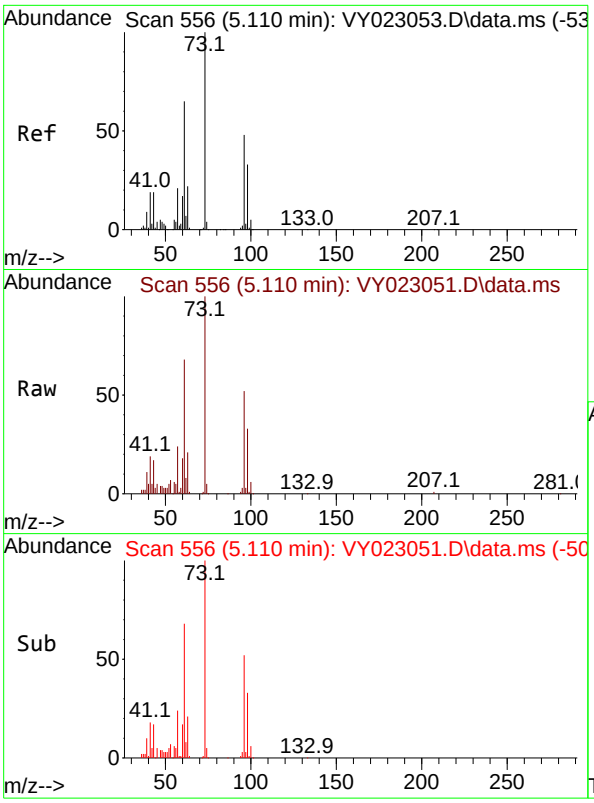


#18
Methyl Acetate
Concen: 10.032 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 33996

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.2	31.8

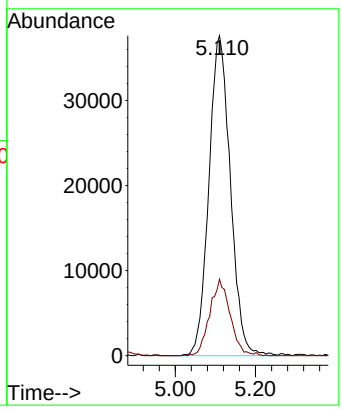




#19
Methyl tert-butyl Ether
Concen: 10.153 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 73 Resp: 13982

Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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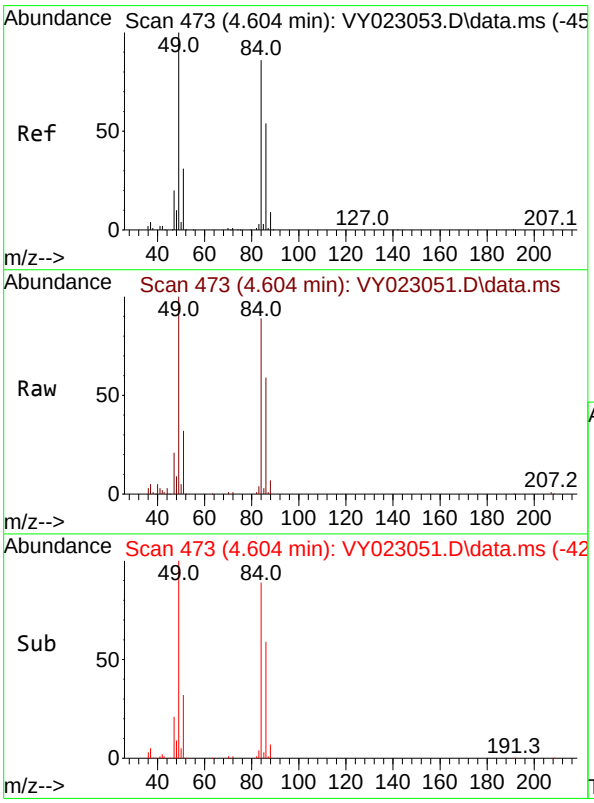
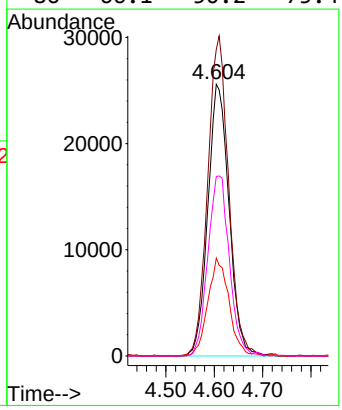
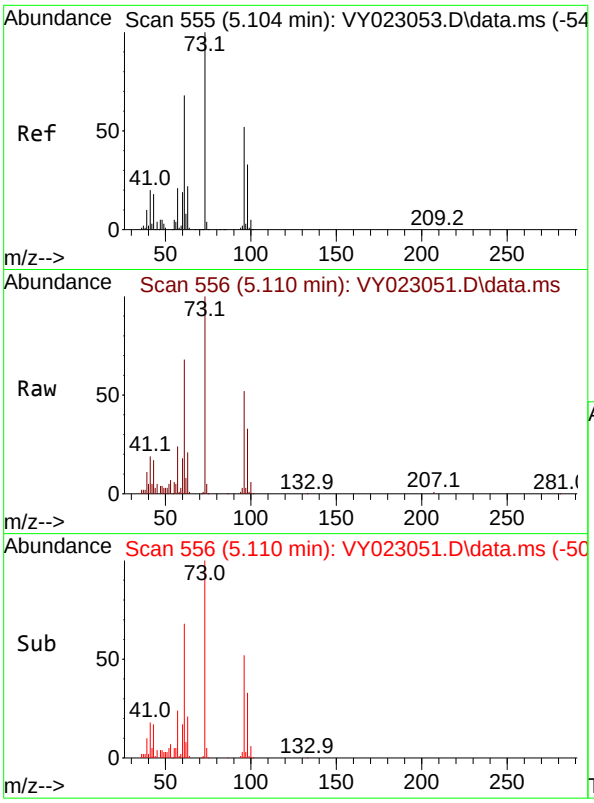


#20
Methylene Chloride
Concen: 11.095 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 84 Resp: 77920

Ion	Ratio	Lower	Upper
84	100		
49	112.8	93.0	139.6
51	36.1	29.0	43.4
86	66.1	50.2	75.4

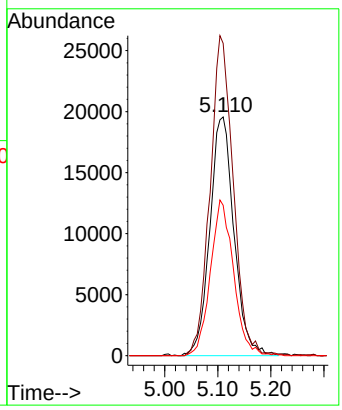




#21
trans-1,2-Dichloroethene
Concen: 10.352 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 6182

Ion	Ratio	Lower	Upper
96	100		
61	130.8	104.8	157.2
98	63.0	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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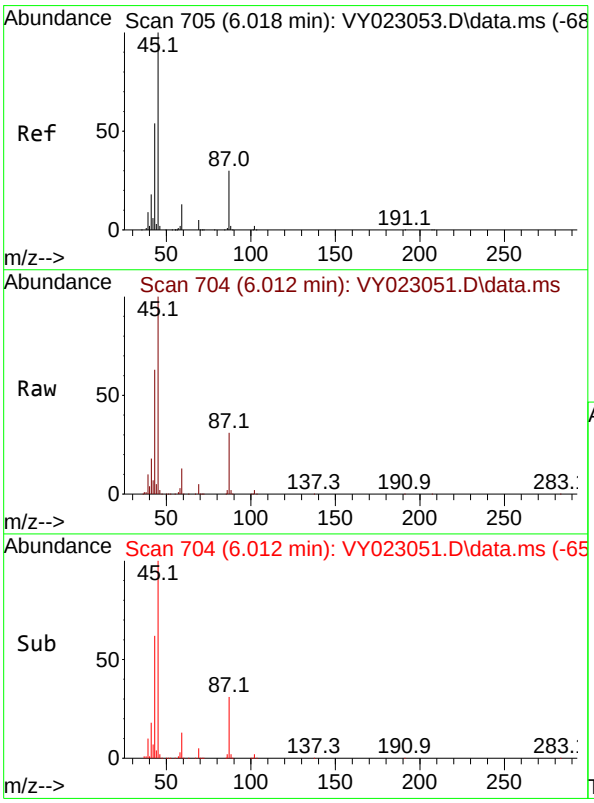
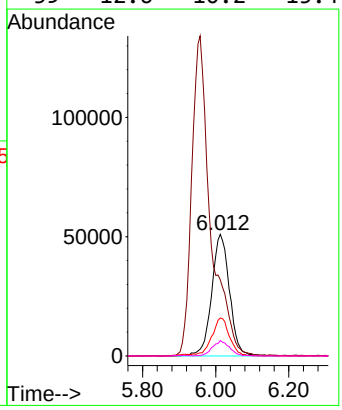
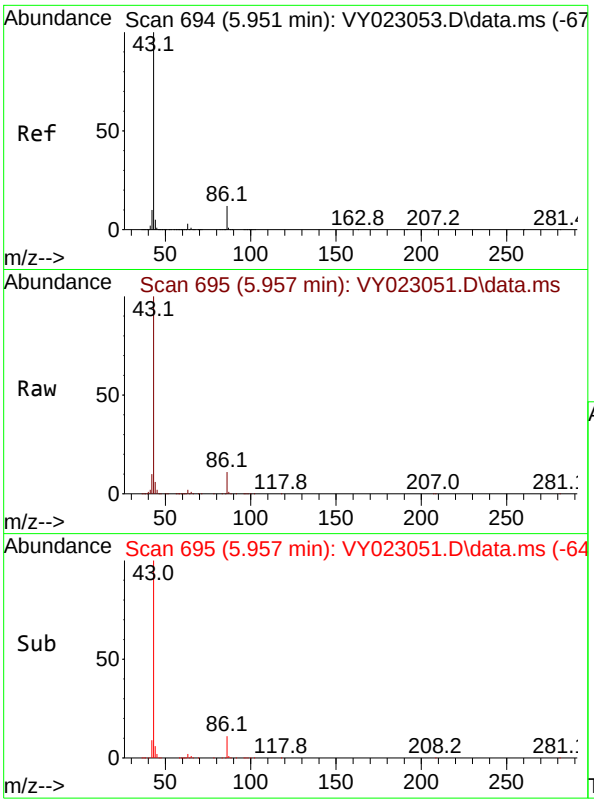


#22
Diisopropyl ether
Concen: 10.157 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 45 Resp: 172602

Ion	Ratio	Lower	Upper
45	100		
43	62.2	43.4	65.0
87	31.2	24.4	36.6
59	12.6	10.2	15.4





#23
Vinyl Acetate
Concen: 51.372 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 48271

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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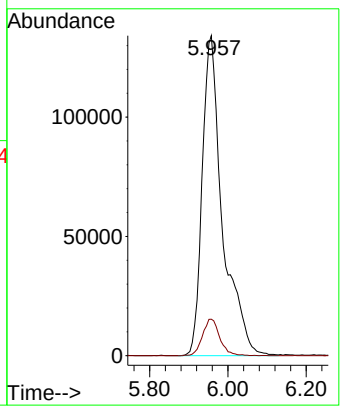
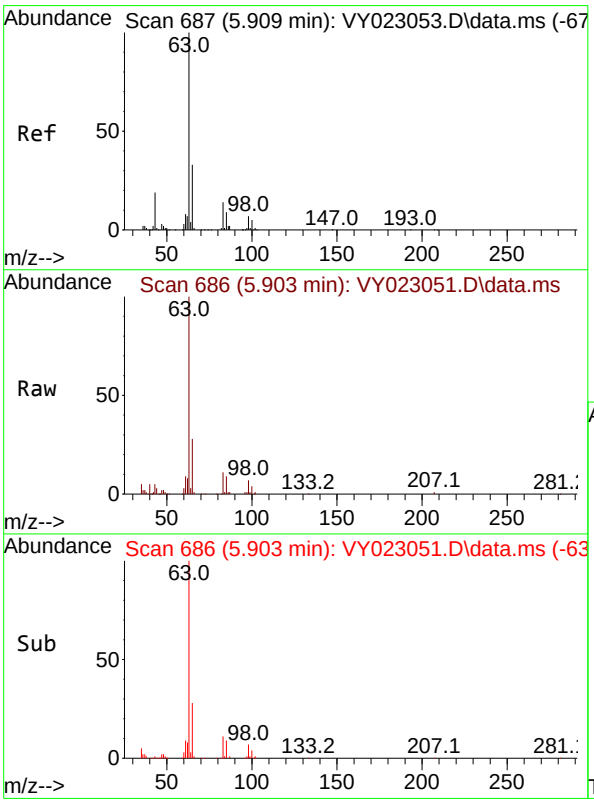
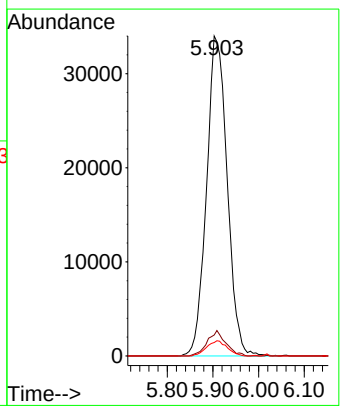


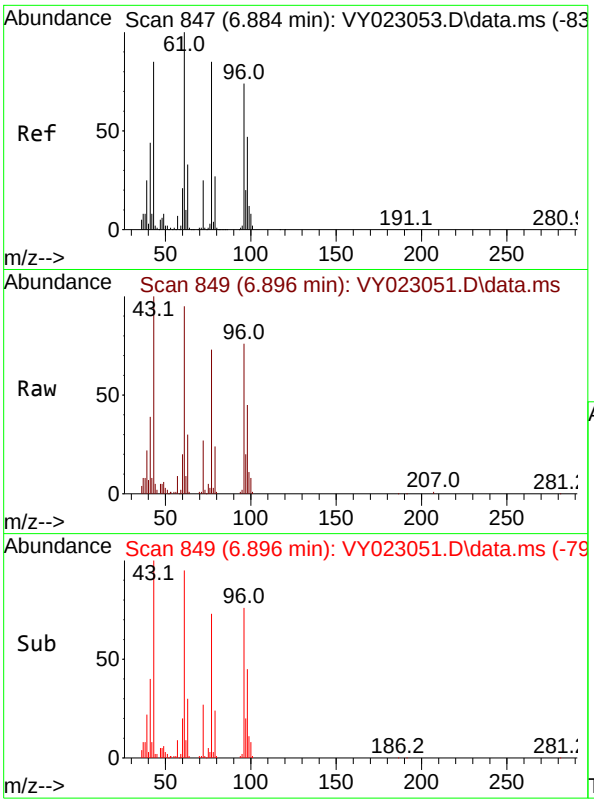


#24
1,1-Dichloroethane
Concen: 10.282 ug/l
RT: 5.903 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 106831

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.6
100	4.2	2.4	7.1





#25
2-Butanone
Concen: 54.187 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 8392

Ion	Ratio	Lower	Upper
43	100		
72	27.3	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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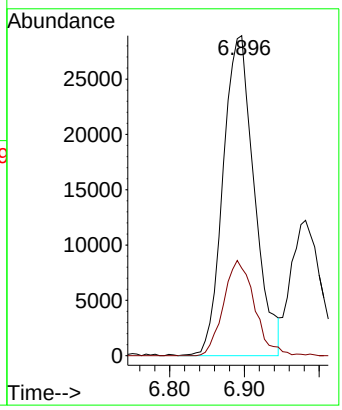
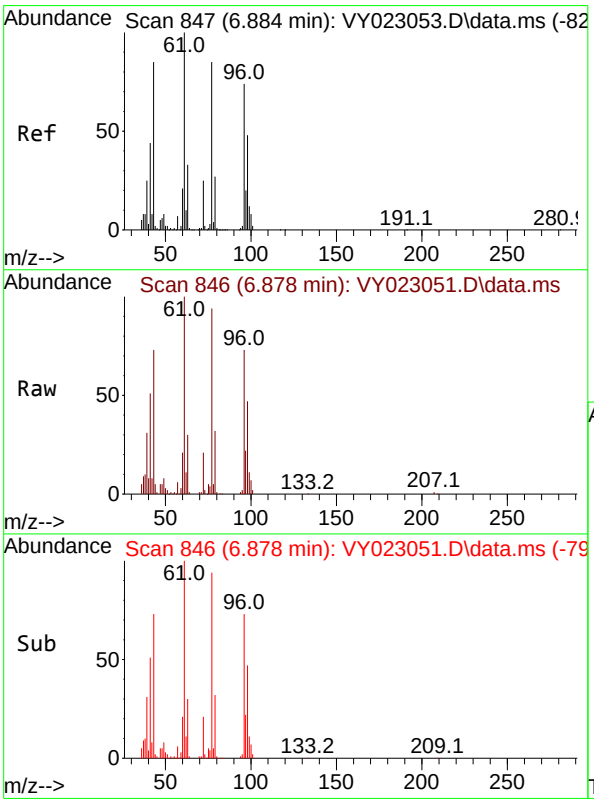
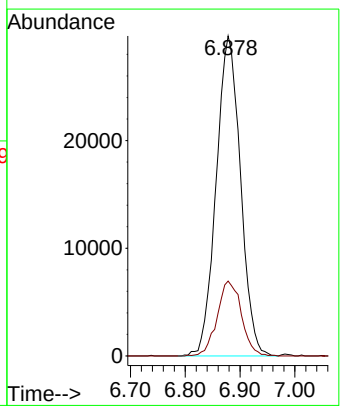


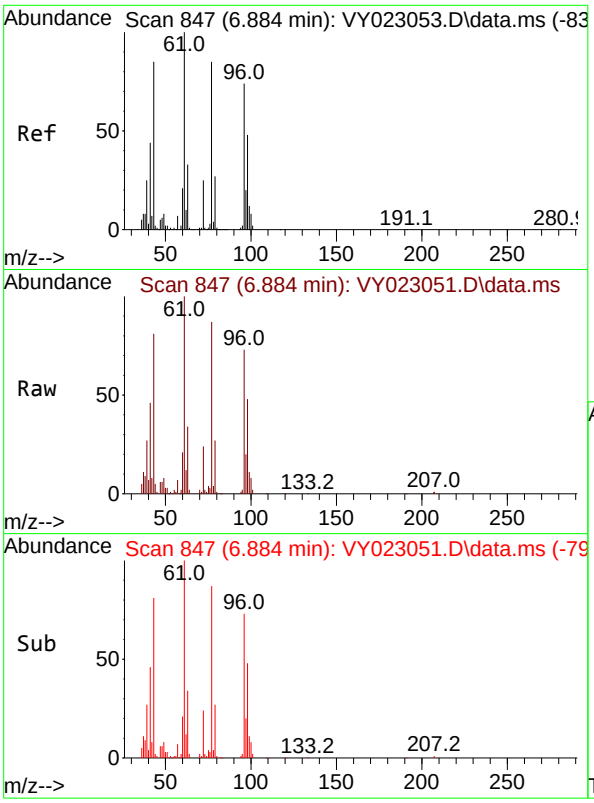


#26
2,2-Dichloropropane
Concen: 10.215 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 77 Resp: 91579

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 9.970 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 6883

Ion	Ratio	Lower	Upper
96	100		
61	139.5	0.0	278.6
98	63.6	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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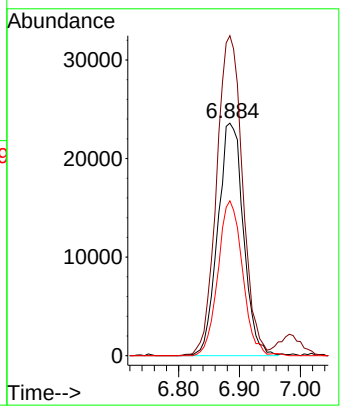
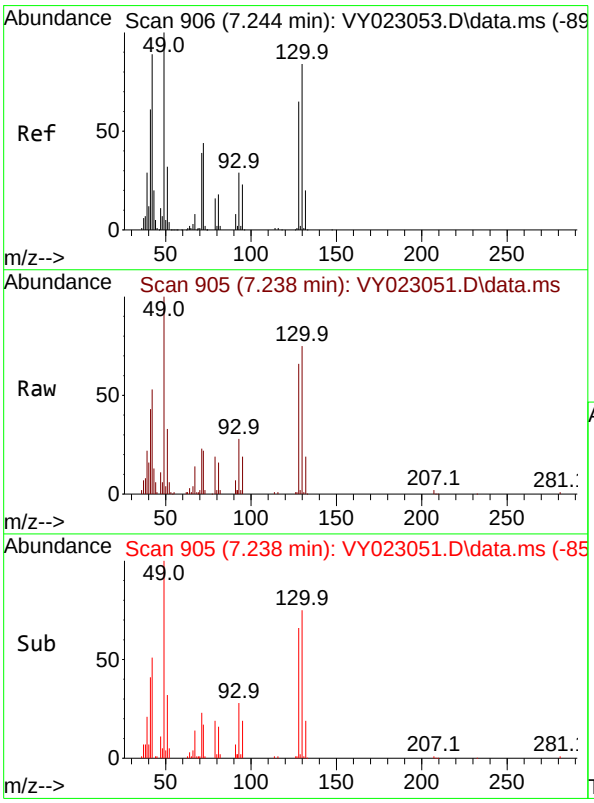
Supervised By :Semsettin Yesilyurt 08/14/2025

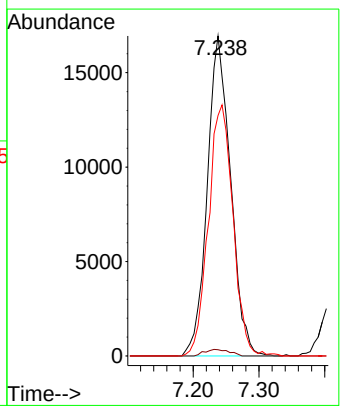


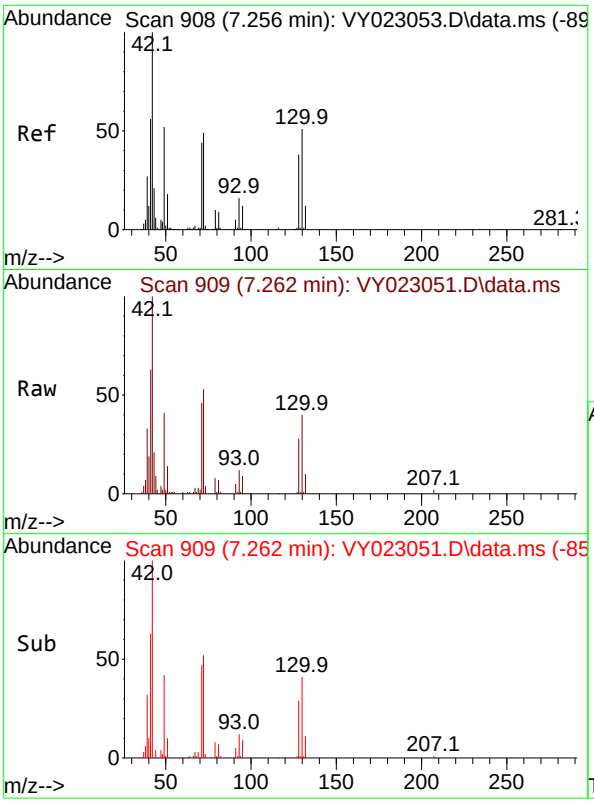


#28
Bromochloromethane
Concen: 10.146 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 49 Resp: 41820

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.8	66.4	99.6

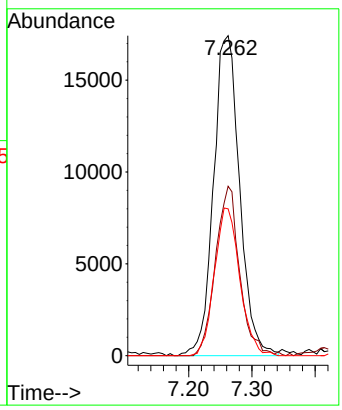




#29
Tetrahydrofuran
Concen: 52.005 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 42 Resp: 4992(

Ion	Ratio	Lower	Upper
42	100		
72	49.0	39.4	59.2
71	44.8	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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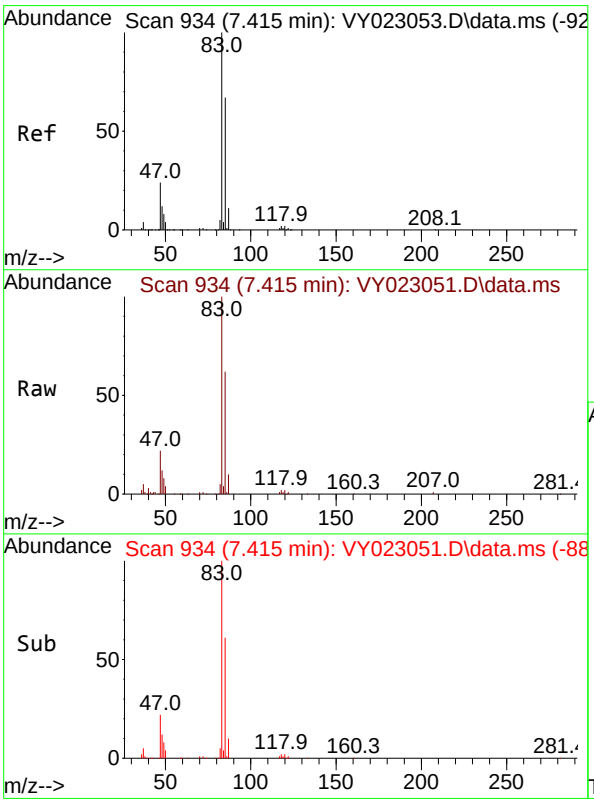
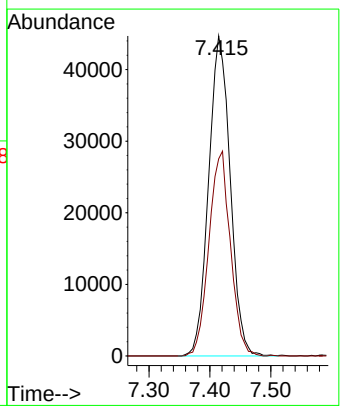
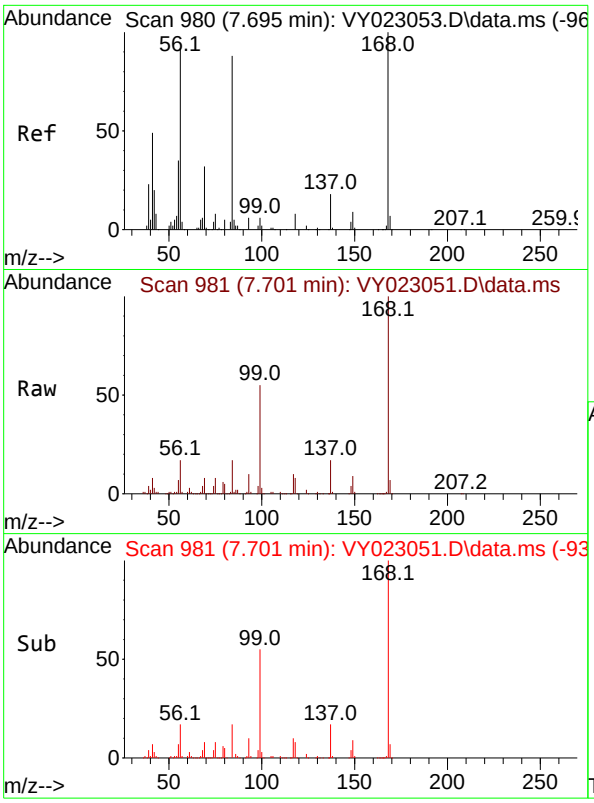


#30
Chloroform
Concen: 10.260 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 109942

Ion	Ratio	Lower	Upper
83	100		
85	61.6	53.8	80.8

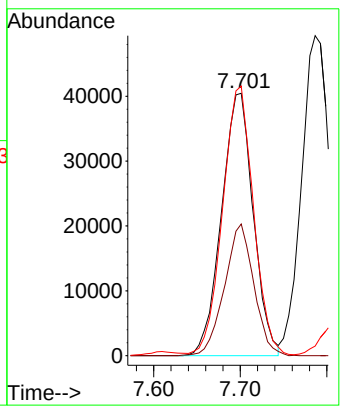




#31
Cyclohexane
Concen: 10.527 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 56 Resp: 10306

Ion	Ratio	Lower	Upper
56	100		
69	50.2	28.2	42.2
84	101.8	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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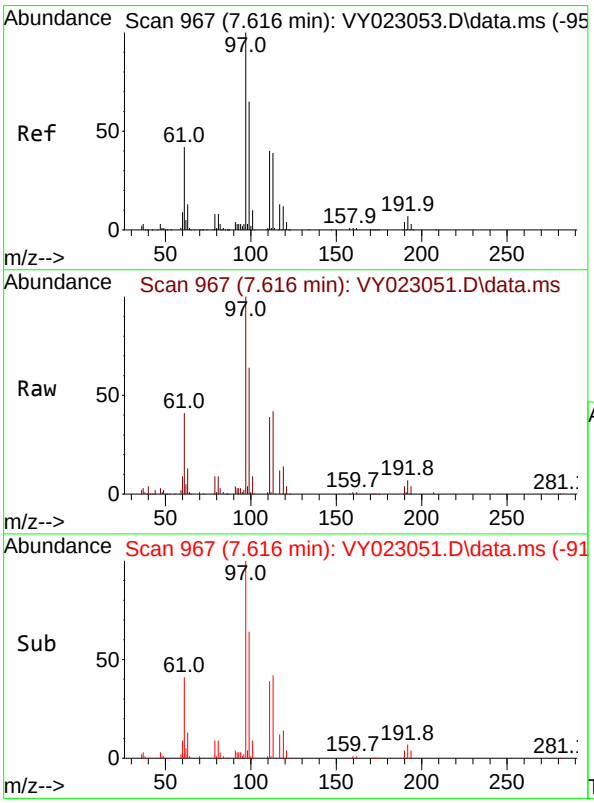
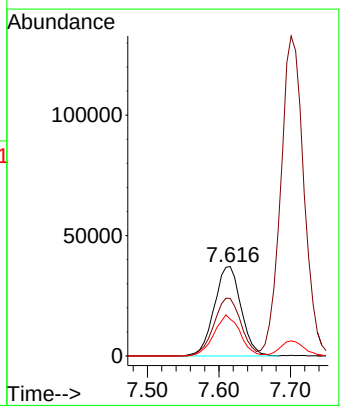
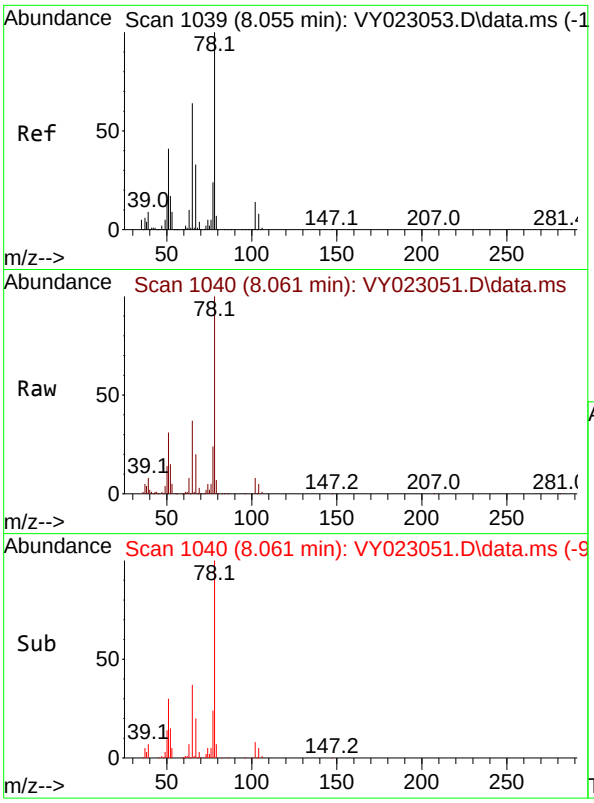


#32
1,1,1-Trichloroethane
Concen: 10.170 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 97 Resp: 96693

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	44.2	34.2	51.2





#33
1,2-Dichloroethane-d4
Concen: 10.274 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 65 Resp: 5400

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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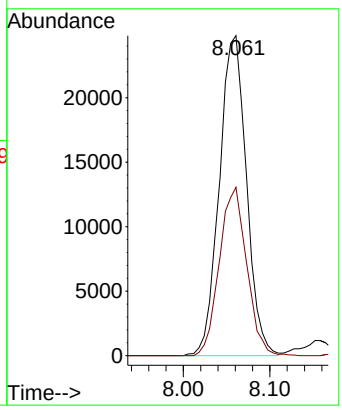
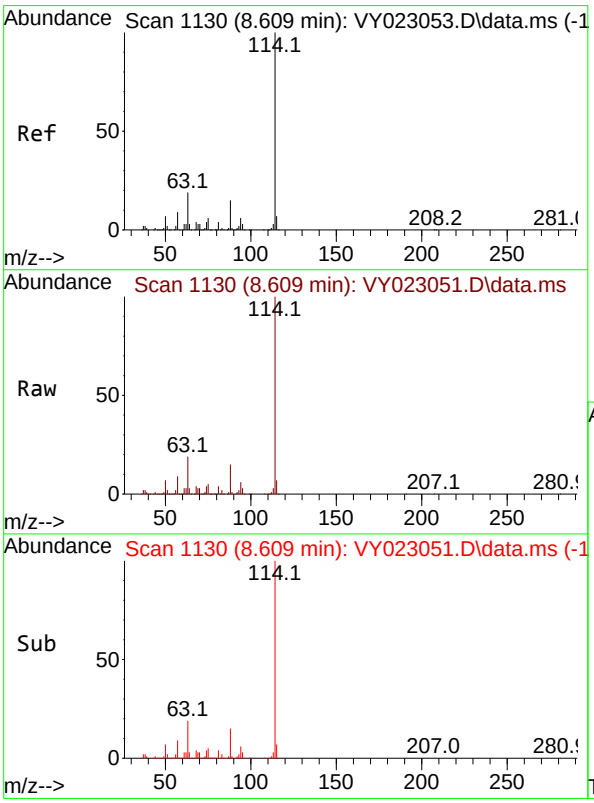
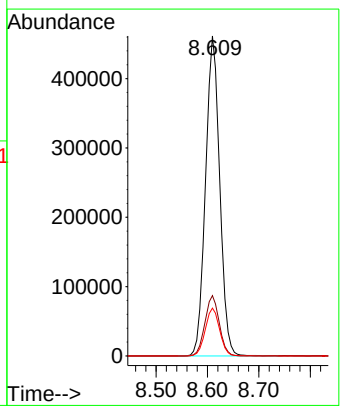


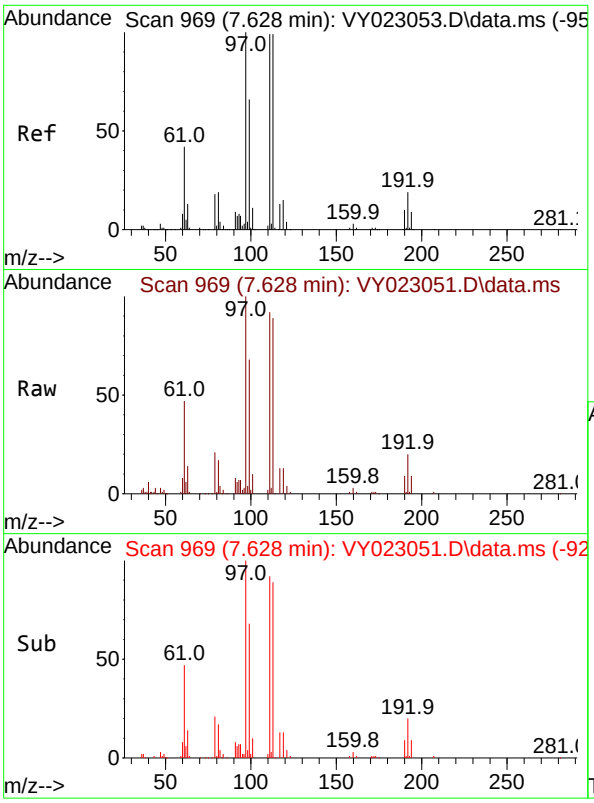


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:114 Resp: 883548

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	38.4
88	14.9	0.0	30.0





#35
Dibromofluoromethane
Concen: 10.009 ug/l
RT: 7.628 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:113 Resp: 5291(

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	20.5	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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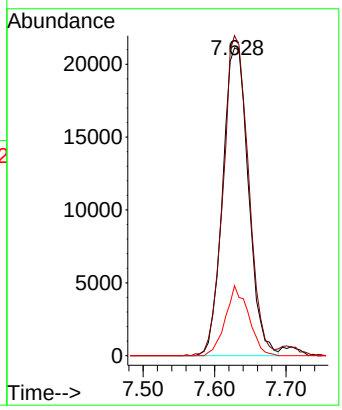
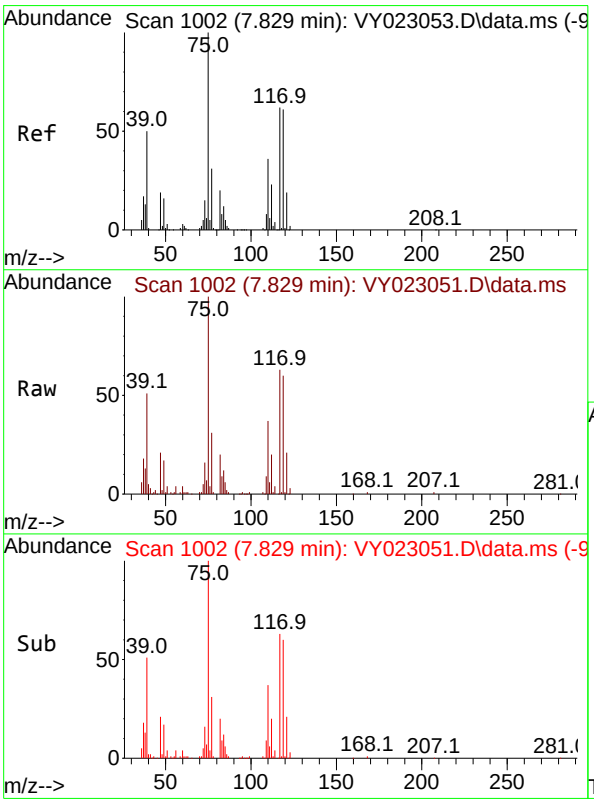
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

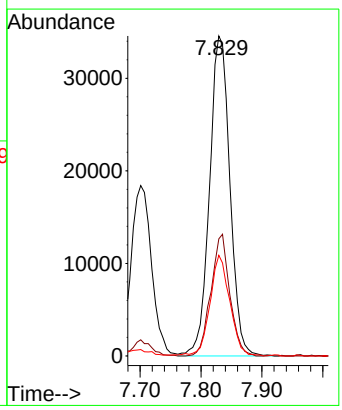


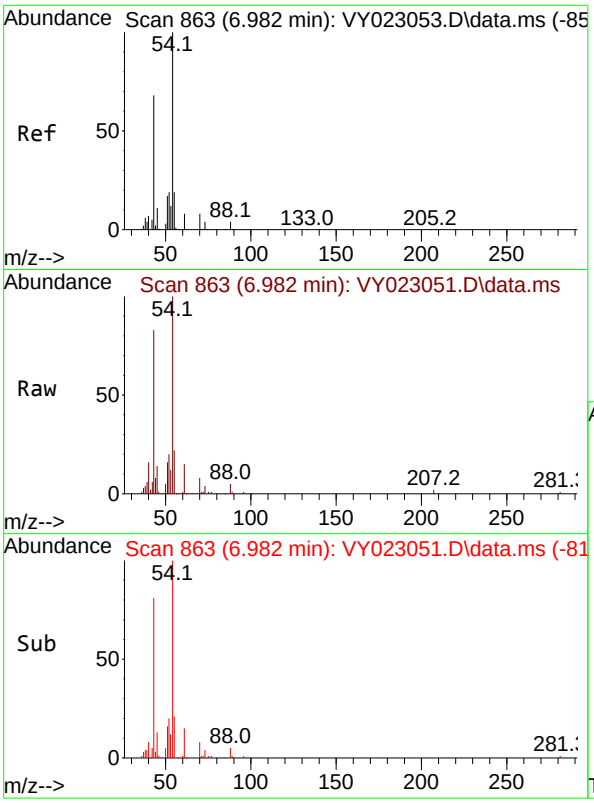


#36
1,1-Dichloropropene
Concen: 10.243 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 80479

Ion	Ratio	Lower	Upper
75	100		
110	35.2	18.1	54.4
77	30.7	24.6	37.0





#37
Ethyl Acetate
Concen: 10.560 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 3485

Ion	Ratio	Lower	Upper
43	100		
61	16.5	11.9	17.9
70	11.7	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
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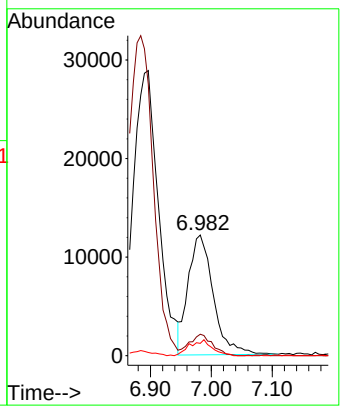
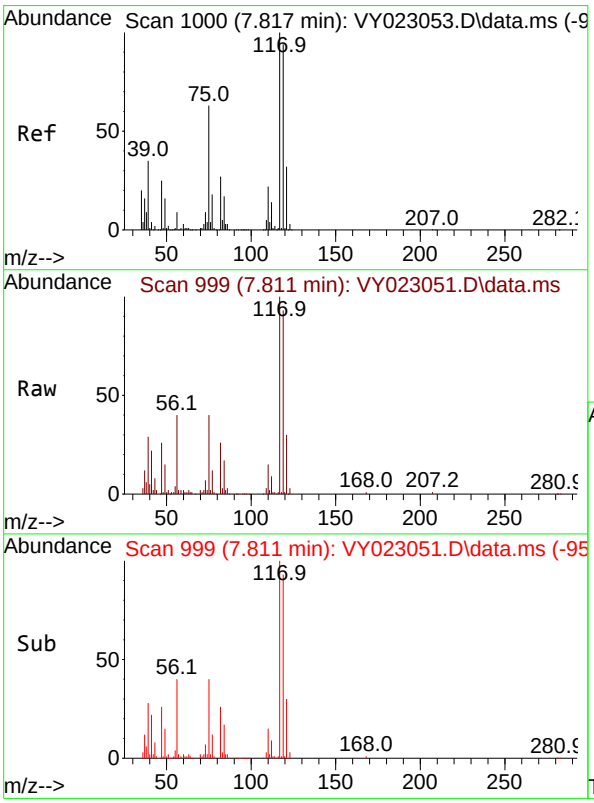
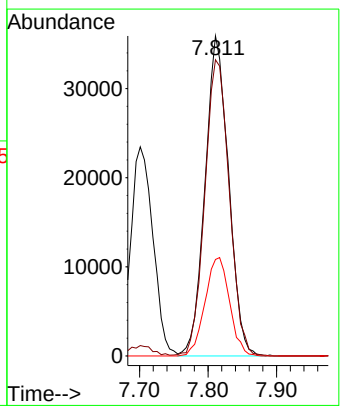


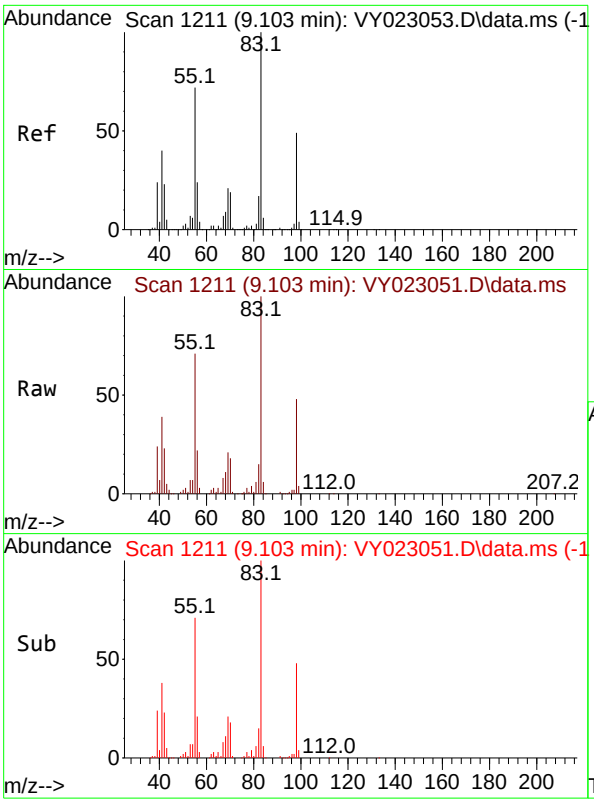


#38
Carbon Tetrachloride
Concen: 10.070 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 85932

Ion	Ratio	Lower	Upper
117	100		
119	92.5	75.6	113.4
121	30.1	25.8	38.8





#39
Methylcyclohexane
Concen: 9.885 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 10227

Ion	Ratio	Lower	Upper
83	100		
55	71.3	57.6	86.4
98	48.2	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
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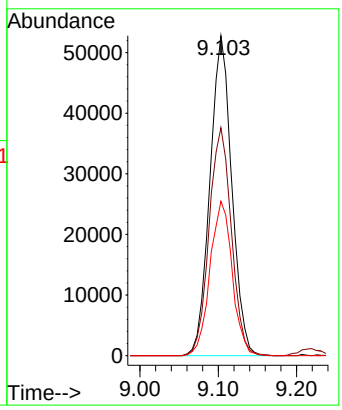
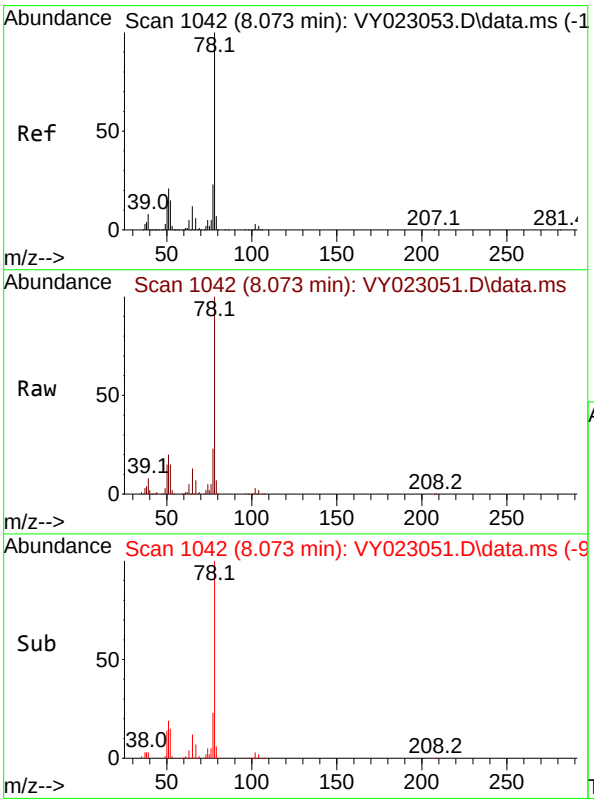
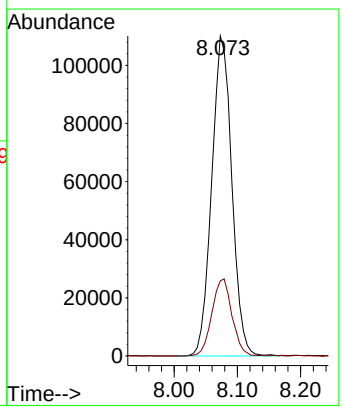


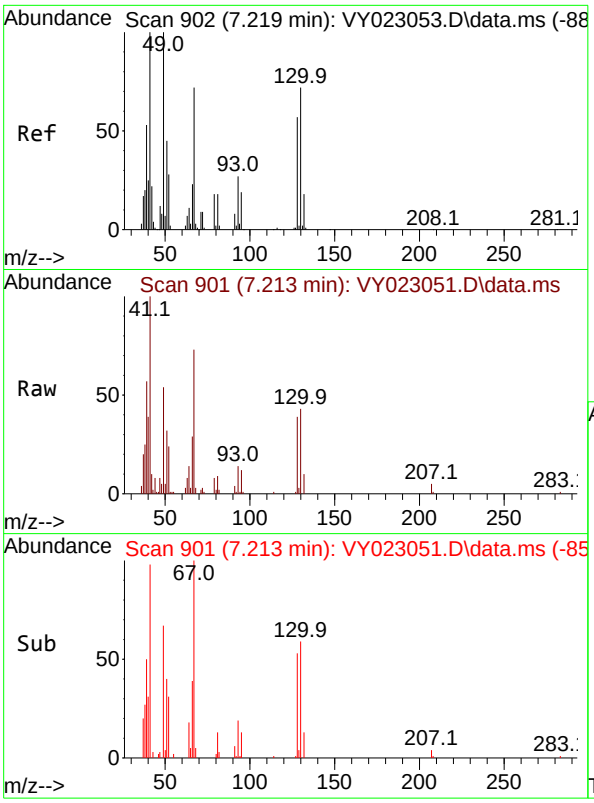


#40
Benzene
Concen: 10.037 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 78 Resp: 243060

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	28.0

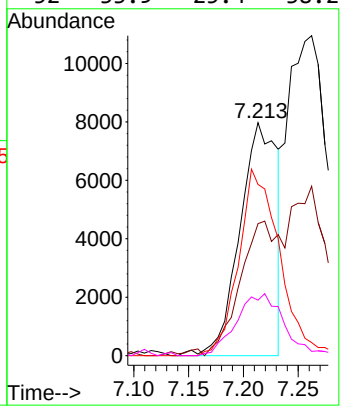




#41
Methacrylonitrile
Concen: 9.872 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 1882

Ion	Ratio	Lower	Upper
41	100		
39	66.1	43.4	65.2
67	88.6	63.6	95.4
52	33.9	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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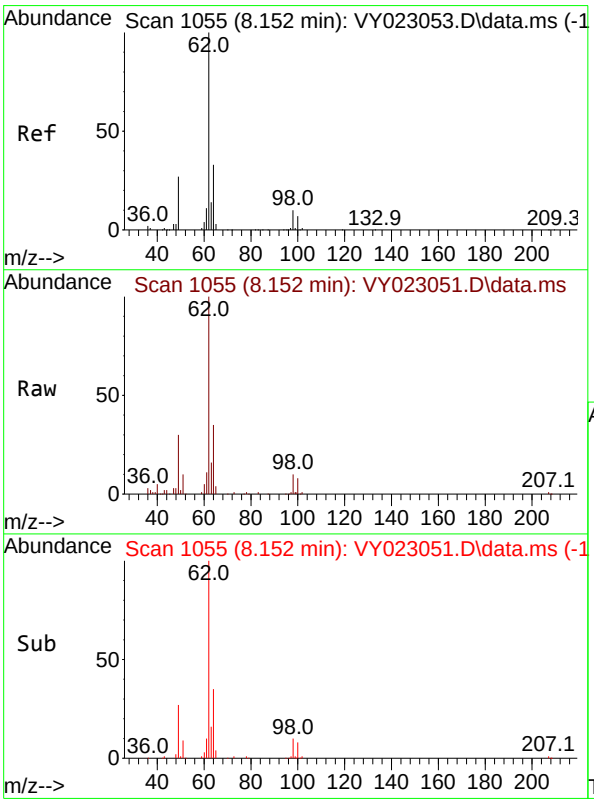
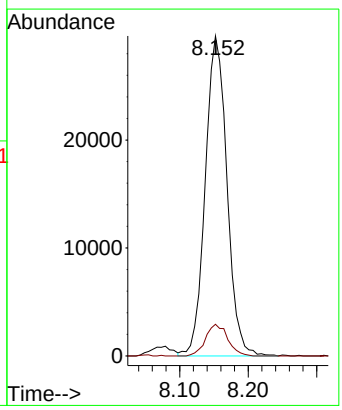
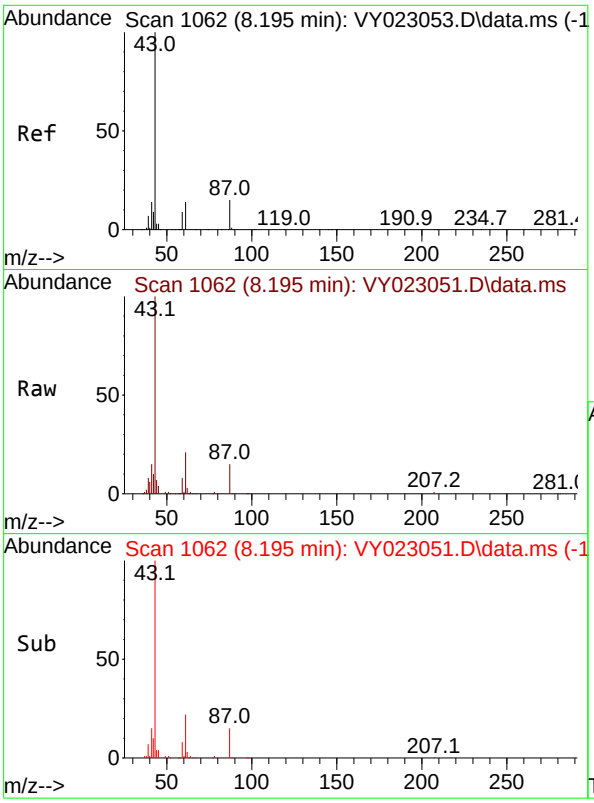


#42
1,2-Dichloroethane
Concen: 10.376 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 65350

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6





#43
Isopropyl Acetate
Concen: 10.144 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 6766

Ion	Ratio	Lower	Upper
43	100		
61	20.8	16.4	24.6
87	15.2	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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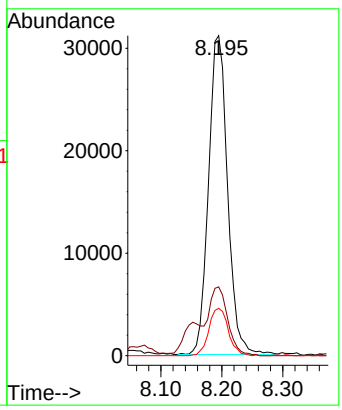
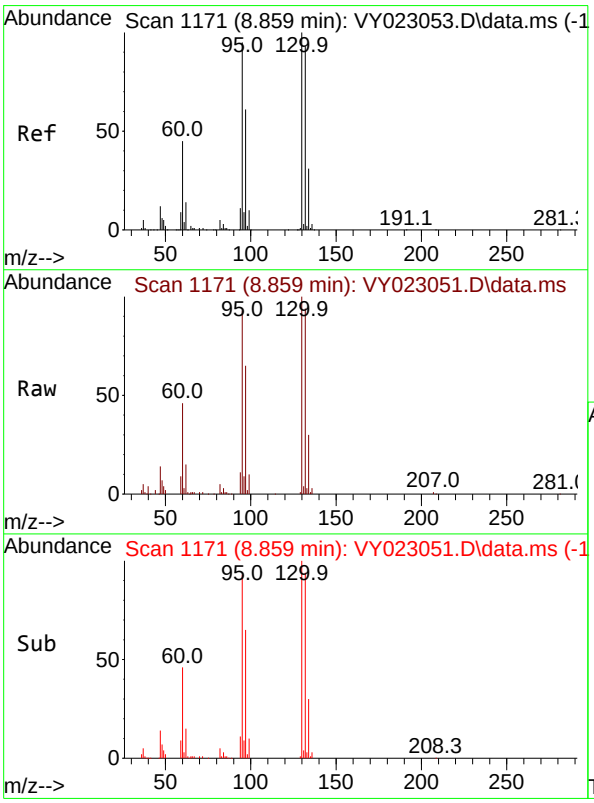
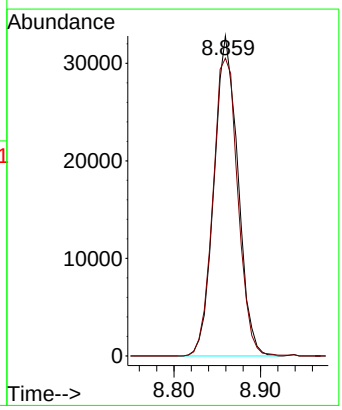


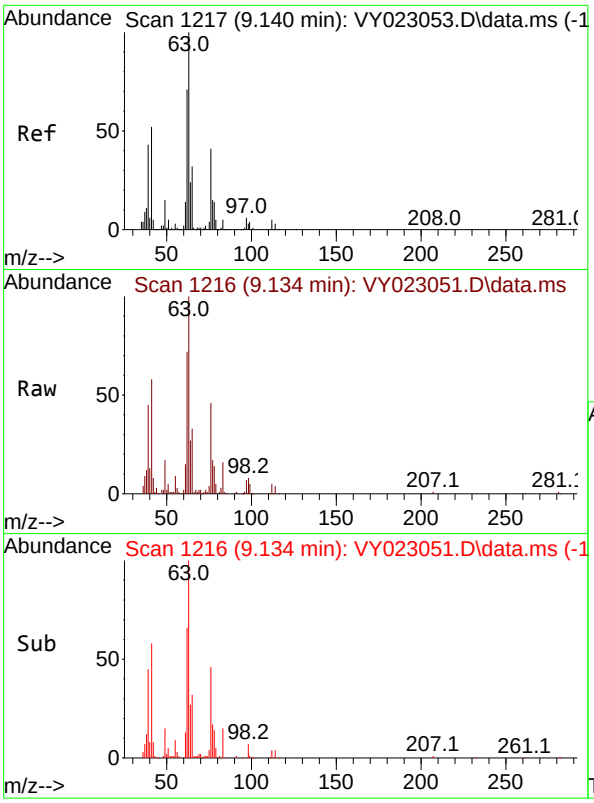


#44
Trichloroethene
Concen: 10.017 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:130 Resp: 62689

Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	190.2





#45
1,2-Dichloropropane
Concen: 10.179 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 5672

Ion	Ratio	Lower	Upper
63	100		
65	33.1	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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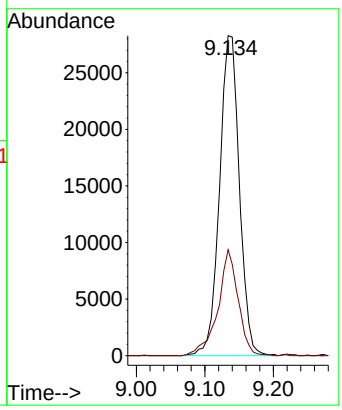
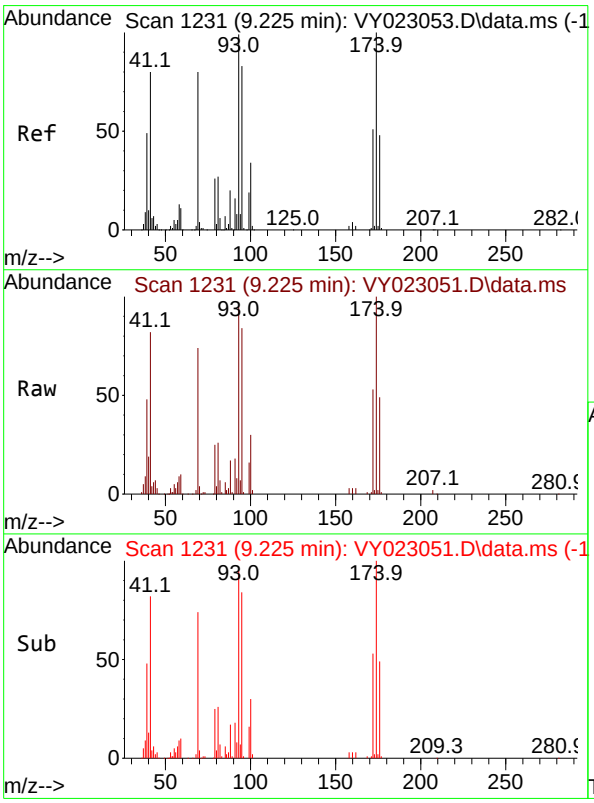
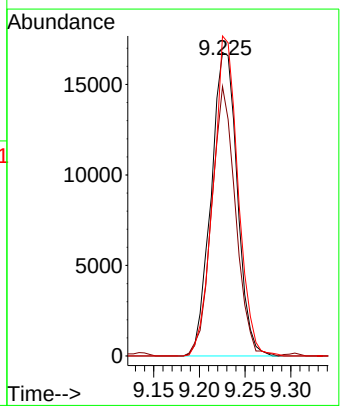


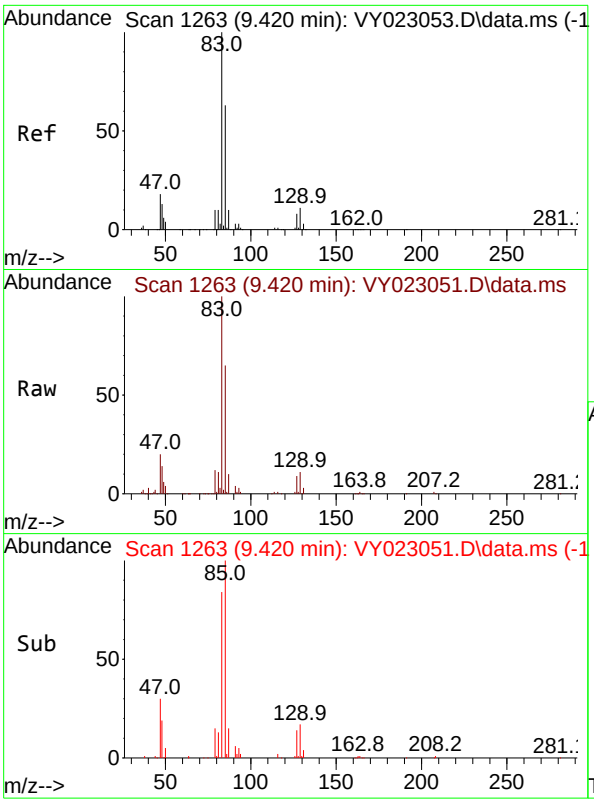


#46
Dibromomethane
Concen: 10.462 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 93 Resp: 33460

Ion	Ratio	Lower	Upper
93	100		
95	80.9	66.5	99.7
174	100.0	81.8	122.8

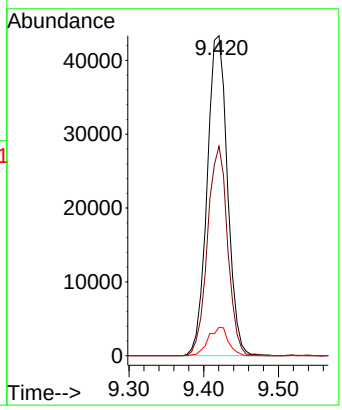




#47
Bromodichloromethane
Concen: 9.959 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 8195

Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.2	75.4
127	8.8	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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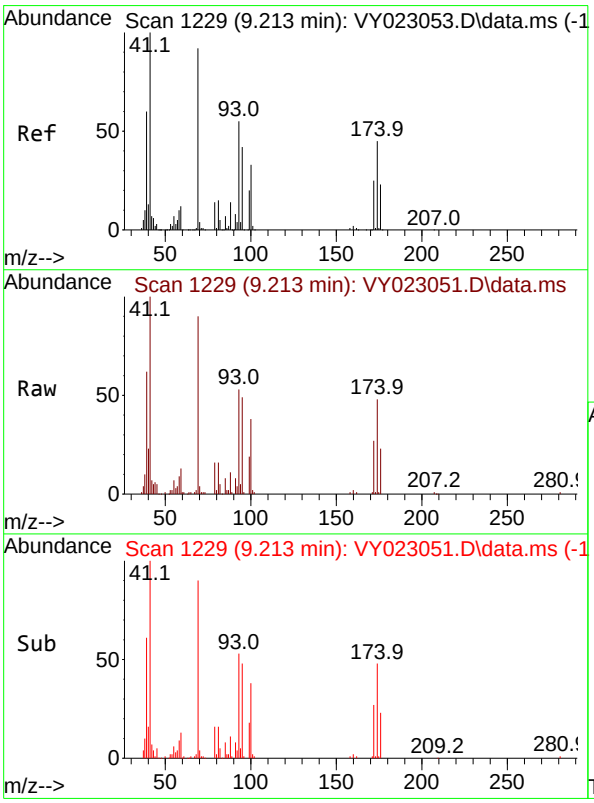
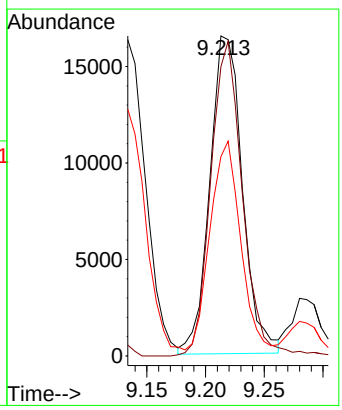
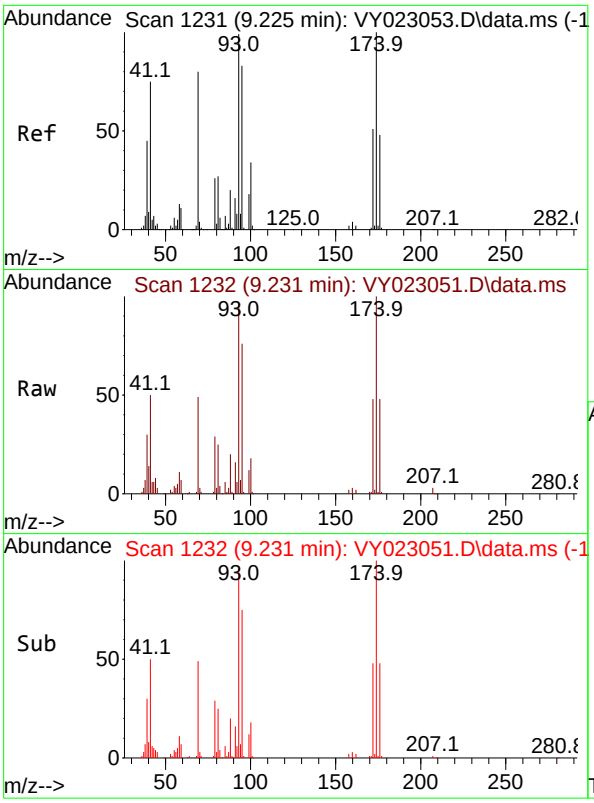


#48
Methyl methacrylate
Concen: 9.978 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 31851

Ion	Ratio	Lower	Upper
41	100		
69	96.0	73.2	109.8
39	60.9	47.0	70.4

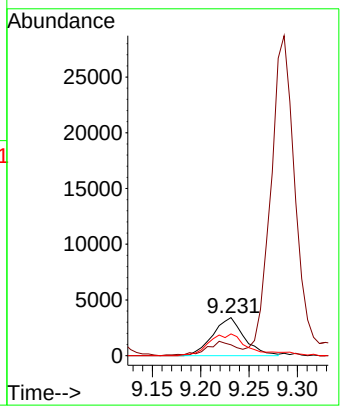




#49
1,4-Dioxane
Concen: 205.471 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 88 Resp: 770

Ion	Ratio	Lower	Upper
88	100		
43	35.3	24.3	36.5
58	73.3	55.4	83.0



Instrument :
MSVOA_Y
ClientSampleId :
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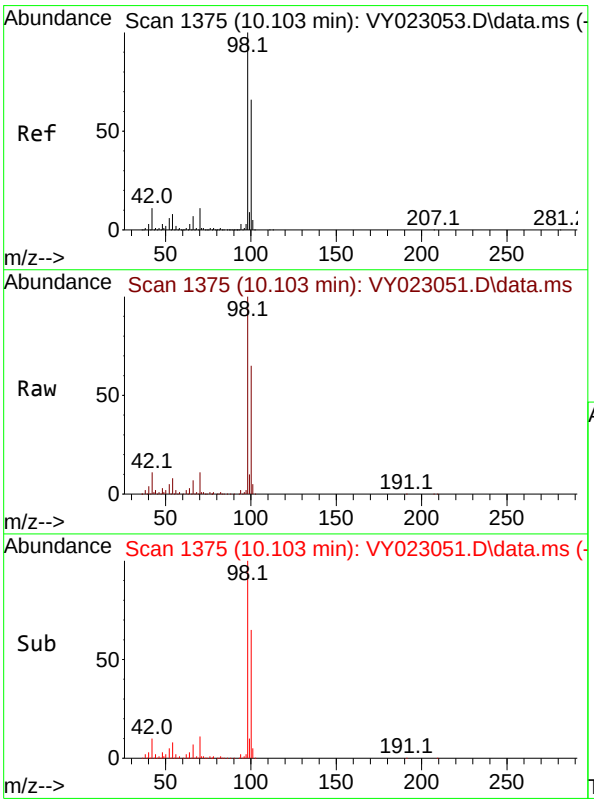
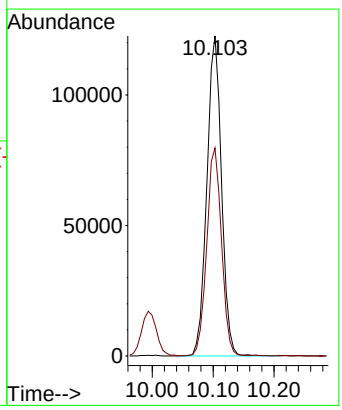
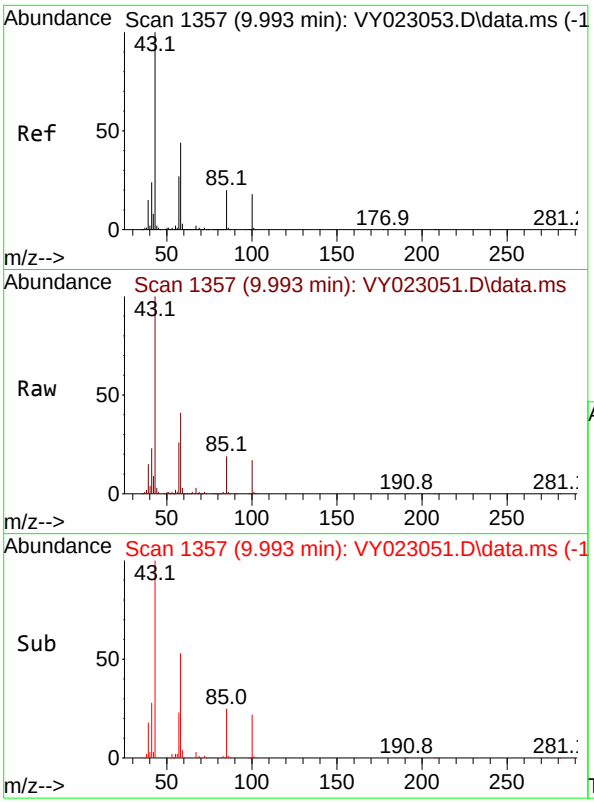


#50
Toluene-d8
Concen: 9.903 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 98 Resp: 204532

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

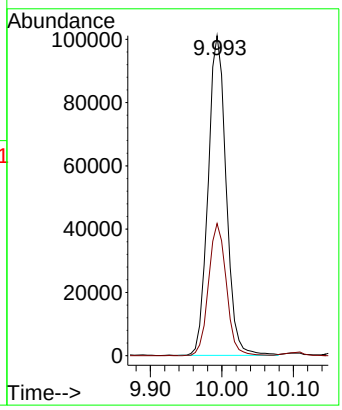




#51
4-Methyl-2-Pentanone
Concen: 51.484 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 17715

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.5	50.3



Instrument :
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ClientSampleId :
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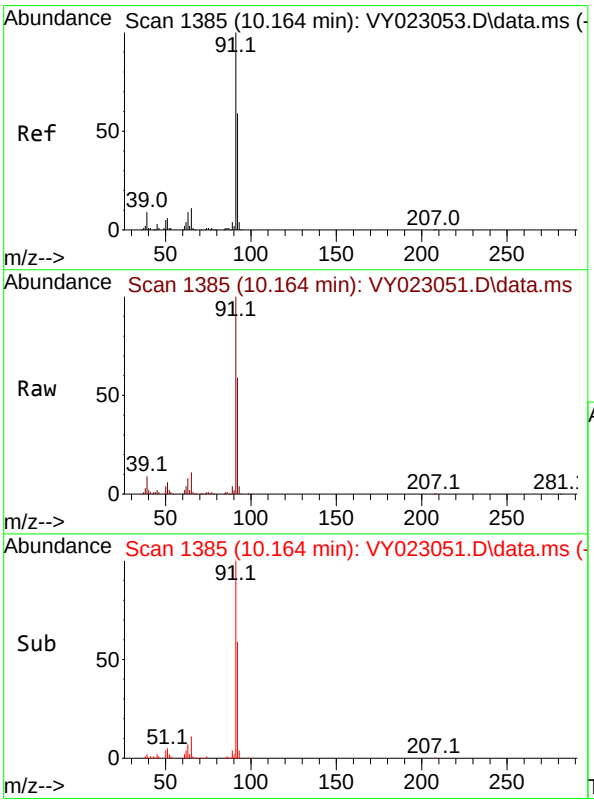
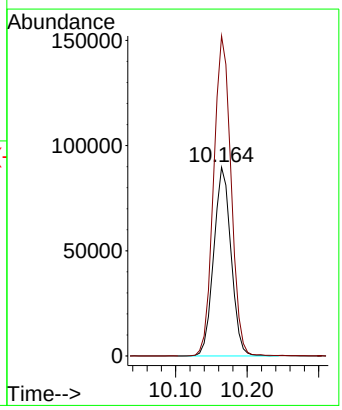
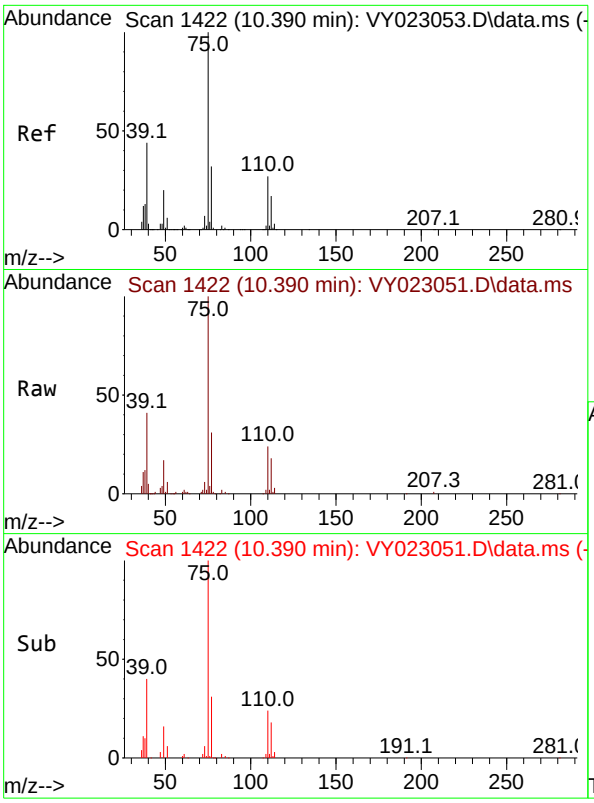


#52
Toluene
Concen: 9.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 92 Resp: 150422

Ion	Ratio	Lower	Upper
92	100		
91	171.3	136.4	204.6

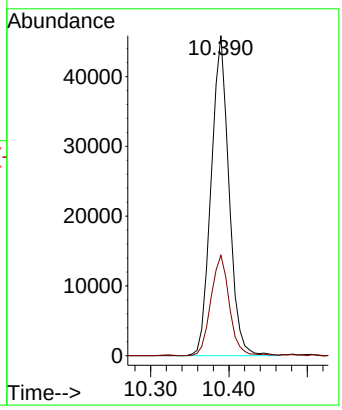




#53
t-1,3-Dichloropropene
Concen: 9.730 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 7250

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
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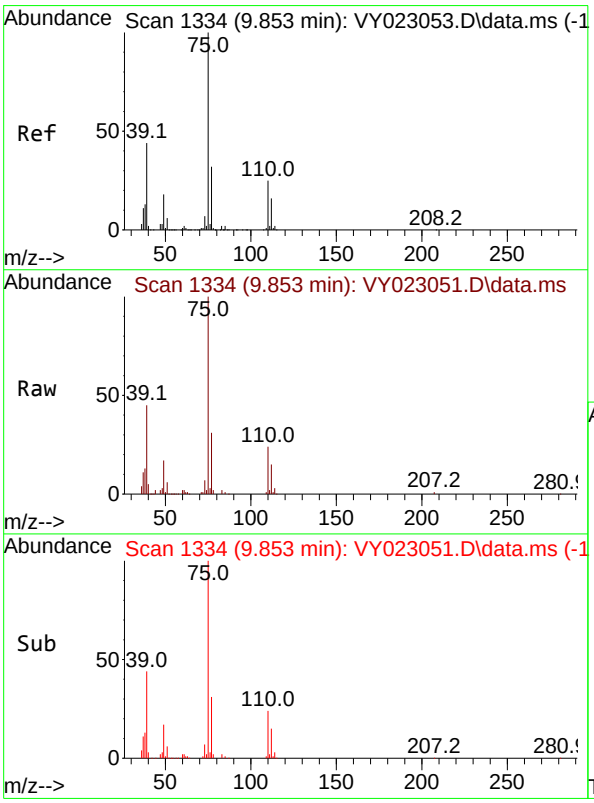
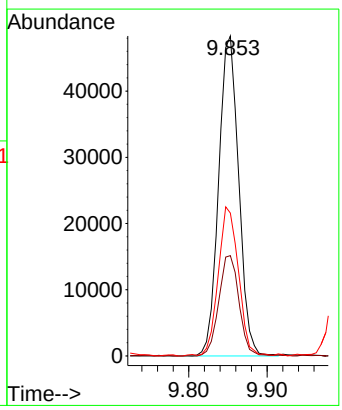
Supervised By :Semsettin Yesilyurt 08/14/2025

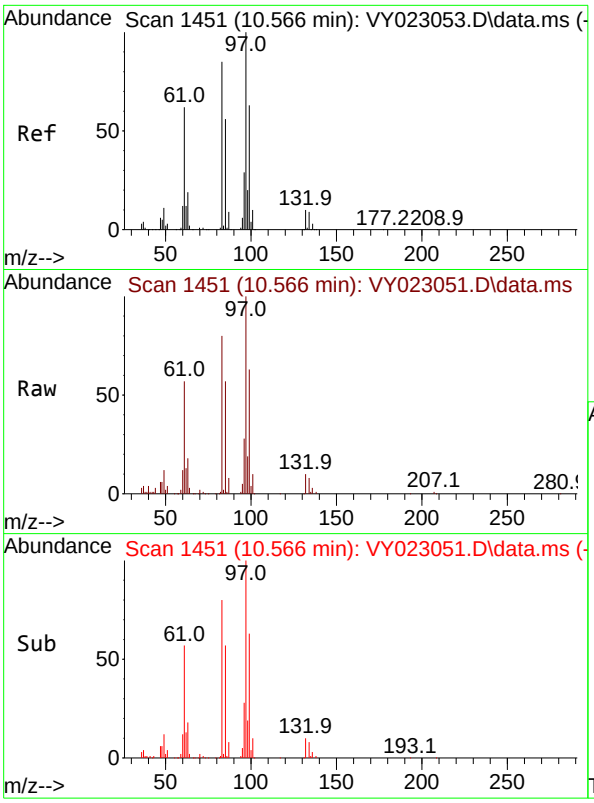


#54
cis-1,3-Dichloropropene
Concen: 9.753 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 85945

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	44.6	35.6	53.4

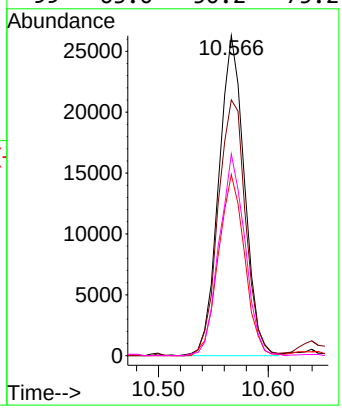




#55
1,1,2-Trichloroethane
Concen: 9.981 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 97 Resp: 4271

Ion	Ratio	Lower	Upper
97	100		
83	79.9	67.7	101.5
85	56.6	44.5	66.7
99	63.0	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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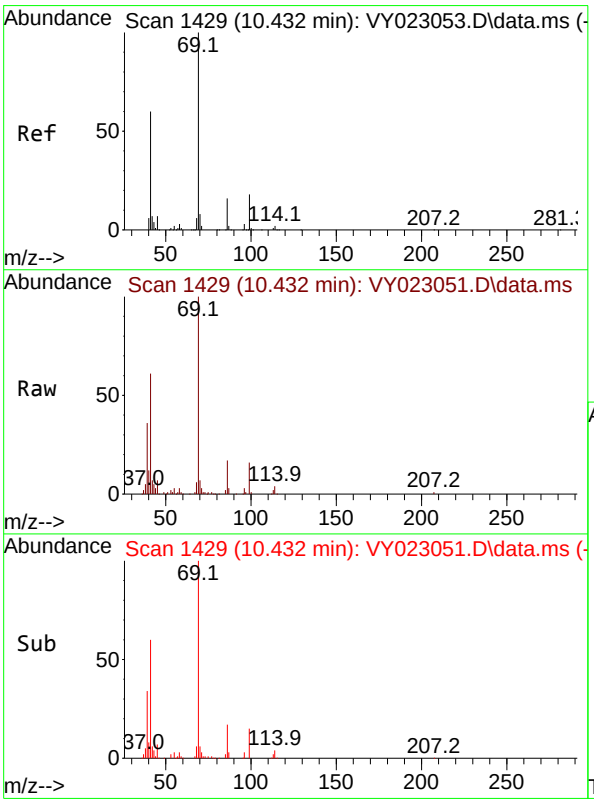
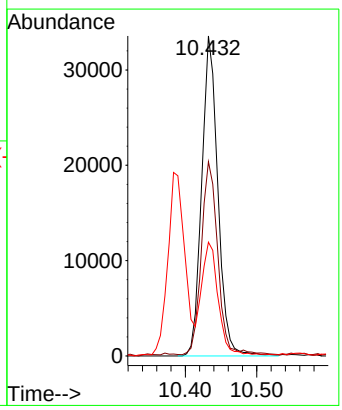
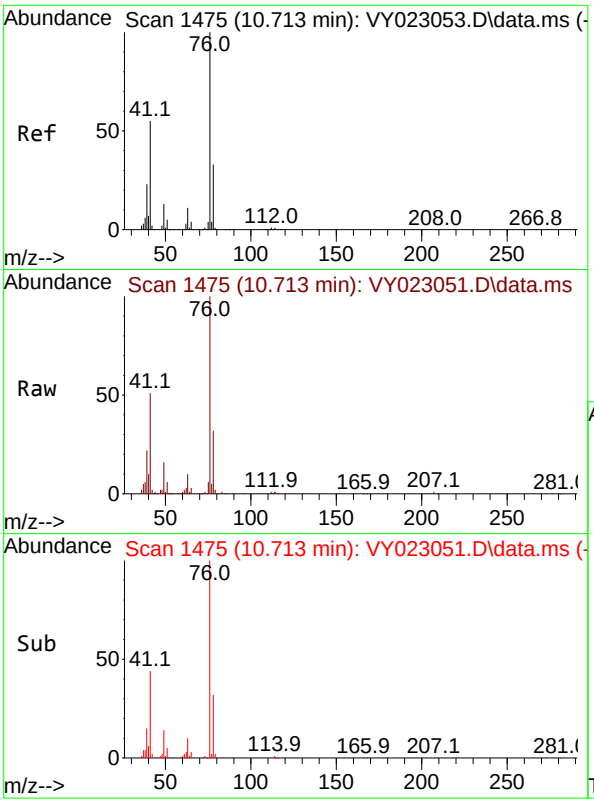


#56
Ethyl methacrylate
Concen: 9.632 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 69 Resp: 52746

Ion	Ratio	Lower	Upper
69	100		
41	61.0	48.6	72.8
39	35.9	27.0	40.4





#57
1,3-Dichloropropane
Concen: 10.256 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 76 Resp: 7443

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
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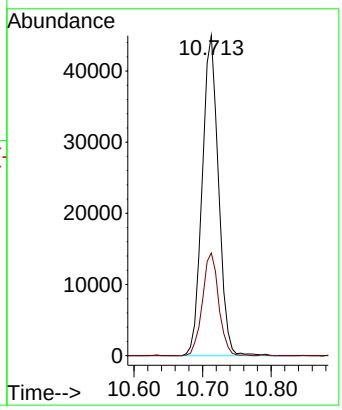
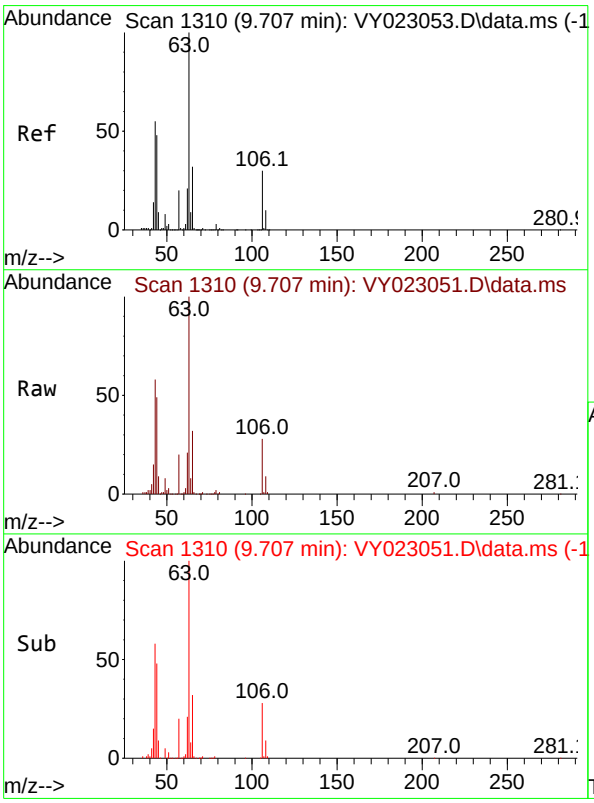
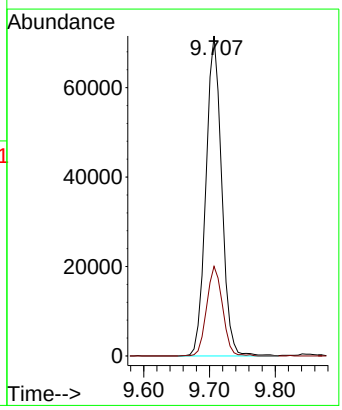


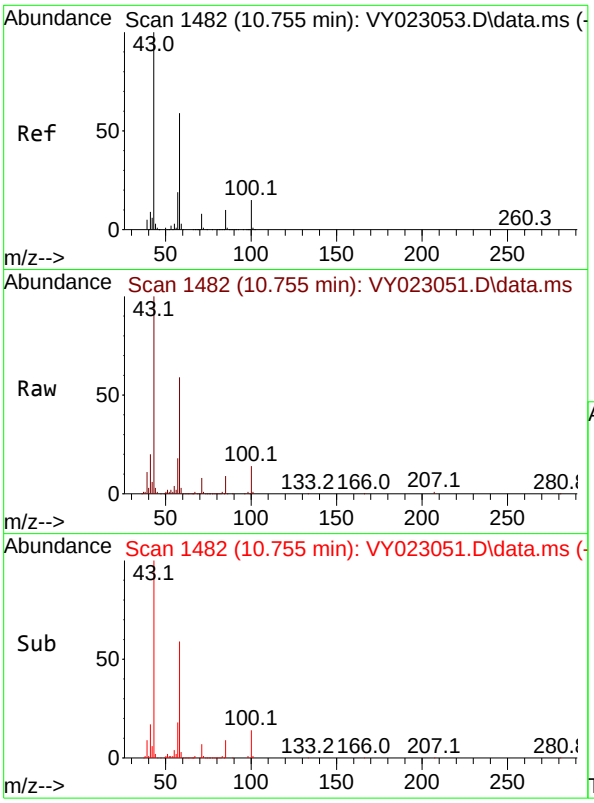


#58
2-Chloroethyl Vinyl ether
Concen: 46.232 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 119417

Ion	Ratio	Lower	Upper
63	100		
106	28.2	23.2	34.8

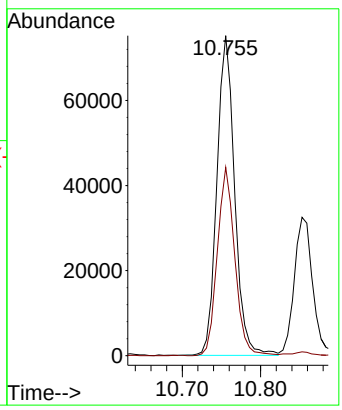




#59
2-Hexanone
Concen: 50.553 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 11845

Ion	Ratio	Lower	Upper
43	100		
58	58.3	29.5	88.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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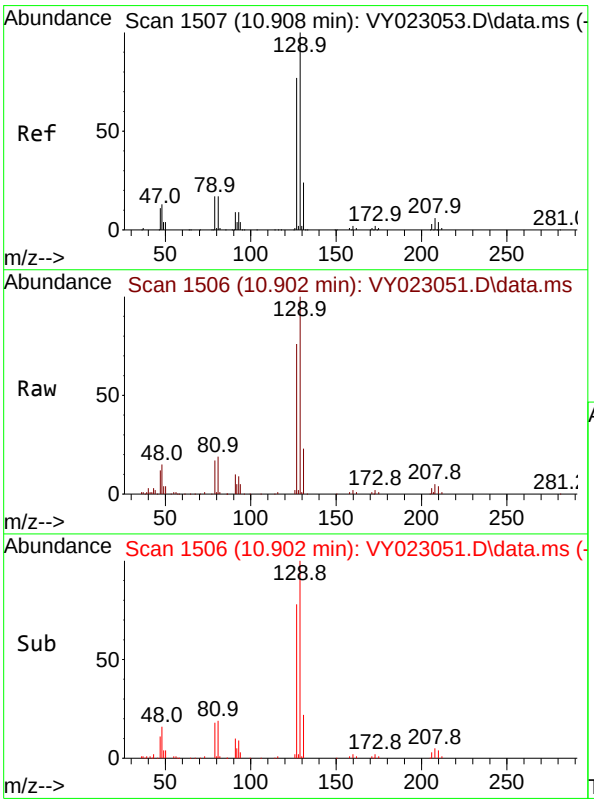
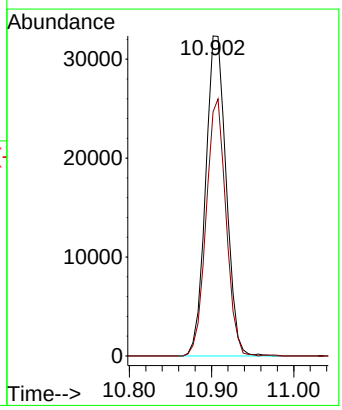
Supervised By :Semsettin Yesilyurt 08/14/2025

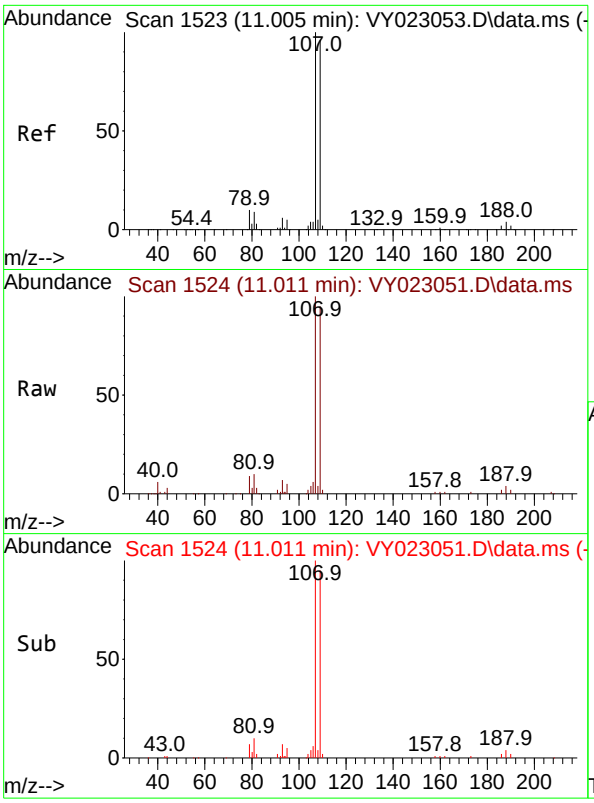


#60
Dibromochloromethane
Concen: 9.925 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:129 Resp: 56045

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5





#61
1,2-Dibromoethane
Concen: 10.196 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:107 Resp: 4100

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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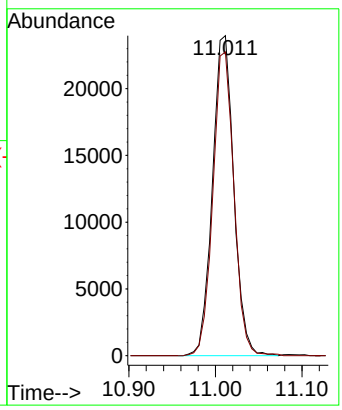
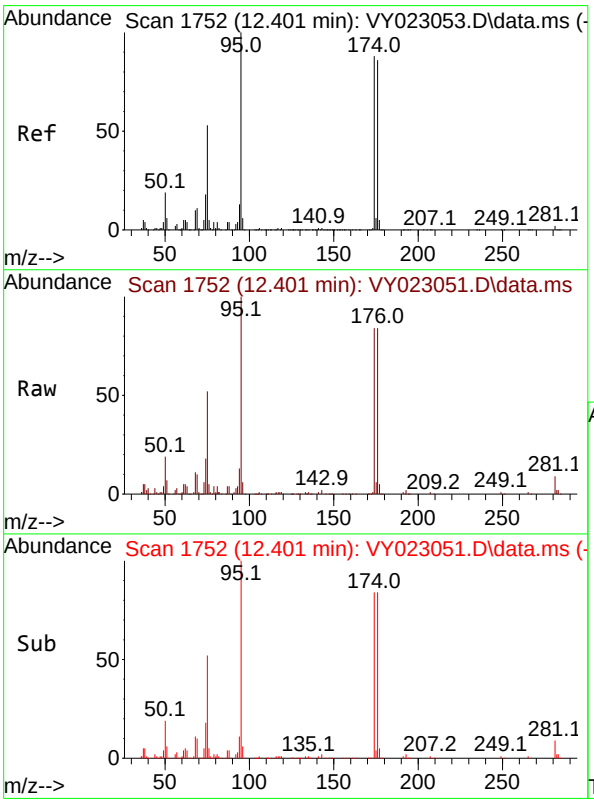
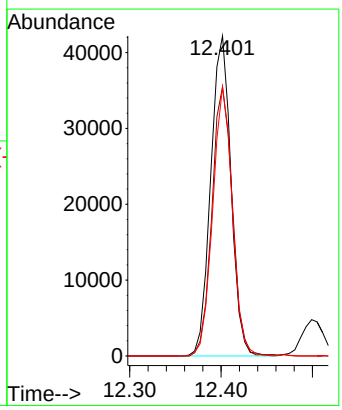


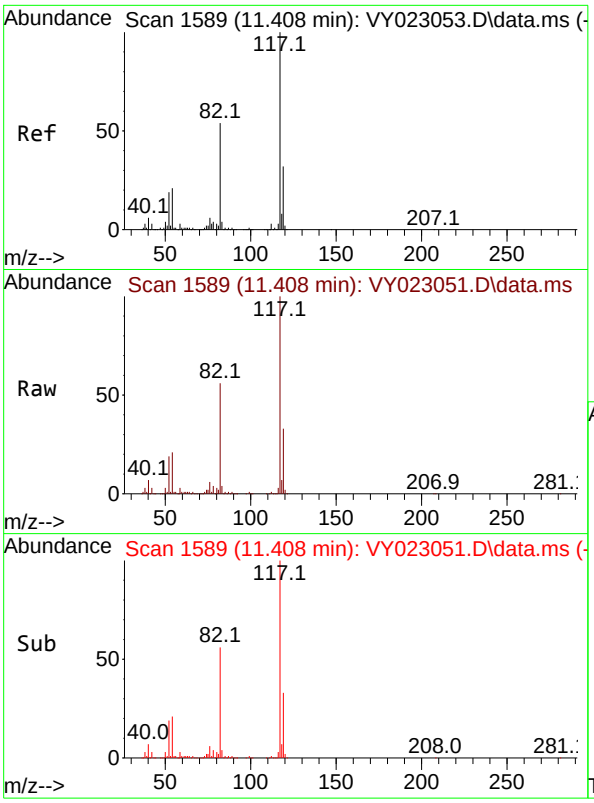


#62
4-Bromofluorobenzene
Concen: 9.775 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 95 Resp: 64927

Ion	Ratio	Lower	Upper
95	100		
174	84.8	0.0	171.6
176	81.7	0.0	167.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 76132

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.8	25.6	38.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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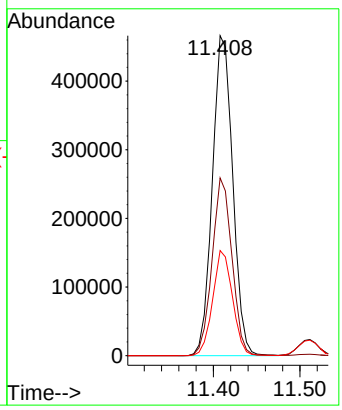
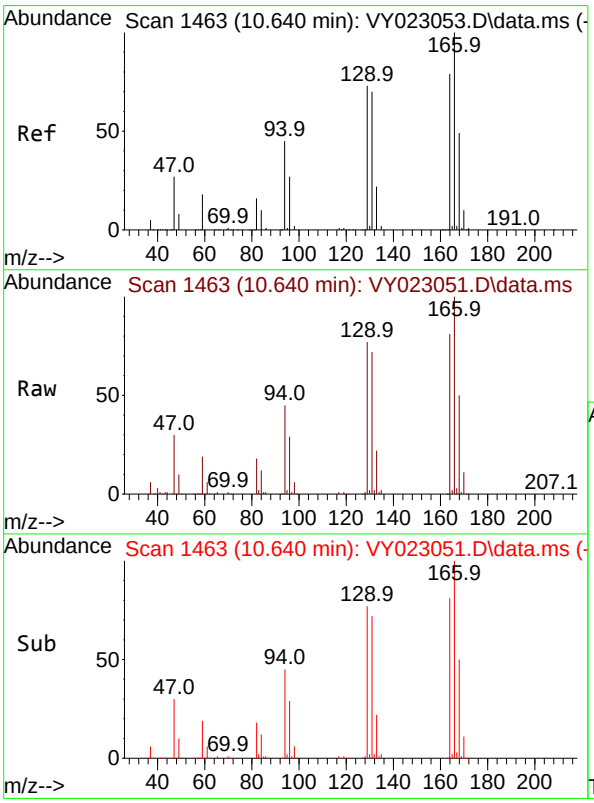
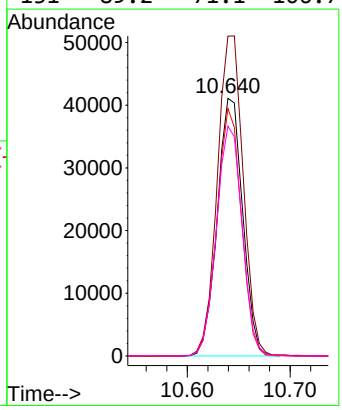


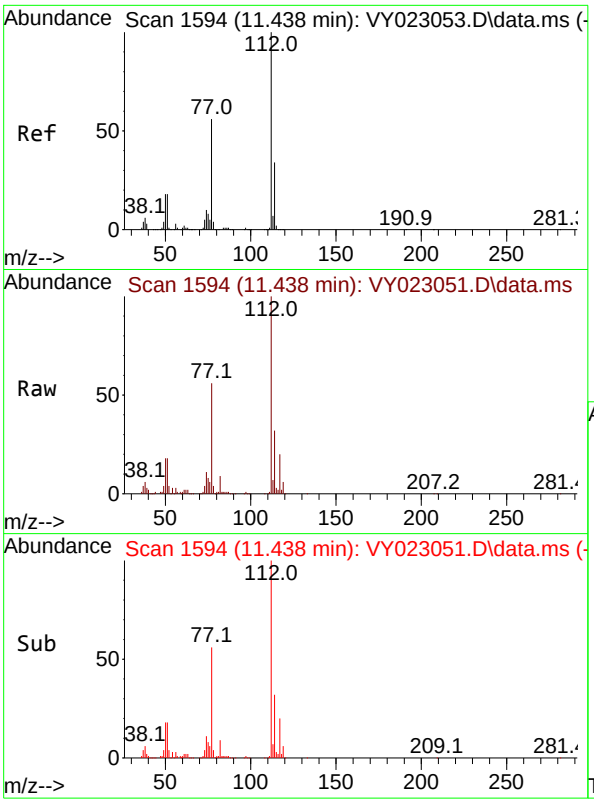


#64
Tetrachloroethene
Concen: 10.371 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:164 Resp: 70502

Ion	Ratio	Lower	Upper
164	100		
166	124.2	101.1	151.7
129	96.0	74.0	111.0
131	89.2	71.1	106.7





#65
Chlorobenzene
Concen: 9.925 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:112 Resp: 16298

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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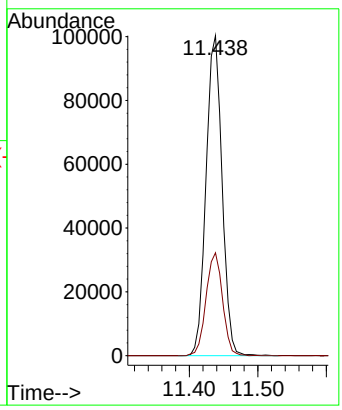
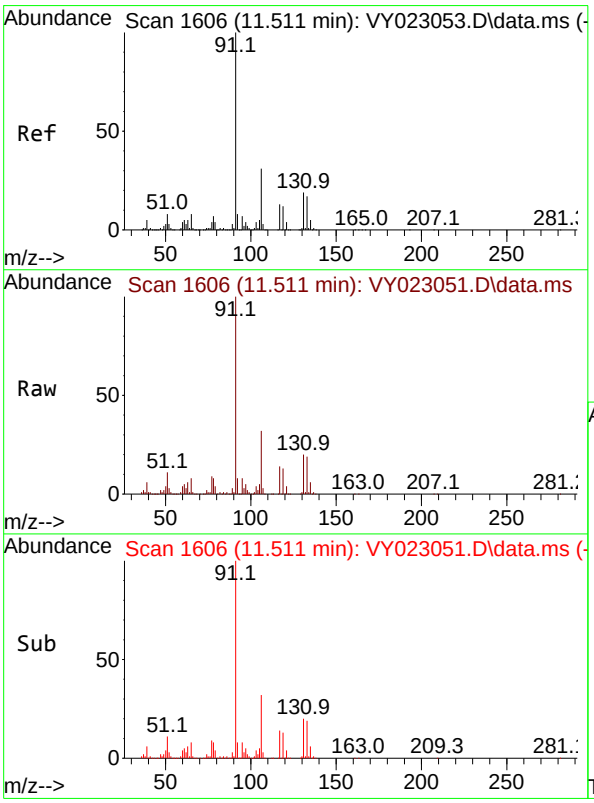
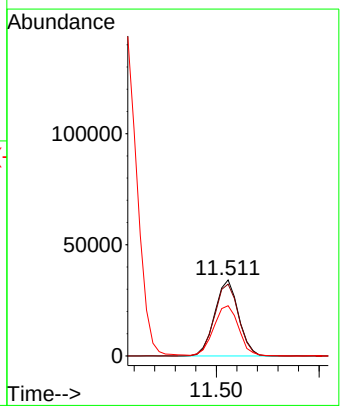


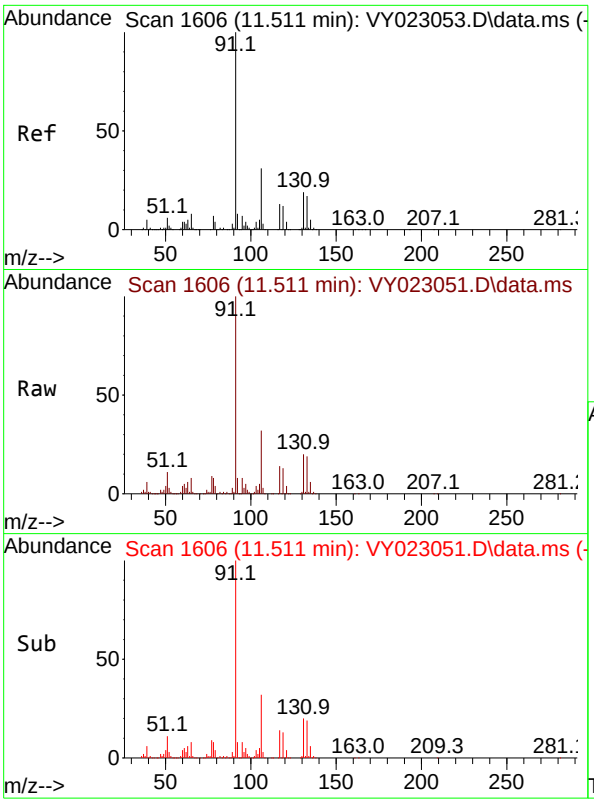


#66
1,1,1,2-Tetrachloroethane
Concen: 9.842 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:131 Resp: 54856

Ion	Ratio	Lower	Upper
131	100		
133	96.5	46.9	140.6
119	69.8	33.2	99.6





#67
Ethyl Benzene
Concen: 9.670 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 27328

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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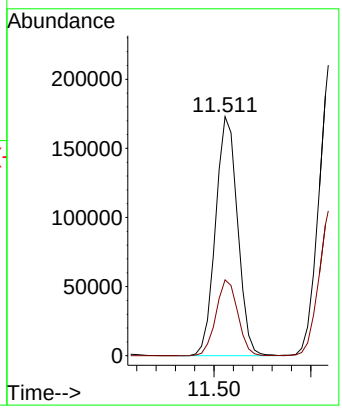
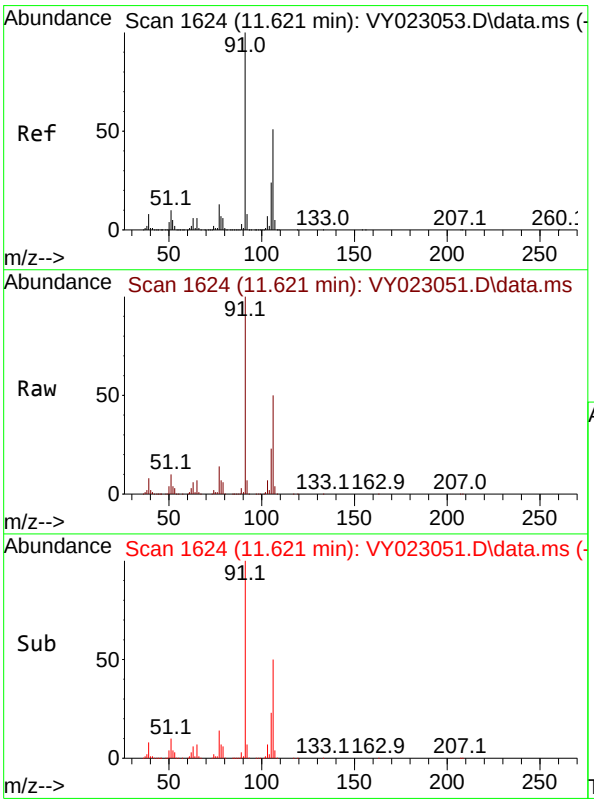
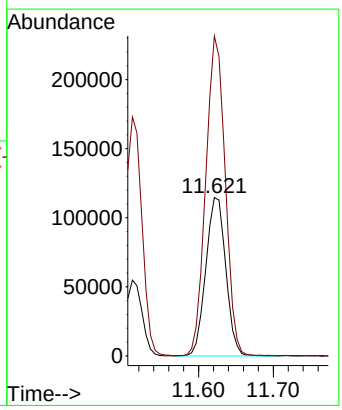


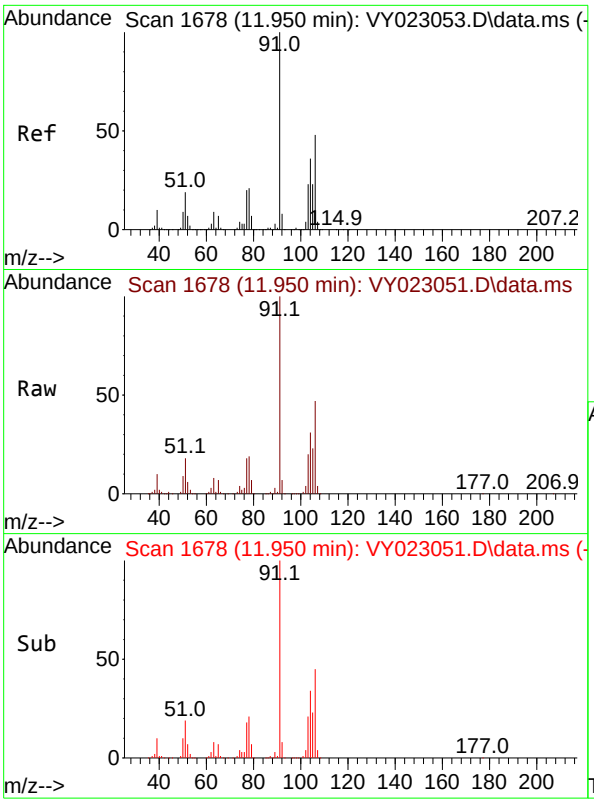


#68
m/p-Xylenes
Concen: 19.277 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 212766

Ion	Ratio	Lower	Upper
106	100		
91	196.5	158.6	238.0





#69
o-Xylene
Concen: 9.465 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 9784

Ion	Ratio	Lower	Upper
106	100		
91	210.2	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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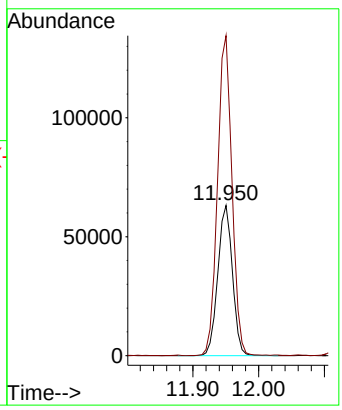
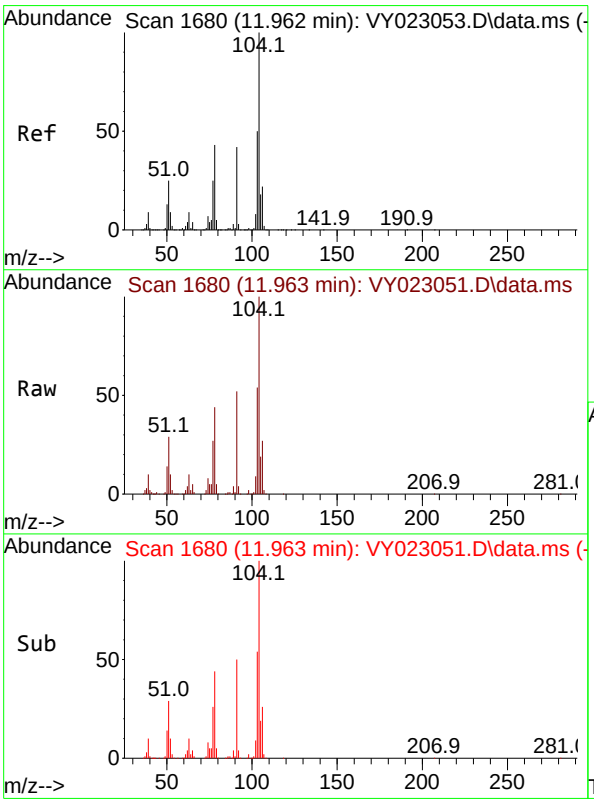
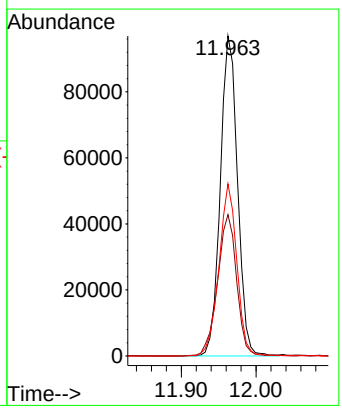


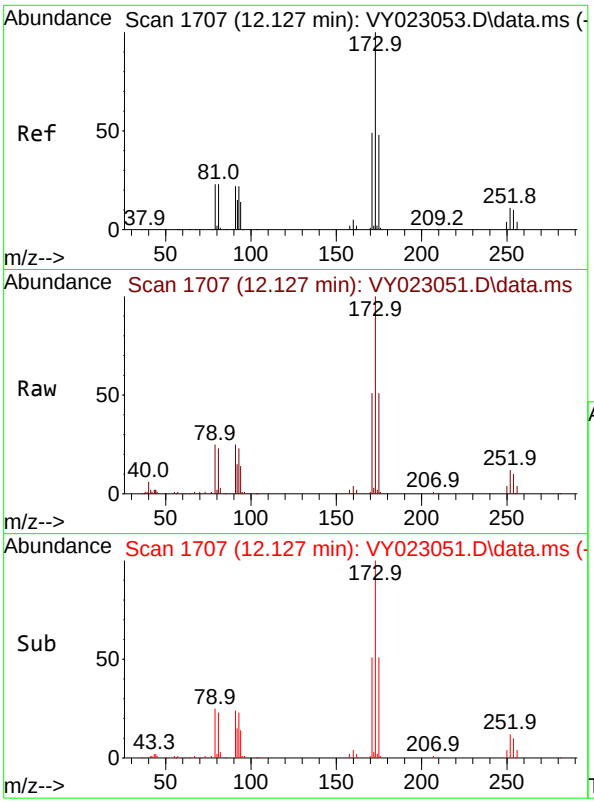


#70
Styrene
Concen: 9.216 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:104 Resp: 155809

Ion	Ratio	Lower	Upper
104	100		
78	48.8	38.5	57.7
103	55.6	43.7	65.5

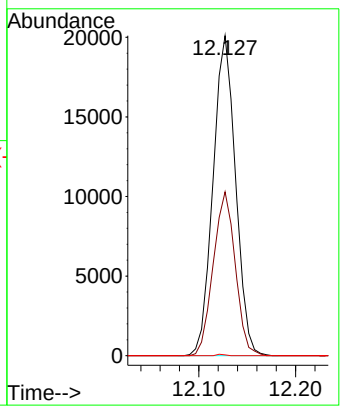




#71
Bromoform
Concen: 9.968 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:173 Resp: 3247

Ion	Ratio	Lower	Upper
173	100		
175	50.0	23.9	71.7
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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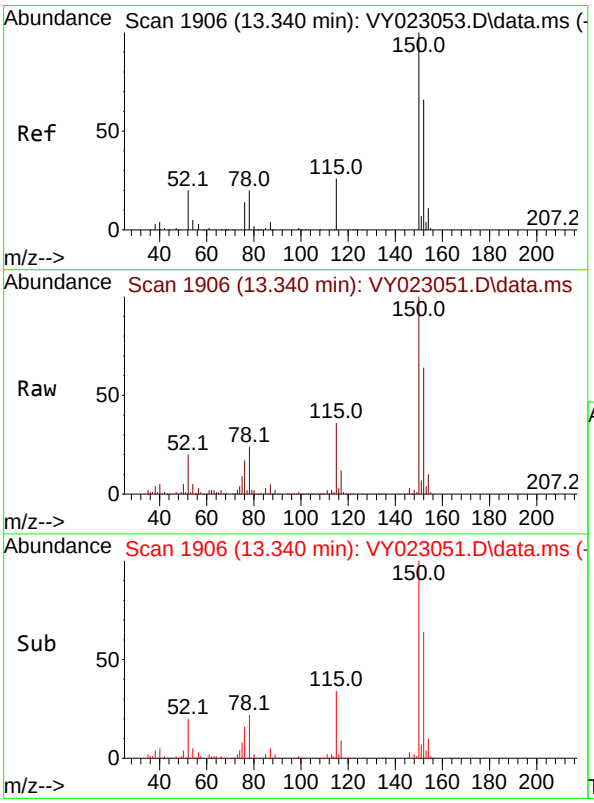
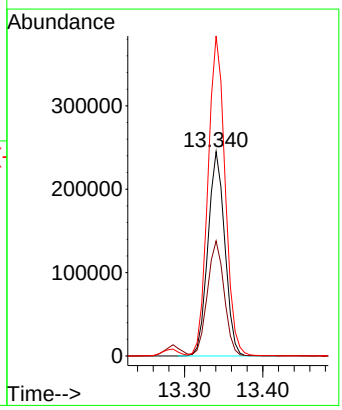
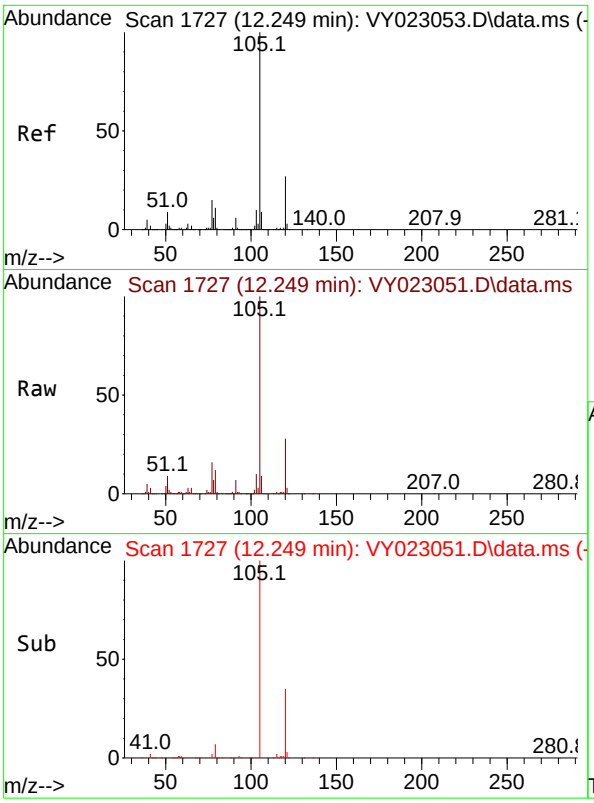


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:152 Resp: 365647

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.2	84.6
150	159.7	0.0	348.0

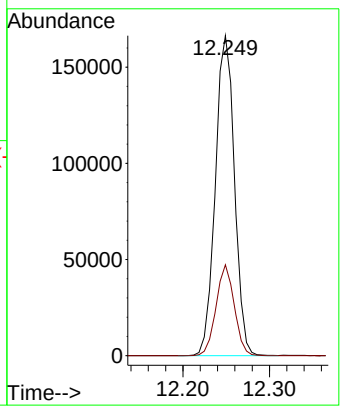




#73
Isopropylbenzene
Concen: 9.871 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 25474

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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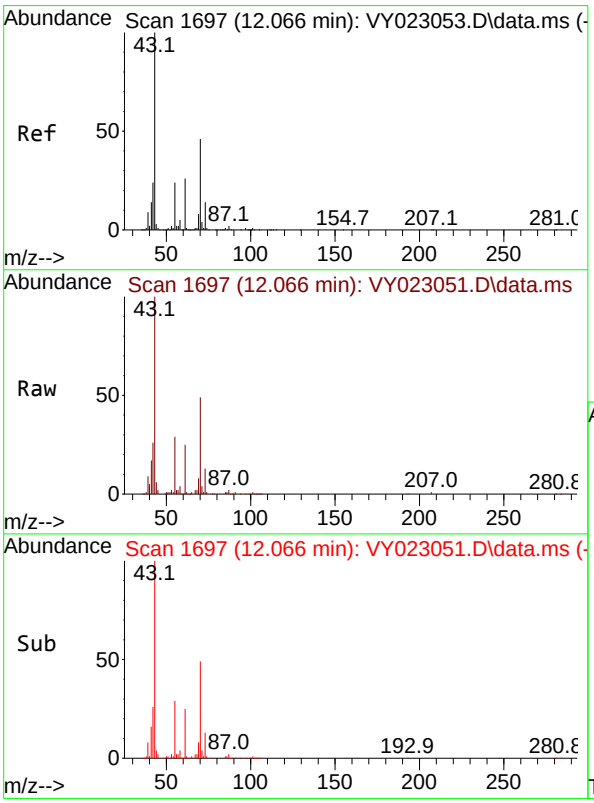
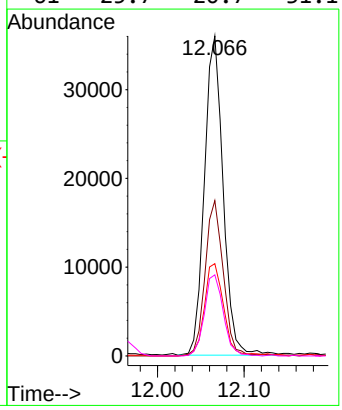
Supervised By :Semsettin Yesilyurt 08/14/2025

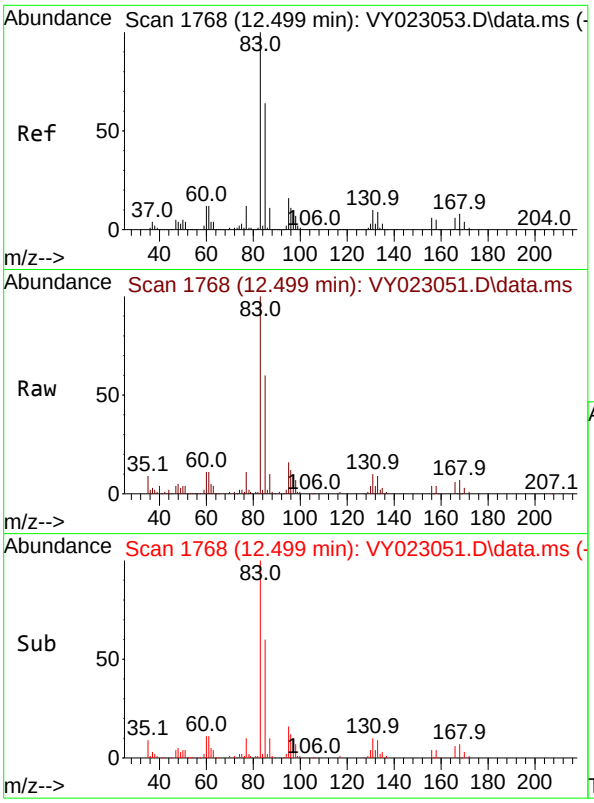


#74
N-amyl acetate
Concen: 9.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 53943

Ion	Ratio	Lower	Upper
43	100		
70	47.0	37.5	56.3
55	30.2	20.7	31.1
61	25.7	20.7	31.1

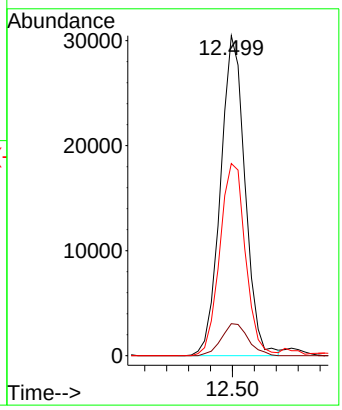




#75
1,1,2,2-Tetrachloroethane
Concen: 10.735 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 4730

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.1	15.3
85	62.9	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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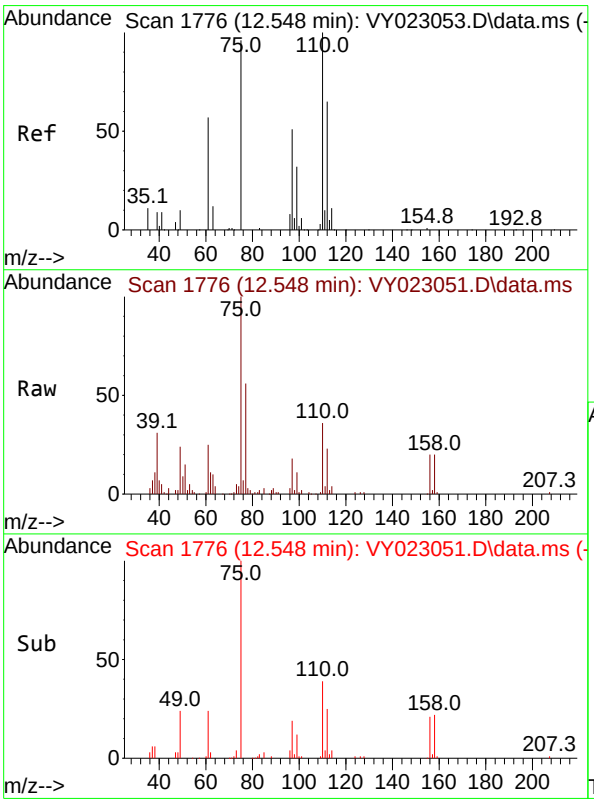
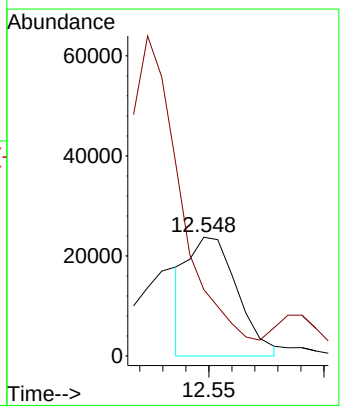
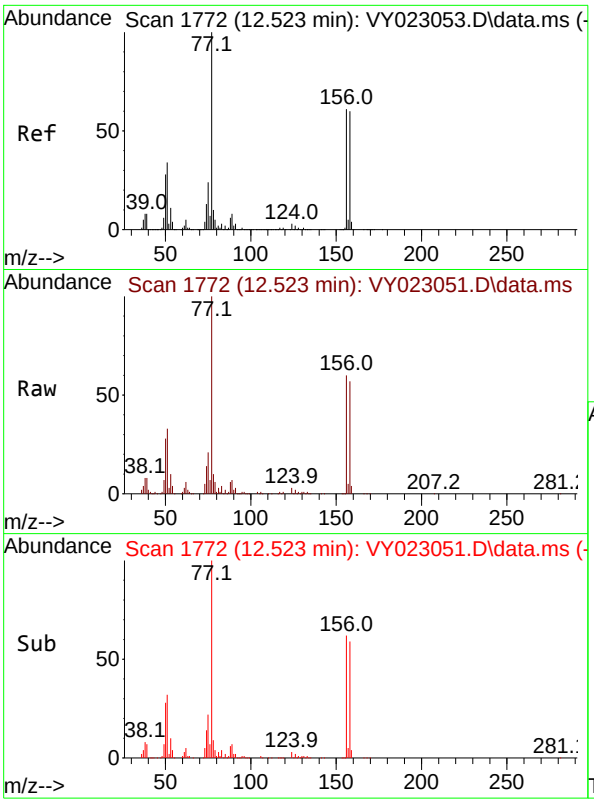


#76
1,2,3-Trichloropropane
Concen: 10.012 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 35353

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 9.864 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:156 Resp: 6072

Ion	Ratio	Lower	Upper
156	100		
77	184.8	88.1	264.4
158	97.2	48.0	144.0

Instrument :
MSVOA_Y
ClientSampleId :
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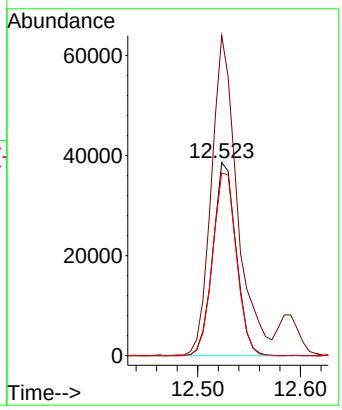
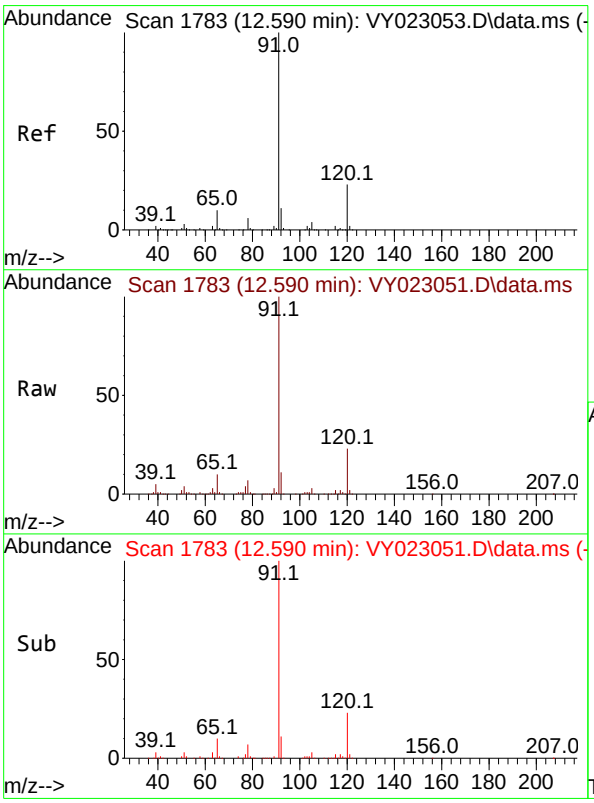
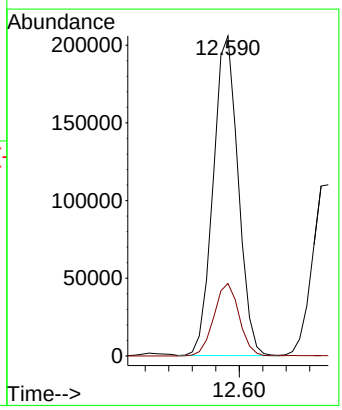


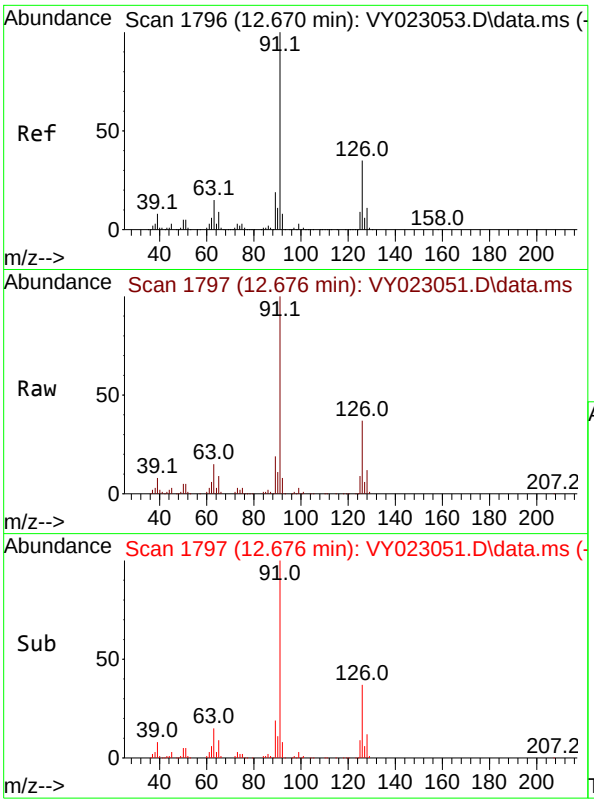


#78
n-propylbenzene
Concen: 9.876 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 303440

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

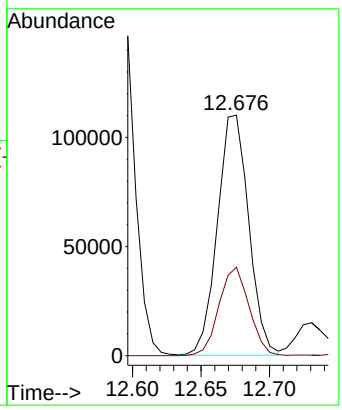




#79
2-Chlorotoluene
Concen: 9.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 17536

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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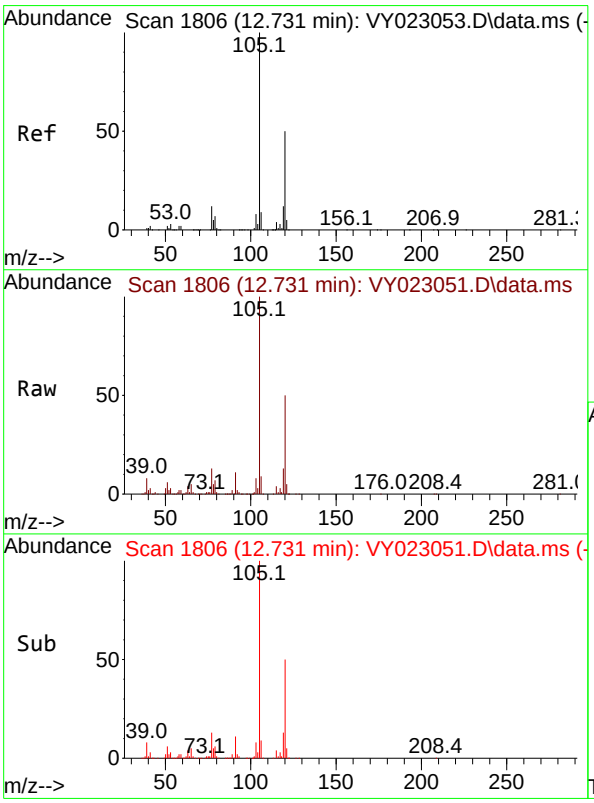
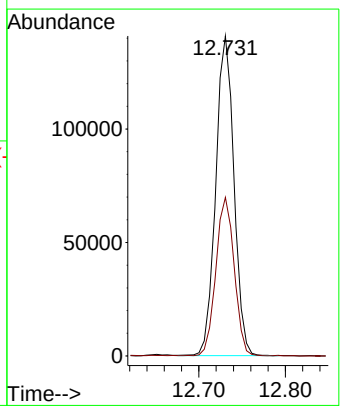
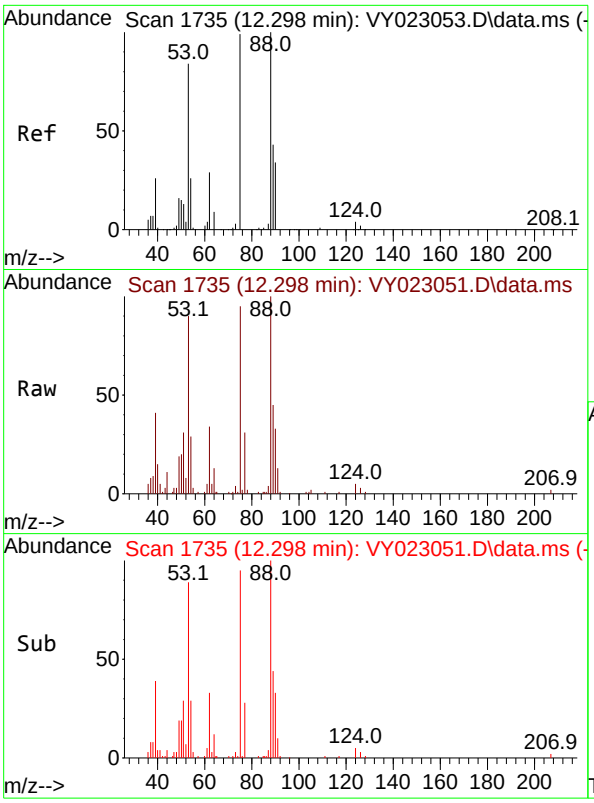


#80
1,3,5-Trimethylbenzene
Concen: 9.855 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 205544

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 10.780 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 1571

Ion	Ratio	Lower	Upper
75	100		
53	91.4	70.8	106.2
89	44.0	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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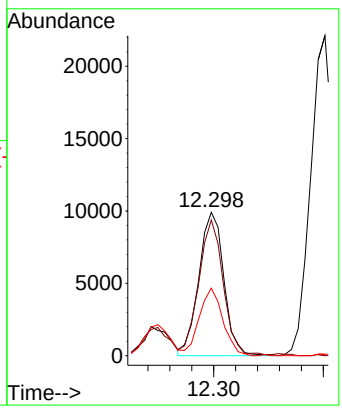
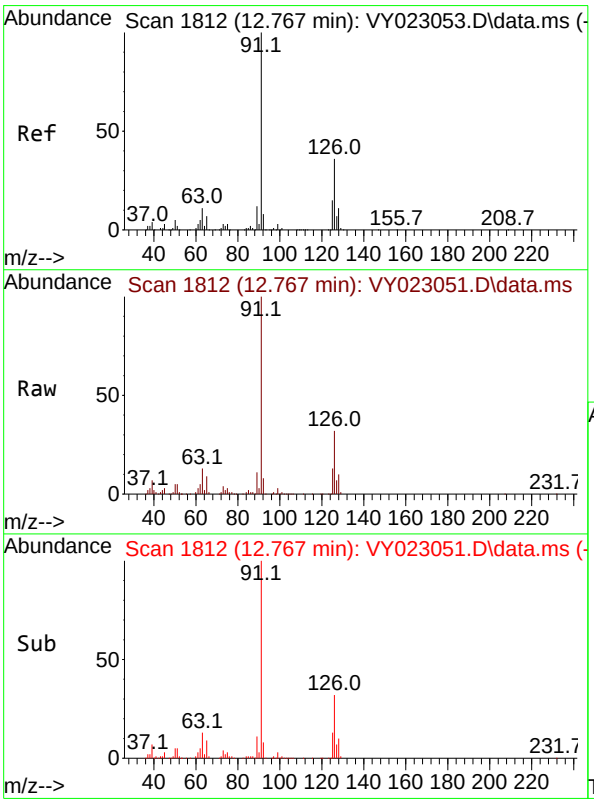
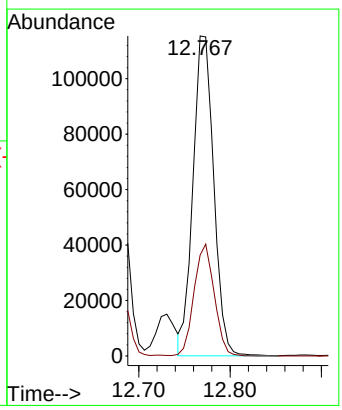


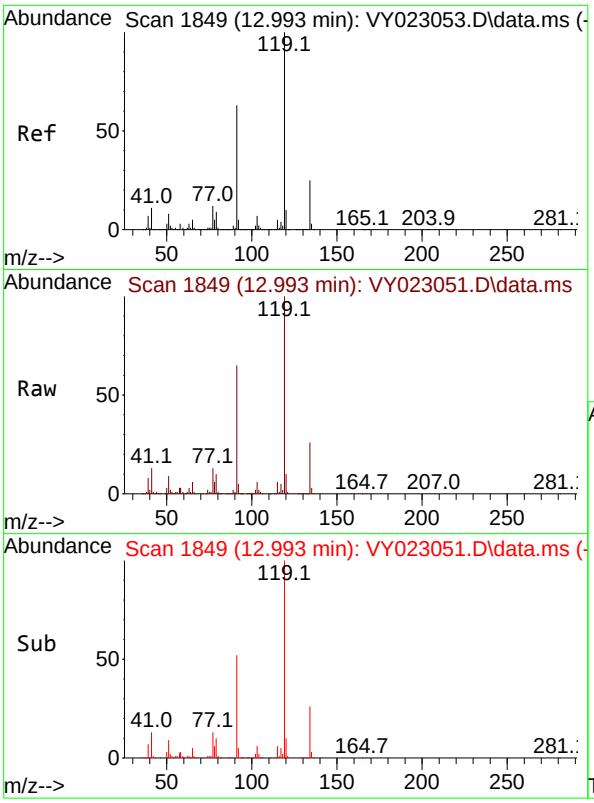


#82
4-Chlorotoluene
Concen: 9.956 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 181812

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0

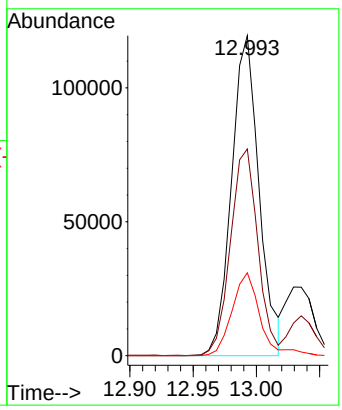




#83
tert-Butylbenzene
Concen: 9.630 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:119 Resp: 18140

Ion	Ratio	Lower	Upper
119	100		
91	63.9	31.6	94.8
134	26.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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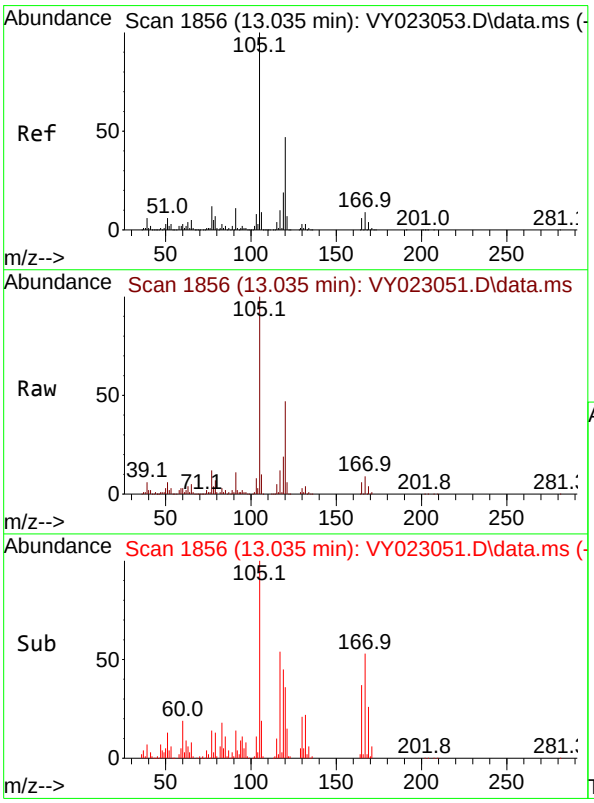
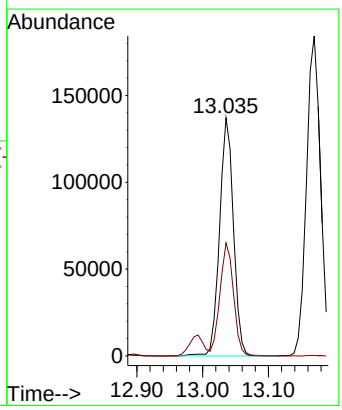
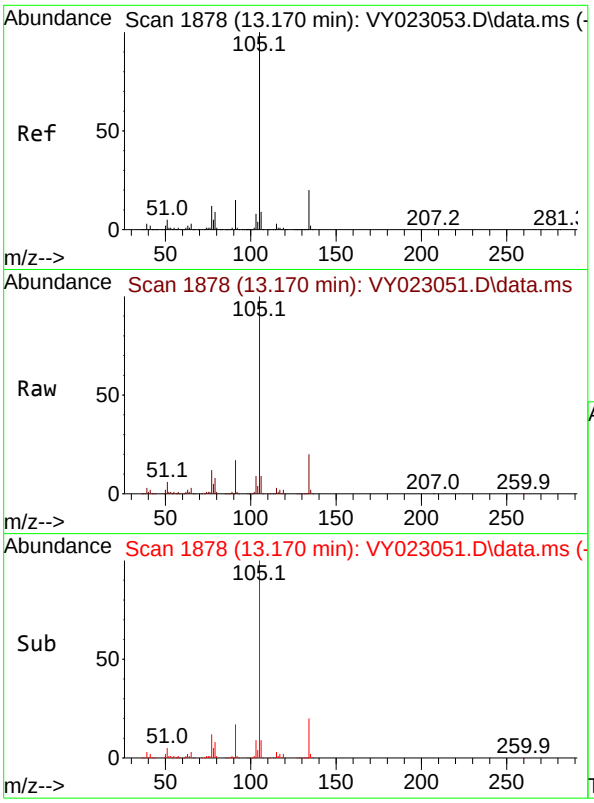


#84
1,2,4-Trimethylbenzene
Concen: 9.720 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 201812

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0

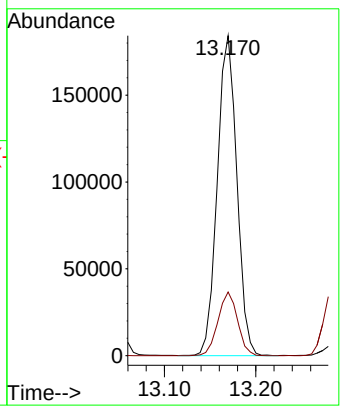




#85
sec-Butylbenzene
Concen: 9.908 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 27417

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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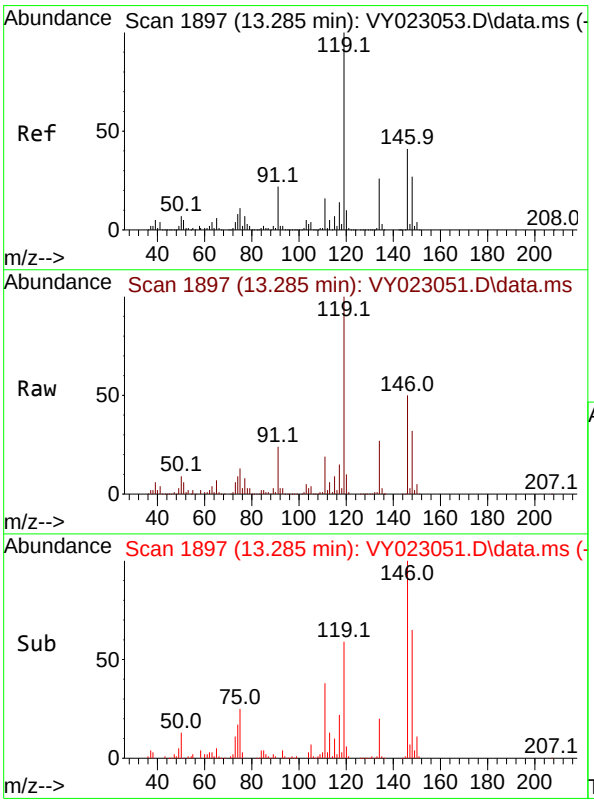
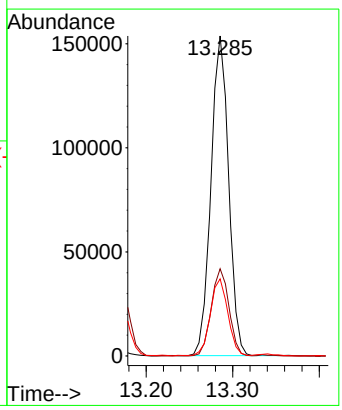
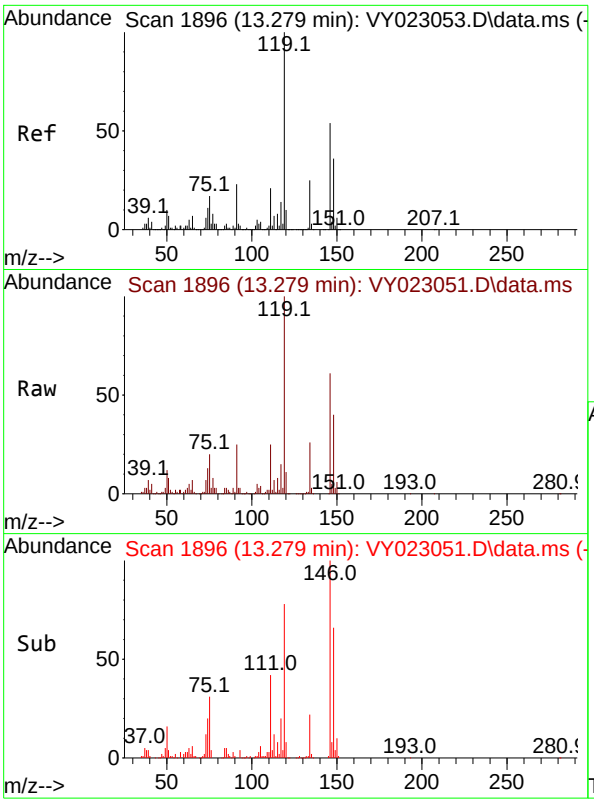


#86
p-Isopropyltoluene
Concen: 9.482 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:119 Resp: 217799

Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.2	39.6
91	23.9	11.3	33.8

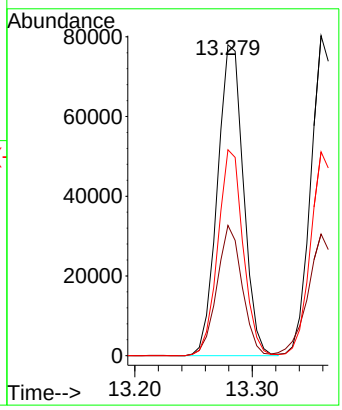




#87
1,3-Dichlorobenzene
Concen: 9.893 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 12010

Ion	Ratio	Lower	Upper
146	100		
111	40.6	19.6	58.7
148	64.3	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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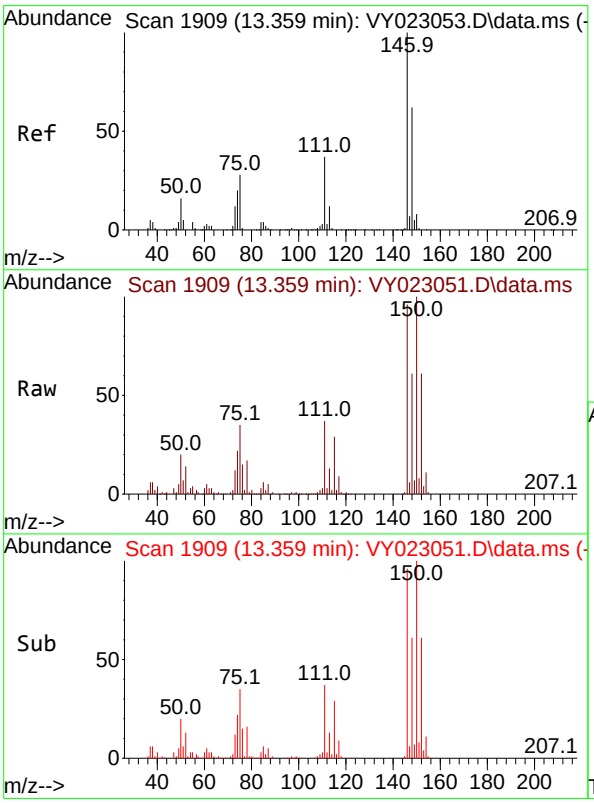
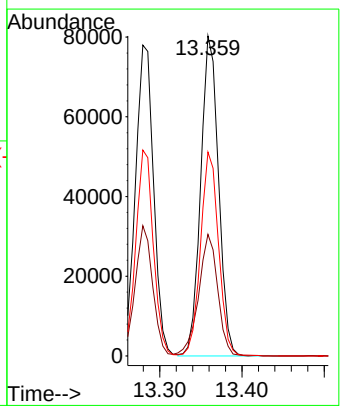
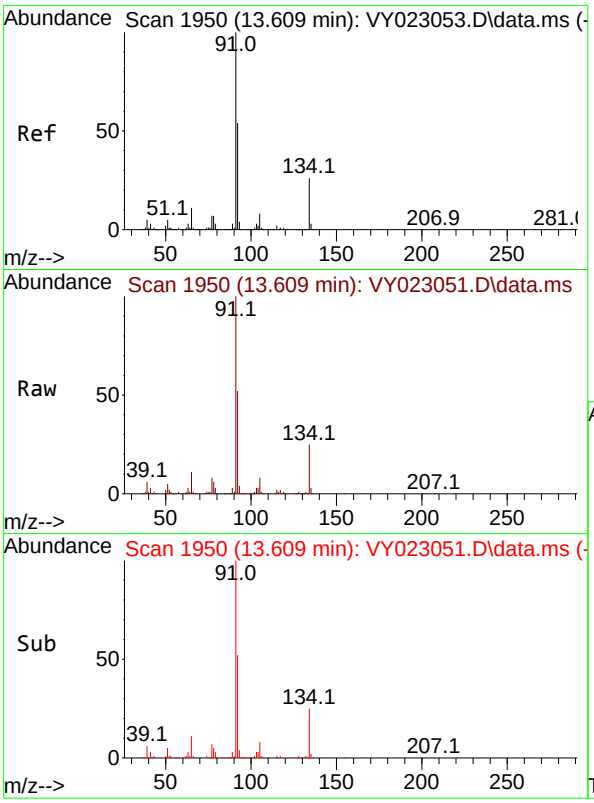


#88
1,4-Dichlorobenzene
Concen: 10.060 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 121160

Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.1	57.1
148	64.3	31.6	94.7

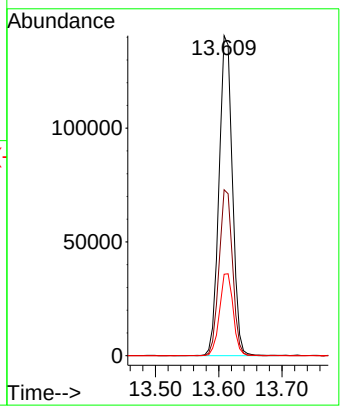




#89
n-Butylbenzene
Concen: 9.737 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 20542

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	26.1	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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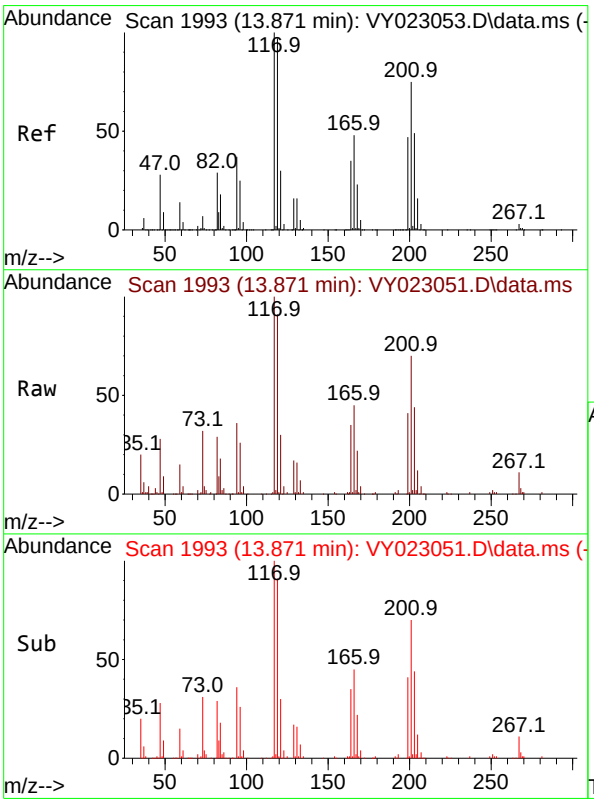
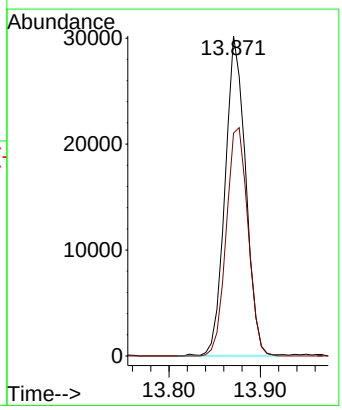
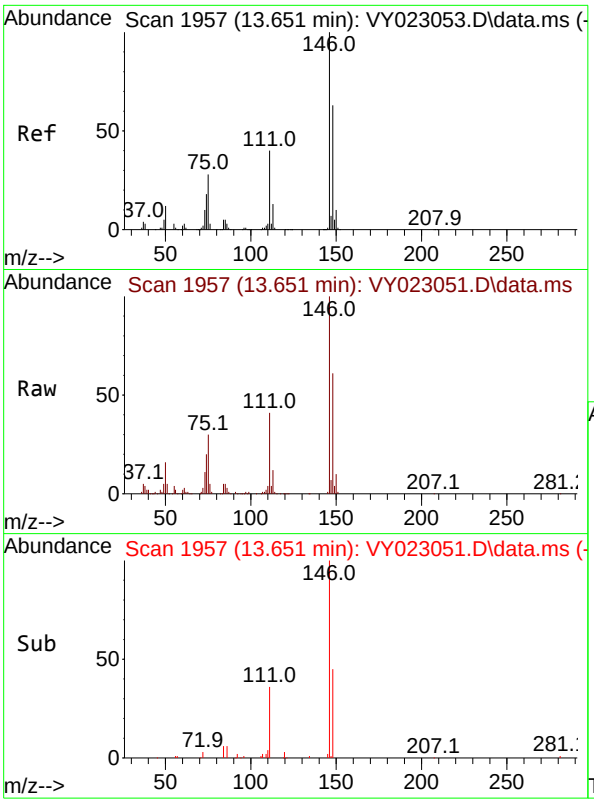


#90
Hexachloroethane
Concen: 10.071 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 47353

Ion	Ratio	Lower	Upper
117	100		
201	75.3	38.4	115.1

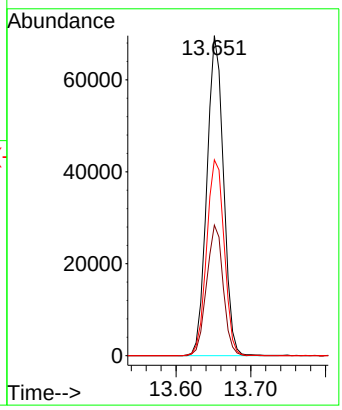




#91
1,2-Dichlorobenzene
Concen: 10.110 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 10765

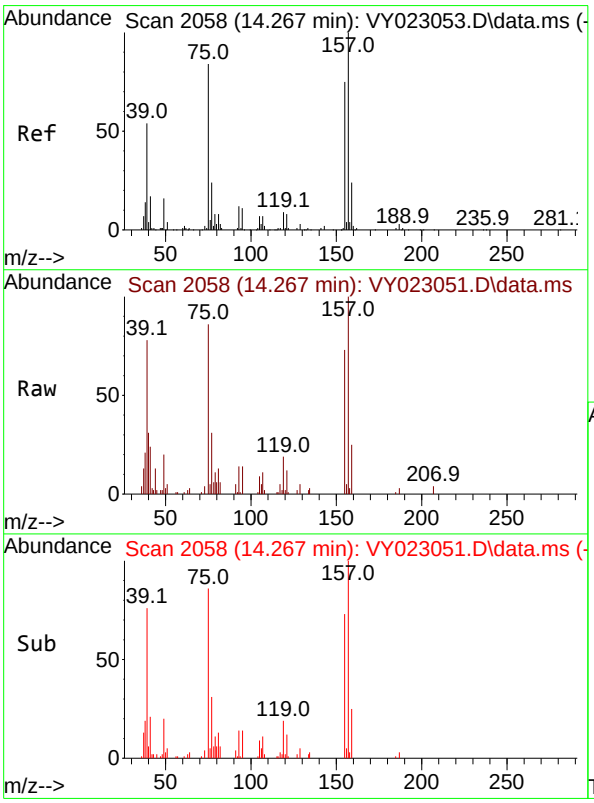
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	64.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

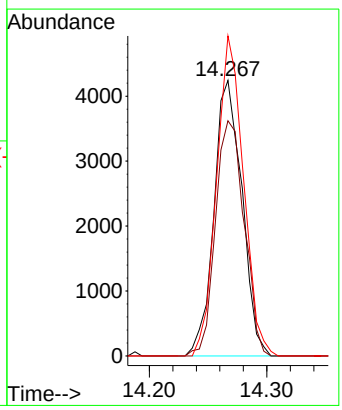
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

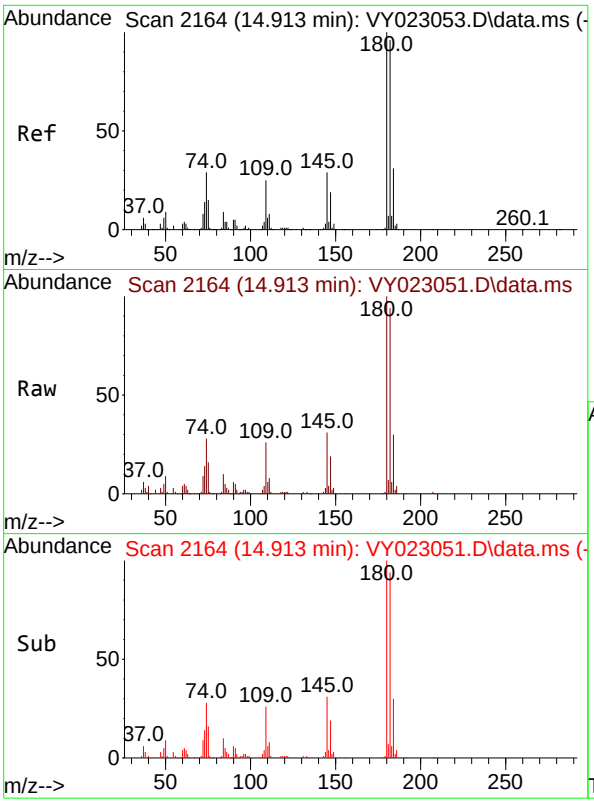


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.250 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 7032

Ion	Ratio	Lower	Upper
75	100		
155	87.6	43.9	131.6
157	111.5	57.2	171.6

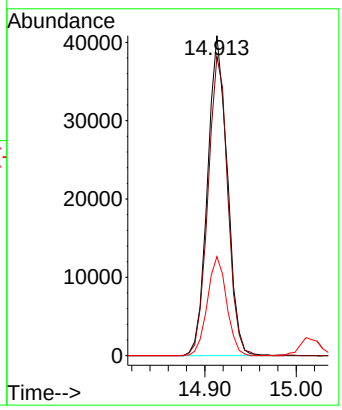




#93
1,2,4-Trichlorobenzene
Concen: 9.739 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 6132

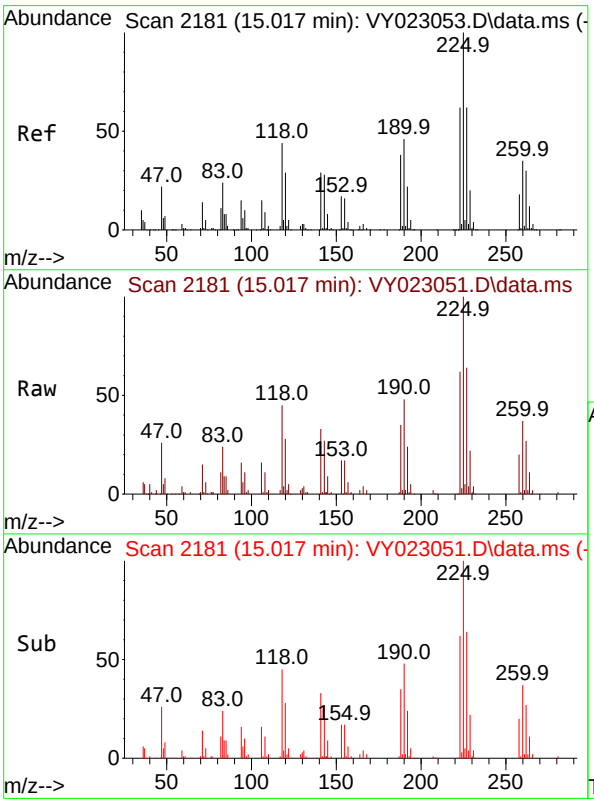
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.8	140.4
145	30.2	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

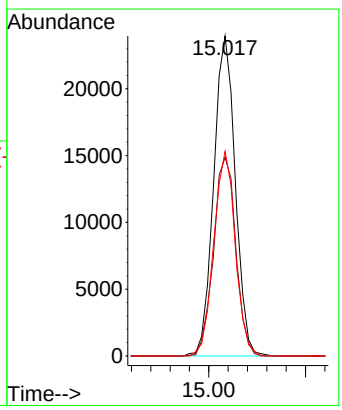
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

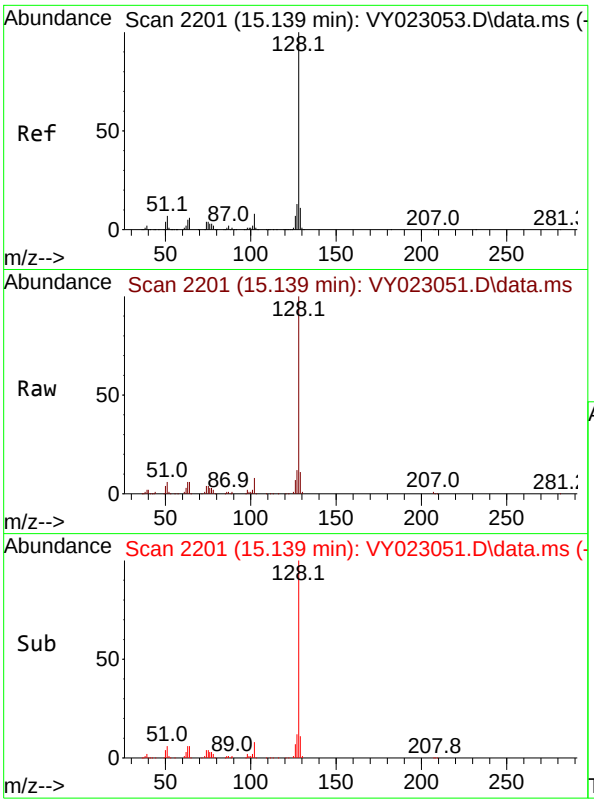


#94
Hexachlorobutadiene
Concen: 10.003 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:225 Resp: 37011

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.3	93.8
227	63.5	31.5	94.5

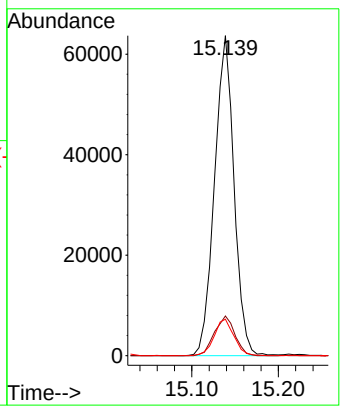




#95
Naphthalene
Concen: 9.293 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:128 Resp: 9978

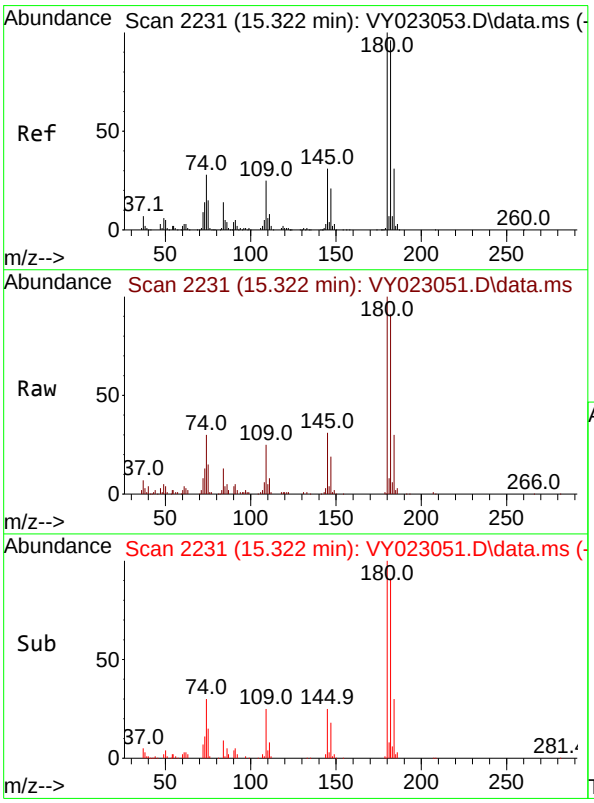
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.6	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

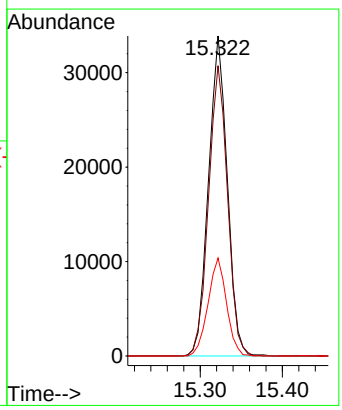
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 9.883 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 53626

Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.9	143.7
145	30.2	15.9	47.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	537748	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	848953	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	745484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	370932	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	103755	20.244	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	40.480%#		
35) Dibromofluoromethane	7.628	113	102068	20.093	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.180%#		
50) Toluene-d8	10.103	98	398394	20.075	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	40.160%#		
62) 4-Bromofluorobenzene	12.402	95	124467	19.503	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	39.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	98926	22.537	ug/l	98
3) Chloromethane	2.068	50	158310	22.268	ug/l	99
4) Vinyl Chloride	2.202	62	188307	21.427	ug/l	99
5) Bromomethane	2.586	94	140517	21.410	ug/l	99
6) Chloroethane	2.726	64	122310	20.934	ug/l	99
7) Trichlorofluoromethane	3.050	101	225373	21.090	ug/l	99
8) Diethyl Ether	3.452	74	58245	20.602	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.805	101	112116	21.267	ug/l	99
10) Methyl Iodide	3.994	142	115879	20.370	ug/l	99
11) Tert butyl alcohol	4.860	59	35192	100.214	ug/l	98
12) 1,1-Dichloroethene	3.781	96	107992	20.840	ug/l	99
13) Acrolein	3.653	56	54065	105.126	ug/l	100
14) Allyl chloride	4.379	41	155709	20.421	ug/l	97
15) Acrylonitrile	5.055	53	120151	104.535	ug/l	97
16) Acetone	3.866	43	113468	102.193	ug/l	96
17) Carbon Disulfide	4.098	76	357484	21.157	ug/l	98
18) Methyl Acetate	4.379	43	69853	21.141	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	278863	20.767	ug/l	99
20) Methylene Chloride	4.610	84	130416	21.069	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	120321	20.661	ug/l	96
22) Diisopropyl ether	6.012	45	346195	20.894	ug/l	95
23) Vinyl Acetate	5.951	43	941364	102.748	ug/l	97
24) 1,1-Dichloroethane	5.909	63	211558	20.884	ug/l	98
25) 2-Butanone	6.890	43	153363	101.559	ug/l	100
26) 2,2-Dichloropropane	6.878	77	181528	20.767	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	138775	20.613	ug/l	99
28) Bromochloromethane	7.244	49	84540	21.035	ug/l	99
29) Tetrahydrofuran	7.262	42	95795	102.341	ug/l	99
30) Chloroform	7.415	83	215585	20.635	ug/l	98
31) Cyclohexane	7.701	56	194671	20.393	ug/l	96
32) 1,1,1-Trichloroethane	7.610	97	193268	20.848	ug/l	99
36) 1,1-Dichloropropene	7.835	75	156617	20.746	ug/l	98
37) Ethyl Acetate	6.982	43	66420	20.944	ug/l	100
38) Carbon Tetrachloride	7.817	117	171344	20.897	ug/l	98
39) Methylcyclohexane	9.103	83	205594	20.680	ug/l	98
40) Benzene	8.079	78	485631	20.871	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	37785m	20.623	ug/l		
42) 1,2-Dichloroethane	8.152	62	126111	20.839	ug/l		100
43) Isopropyl Acetate	8.195	43	131854	20.571	ug/l		98
44) Trichloroethene	8.859	130	126772	21.083	ug/l		98
45) 1,2-Dichloropropane	9.134	63	110699	20.677	ug/l		99
46) Dibromomethane	9.225	93	63410	20.635	ug/l		98
47) Bromodichloromethane	9.420	83	165954	20.988	ug/l		96
48) Methyl methacrylate	9.219	41	64120	20.905	ug/l		98
49) 1,4-Dioxane	9.225	88	14826	411.480	ug/l		98
51) 4-Methyl-2-Pentanone	9.993	43	339298	102.622	ug/l		100
52) Toluene	10.164	92	306193	20.719	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	147696	20.627	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	174243	20.580	ug/l		96
55) 1,1,2-Trichloroethane	10.566	97	86022	20.920	ug/l		99
56) Ethyl methacrylate	10.432	69	105816	20.111	ug/l		99
57) 1,3-Dichloropropane	10.713	76	145621	20.882	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	244340	98.450	ug/l		99
59) 2-Hexanone	10.755	43	231872	102.992	ug/l		99
60) Dibromochloromethane	10.908	129	110810	20.424	ug/l		99
61) 1,2-Dibromoethane	11.012	107	80549	20.842	ug/l		97
64) Tetrachloroethene	10.640	164	141609	21.273	ug/l		99
65) Chlorobenzene	11.438	112	332700	20.690	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	112677	20.647	ug/l		99
67) Ethyl Benzene	11.511	91	564855	20.412	ug/l		99
68) m/p-Xylenes	11.621	106	444361	41.115	ug/l		98
69) o-Xylene	11.950	106	207639	20.513	ug/l		99
70) Styrene	11.963	104	339891	20.532	ug/l		99
71) Bromoform	12.127	173	64275	20.151	ug/l	#	98
73) Isopropylbenzene	12.249	105	534421	20.413	ug/l		100
74) N-amyl acetate	12.066	43	112297	20.227	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	89782	20.085	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	70070m	19.560	ug/l		
77) Bromobenzene	12.523	156	128501	20.574	ug/l		99
78) n-propylbenzene	12.590	91	640528	20.550	ug/l		99
79) 2-Chlorotoluene	12.670	91	365577	20.471	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	435074	20.563	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	30153	20.389	ug/l		97
82) 4-Chlorotoluene	12.773	91	385755	20.822	ug/l		99
83) tert-Butylbenzene	12.993	119	389621	20.389	ug/l		100
84) 1,2,4-Trimethylbenzene	13.036	105	438392	20.814	ug/l		98
85) sec-Butylbenzene	13.170	105	575804	20.512	ug/l		100
86) p-Isopropyltoluene	13.285	119	480937	20.640	ug/l		100
87) 1,3-Dichlorobenzene	13.279	146	252452	20.497	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	249280	20.403	ug/l		99
89) n-Butylbenzene	13.609	91	440963	20.605	ug/l		99
90) Hexachloroethane	13.871	117	96478	20.226	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	222000	20.552	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	13973	20.076	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	130718	20.464	ug/l		98
94) Hexachlorobutadiene	15.017	225	77511	20.650	ug/l		99
95) Naphthalene	15.139	128	216923	19.915	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	111506	20.258	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

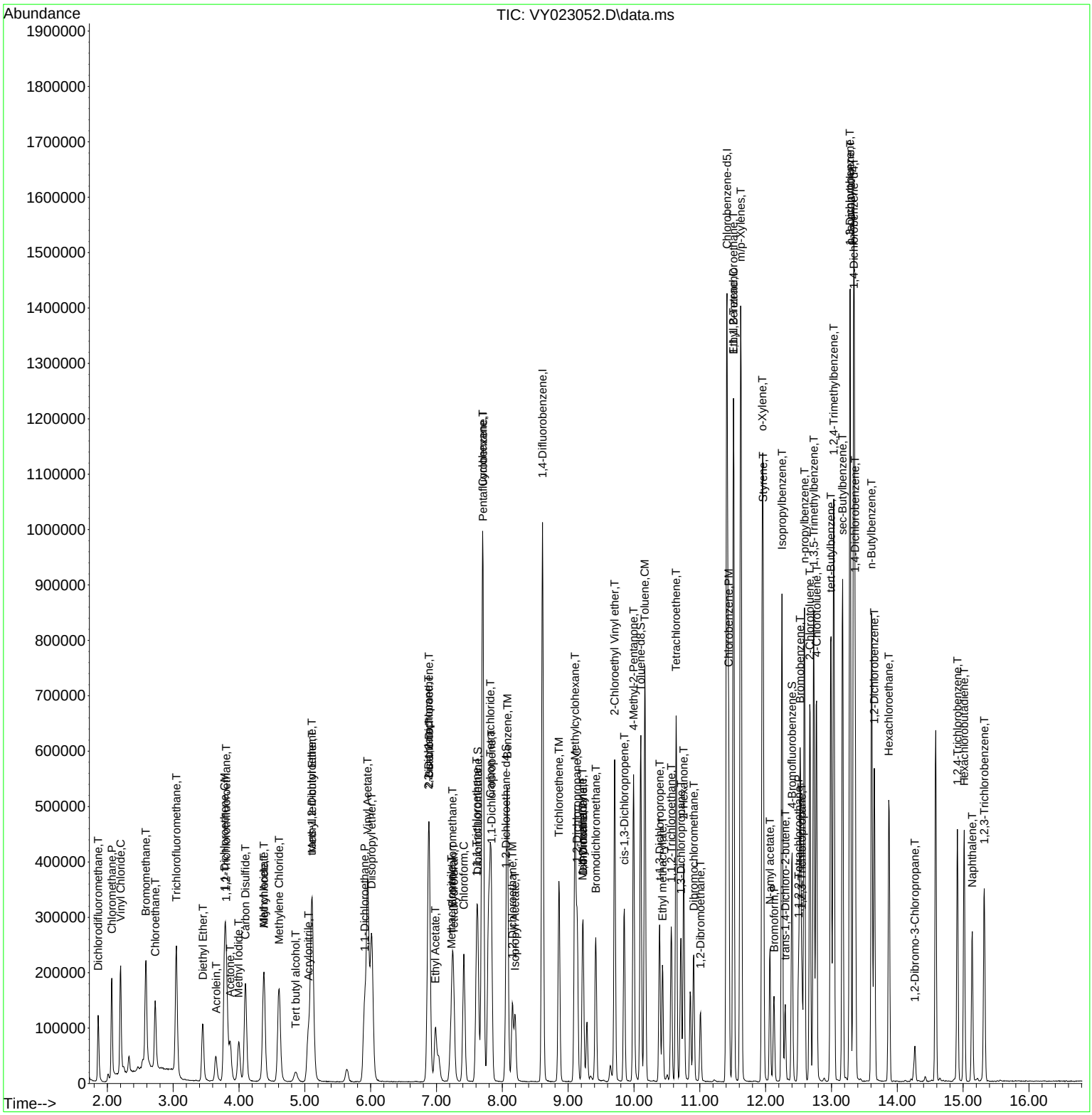
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

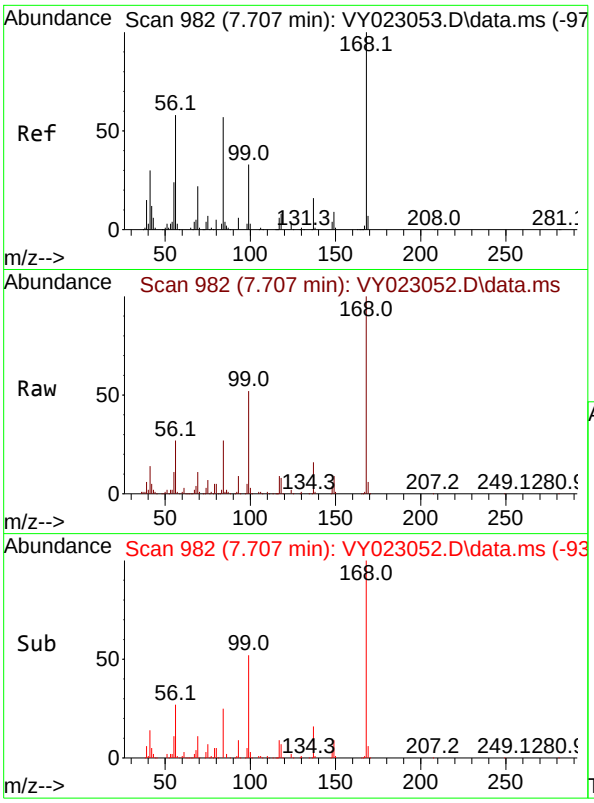
Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

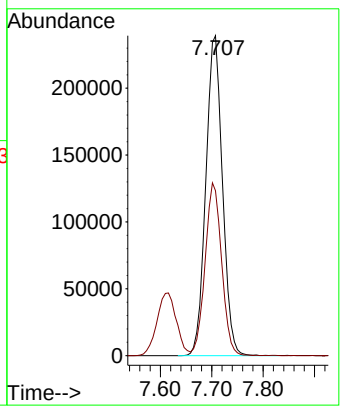




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:168 Resp: 53774

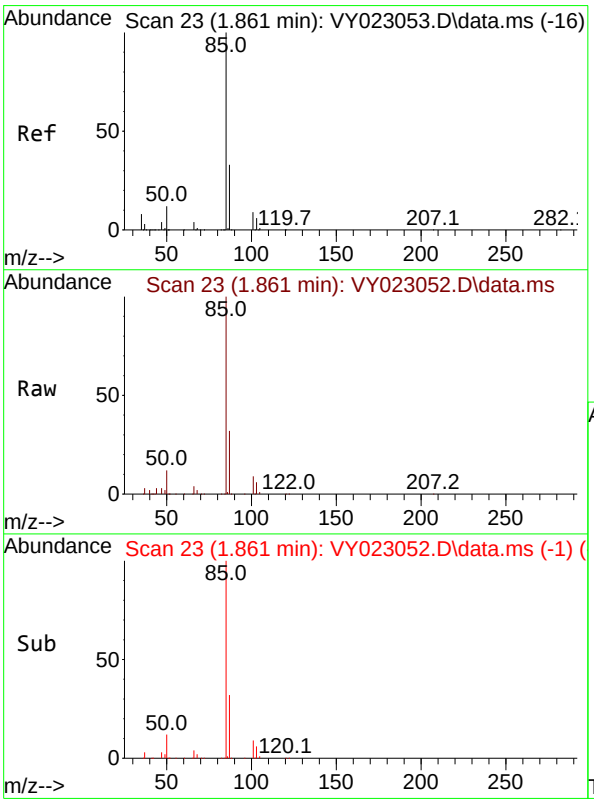
Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

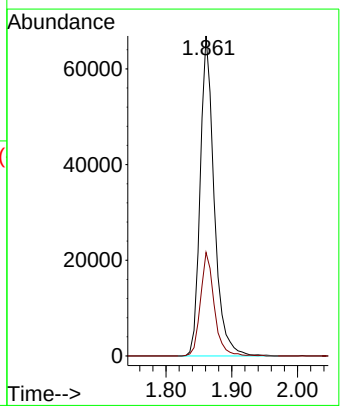
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

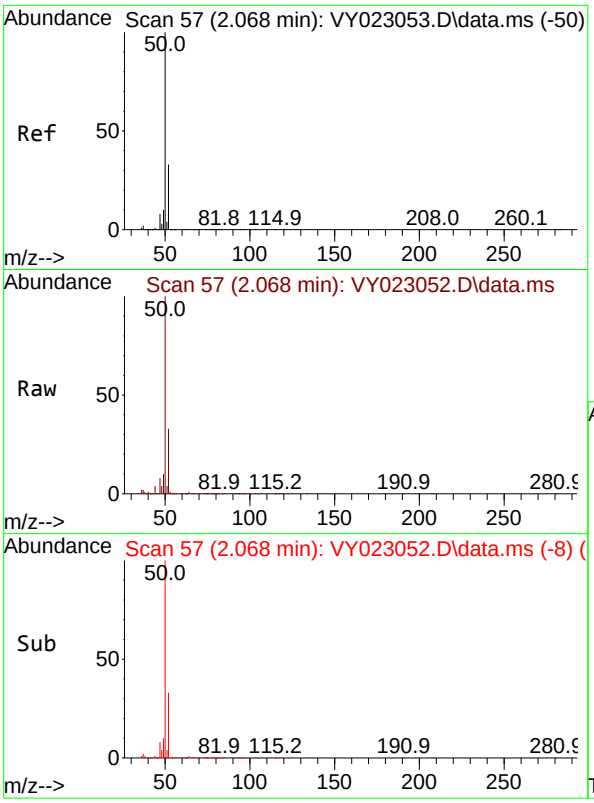


#2
Dichlorodifluoromethane
Concen: 22.537 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 85 Resp: 98926

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

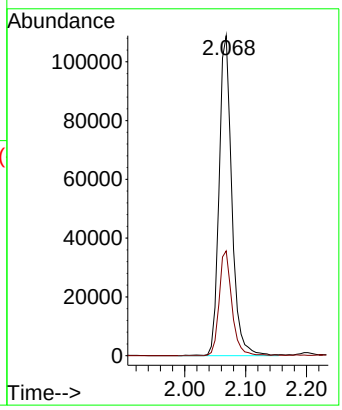




#3
Chloromethane
Concen: 22.268 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 50 Resp: 15831

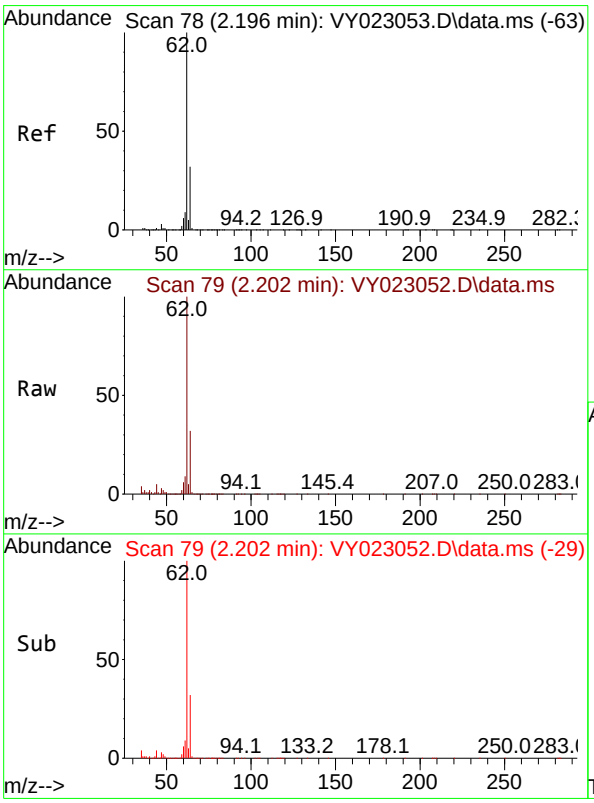
Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

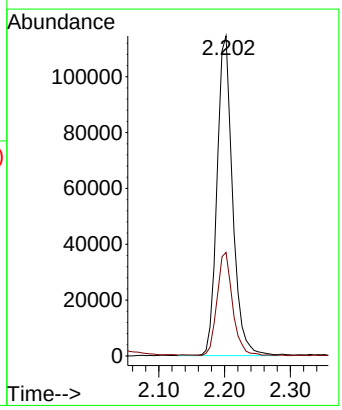
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

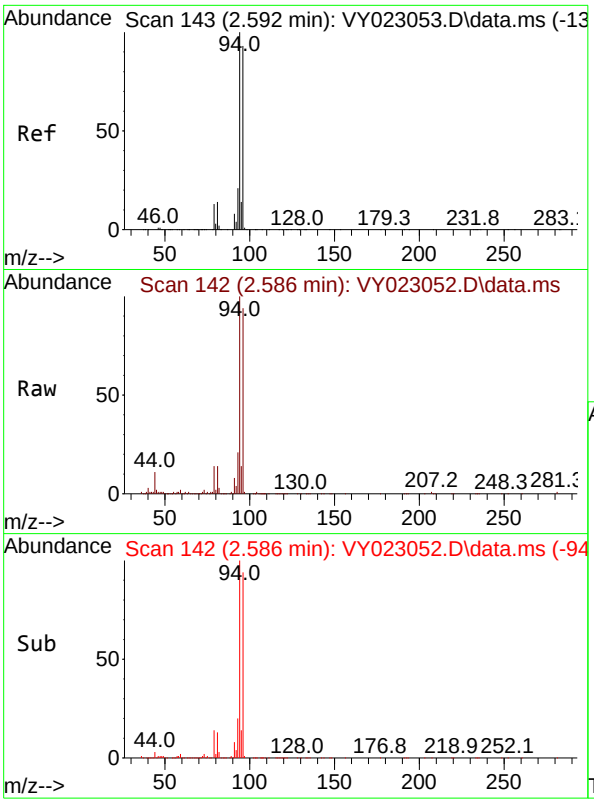


#4
Vinyl Chloride
Concen: 21.427 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 188307

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0





#5
Bromomethane
Concen: 21.410 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 94 Resp: 14051

Ion	Ratio	Lower	Upper
94	100		
96	94.1	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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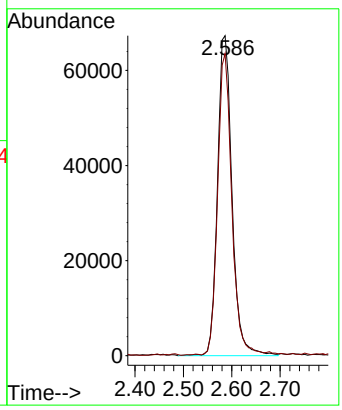
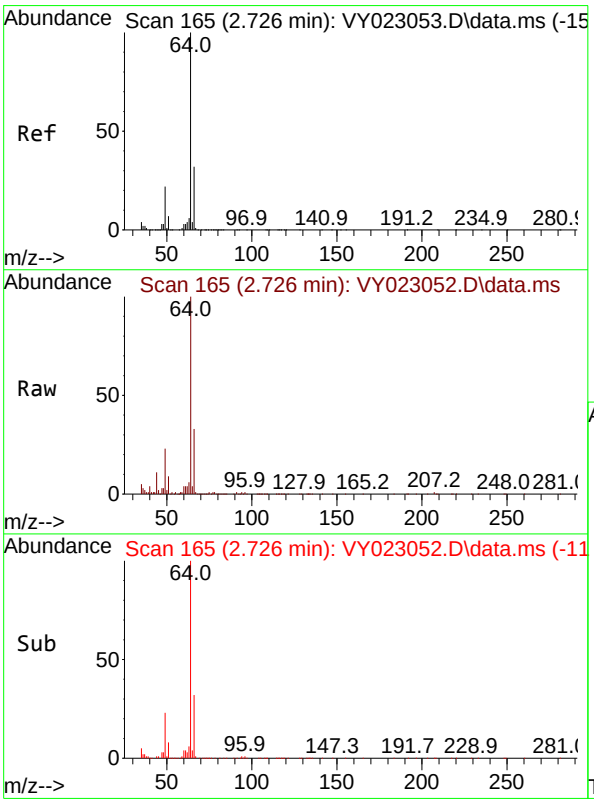
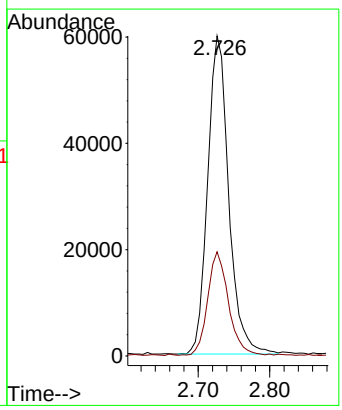


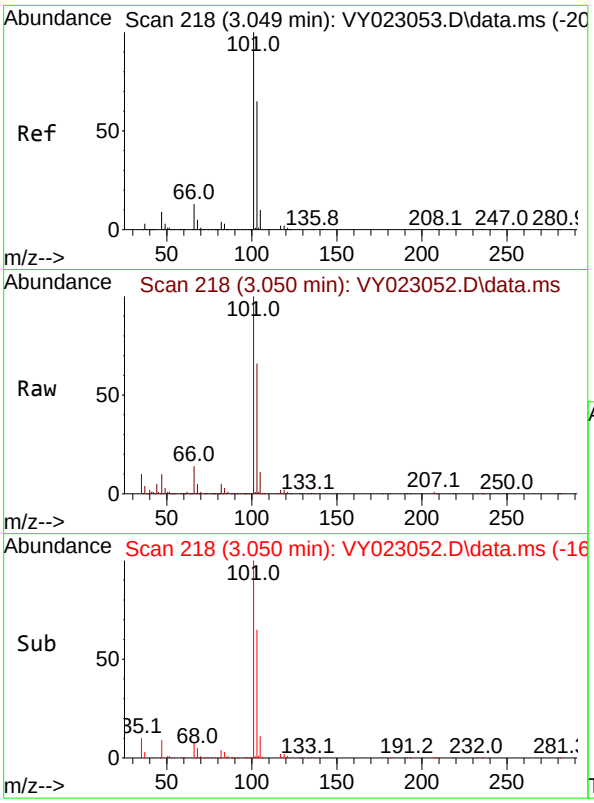


#6
Chloroethane
Concen: 20.934 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 64 Resp: 122310

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.8	38.6





#7
Trichlorofluoromethane
Concen: 21.090 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:101 Resp: 22537

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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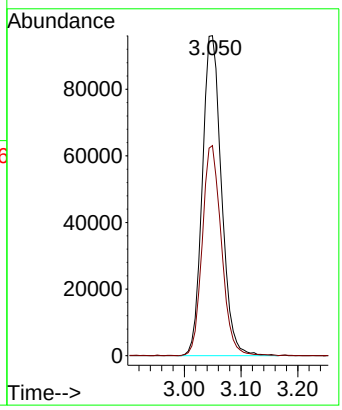
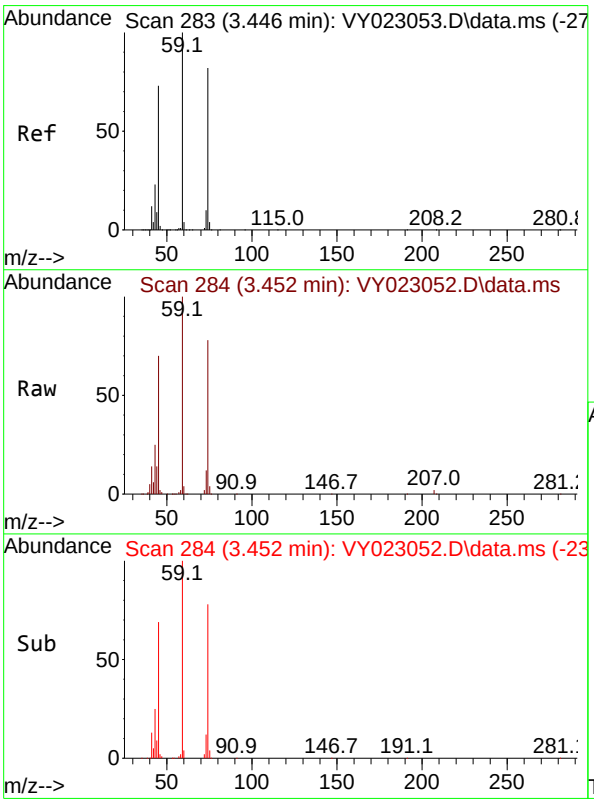
Supervised By :Semsettin Yesilyurt 08/14/2025

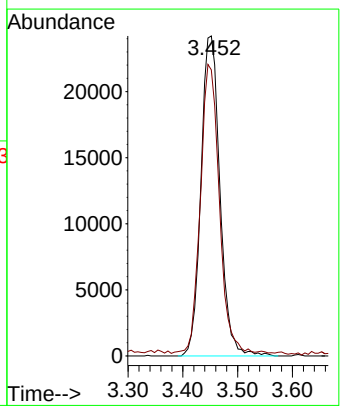


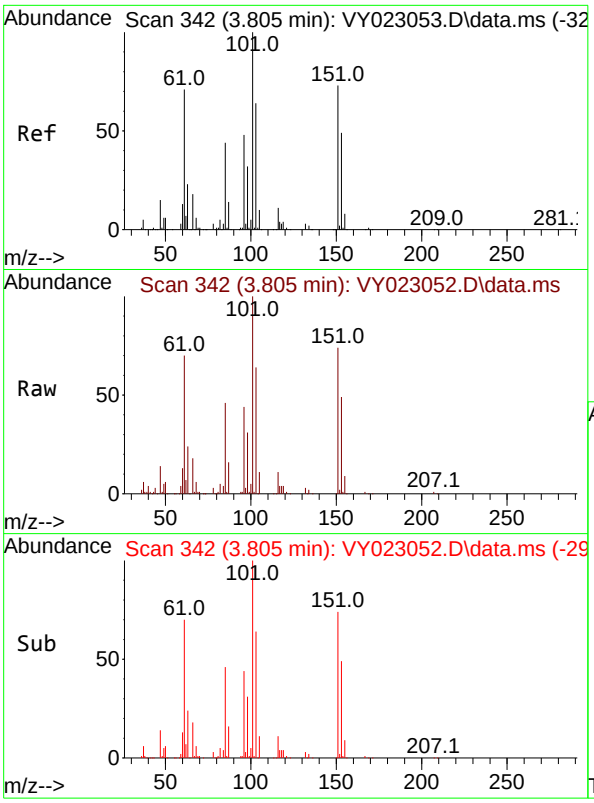


#8
Diethyl Ether
Concen: 20.602 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 74 Resp: 58245

Ion	Ratio	Lower	Upper
74	100		
45	89.8	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.267 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:101 Resp: 11211(

Ion	Ratio	Lower	Upper
101	100		
85	44.2	36.3	54.5
151	76.8	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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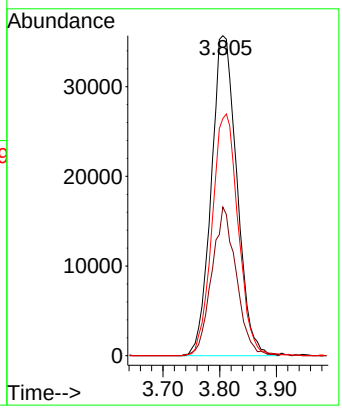
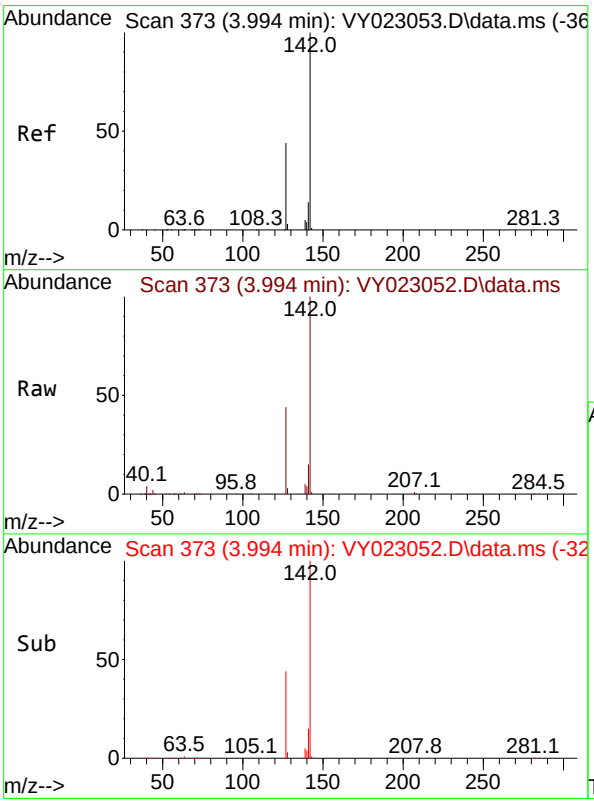
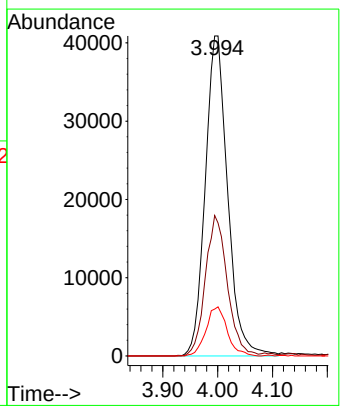


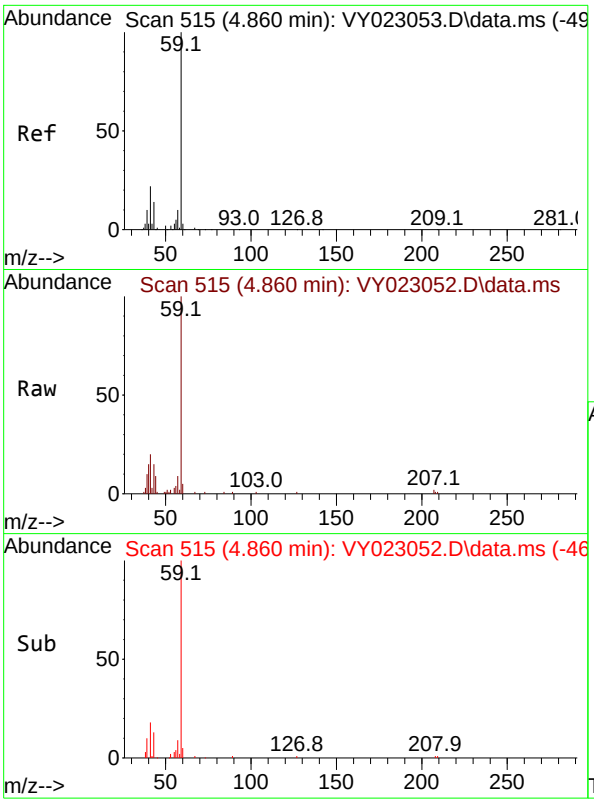


#10
Methyl Iodide
Concen: 20.370 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:142 Resp: 115879

Ion	Ratio	Lower	Upper
142	100		
127	43.0	34.9	52.3
141	14.6	11.3	16.9

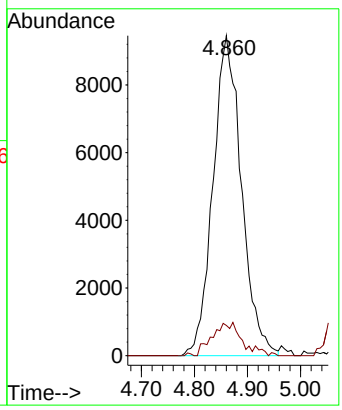




#11
Tert butyl alcohol
Concen: 100.214 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 59 Resp: 3519

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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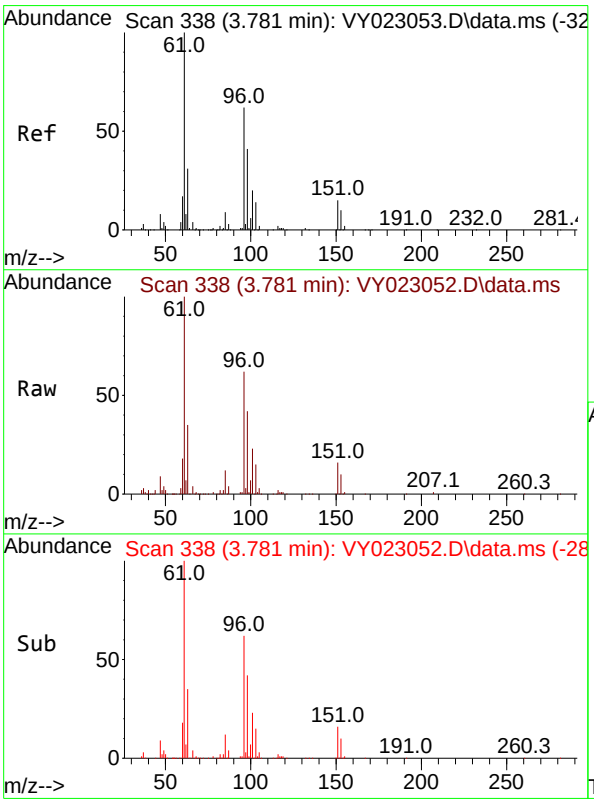
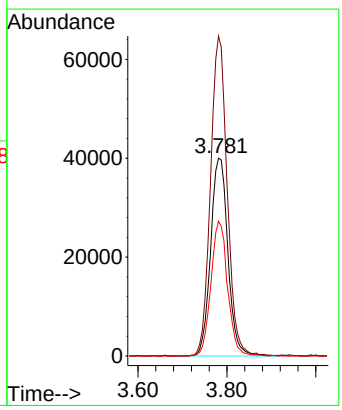
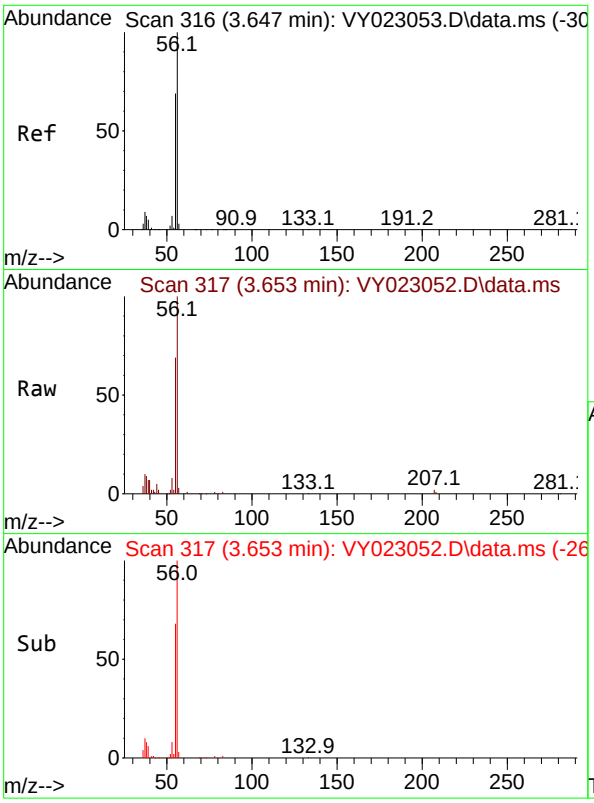


#12
1,1-Dichloroethene
Concen: 20.840 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 107992

Ion	Ratio	Lower	Upper
96	100		
61	161.8	129.4	194.2
98	68.1	52.8	79.2

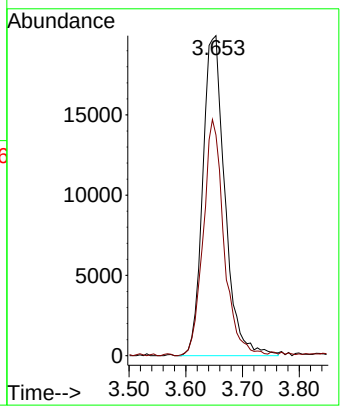




#13
Acrolein
Concen: 105.126 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 56 Resp: 5406

Ion	Ratio	Lower	Upper
56	100		
55	69.1	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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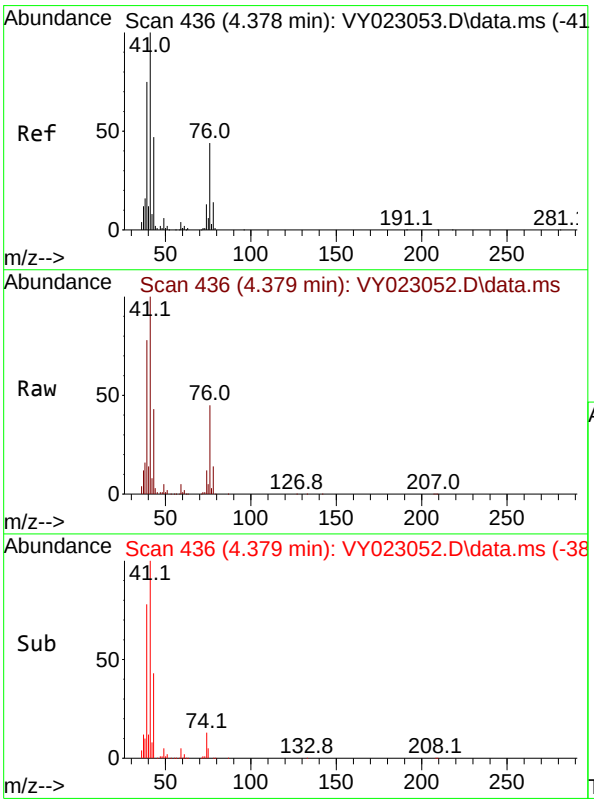
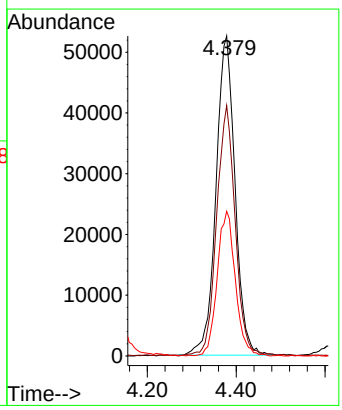
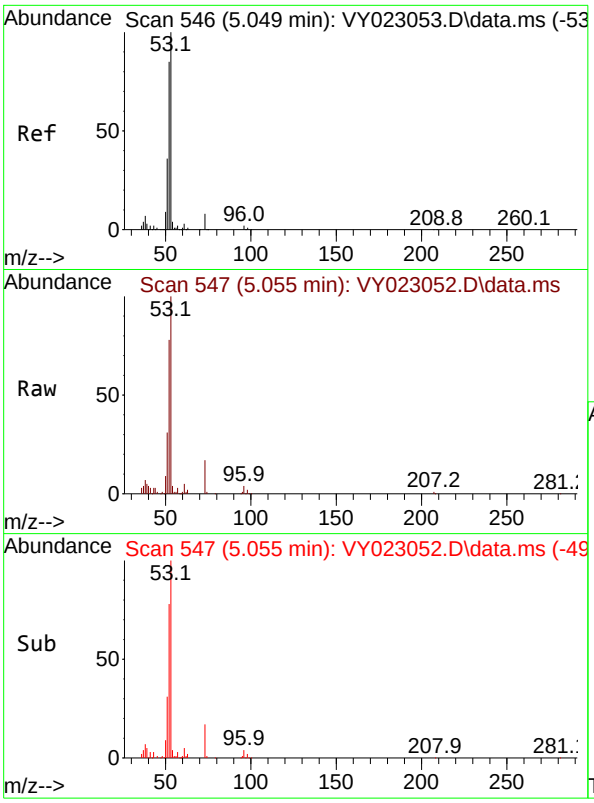


#14
Allyl chloride
Concen: 20.421 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 155709

Ion	Ratio	Lower	Upper
41	100		
39	77.1	59.8	89.6
76	43.3	33.7	50.5

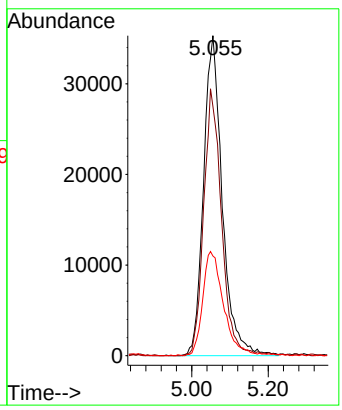




#15
Acrylonitrile
Concen: 104.535 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 53 Resp: 12015

Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.3	97.9
51	35.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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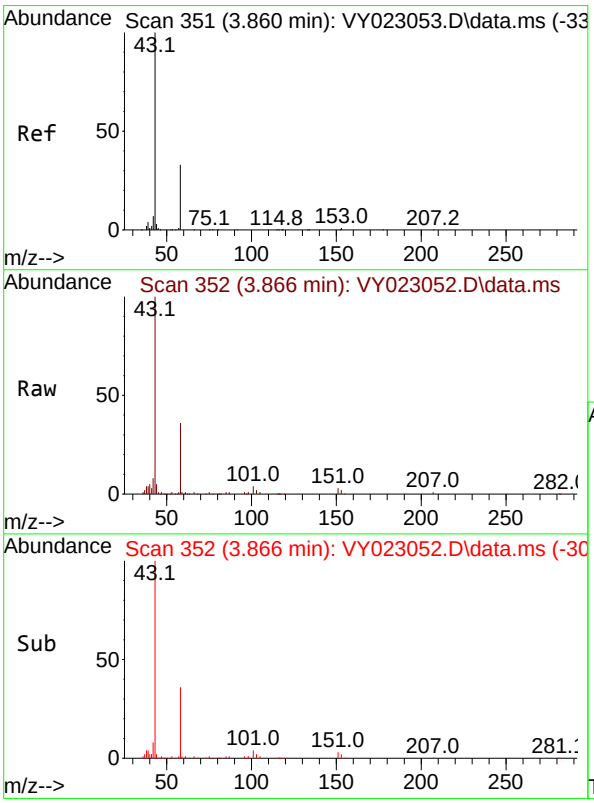
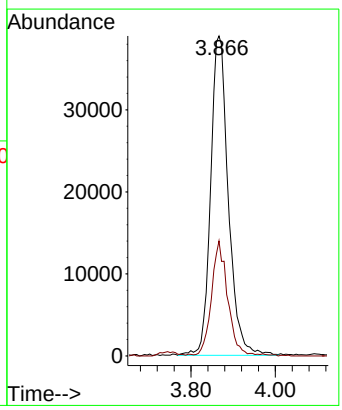
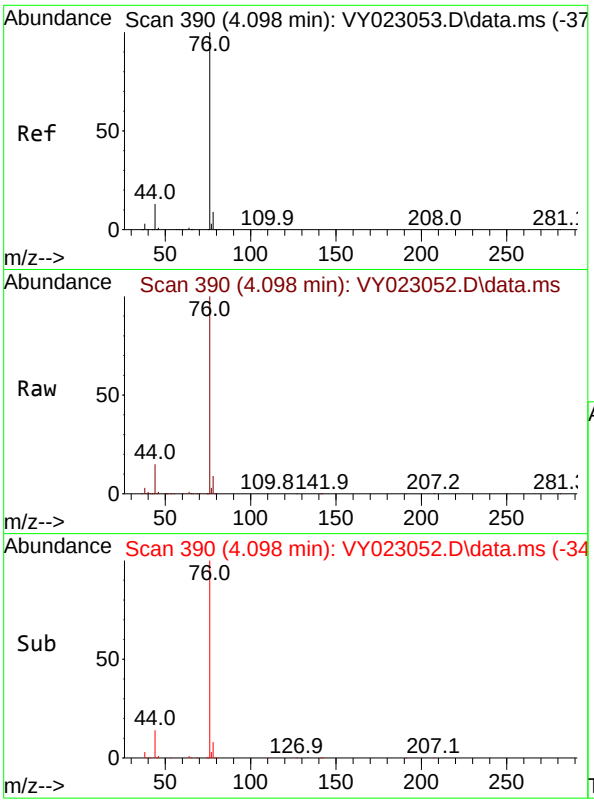


#16
Acetone
Concen: 102.193 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 113468

Ion	Ratio	Lower	Upper
43	100		
58	36.0	27.1	40.7

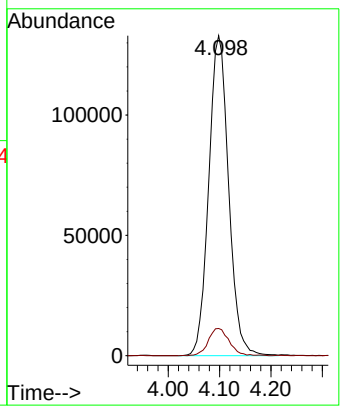




#17
Carbon Disulfide
Concen: 21.157 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 76 Resp: 35748

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
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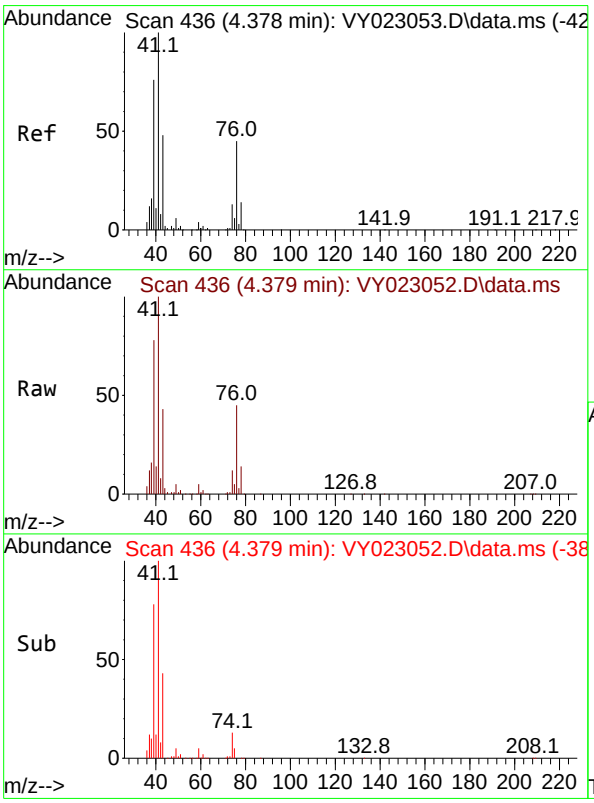
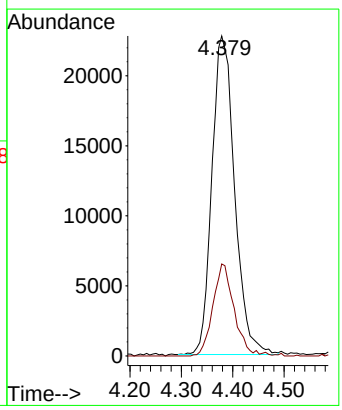
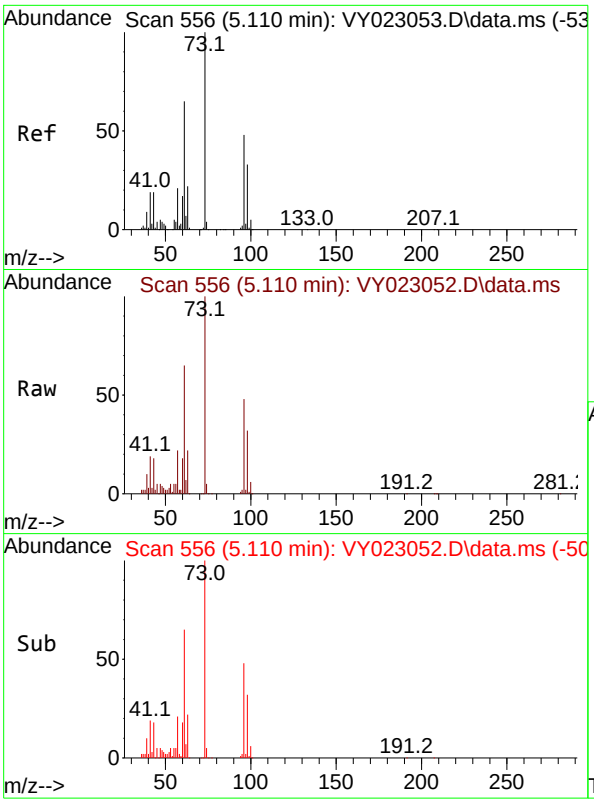


#18
Methyl Acetate
Concen: 21.141 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 69853

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.2	31.8

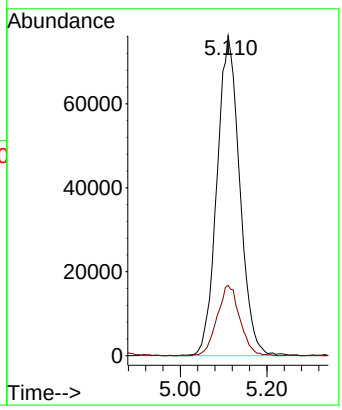




#19
Methyl tert-butyl Ether
Concen: 20.767 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 73 Resp: 27886

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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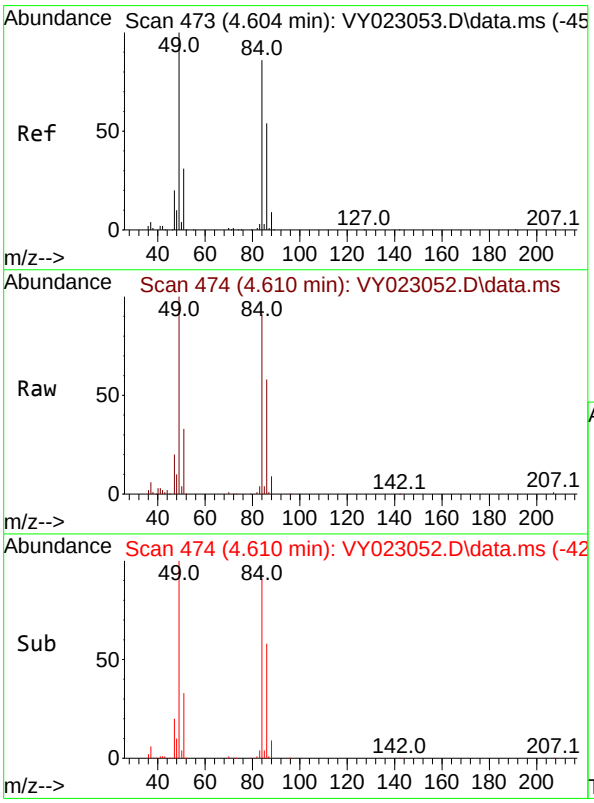
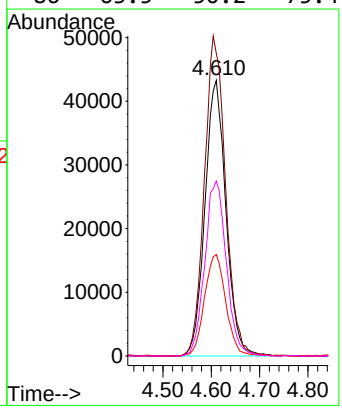
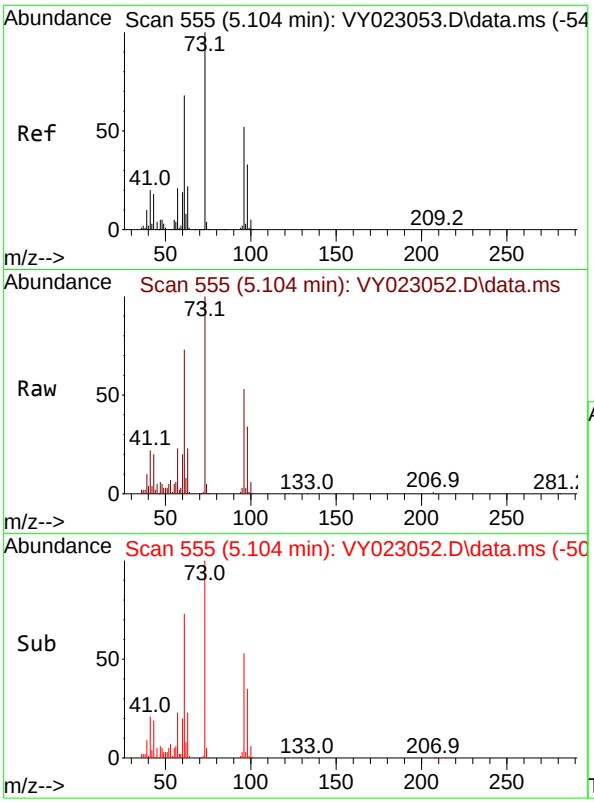


#20
Methylene Chloride
Concen: 21.069 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 84 Resp: 130416

Ion	Ratio	Lower	Upper
84	100		
49	109.9	93.0	139.6
51	36.8	29.0	43.4
86	63.5	50.2	75.4

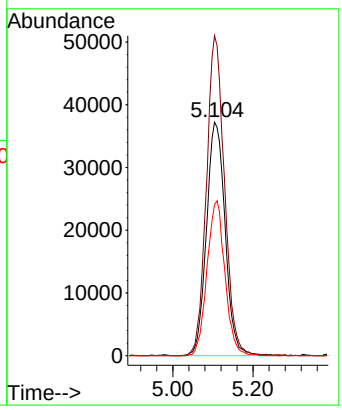




#21
trans-1,2-Dichloroethene
Concen: 20.661 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 12032

Ion	Ratio	Lower	Upper
96	100		
61	137.0	104.8	157.2
98	64.7	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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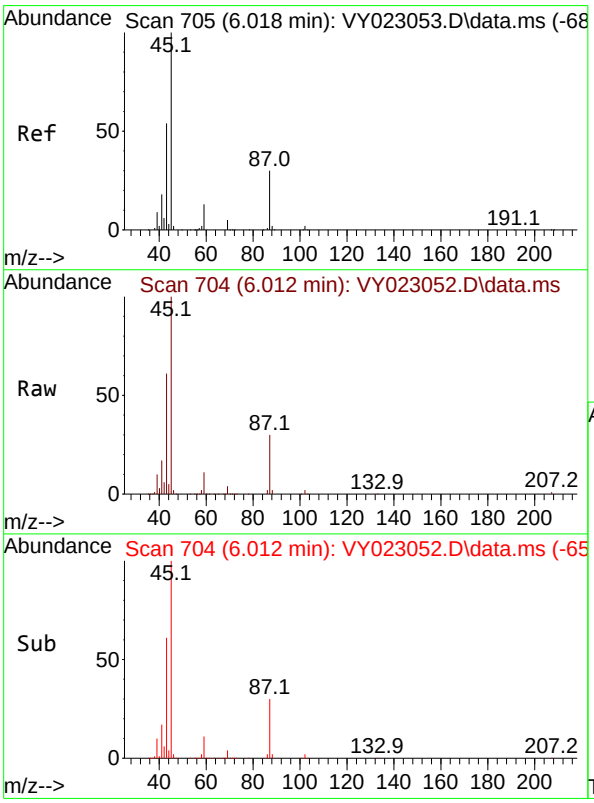
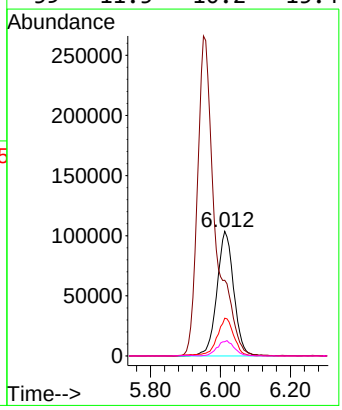
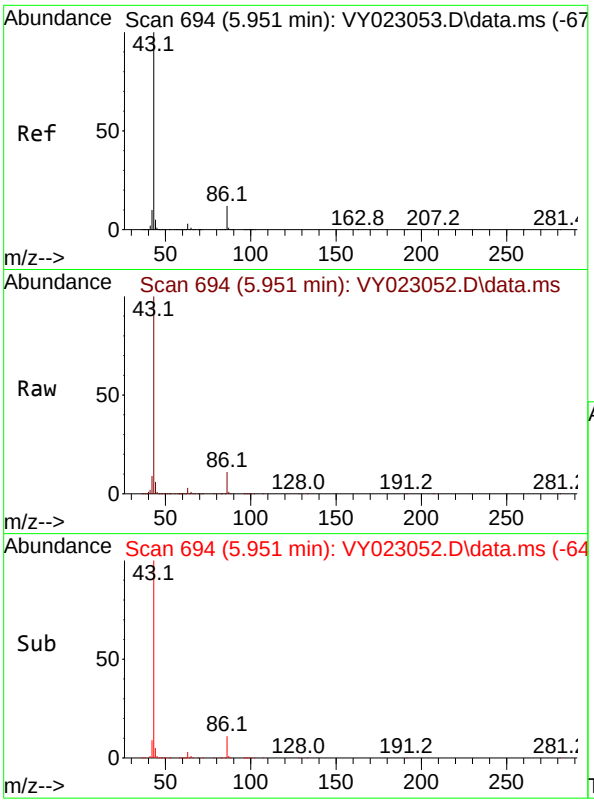


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 45 Resp: 346195

Ion	Ratio	Lower	Upper
45	100		
43	60.5	43.4	65.0
87	30.3	24.4	36.6
59	11.5	10.2	15.4

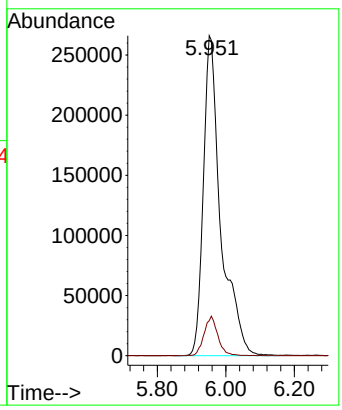




#23
Vinyl Acetate
Concen: 102.748 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 94136

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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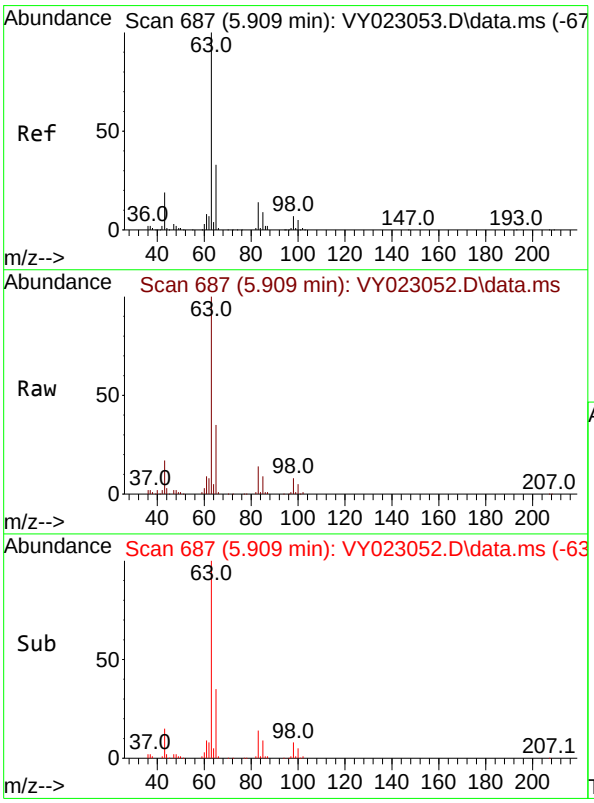
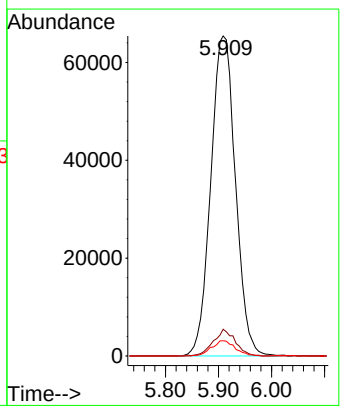
Supervised By :Semsettin Yesilyurt 08/14/2025

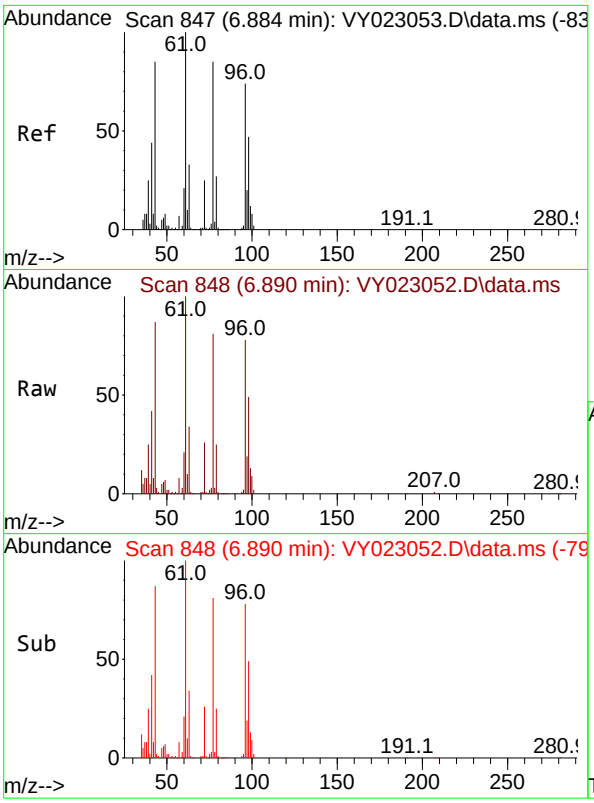


#24
1,1-Dichloroethane
Concen: 20.884 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 211558

Ion	Ratio	Lower	Upper
63	100		
98	8.4	3.5	10.6
100	4.8	2.4	7.1





#25
2-Butanone
Concen: 101.559 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 15336

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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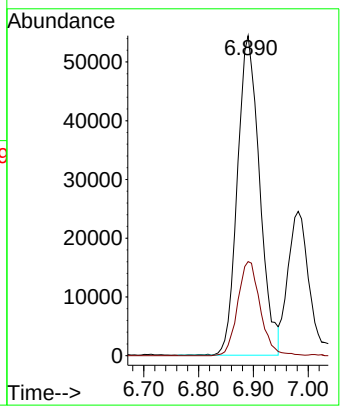
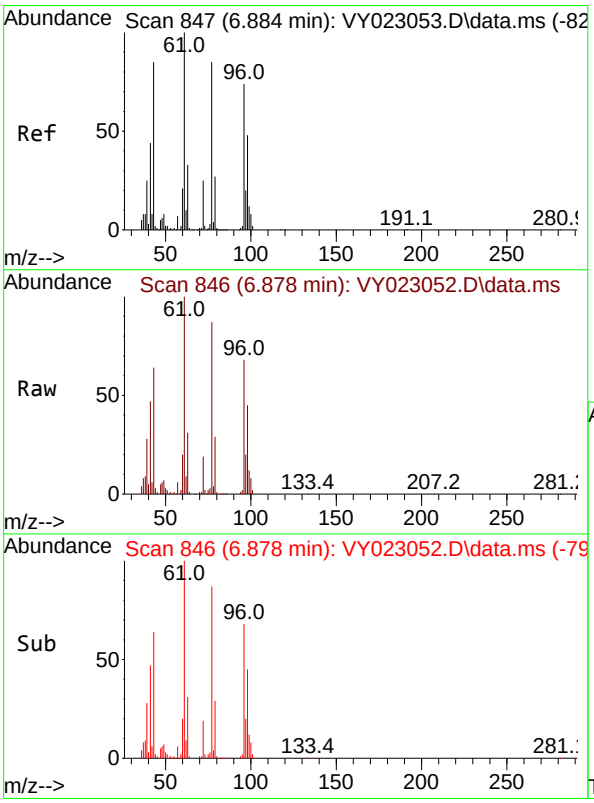
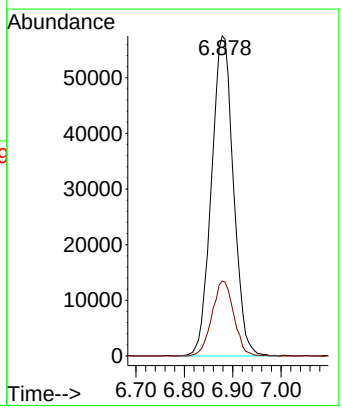


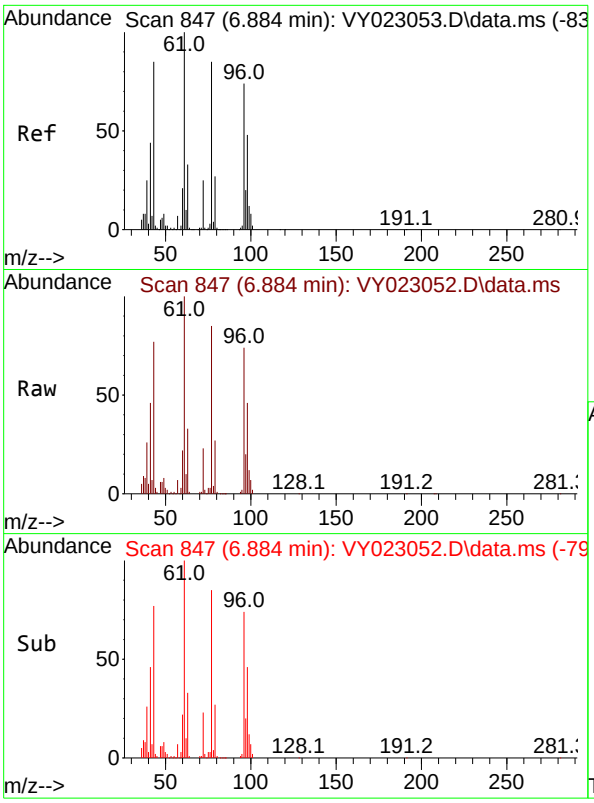


#26
2,2-Dichloropropane
Concen: 20.767 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 77 Resp: 181528

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 20.613 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 13877

Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	278.6
98	63.4	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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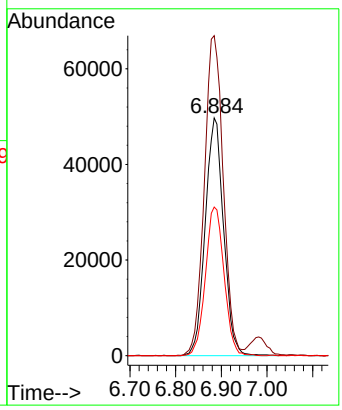
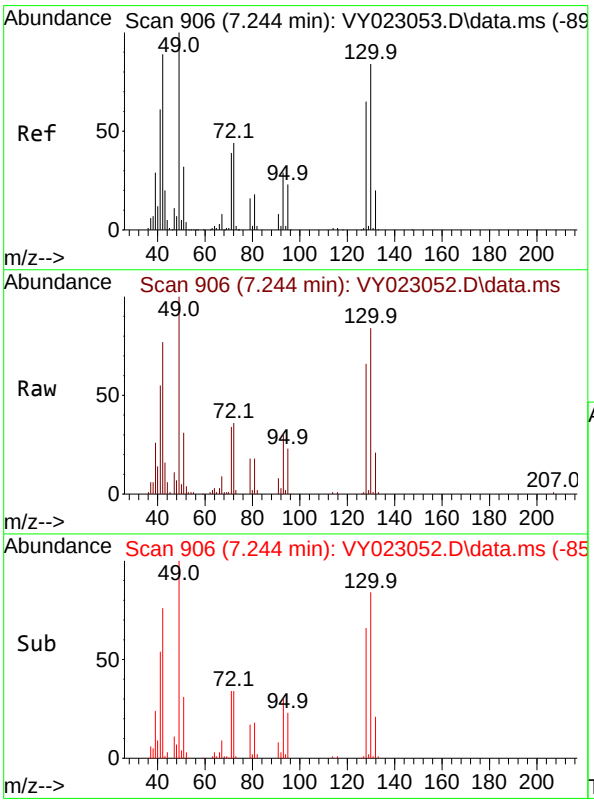
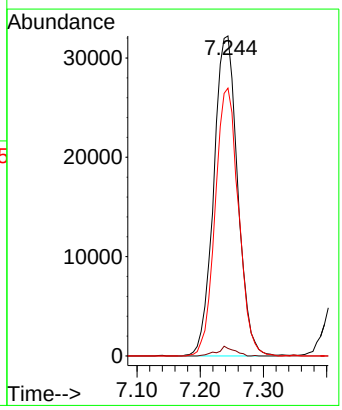


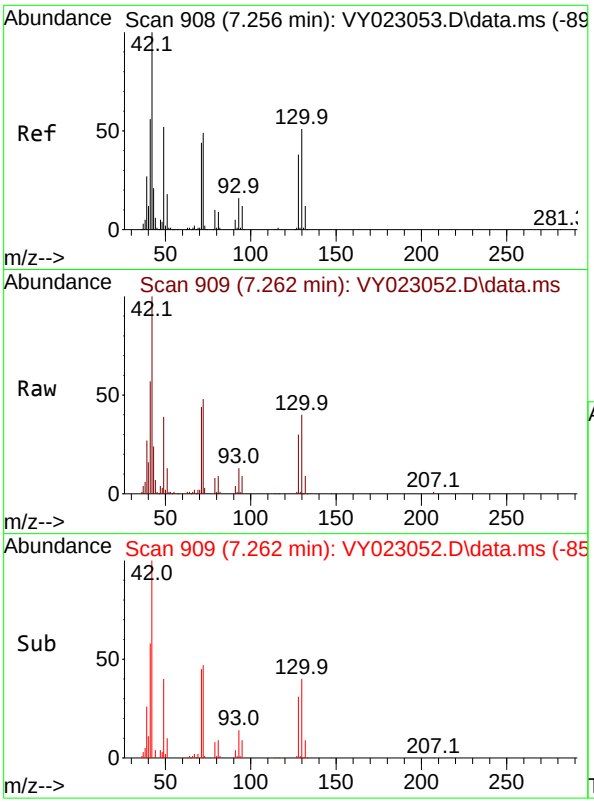


#28
Bromochloromethane
Concen: 21.035 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 49 Resp: 84540

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	81.7	66.4	99.6





#29
Tetrahydrofuran
Concen: 102.341 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 42 Resp: 9579

Ion	Ratio	Lower	Upper
42	100		
72	48.8	39.4	59.2
71	44.8	36.5	54.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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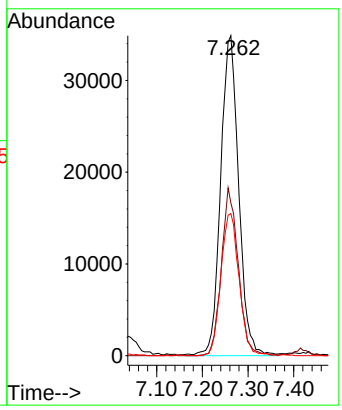
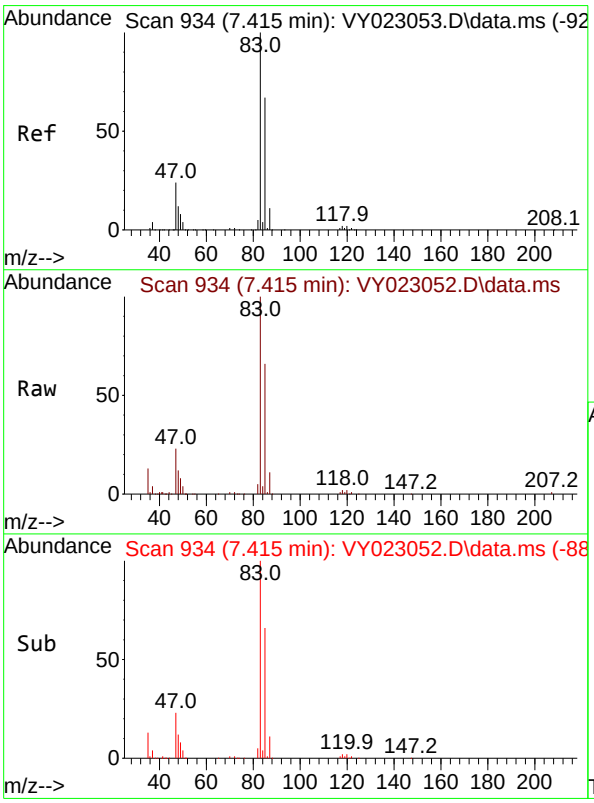
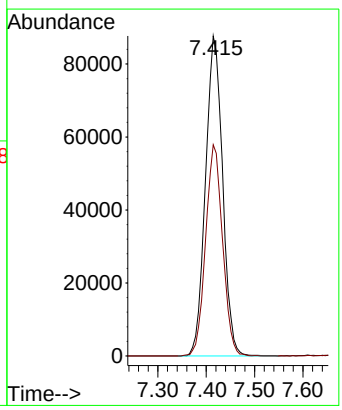


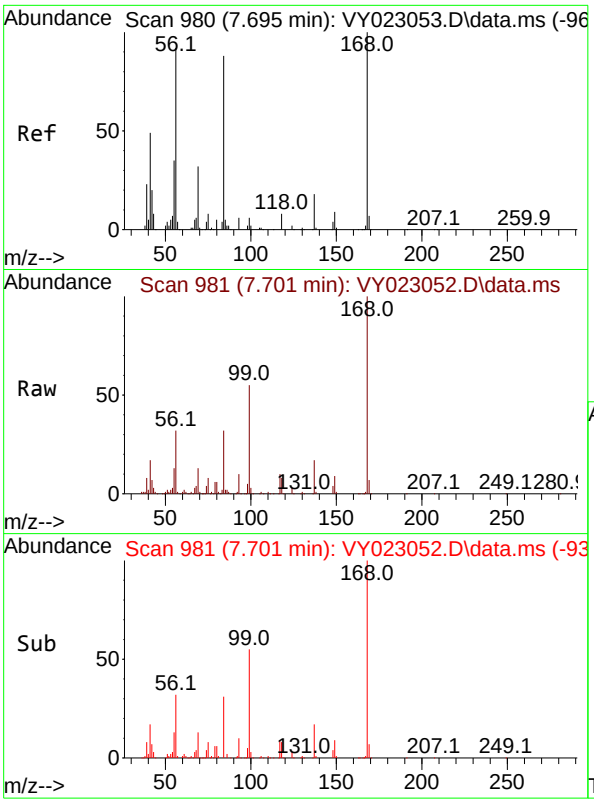


#30
Chloroform
Concen: 20.635 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 215585

Ion	Ratio	Lower	Upper
83	100		
85	66.0	53.8	80.8





#31
Cyclohexane
Concen: 20.393 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 56 Resp: 19467

Ion	Ratio	Lower	Upper
56	100		
69	39.1	28.2	42.2
84	98.0	76.6	114.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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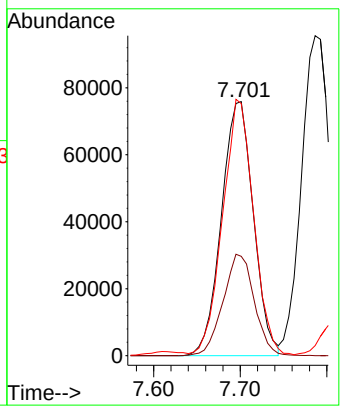
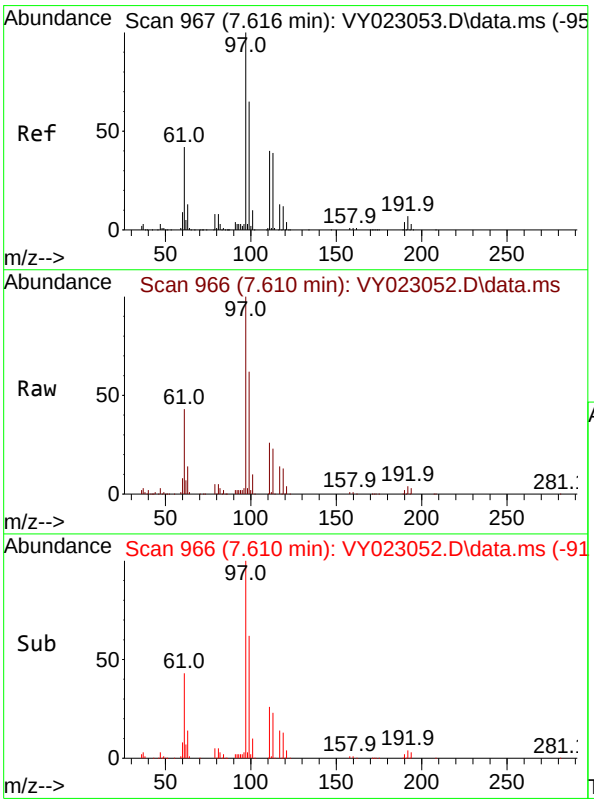
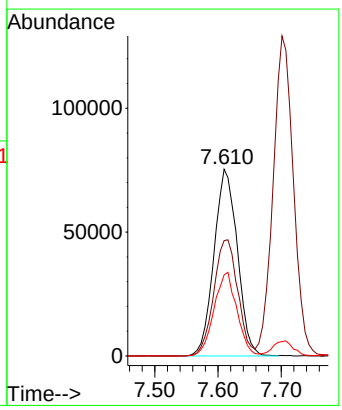


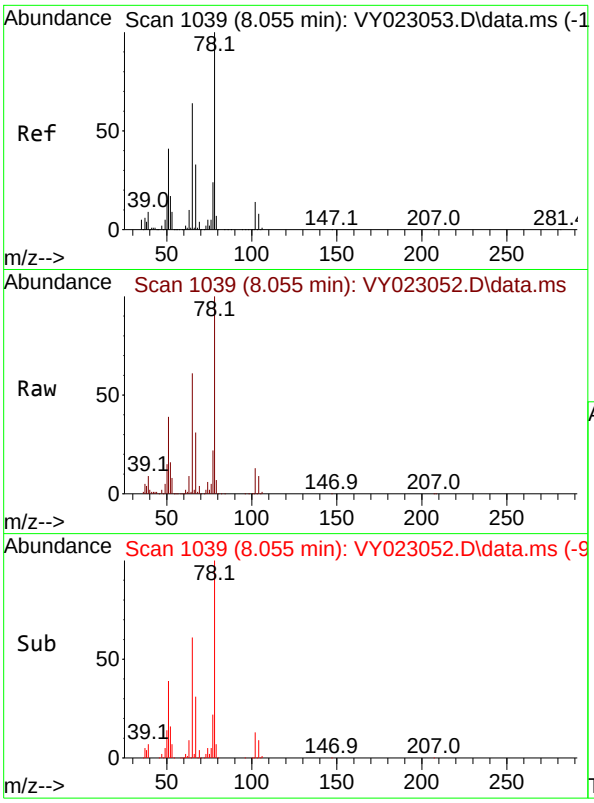


#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 97 Resp: 193268

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.6	77.4
61	43.9	34.2	51.2





#33
1,2-Dichloroethane-d4
Concen: 20.244 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 65 Resp: 10375

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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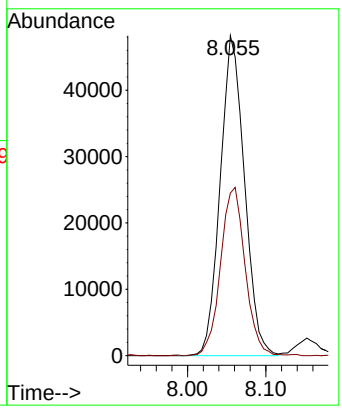
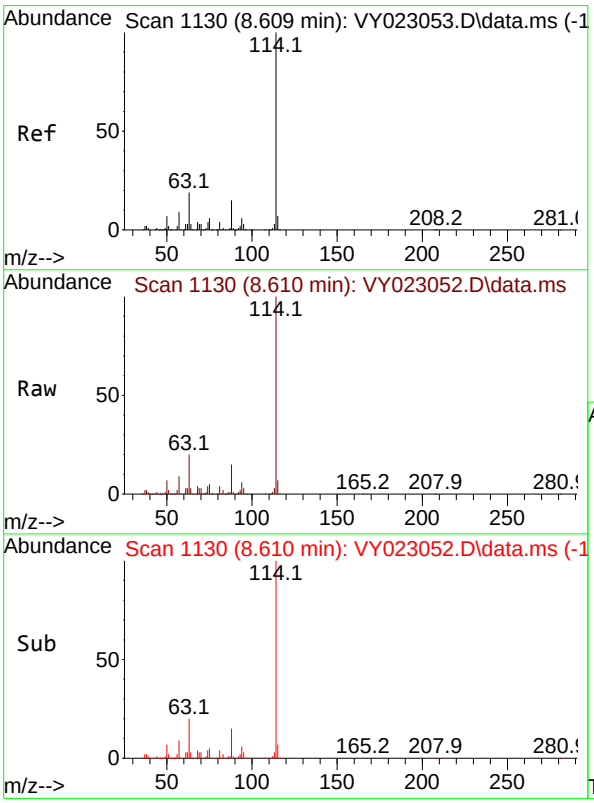
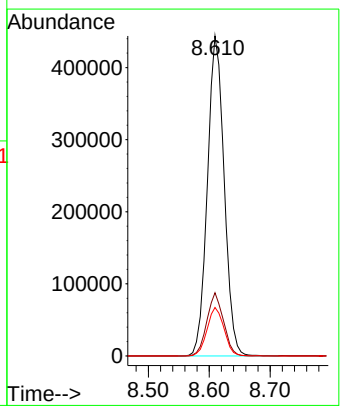


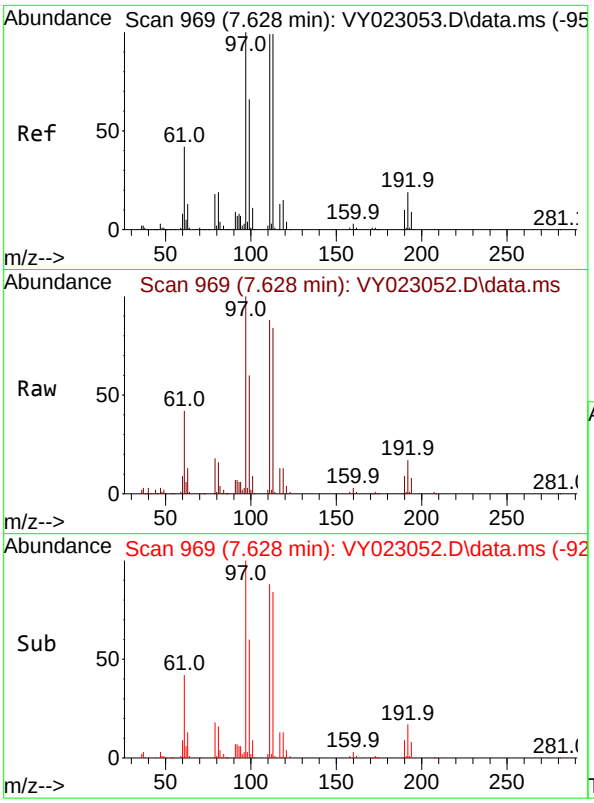


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:114 Resp: 848953

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.2	0.0	30.0





#35
Dibromofluoromethane
Concen: 20.093 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:113 Resp: 10206

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.1	121.7
192	20.1	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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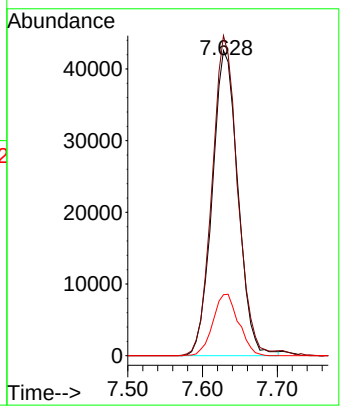
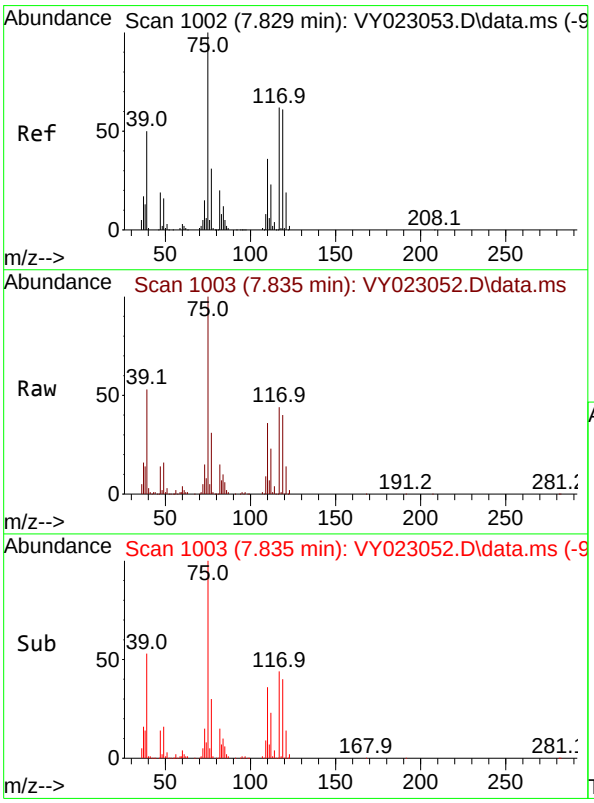
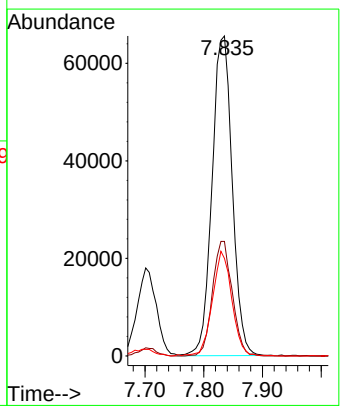


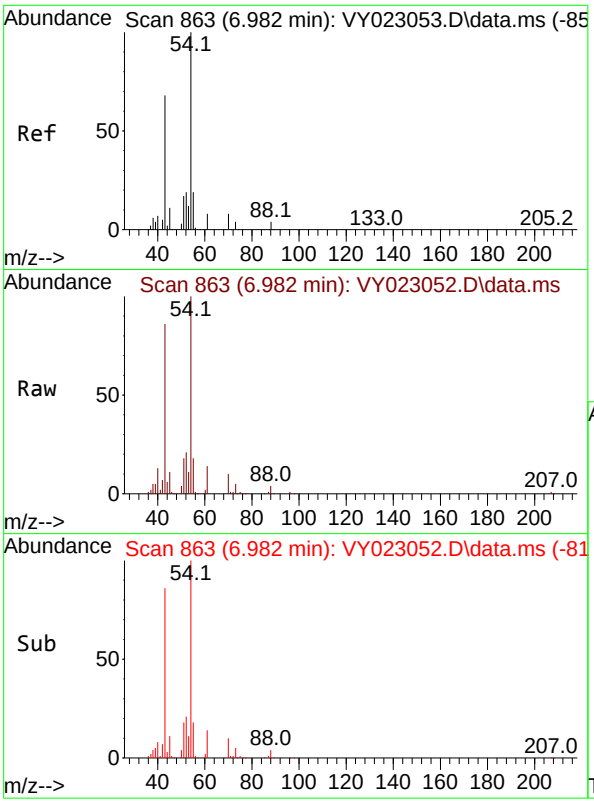


#36
1,1-Dichloropropene
Concen: 20.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 156617

Ion	Ratio	Lower	Upper
75	100		
110	35.1	18.1	54.4
77	31.6	24.6	37.0





#37
Ethyl Acetate
Concen: 20.944 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 6642

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.9	17.9
70	11.0	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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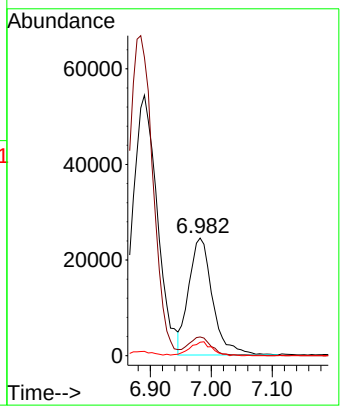
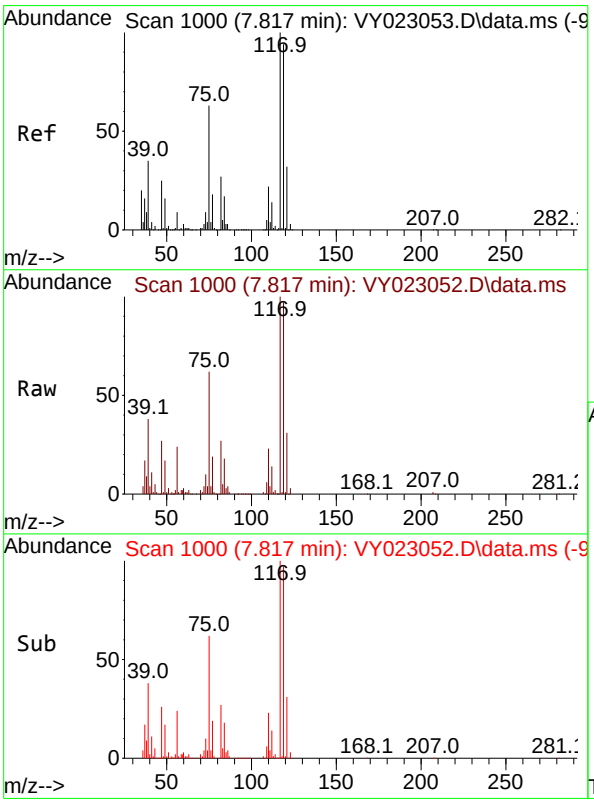
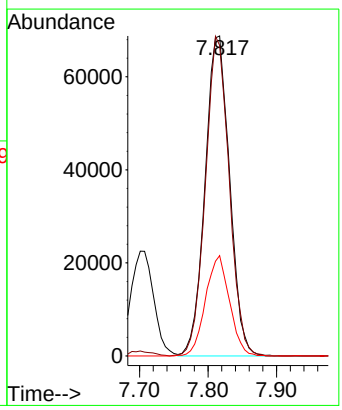


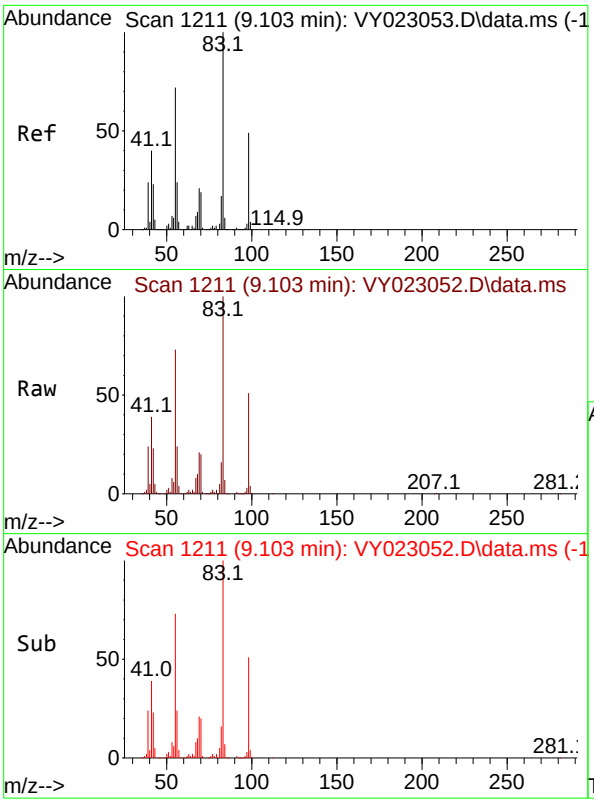


#38
Carbon Tetrachloride
Concen: 20.897 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 171344

Ion	Ratio	Lower	Upper
117	100		
119	97.0	75.6	113.4
121	31.3	25.8	38.8





#39
Methylcyclohexane
Concen: 20.680 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 20559

Ion	Ratio	Lower	Upper
83	100		
55	72.8	57.6	86.4
98	50.7	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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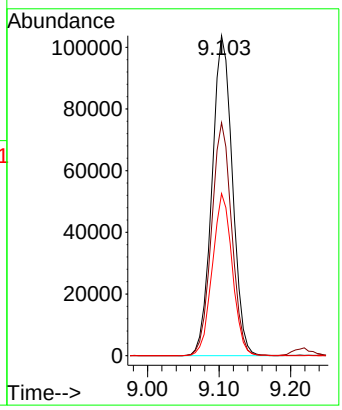
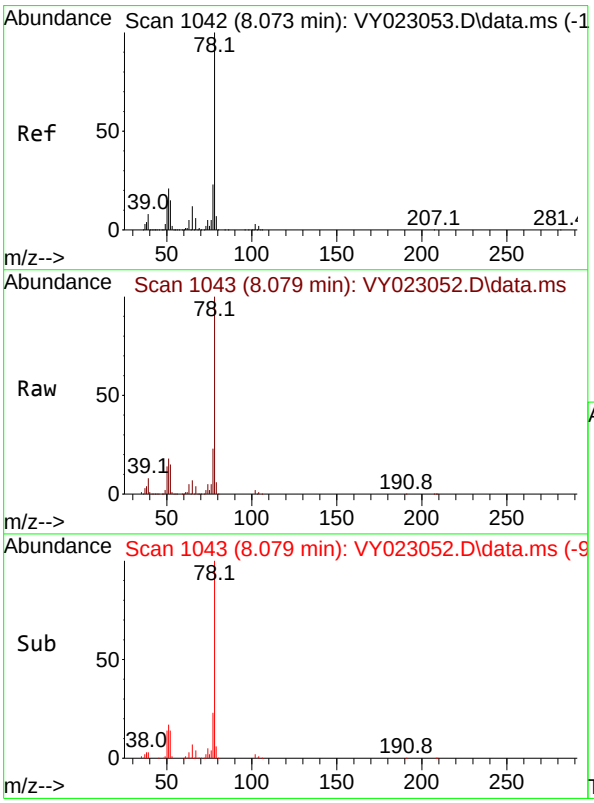
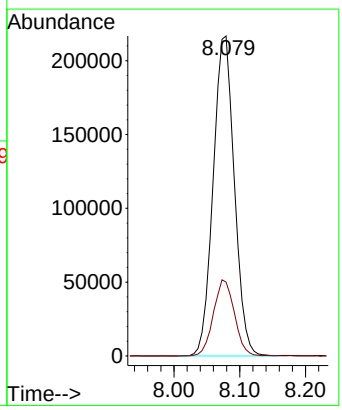


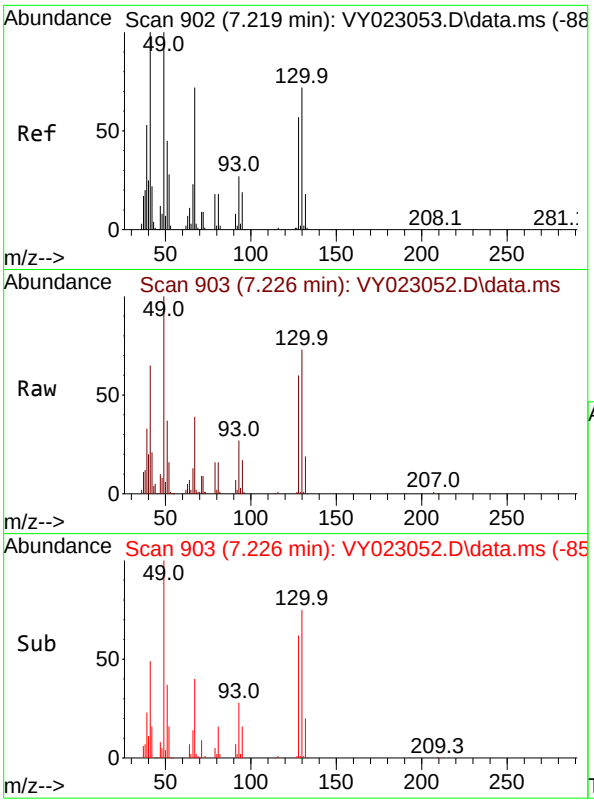


#40
Benzene
Concen: 20.871 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 78 Resp: 485631

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0

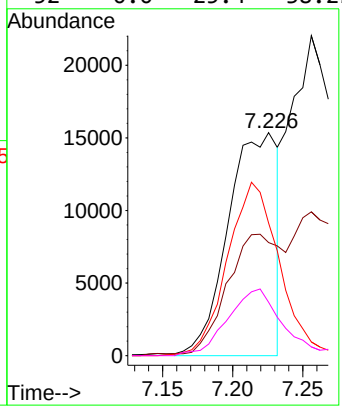




#41
Methacrylonitrile
Concen: 20.623 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 3778

Ion	Ratio	Lower	Upper
41	100		
39	62.3	43.4	65.2
67	0.0	63.6	95.4#
52	0.0	25.4	38.2#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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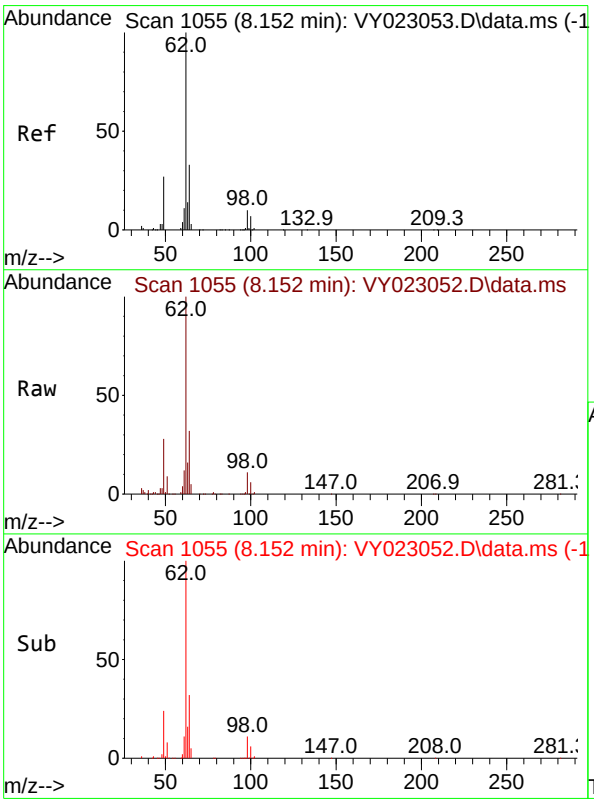
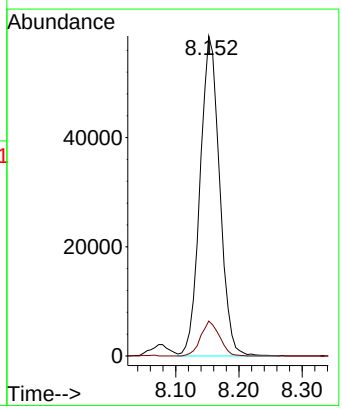
Supervised By :Semsettin Yesilyurt 08/14/2025

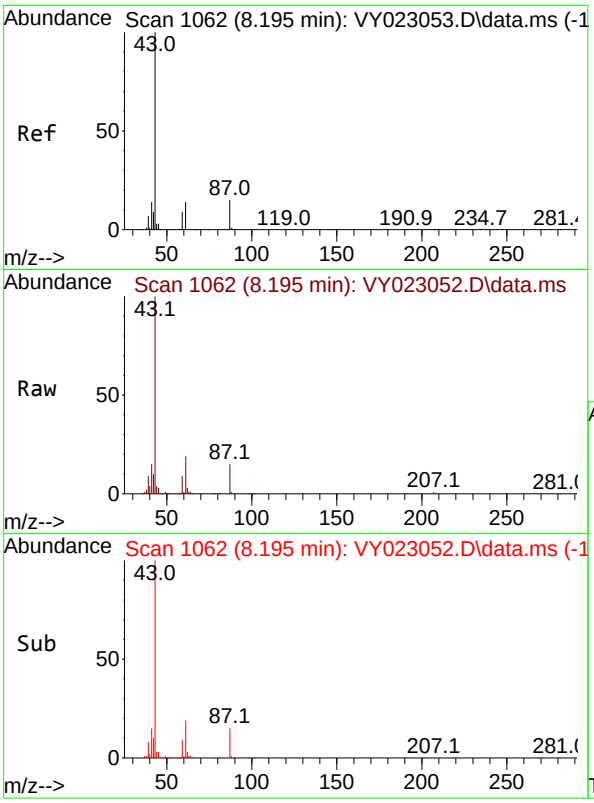


#42
1,2-Dichloroethane
Concen: 20.839 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 126111

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6





#43
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 13185

Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.4	24.6
87	14.7	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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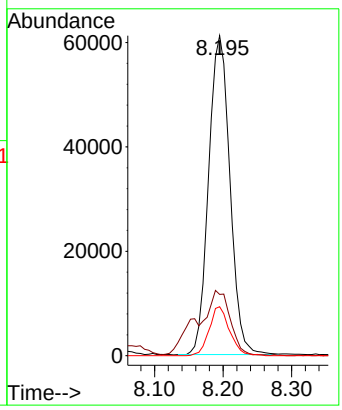
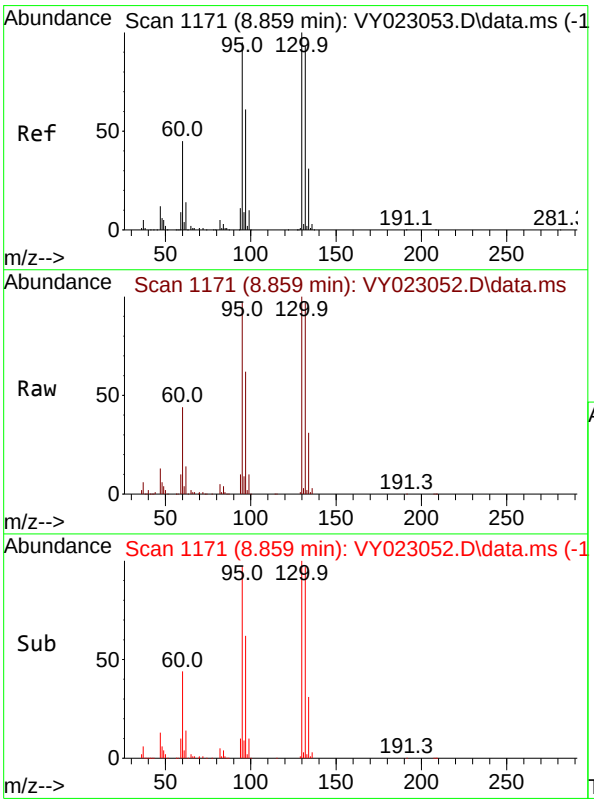
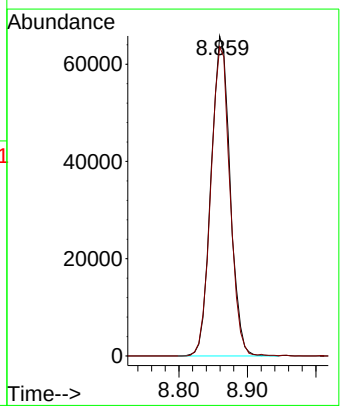


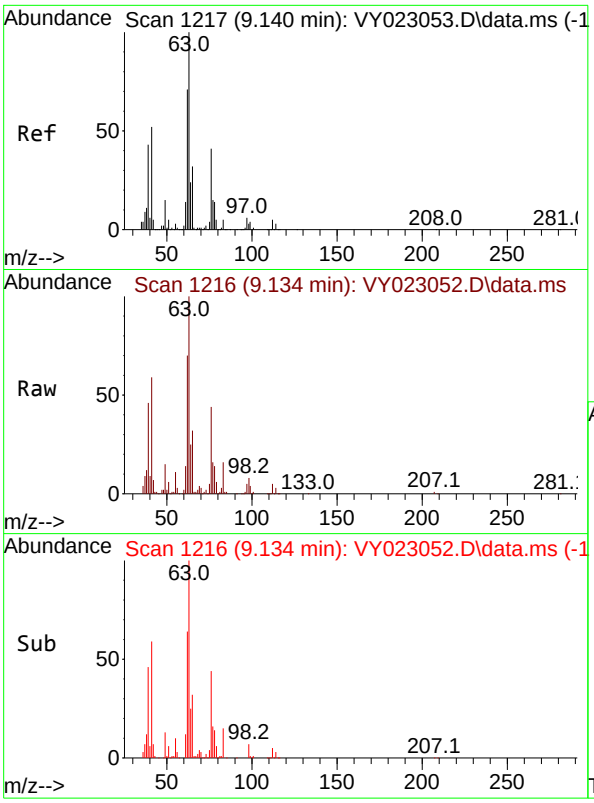


#44
Trichloroethene
Concen: 21.083 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:130 Resp: 126772

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	190.2





#45
1,2-Dichloropropane
Concen: 20.677 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 11069

Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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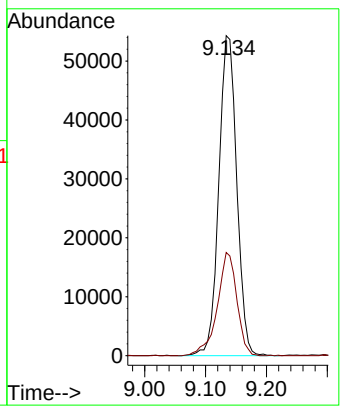
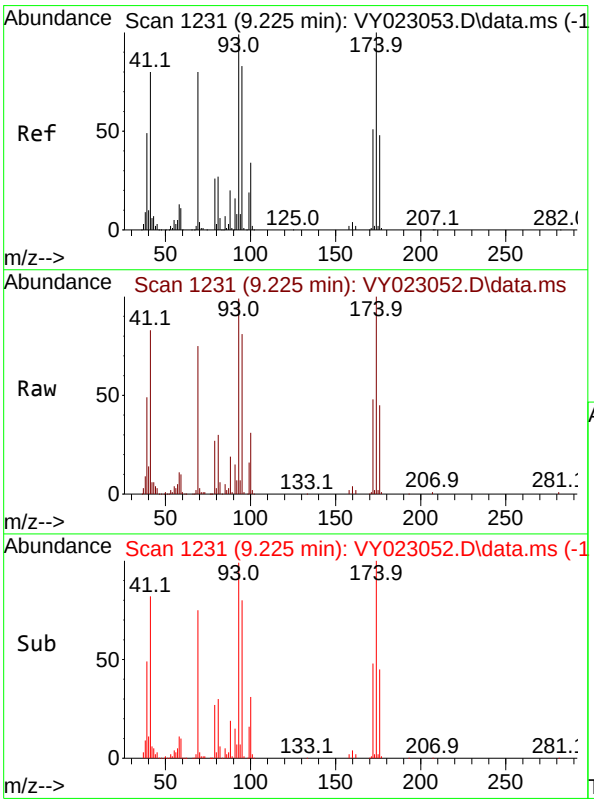
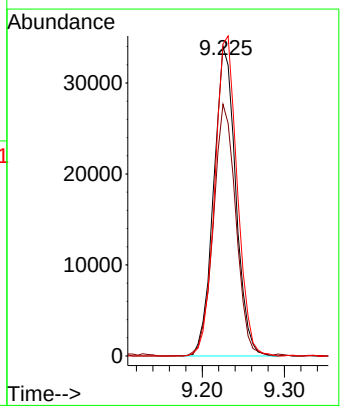


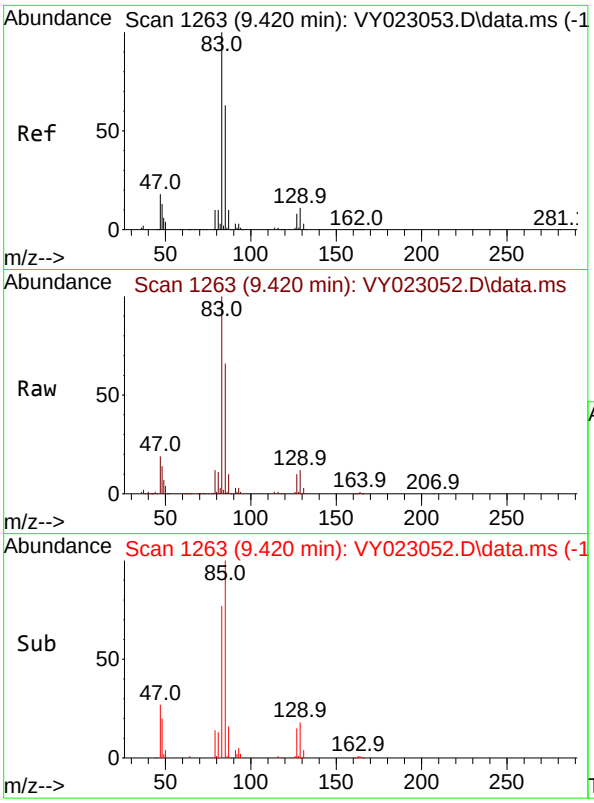


#46
Dibromomethane
Concen: 20.635 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 93 Resp: 63410

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.5	99.7
174	105.0	81.8	122.8

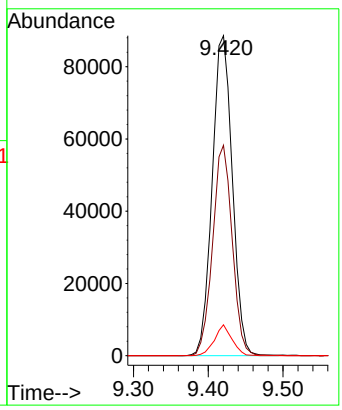




#47
Bromodichloromethane
Concen: 20.988 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 16595

Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.2	75.4
127	9.6	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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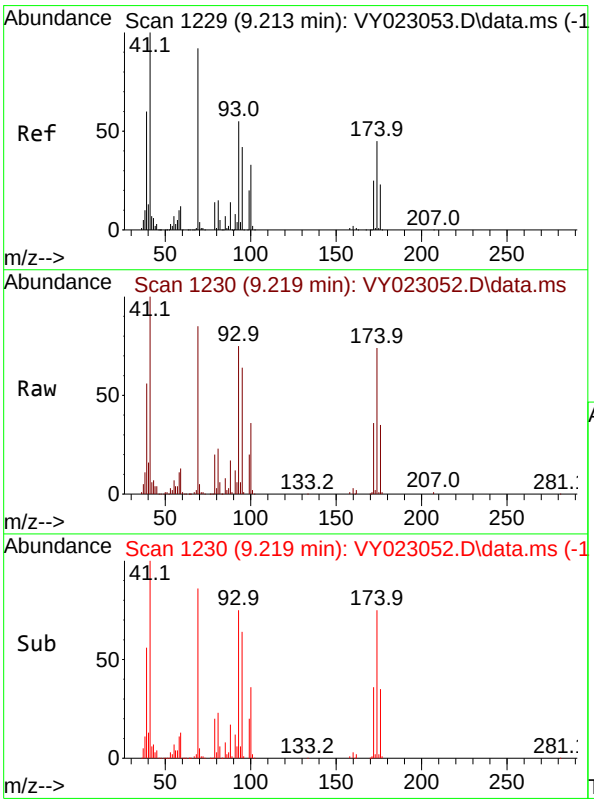
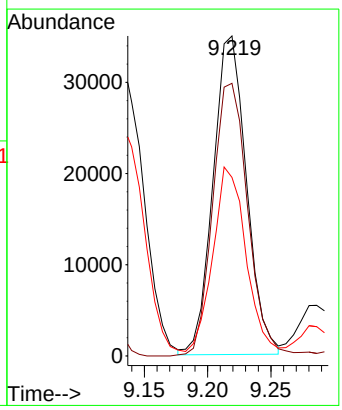
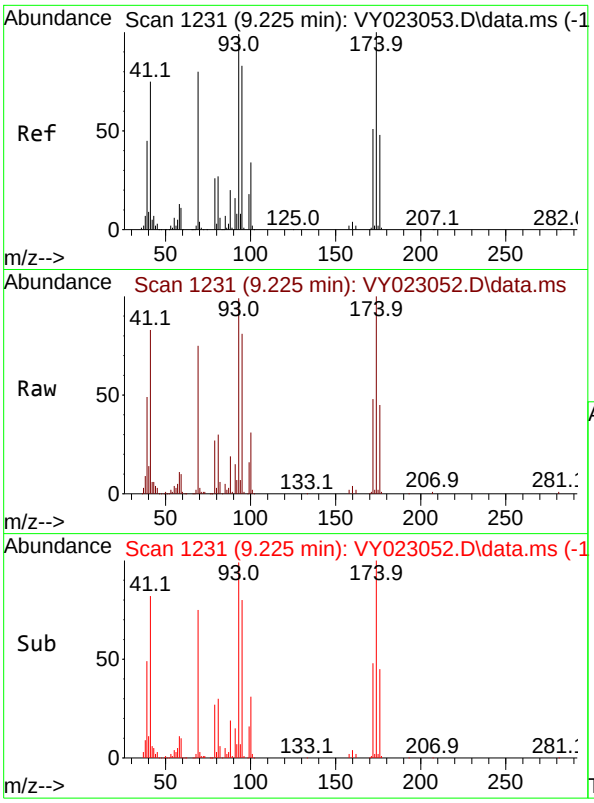


#48
Methyl methacrylate
Concen: 20.905 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 64120

Ion	Ratio	Lower	Upper
41	100		
69	89.9	73.2	109.8
39	57.0	47.0	70.4





#49
1,4-Dioxane
Concen: 411.480 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 88 Resp: 1482

Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.3	36.5
58	71.4	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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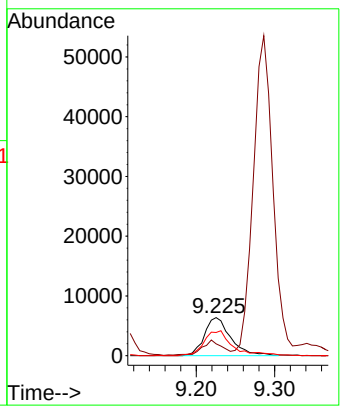
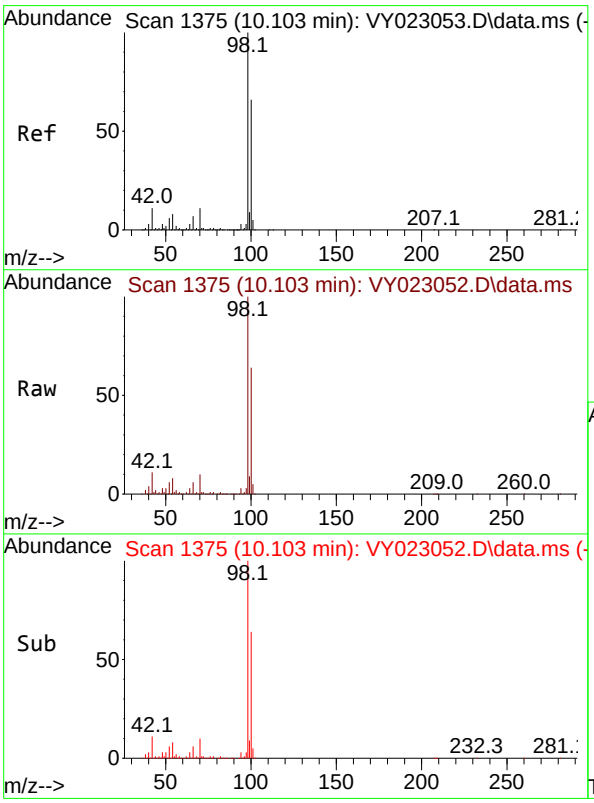
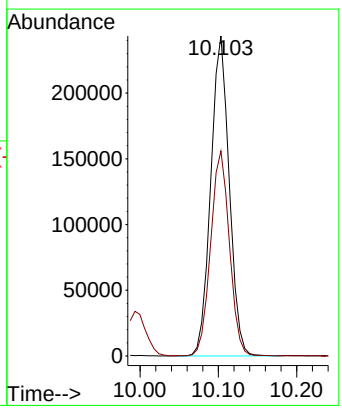


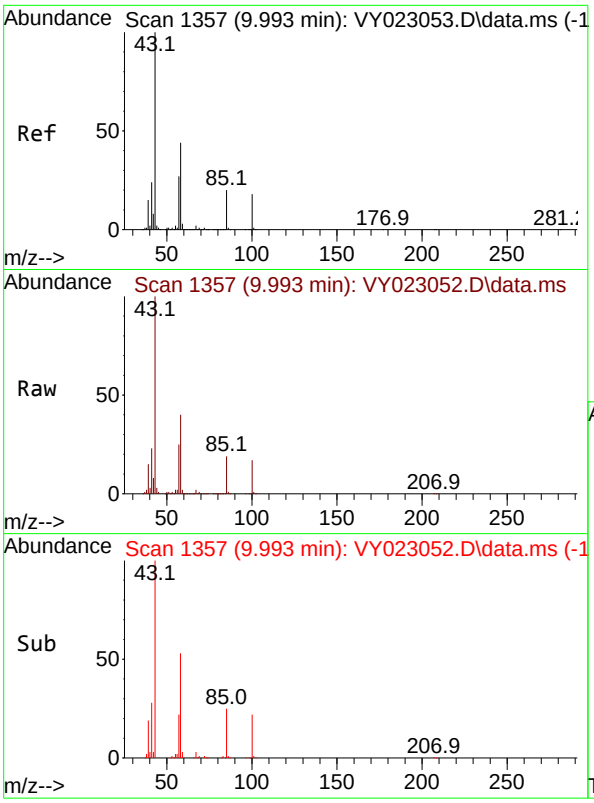


#50
Toluene-d8
Concen: 20.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 98 Resp: 398394

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 102.622 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 33929

Ion	Ratio	Lower	Upper
43	100		
58	41.6	33.5	50.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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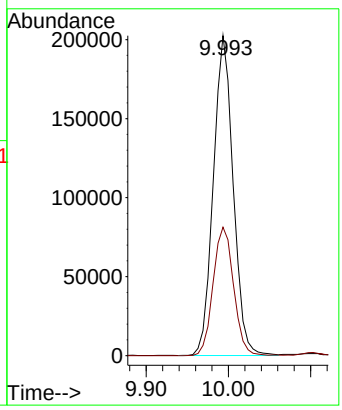
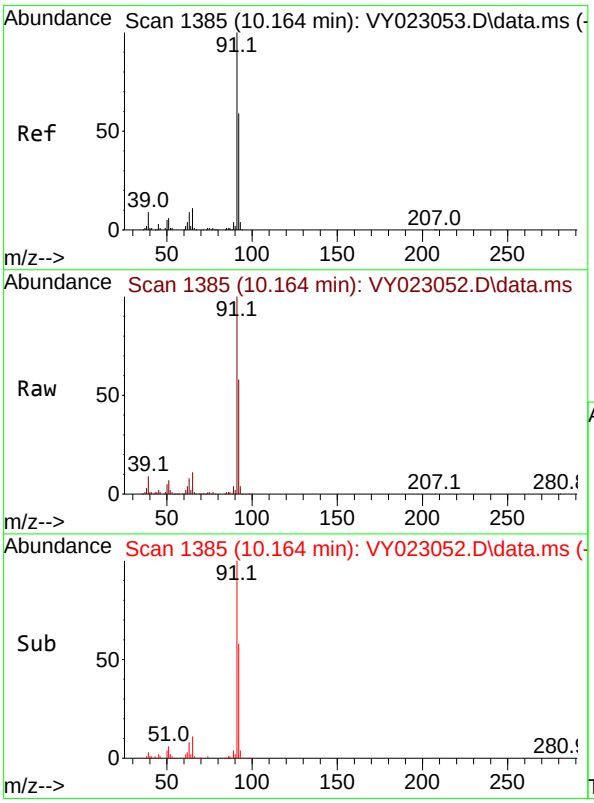
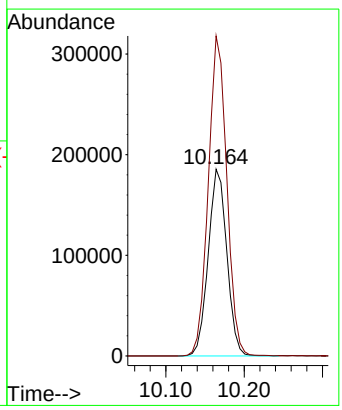


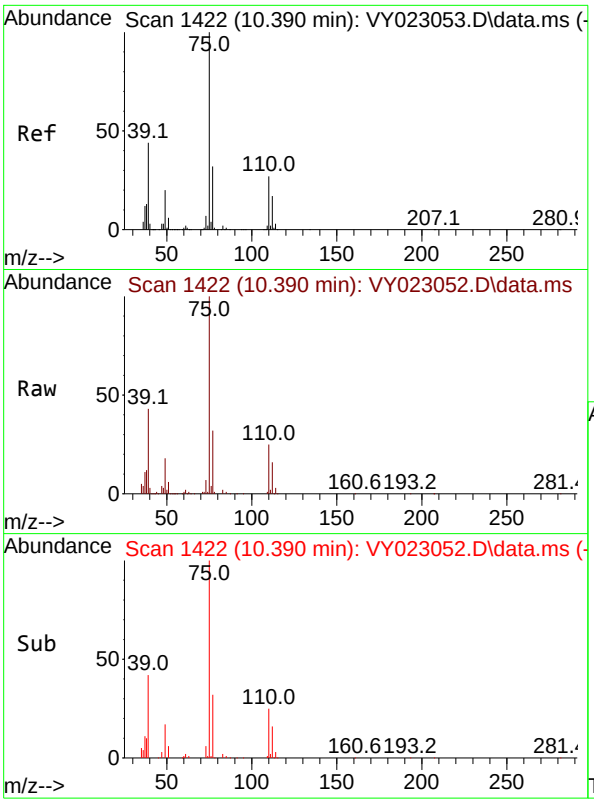


#52
Toluene
Concen: 20.719 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 92 Resp: 306193

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 20.627 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 14769

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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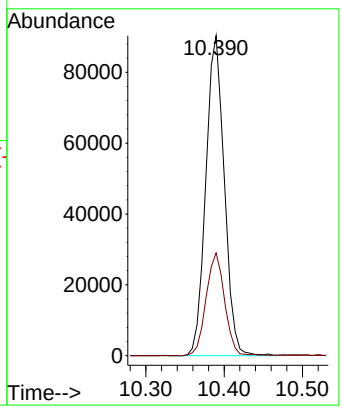
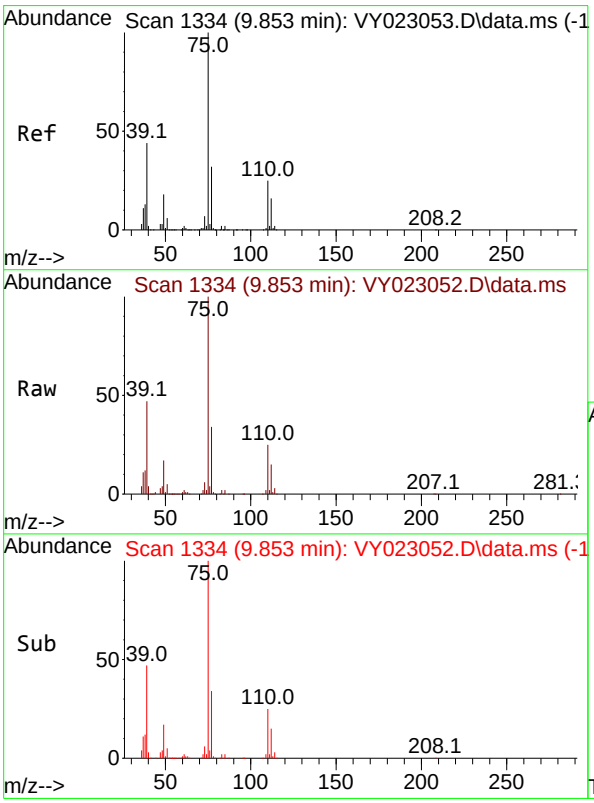
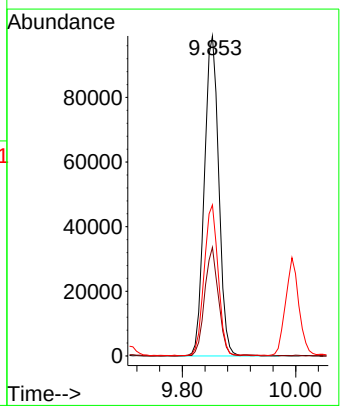


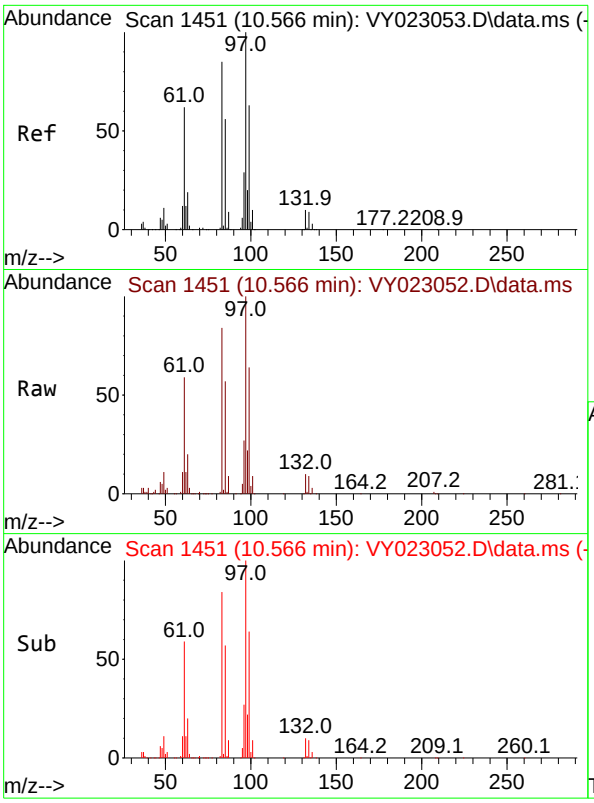


#54
cis-1,3-Dichloropropene
Concen: 20.580 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 174243

Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.4	38.0
39	47.1	35.6	53.4

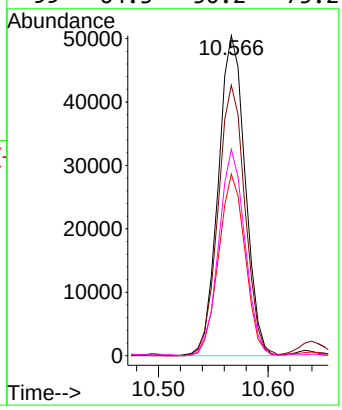




#55
1,1,2-Trichloroethane
Concen: 20.920 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 97 Resp: 8602

Ion	Ratio	Lower	Upper
97	100		
83	84.5	67.7	101.5
85	56.7	44.5	66.7
99	64.3	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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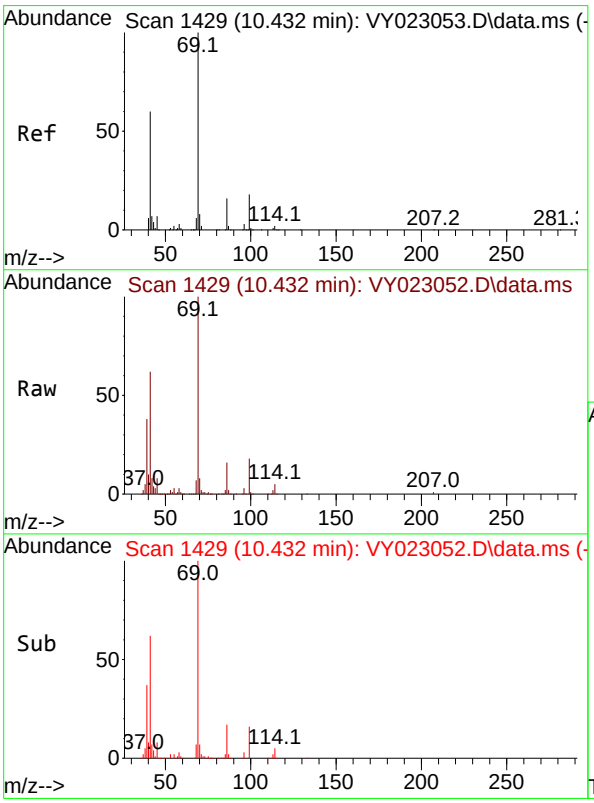
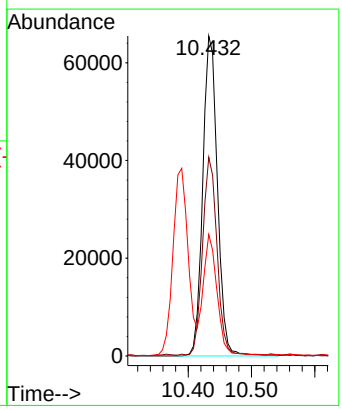
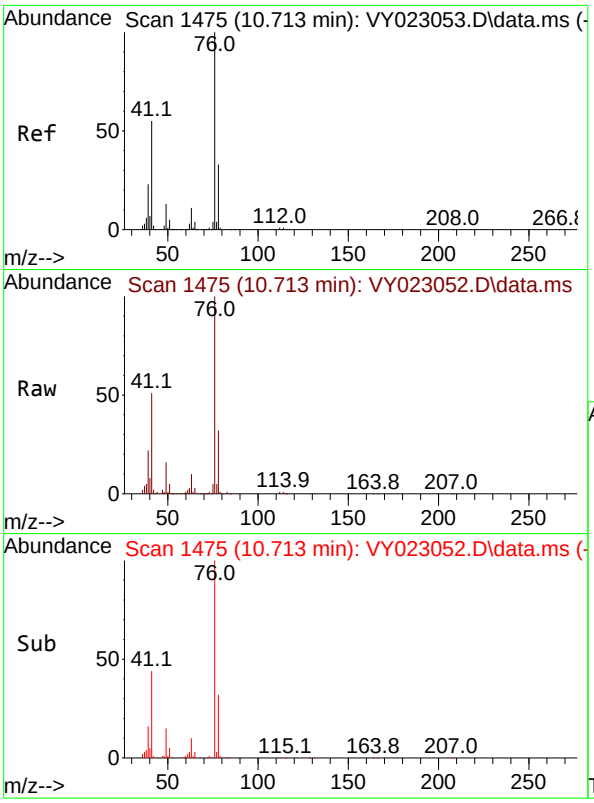


#56
Ethyl methacrylate
Concen: 20.111 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 69 Resp: 105816

Ion	Ratio	Lower	Upper
69	100		
41	61.2	48.6	72.8
39	34.7	27.0	40.4





#57
1,3-Dichloropropane
Concen: 20.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 76 Resp: 14562

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
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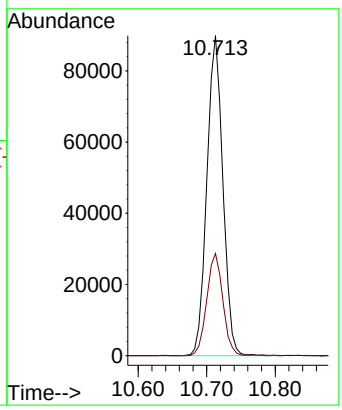
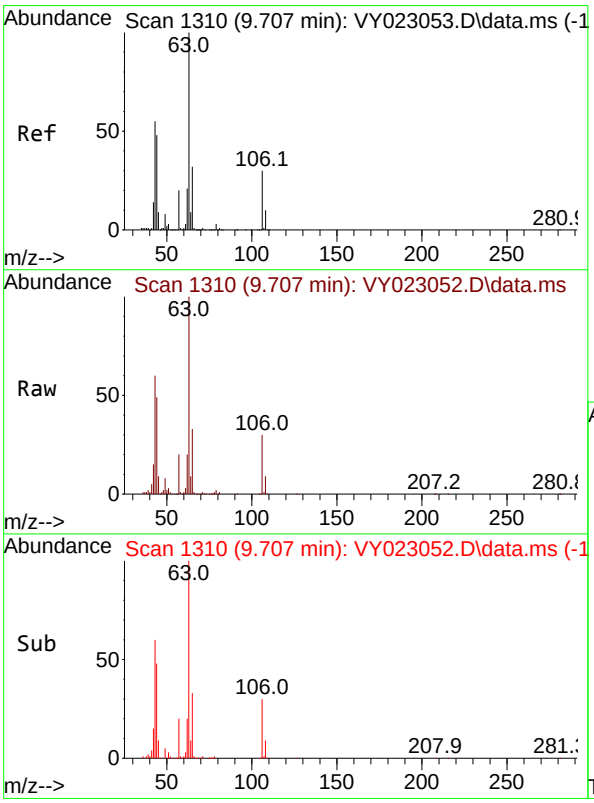
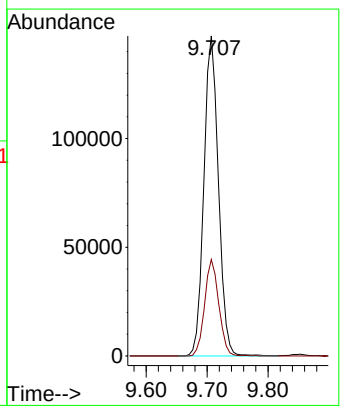


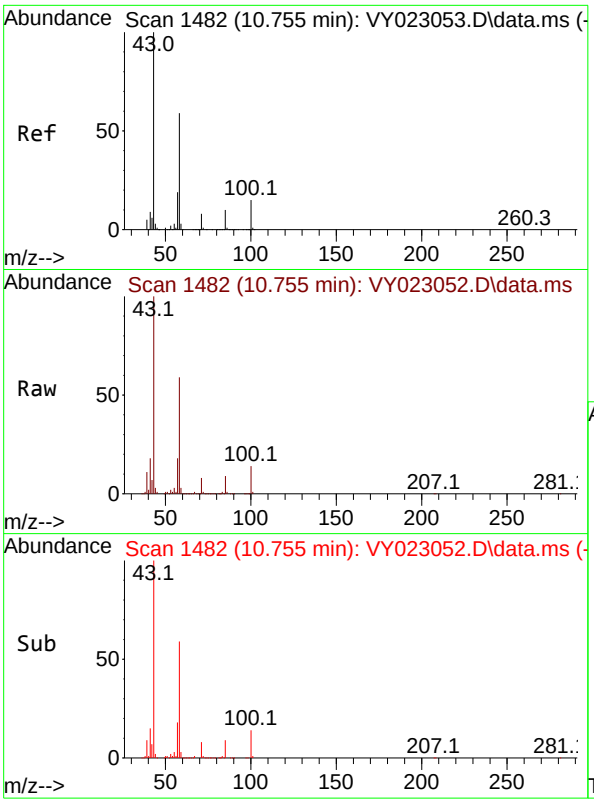


#58
2-Chloroethyl Vinyl ether
Concen: 98.450 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 244340

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.2	34.8





#59
2-Hexanone
Concen: 102.992 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 23187

Ion	Ratio	Lower	Upper
43	100		
58	58.1	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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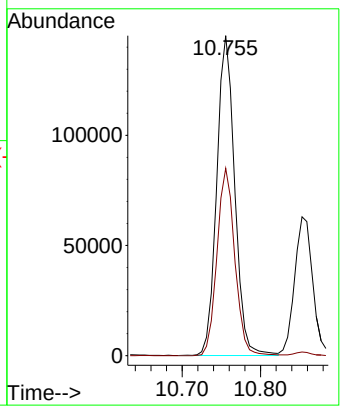
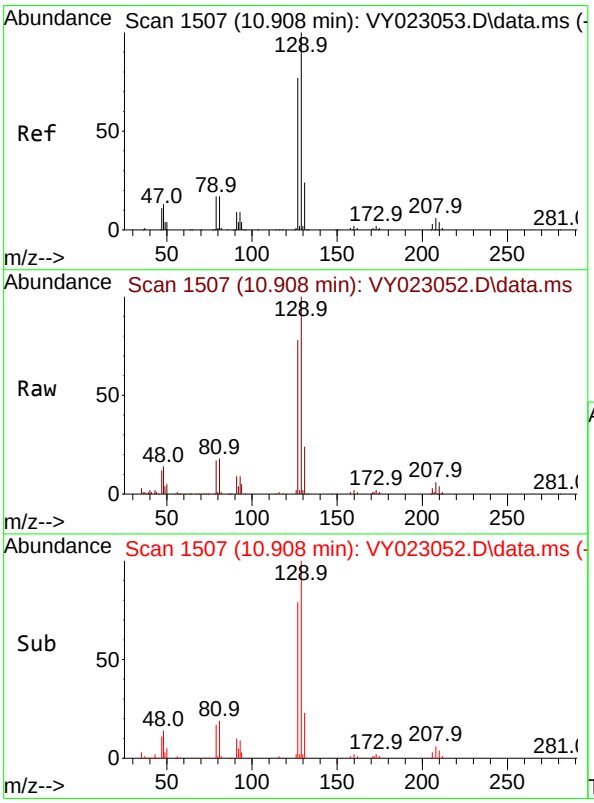
Supervised By :Semsettin Yesilyurt 08/14/2025

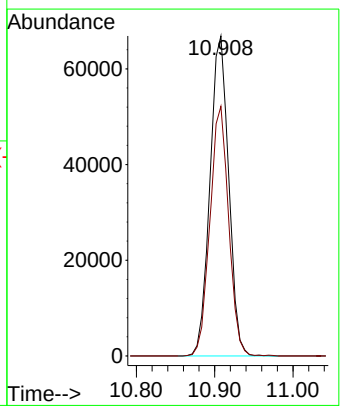


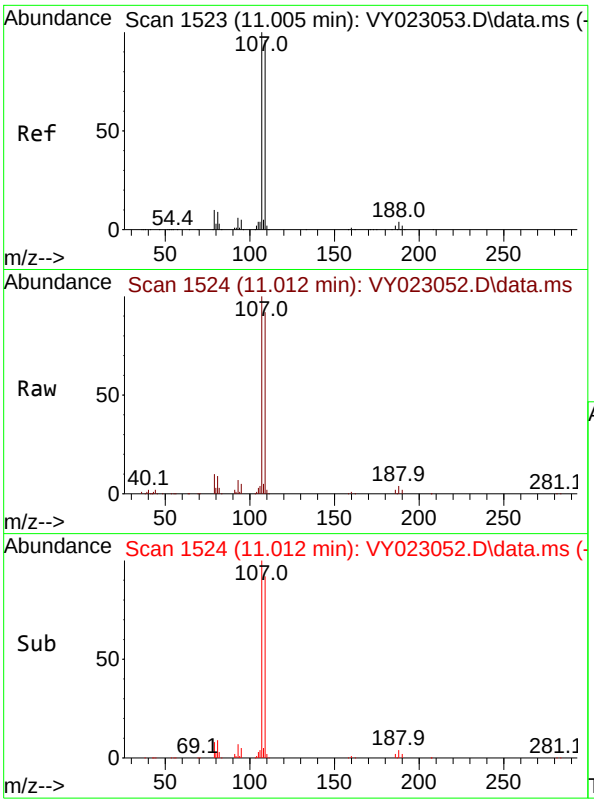


#60
Dibromochloromethane
Concen: 20.424 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:129 Resp: 110810

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 20.842 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:107 Resp: 8054

Ion	Ratio	Lower	Upper
107	100		
109	91.5	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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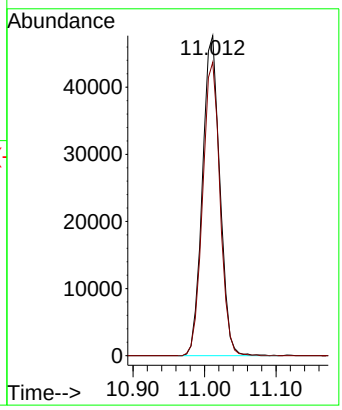
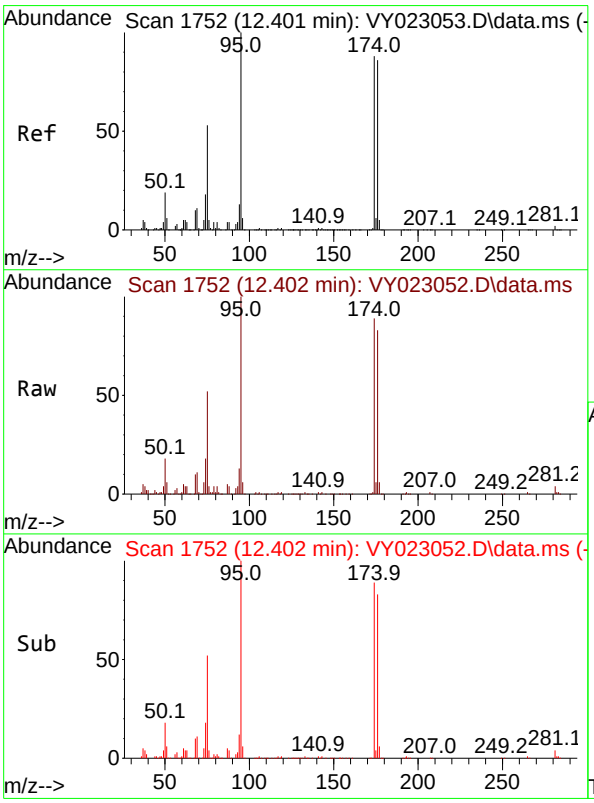
Supervised By :Semsettin Yesilyurt 08/14/2025

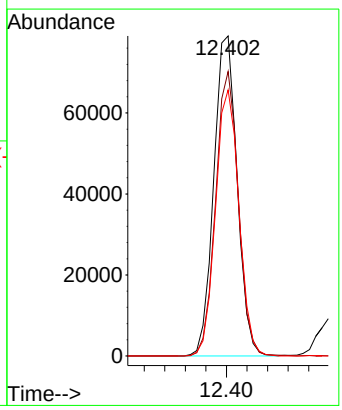


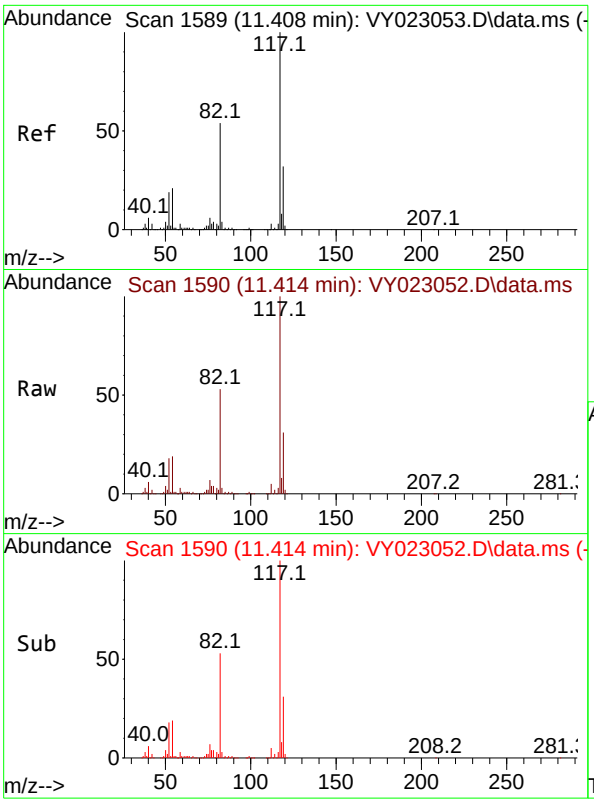


#62
4-Bromofluorobenzene
Concen: 19.503 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 95 Resp: 124467

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	171.6
176	83.3	0.0	167.6

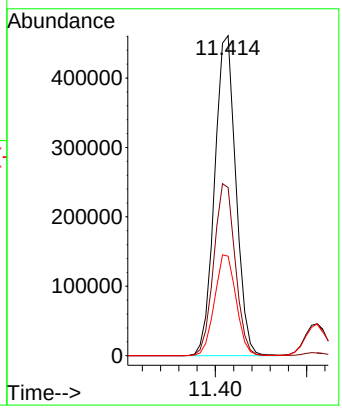




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 74548

Ion	Ratio	Lower	Upper
117	100		
82	52.5	43.4	65.0
119	31.1	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
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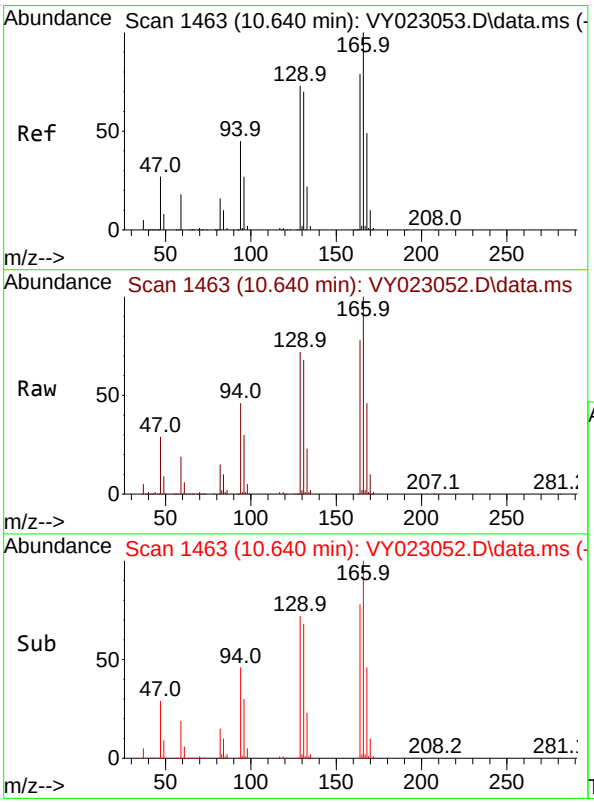
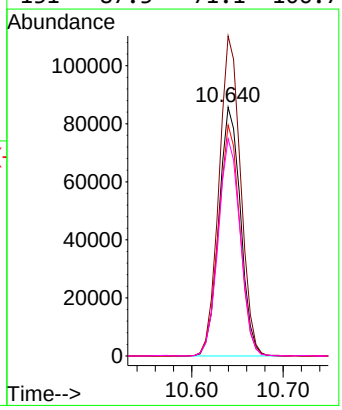
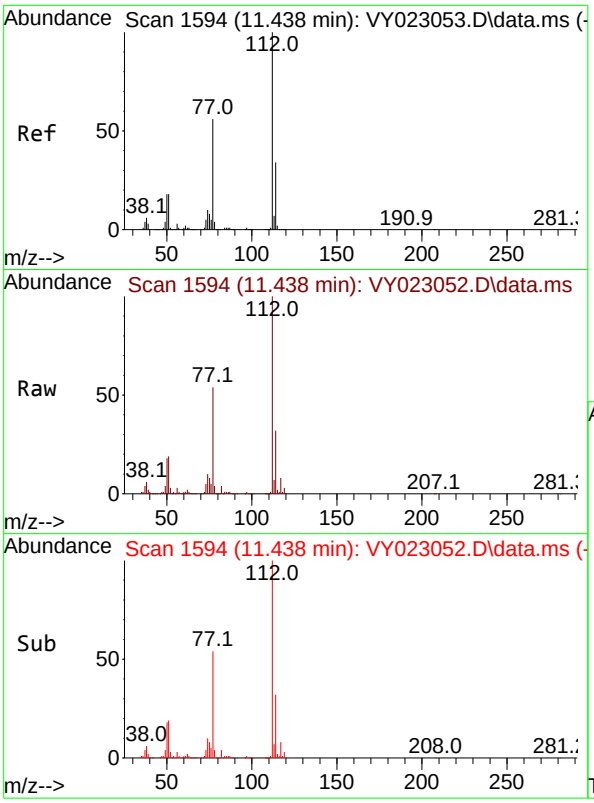


#64
Tetrachloroethene
Concen: 21.273 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:164 Resp: 141609

Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.1	151.7
129	92.9	74.0	111.0
131	87.3	71.1	106.7

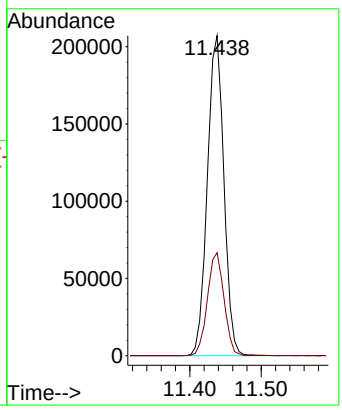




#65
Chlorobenzene
Concen: 20.690 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:112 Resp: 33270

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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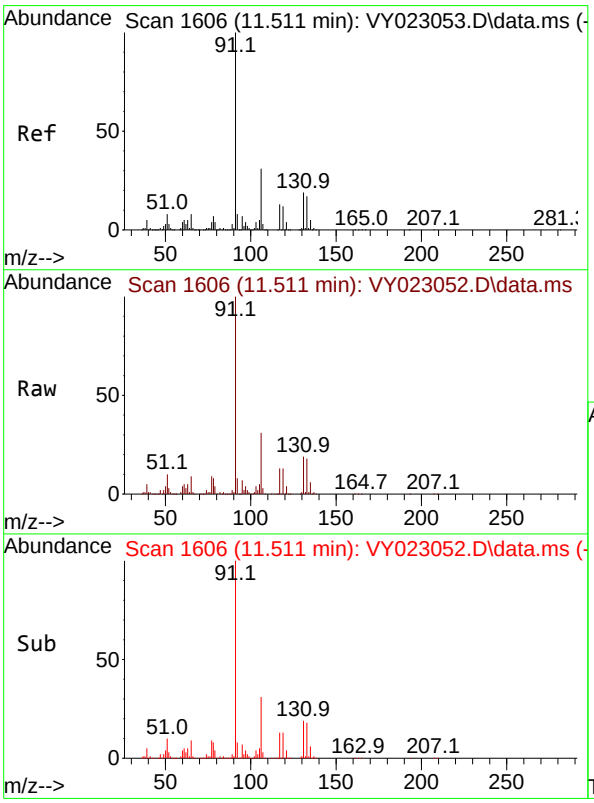
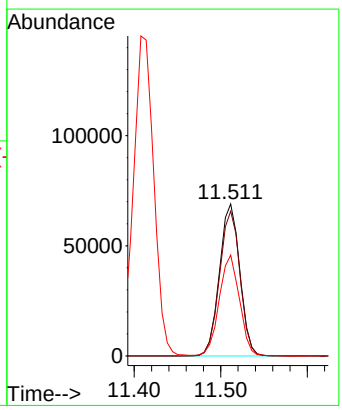
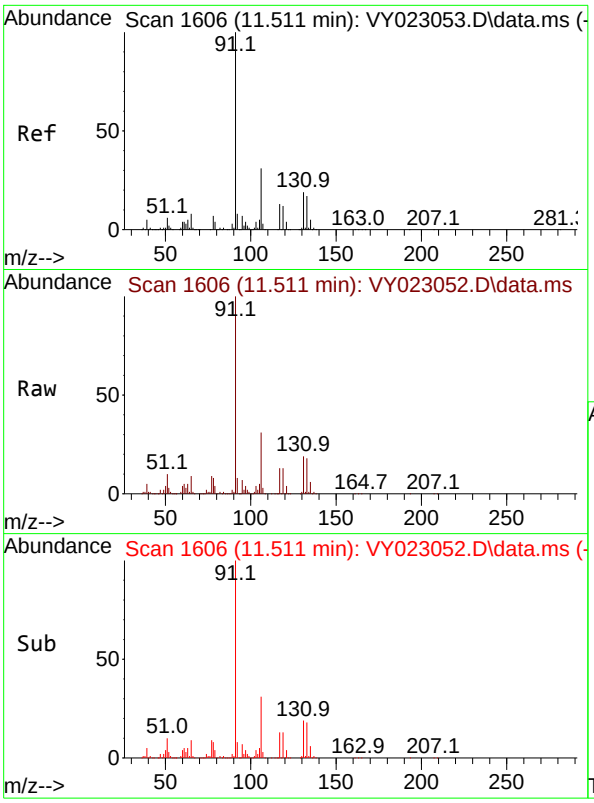


#66
1,1,1,2-Tetrachloroethane
Concen: 20.647 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:131 Resp: 112677

Ion	Ratio	Lower	Upper
131	100		
133	95.8	46.9	140.6
119	66.2	33.2	99.6





#67
Ethyl Benzene
Concen: 20.412 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 5648

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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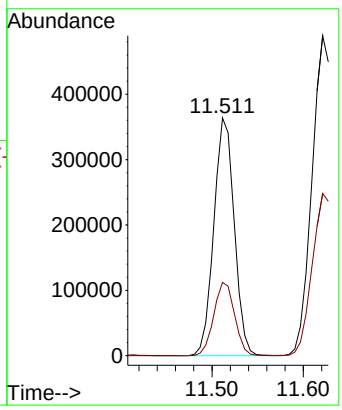
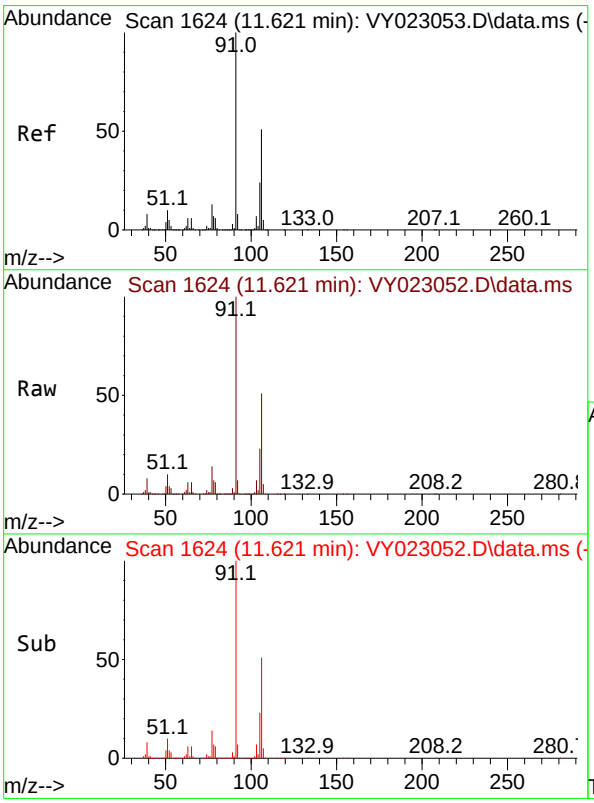
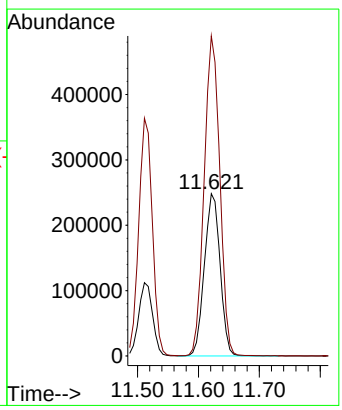


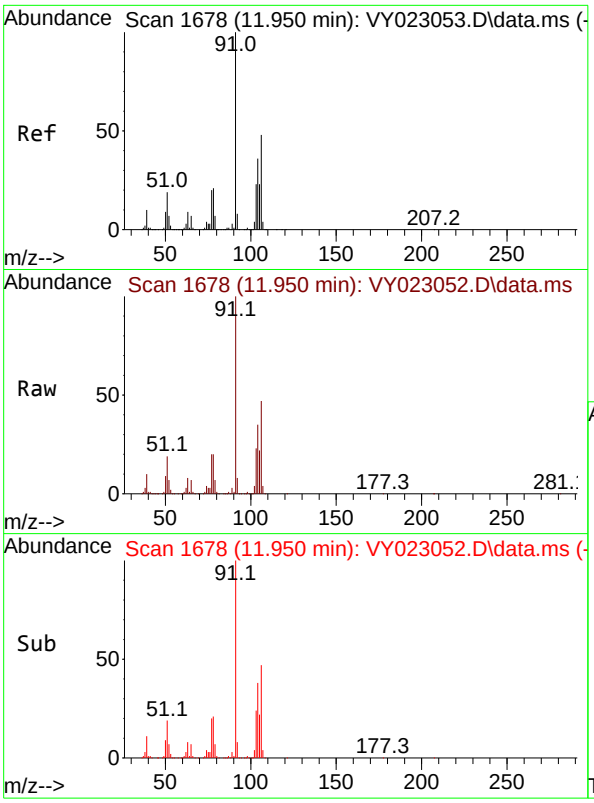


#68
m/p-Xylenes
Concen: 41.115 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:106 Resp: 444361

Ion	Ratio	Lower	Upper
106	100		
91	195.9	158.6	238.0





#69
o-Xylene
Concen: 20.513 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:106 Resp: 20763

Ion	Ratio	Lower	Upper
106	100		
91	208.2	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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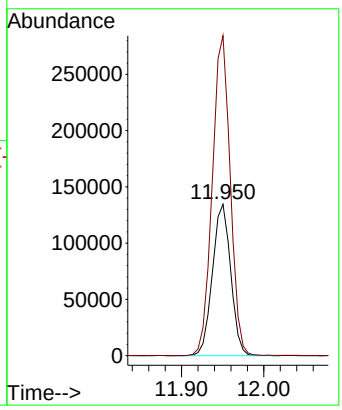
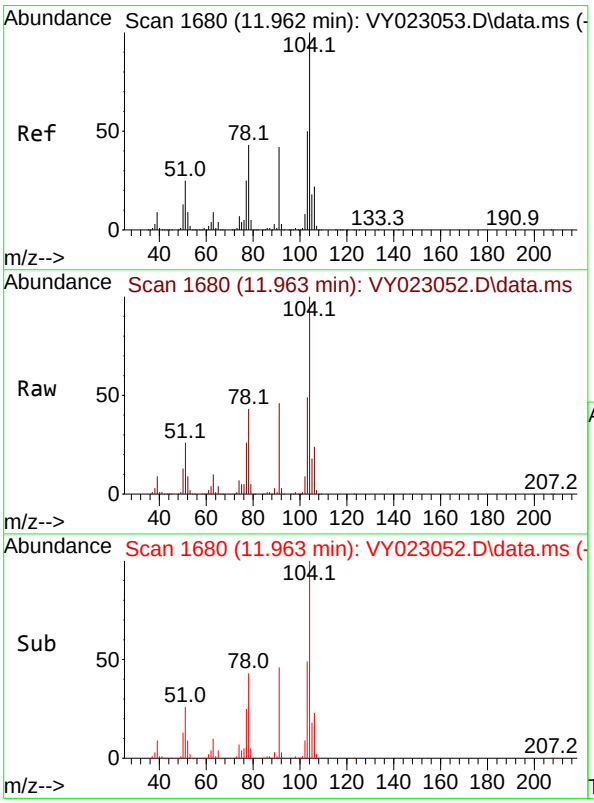
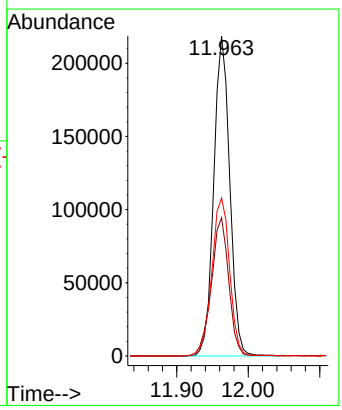


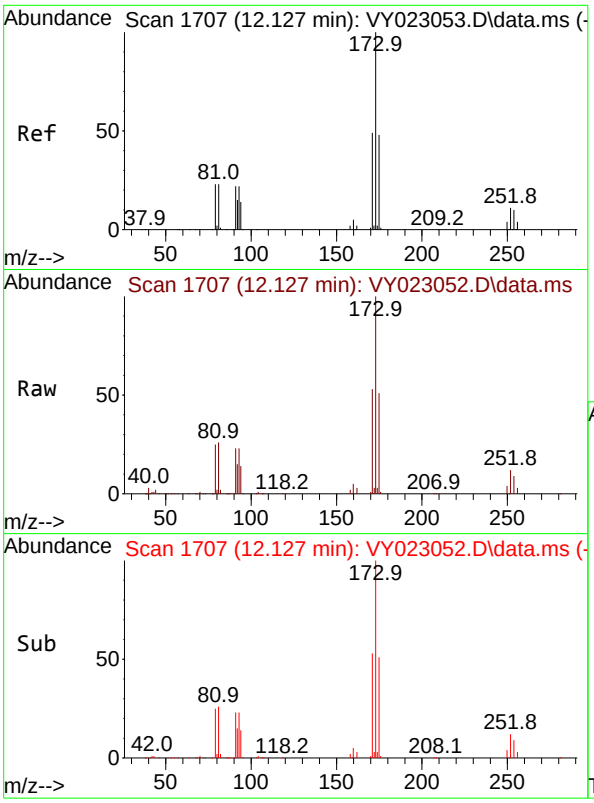


#70
Styrene
Concen: 20.532 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:104 Resp: 339891

Ion	Ratio	Lower	Upper
104	100		
78	47.0	38.5	57.7
103	54.9	43.7	65.5

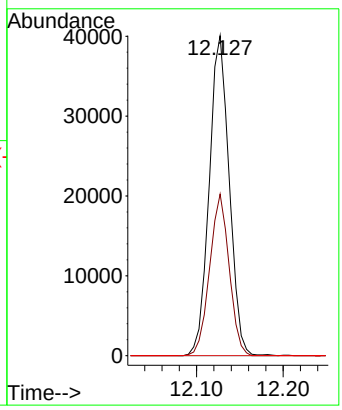




#71
Bromoform
Concen: 20.151 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:173 Resp: 6427

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.9	71.7
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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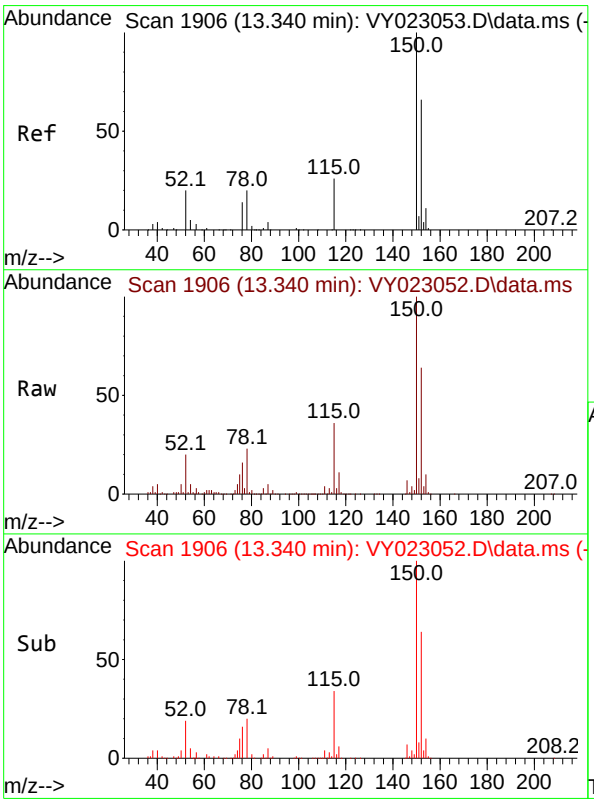
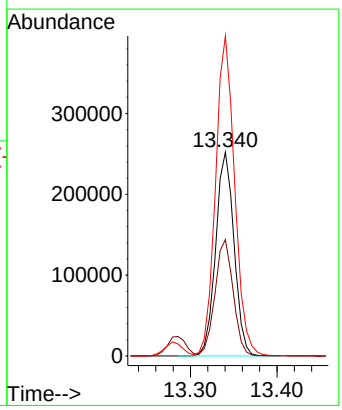
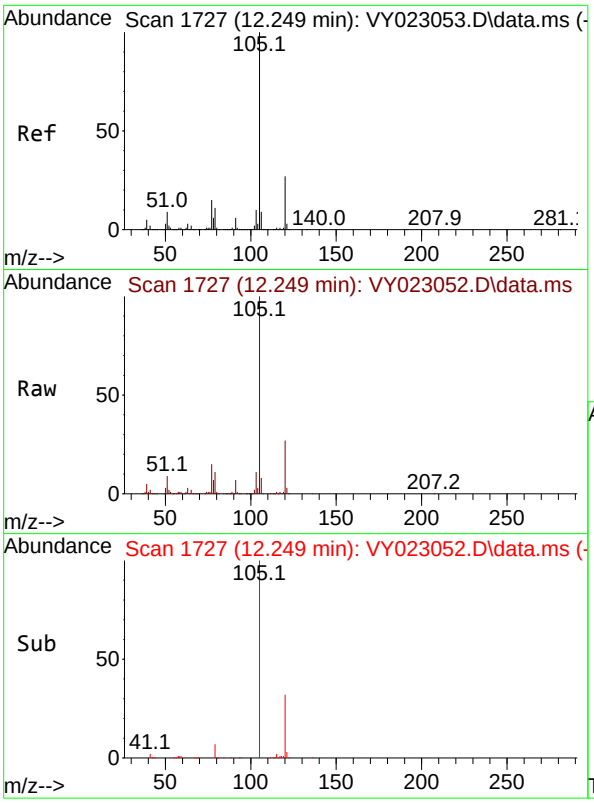


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:152 Resp: 370932

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	163.6	0.0	348.0

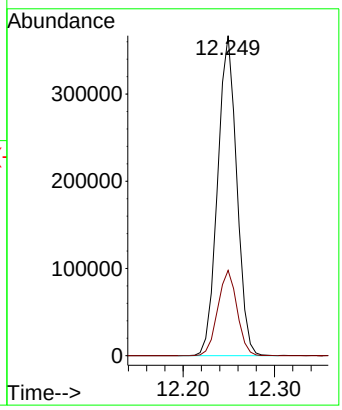




#73
Isopropylbenzene
Concen: 20.413 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 53442

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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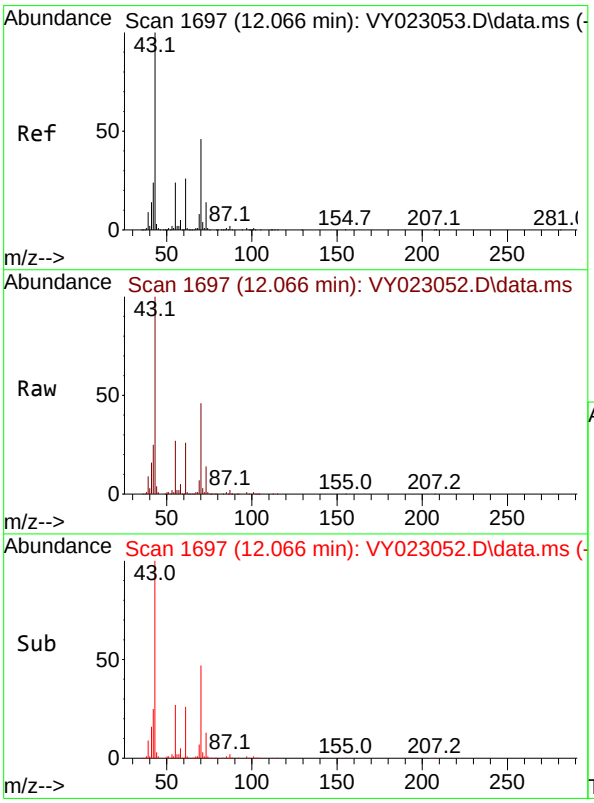
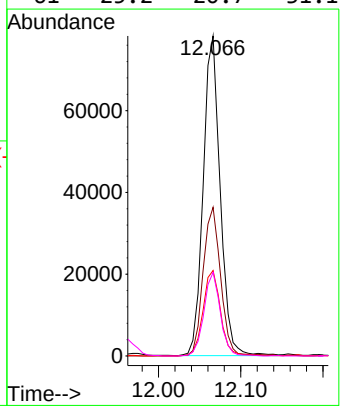
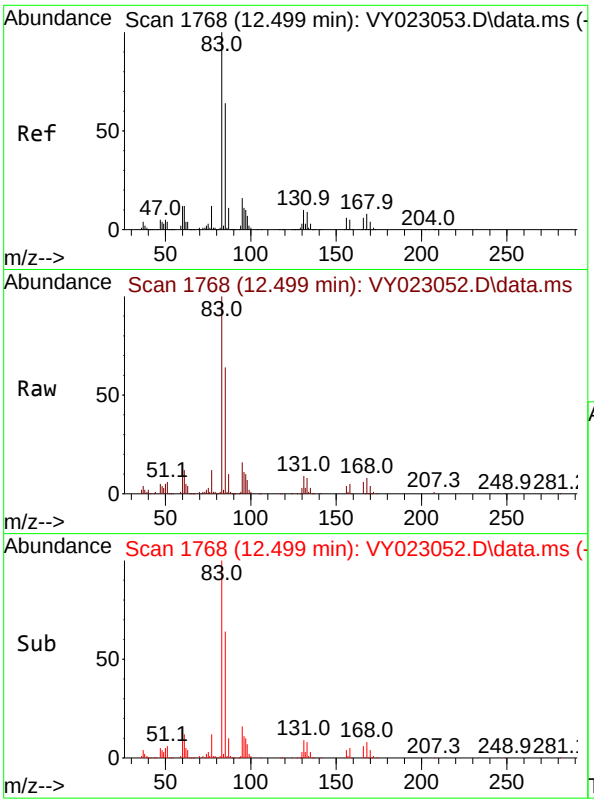


#74
N-amyl acetate
Concen: 20.227 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 112297

Ion	Ratio	Lower	Upper
43	100		
70	48.1	37.5	56.3
55	27.7	20.7	31.1
61	25.2	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 20.085 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 8978

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	63.8	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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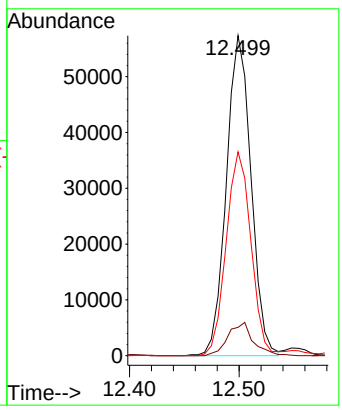
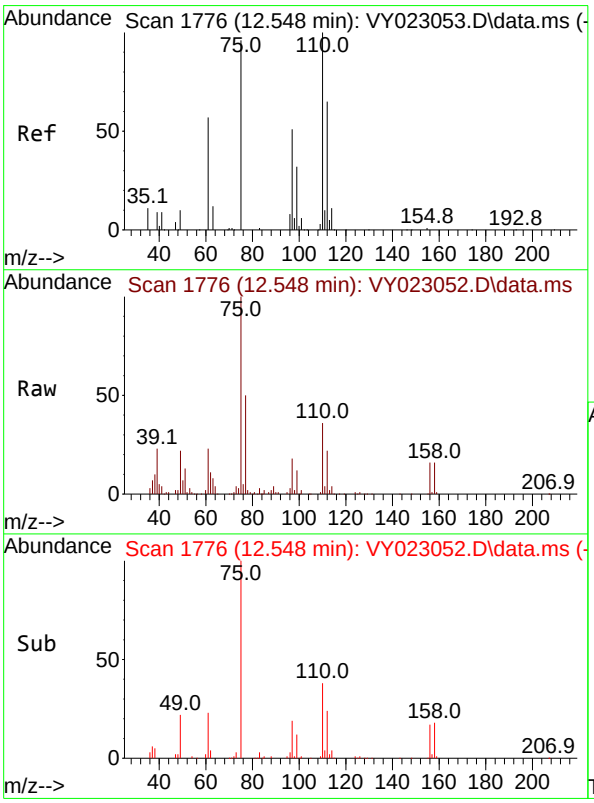
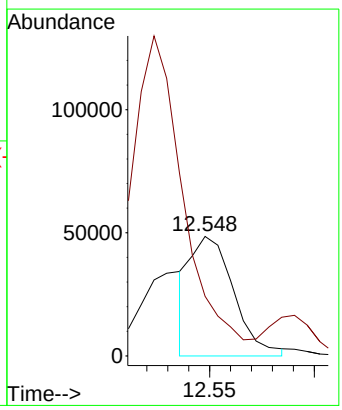


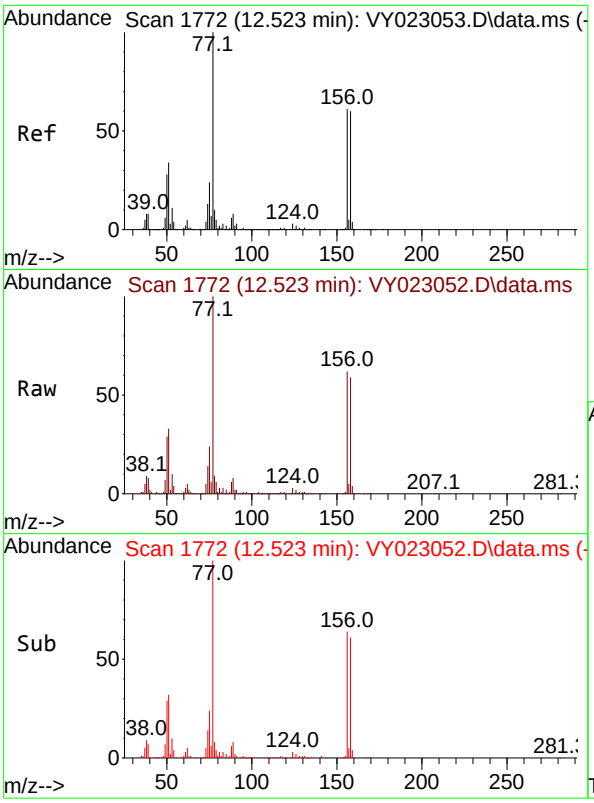


#76
1,2,3-Trichloropropane
Concen: 19.560 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 70070

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

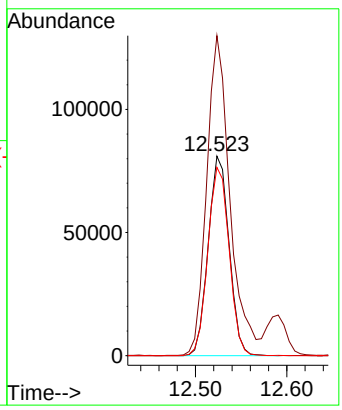




#77
Bromobenzene
Concen: 20.574 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:156 Resp: 12850

Ion	Ratio	Lower	Upper
156	100		
77	177.5	88.1	264.4
158	96.2	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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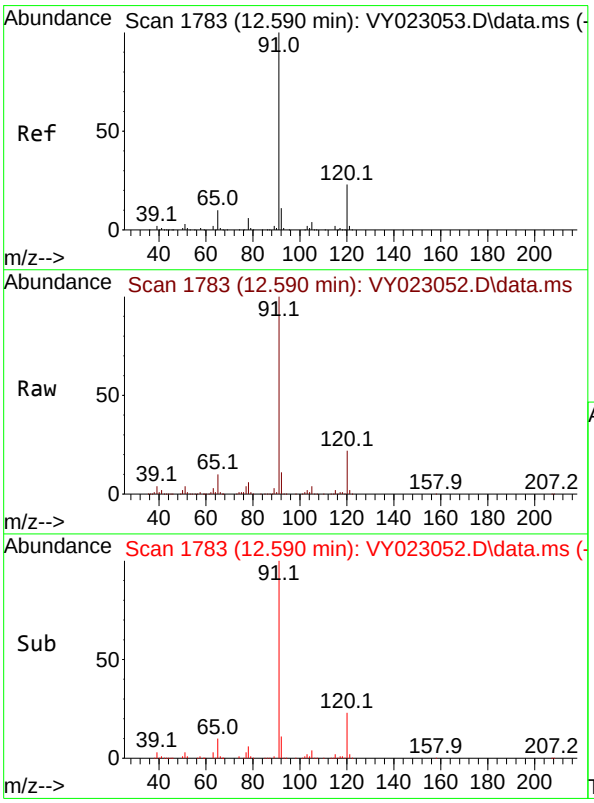
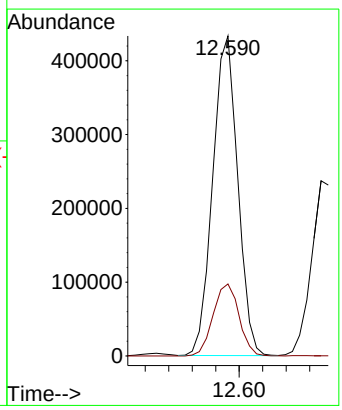
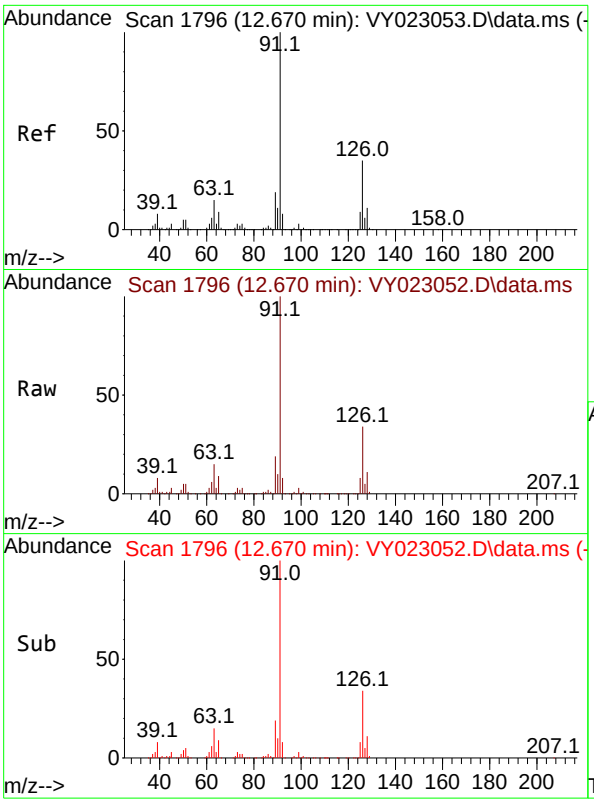


#78
n-propylbenzene
Concen: 20.550 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 640528

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.5





#79
2-Chlorotoluene
Concen: 20.471 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 36557

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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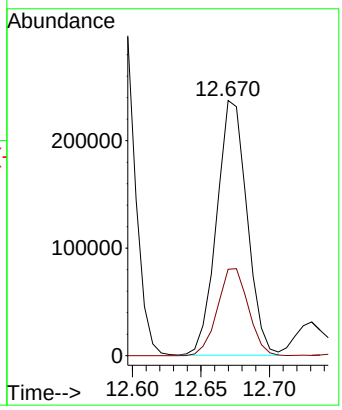
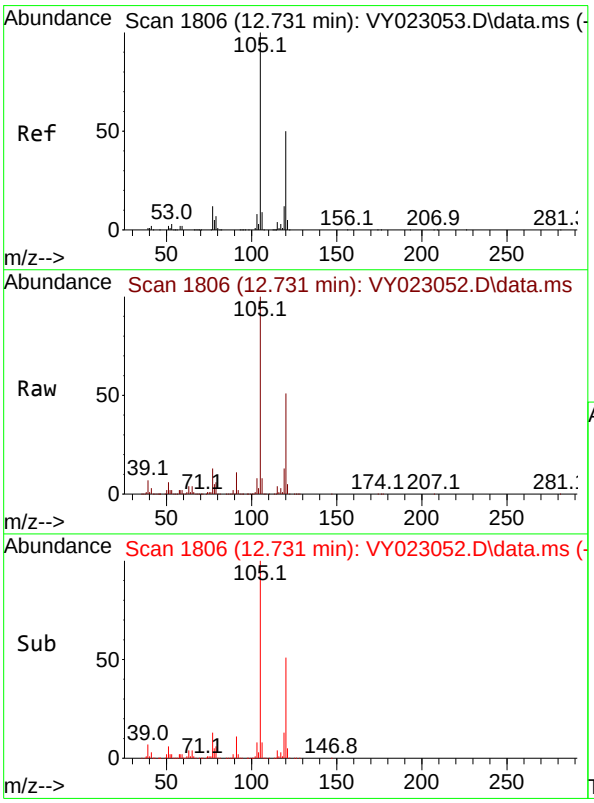
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

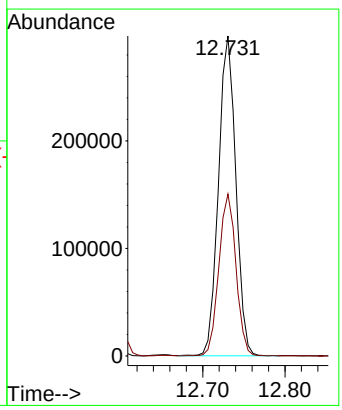


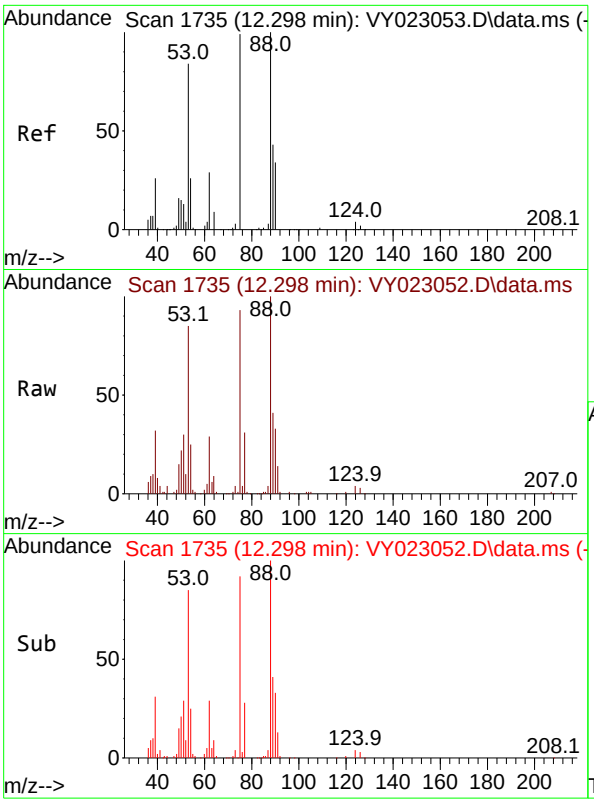


#80
1,3,5-Trimethylbenzene
Concen: 20.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 435074

Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 20.389 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 3015

Ion	Ratio	Lower	Upper
75	100		
53	91.7	70.8	106.2
89	46.2	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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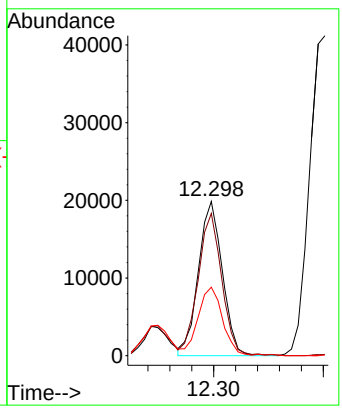
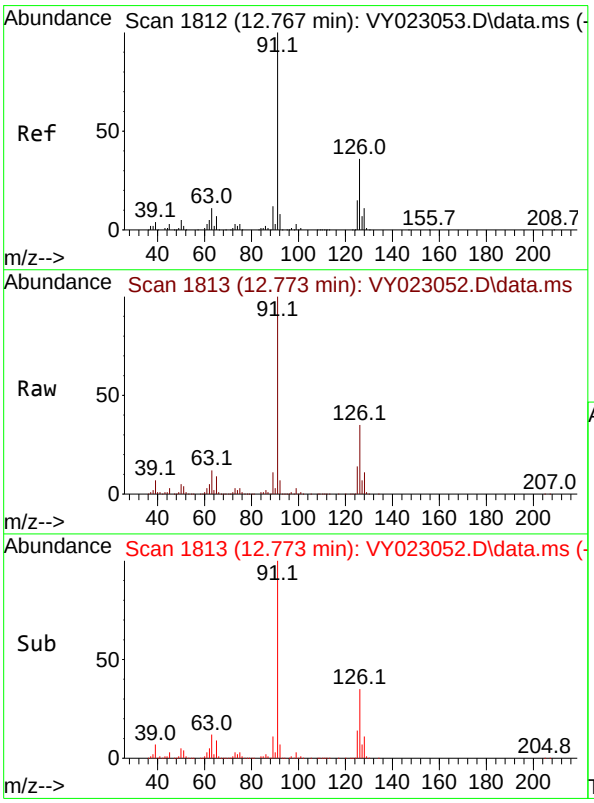
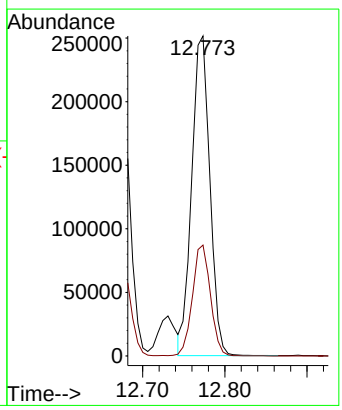


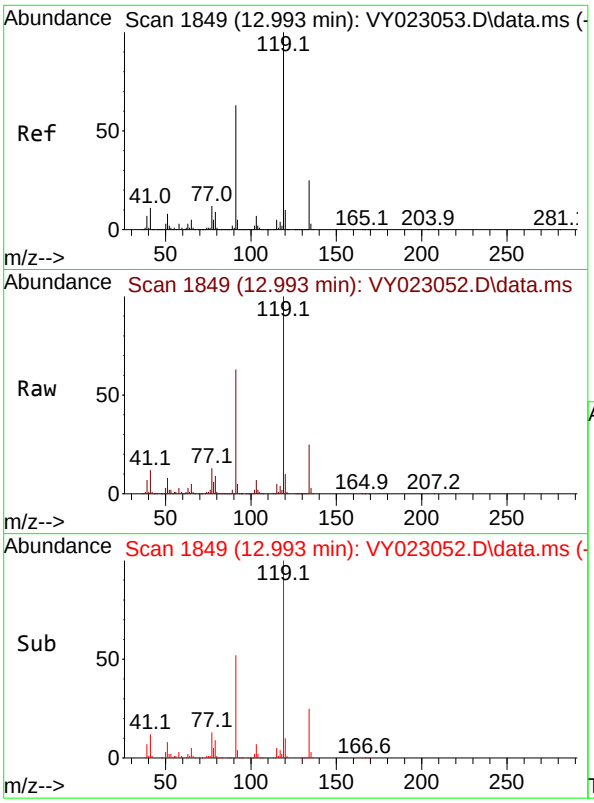


#82
4-Chlorotoluene
Concen: 20.822 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 385755

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	52.0





#83
tert-Butylbenzene
Concen: 20.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:119 Resp: 38962

Ion	Ratio	Lower	Upper
119	100		
91	63.4	31.6	94.8
134	26.1	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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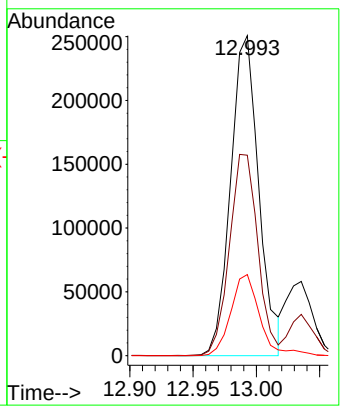
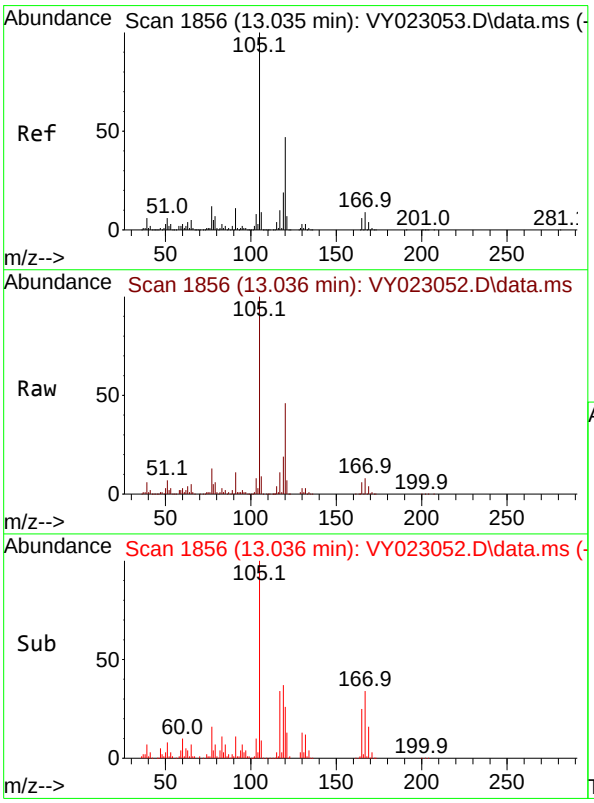
Supervised By :Semsettin Yesilyurt 08/14/2025

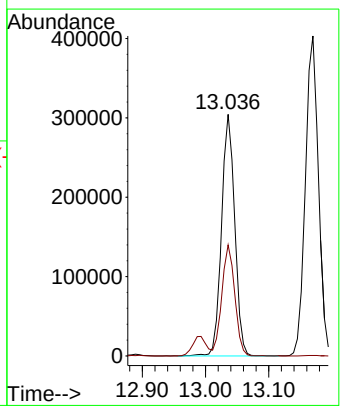


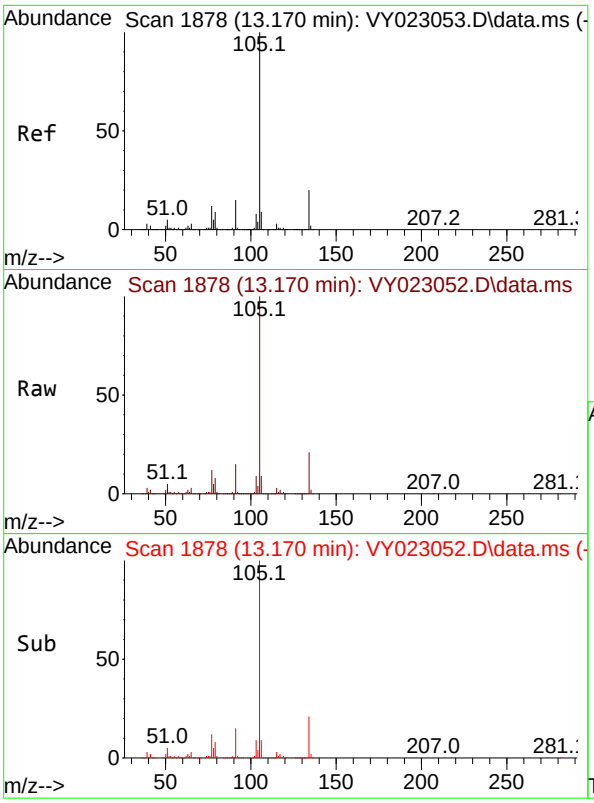


#84
1,2,4-Trimethylbenzene
Concen: 20.814 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 438392

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.0	69.0

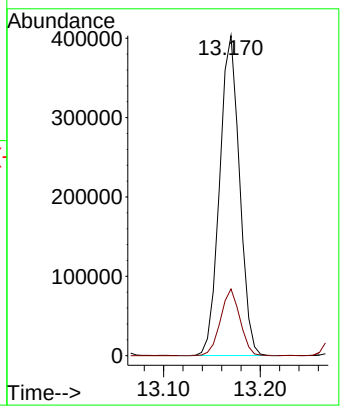




#85
sec-Butylbenzene
Concen: 20.512 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 57580

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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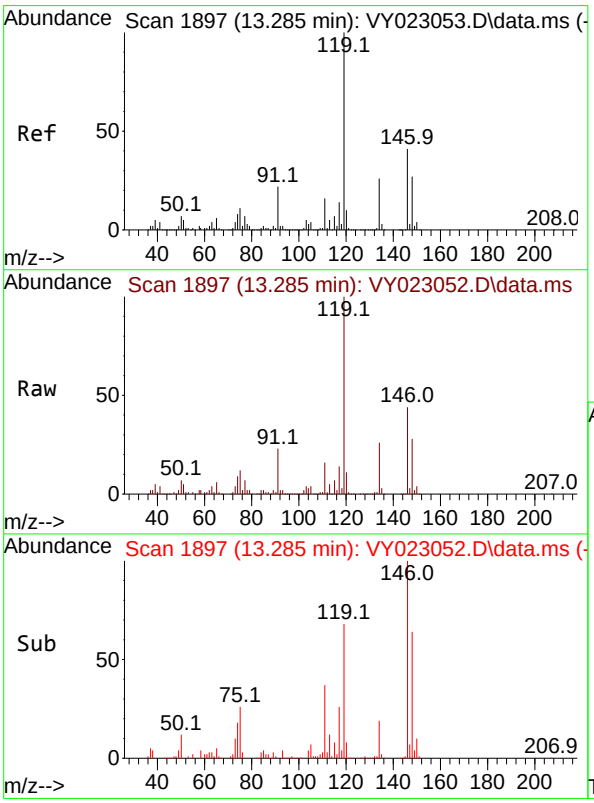
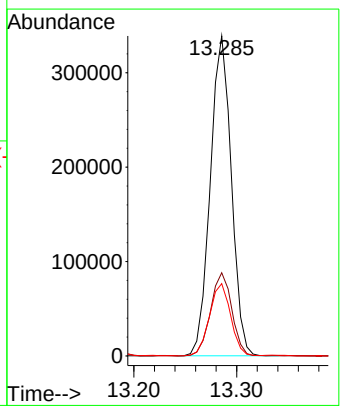
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

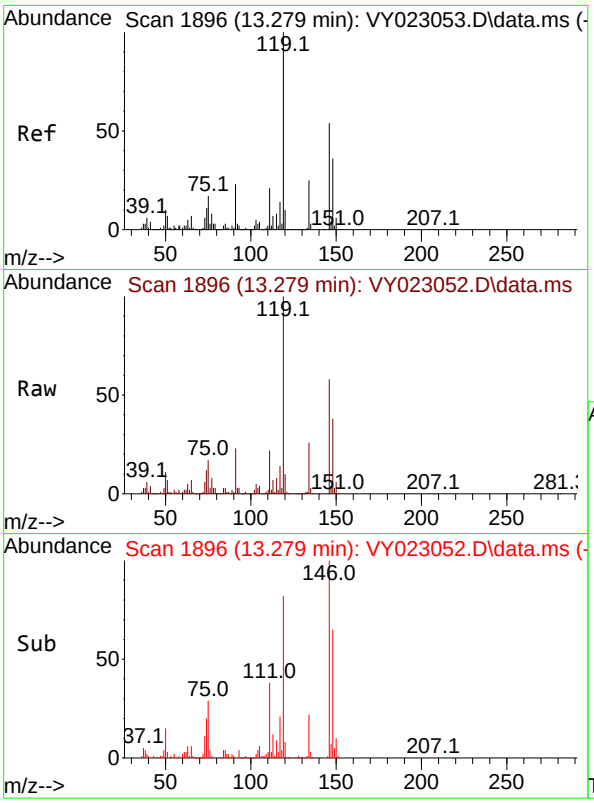


#86
p-Isopropyltoluene
Concen: 20.640 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:119 Resp: 480937

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.6
91	22.6	11.3	33.8

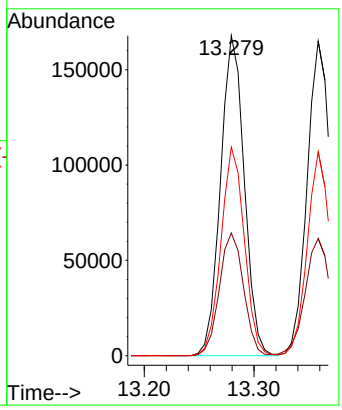




#87
1,3-Dichlorobenzene
Concen: 20.497 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 25245

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	64.3	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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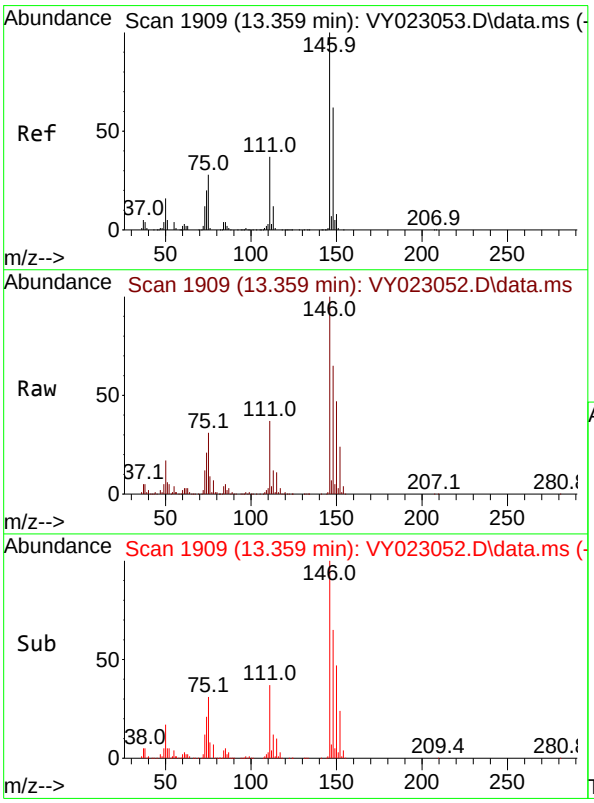
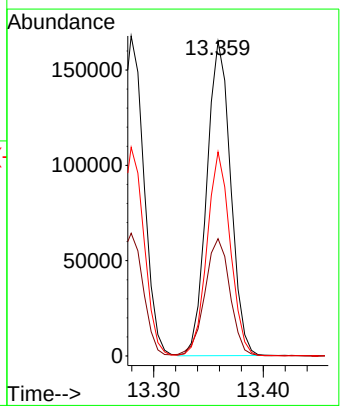
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

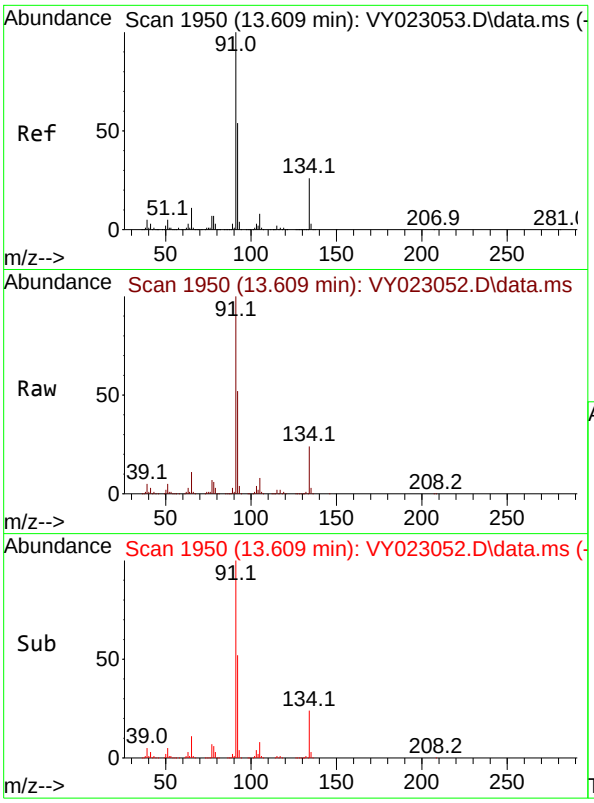


#88
1,4-Dichlorobenzene
Concen: 20.403 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 249280

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.1
148	63.5	31.6	94.7

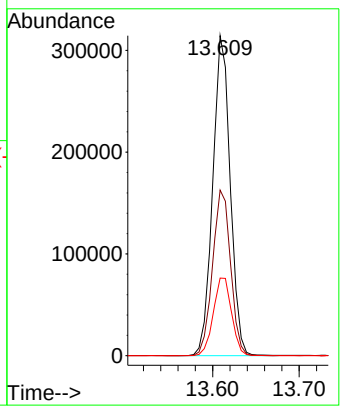




#89
n-Butylbenzene
Concen: 20.605 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 44096

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.9	80.7
134	25.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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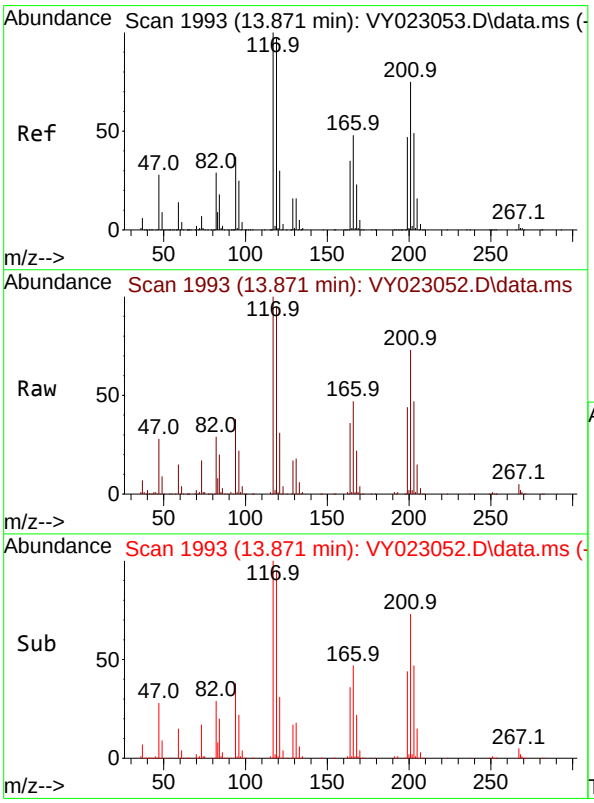
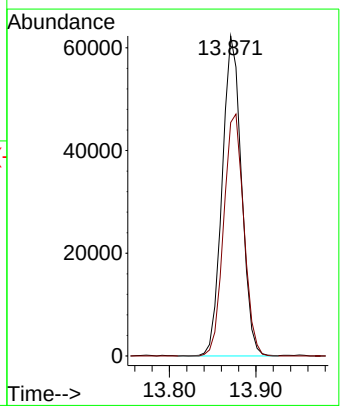
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

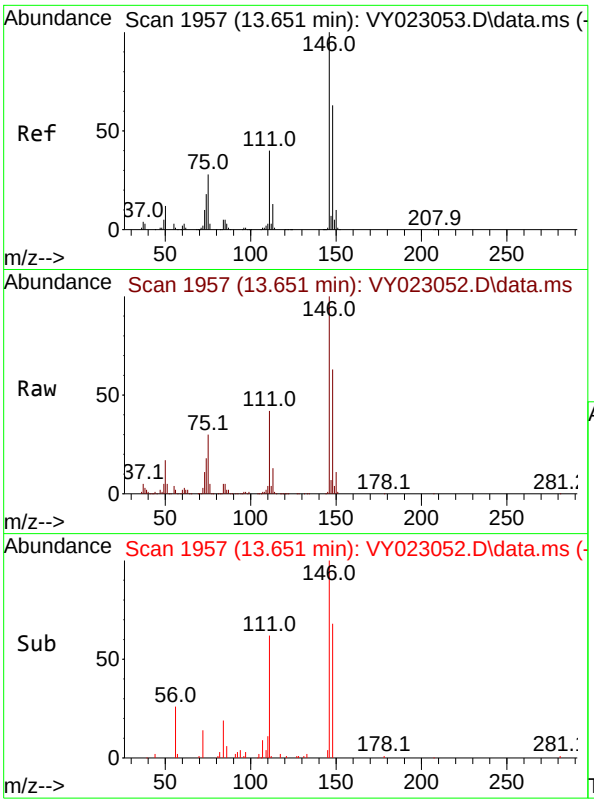


#90
Hexachloroethane
Concen: 20.226 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 96478

Ion	Ratio	Lower	Upper
117	100		
201	78.5	38.4	115.1

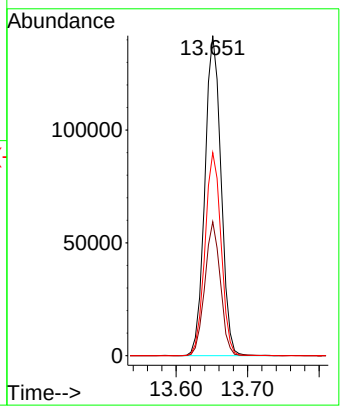




#91
1,2-Dichlorobenzene
Concen: 20.552 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 22200

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.3	60.8
148	63.2	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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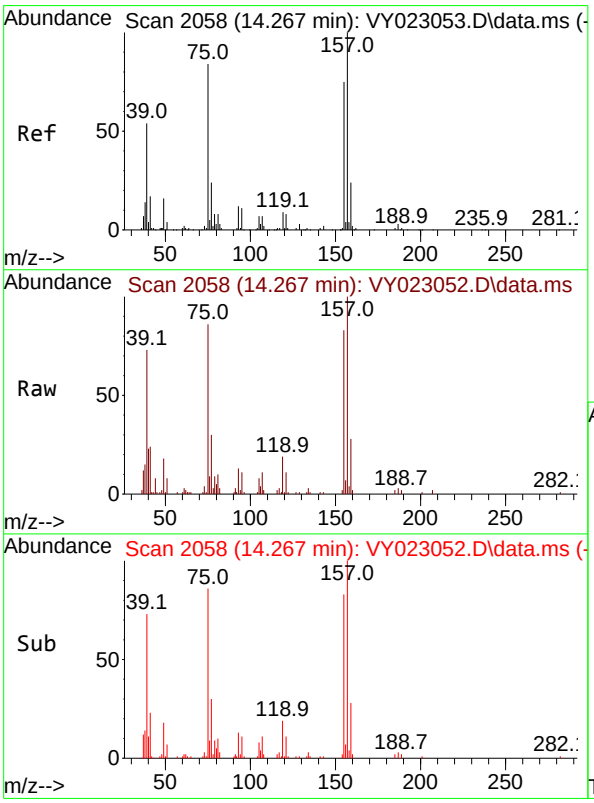
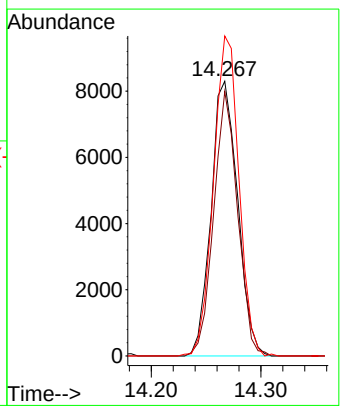
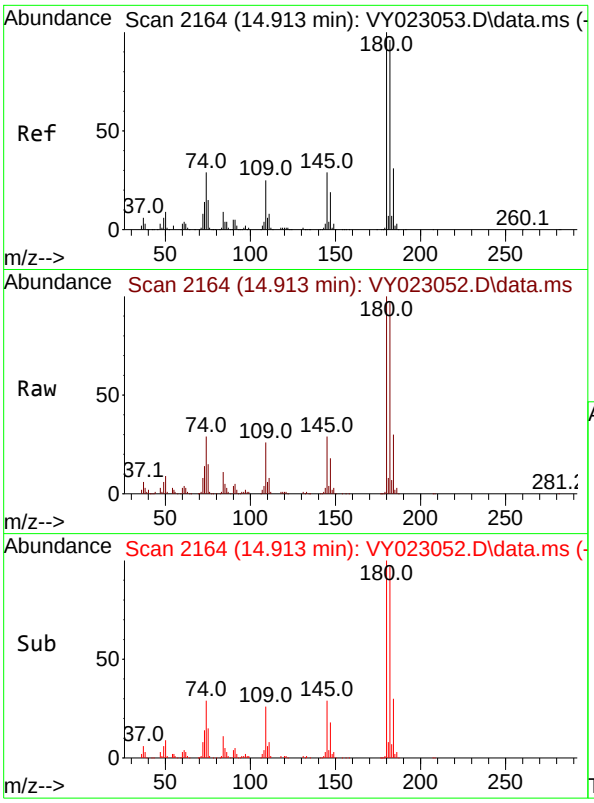


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.076 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 13973

Ion	Ratio	Lower	Upper
75	100		
155	86.7	43.9	131.6
157	111.6	57.2	171.6

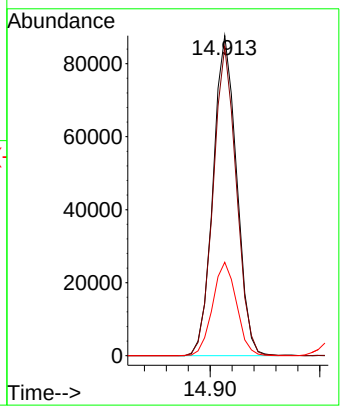




#93
1,2,4-Trichlorobenzene
Concen: 20.464 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:180 Resp: 13071

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.8	140.4
145	29.6	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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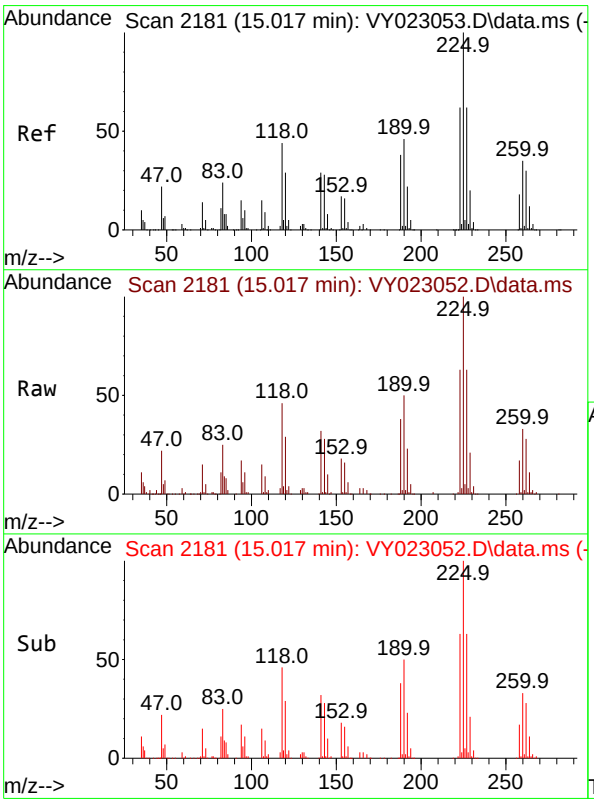
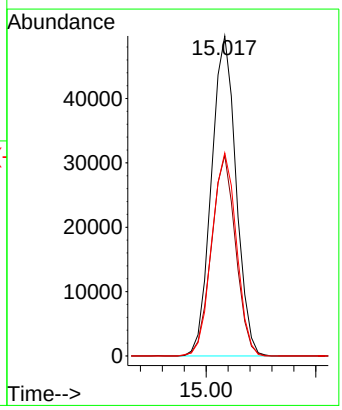
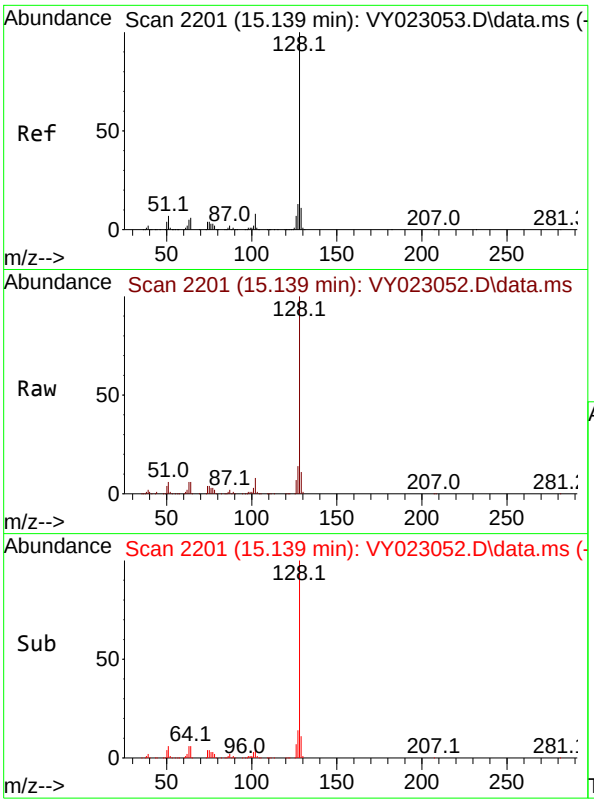


#94
Hexachlorobutadiene
Concen: 20.650 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:225 Resp: 77511

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.3	93.8
227	63.6	31.5	94.5

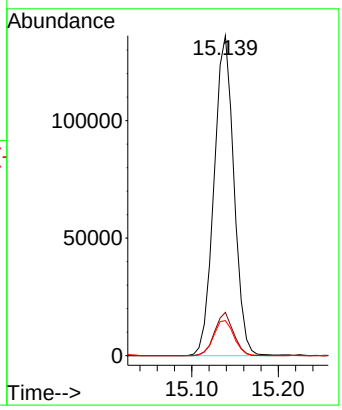




#95
Naphthalene
Concen: 19.915 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:128 Resp: 21692

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.4	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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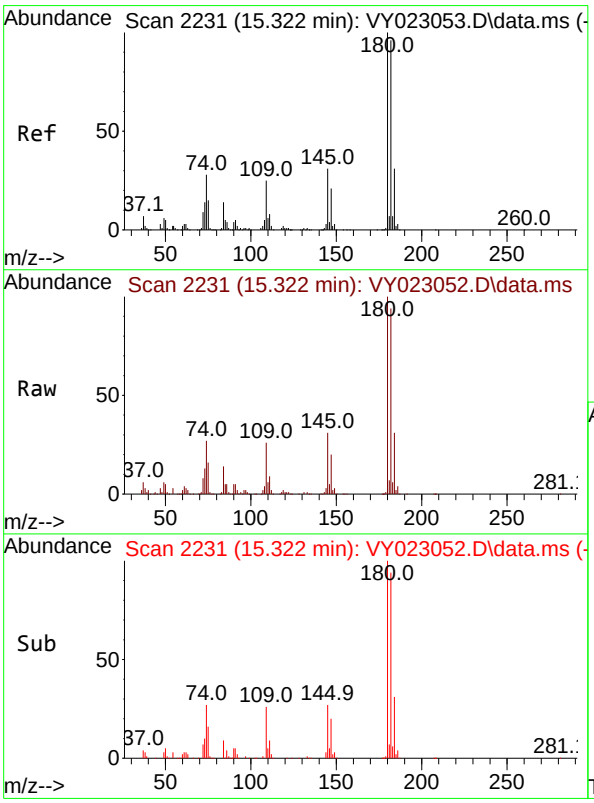
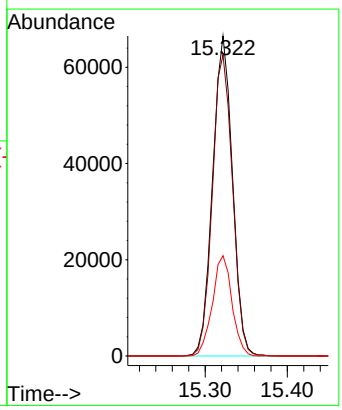


#96
1,2,3-Trichlorobenzene
Concen: 20.258 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:180 Resp: 111506

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.7
145	31.0	15.9	47.7



Quantitation Report (QT Reviewed)

ICAL Form

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Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	539282	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	856556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	751969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	377839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	249044	48.455	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.628	113	251193	49.010	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.020%			
50) Toluene-d8	10.103	98	979082	48.899	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.800%			
62) 4-Bromofluorobenzene	12.401	95	316770	49.194	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	187863	42.677	ug/l	100
3) Chloromethane	2.068	50	327481	45.932	ug/l	100
4) Vinyl Chloride	2.196	62	414609	47.044	ug/l	100
5) Bromomethane	2.592	94	291336	44.263	ug/l	100
6) Chloroethane	2.726	64	277698	47.394	ug/l	100
7) Trichlorofluoromethane	3.049	101	505137	47.136	ug/l	100
8) Diethyl Ether	3.446	74	135373	47.747	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	249063	47.109	ug/l	100
10) Methyl Iodide	3.994	142	296087	51.899	ug/l	100
11) Tert butyl alcohol	4.860	59	85712	243.383	ug/l	100
12) 1,1-Dichloroethene	3.781	96	249492	48.009	ug/l	100
13) Acrolein	3.647	56	121185	234.966	ug/l	100
14) Allyl chloride	4.378	41	369720	48.350	ug/l	100
15) Acrylonitrile	5.049	53	285675	247.839	ug/l	100
16) Acetone	3.860	43	278510	250.122	ug/l	100
17) Carbon Disulfide	4.098	76	804119	47.456	ug/l	100
18) Methyl Acetate	4.378	43	173642	52.403	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	666514	49.495	ug/l	100
20) Methylene Chloride	4.604	84	275004	47.415	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	282272	48.334	ug/l	100
22) Diisopropyl ether	6.018	45	815359	49.070	ug/l	100
23) Vinyl Acetate	5.951	43	2268046	246.849	ug/l	100
24) 1,1-Dichloroethane	5.909	63	495073	48.732	ug/l	100
25) 2-Butanone	6.884	43	382711	252.715	ug/l	100
26) 2,2-Dichloropropane	6.884	77	425773	48.571	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	327272	48.474	ug/l	100
28) Bromochloromethane	7.244	49	196667	48.795	ug/l	100
29) Tetrahydrofuran	7.256	42	235169	250.523	ug/l	100
30) Chloroform	7.415	83	508641	48.547	ug/l	100
31) Cyclohexane	7.695	56	440266	45.989	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	451521	48.569	ug/l	100
36) 1,1-Dichloropropene	7.829	75	371204	48.734	ug/l	100
37) Ethyl Acetate	6.982	43	160980	50.311	ug/l	100
38) Carbon Tetrachloride	7.817	117	399463	48.285	ug/l	100
39) Methylcyclohexane	9.103	83	484691	48.321	ug/l	100
40) Benzene	8.073	78	1142910	48.683	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	94123	50.916	ug/l		100
42) 1,2-Dichloroethane	8.152	62	296907	48.627	ug/l		100
43) Isopropyl Acetate	8.195	43	319600	49.419	ug/l		100
44) Trichloroethene	8.859	130	292421	48.199	ug/l		100
45) 1,2-Dichloropropane	9.140	63	264354	48.938	ug/l		100
46) Dibromomethane	9.225	93	152822	49.291	ug/l		100
47) Bromodichloromethane	9.420	83	393523	49.327	ug/l		100
48) Methyl methacrylate	9.213	41	160792	51.958	ug/l		100
49) 1,4-Dioxane	9.225	88	36249	997.124	ug/l		100
51) 4-Methyl-2-Pentanone	9.993	43	853025	255.710	ug/l		100
52) Toluene	10.164	92	735326	49.315	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	359698	49.790	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	424834	49.731	ug/l		100
55) 1,1,2-Trichloroethane	10.566	97	204368	49.261	ug/l		100
56) Ethyl methacrylate	10.432	69	273801	51.576	ug/l		100
57) 1,3-Dichloropropane	10.713	76	346510	49.249	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	663351	264.906	ug/l		100
59) 2-Hexanone	10.755	43	584223	257.194	ug/l		100
60) Dibromochloromethane	10.908	129	272171	49.719	ug/l		100
61) 1,2-Dibromoethane	11.005	107	193398	49.598	ug/l		100
64) Tetrachloroethene	10.640	164	327271	48.740	ug/l		100
65) Chlorobenzene	11.438	112	793490	48.920	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	271839	49.381	ug/l		100
67) Ethyl Benzene	11.511	91	1397704	50.073	ug/l		100
68) m/p-Xylenes	11.621	106	1080401	99.103	ug/l		100
69) o-Xylene	11.950	106	516002	50.536	ug/l		100
70) Styrene	11.962	104	844409	50.569	ug/l		100
71) Bromoform	12.127	173	160769	49.969	ug/l	#	100
73) Isopropylbenzene	12.249	105	1324313	49.660	ug/l		100
74) N-amyl acetate	12.066	43	289914	51.264	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	220853	48.503	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	202260m	55.430	ug/l		
77) Bromobenzene	12.523	156	312706	49.152	ug/l		100
78) n-propylbenzene	12.590	91	1593368	50.186	ug/l		100
79) 2-Chlorotoluene	12.670	91	899967	49.473	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1080333	50.126	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	74567	49.500	ug/l		100
82) 4-Chlorotoluene	12.767	91	930329	49.299	ug/l		100
83) tert-Butylbenzene	12.993	119	978031	50.244	ug/l		100
84) 1,2,4-Trimethylbenzene	13.035	105	1071926	49.963	ug/l		100
85) sec-Butylbenzene	13.170	105	1425553	49.854	ug/l		100
86) p-Isopropyltoluene	13.285	119	1196645	50.417	ug/l		100
87) 1,3-Dichlorobenzene	13.279	146	608249	48.481	ug/l		100
88) 1,4-Dichlorobenzene	13.359	146	605079	48.618	ug/l		100
89) n-Butylbenzene	13.609	91	1099864	50.454	ug/l		100
90) Hexachloroethane	13.871	117	238005	48.984	ug/l		100
91) 1,2-Dichlorobenzene	13.651	146	536637	48.772	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35867	50.592	ug/l		100
93) 1,2,4-Trichlorobenzene	14.913	180	320080	49.192	ug/l		100
94) Hexachlorobutadiene	15.017	225	185604	48.543	ug/l		100
95) Naphthalene	15.139	128	562363	50.685	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	272154	48.540	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
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Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
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Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
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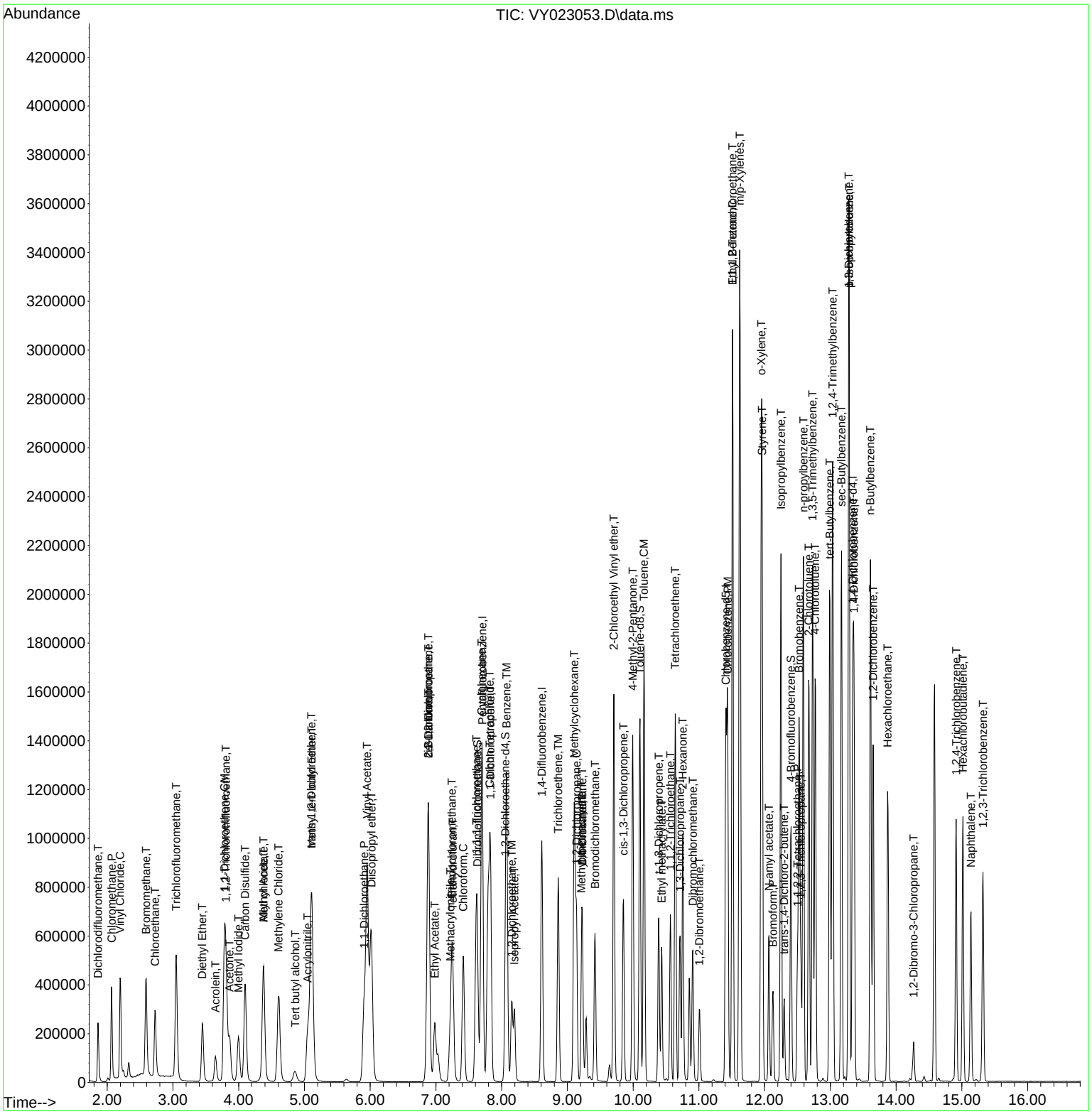
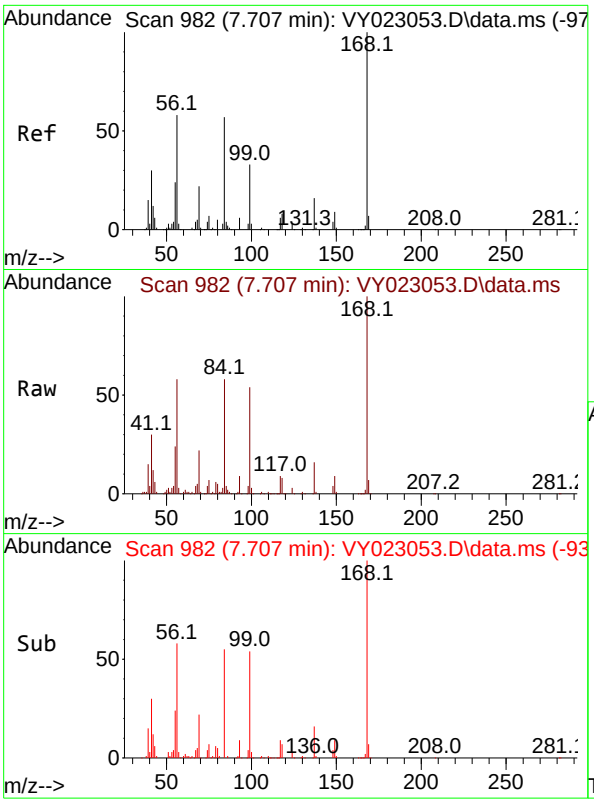
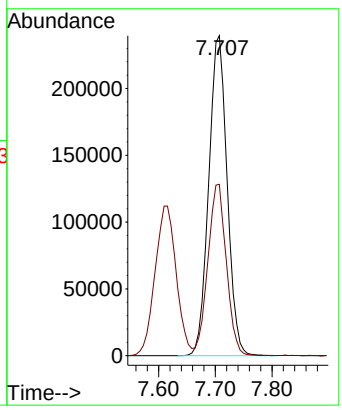




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:168 Resp: 53928

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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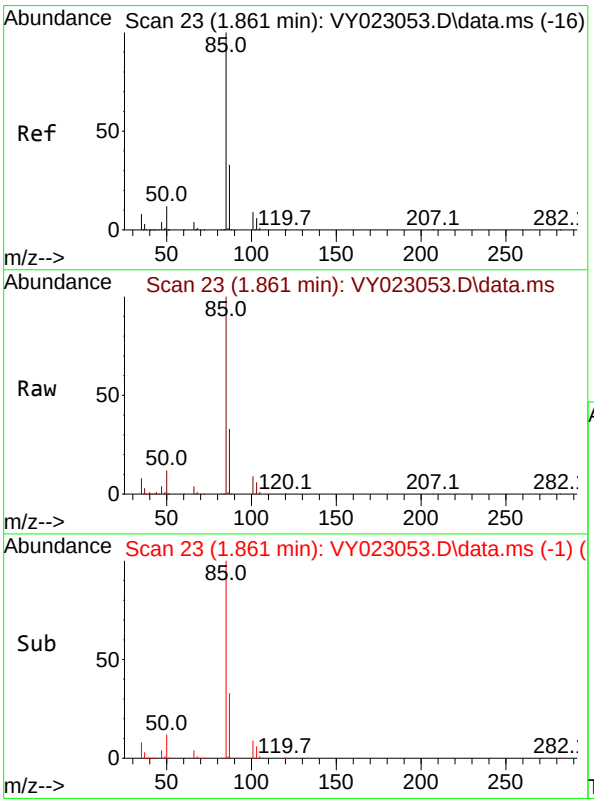
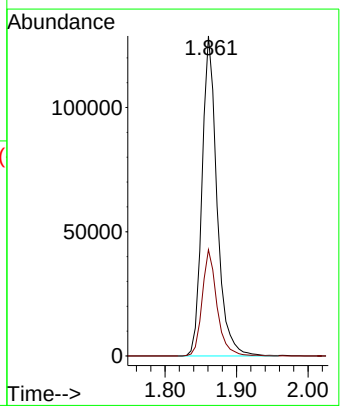
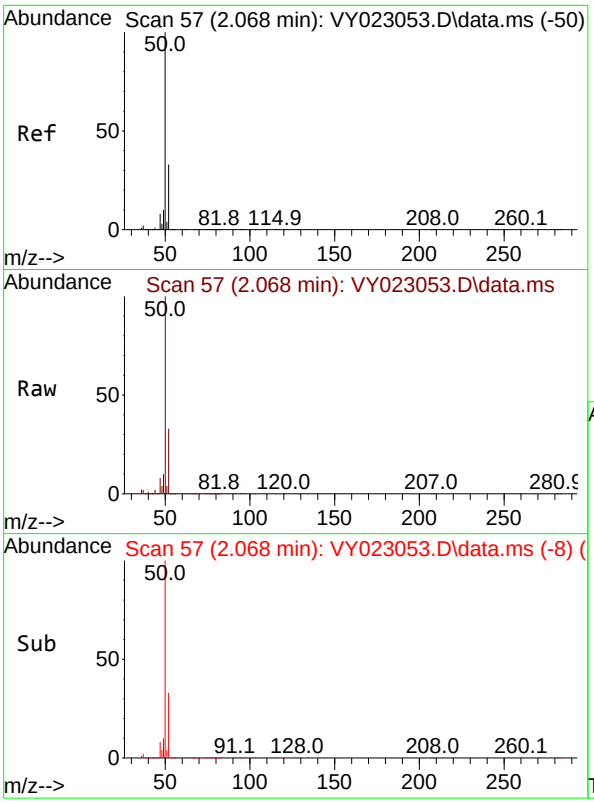


#2
Dichlorodifluoromethane
Concen: 42.677 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 85 Resp: 187863

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.6	49.8

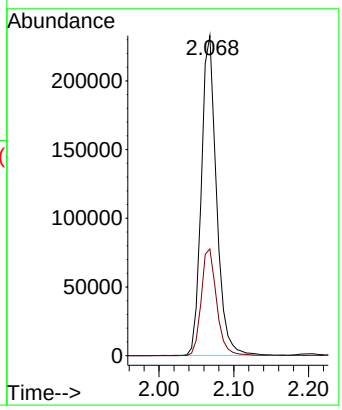




#3
Chloromethane
Concen: 45.932 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 50 Resp: 32748

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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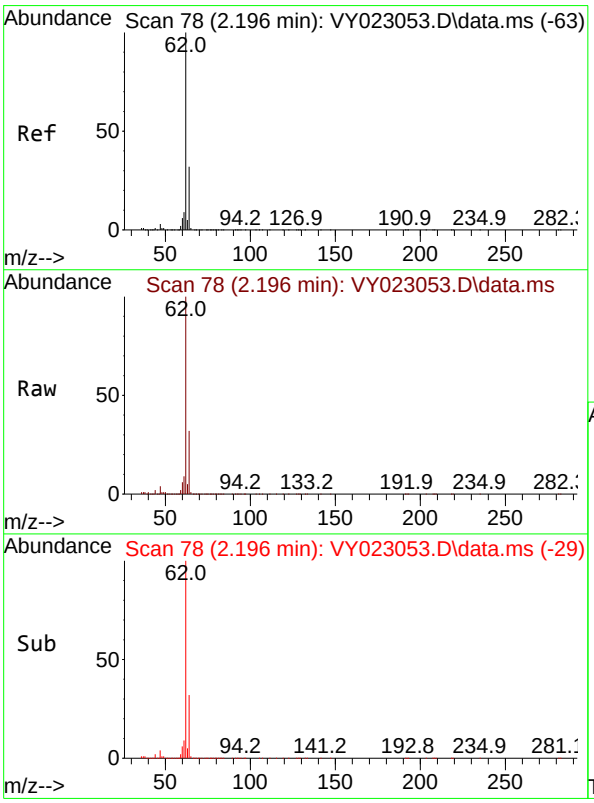
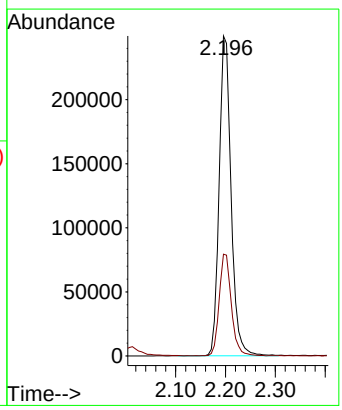
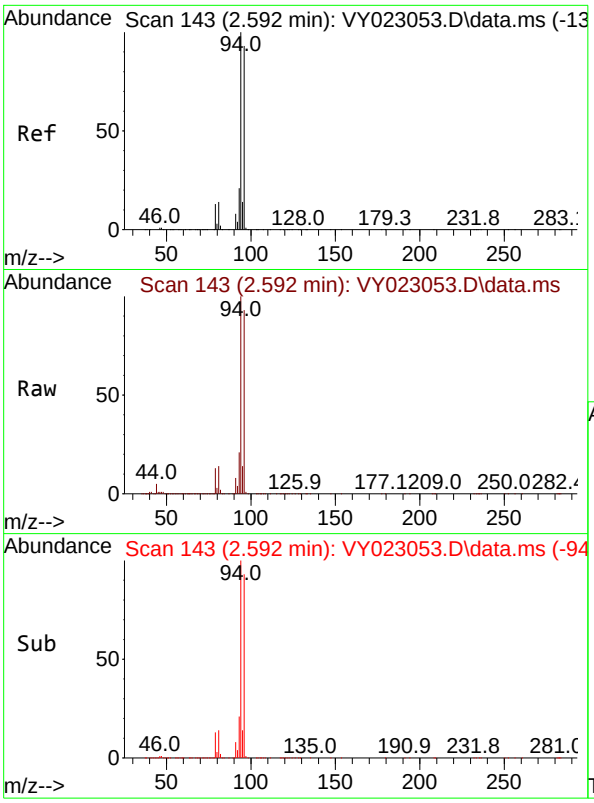


#4
Vinyl Chloride
Concen: 47.044 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 414609

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

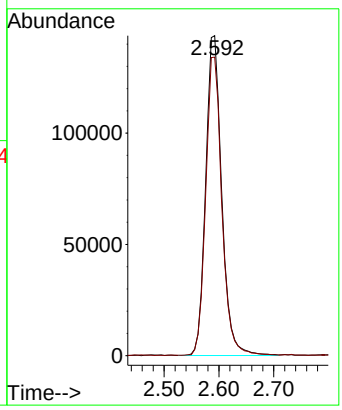




#5
Bromomethane
Concen: 44.263 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 94 Resp: 29133

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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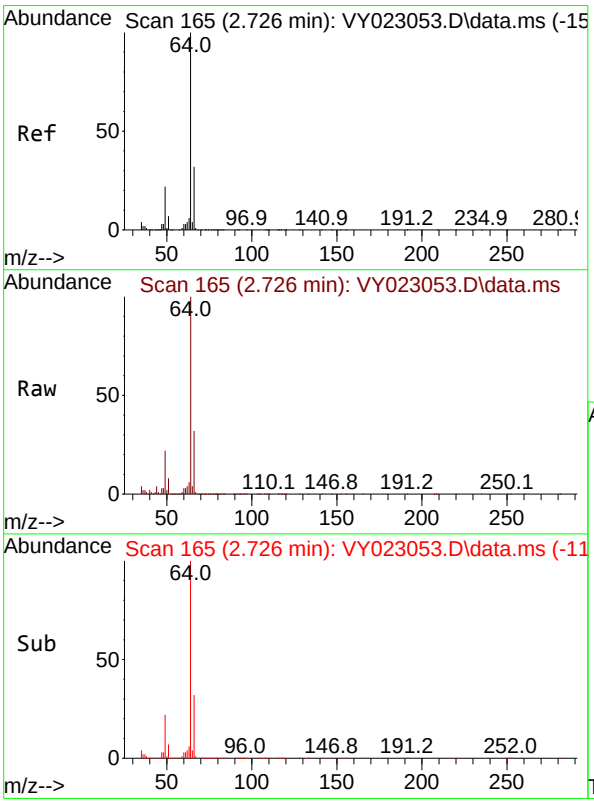
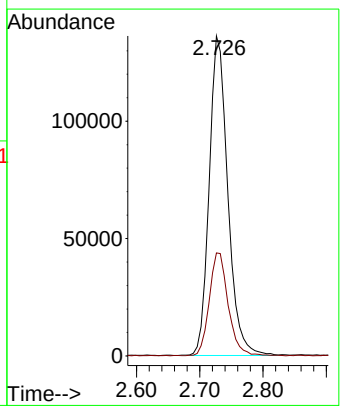
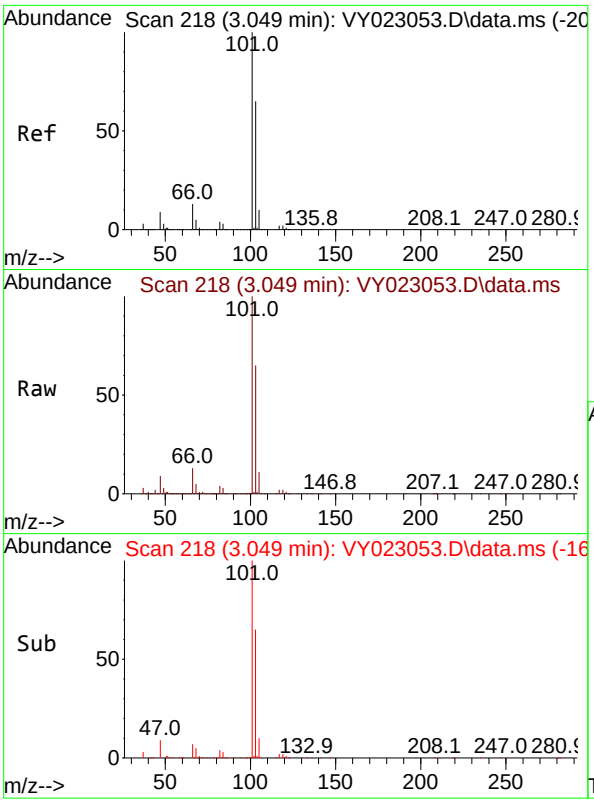


#6
Chloroethane
Concen: 47.394 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 64 Resp: 277698

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.8	38.6

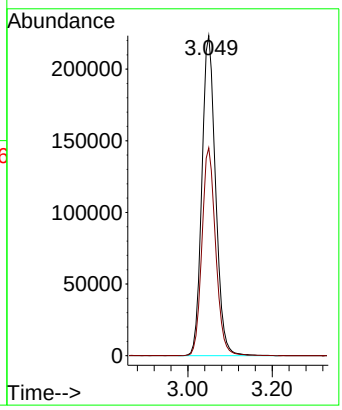




#7
Trichlorofluoromethane
Concen: 47.136 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:101 Resp: 50513

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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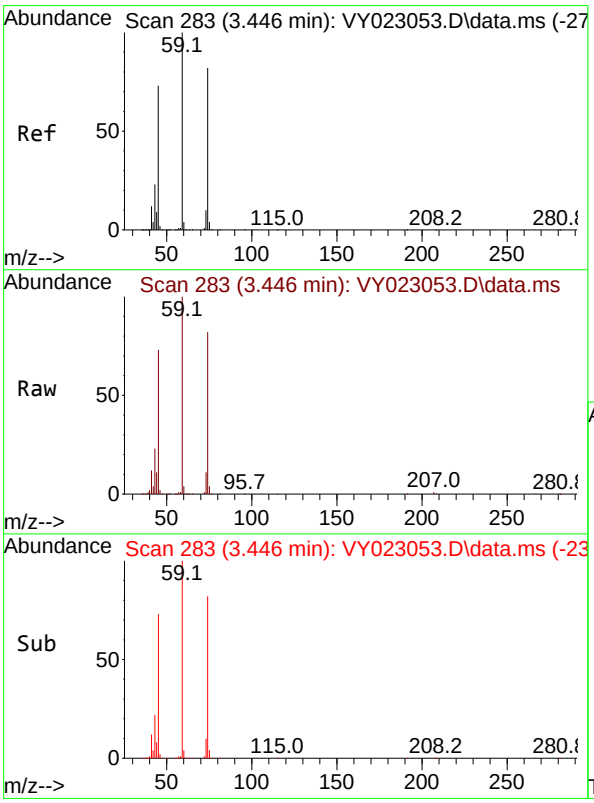
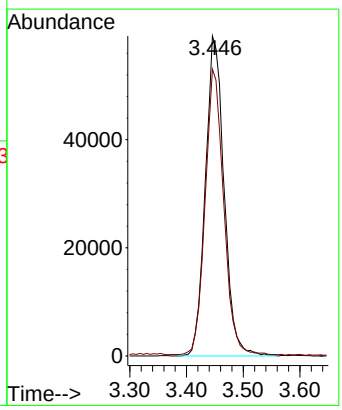
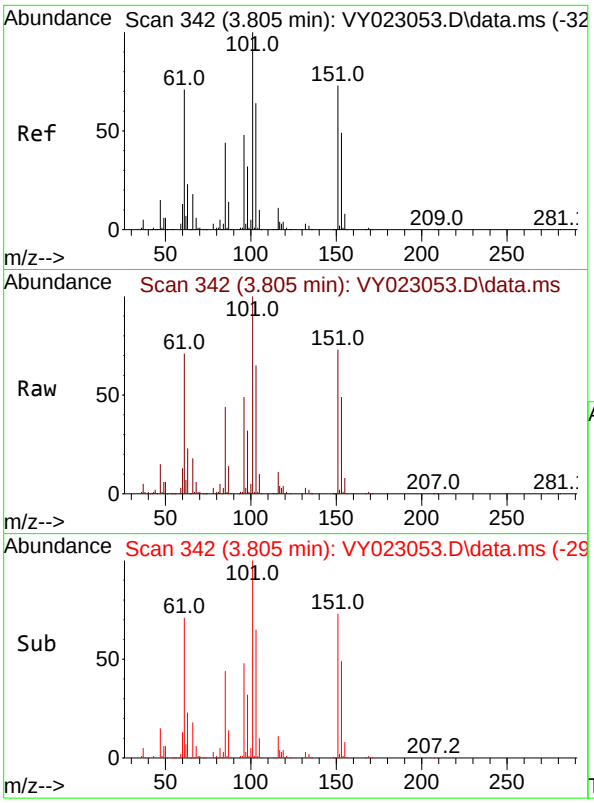


#8
Diethyl Ether
Concen: 47.747 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 74 Resp: 135373

Ion	Ratio	Lower	Upper
74	100		
45	88.8	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.109 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

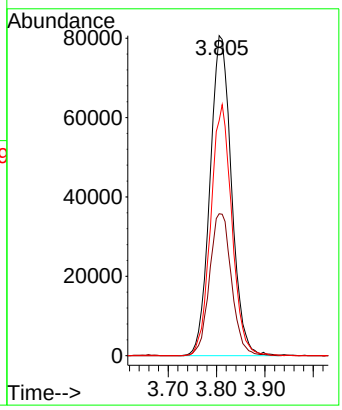
Tgt Ion:101 Resp: 24906

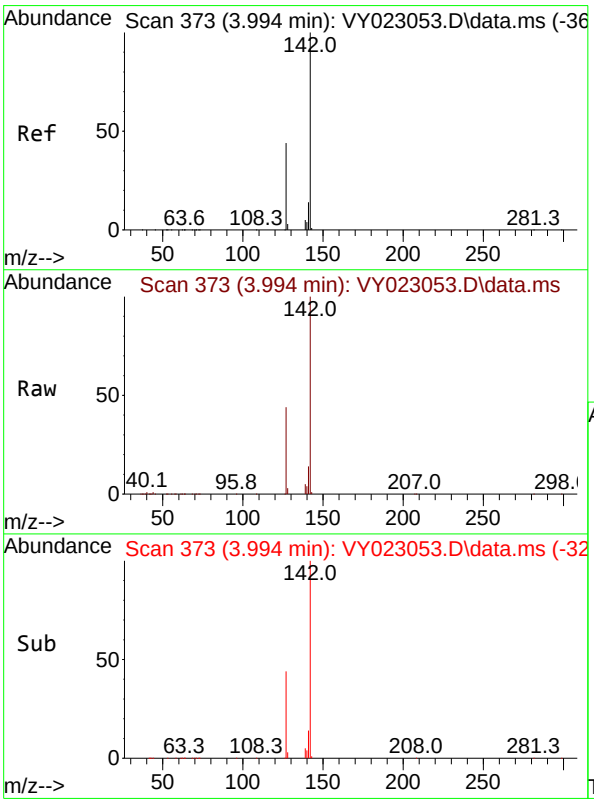
Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.3	54.5
151	76.9	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

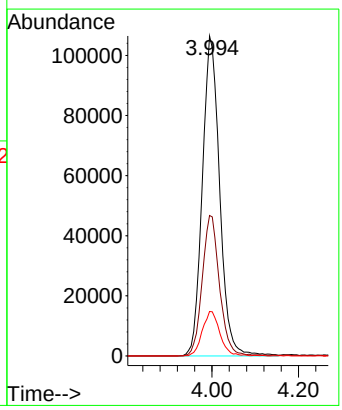


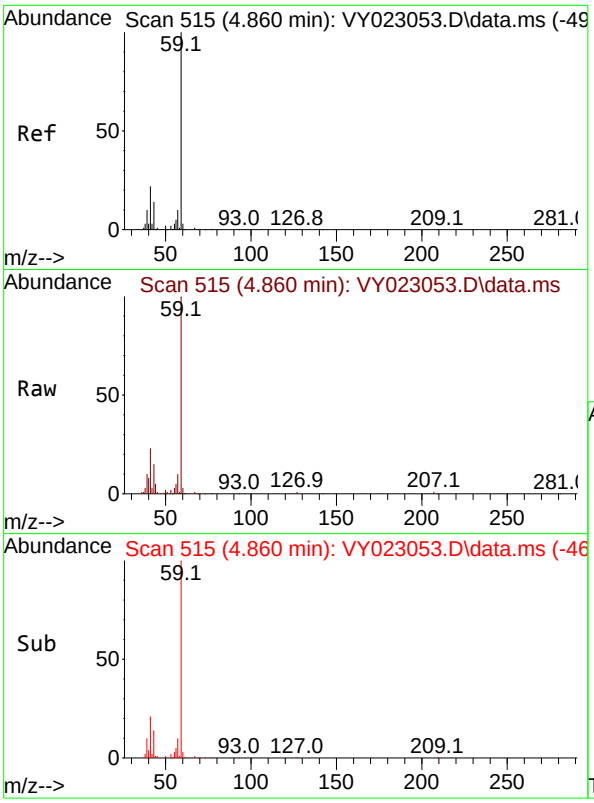


#10
Methyl Iodide
Concen: 51.899 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:142 Resp: 296087

Ion	Ratio	Lower	Upper
142	100		
127	43.6	34.9	52.3
141	14.1	11.3	16.9

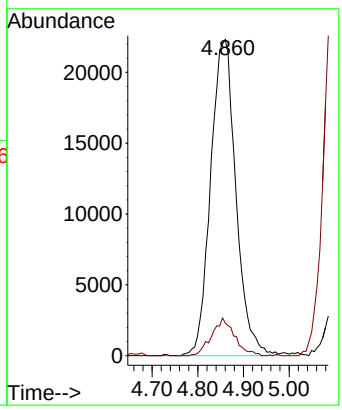




#11
Tert butyl alcohol
Concen: 243.383 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 59 Resp: 8571

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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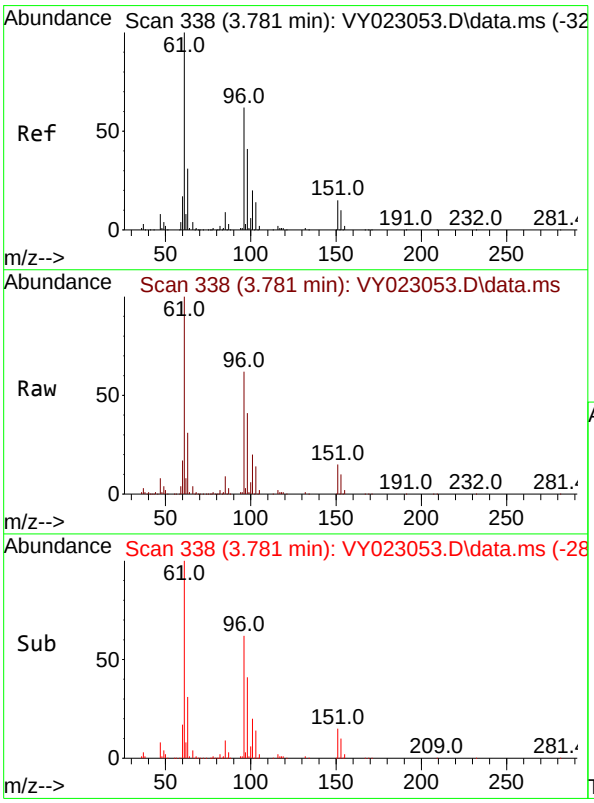
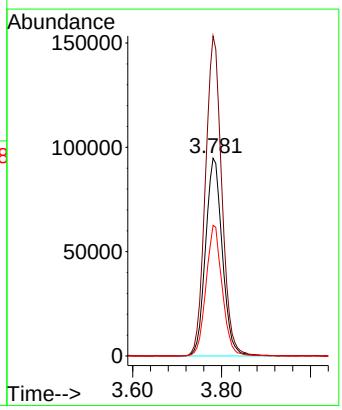
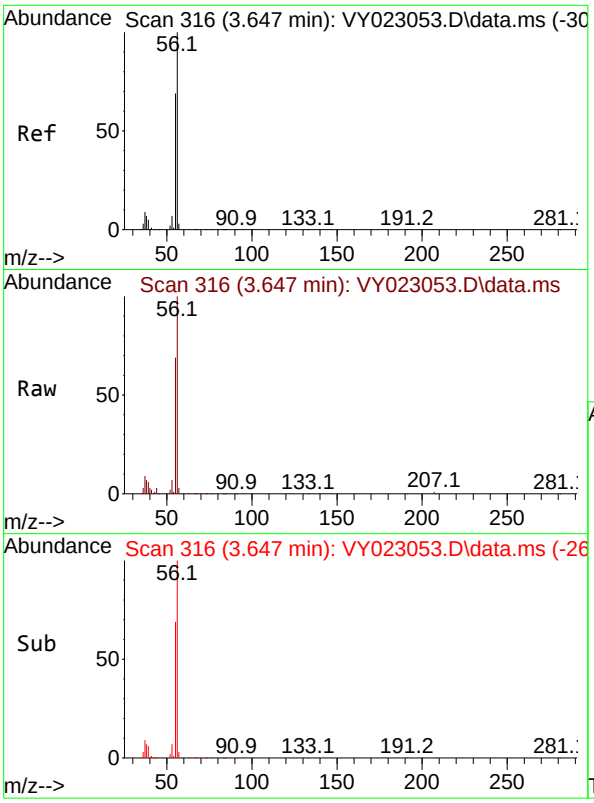


#12
1,1-Dichloroethene
Concen: 48.009 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 249492

Ion	Ratio	Lower	Upper
96	100		
61	161.8	129.4	194.2
98	66.0	52.8	79.2

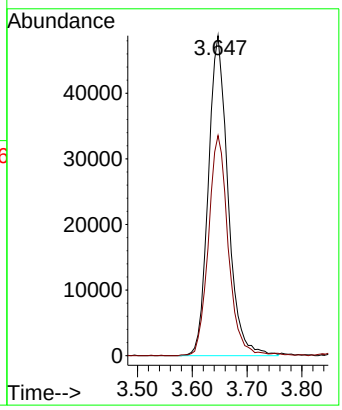




#13
Acrolein
Concen: 234.966 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 56 Resp: 12118

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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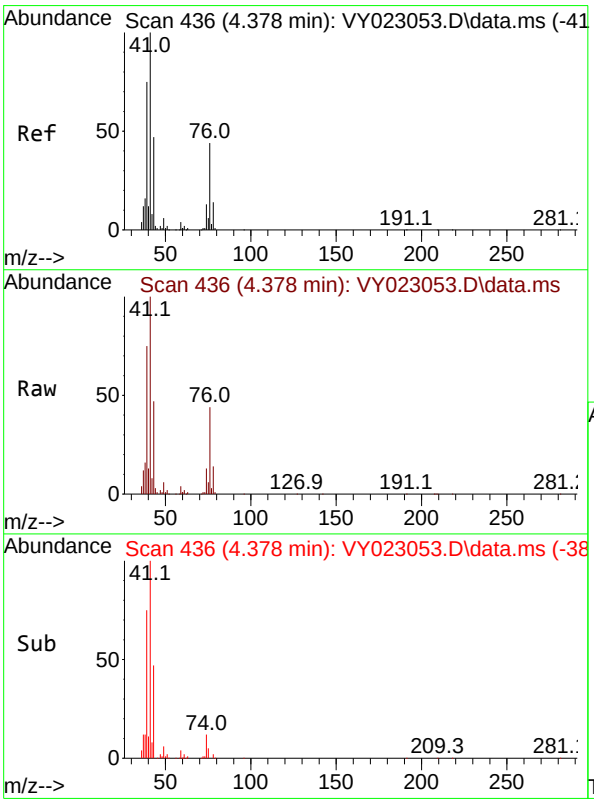
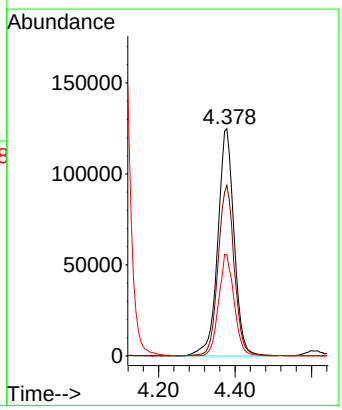
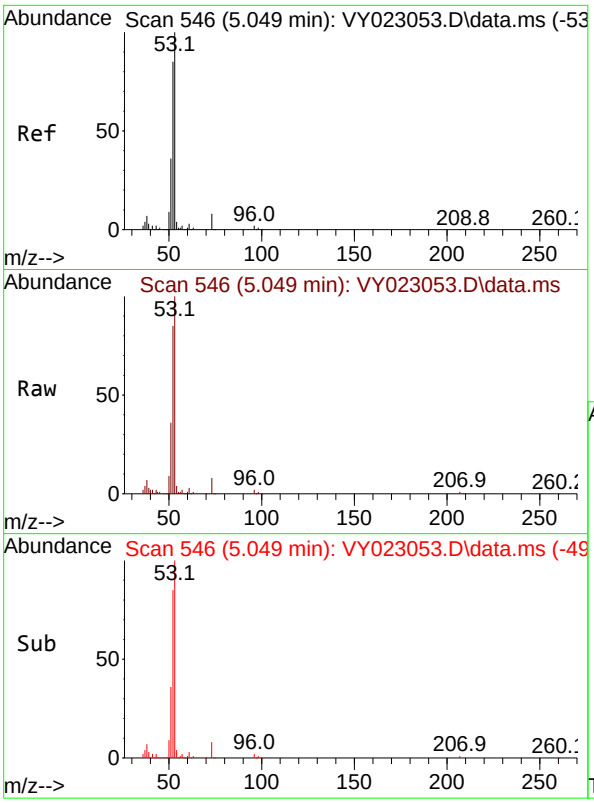


#14
Allyl chloride
Concen: 48.350 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 369720

Ion	Ratio	Lower	Upper
41	100		
39	74.7	59.8	89.6
76	42.1	33.7	50.5





#15
Acrylonitrile
Concen: 247.839 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 53 Resp: 28567

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.3	97.9
51	36.9	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
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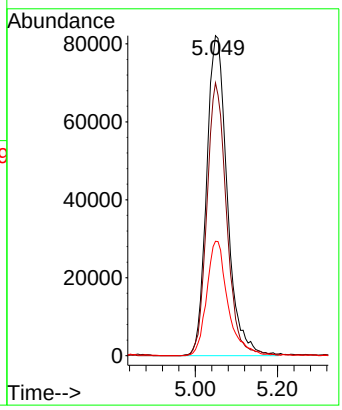
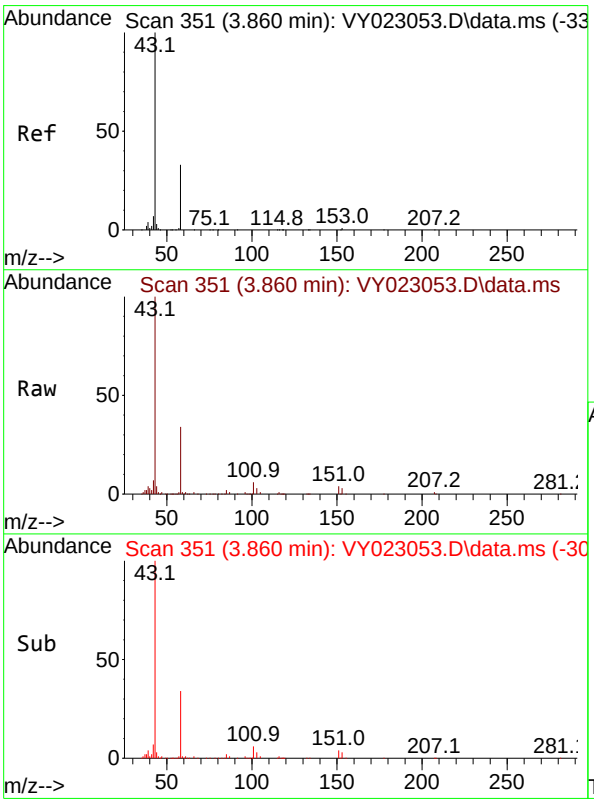
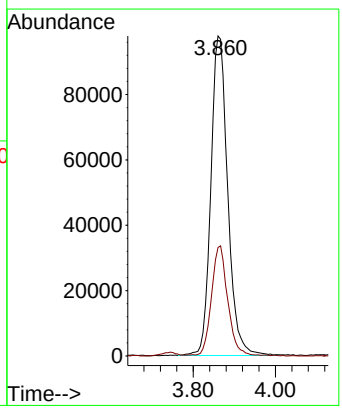


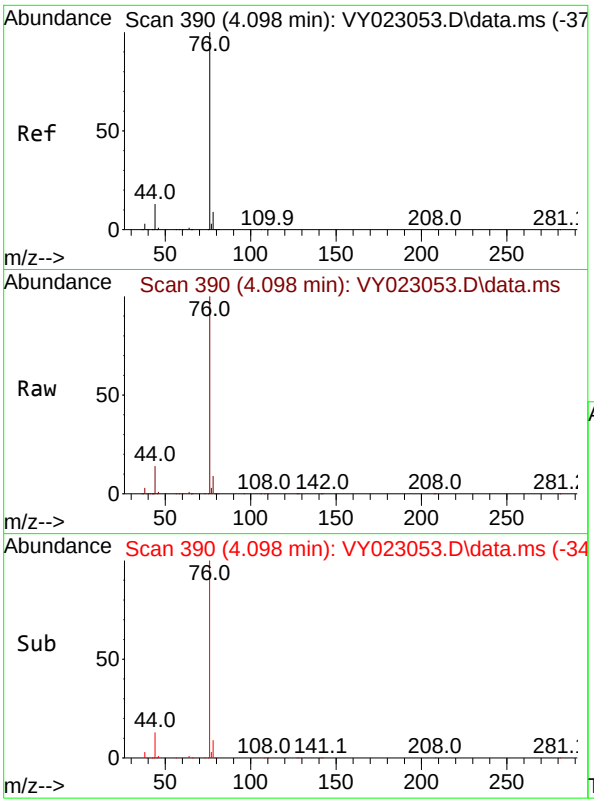


#16
Acetone
Concen: 250.122 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 278510

Ion	Ratio	Lower	Upper
43	100		
58	33.9	27.1	40.7

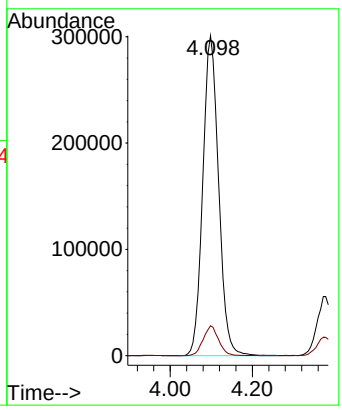




#17
Carbon Disulfide
Concen: 47.456 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 76 Resp: 80411

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
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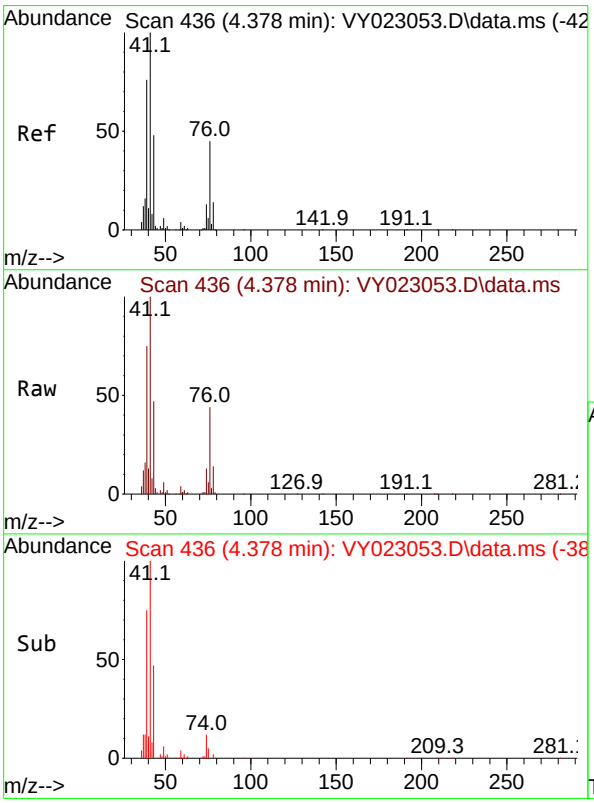
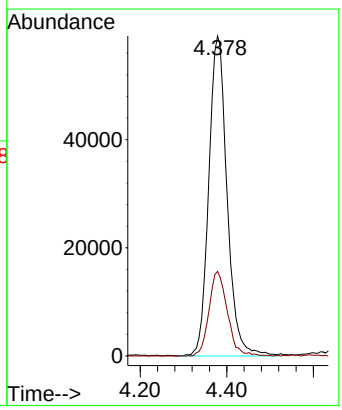
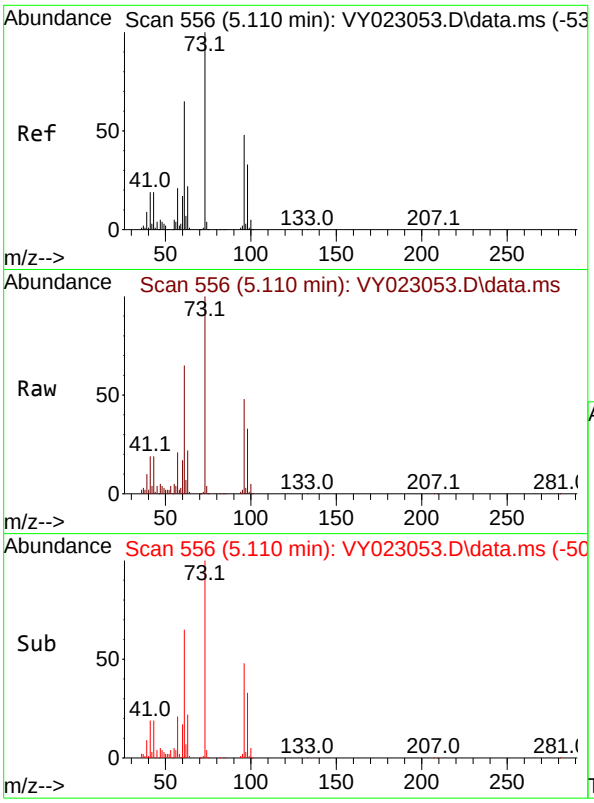


#18
Methyl Acetate
Concen: 52.403 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 173642

Ion	Ratio	Lower	Upper
43	100		
74	26.5	21.2	31.8

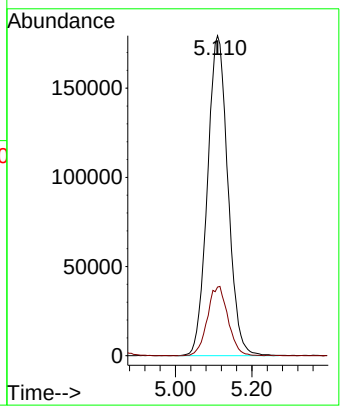




#19
Methyl tert-butyl Ether
Concen: 49.495 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 73 Resp: 66651

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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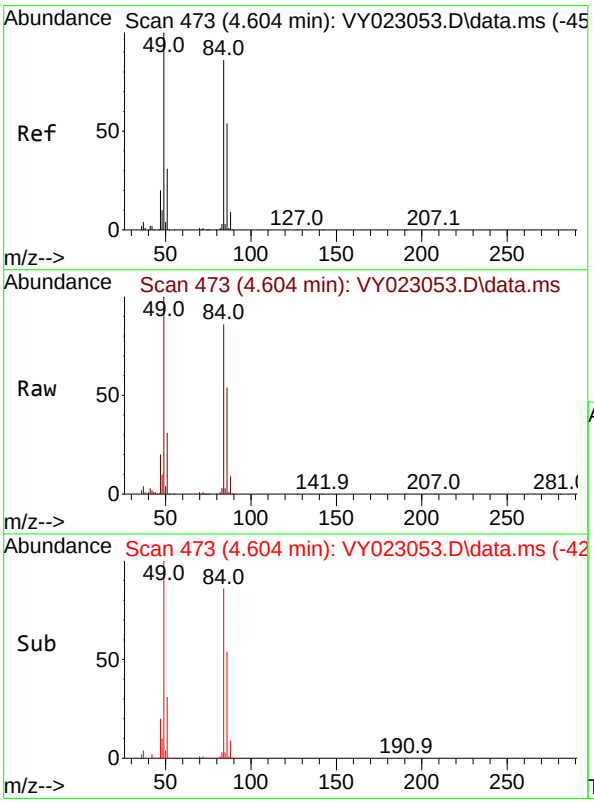
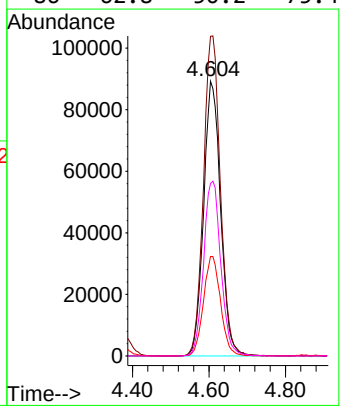
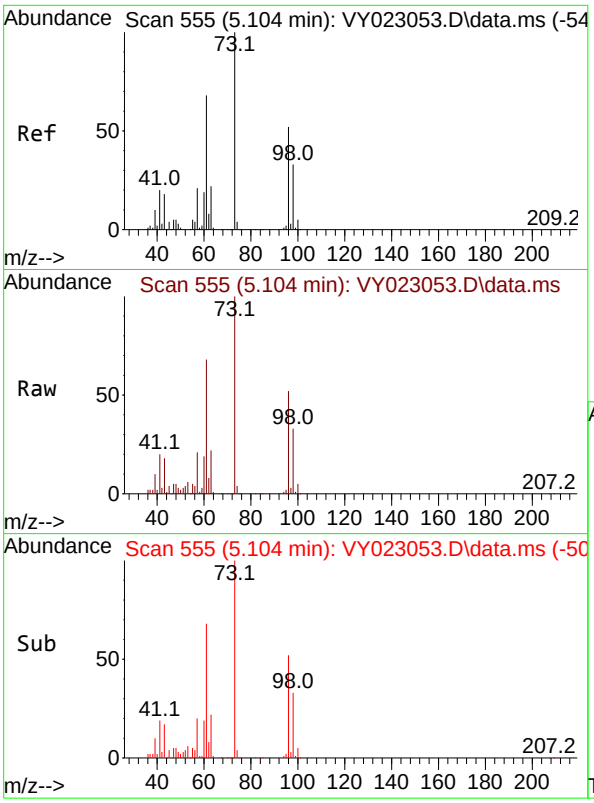


#20
Methylene Chloride
Concen: 47.415 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 84 Resp: 275004

Ion	Ratio	Lower	Upper
84	100		
49	116.3	93.0	139.6
51	36.2	29.0	43.4
86	62.8	50.2	75.4

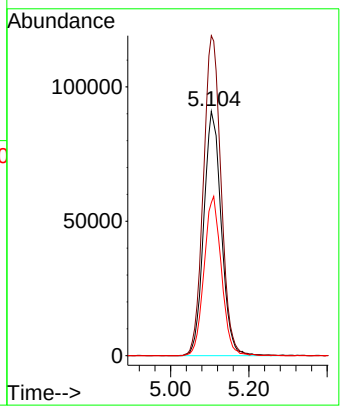




#21
trans-1,2-Dichloroethene
Concen: 48.334 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 28227

Ion	Ratio	Lower	Upper
96	100		
61	131.0	104.8	157.2
98	62.6	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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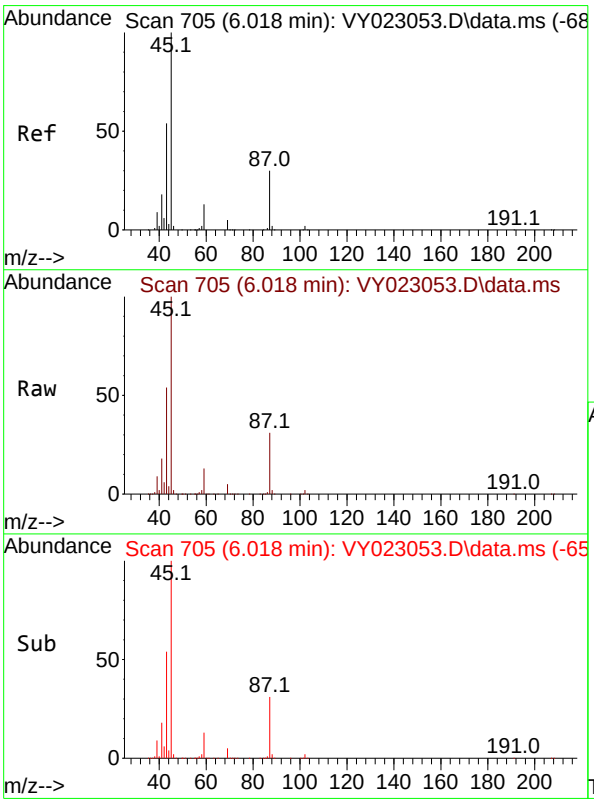
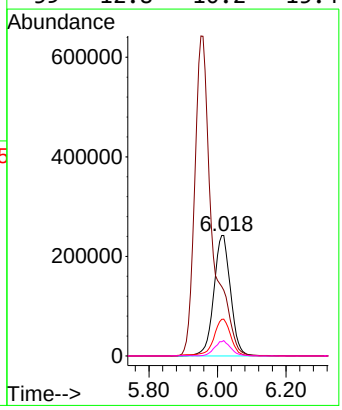
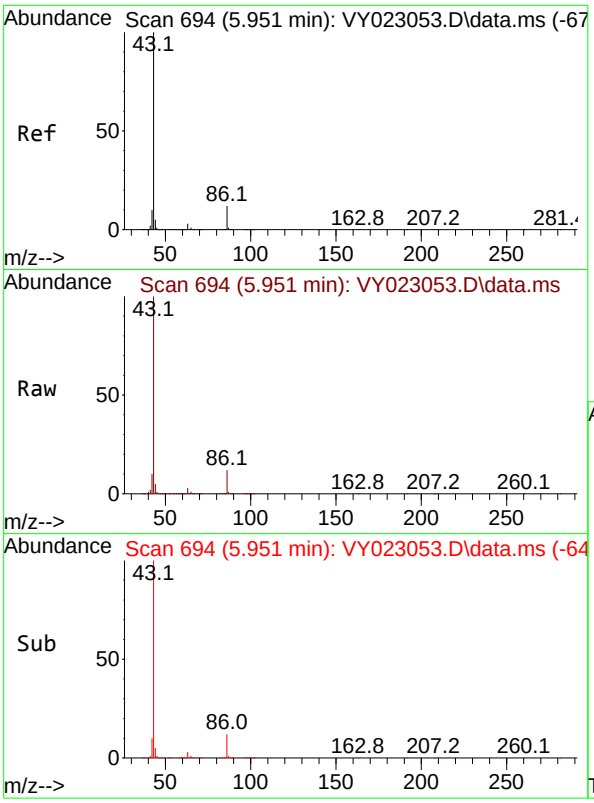


#22
Diisopropyl ether
Concen: 49.070 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 45 Resp: 815359

Ion	Ratio	Lower	Upper
45	100		
43	54.2	43.4	65.0
87	30.5	24.4	36.6
59	12.8	10.2	15.4





#23
Vinyl Acetate
Concen: 246.849 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 226804

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
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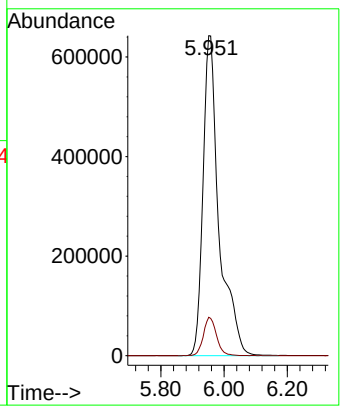
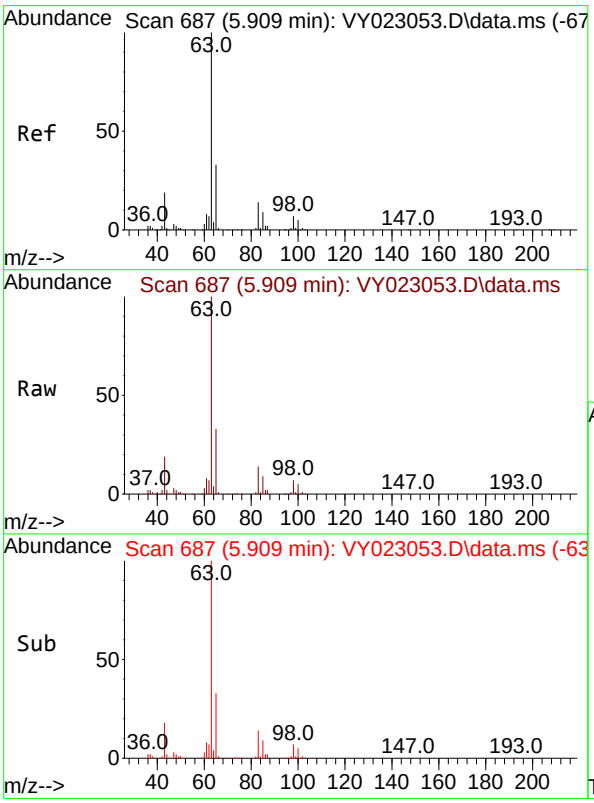
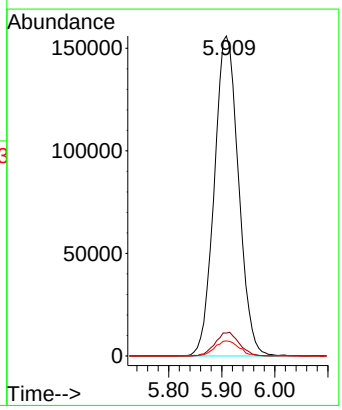


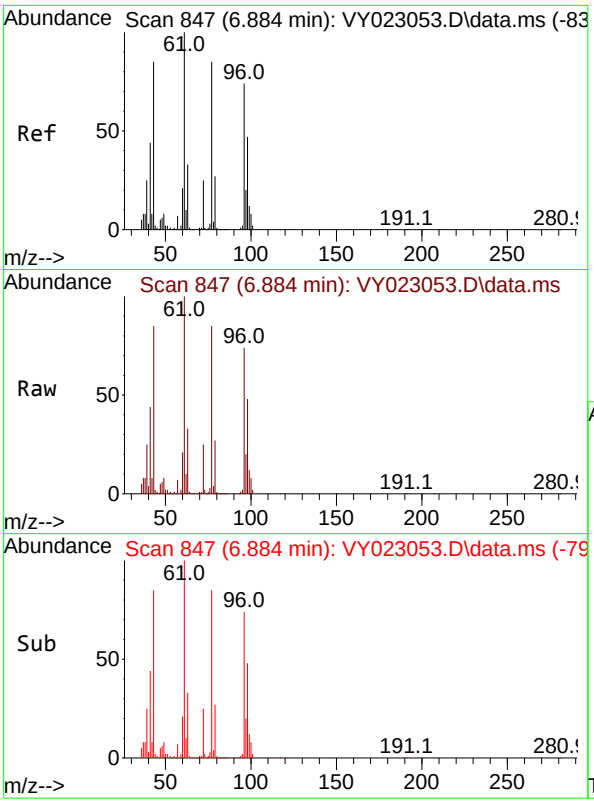


#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 495073

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.7	2.4	7.1

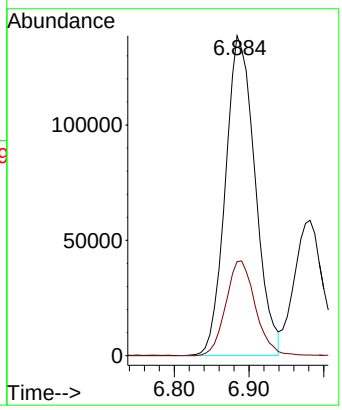




#25
2-Butanone
Concen: 252.715 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 38271

Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
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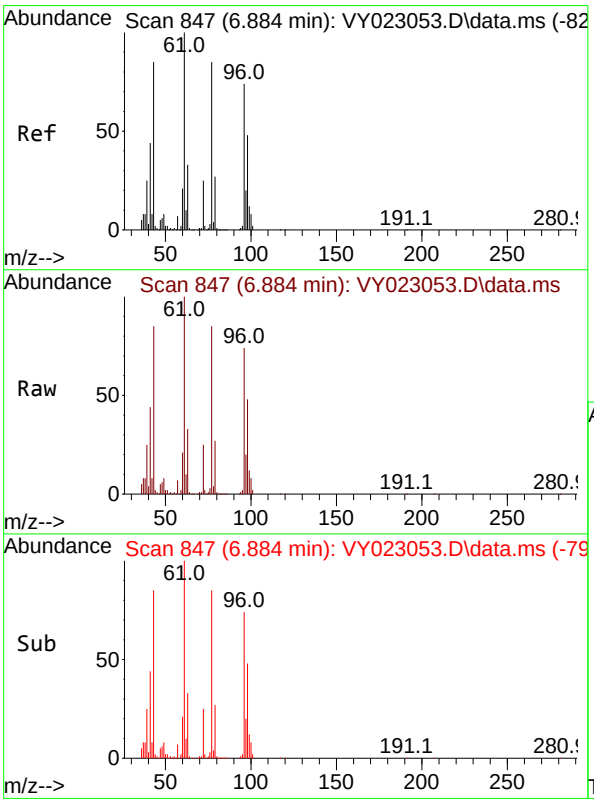
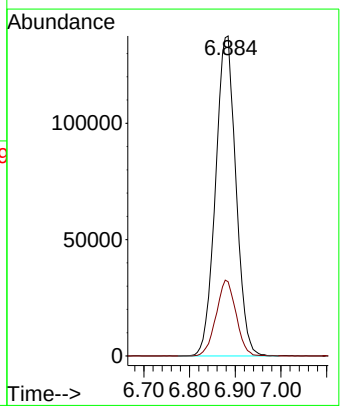
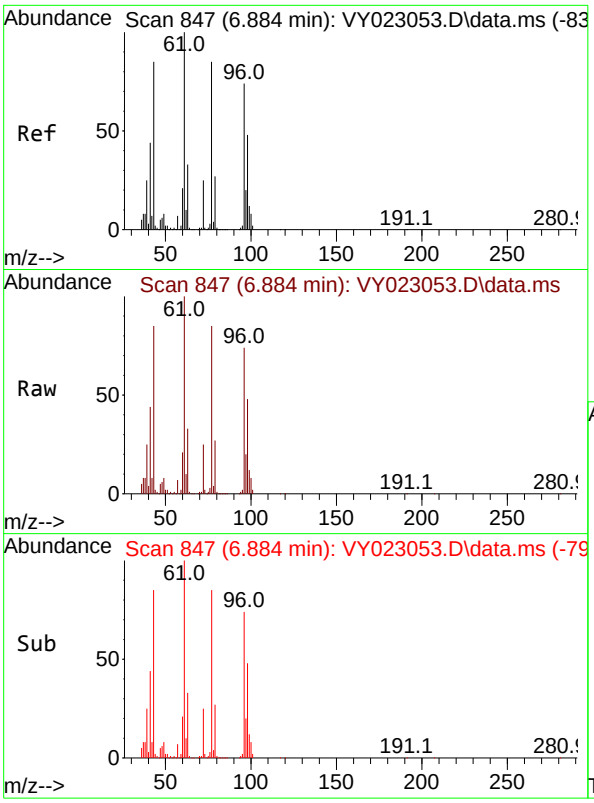


#26
2,2-Dichloropropane
Concen: 48.571 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 77 Resp: 425773

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8

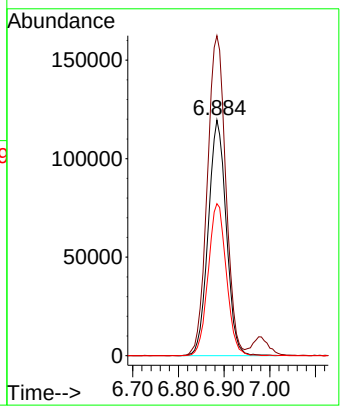




#27
cis-1,2-Dichloroethene
Concen: 48.474 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 32727

Ion	Ratio	Lower	Upper
96	100		
61	139.3	0.0	278.6
98	65.2	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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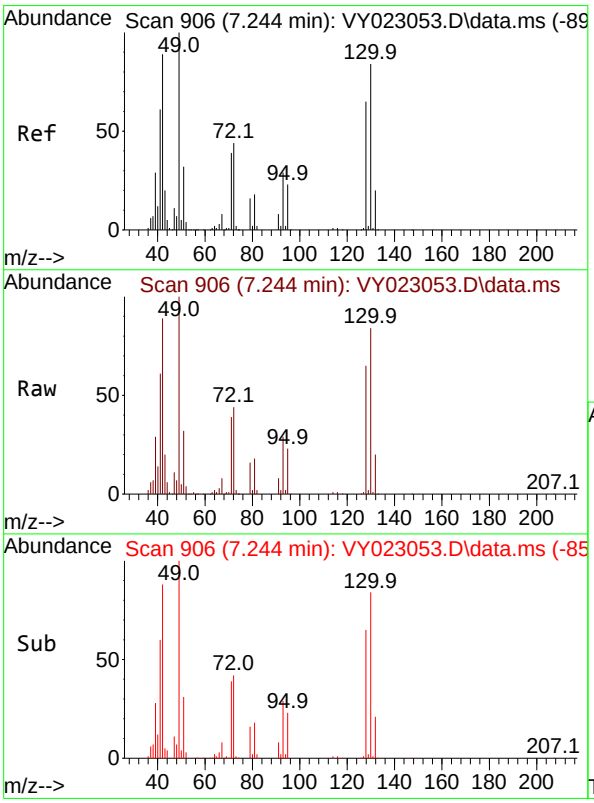
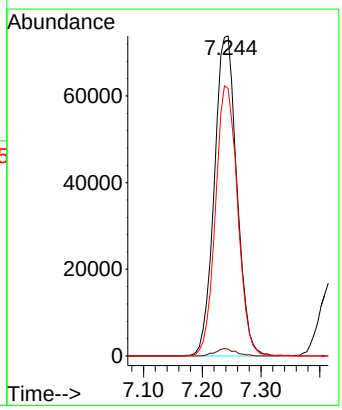
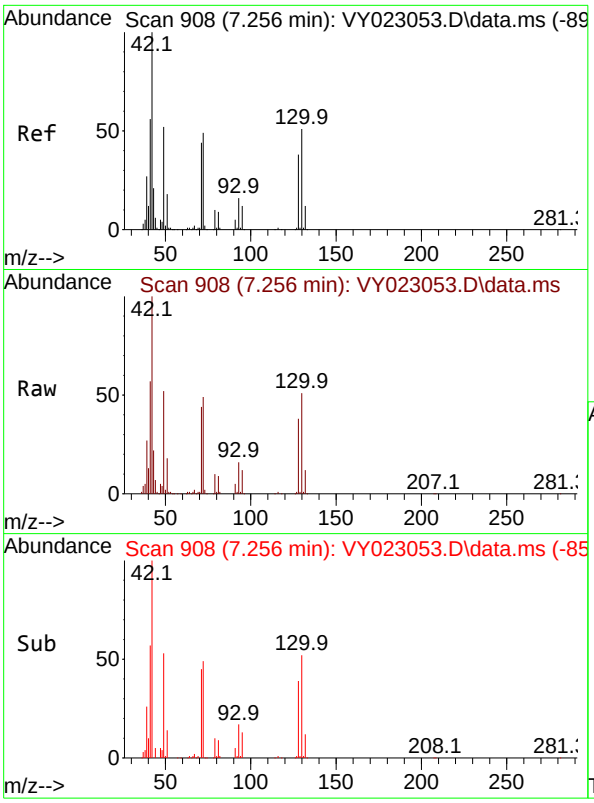


#28
Bromochloromethane
Concen: 48.795 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 49 Resp: 196667

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.0	66.4	99.6

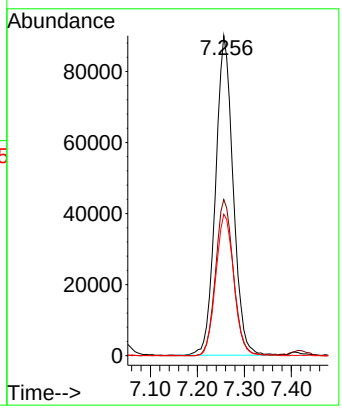




#29
Tetrahydrofuran
Concen: 250.523 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 42 Resp: 23516

Ion	Ratio	Lower	Upper
42	100		
72	49.3	39.4	59.2
71	45.6	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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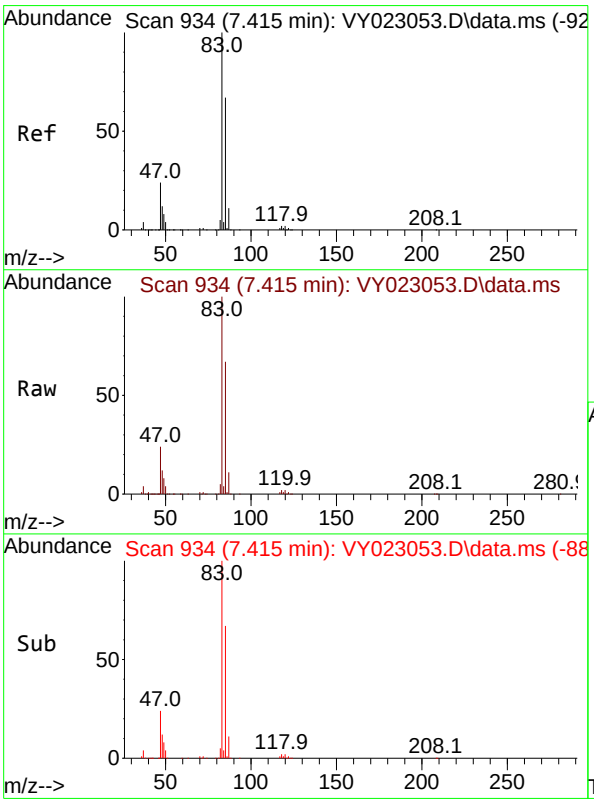
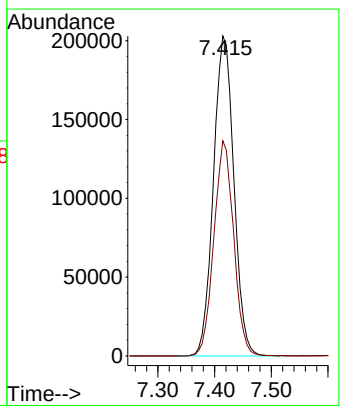
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

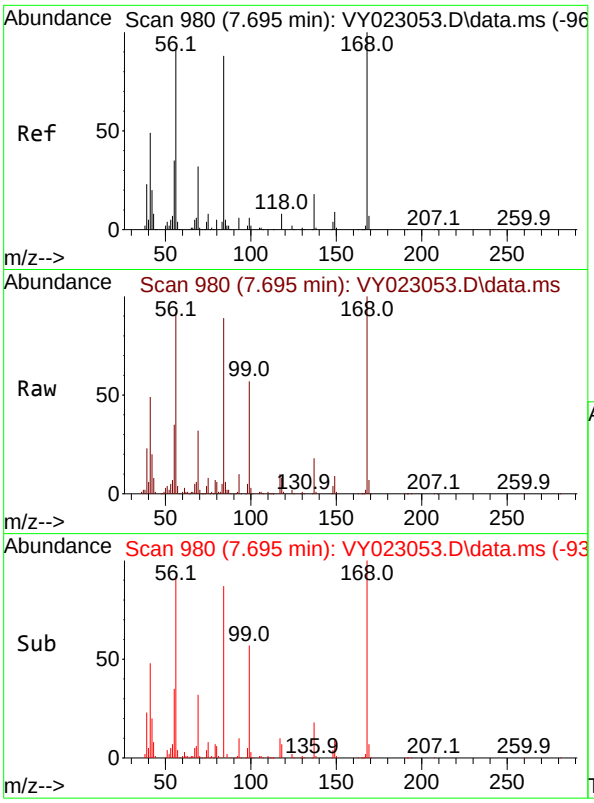


#30
Chloroform
Concen: 48.547 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 508641

Ion	Ratio	Lower	Upper
83	100		
85	67.3	53.8	80.8

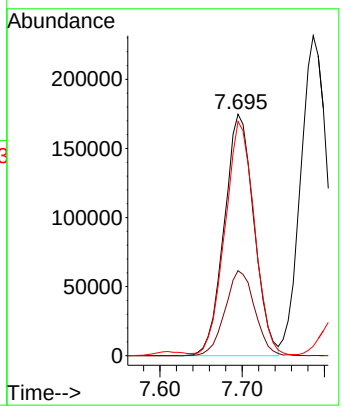




#31
Cyclohexane
Concen: 45.989 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 56 Resp: 44026

Ion	Ratio	Lower	Upper
56	100		
69	35.2	28.2	42.2
84	95.7	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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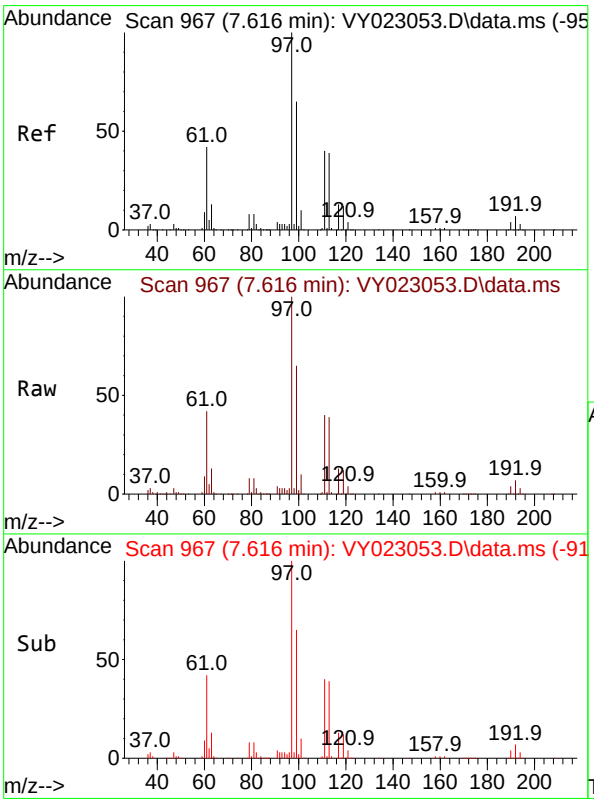
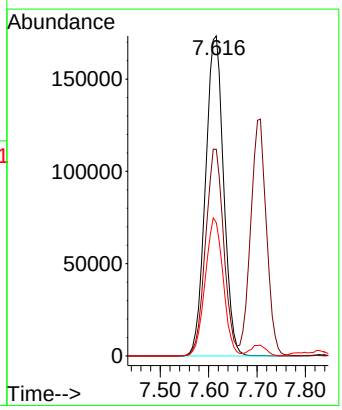
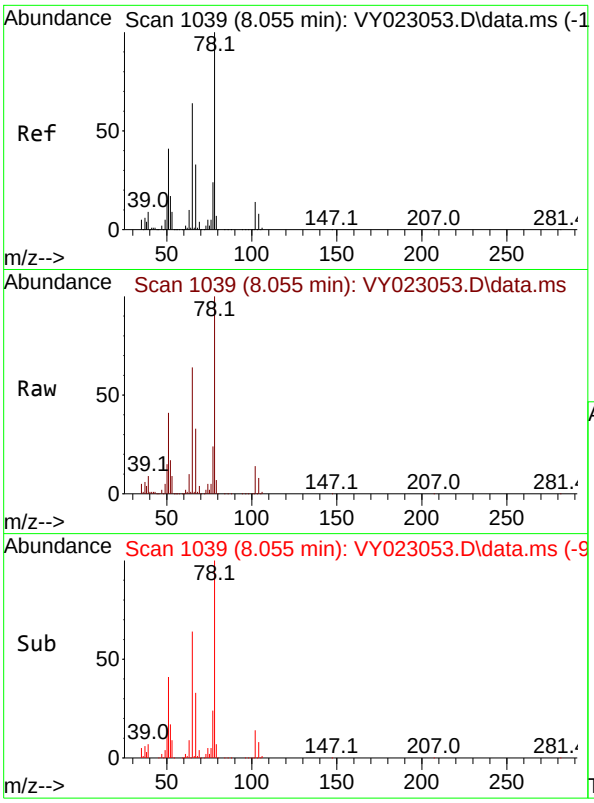


#32
1,1,1-Trichloroethane
Concen: 48.569 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 97 Resp: 451521

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	42.7	34.2	51.2





#33
1,2-Dichloroethane-d4
Concen: 48.455 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 65 Resp: 24904

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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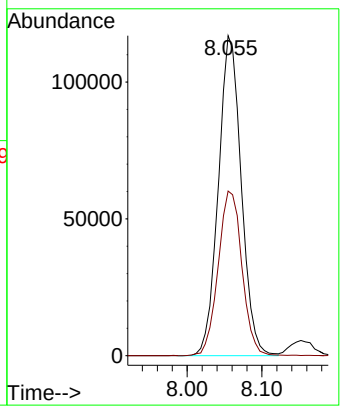
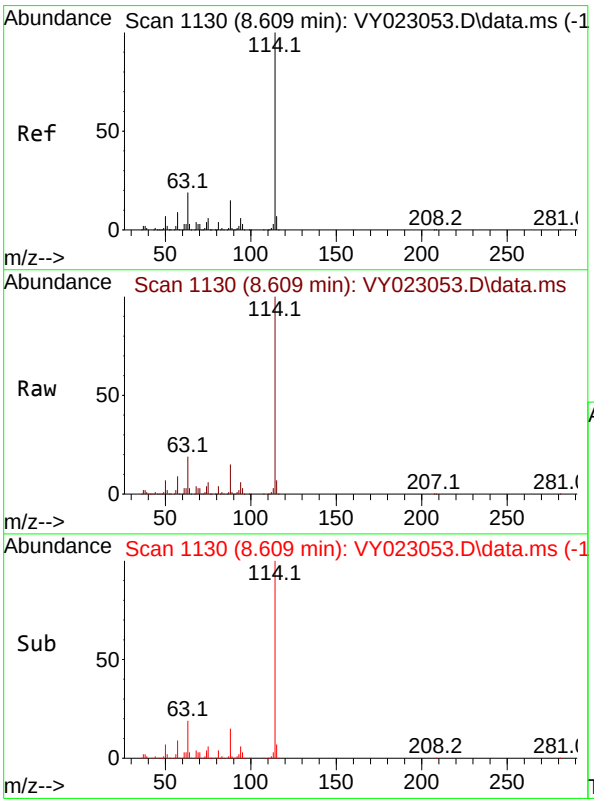
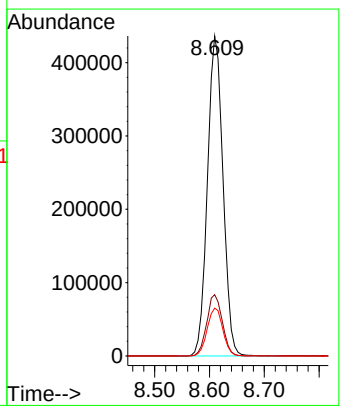


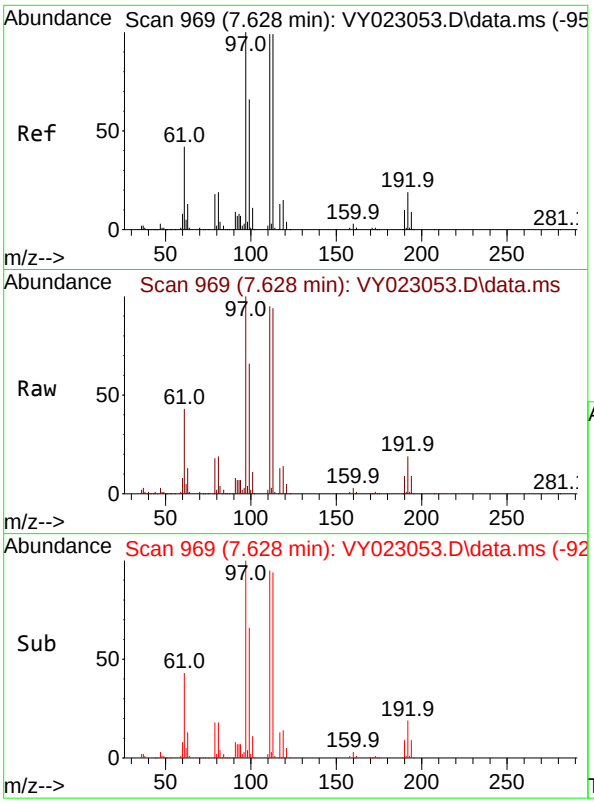


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:114 Resp: 856556

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	15.0	0.0	30.0





#35
Dibromofluoromethane
Concen: 49.010 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:113 Resp: 25119

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	20.3	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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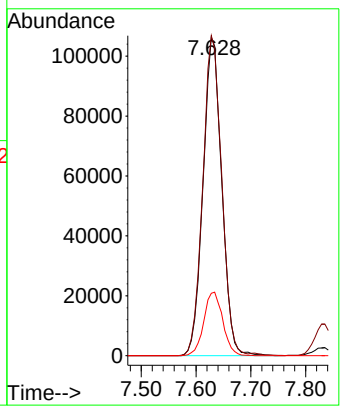
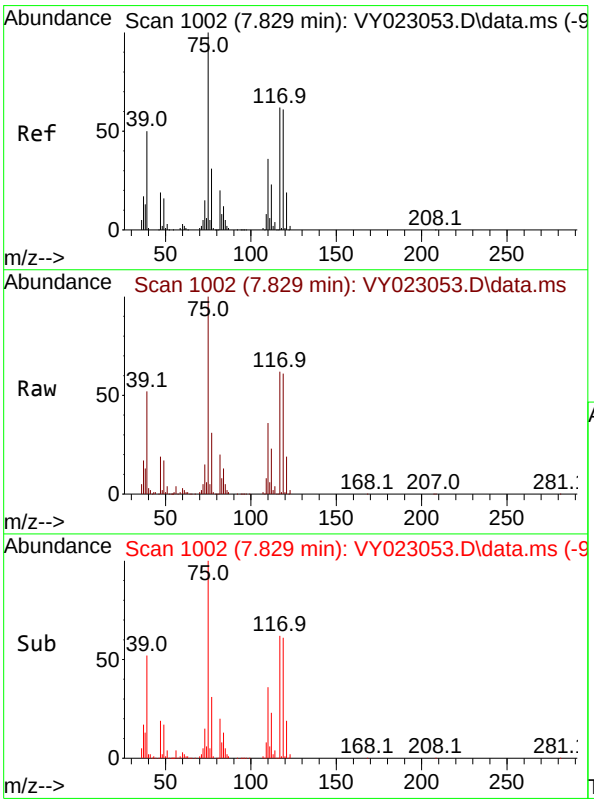
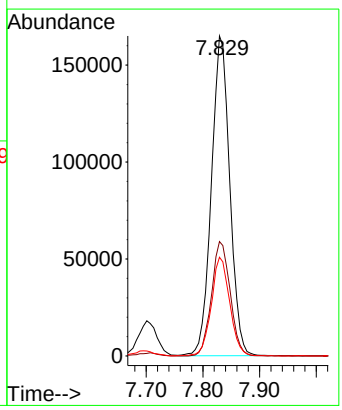


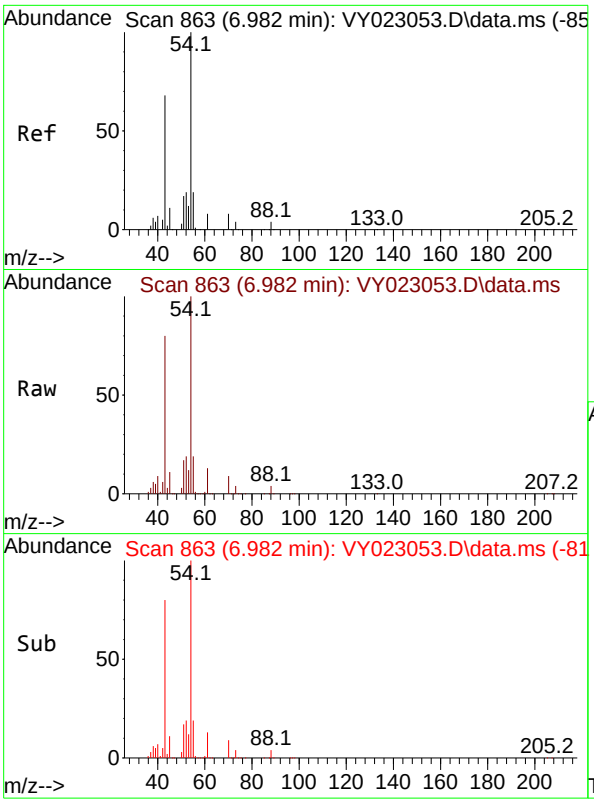


#36
1,1-Dichloropropene
Concen: 48.734 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 371204

Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.1	54.4
77	30.8	24.6	37.0





#37
Ethyl Acetate
Concen: 50.311 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 16098

Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.9	17.9
70	11.0	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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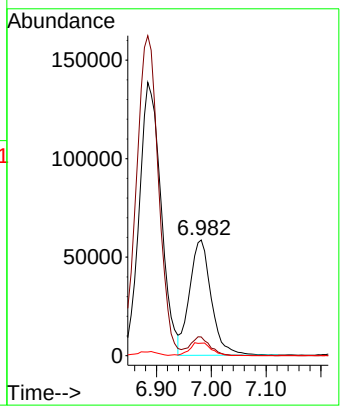
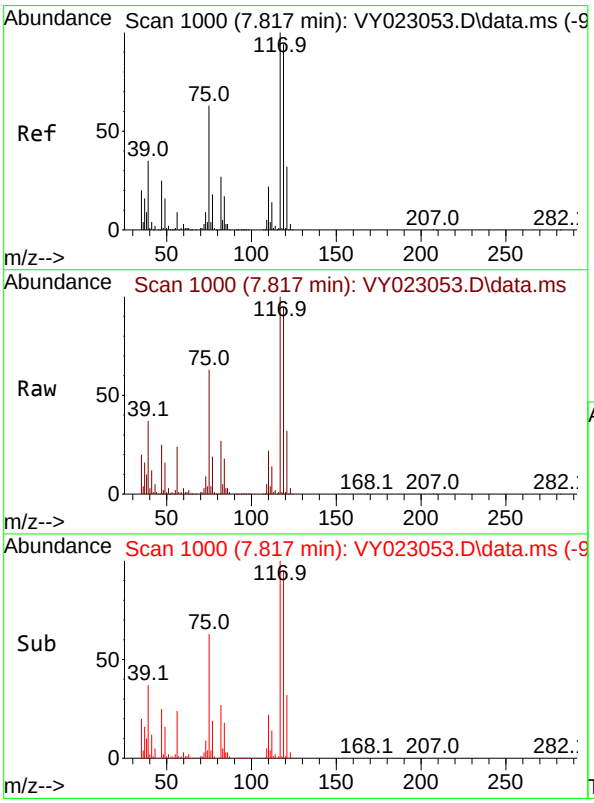
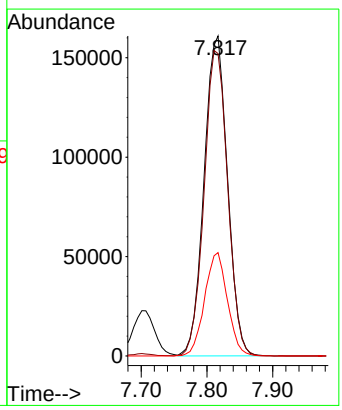


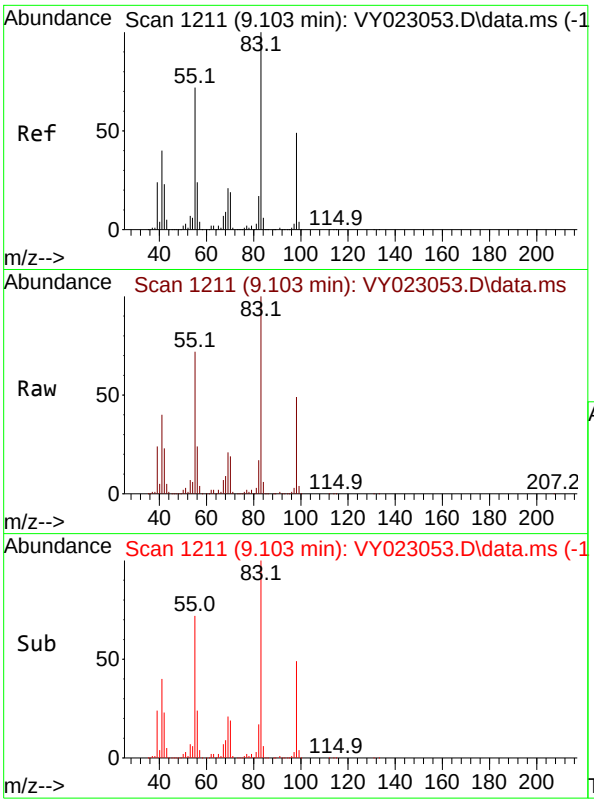


#38
Carbon Tetrachloride
Concen: 48.285 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 399463

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	32.3	25.8	38.8





#39
Methylcyclohexane
Concen: 48.321 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 48469

Ion	Ratio	Lower	Upper
83	100		
55	72.0	57.6	86.4
98	49.0	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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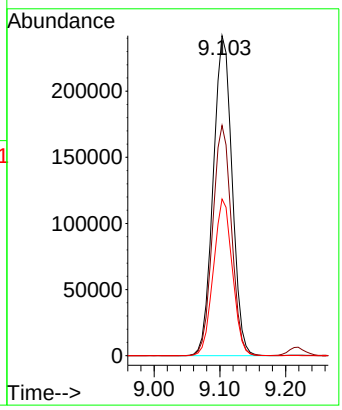
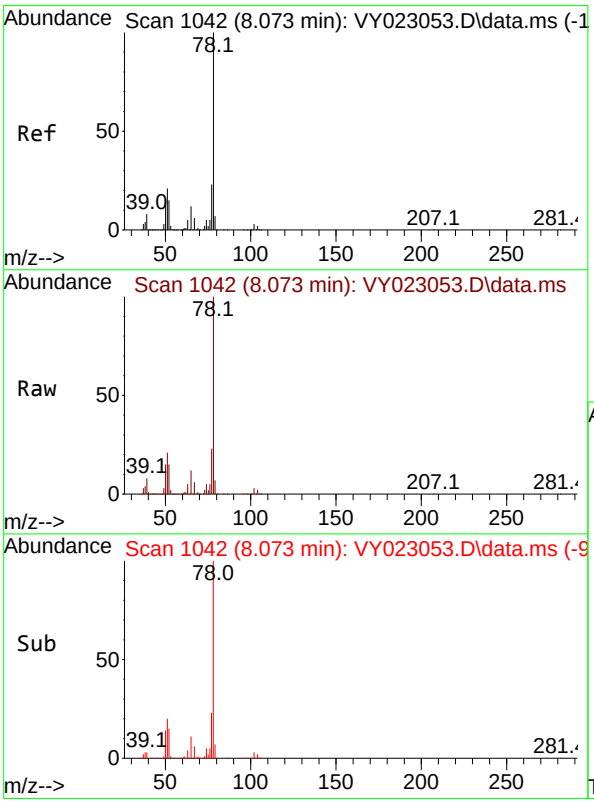
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

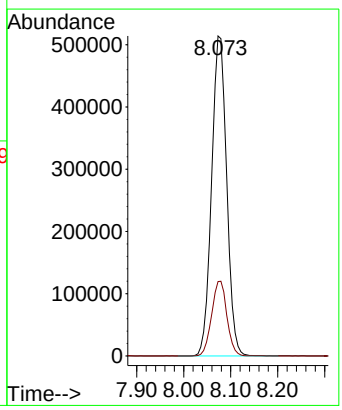


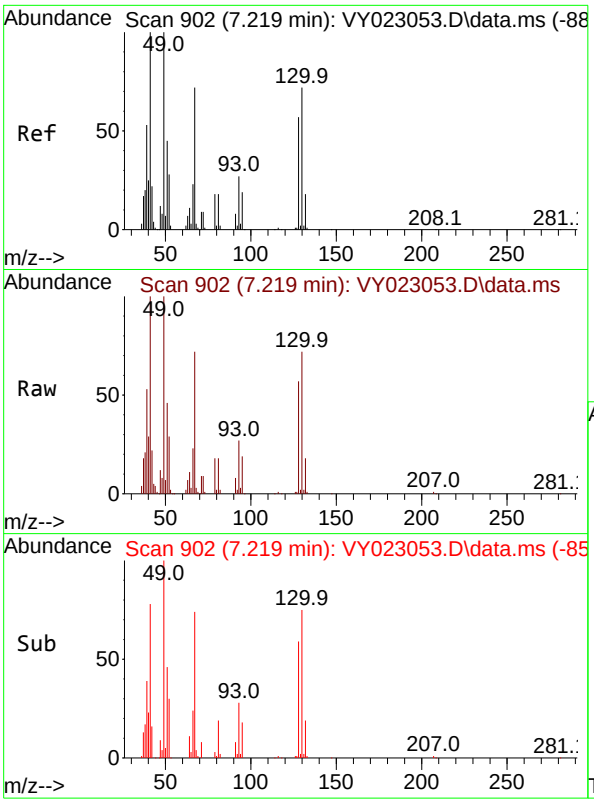


#40
Benzene
Concen: 48.683 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 78 Resp: 1142910

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0

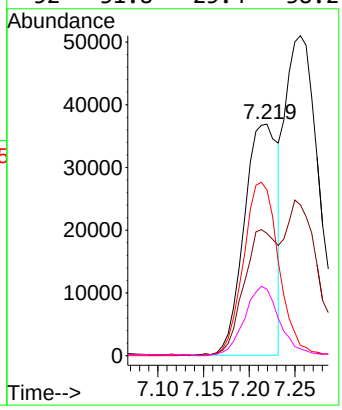




#41
Methacrylonitrile
Concen: 50.916 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 9412

Ion	Ratio	Lower	Upper
41	100		
39	54.3	43.4	65.2
67	79.5	63.6	95.4
52	31.8	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
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Manual Integrations
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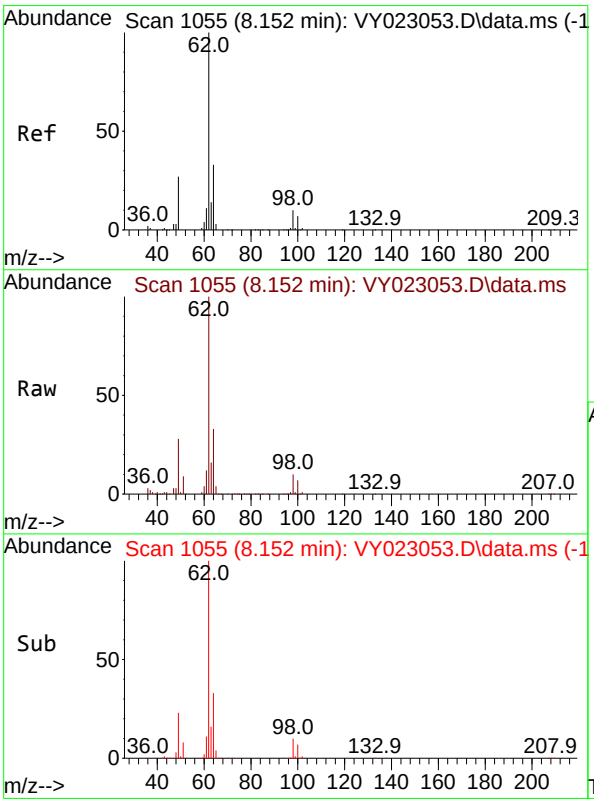
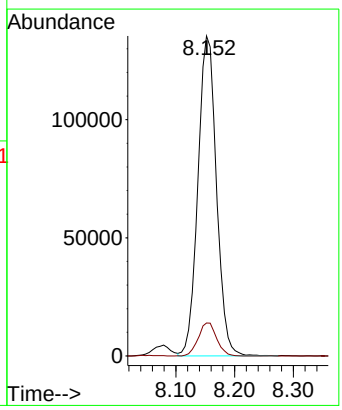
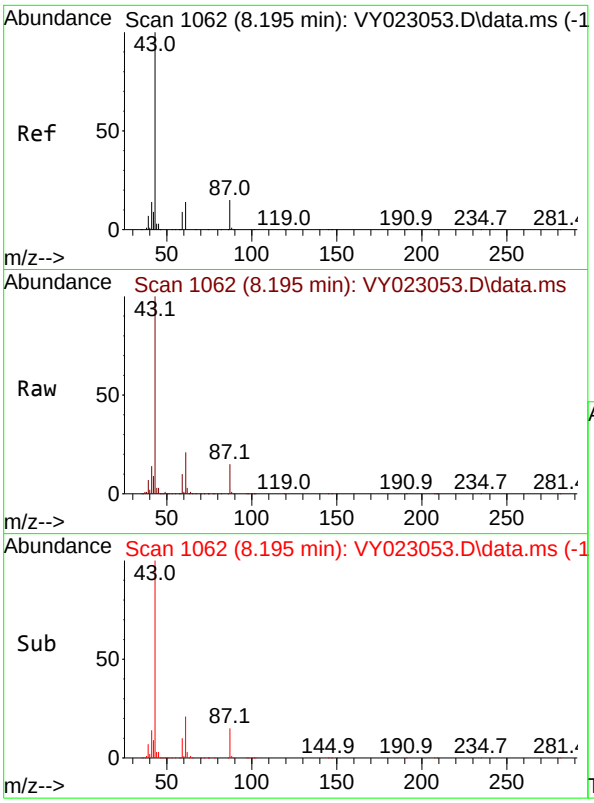


#42
1,2-Dichloroethane
Concen: 48.627 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 296907

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6

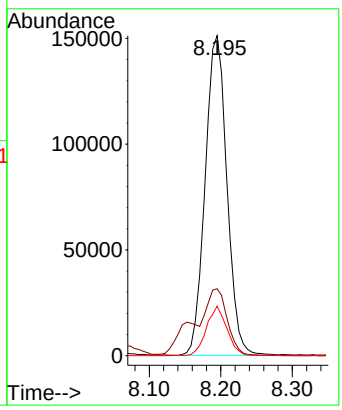




#43
Isopropyl Acetate
Concen: 49.419 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 31960

Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.4	24.6
87	14.7	11.8	17.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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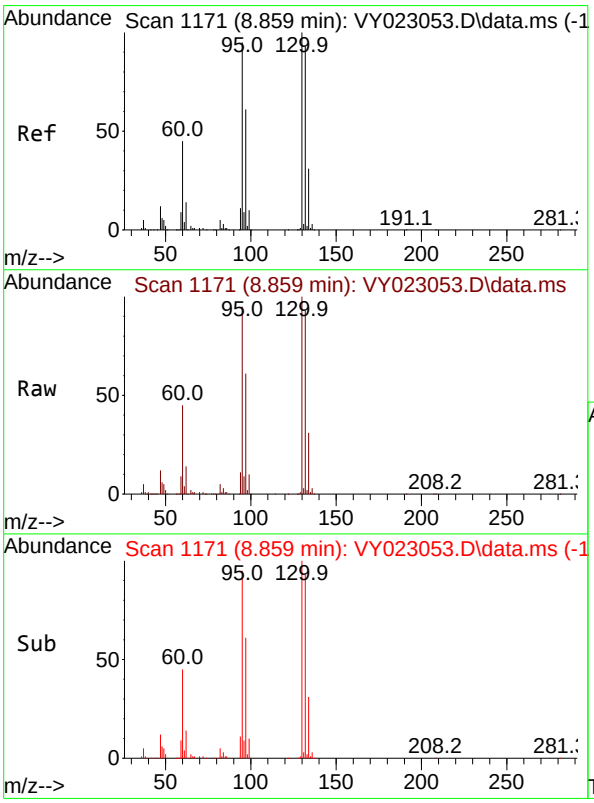
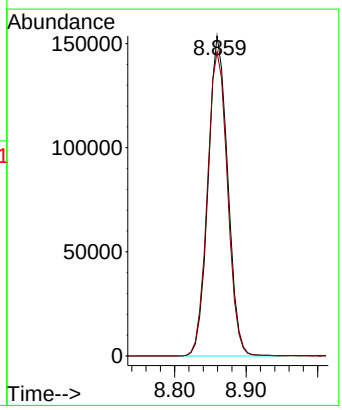
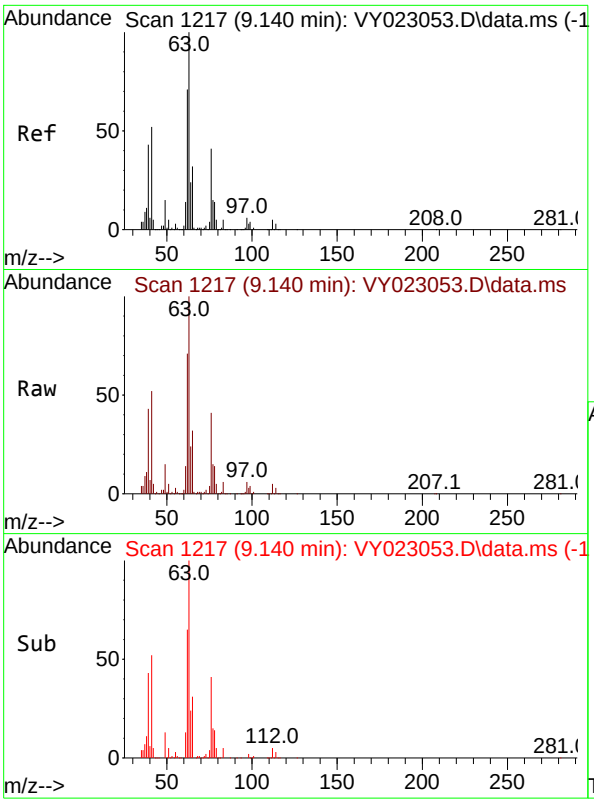


#44
Trichloroethene
Concen: 48.199 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:130 Resp: 292421

Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	190.2





#45
1,2-Dichloropropane
Concen: 48.938 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 26435

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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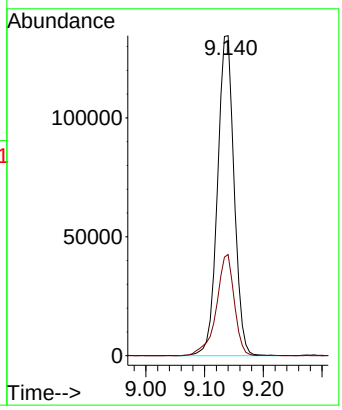
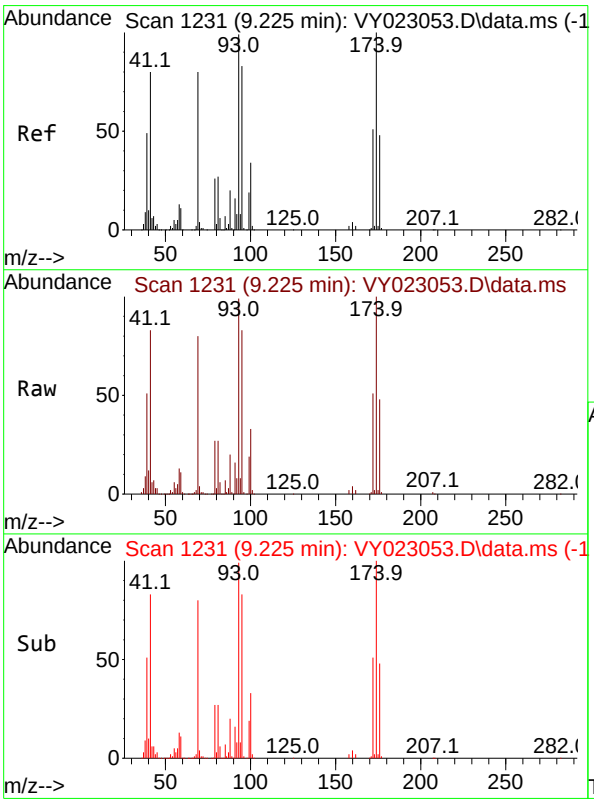
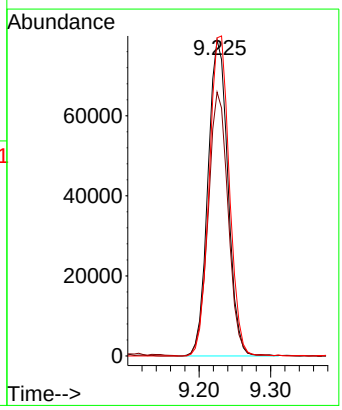


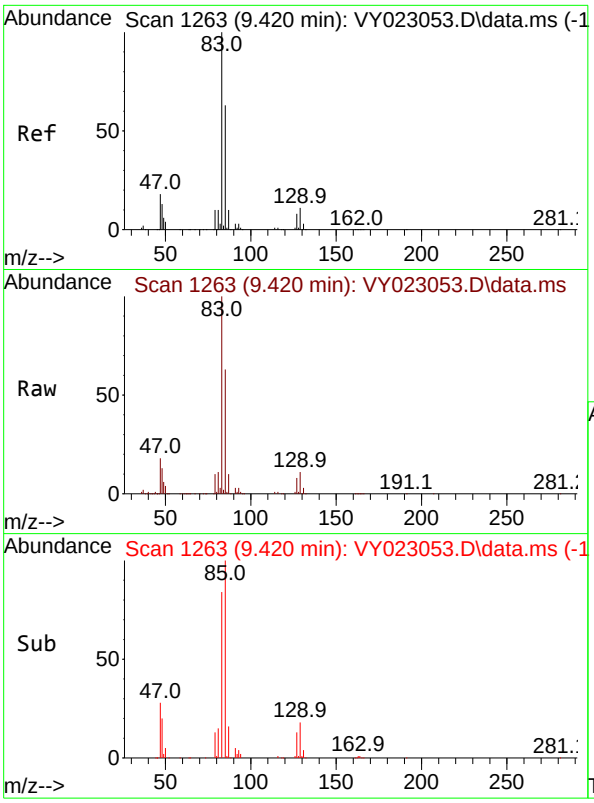


#46
Dibromomethane
Concen: 49.291 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 93 Resp: 152822

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.5	99.7
174	102.3	81.8	122.8

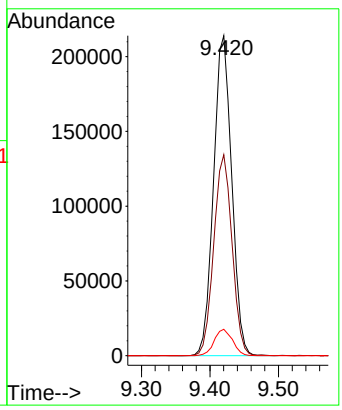




#47
Bromodichloromethane
Concen: 49.327 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 39352

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	8.3	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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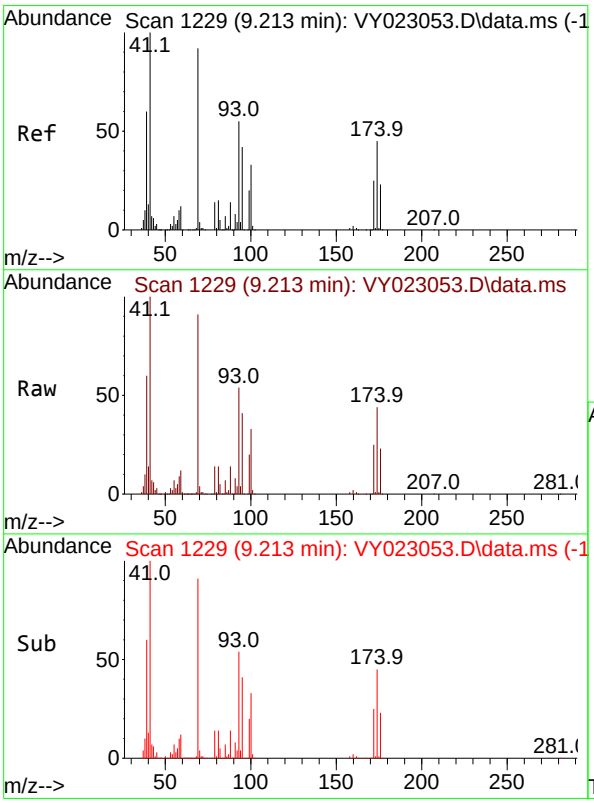
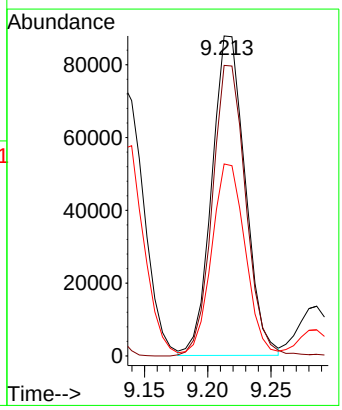
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

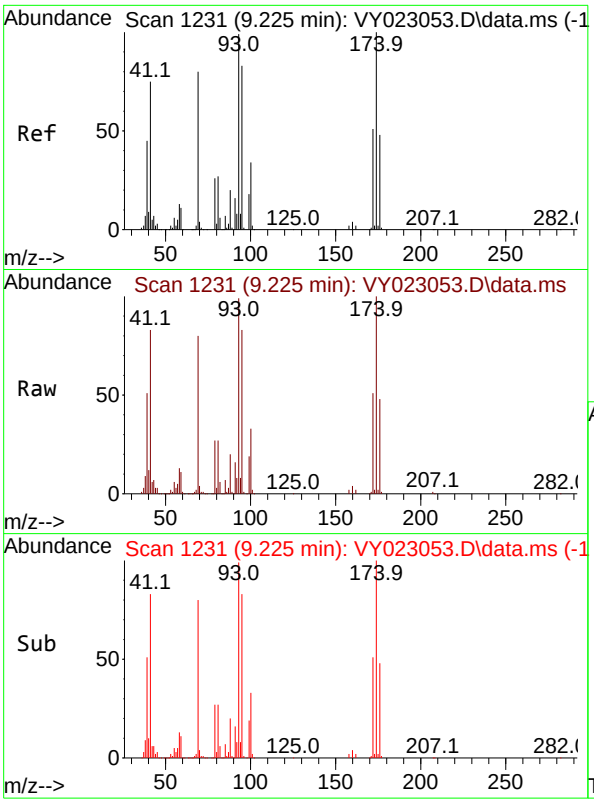


#48
Methyl methacrylate
Concen: 51.958 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 160792

Ion	Ratio	Lower	Upper
41	100		
69	91.5	73.2	109.8
39	58.7	47.0	70.4

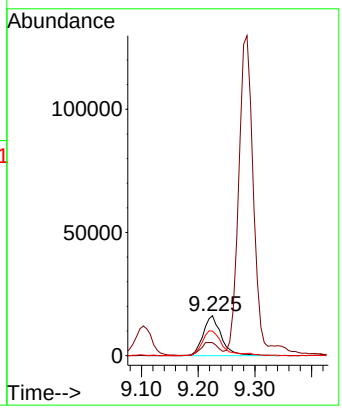




#49
1,4-Dioxane
Concen: 997.124 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 88 Resp: 3624

Ion	Ratio	Lower	Upper
88	100		
43	30.4	24.3	36.5
58	69.2	55.4	83.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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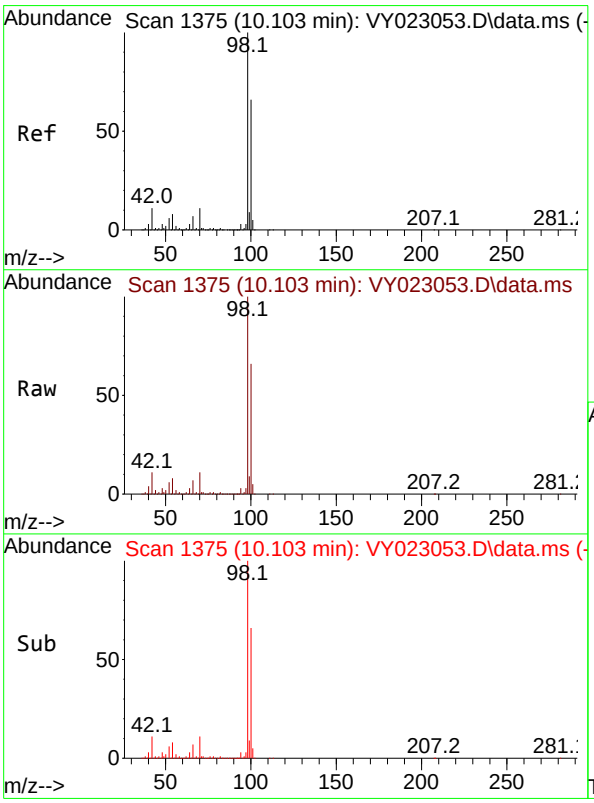
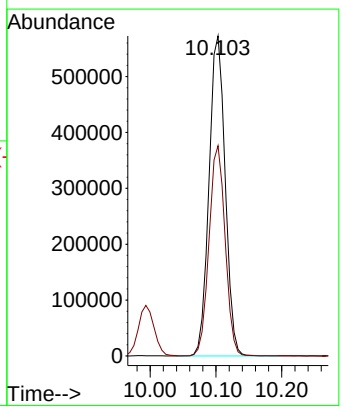
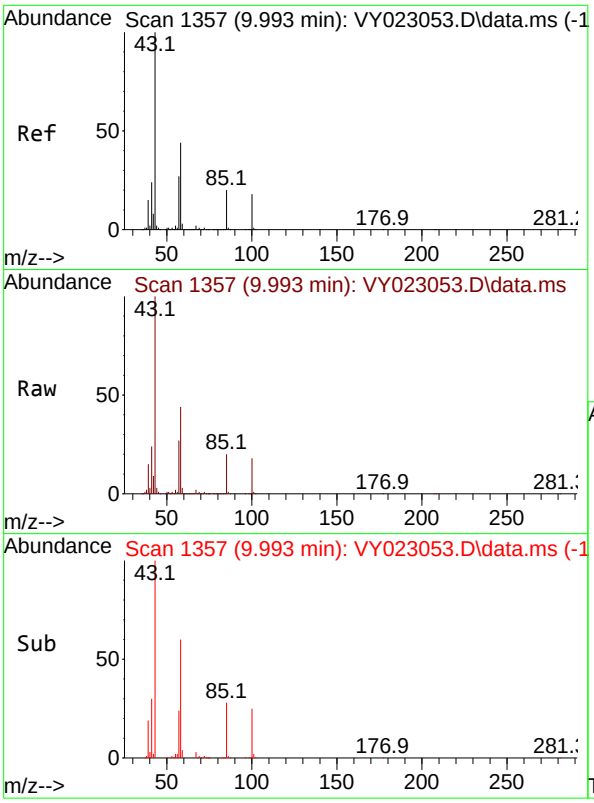


#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 98 Resp: 979082

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5

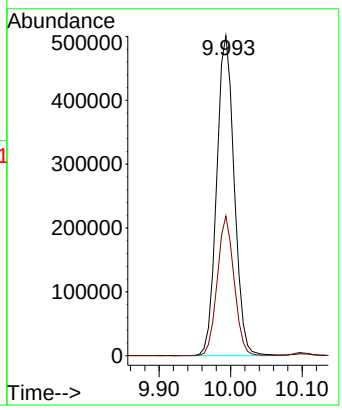




#51
4-Methyl-2-Pentanone
Concen: 255.710 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 85302

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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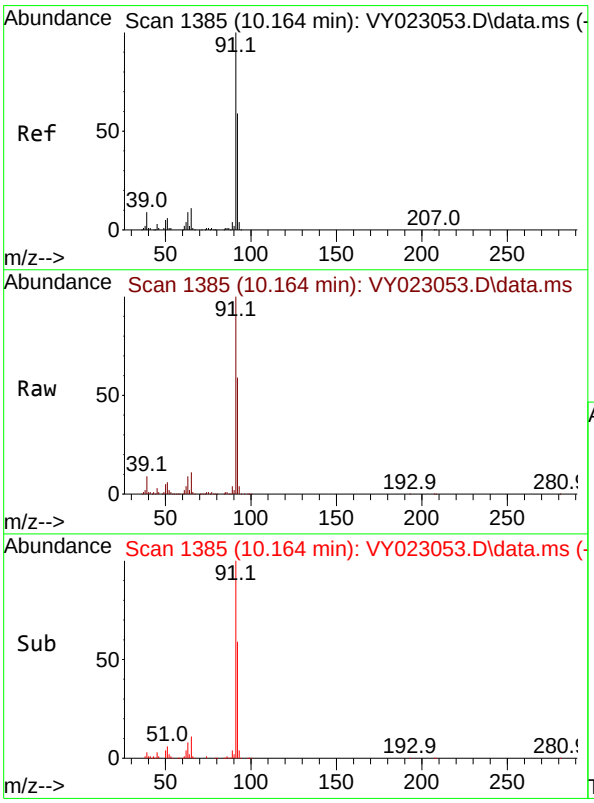
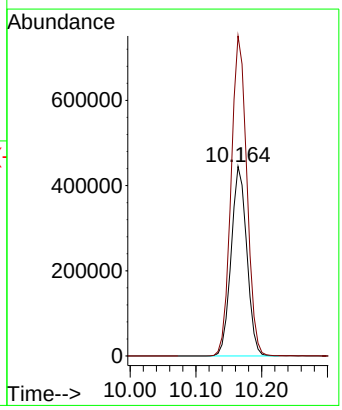
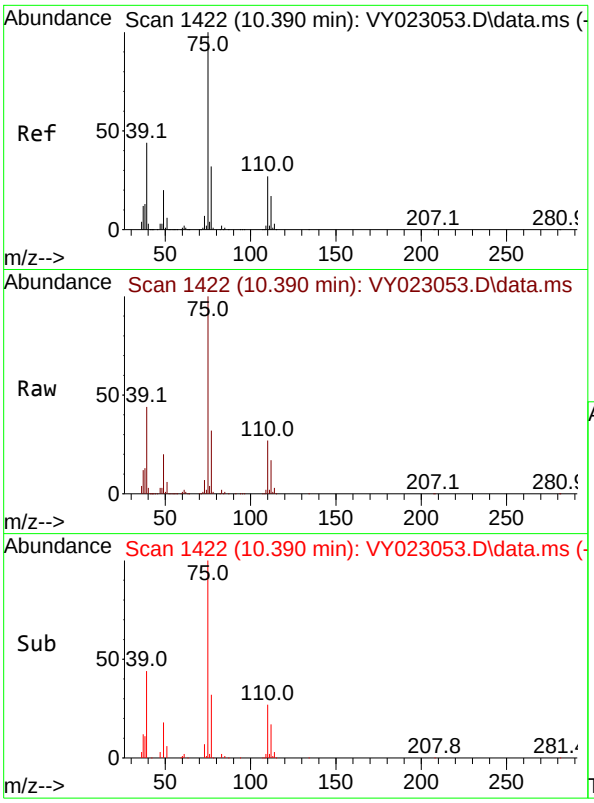


#52
Toluene
Concen: 49.315 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 92 Resp: 735326

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 49.790 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 35969

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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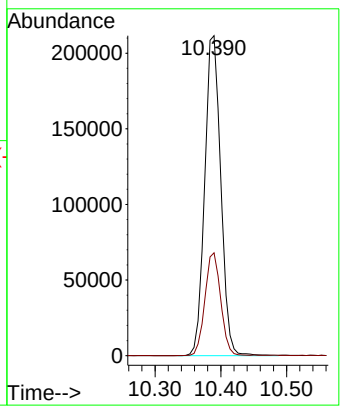
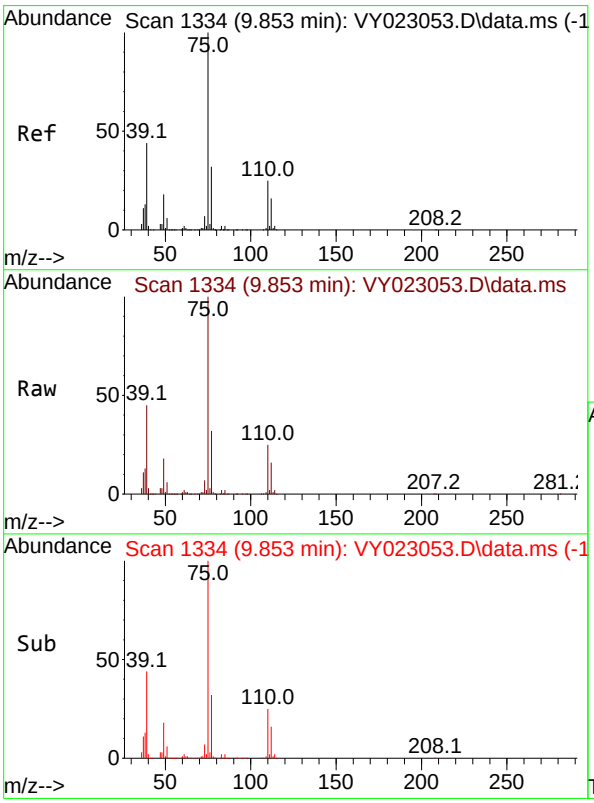
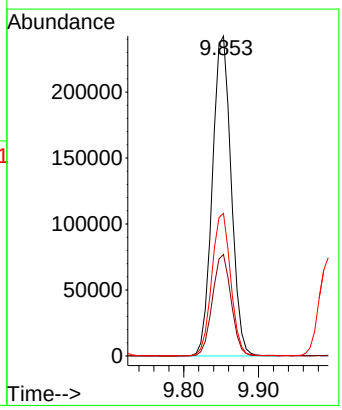


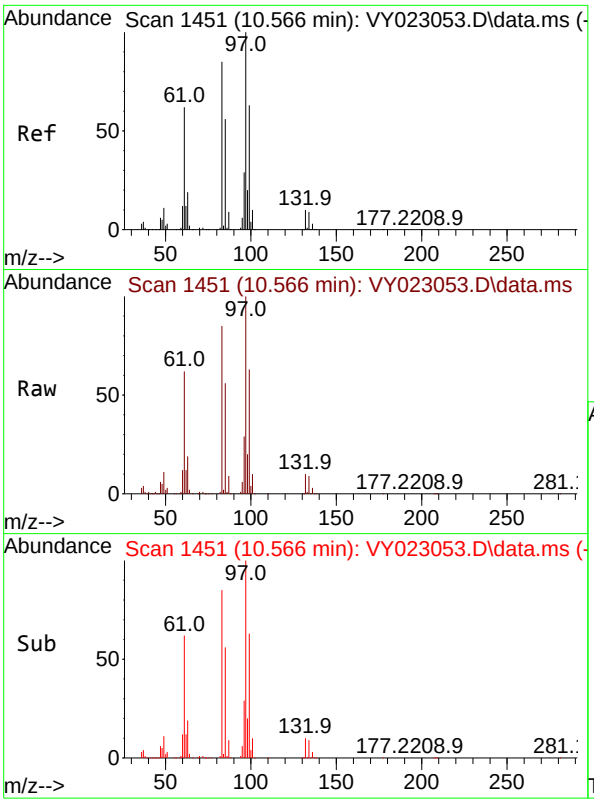


#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 424834

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	44.5	35.6	53.4

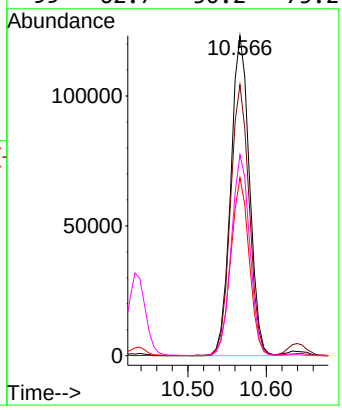




#55
1,1,2-Trichloroethane
Concen: 49.261 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 97 Resp: 20436

Ion	Ratio	Lower	Upper
97	100		
83	84.6	67.7	101.5
85	55.6	44.5	66.7
99	62.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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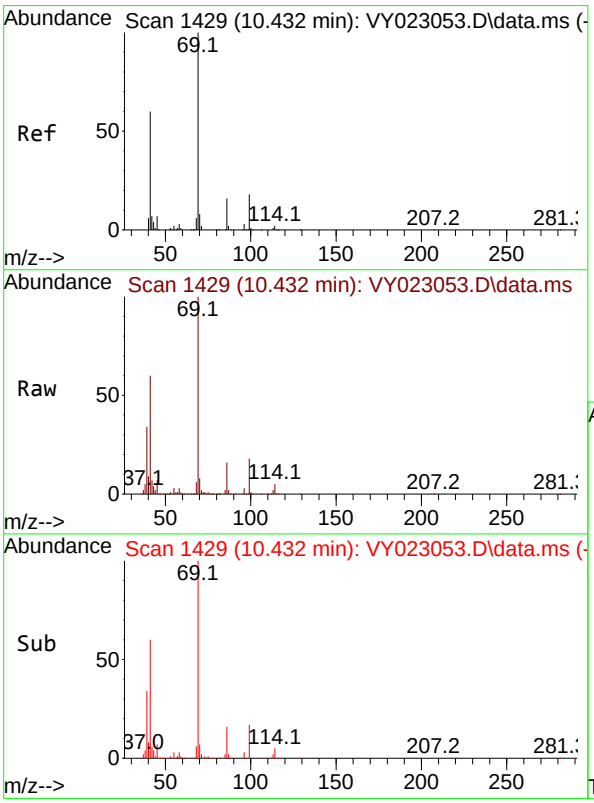
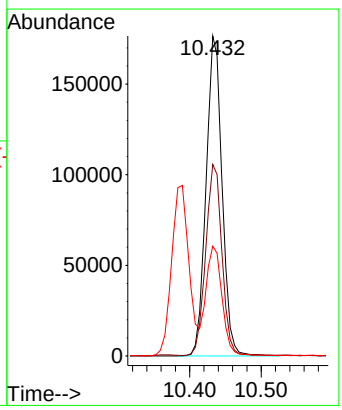
Supervised By :Semsettin Yesilyurt 08/14/2025

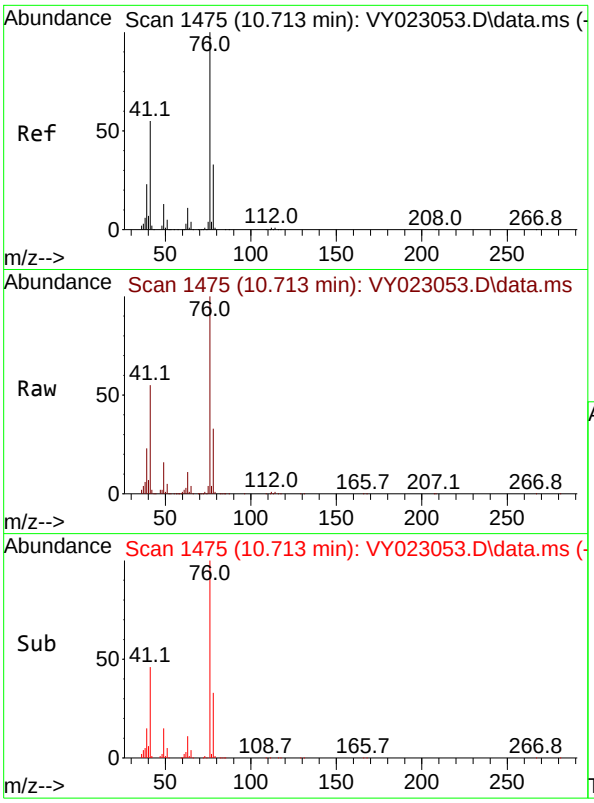


#56
Ethyl methacrylate
Concen: 51.576 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 69 Resp: 273801

Ion	Ratio	Lower	Upper
69	100		
41	60.7	48.6	72.8
39	33.7	27.0	40.4

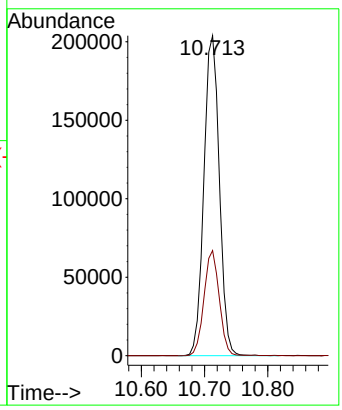




#57
1,3-Dichloropropane
Concen: 49.249 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 76 Resp: 34651

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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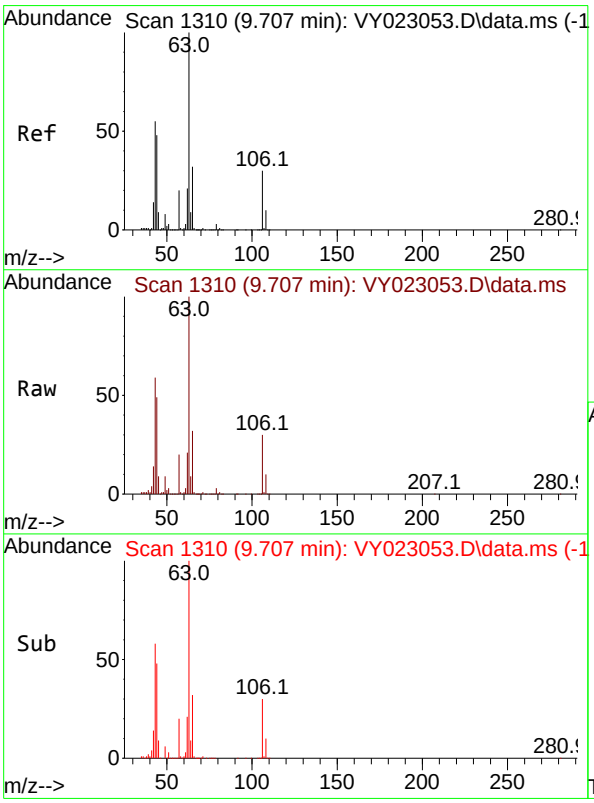
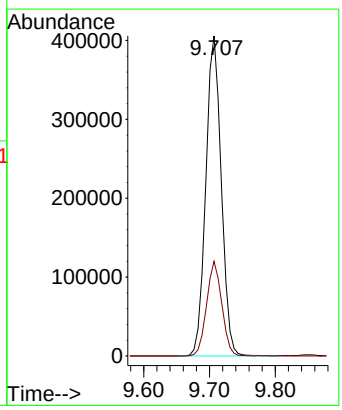
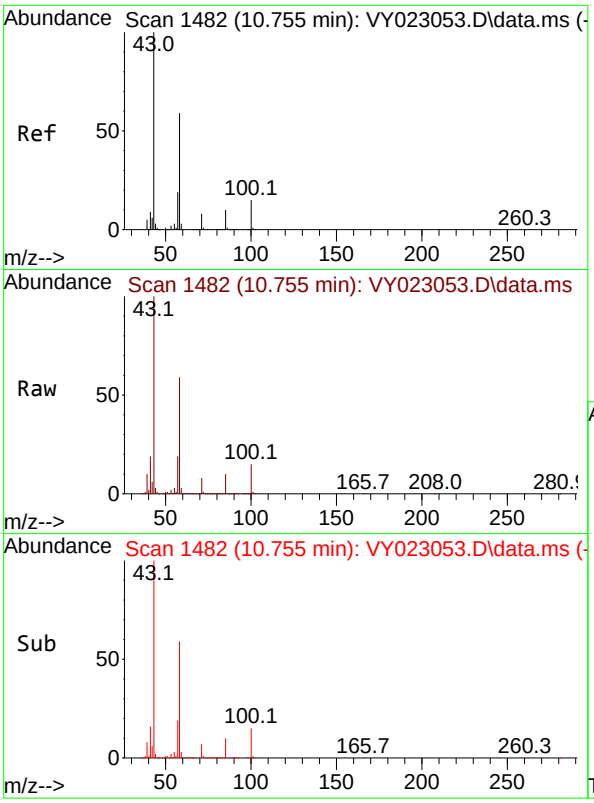


#58
2-Chloroethyl Vinyl ether
Concen: 264.906 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 663351

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.2	34.8





#59
2-Hexanone
Concen: 257.194 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 58422

Ion	Ratio	Lower	Upper
43	100		
58	59.0	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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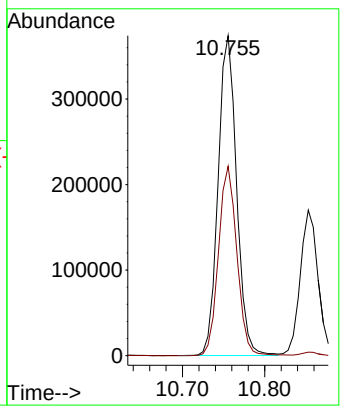
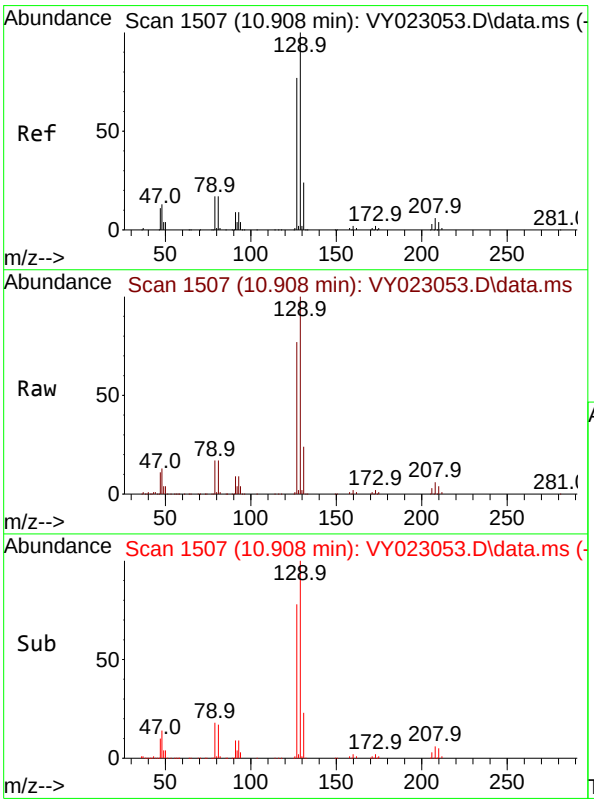
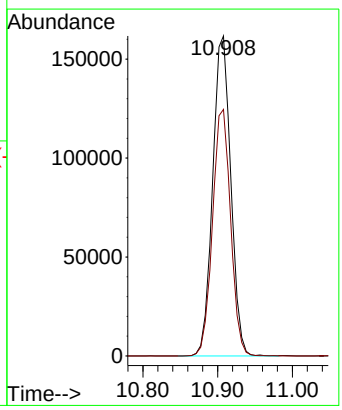


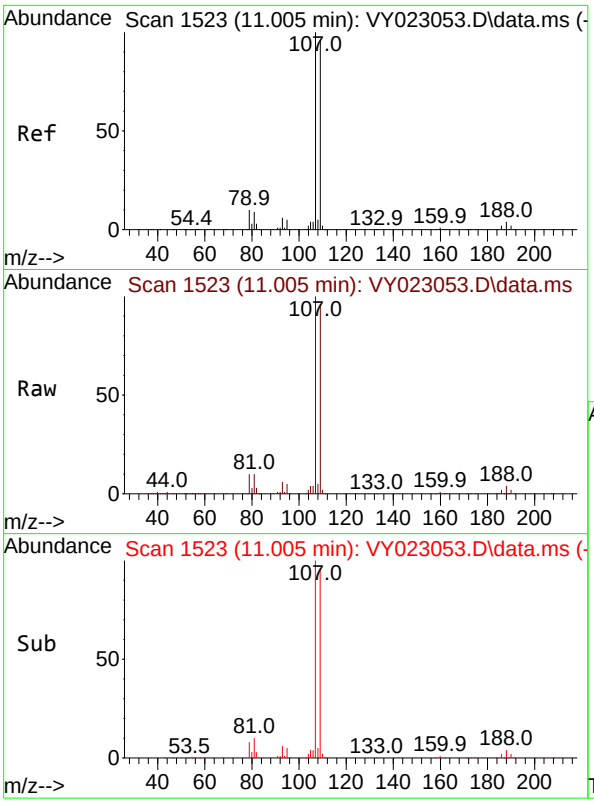


#60
Dibromochloromethane
Concen: 49.719 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:129 Resp: 272171

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 49.598 ug/l
RT: 11.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:107 Resp: 19339

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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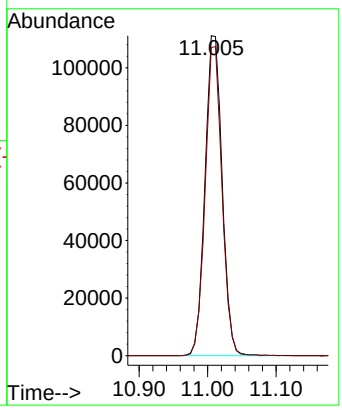
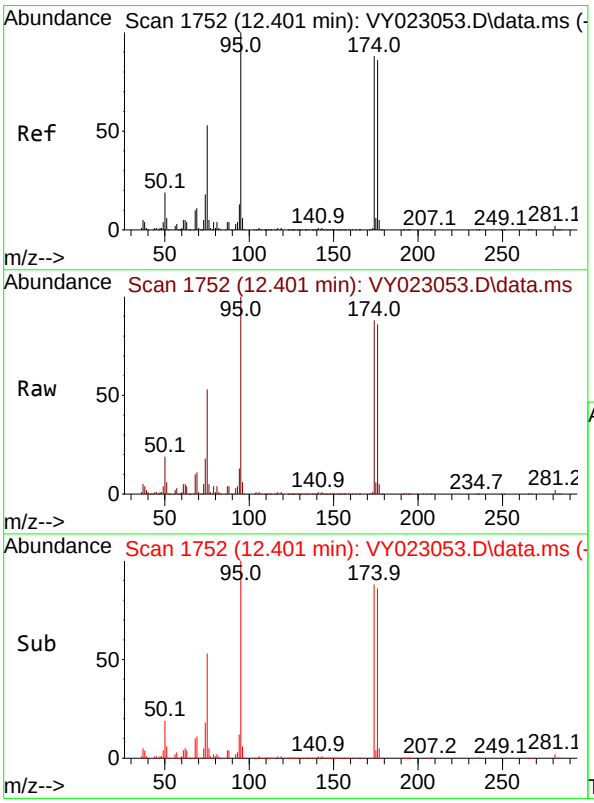
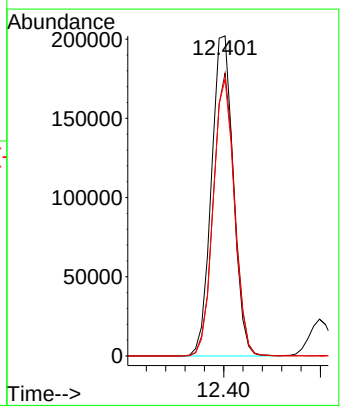


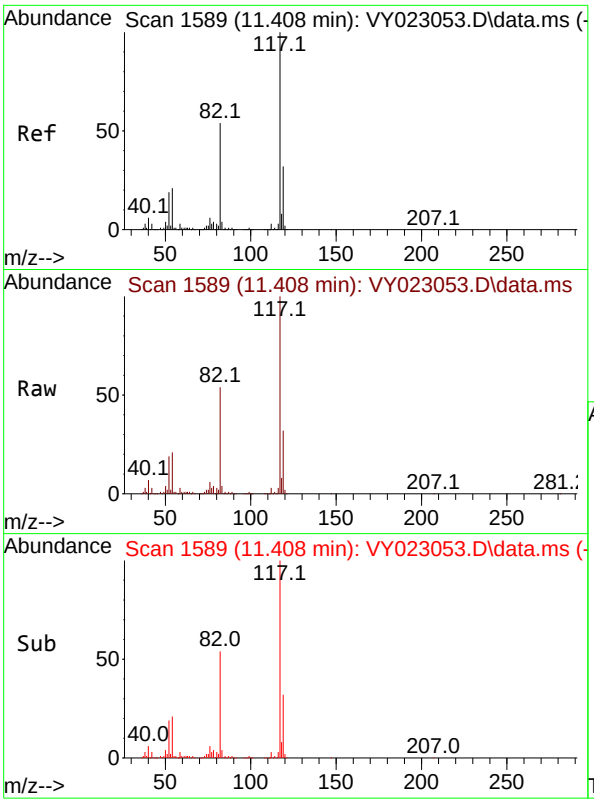


#62
4-Bromofluorobenzene
Concen: 49.194 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 95 Resp: 316770

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	171.6
176	83.8	0.0	167.6

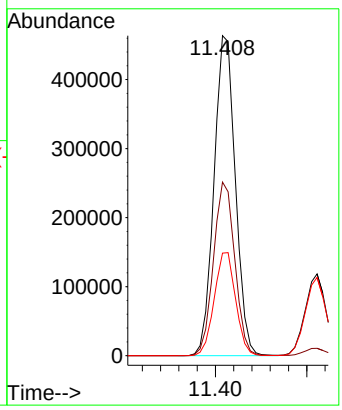




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 75196

Ion	Ratio	Lower	Upper
117	100		
82	54.2	43.4	65.0
119	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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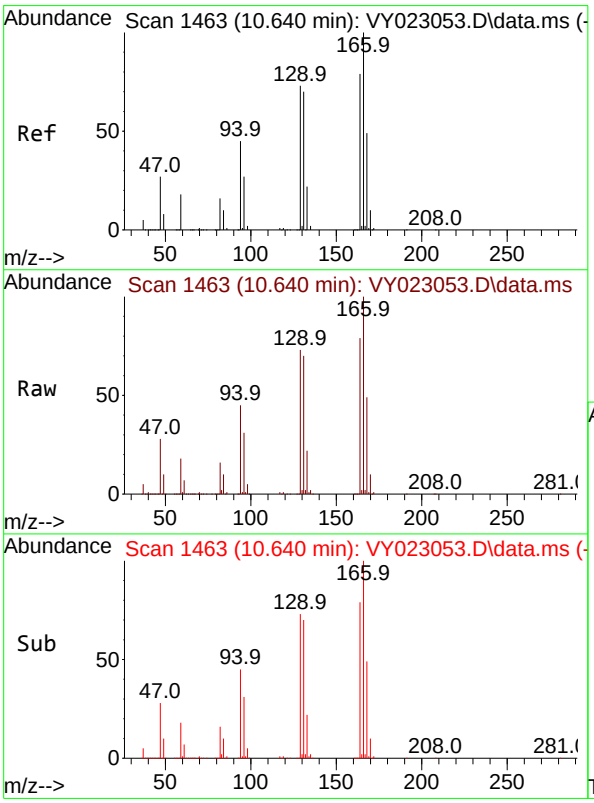
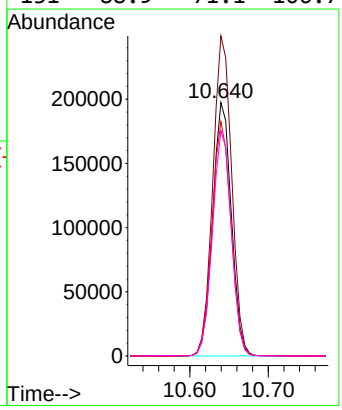
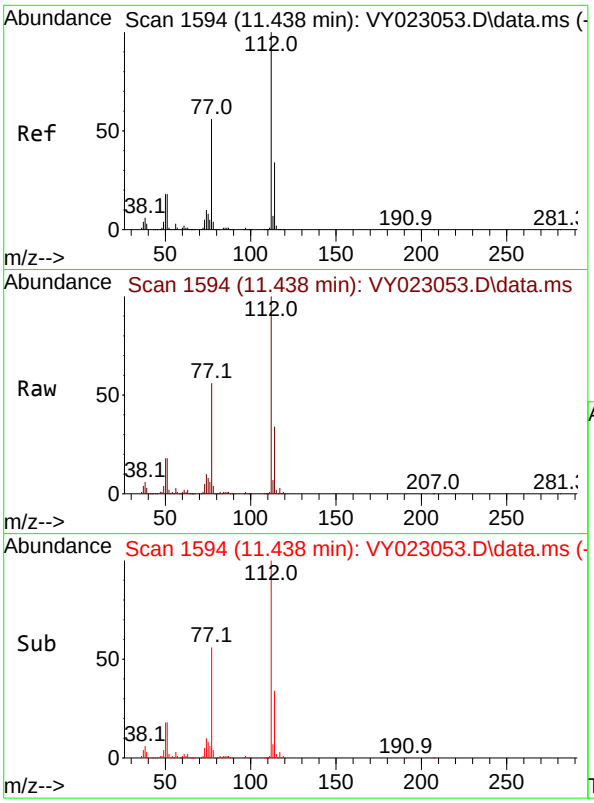


#64
Tetrachloroethene
Concen: 48.740 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:164 Resp: 327271

Ion	Ratio	Lower	Upper
164	100		
166	126.4	101.1	151.7
129	92.5	74.0	111.0
131	88.9	71.1	106.7

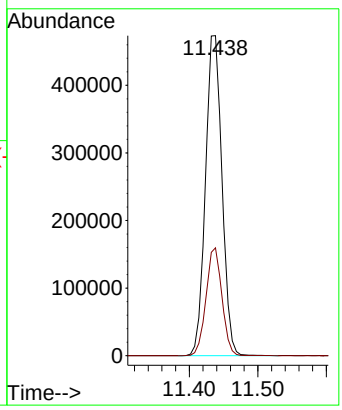




#65
Chlorobenzene
Concen: 48.920 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:112 Resp: 79349

Ion	Ratio	Lower	Upper
112	100		
114	33.7	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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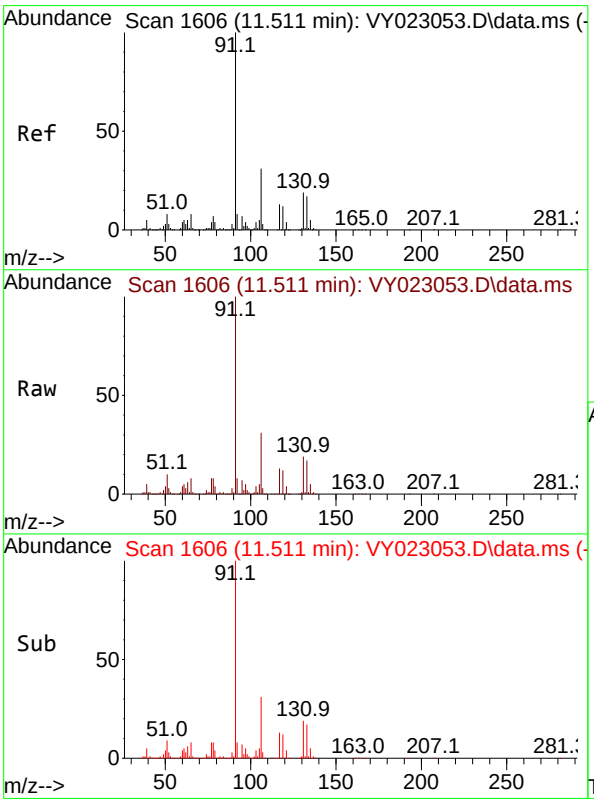
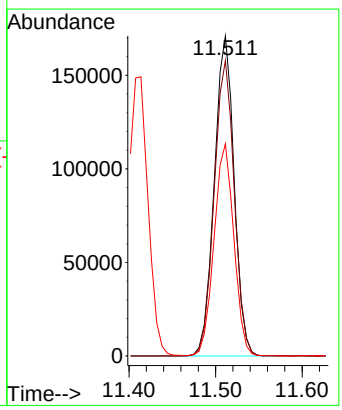
Supervised By :Semsettin Yesilyurt 08/14/2025

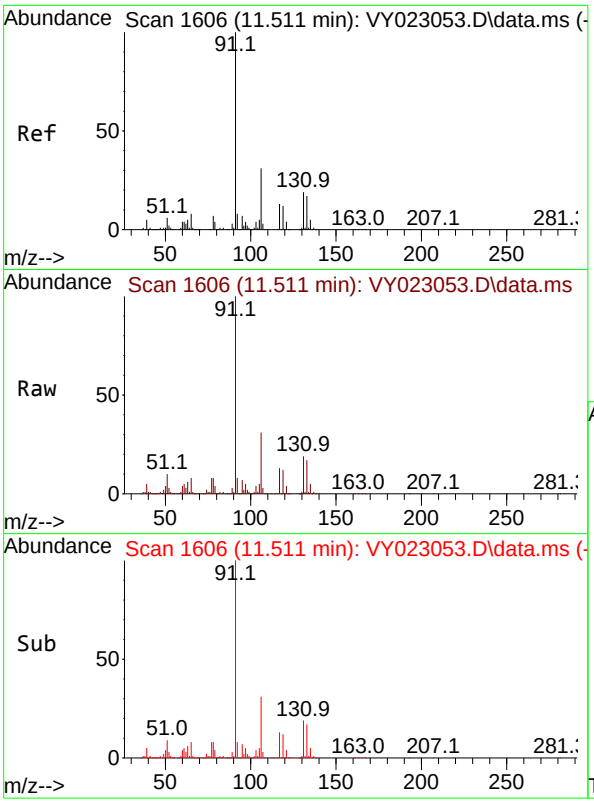


#66
1,1,1,2-Tetrachloroethane
Concen: 49.381 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:131 Resp: 271839

Ion	Ratio	Lower	Upper
131	100		
133	93.7	46.9	140.6
119	66.4	33.2	99.6

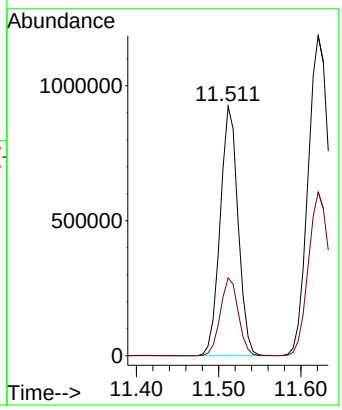




#67
Ethyl Benzene
Concen: 50.073 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 139770

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4



Instrument :
MSVOA_Y
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VSTDICCC050

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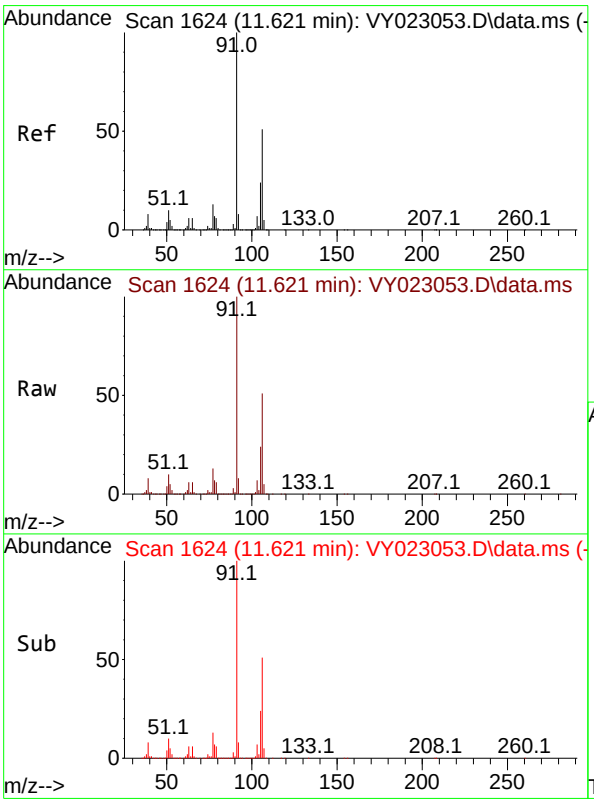
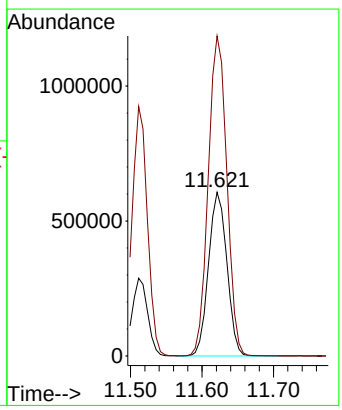
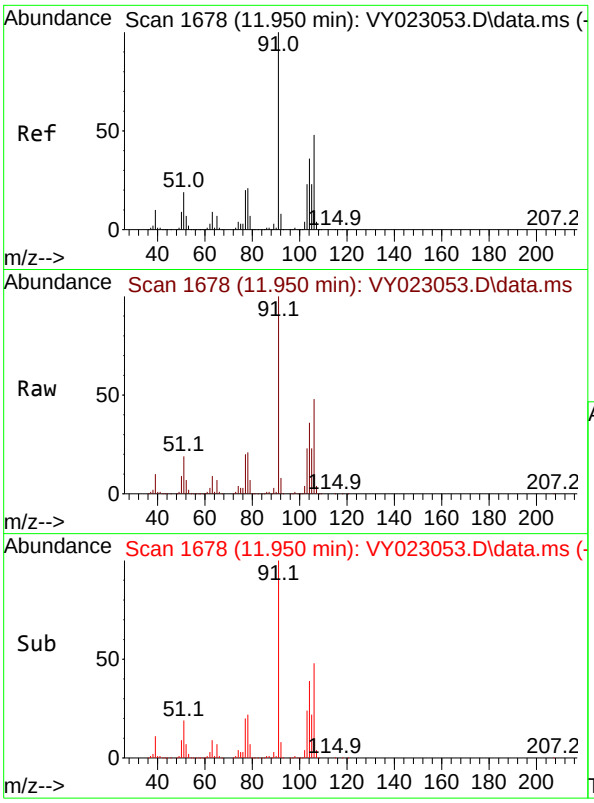


#68
m/p-Xylenes
Concen: 99.103 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 1080401

Ion	Ratio	Lower	Upper
106	100		
91	198.3	158.6	238.0





#69
o-Xylene
Concen: 50.536 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 51600

Ion	Ratio	Lower	Upper
106	100		
91	206.3	103.2	309.4

Instrument :
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ClientSampleId :
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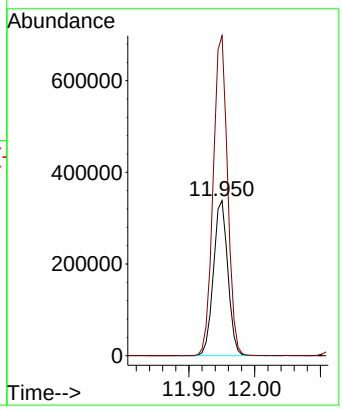
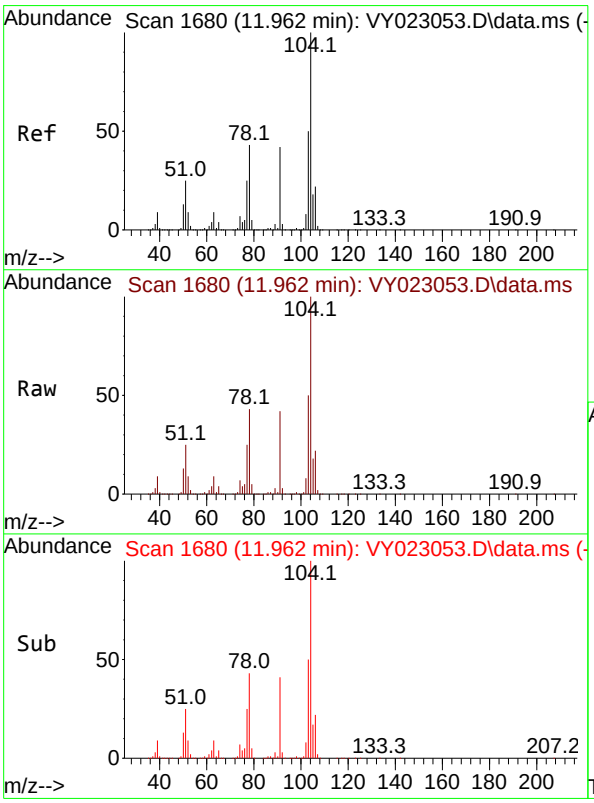
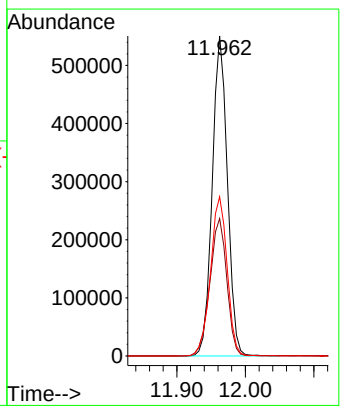


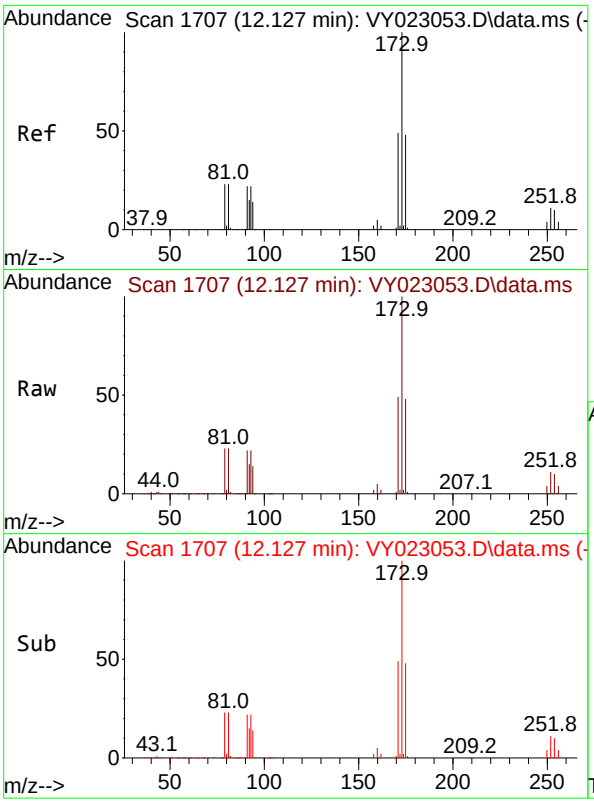


#70
Styrene
Concen: 50.569 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:104 Resp: 844409

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	54.6	43.7	65.5

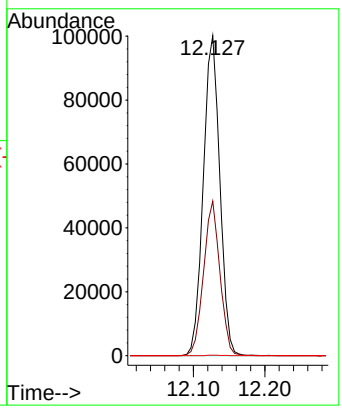




#71
Bromoform
Concen: 49.969 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:173 Resp: 16076

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
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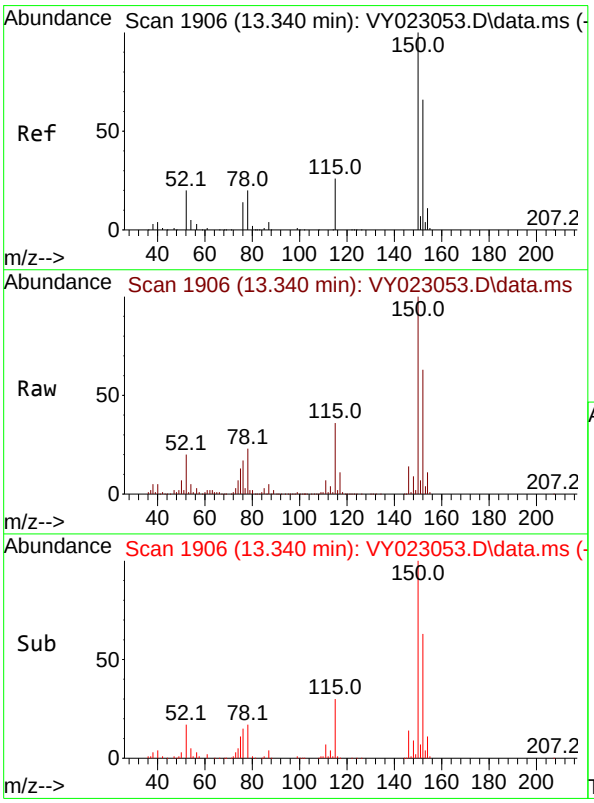
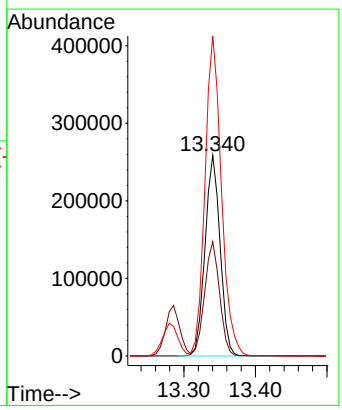
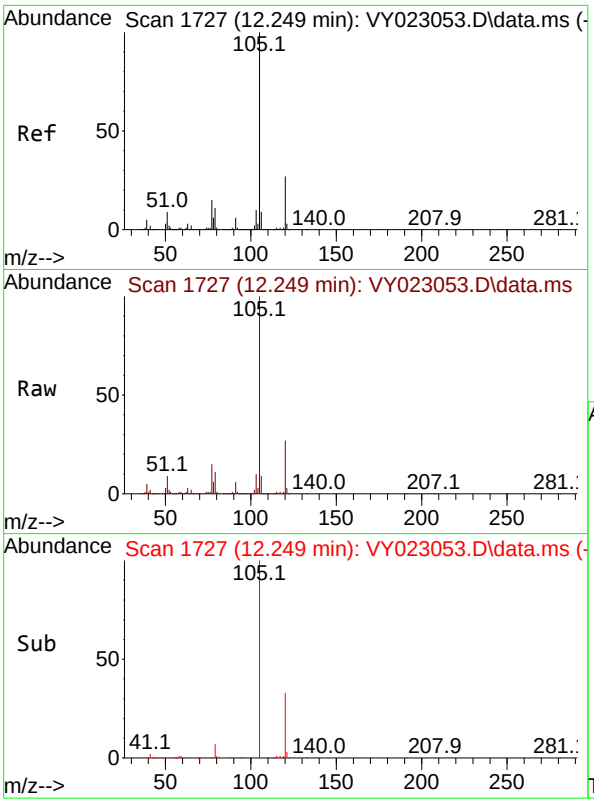


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:152 Resp: 377839

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	174.0	0.0	348.0

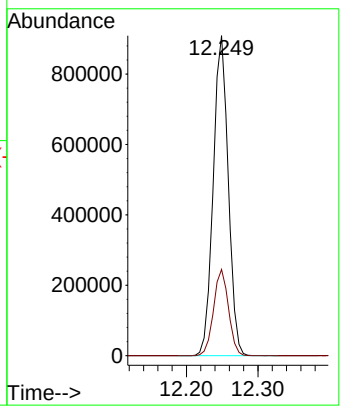




#73
Isopropylbenzene
Concen: 49.660 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 132431

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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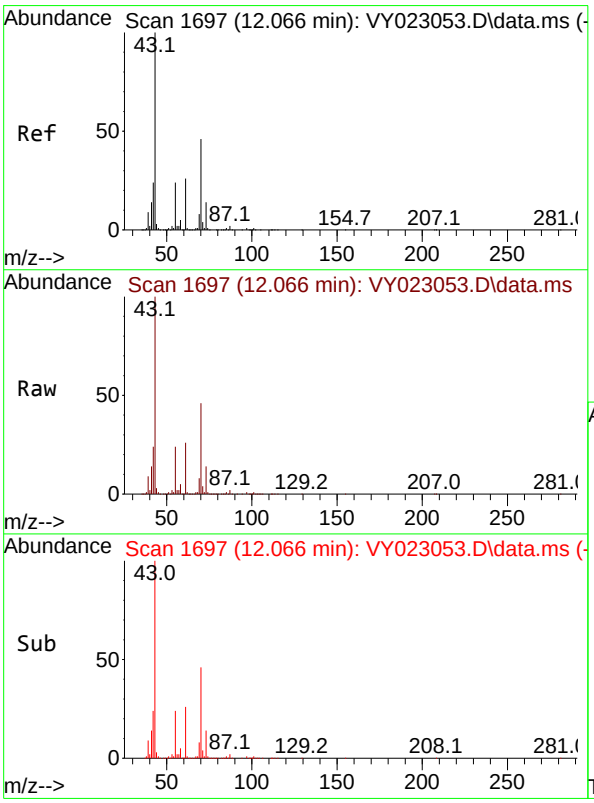
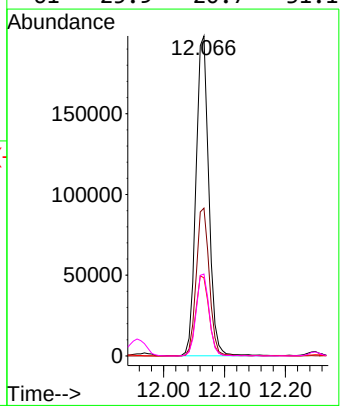
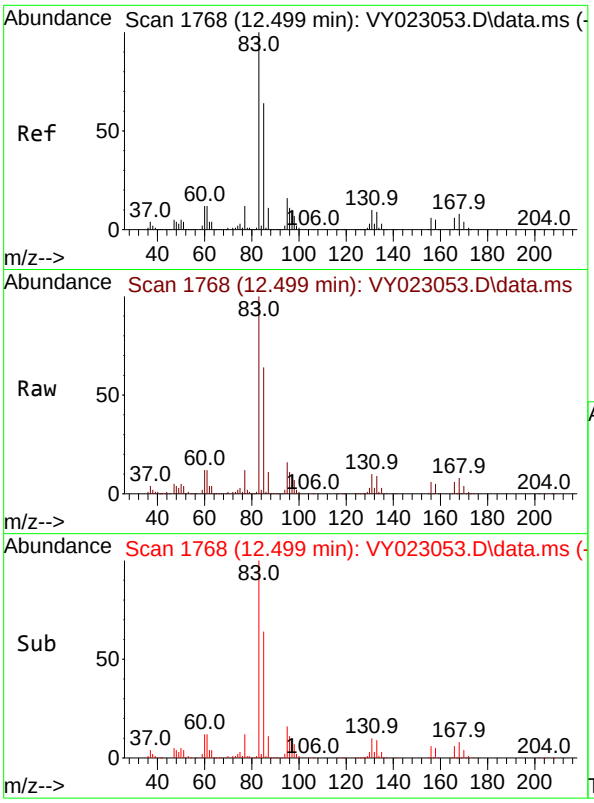


#74
N-amyl acetate
Concen: 51.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 289914

Ion	Ratio	Lower	Upper
43	100		
70	46.9	37.5	56.3
55	25.9	20.7	31.1
61	25.9	20.7	31.1

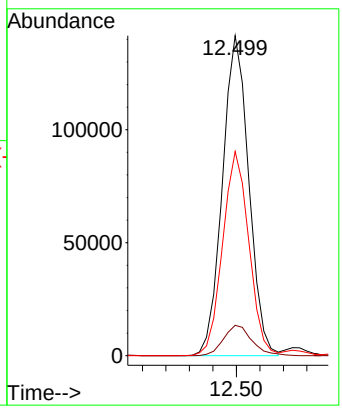




#75
1,1,2,2-Tetrachloroethane
Concen: 48.503 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 22085

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	63.5	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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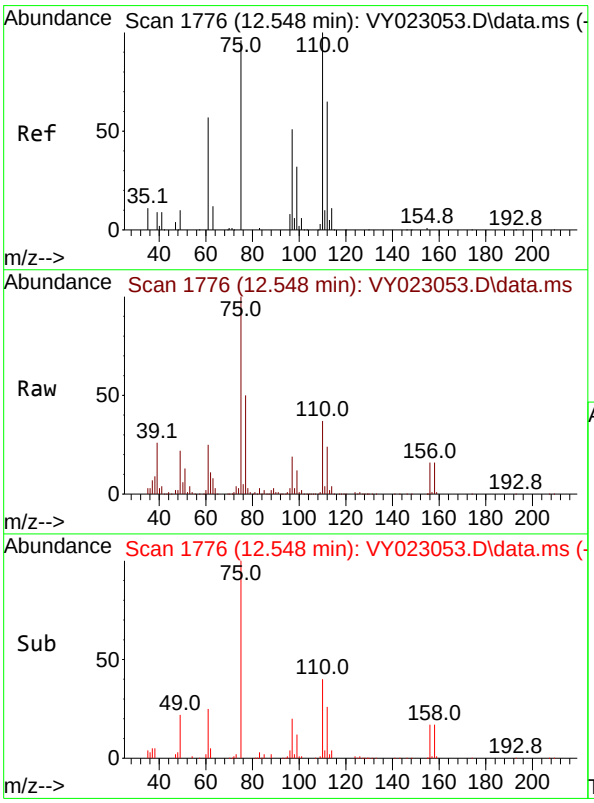
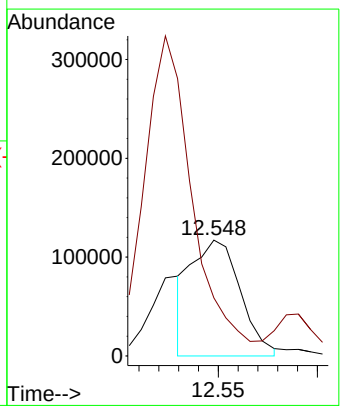
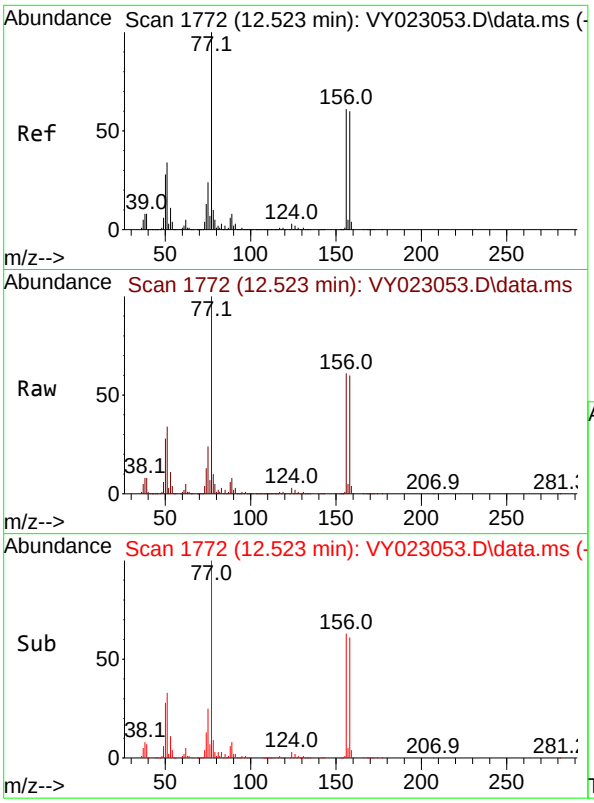


#76
1,2,3-Trichloropropane
Concen: 55.430 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 202260

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

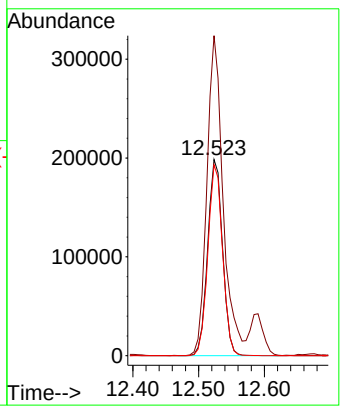




#77
Bromobenzene
Concen: 49.152 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:156 Resp: 31270

Ion	Ratio	Lower	Upper
156	100		
77	176.3	88.1	264.4
158	96.0	48.0	144.0



Instrument :
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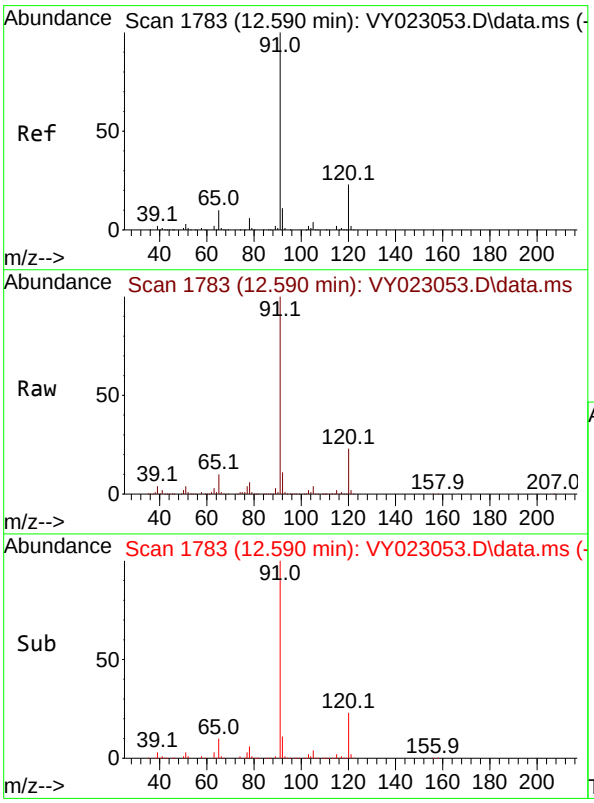
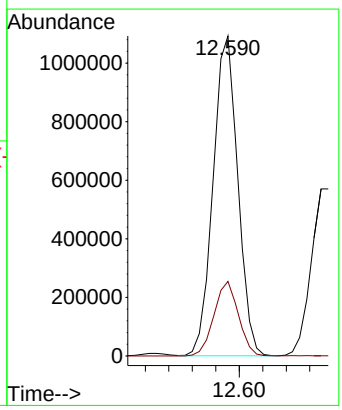
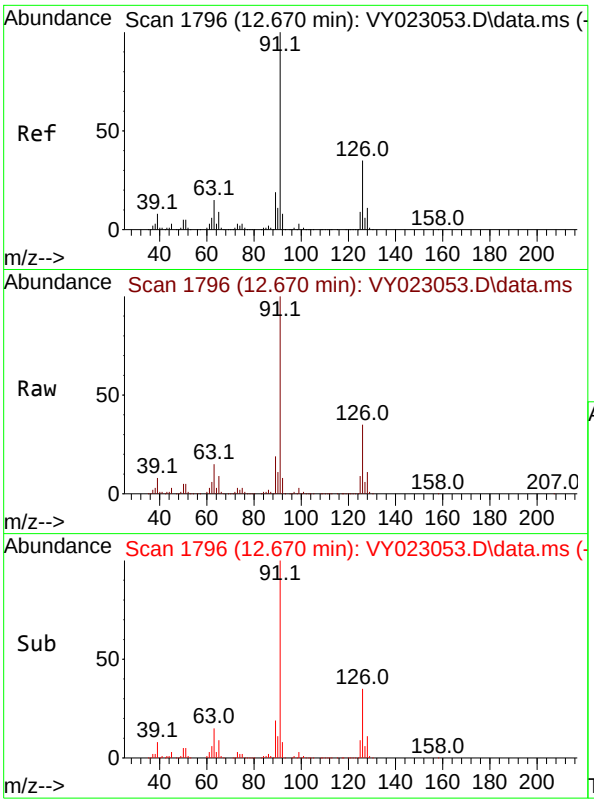


#78
n-propylbenzene
Concen: 50.186 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 1593368

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5





#79
2-Chlorotoluene
Concen: 49.473 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 89996

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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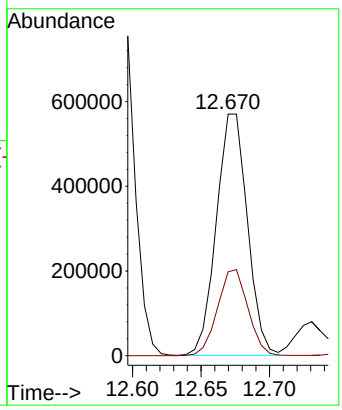
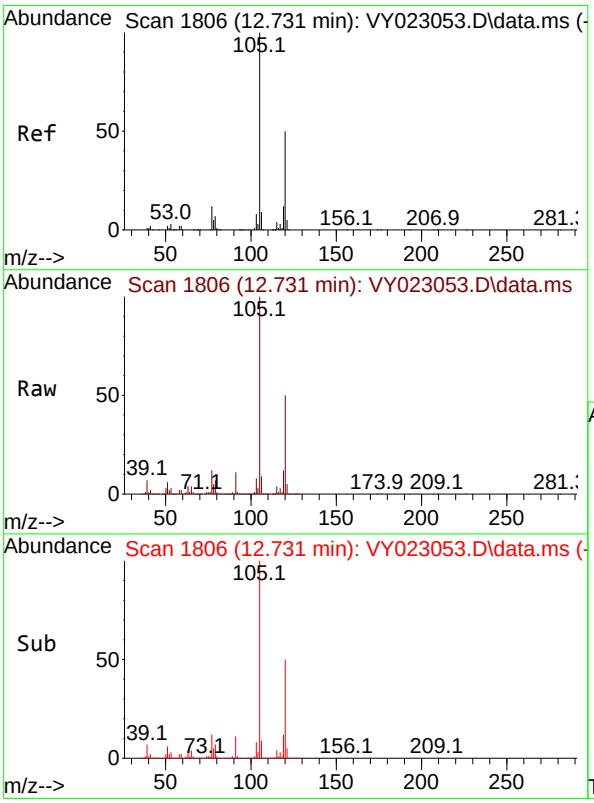
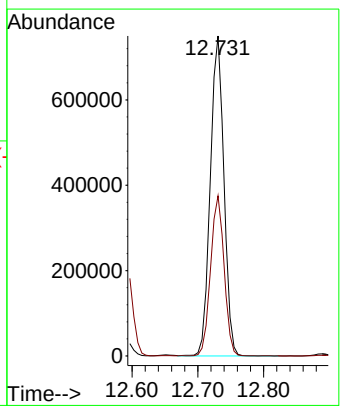


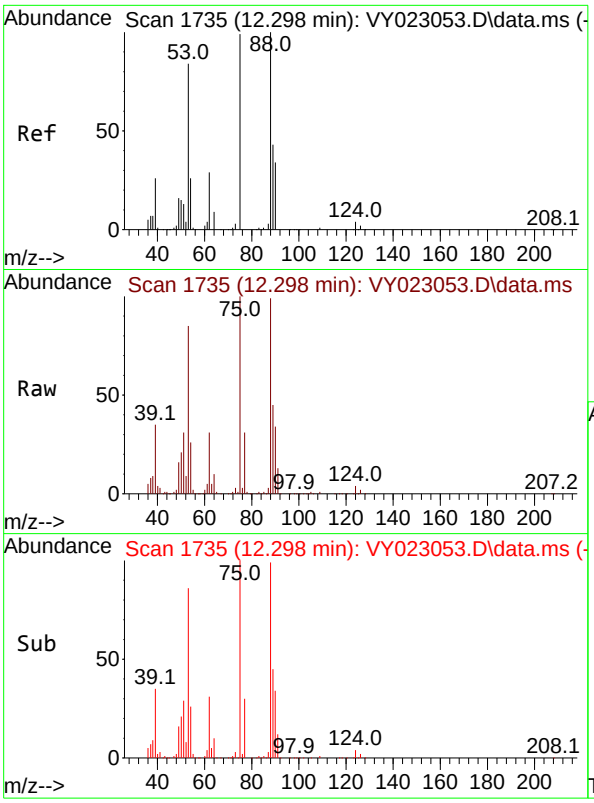


#80
1,3,5-Trimethylbenzene
Concen: 50.126 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1080333

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4

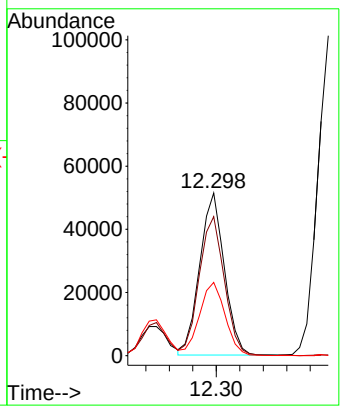




#81
trans-1,4-Dichloro-2-butene
Concen: 49.500 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 7456

Ion	Ratio	Lower	Upper
75	100		
53	88.5	70.8	106.2
89	47.6	38.1	57.1



Instrument :
MSVOA_Y
ClientSampleId :
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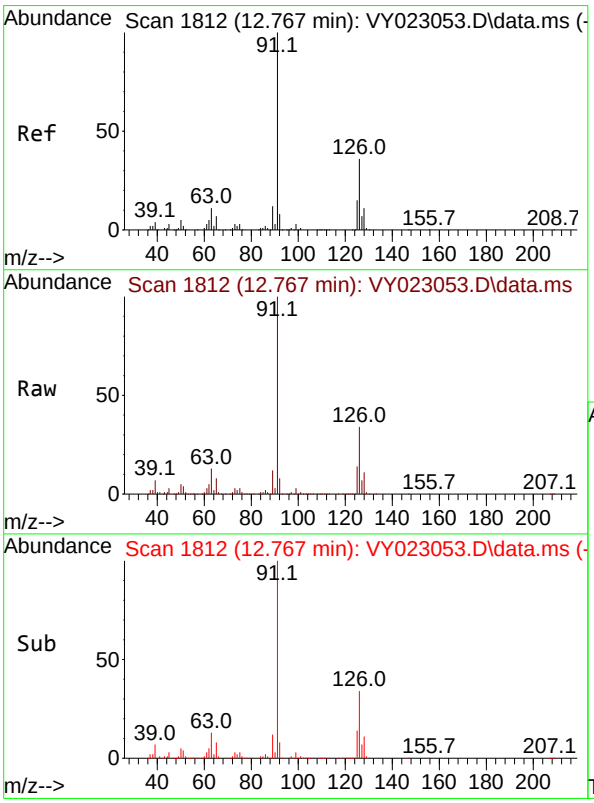
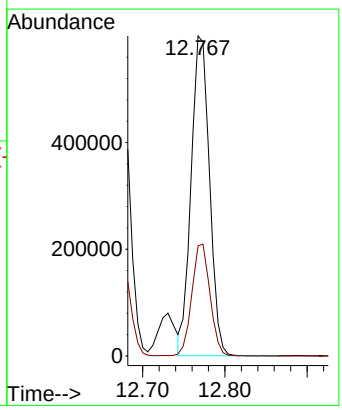
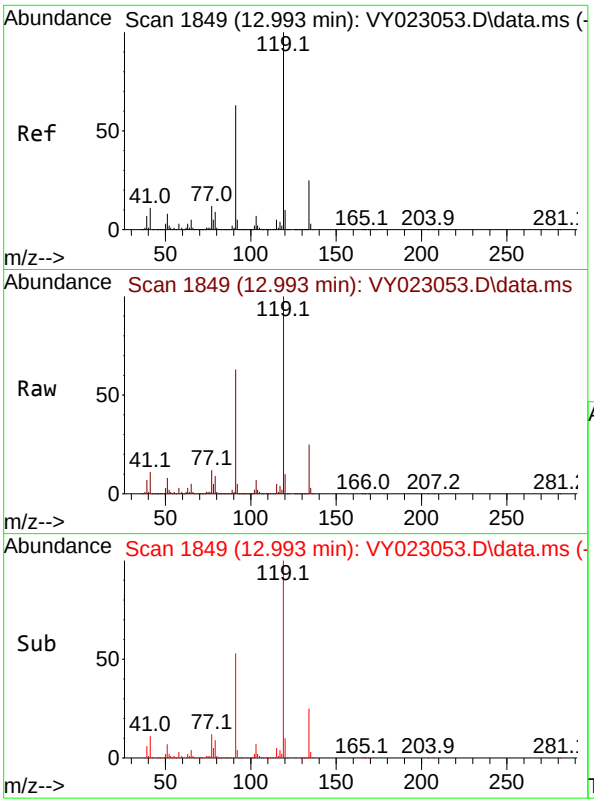


#82
4-Chlorotoluene
Concen: 49.299 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 930329

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0

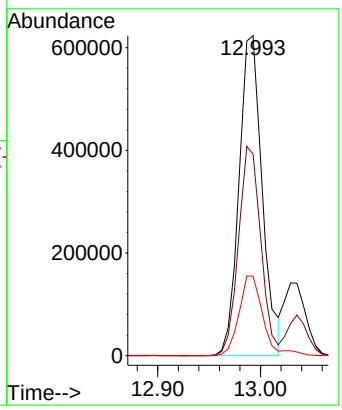




#83
tert-Butylbenzene
Concen: 50.244 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:119 Resp: 97803

Ion	Ratio	Lower	Upper
119	100		
91	63.2	31.6	94.8
134	25.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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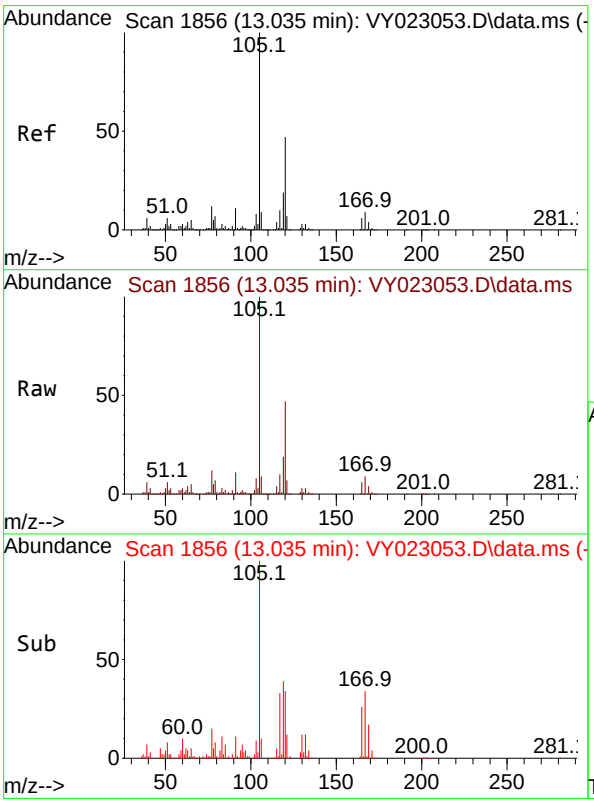
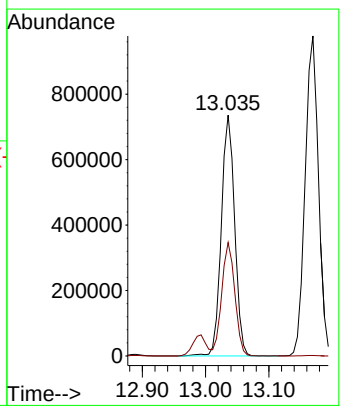
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

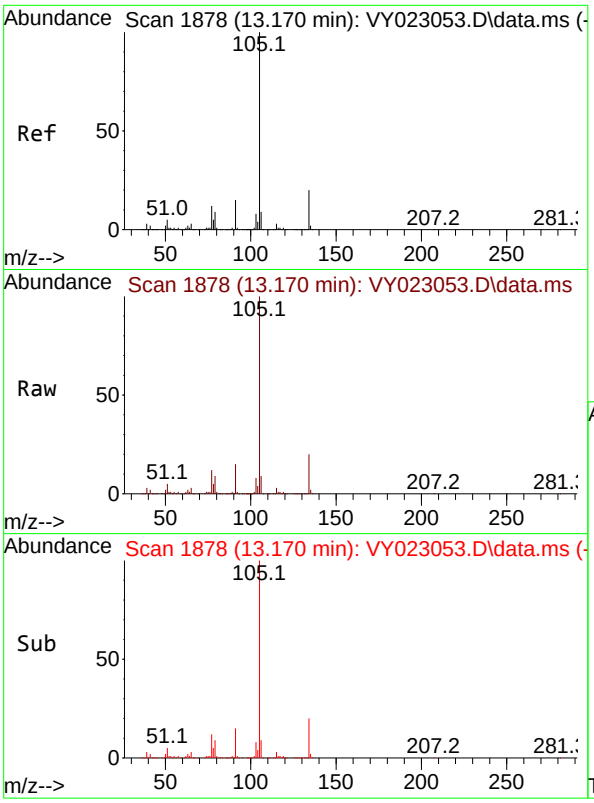


#84
1,2,4-Trimethylbenzene
Concen: 49.963 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1071926

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0

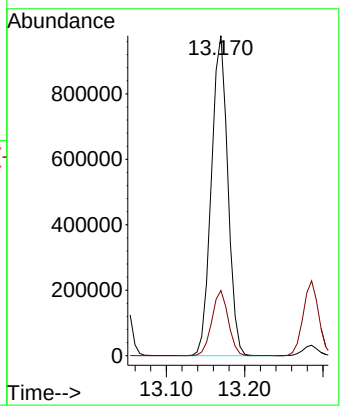




#85
sec-Butylbenzene
Concen: 49.854 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 142555

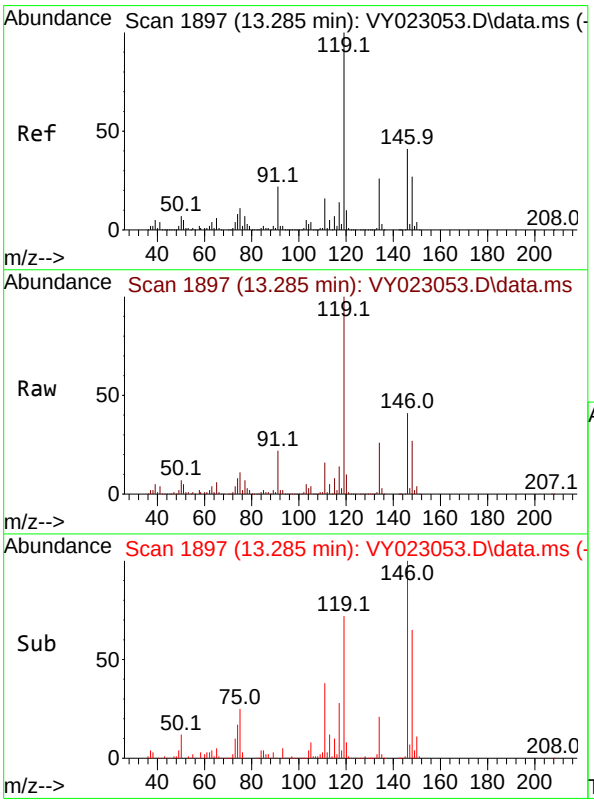
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

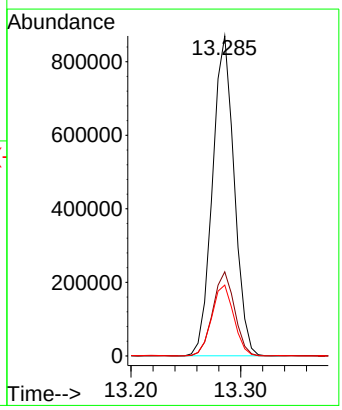
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

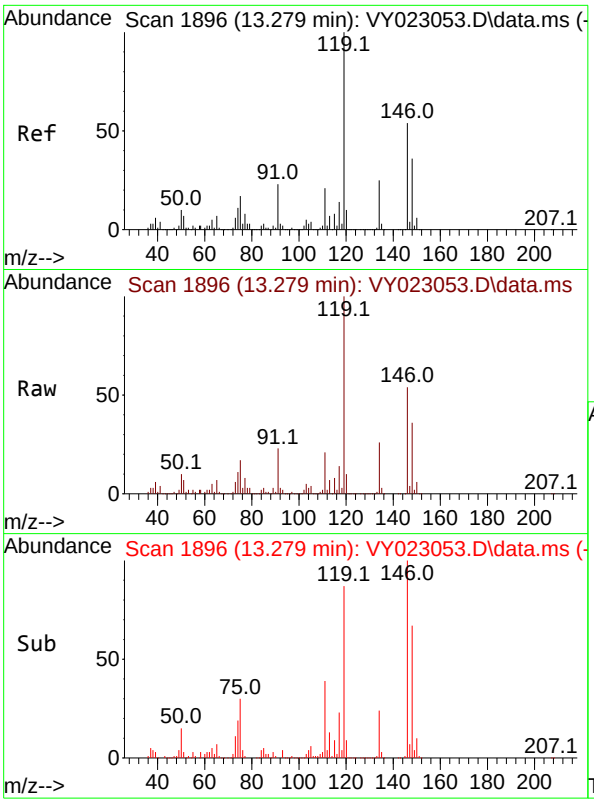


#86
p-Isopropyltoluene
Concen: 50.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:119 Resp: 1196645

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.6
91	22.5	11.3	33.8

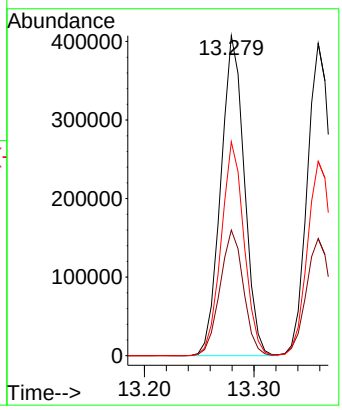




#87
1,3-Dichlorobenzene
Concen: 48.481 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 60824

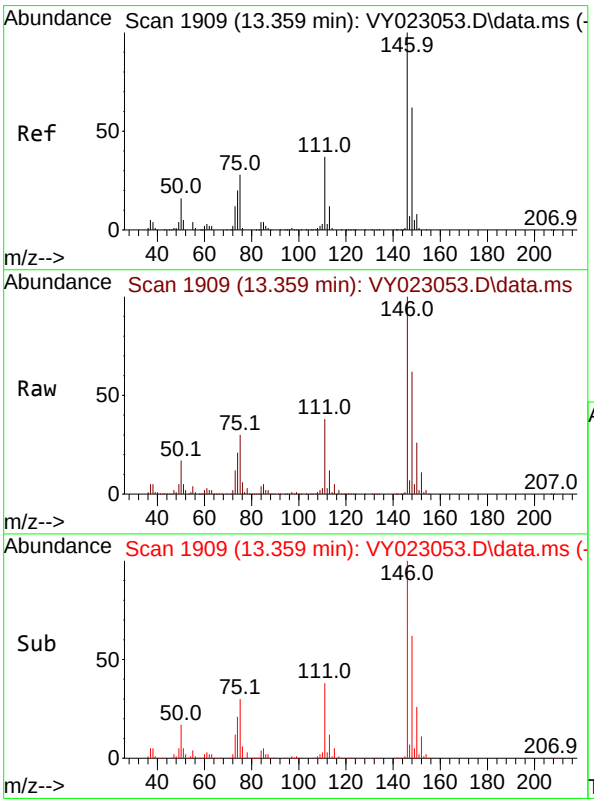
Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	65.0	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

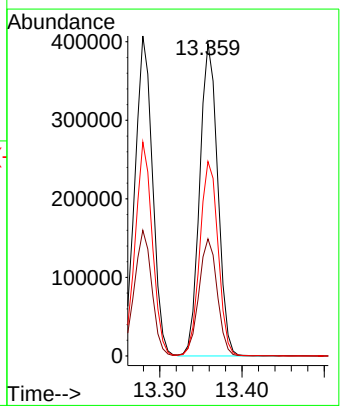
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

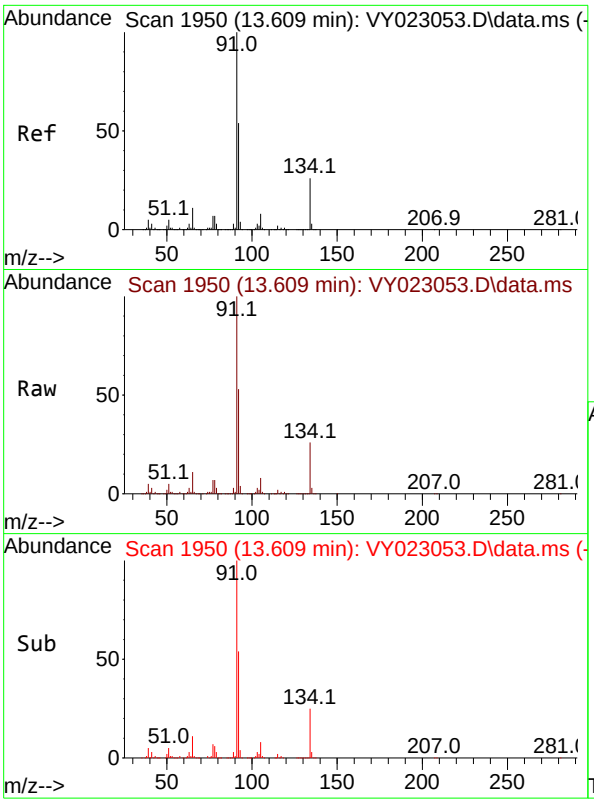


#88
1,4-Dichlorobenzene
Concen: 48.618 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 605079

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.1
148	63.1	31.6	94.7

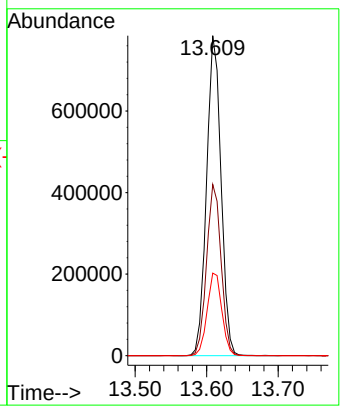




#89
n-Butylbenzene
Concen: 50.454 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 109986

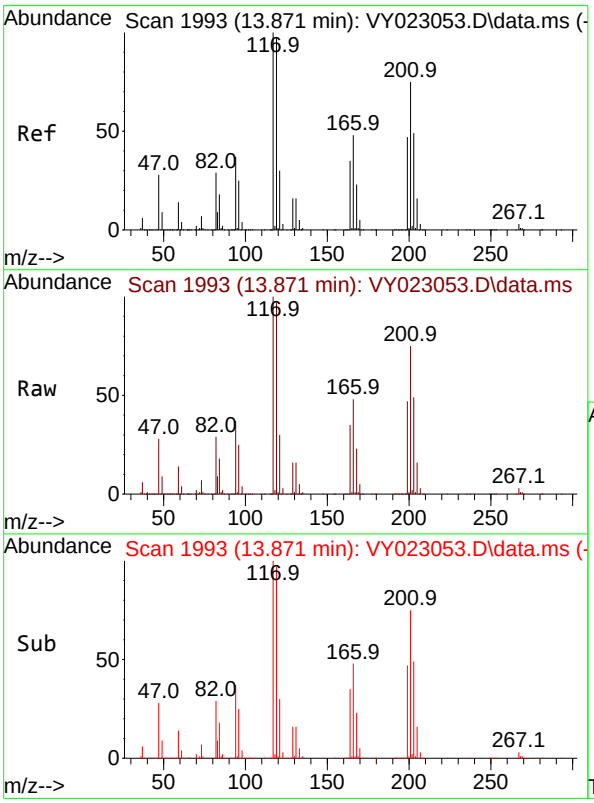
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.9	80.7
134	26.3	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

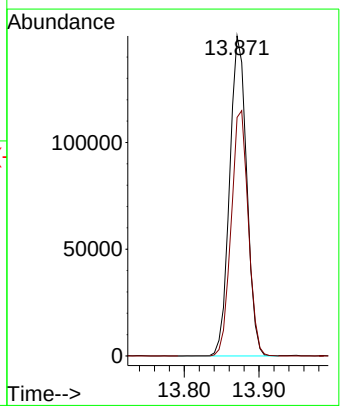
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

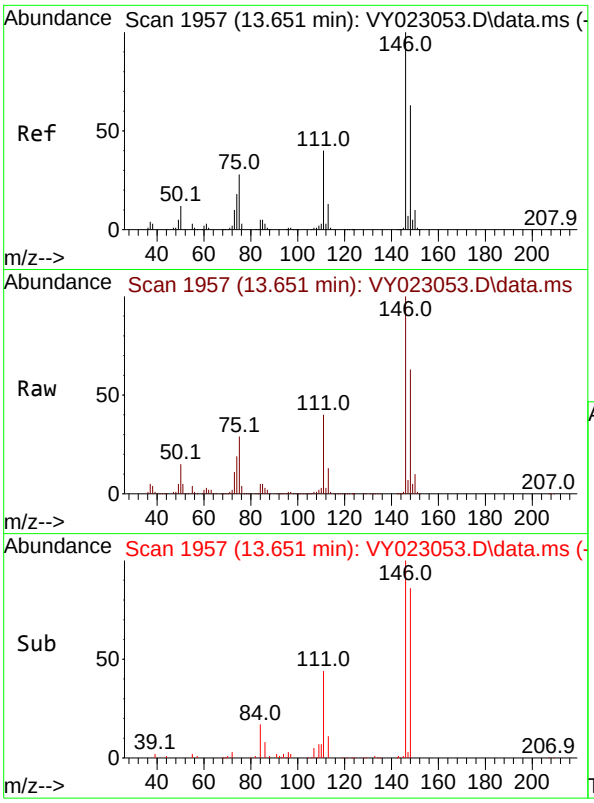


#90
Hexachloroethane
Concen: 48.984 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 238005

Ion	Ratio	Lower	Upper
117	100		
201	76.7	38.4	115.1

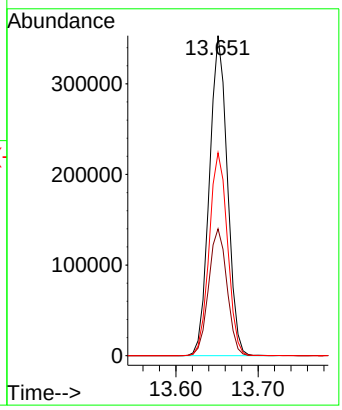




#91
1,2-Dichlorobenzene
Concen: 48.772 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 53663

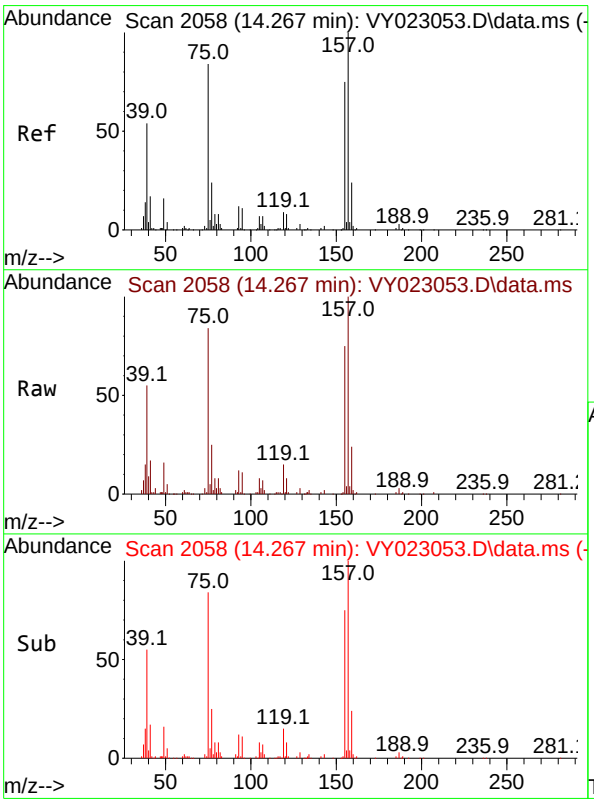
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	64.4	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

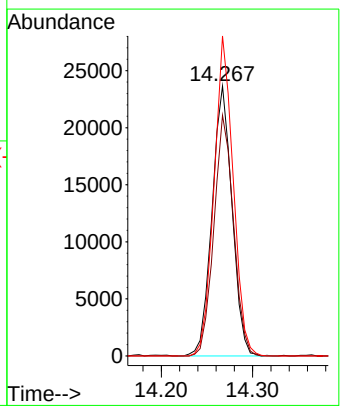
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

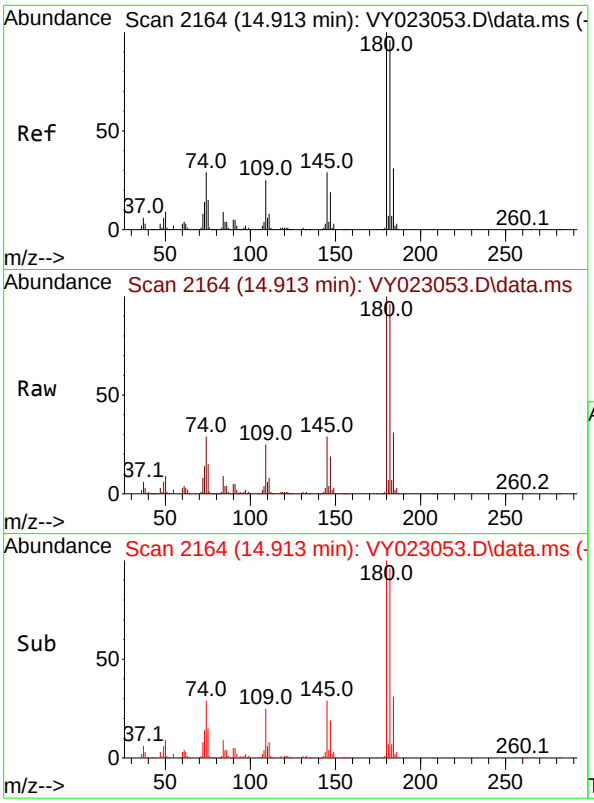


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.592 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 35867

Ion	Ratio	Lower	Upper
75	100		
155	87.7	43.9	131.6
157	114.4	57.2	171.6

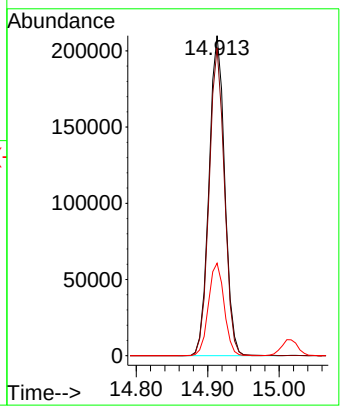




#93
1,2,4-Trichlorobenzene
Concen: 49.192 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 32008

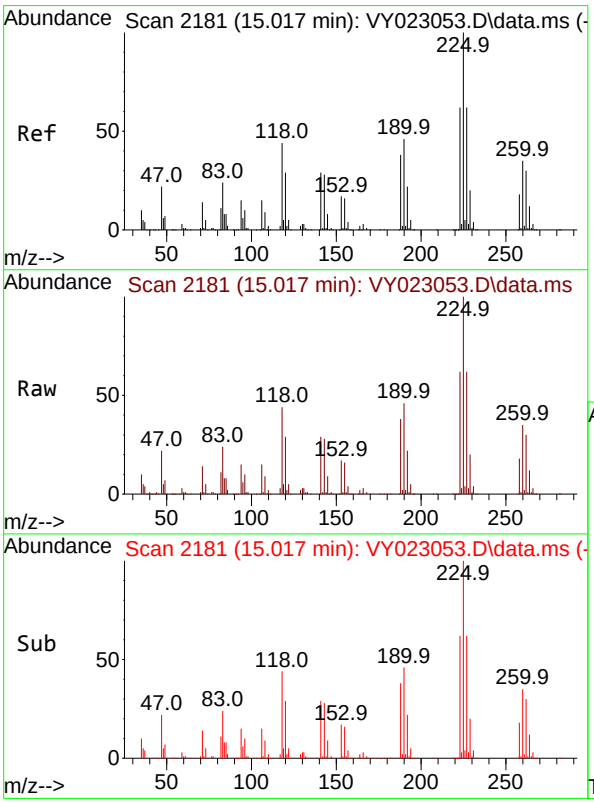
Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.8	140.4
145	28.9	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

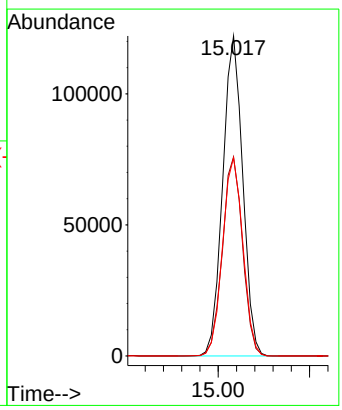
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

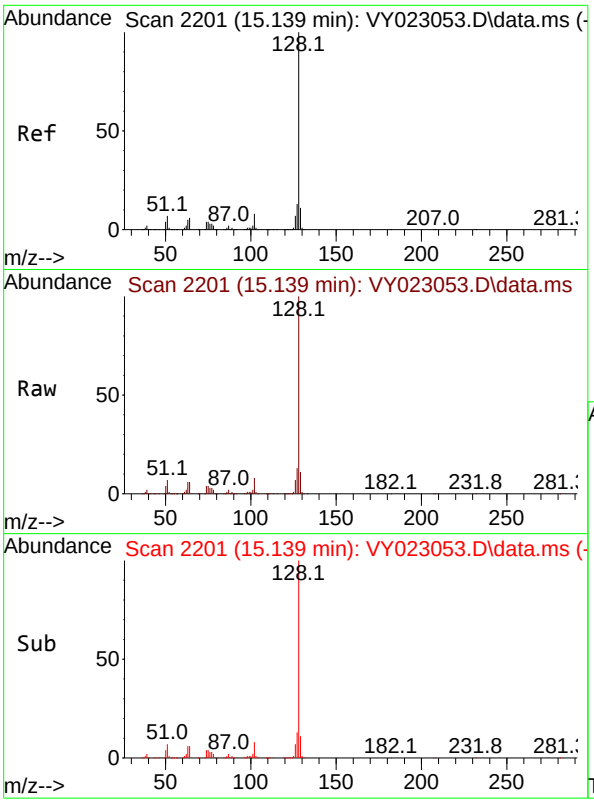


#94
Hexachlorobutadiene
Concen: 48.543 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:225 Resp: 185604

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.3	93.8
227	63.0	31.5	94.5

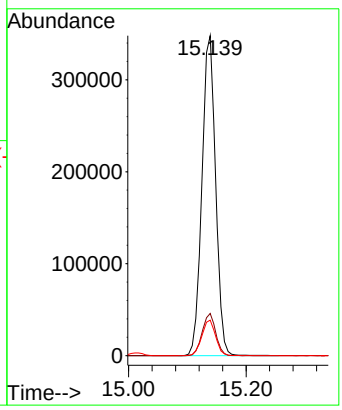




#95
Naphthalene
Concen: 50.685 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:128 Resp: 56236

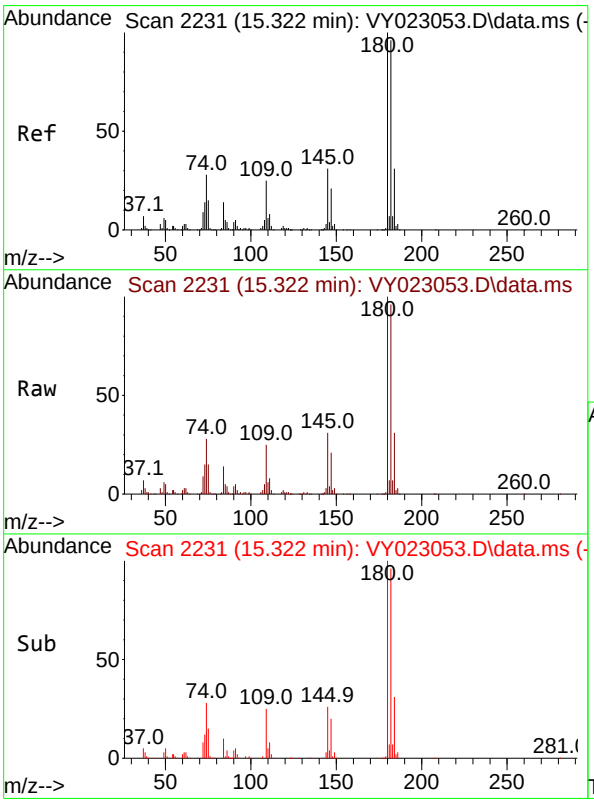
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.2	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

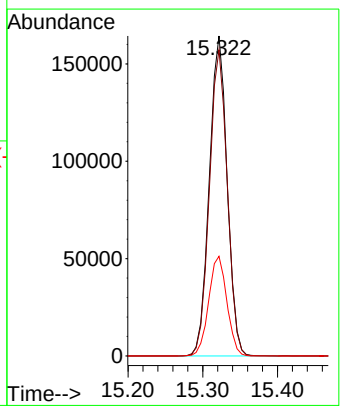
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.540 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 272154

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.7
145	31.8	15.9	47.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	558266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	880463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	784385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	404136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	527356	99.115	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 198.220%#			
35) Dibromofluoromethane	7.628	113	540106	102.518	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 205.040%#			
50) Toluene-d8	10.103	98	2116445	102.832	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 205.660%#			
62) 4-Bromofluorobenzene	12.402	95	702583	106.147	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 212.300%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	376261	82.570	ug/l	98
3) Chloromethane	2.068	50	673475	91.248	ug/l	99
4) Vinyl Chloride	2.202	62	841648	92.250	ug/l	98
5) Bromomethane	2.586	94	643103	94.384	ug/l	100
6) Chloroethane	2.727	64	567515	93.563	ug/l	99
7) Trichlorofluoromethane	3.050	101	1005284	90.617	ug/l	99
8) Diethyl Ether	3.452	74	273400	93.150	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	497408	90.882	ug/l	99
10) Methyl Iodide	4.001	142	629775	106.635	ug/l	99
11) Tert butyl alcohol	4.866	59	162373	445.387	ug/l	99
12) 1,1-Dichloroethene	3.787	96	506919	94.229	ug/l	95
13) Acrolein	3.647	56	240580	450.599	ug/l	100
14) Allyl chloride	4.379	41	759925	96.000	ug/l	99
15) Acrylonitrile	5.049	53	555815	465.802	ug/l	99
16) Acetone	3.867	43	522178	453.007	ug/l	97
17) Carbon Disulfide	4.098	76	1622451	92.494	ug/l	100
18) Methyl Acetate	4.379	43	312127	90.993	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1342237	96.284	ug/l	100
20) Methylene Chloride	4.610	84	570465	97.847	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	580972	96.098	ug/l	99
22) Diisopropyl ether	6.019	45	1686285	98.033	ug/l	99
23) Vinyl Acetate	5.958	43	4632278	487.023	ug/l	100
24) 1,1-Dichloroethane	5.909	63	1012815	96.306	ug/l	100
25) 2-Butanone	6.890	43	722555	460.899	ug/l	97
26) 2,2-Dichloropropane	6.878	77	866598	95.497	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	681242	97.472	ug/l	100
28) Bromochloromethane	7.244	49	409677	98.188	ug/l	100
29) Tetrahydrofuran	7.256	42	451254	464.370	ug/l	100
30) Chloroform	7.415	83	1045381	96.383	ug/l	96
31) Cyclohexane	7.695	56	884707	89.271	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	929858	96.620	ug/l	99
36) 1,1-Dichloropropene	7.829	75	755114	96.443	ug/l	99
37) Ethyl Acetate	6.982	43	313447	95.302	ug/l	99
38) Carbon Tetrachloride	7.811	117	819941	96.419	ug/l	98
39) Methylcyclohexane	9.103	83	1011944	98.146	ug/l	99
40) Benzene	8.073	78	2348617	97.324	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	180468	94.973	ug/l		98
42) 1,2-Dichloroethane	8.152	62	597215	95.155	ug/l		100
43) Isopropyl Acetate	8.195	43	636710	95.780	ug/l		99
44) Trichloroethene	8.860	130	602322	96.584	ug/l		97
45) 1,2-Dichloropropane	9.140	63	543589	97.899	ug/l		99
46) Dibromomethane	9.225	93	309302	97.052	ug/l		99
47) Bromodichloromethane	9.420	83	802532	97.864	ug/l		98
48) Methyl methacrylate	9.219	41	319906	100.567	ug/l		99
49) 1,4-Dioxane	9.225	88	71300	1908.039	ug/l		94
51) 4-Methyl-2-Pentanone	9.994	43	1669668	486.924	ug/l		100
52) Toluene	10.164	92	1537088	100.288	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	754278	101.574	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	880571	100.281	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	415556	97.446	ug/l		99
56) Ethyl methacrylate	10.432	69	569556	104.375	ug/l		100
57) 1,3-Dichloropropane	10.713	76	696130	96.253	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	1389847	539.957	ug/l		99
59) 2-Hexanone	10.756	43	1151000	492.950	ug/l		100
60) Dibromochloromethane	10.902	129	557205	99.024	ug/l		99
61) 1,2-Dibromoethane	11.012	107	391650	97.713	ug/l		98
64) Tetrachloroethene	10.640	164	615871	87.931	ug/l		98
65) Chlorobenzene	11.438	112	1658154	98.004	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	573131	99.810	ug/l		99
67) Ethyl Benzene	11.512	91	2914020	100.082	ug/l		98
68) m/p-Xylenes	11.621	106	2312597	203.363	ug/l		98
69) o-Xylene	11.950	106	1100998	103.373	ug/l		99
70) Styrene	11.963	104	1845480	105.953	ug/l		99
71) Bromoform	12.127	173	334886	99.786	ug/l	#	99
73) Isopropylbenzene	12.249	105	2839999	99.567	ug/l		99
74) N-amyl acetate	12.066	43	610668	100.955	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	469810	96.464	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	330554m	84.695	ug/l		
77) Bromobenzene	12.524	156	671329	98.655	ug/l		98
78) n-propylbenzene	12.591	91	3360679	98.963	ug/l		99
79) 2-Chlorotoluene	12.670	91	1931460	99.268	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	2321527	100.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	153260	95.118	ug/l		100
82) 4-Chlorotoluene	12.767	91	1988544	98.519	ug/l		100
83) tert-Butylbenzene	12.993	119	2125785	102.102	ug/l		98
84) 1,2,4-Trimethylbenzene	13.036	105	2339432	101.946	ug/l		100
85) sec-Butylbenzene	13.170	105	3056373	99.932	ug/l		100
86) p-Isopropyltoluene	13.286	119	2610936	102.846	ug/l		100
87) 1,3-Dichlorobenzene	13.280	146	1338547	99.748	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	1290840	96.970	ug/l		99
89) n-Butylbenzene	13.609	91	2370706	101.675	ug/l		100
90) Hexachloroethane	13.871	117	510900	98.308	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	1162152	98.749	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	69736	91.965	ug/l		97
93) 1,2,4-Trichlorobenzene	14.913	180	692201	99.460	ug/l		98
94) Hexachlorobutadiene	15.017	225	387707	94.803	ug/l		99
95) Naphthalene	15.133	128	1212227	102.147	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	587990	98.046	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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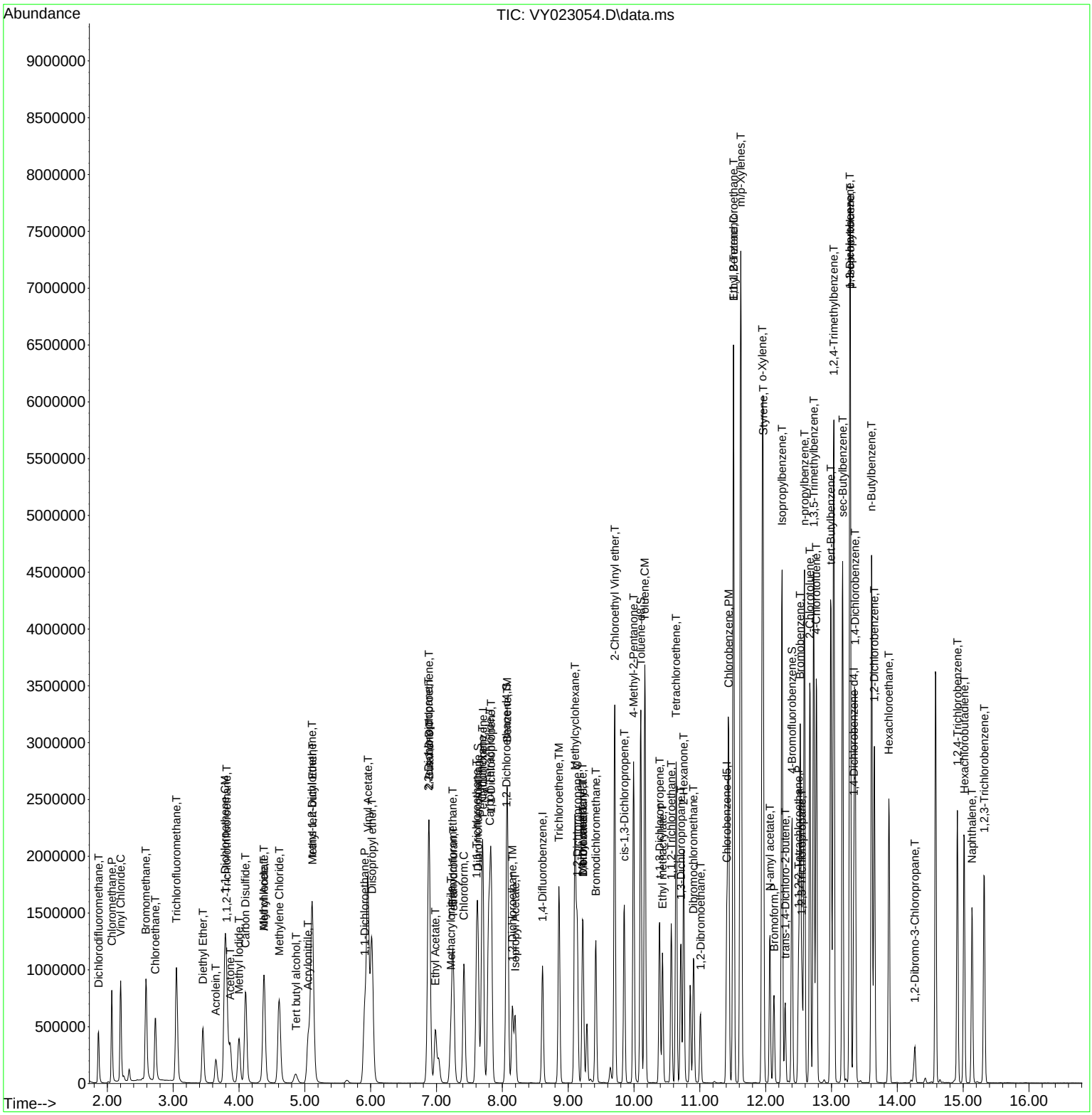
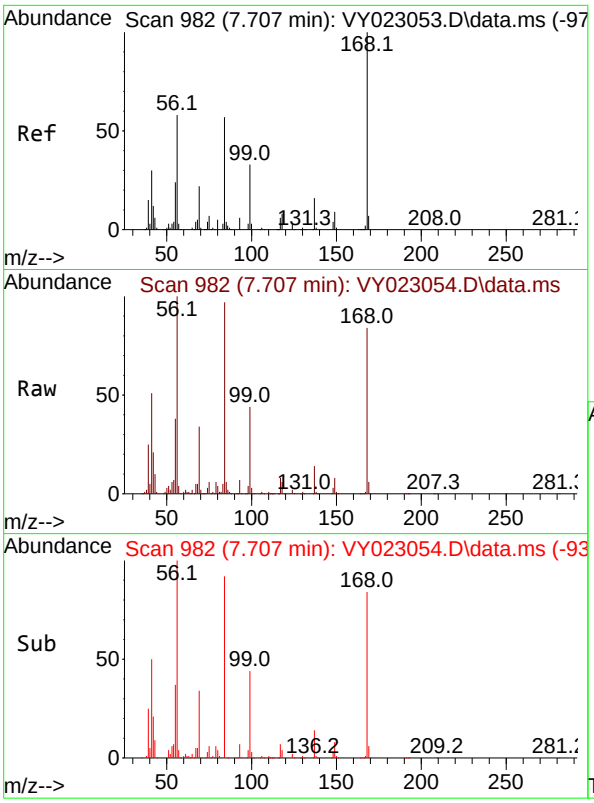
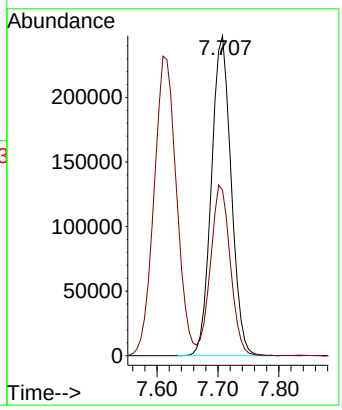




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:168 Resp: 55826

Ion	Ratio	Lower	Upper
168	100		
99	51.7	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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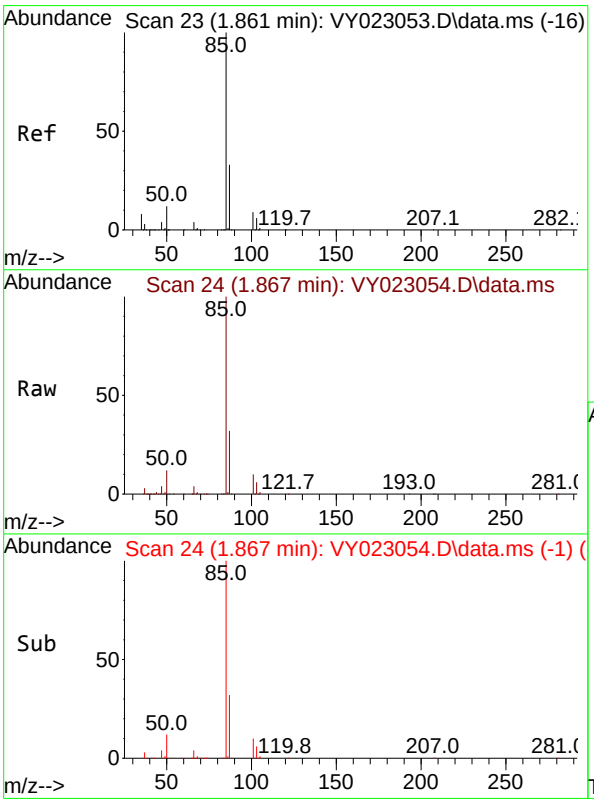
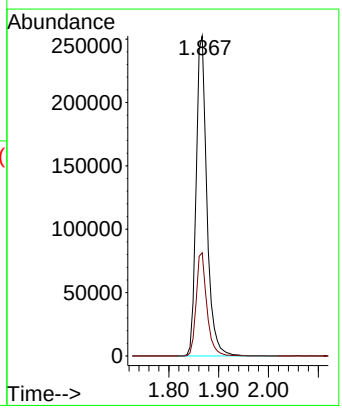
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

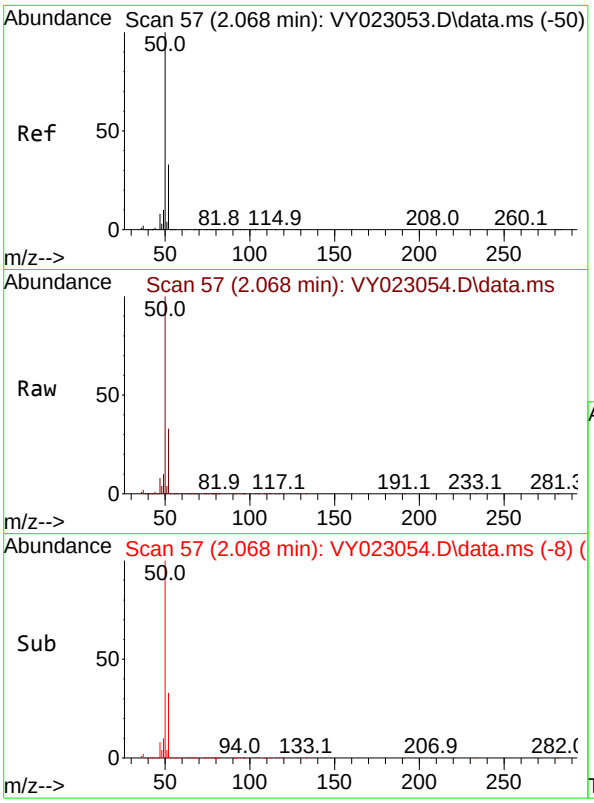


#2
Dichlorodifluoromethane
Concen: 82.570 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 85 Resp: 376261

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

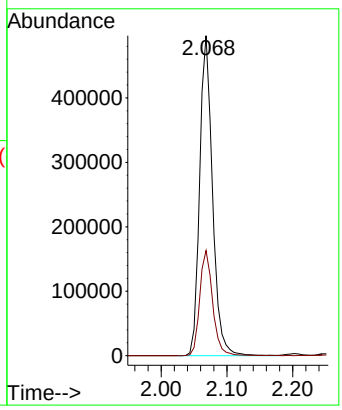




#3
Chloromethane
Concen: 91.248 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 50 Resp: 67347

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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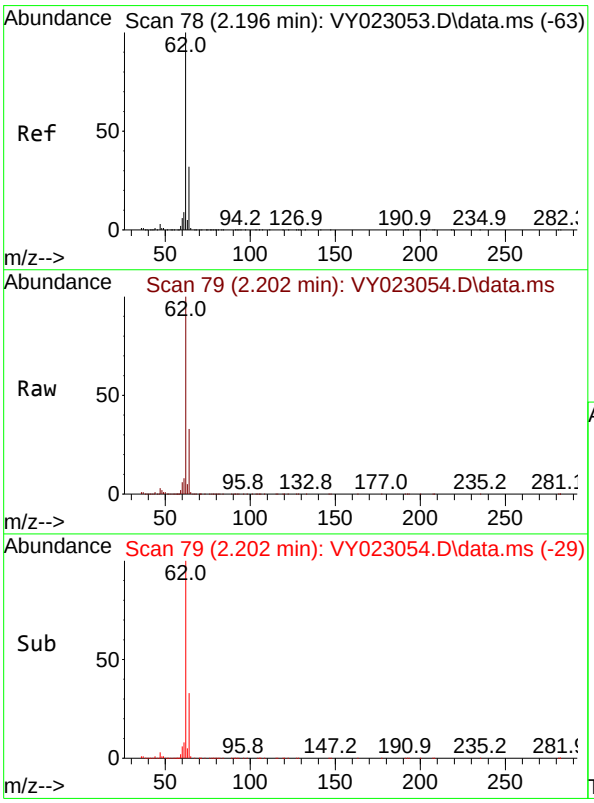
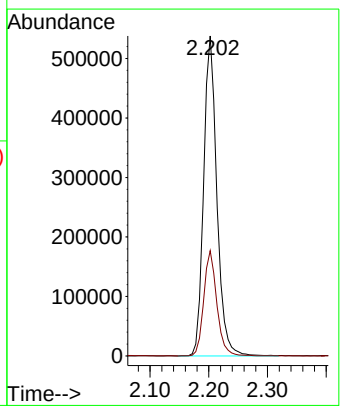
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

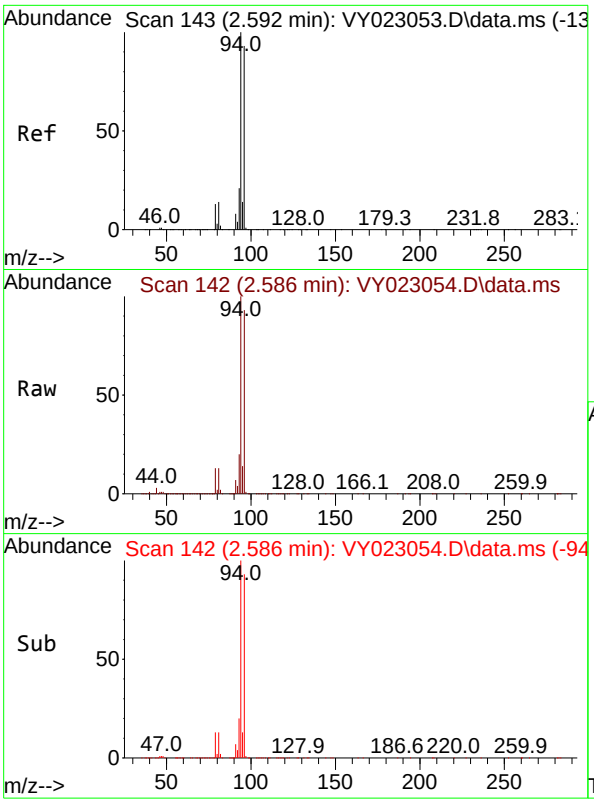


#4
Vinyl Chloride
Concen: 92.250 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 841648

Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.4	38.0





#5
Bromomethane
Concen: 94.384 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 94 Resp: 64310

Ion	Ratio	Lower	Upper
94	100		
96	92.9	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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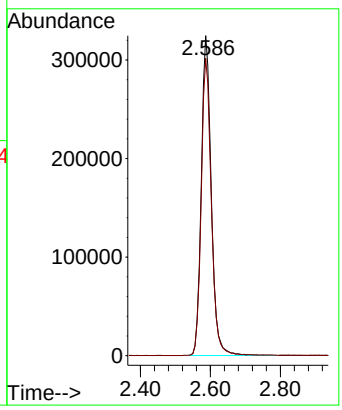
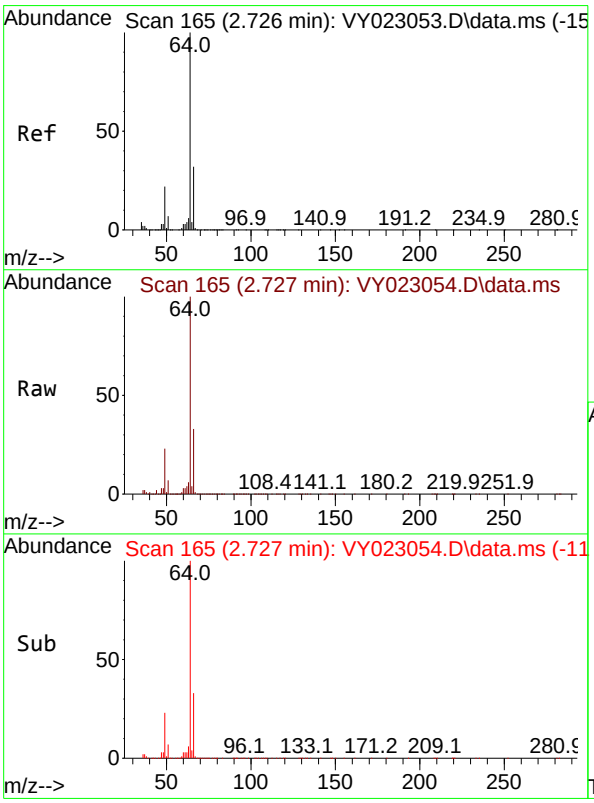
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

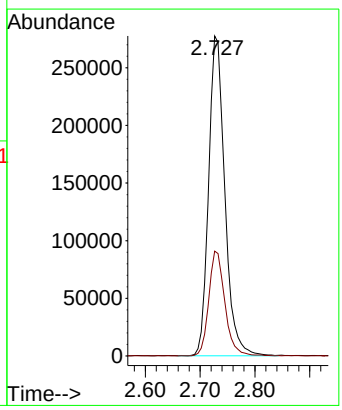


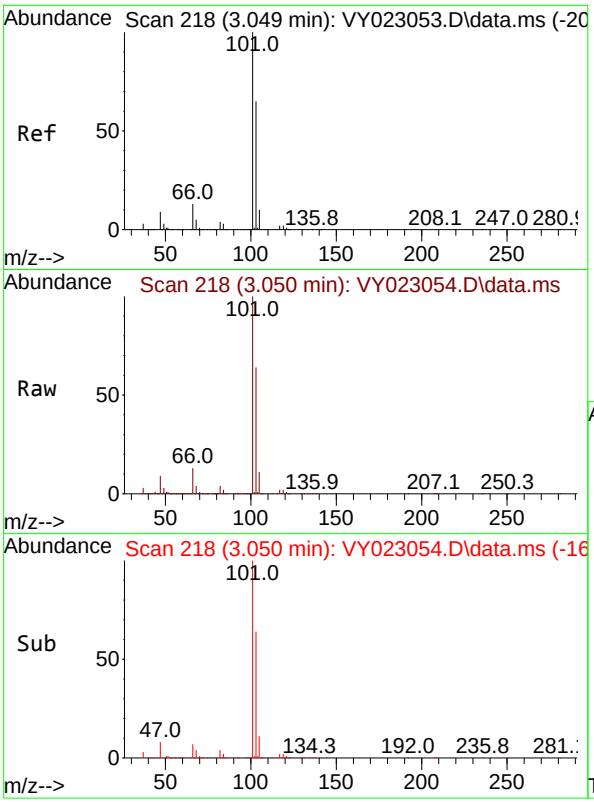


#6
Chloroethane
Concen: 93.563 ug/l
RT: 2.727 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 64 Resp: 567515

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.8	38.6





#7
Trichlorofluoromethane
Concen: 90.617 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:101 Resp: 100528

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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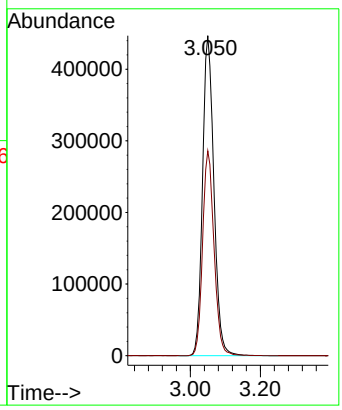
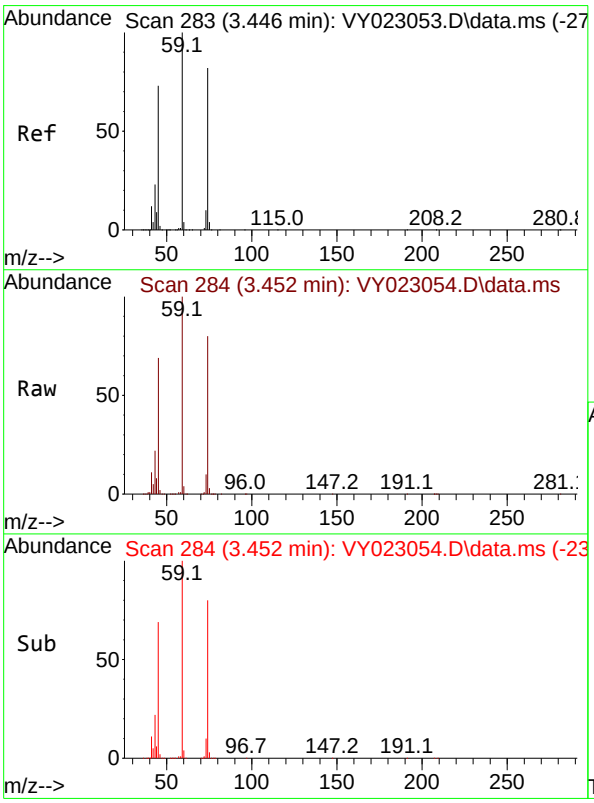
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

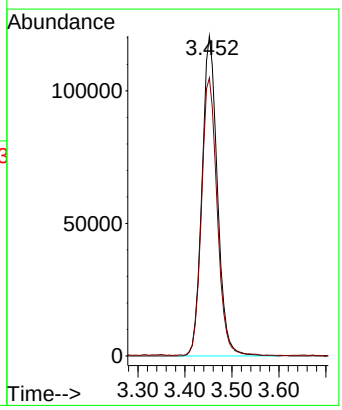


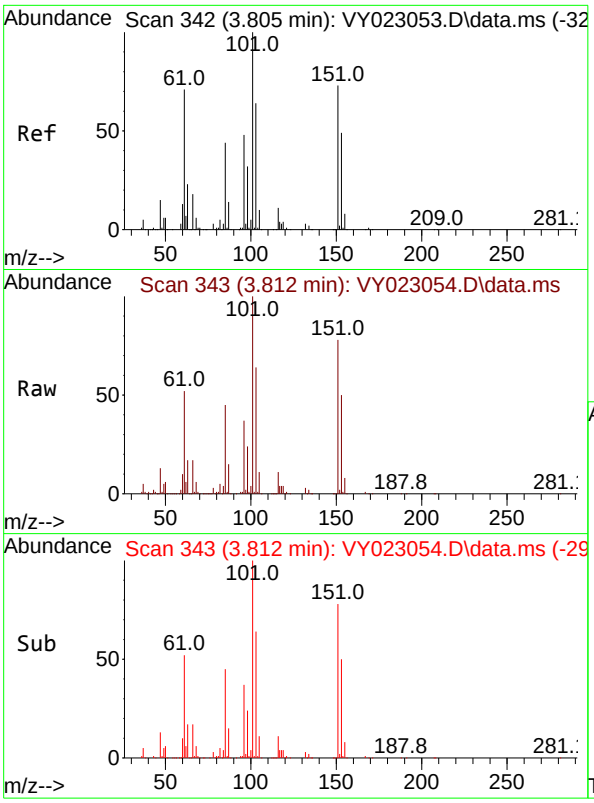


#8
Diethyl Ether
Concen: 93.150 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 74 Resp: 273400

Ion	Ratio	Lower	Upper
74	100		
45	88.2	44.4	133.2

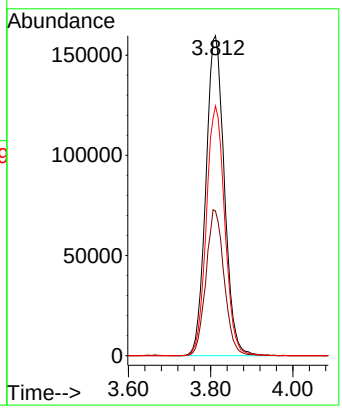




#9
1,1,2-Trichlorotrifluoroethane
Concen: 90.882 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:101 Resp: 49740

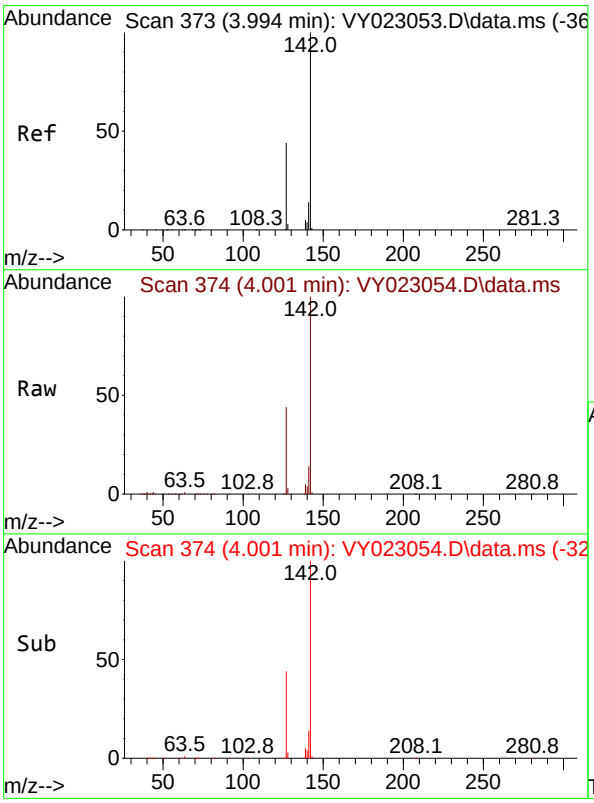
Ion	Ratio	Lower	Upper
101	100		
85	45.0	36.3	54.5
151	77.9	61.5	92.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

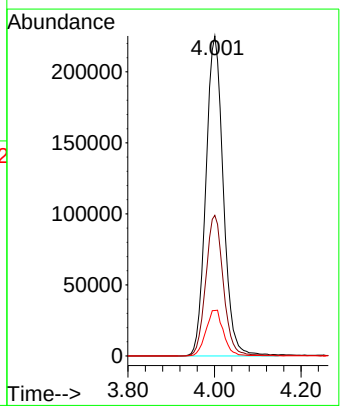
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

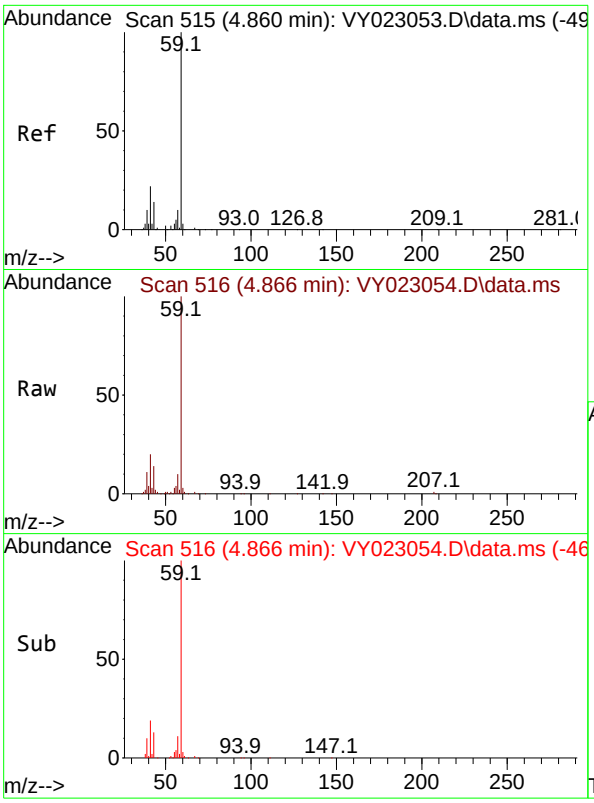


#10
Methyl Iodide
Concen: 106.635 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:142 Resp: 629775

Ion	Ratio	Lower	Upper
142	100		
127	44.2	34.9	52.3
141	14.4	11.3	16.9

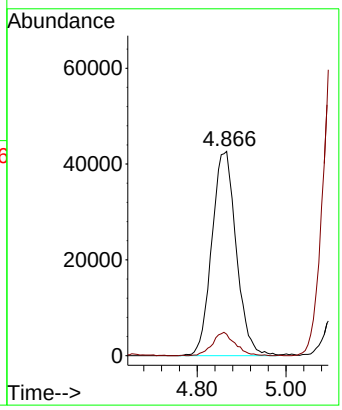




#11
Tert butyl alcohol
Concen: 445.387 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 59 Resp: 16237

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
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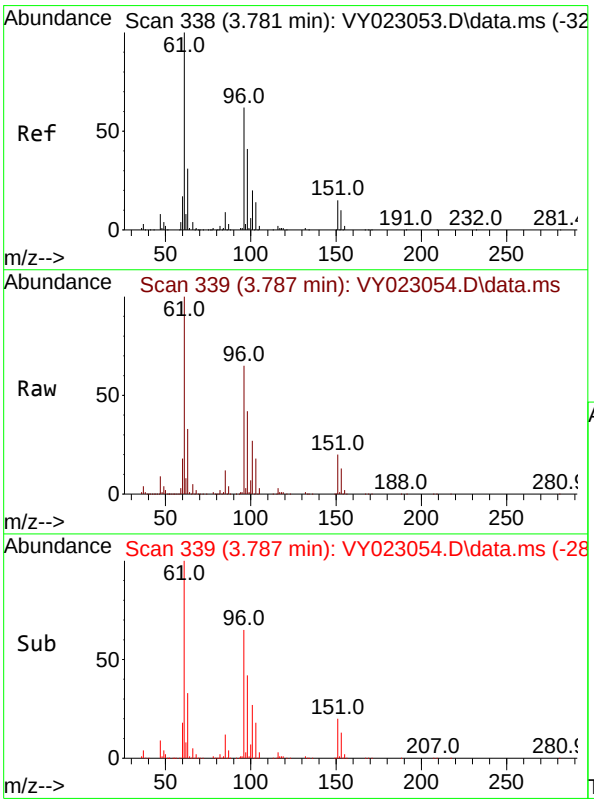
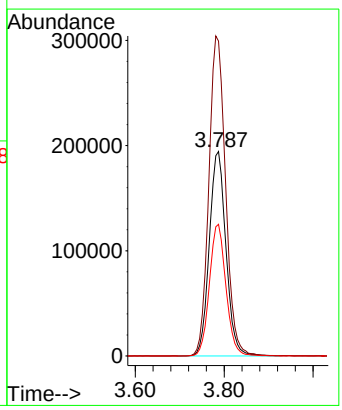
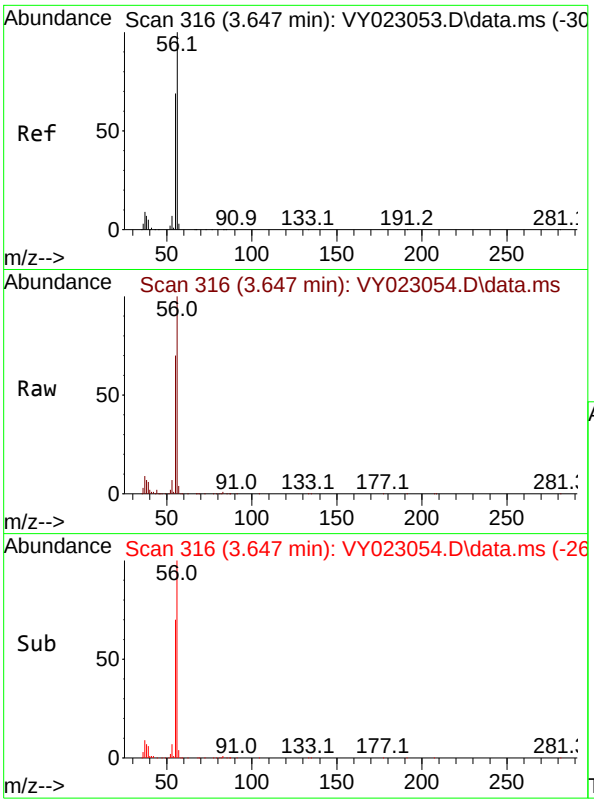


#12
1,1-Dichloroethene
Concen: 94.229 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 506919

Ion	Ratio	Lower	Upper
96	100		
61	154.0	129.4	194.2
98	64.4	52.8	79.2

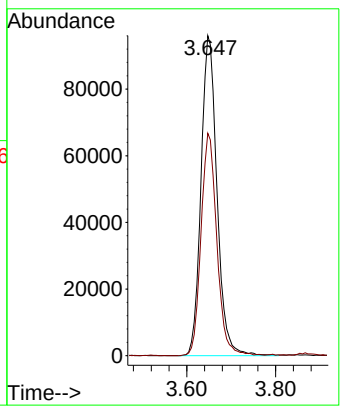




#13
Acrolein
Concen: 450.599 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 56 Resp: 24058

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/14/2025
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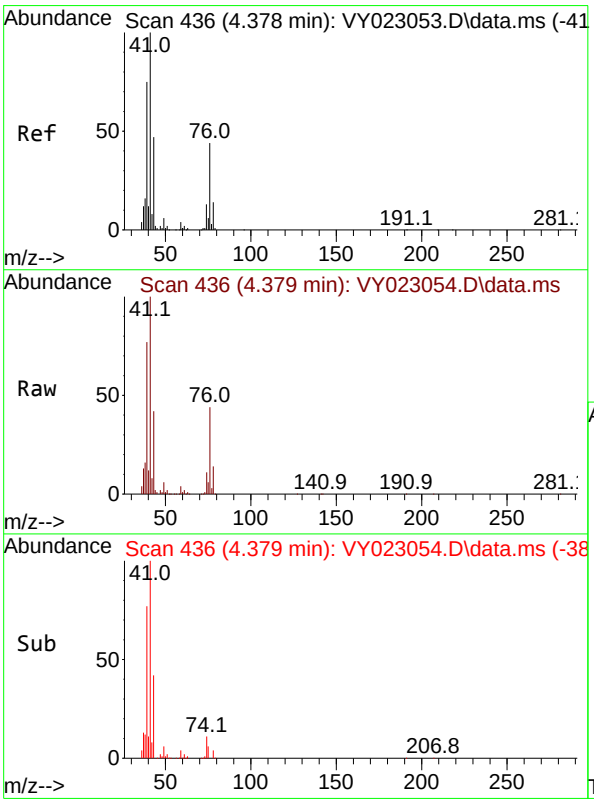
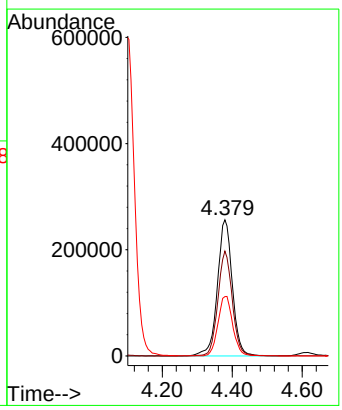
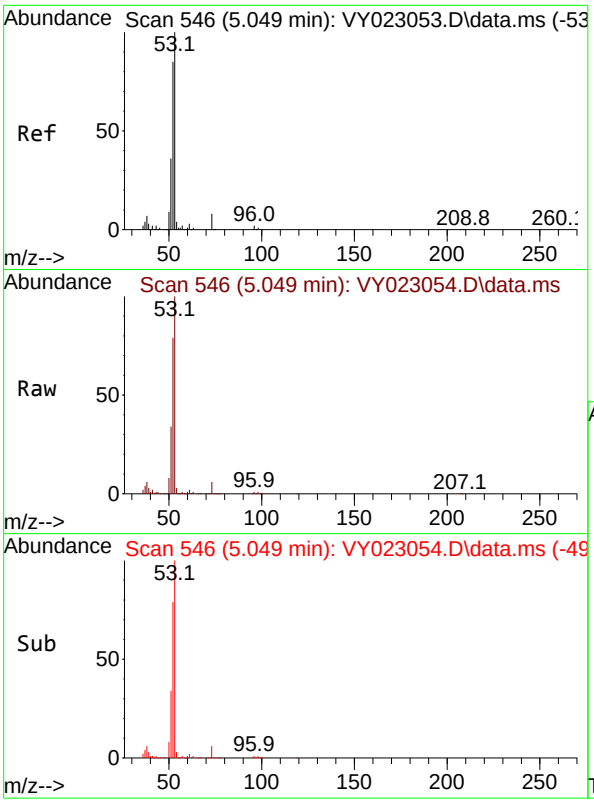


#14
Allyl chloride
Concen: 96.000 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 759925

Ion	Ratio	Lower	Upper
41	100		
39	74.3	59.8	89.6
76	43.0	33.7	50.5

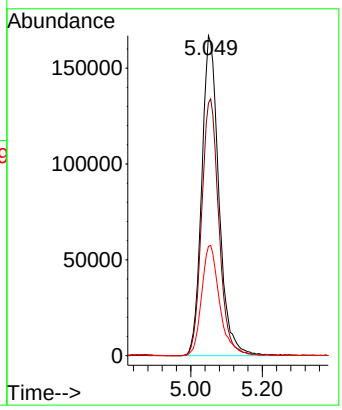




#15
Acrylonitrile
Concen: 465.802 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 53 Resp: 55581

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.3	97.9
51	36.3	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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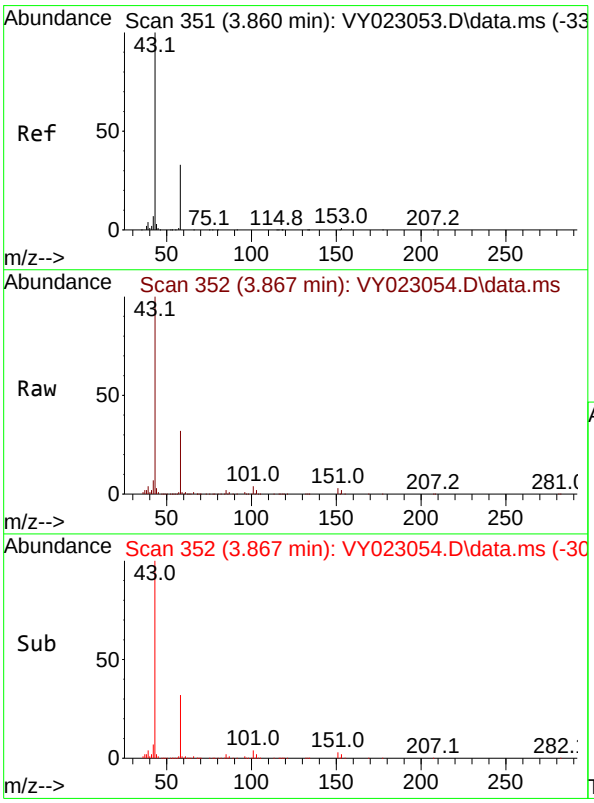
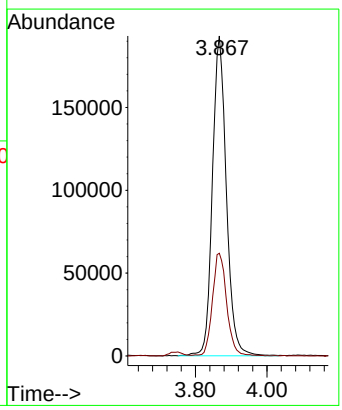
Supervised By :Semsettin Yesilyurt 08/14/2025

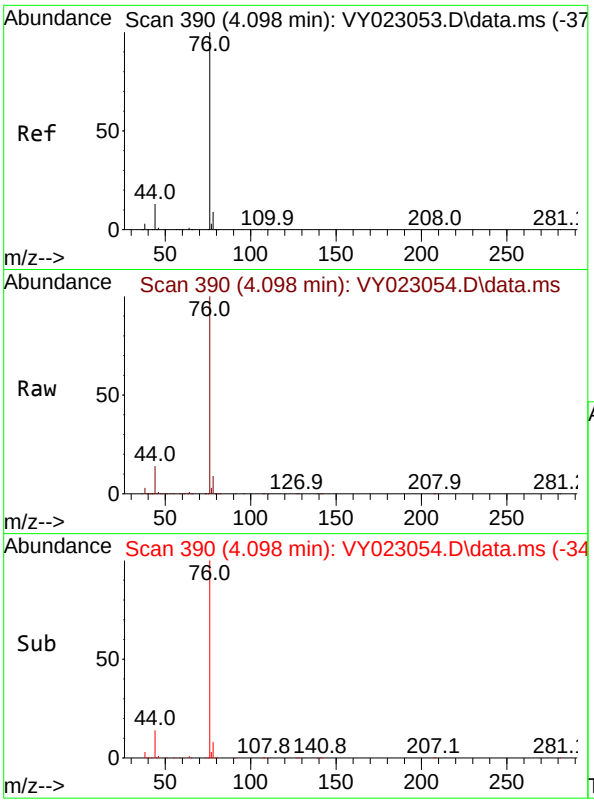


#16
Acetone
Concen: 453.007 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 522178

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7





#17
Carbon Disulfide
Concen: 92.494 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 76 Resp: 162245

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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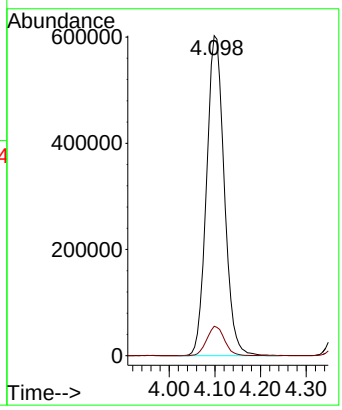
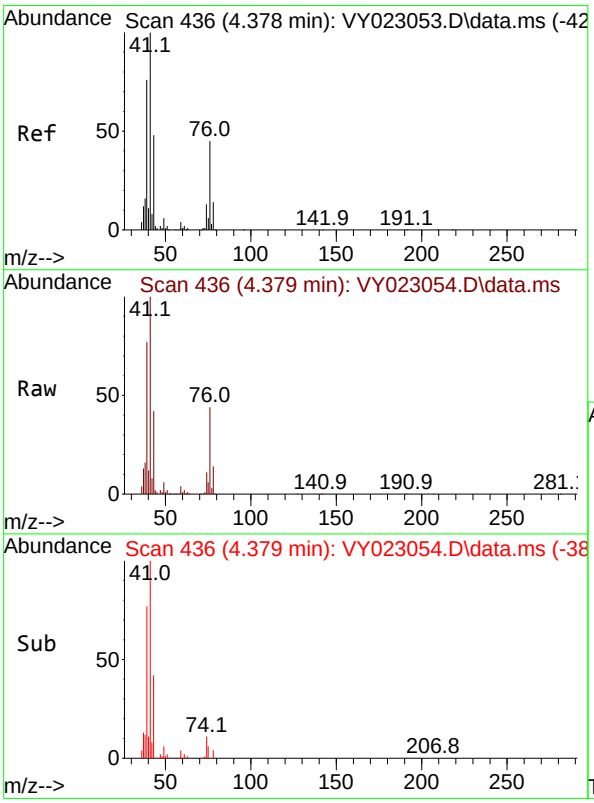
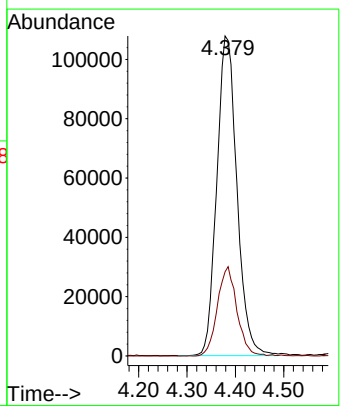


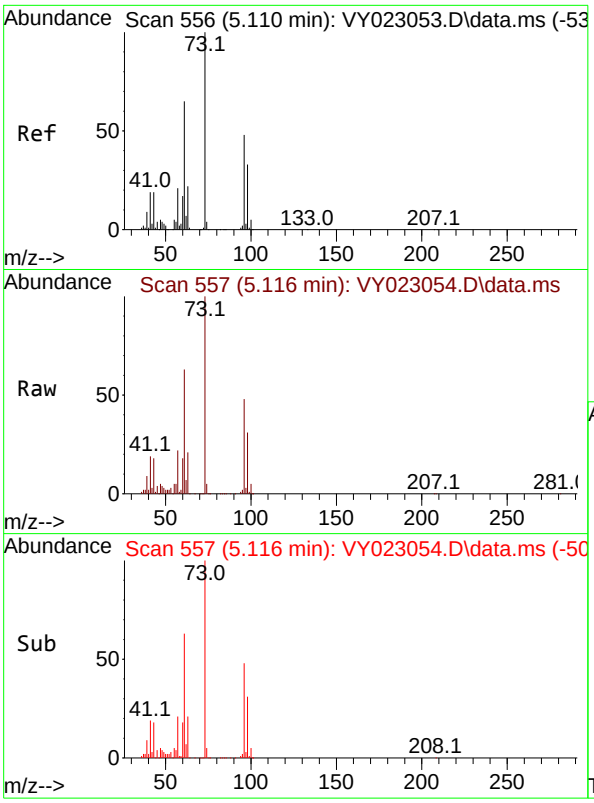


#18
Methyl Acetate
Concen: 90.993 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 312127

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8

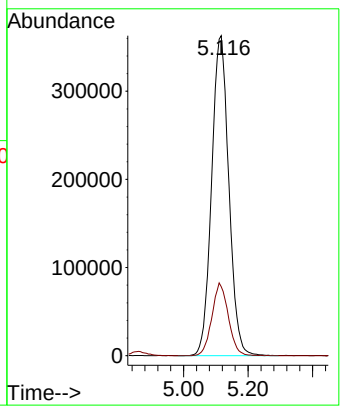




#19
Methyl tert-butyl Ether
Concen: 96.284 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 73 Resp: 134223

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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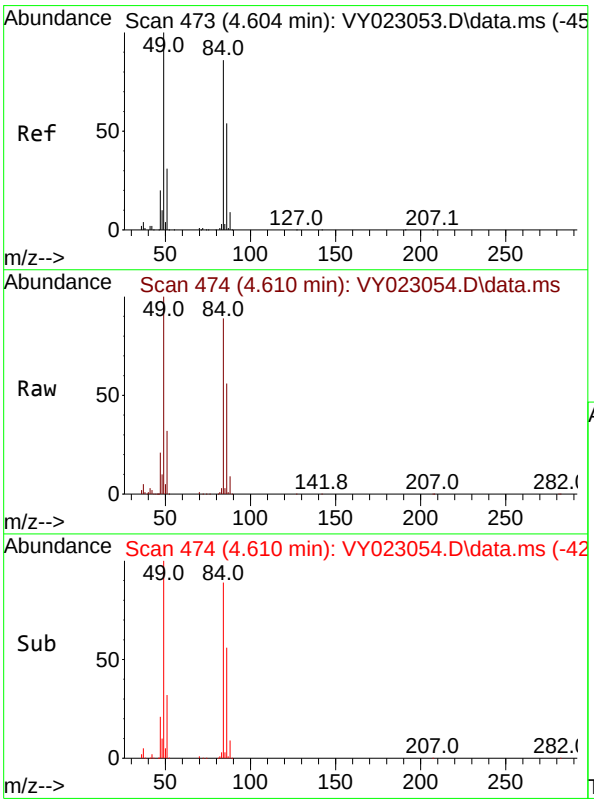
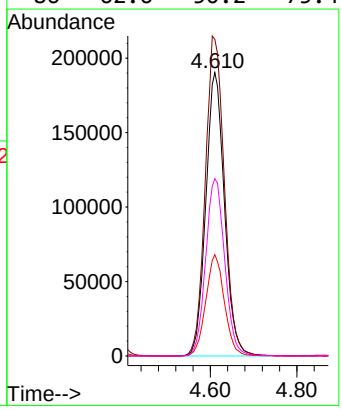
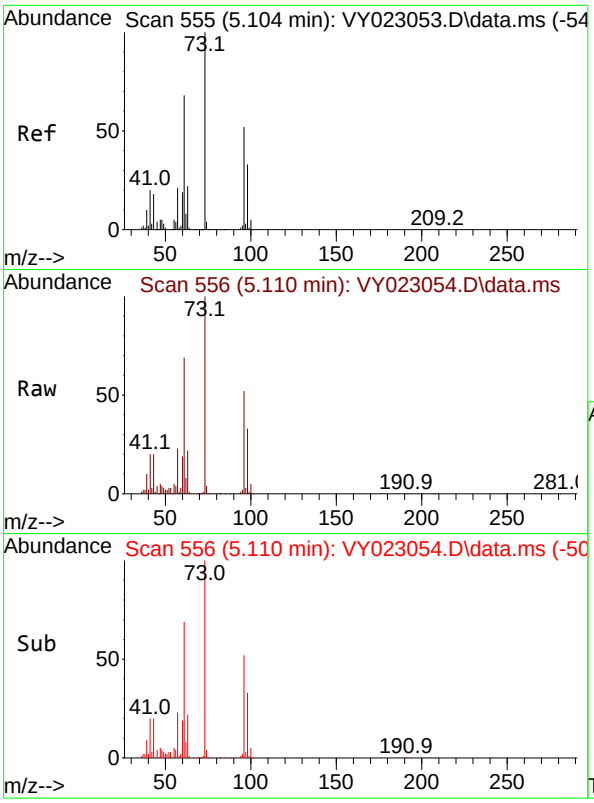


#20
Methylene Chloride
Concen: 97.847 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 84 Resp: 570465

Ion	Ratio	Lower	Upper
84	100		
49	111.7	93.0	139.6
51	35.7	29.0	43.4
86	62.6	50.2	75.4

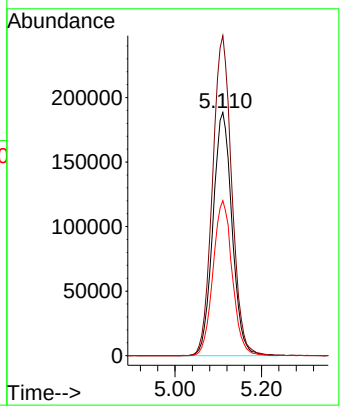




#21
trans-1,2-Dichloroethene
Concen: 96.098 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 58097

Ion	Ratio	Lower	Upper
96	100		
61	131.5	104.8	157.2
98	63.8	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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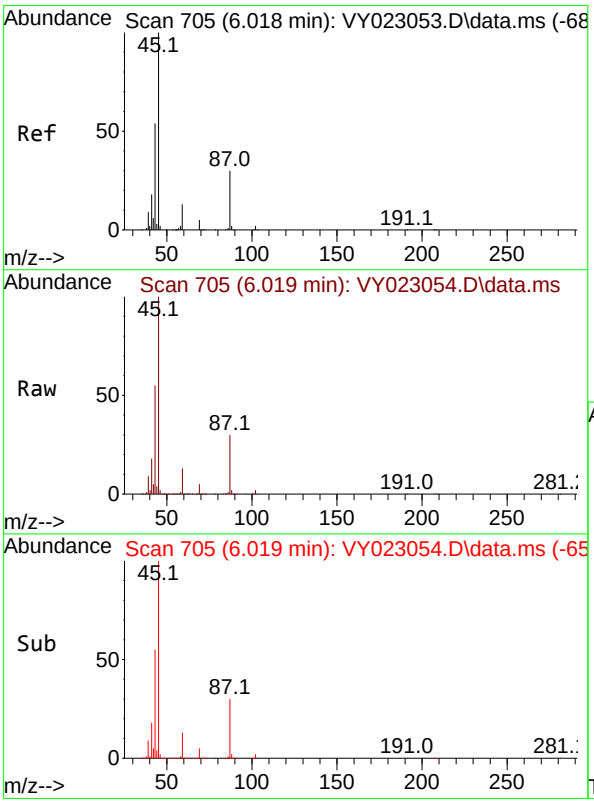
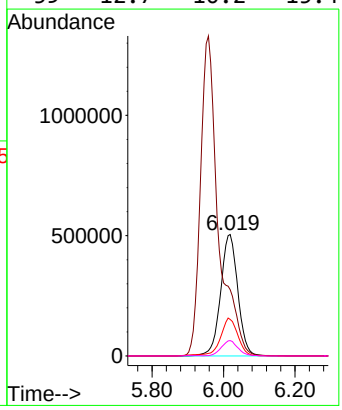
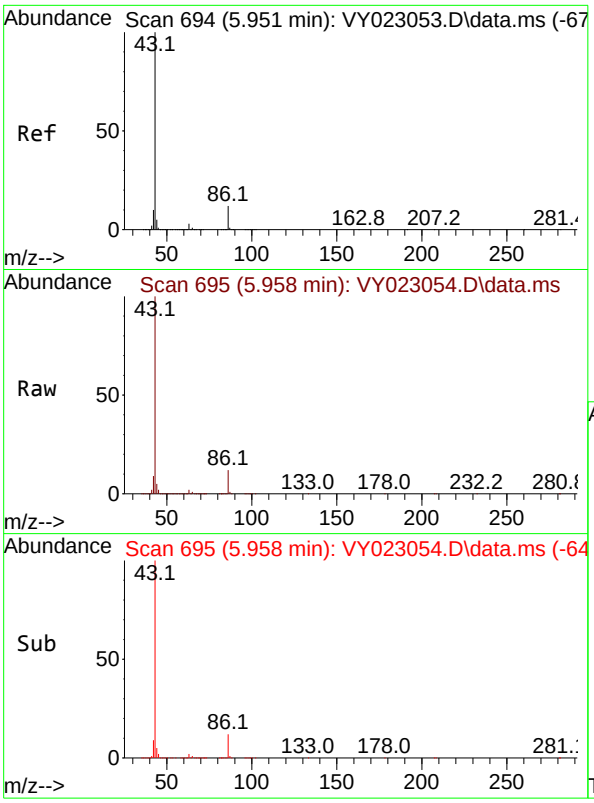


#22
Diisopropyl ether
Concen: 98.033 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 45 Resp: 1686285

Ion	Ratio	Lower	Upper
45	100		
43	54.5	43.4	65.0
87	30.0	24.4	36.6
59	12.7	10.2	15.4

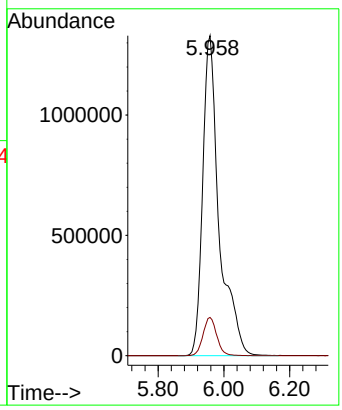




#23
Vinyl Acetate
Concen: 487.023 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 463227

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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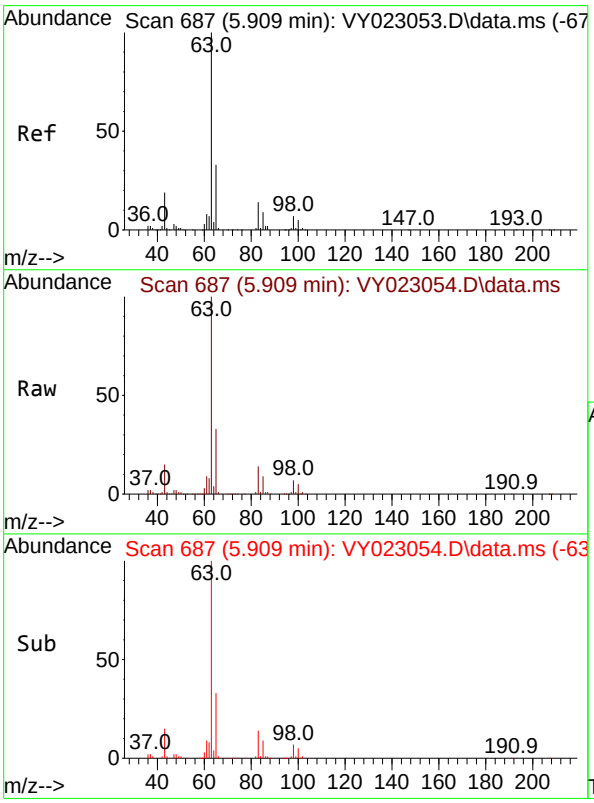
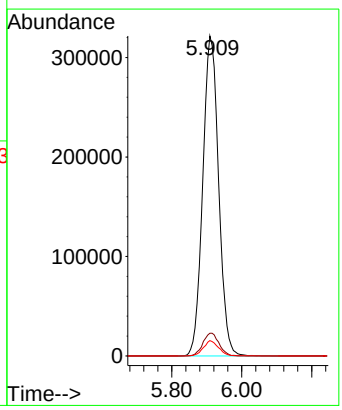
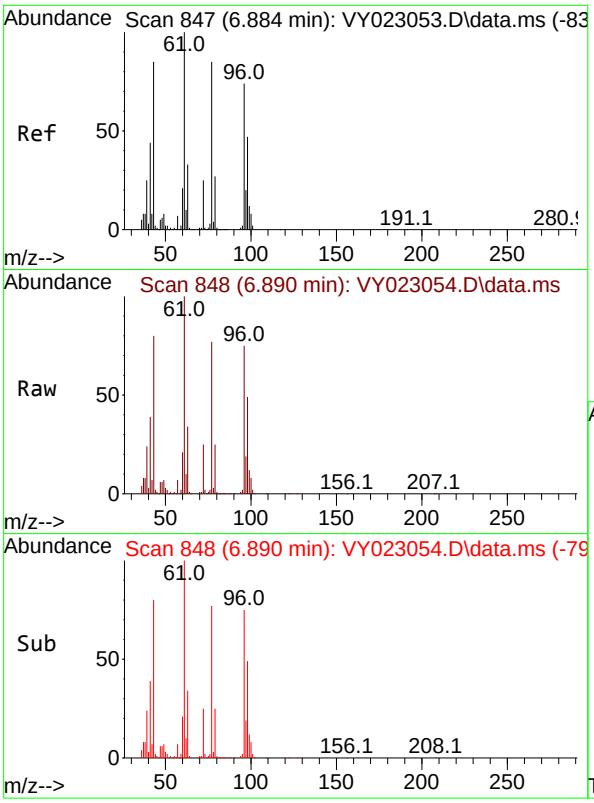


#24
1,1-Dichloroethane
Concen: 96.306 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1012815

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.8	2.4	7.1

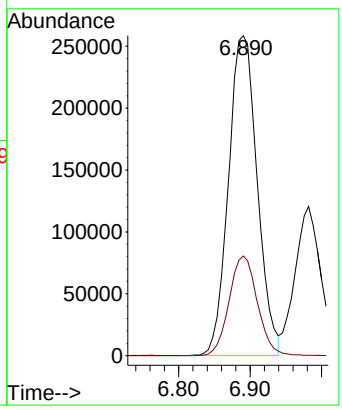




#25
2-Butanone
Concen: 460.899 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 72255

Ion	Ratio	Lower	Upper
43	100		
72	31.2	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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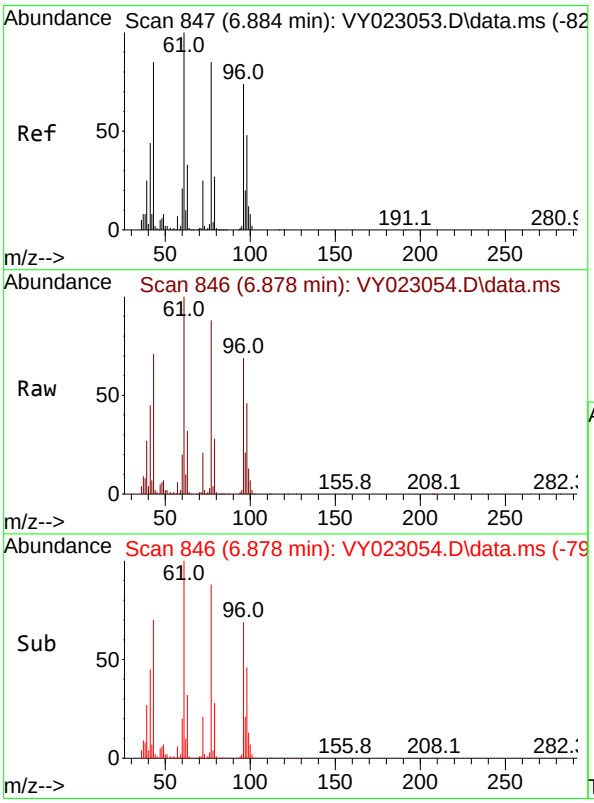
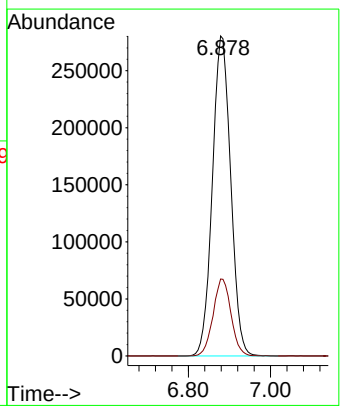
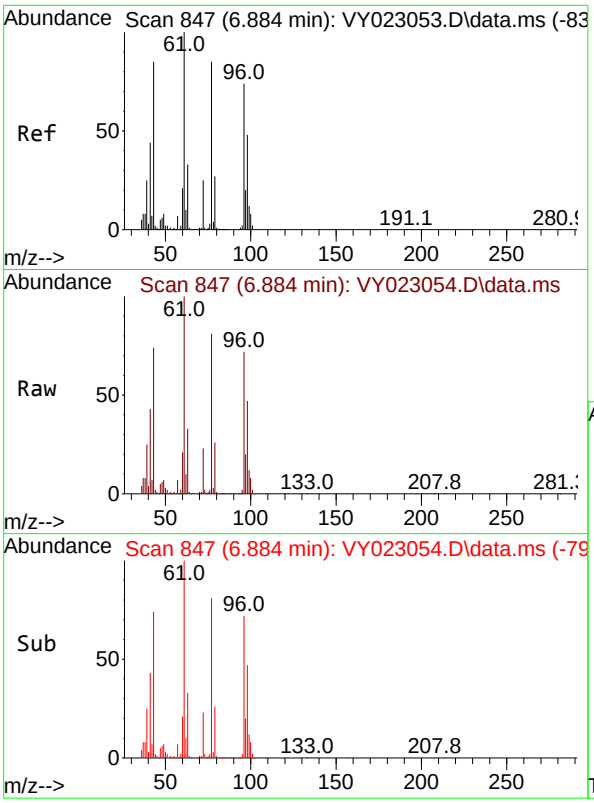


#26
2,2-Dichloropropane
Concen: 95.497 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 77 Resp: 866598

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.8

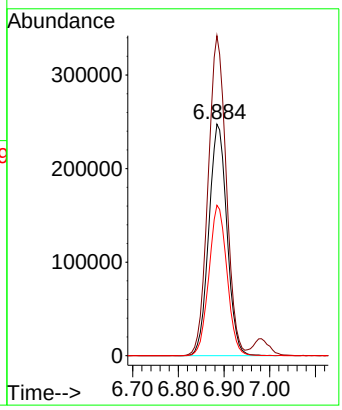




#27
cis-1,2-Dichloroethene
Concen: 97.472 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 68124

Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	278.6
98	65.0	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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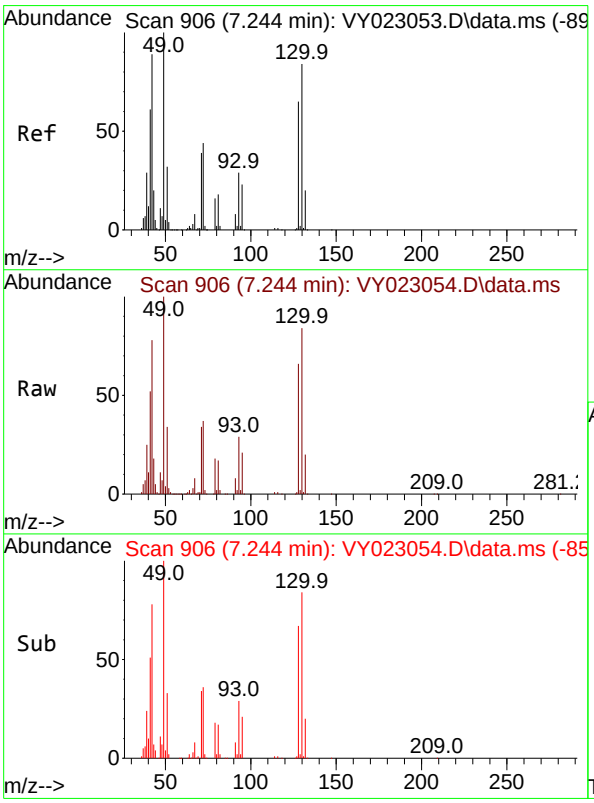
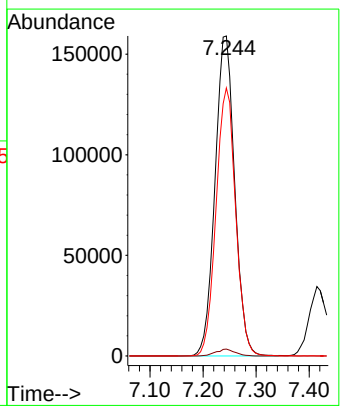
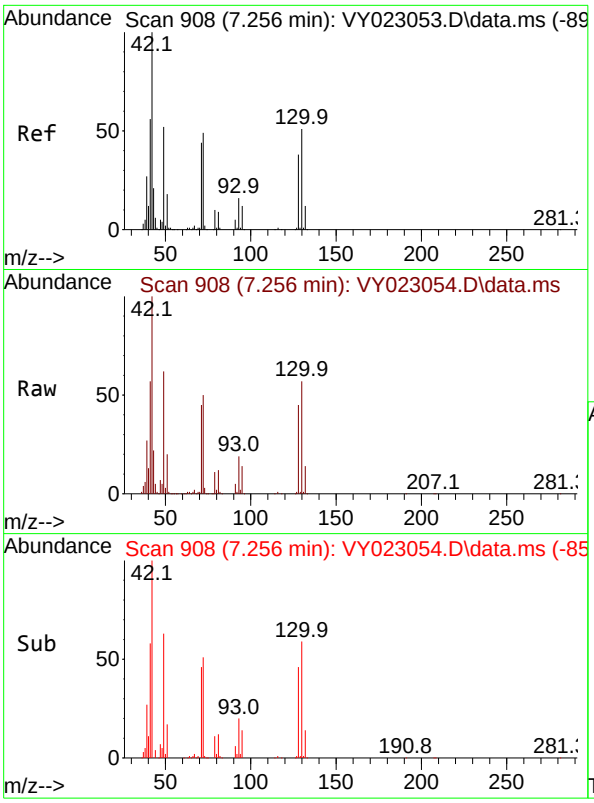


#28
Bromochloromethane
Concen: 98.188 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 49 Resp: 409677

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.4	66.4	99.6

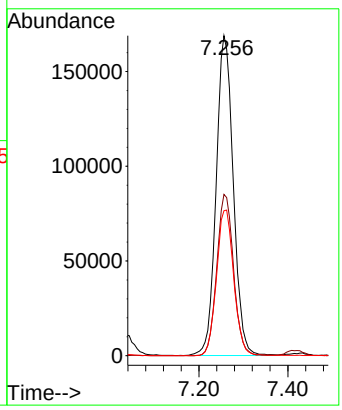




#29
Tetrahydrofuran
Concen: 464.370 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 42 Resp: 45125

Ion	Ratio	Lower	Upper
42	100		
72	49.4	39.4	59.2
71	45.8	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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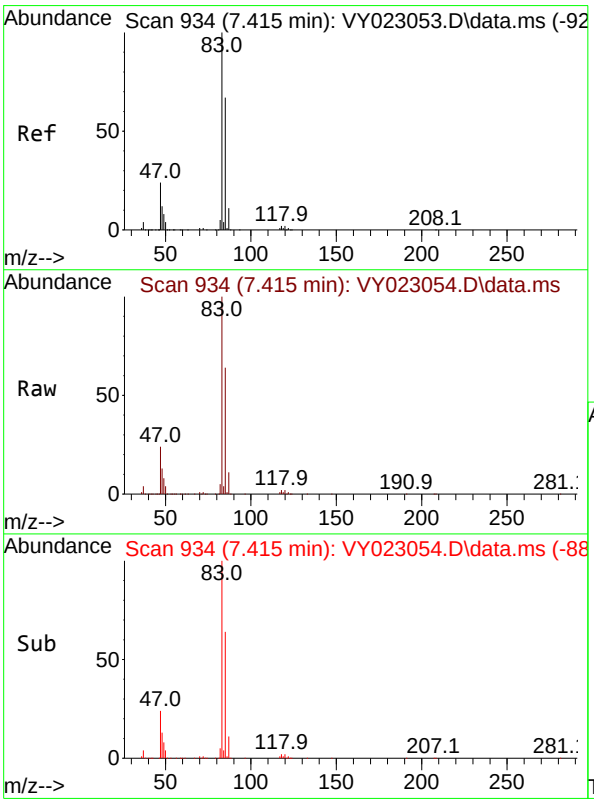
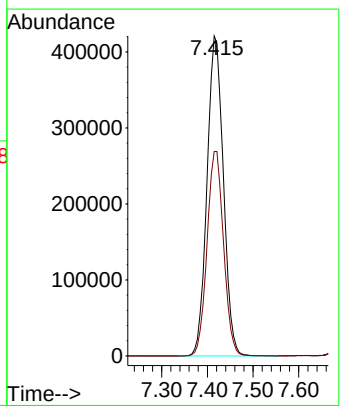
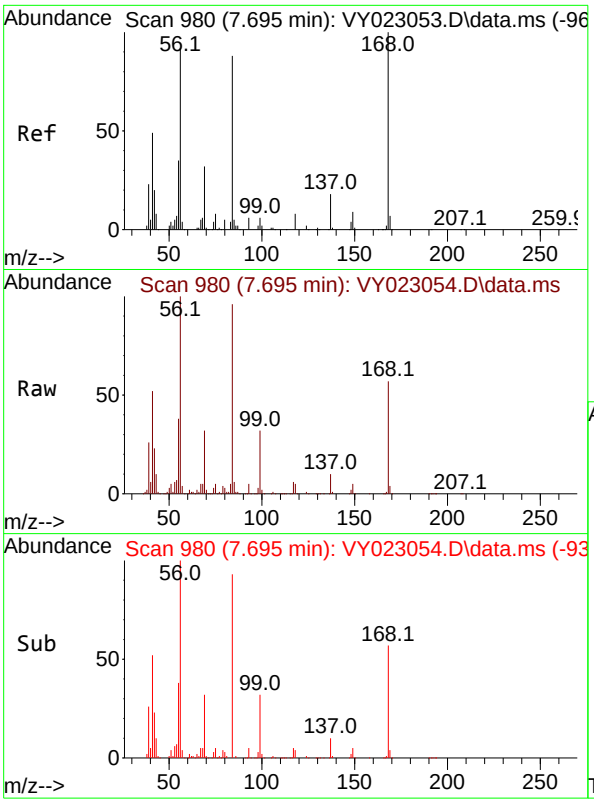


#30
Chloroform
Concen: 96.383 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 1045381

Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.8	80.8

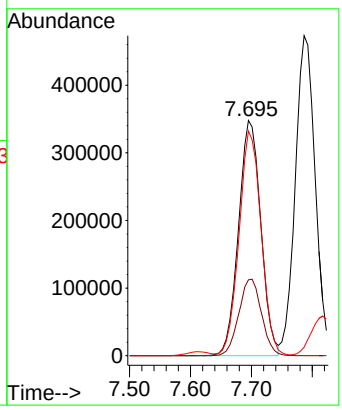




#31
Cyclohexane
Concen: 89.271 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 56 Resp: 88470

Ion	Ratio	Lower	Upper
56	100		
69	32.3	28.2	42.2
84	95.2	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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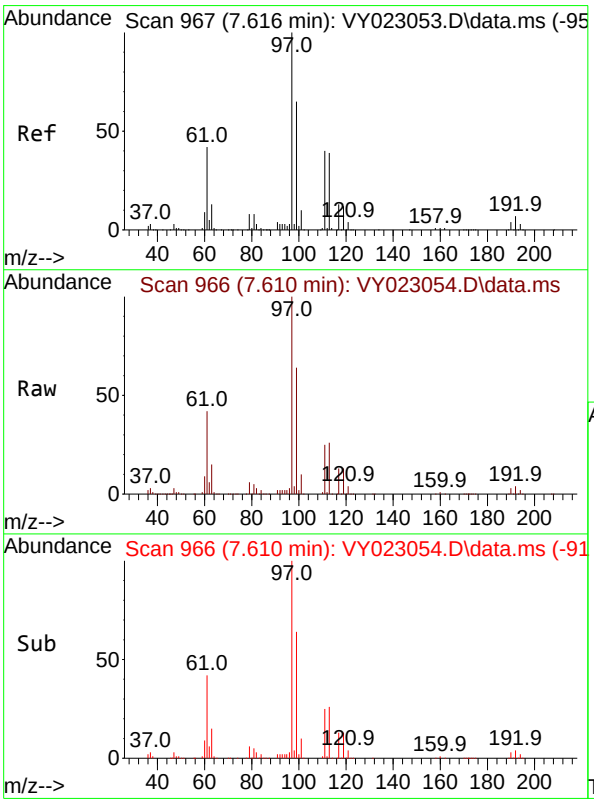
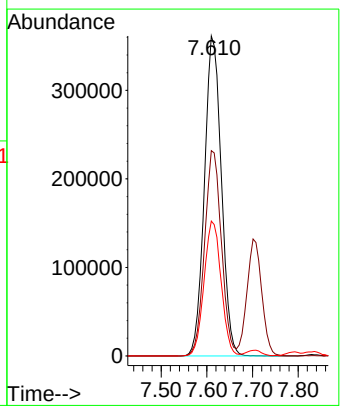
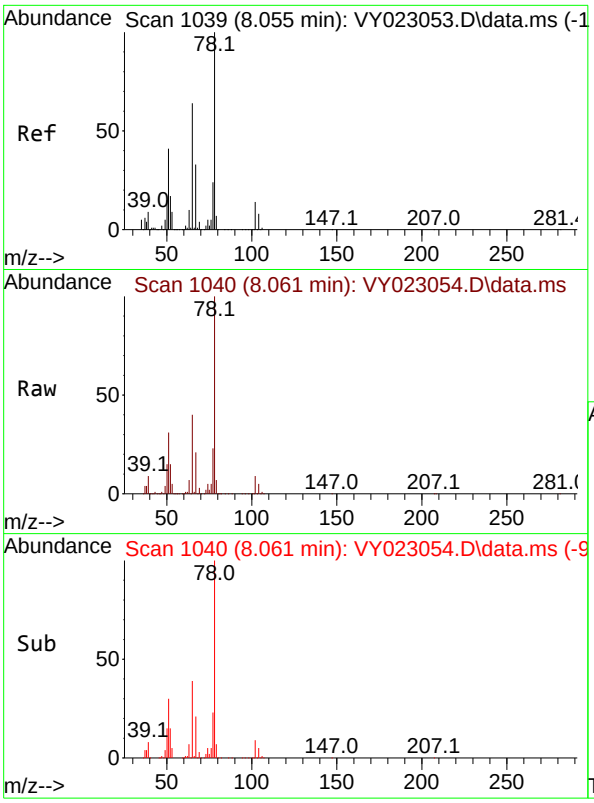


#32
1,1,1-Trichloroethane
Concen: 96.620 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 97 Resp: 929858

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	42.5	34.2	51.2

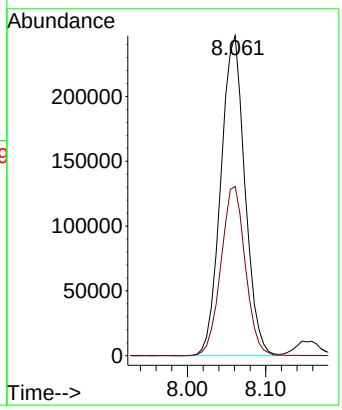




#33
1,2-Dichloroethane-d4
Concen: 99.115 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 65 Resp: 52735(

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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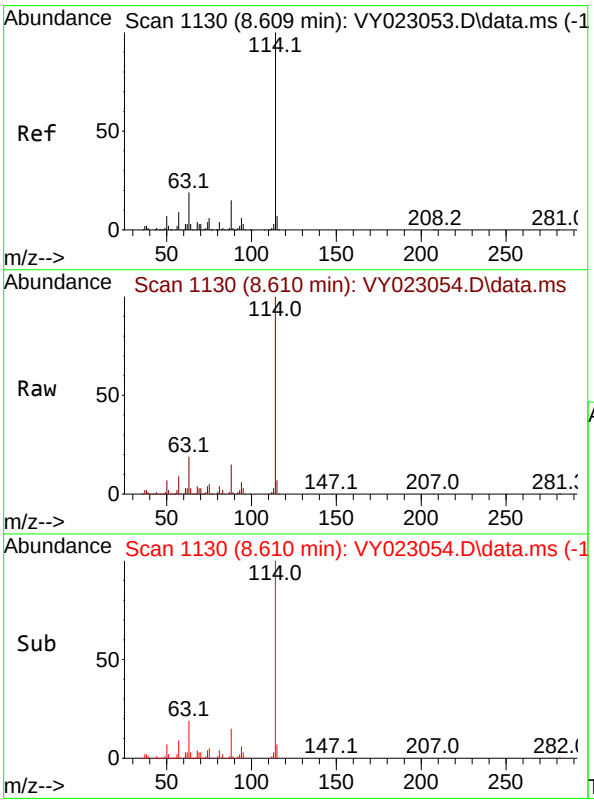
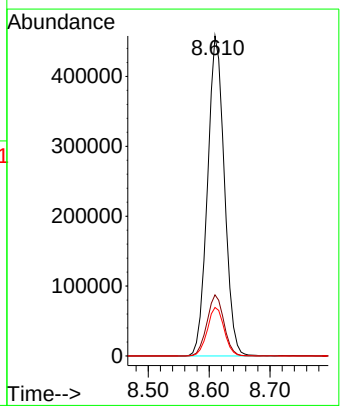
Supervised By :Semsettin Yesilyurt 08/14/2025

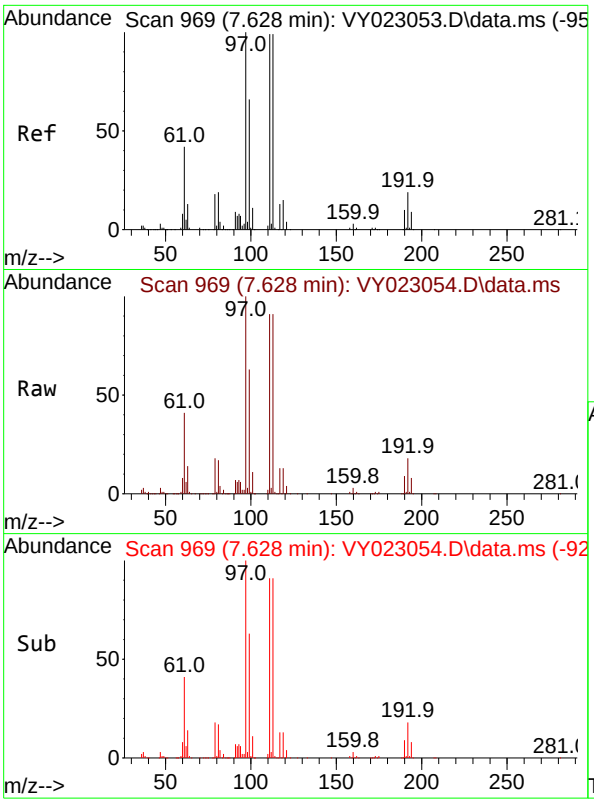


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:114 Resp: 880463

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.4
88	15.2	0.0	30.0





#35
Dibromofluoromethane
Concen: 102.518 ug/l
RT: 7.628 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:113 Resp: 54010(

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	20.4	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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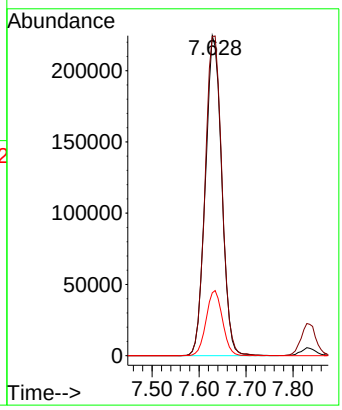
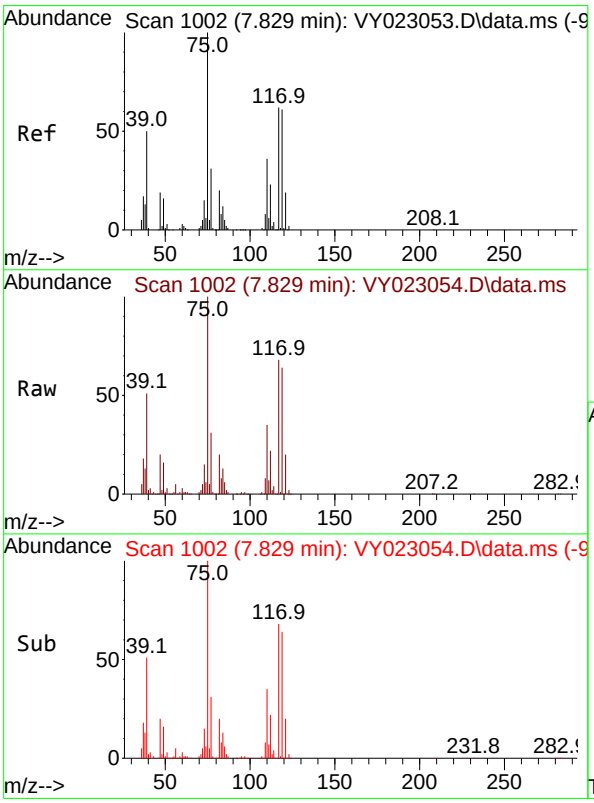
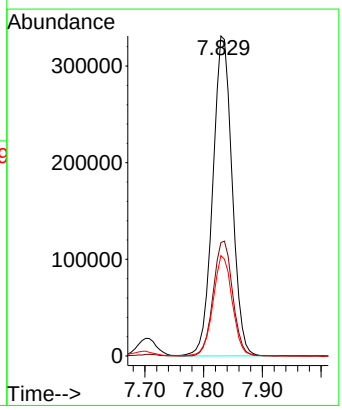


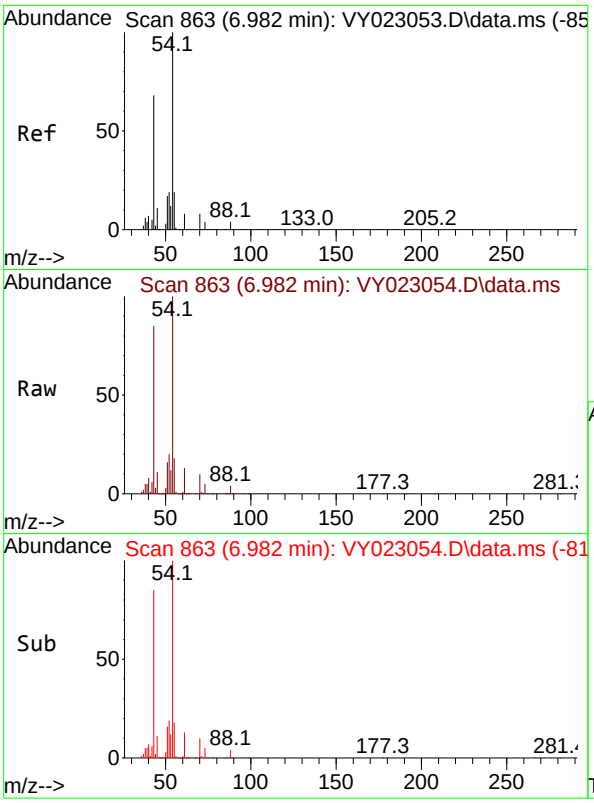


#36
1,1-Dichloropropene
Concen: 96.443 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 755114

Ion	Ratio	Lower	Upper
75	100		
110	36.1	18.1	54.4
77	31.3	24.6	37.0

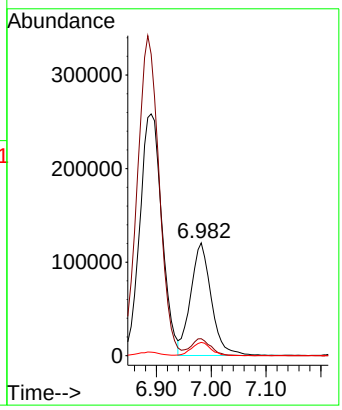




#37
Ethyl Acetate
Concen: 95.302 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 31344

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.9	17.9
70	11.2	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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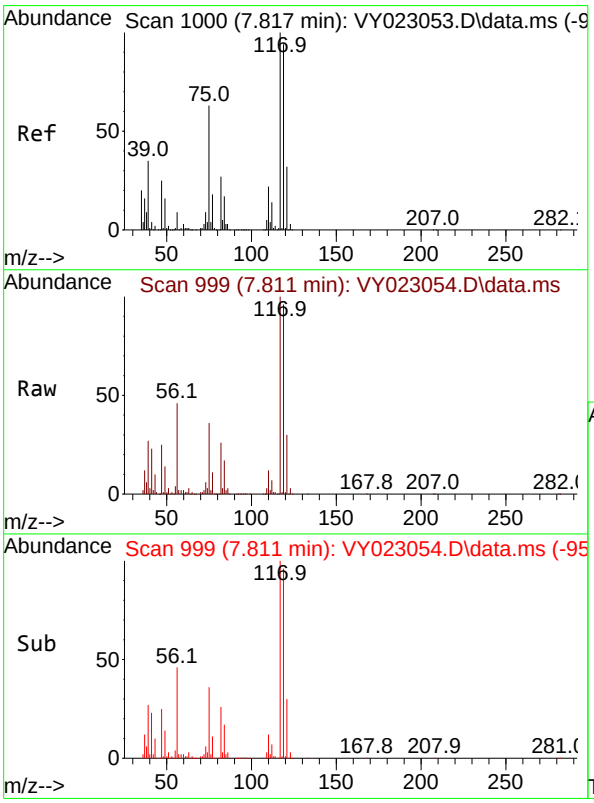
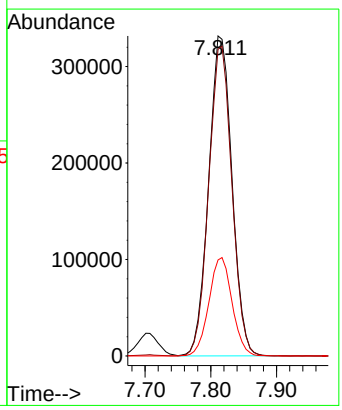
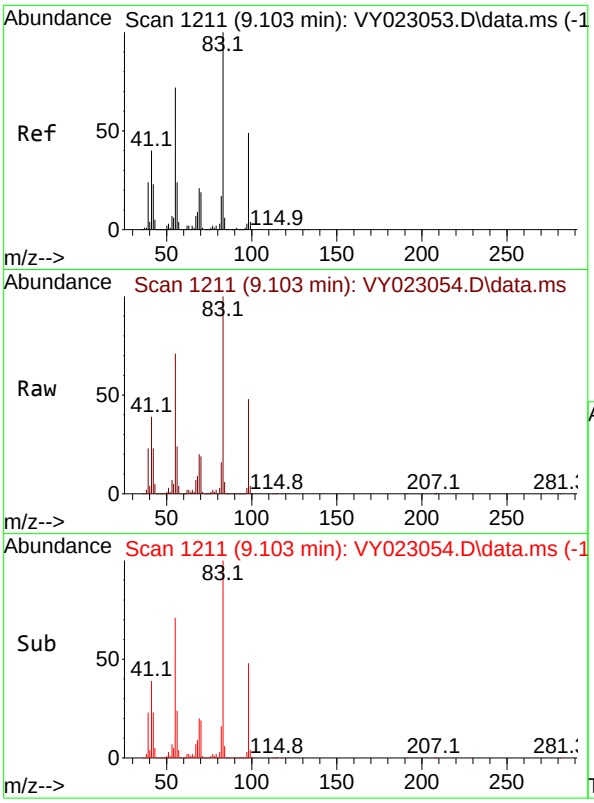


#38
Carbon Tetrachloride
Concen: 96.419 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 819941

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.6	113.4
121	30.0	25.8	38.8





#39
Methylcyclohexane
Concen: 98.146 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 101194

Ion	Ratio	Lower	Upper
83	100		
55	70.9	57.6	86.4
98	48.2	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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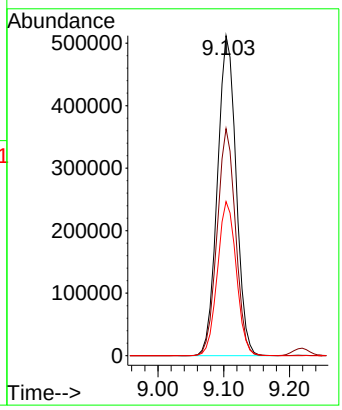
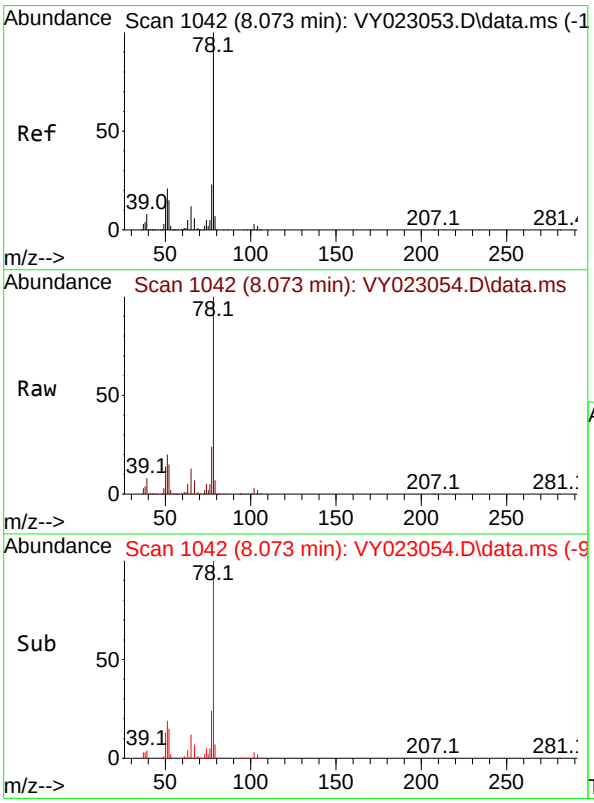
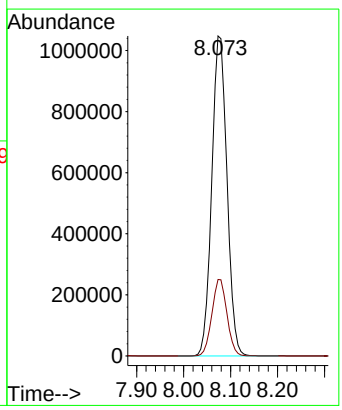


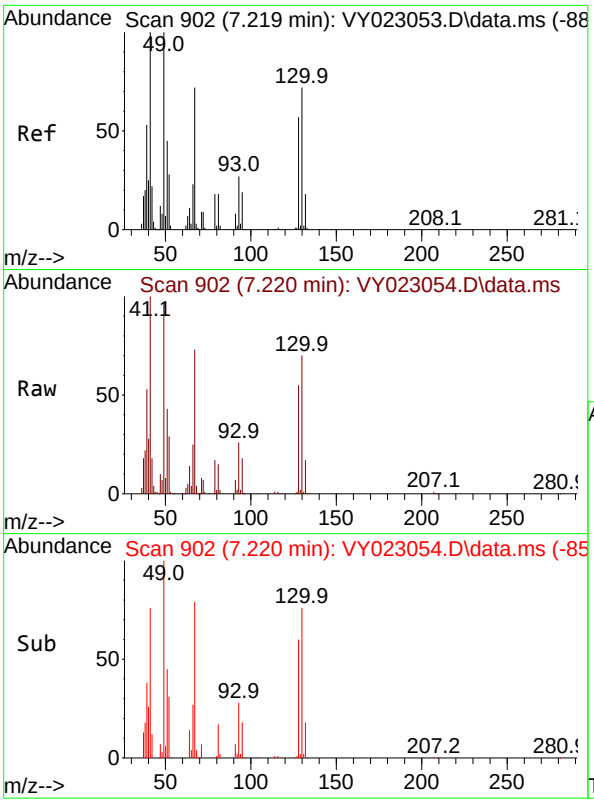


#40
Benzene
Concen: 97.324 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 78 Resp: 2348617

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0

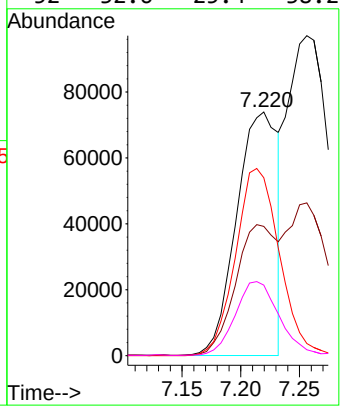




#41
Methacrylonitrile
Concen: 94.973 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 18046

Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.4	65.2
67	82.3	63.6	95.4
52	32.6	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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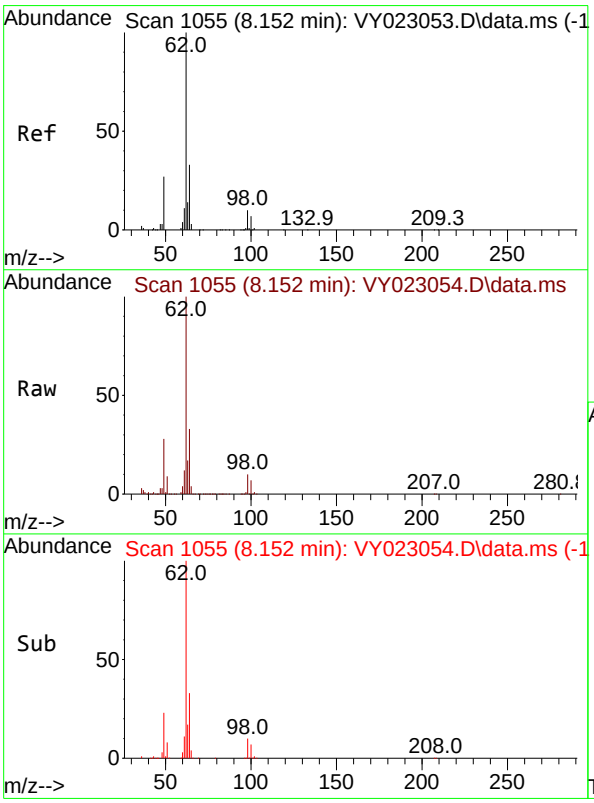
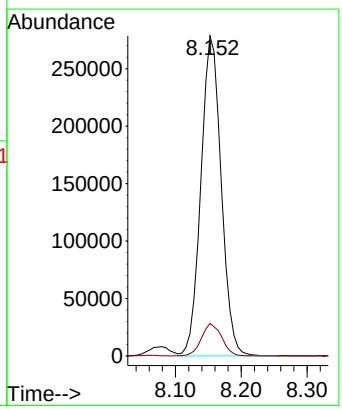
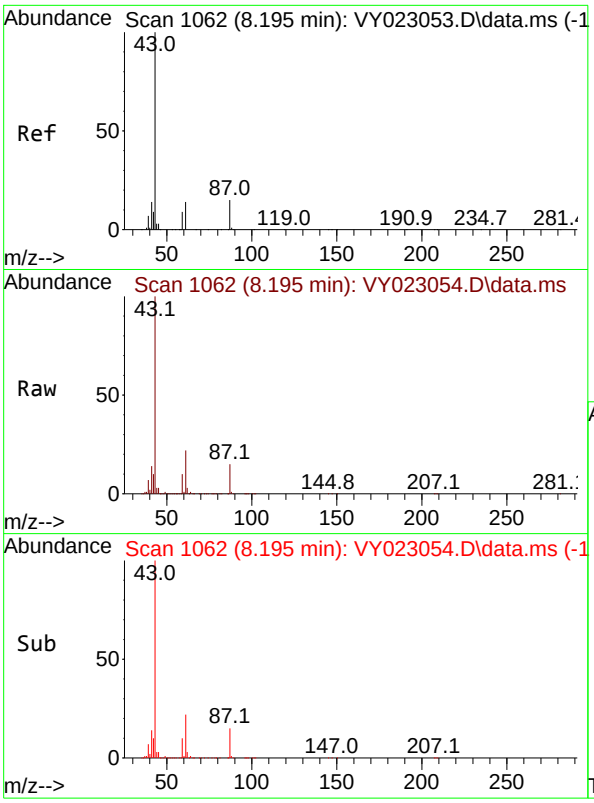


#42
1,2-Dichloroethane
Concen: 95.155 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 597215

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6





#43
Isopropyl Acetate
Concen: 95.780 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 6367

Ion	Ratio	Lower	Upper
43	100		
61	21.0	16.4	24.6
87	14.9	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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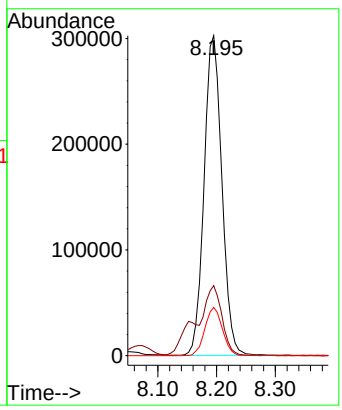
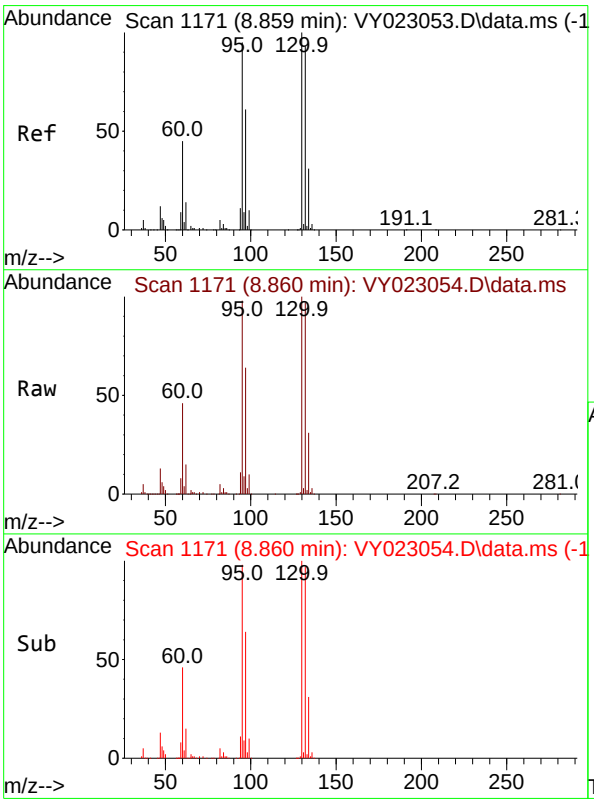
Supervised By :Semsettin Yesilyurt 08/14/2025

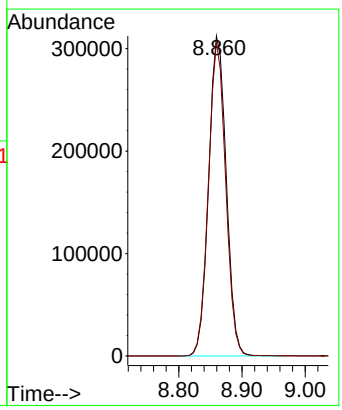


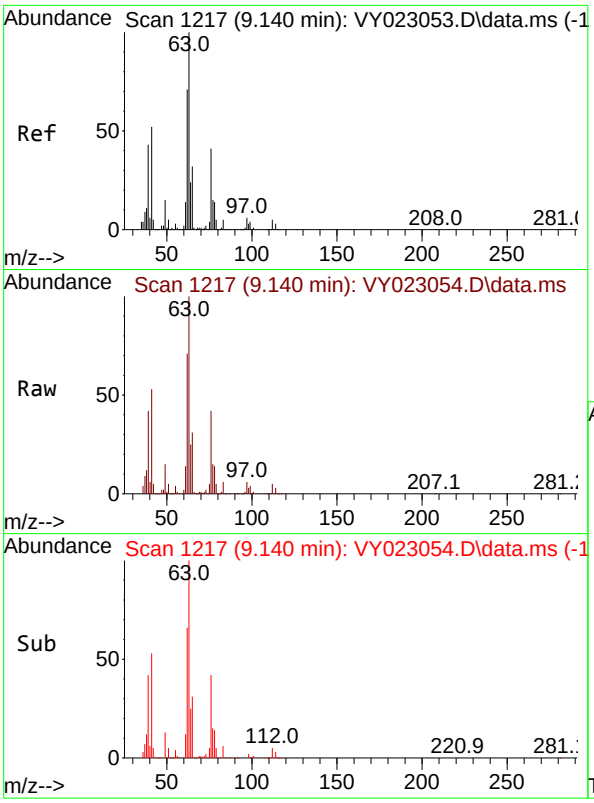


#44
Trichloroethene
Concen: 96.584 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:130 Resp: 602322

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	190.2

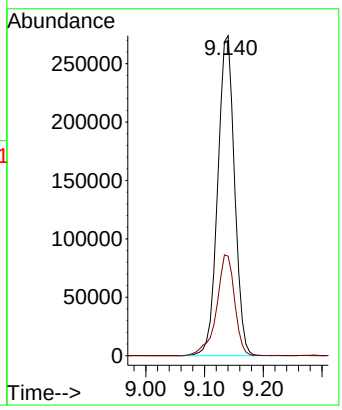




#45
1,2-Dichloropropane
Concen: 97.899 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 54358

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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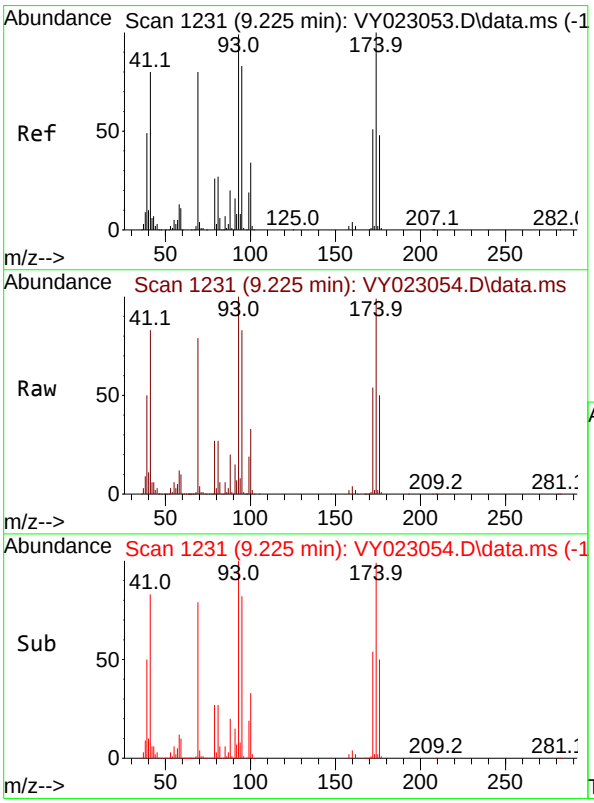
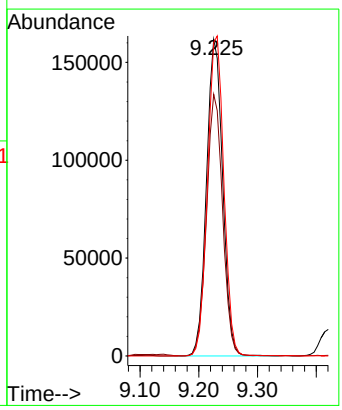
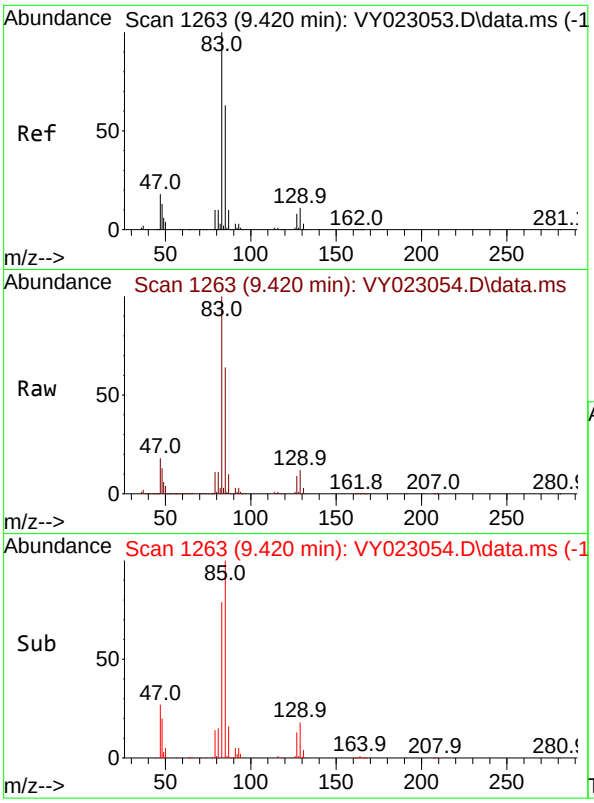


#46
Dibromomethane
Concen: 97.052 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 93 Resp: 309302

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.5	99.7
174	101.9	81.8	122.8

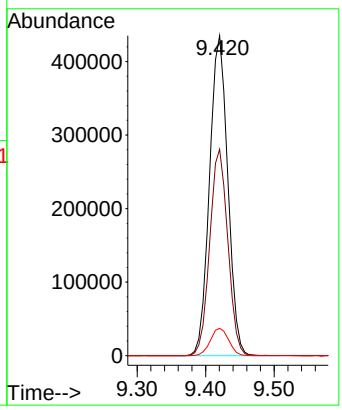




#47
Bromodichloromethane
Concen: 97.864 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 80253

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.2	75.4
127	8.5	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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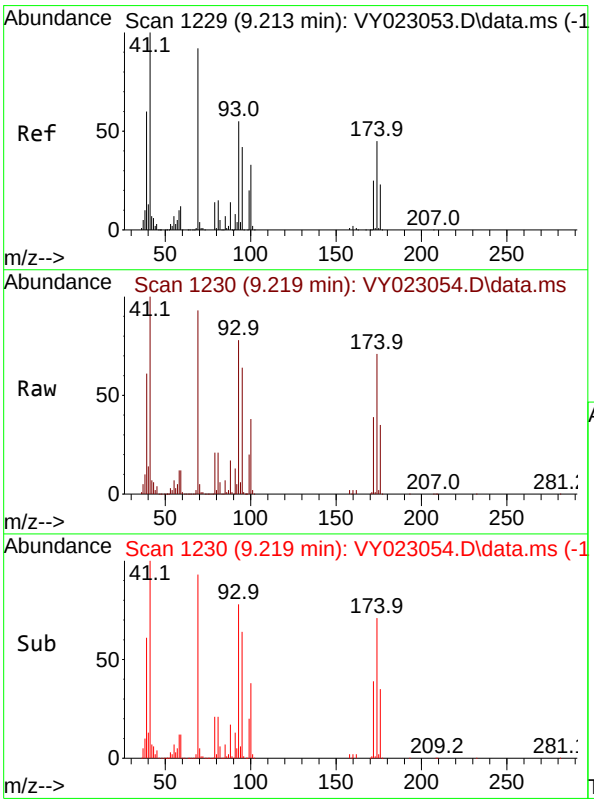
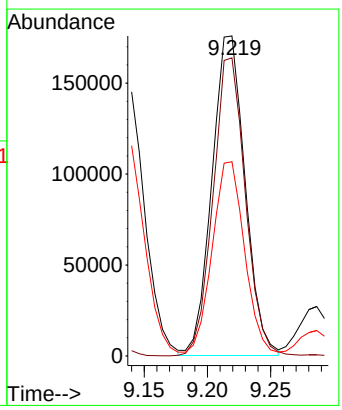
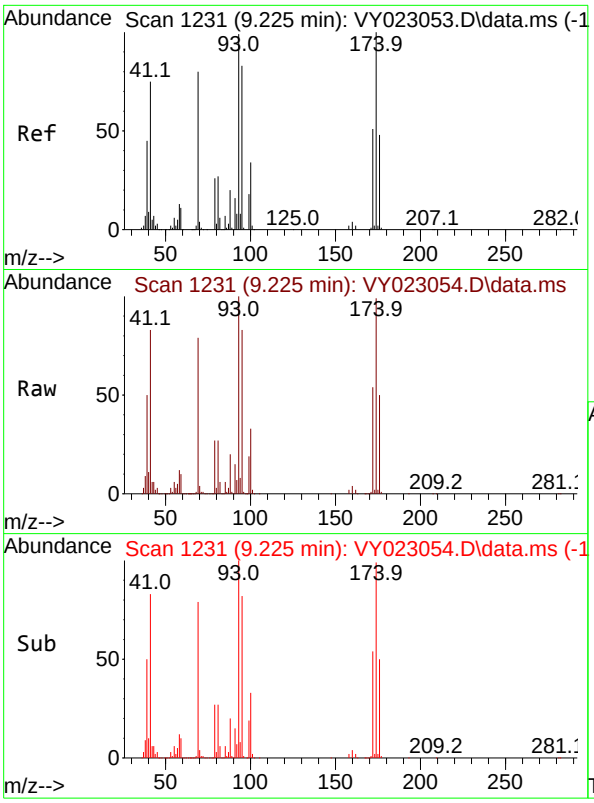


#48
Methyl methacrylate
Concen: 100.567 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 319906

Ion	Ratio	Lower	Upper
41	100		
69	91.4	73.2	109.8
39	57.6	47.0	70.4





#49
1,4-Dioxane
Concen: 1908.039 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 88 Resp: 7130

Ion	Ratio	Lower	Upper
88	100		
43	30.6	24.3	36.5
58	62.4	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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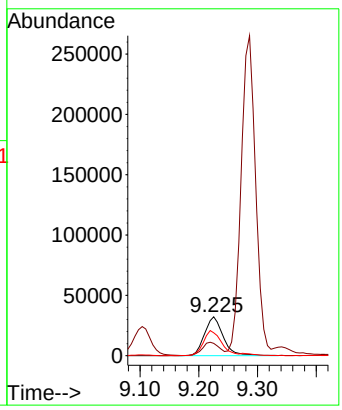
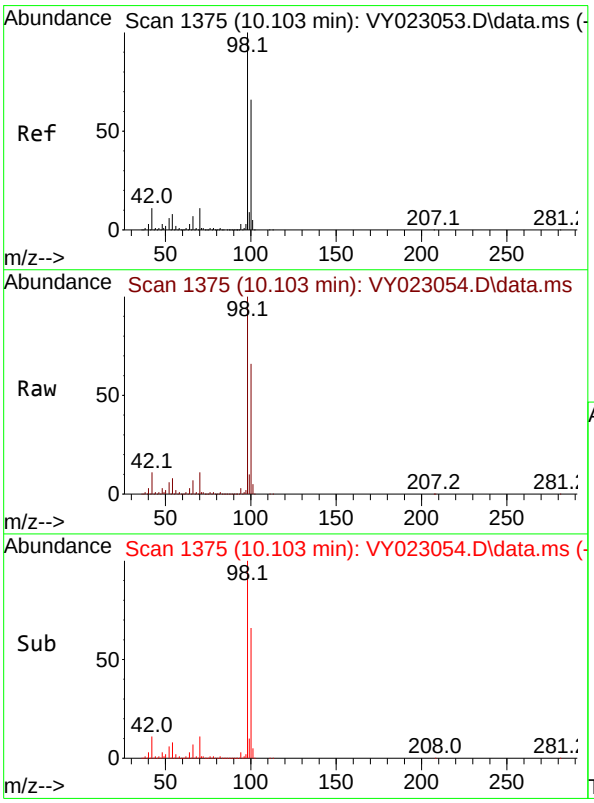
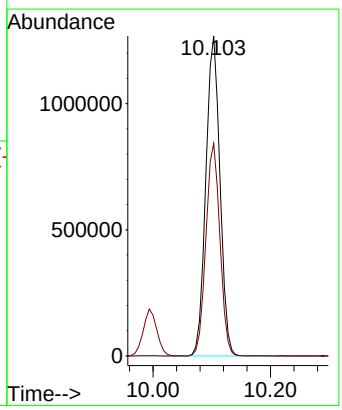


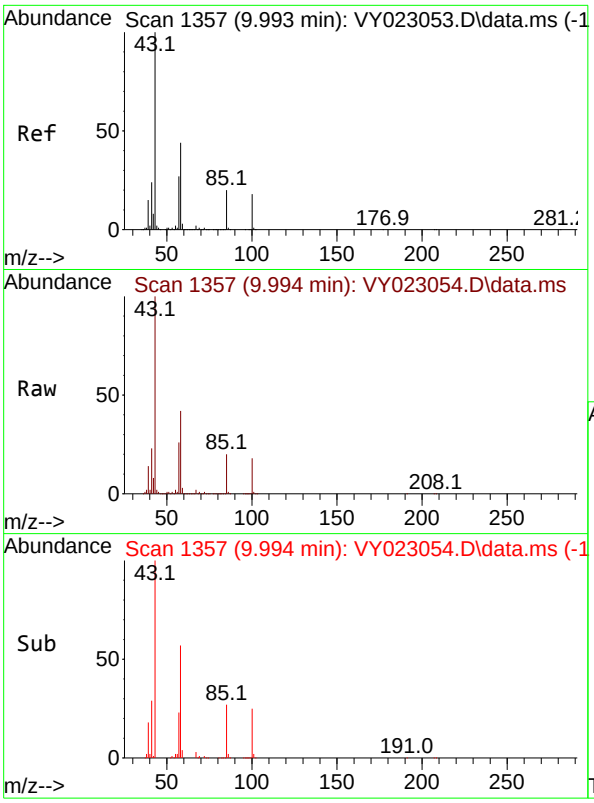


#50
Toluene-d8
Concen: 102.832 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 98 Resp: 2116445

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.3	78.5

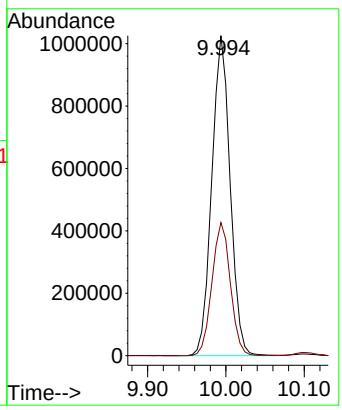




#51
4-Methyl-2-Pentanone
Concen: 486.924 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 166966

Ion	Ratio	Lower	Upper
43	100		
58	41.8	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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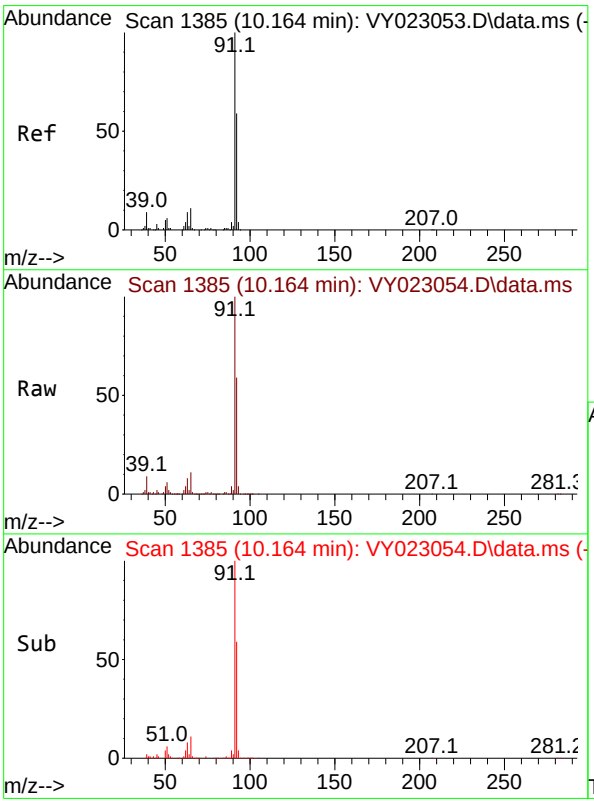
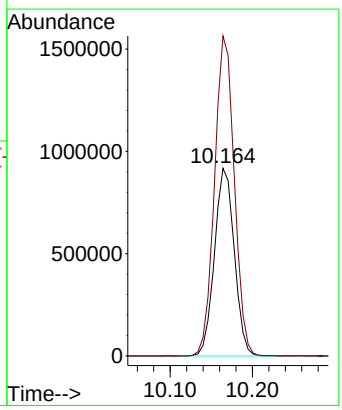
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

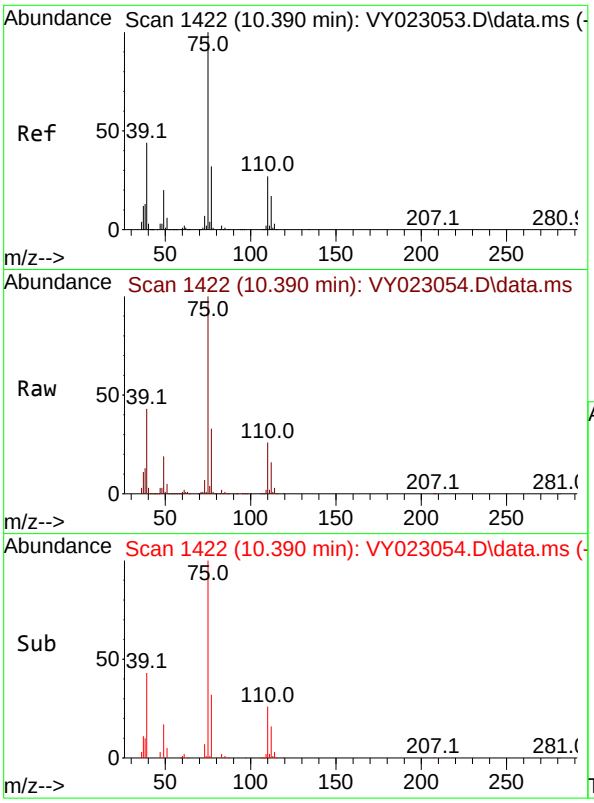


#52
Toluene
Concen: 100.288 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 92 Resp: 1537088

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6

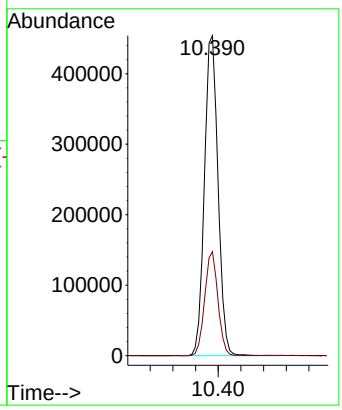




#53
t-1,3-Dichloropropene
Concen: 101.574 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 75427

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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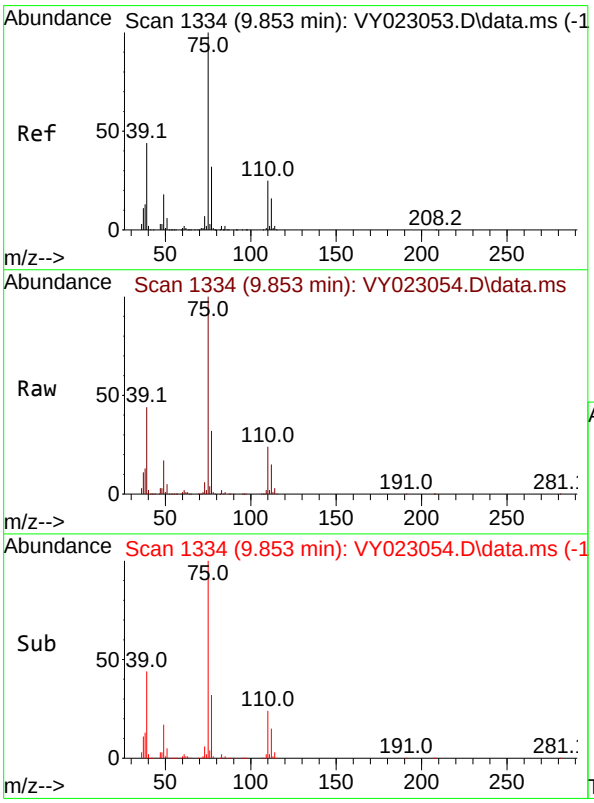
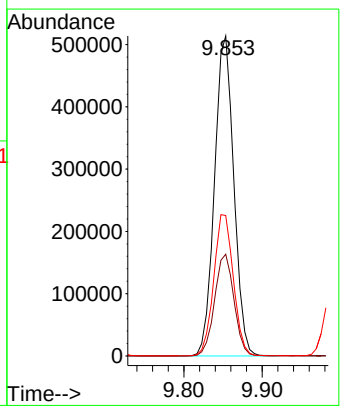
Supervised By :Semsettin Yesilyurt 08/14/2025

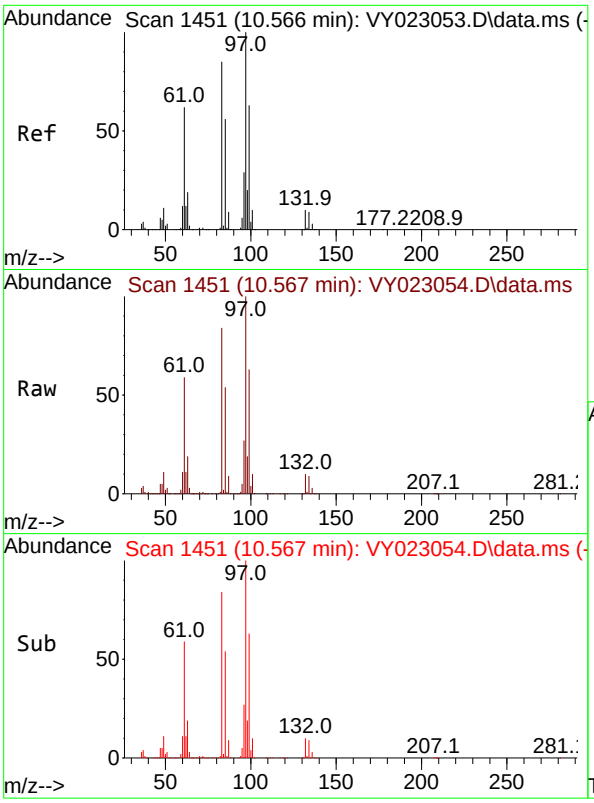


#54
cis-1,3-Dichloropropene
Concen: 100.281 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 880571

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.0
39	43.9	35.6	53.4

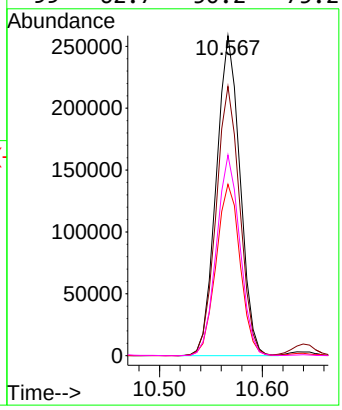




#55
1,1,2-Trichloroethane
Concen: 97.446 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 97 Resp: 41555

Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.7	101.5
85	53.5	44.5	66.7
99	62.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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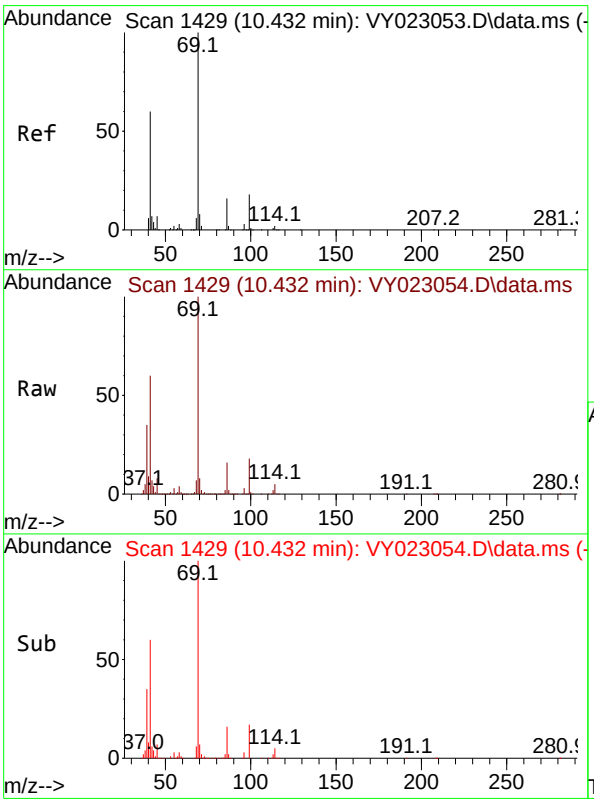
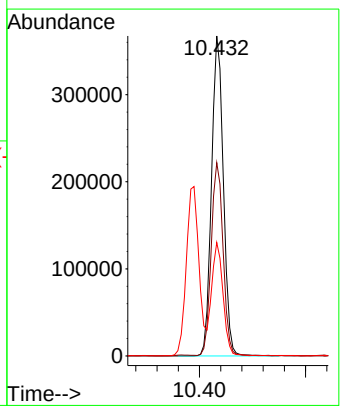
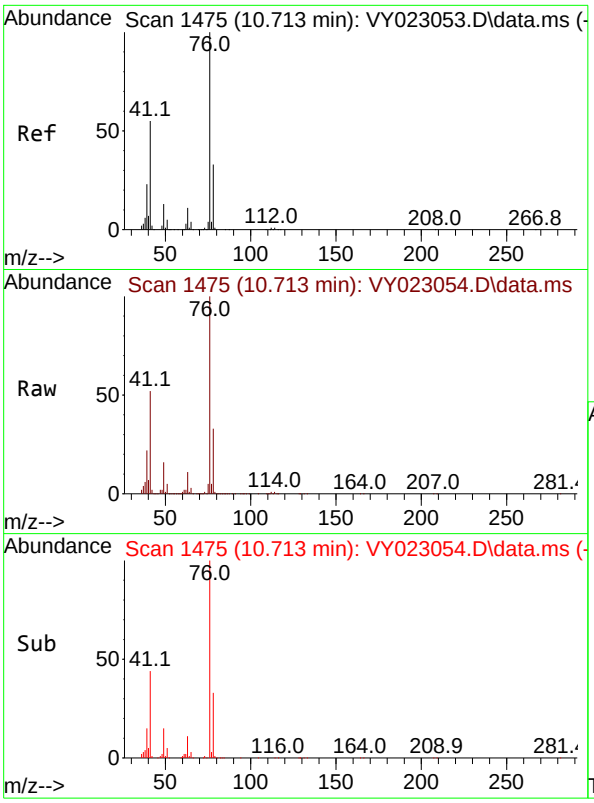


#56
Ethyl methacrylate
Concen: 104.375 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 69 Resp: 569556

Ion	Ratio	Lower	Upper
69	100		
41	60.4	48.6	72.8
39	33.4	27.0	40.4

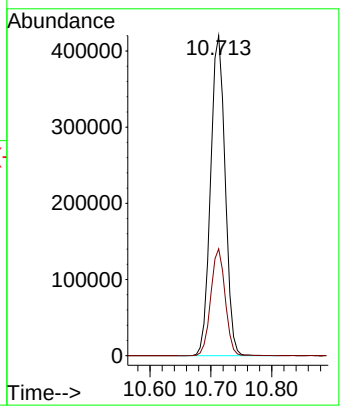




#57
1,3-Dichloropropane
Concen: 96.253 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 76 Resp: 69613

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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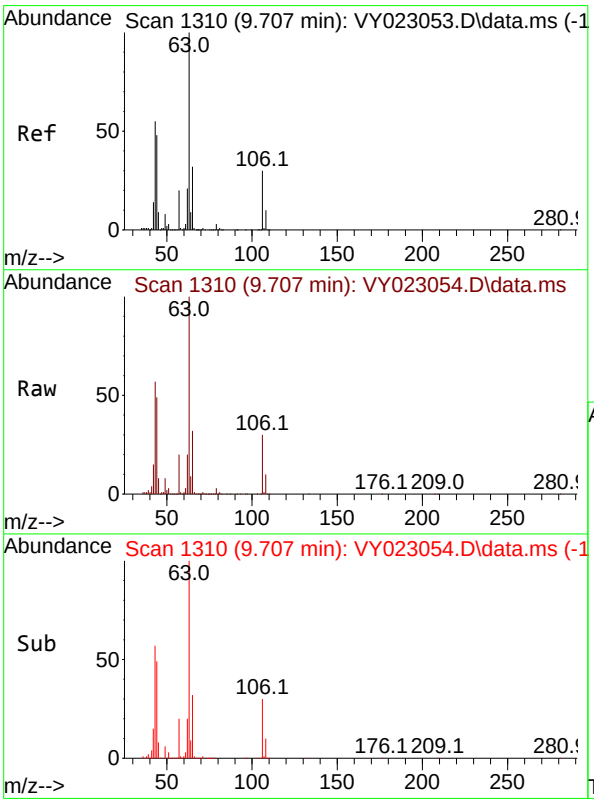
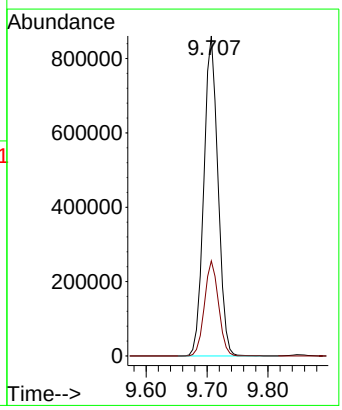
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

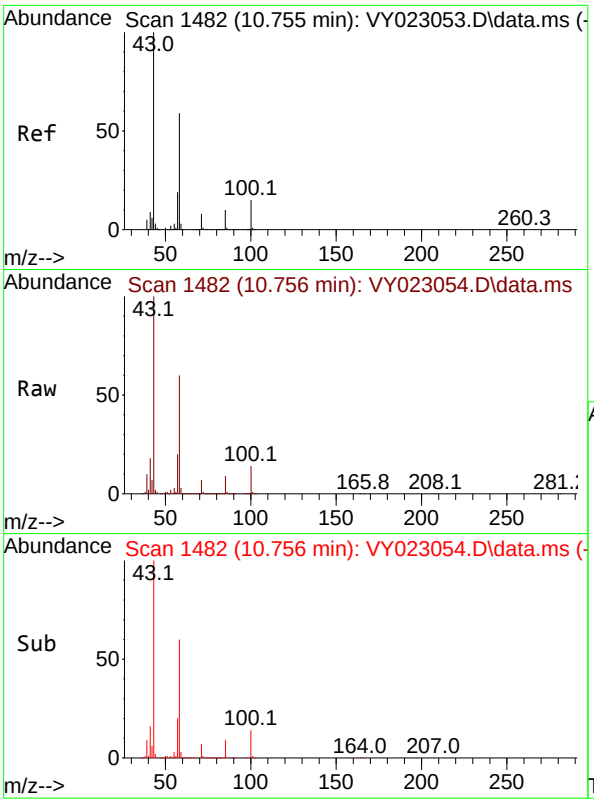


#58
2-Chloroethyl Vinyl ether
Concen: 539.957 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1389847

Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.2	34.8





#59
2-Hexanone
Concen: 492.950 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 115100

Ion	Ratio	Lower	Upper
43	100		
58	58.9	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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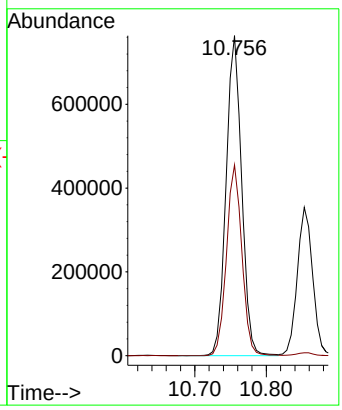
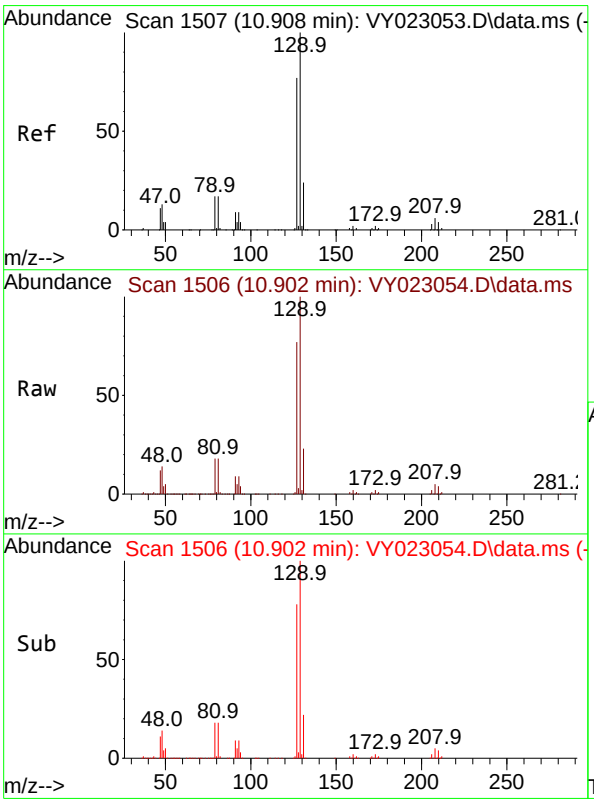
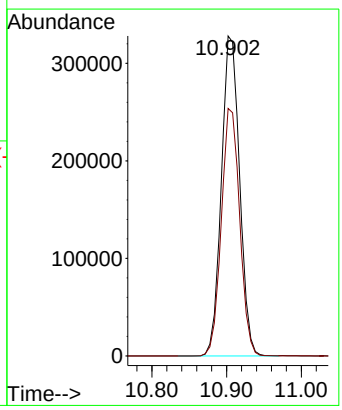


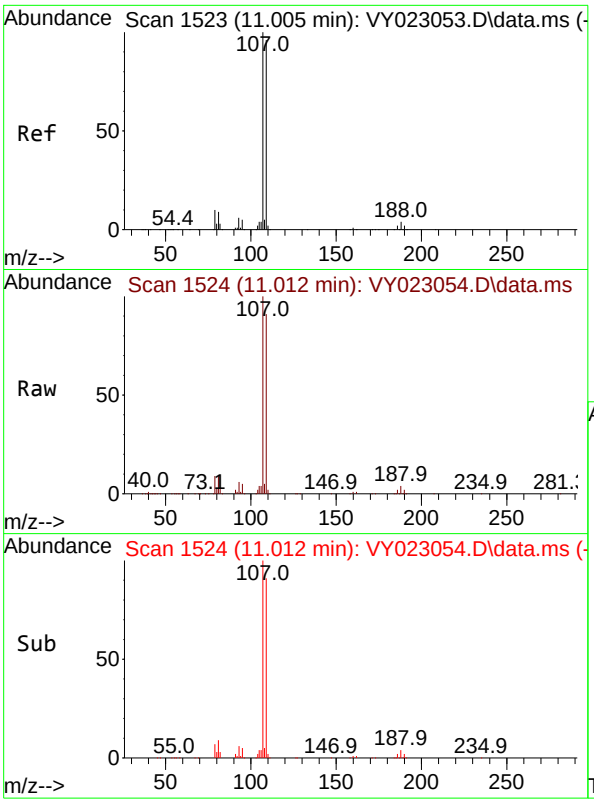


#60
Dibromochloromethane
Concen: 99.024 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:129 Resp: 557205

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5





#61
1,2-Dibromoethane
Concen: 97.713 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:107 Resp: 39165

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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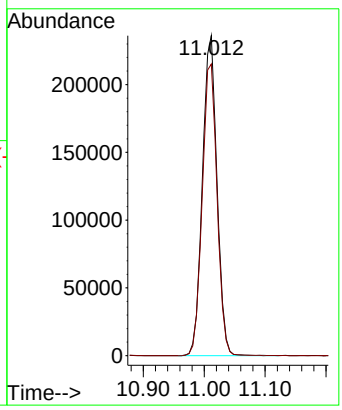
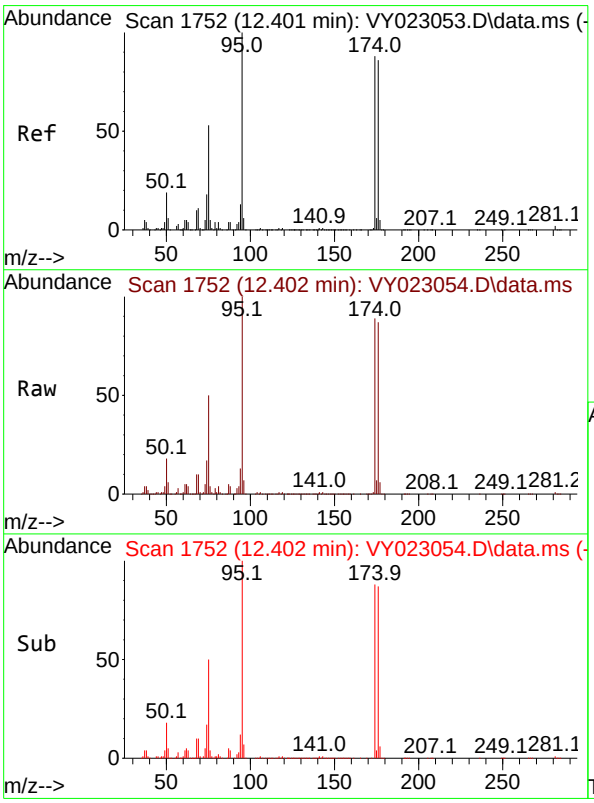
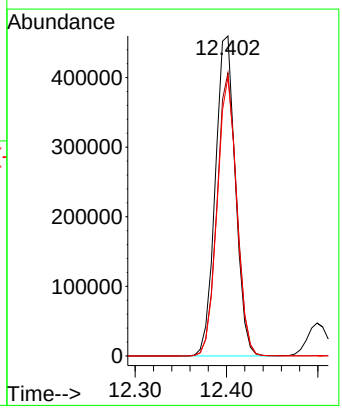


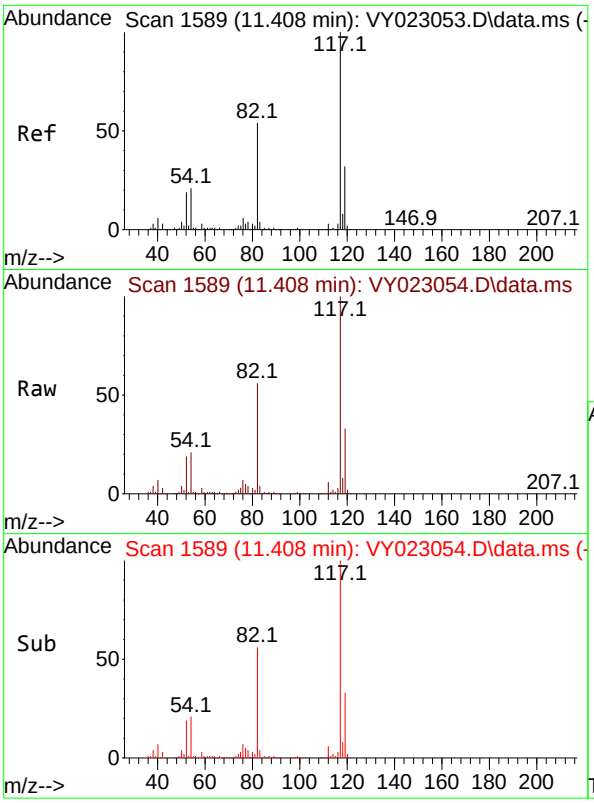


#62
4-Bromofluorobenzene
Concen: 106.147 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 95 Resp: 702583

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	171.6
176	84.8	0.0	167.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 78438

Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.4	65.0
119	33.0	25.6	38.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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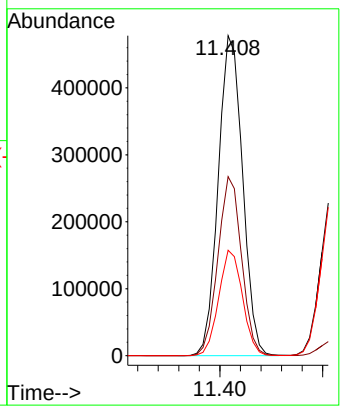
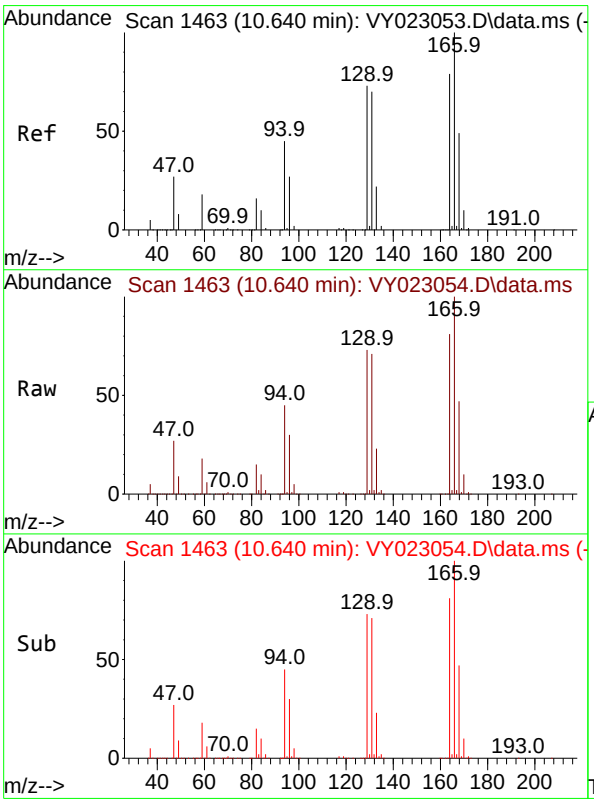
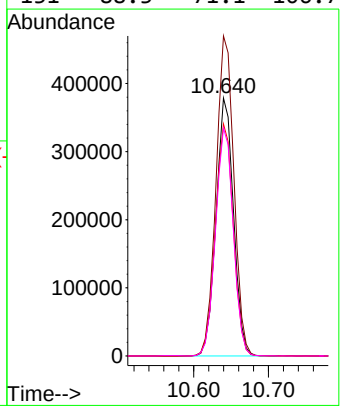


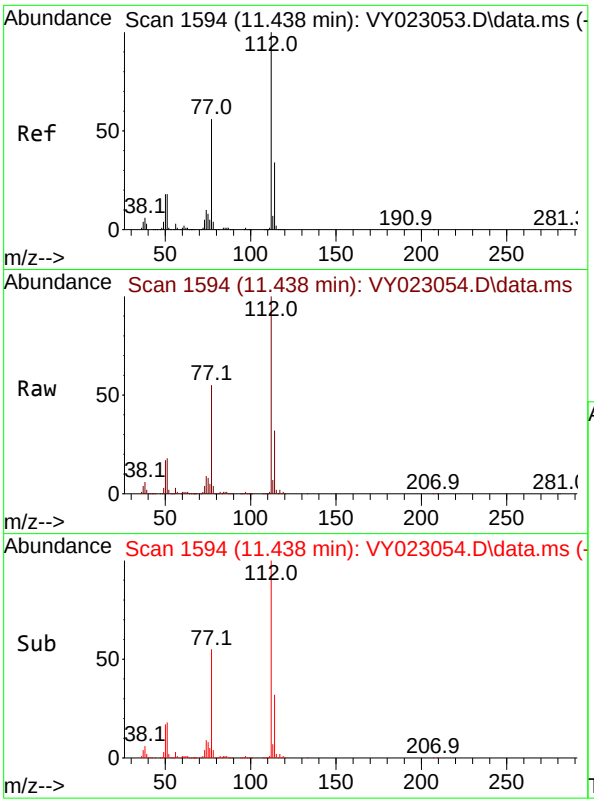


#64
Tetrachloroethene
Concen: 87.931 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:164 Resp: 615871

Ion	Ratio	Lower	Upper
164	100		
166	124.1	101.1	151.7
129	90.0	74.0	111.0
131	88.3	71.1	106.7

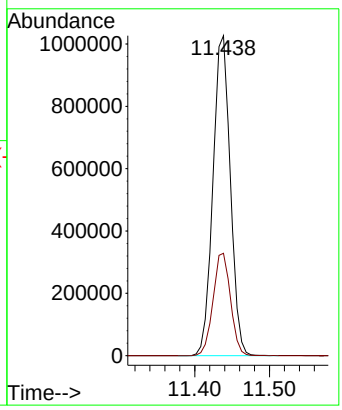




#65
Chlorobenzene
Concen: 98.004 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:112 Resp: 165815

Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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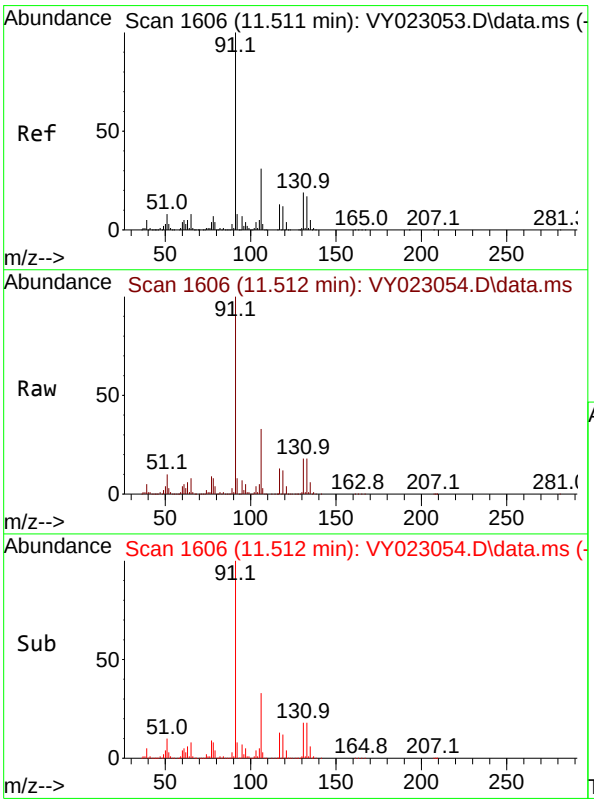
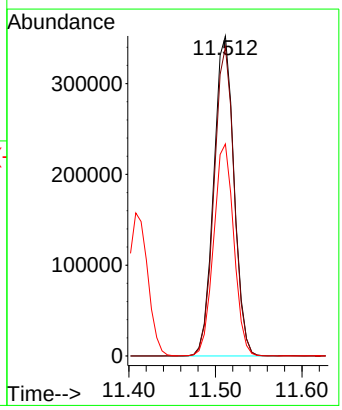
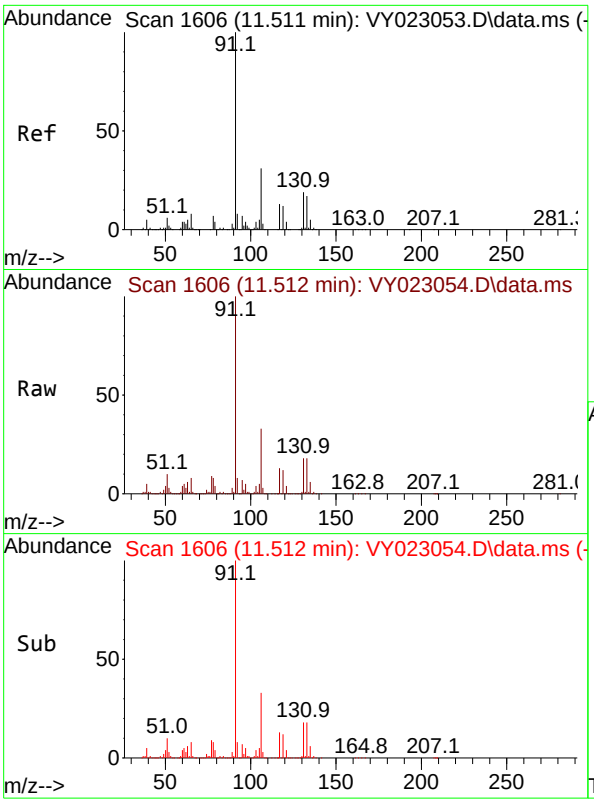


#66
1,1,1,2-Tetrachloroethane
Concen: 99.810 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:131 Resp: 573131

Ion	Ratio	Lower	Upper
131	100		
133	95.5	46.9	140.6
119	65.9	33.2	99.6





#67
Ethyl Benzene
Concen: 100.082 ug/l
RT: 11.512 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 291402(

Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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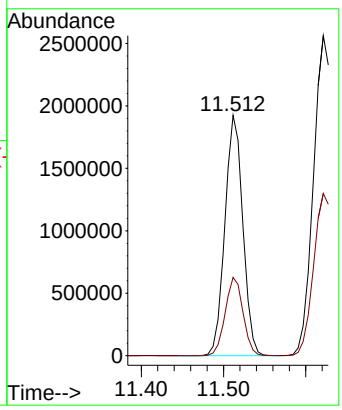
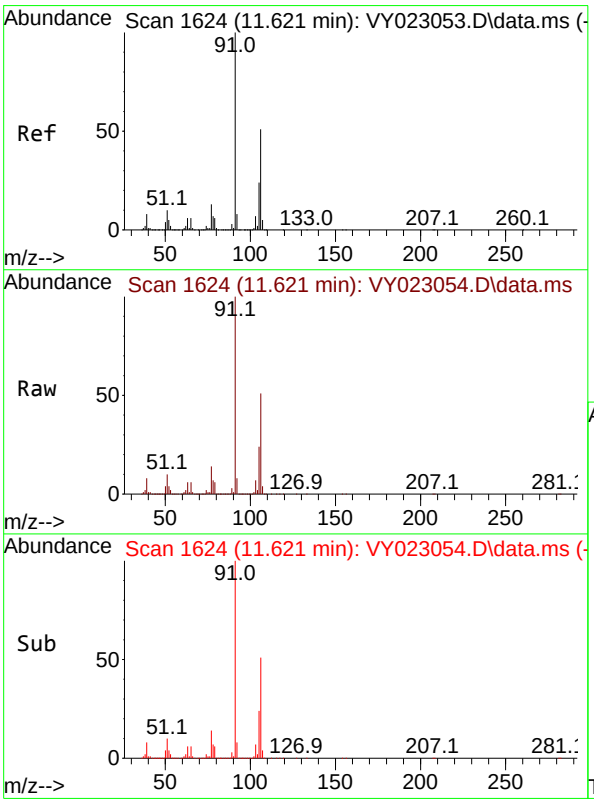
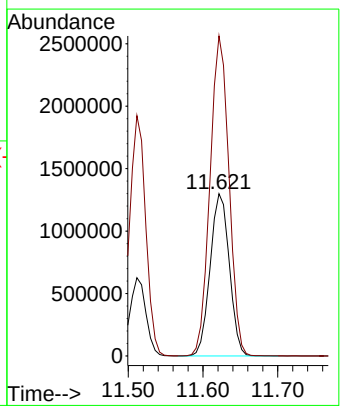


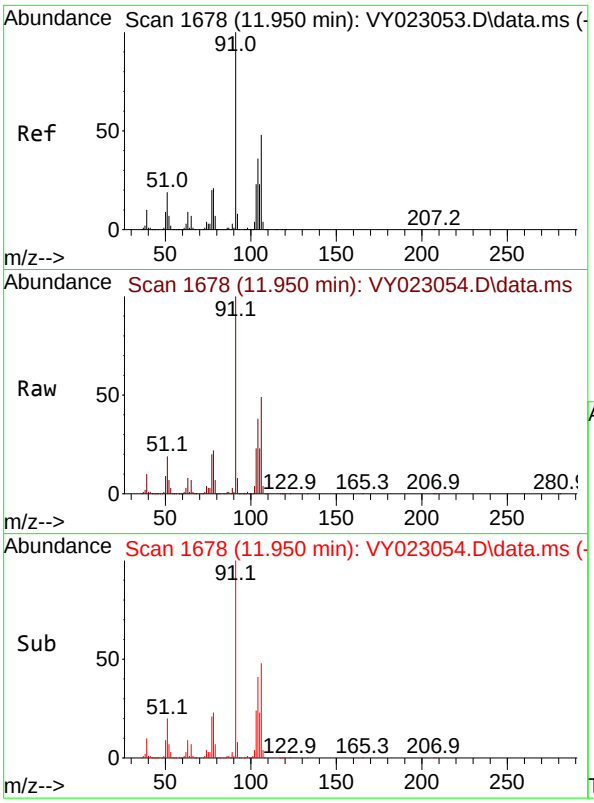


#68
m/p-Xylenes
Concen: 203.363 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 2312597

Ion	Ratio	Lower	Upper
106	100		
91	195.1	158.6	238.0

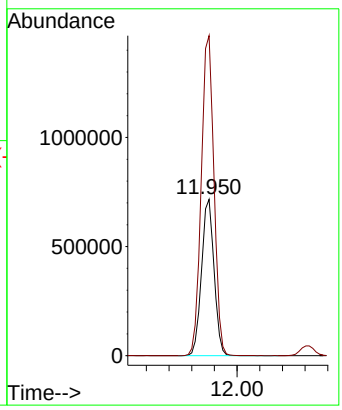




#69
o-Xylene
Concen: 103.373 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 110099

Ion	Ratio	Lower	Upper
106	100		
91	207.5	103.2	309.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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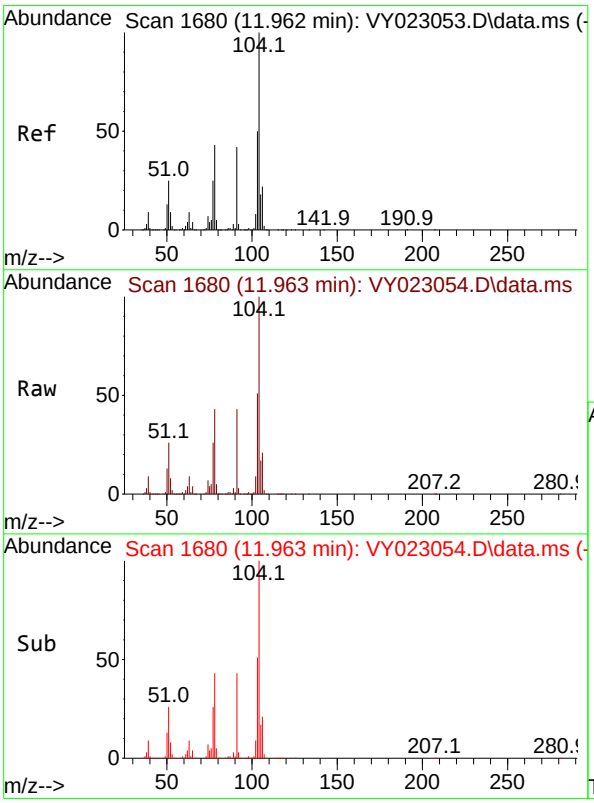
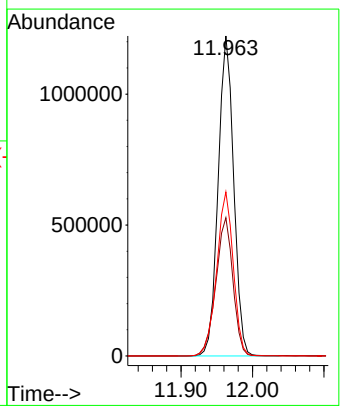
Supervised By :Semsettin Yesilyurt 08/14/2025

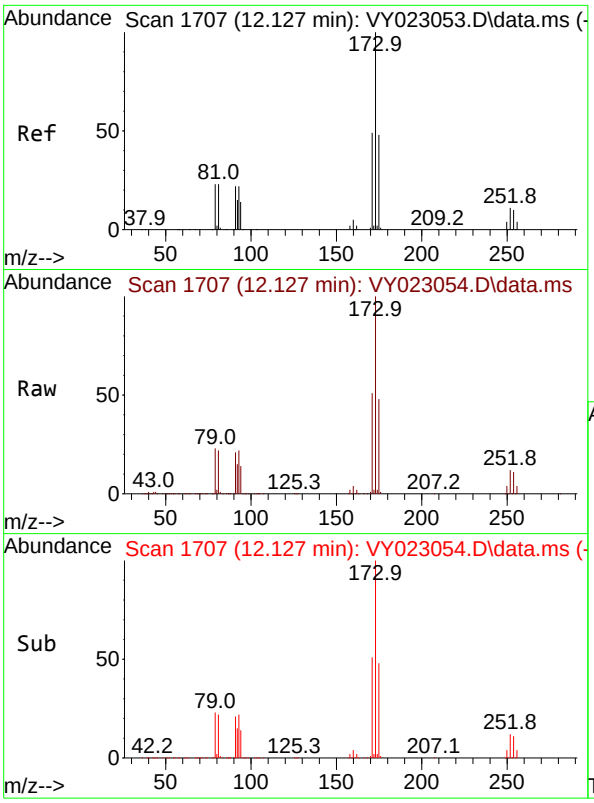


#70
Styrene
Concen: 105.953 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:104 Resp: 1845480

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.5	57.7
103	54.9	43.7	65.5

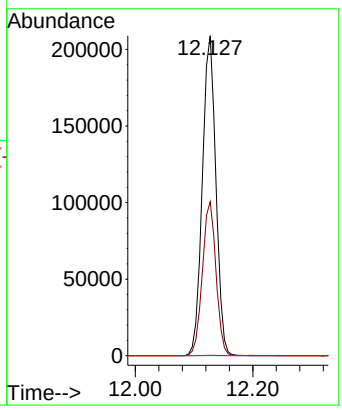




#71
Bromoform
Concen: 99.786 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:173 Resp: 33488

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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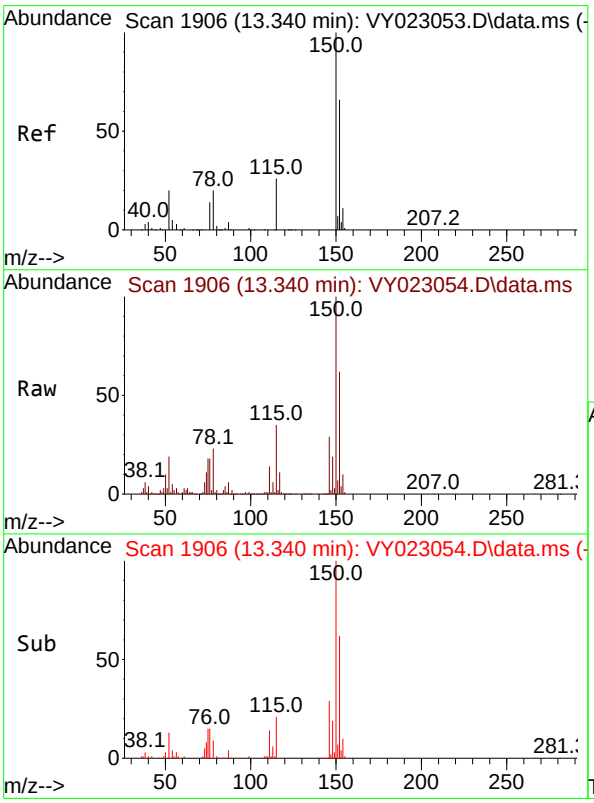
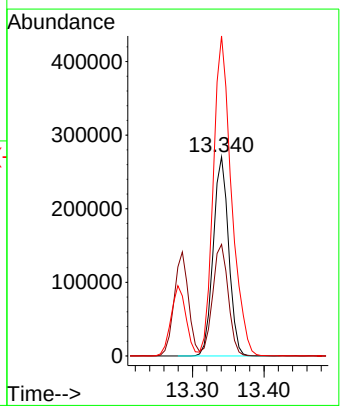
Supervised By :Semsettin Yesilyurt 08/14/2025

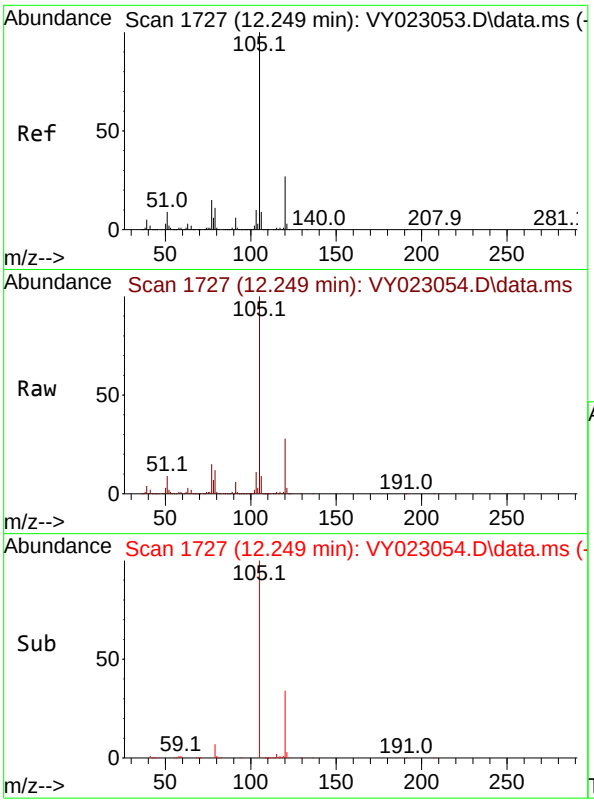


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:152 Resp: 404136

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	189.2	0.0	348.0

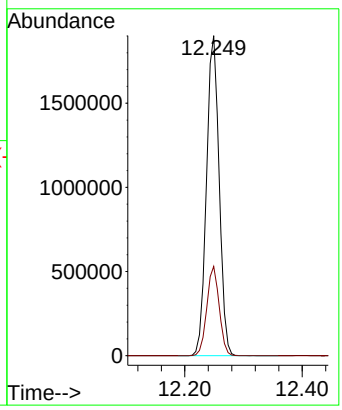




#73
Isopropylbenzene
Concen: 99.567 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 283999

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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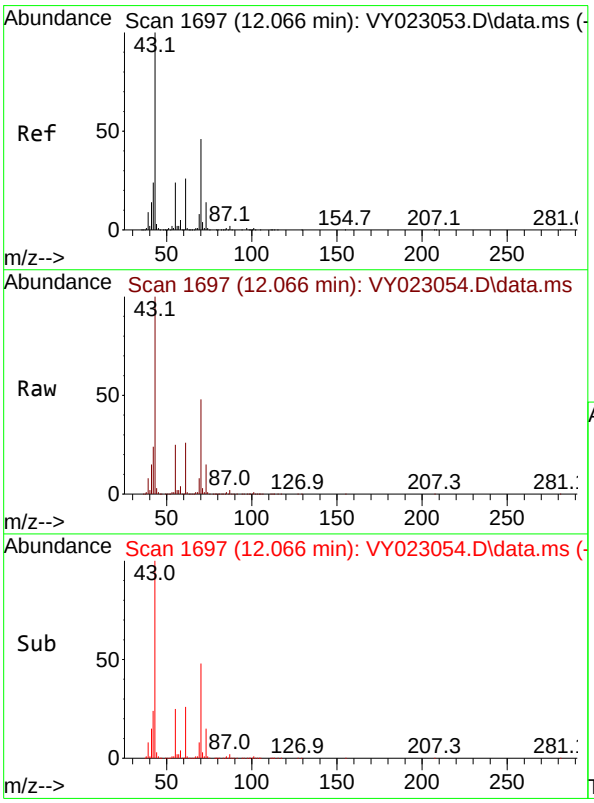
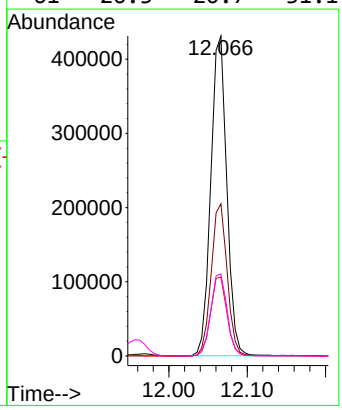
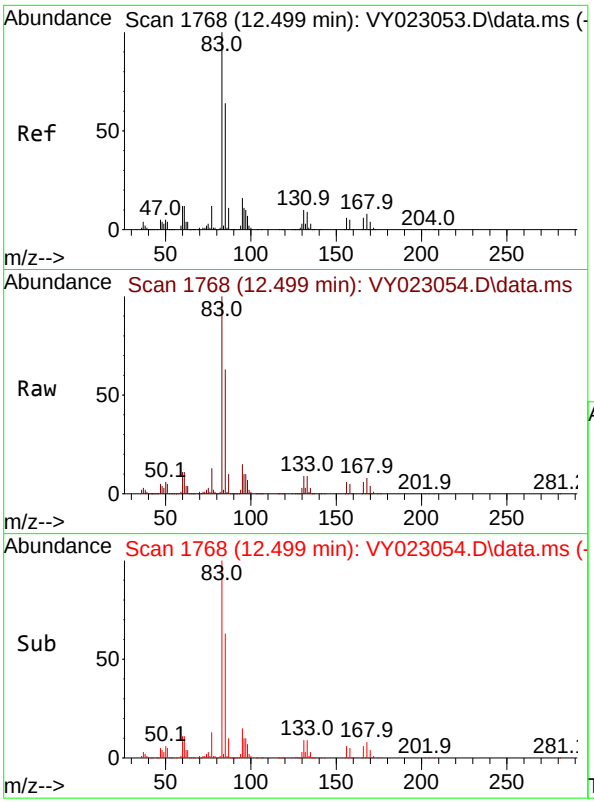


#74
N-amyl acetate
Concen: 100.955 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 610668

Ion	Ratio	Lower	Upper
43	100		
70	47.8	37.5	56.3
55	25.3	20.7	31.1
61	26.3	20.7	31.1

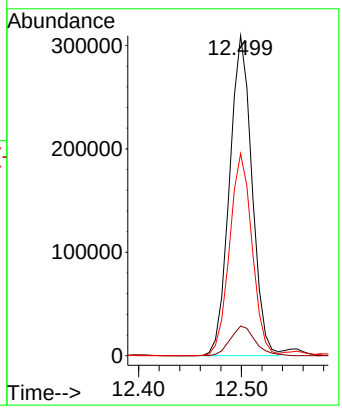




#75
1,1,2,2-Tetrachloroethane
Concen: 96.464 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 46981

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	63.3	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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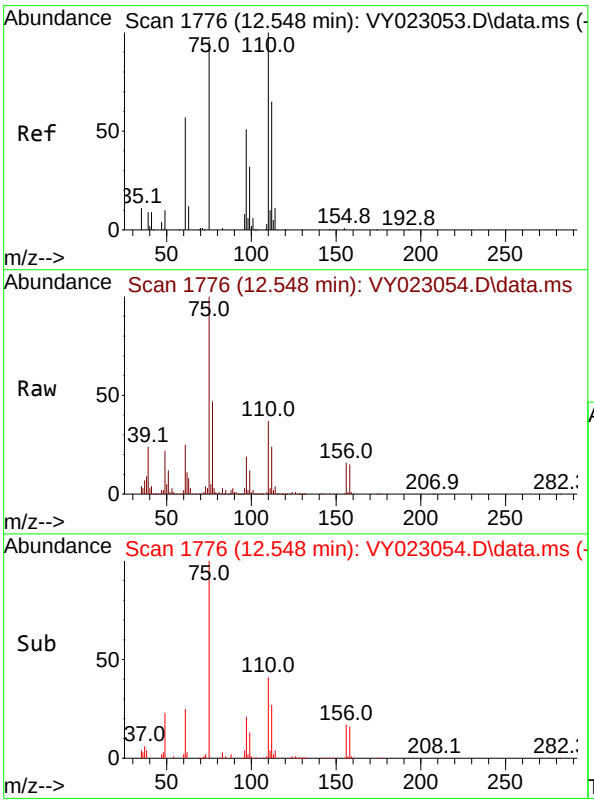
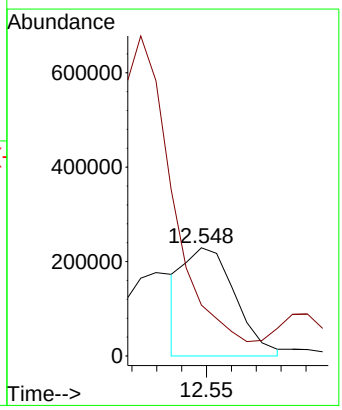
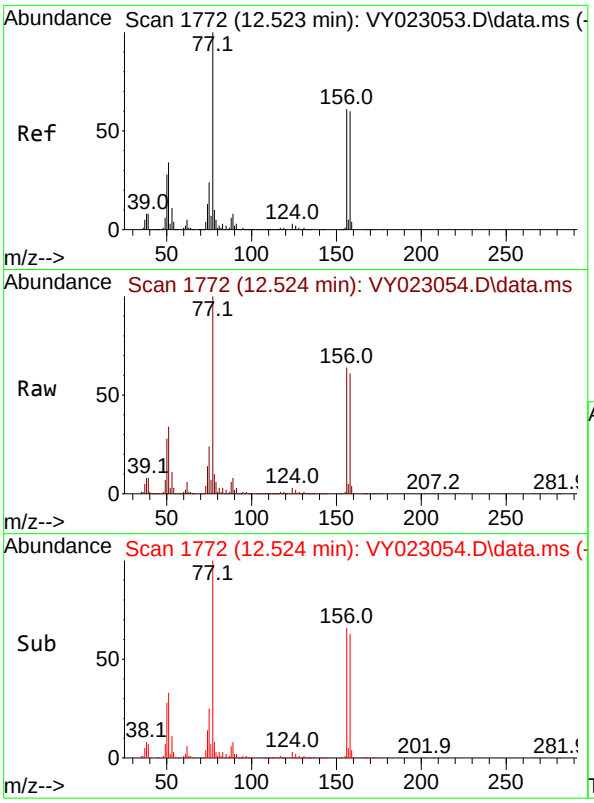


#76
1,2,3-Trichloropropane
Concen: 84.695 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 330554

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

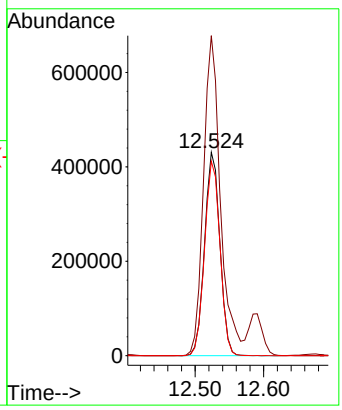




#77
Bromobenzene
Concen: 98.655 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:156 Resp: 67132

Ion	Ratio	Lower	Upper
156	100		
77	172.8	88.1	264.4
158	96.5	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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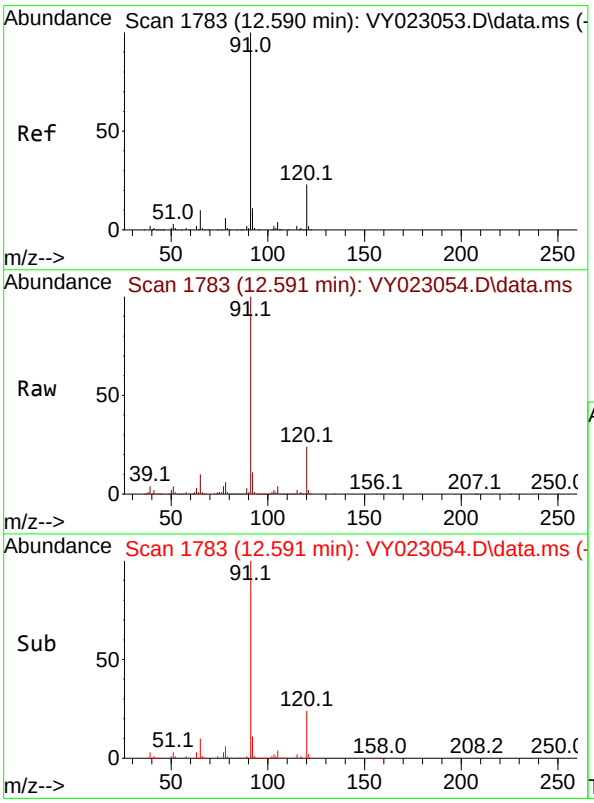
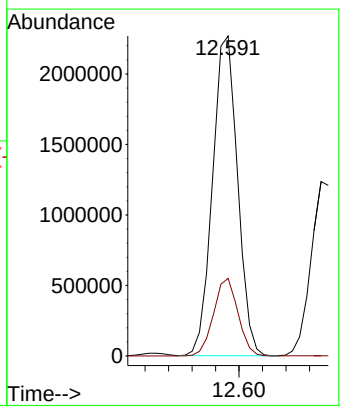
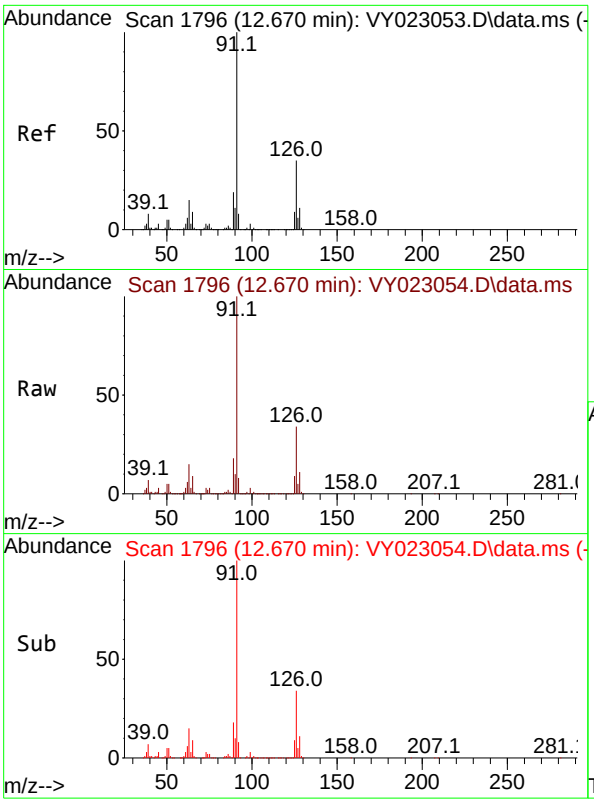


#78
n-propylbenzene
Concen: 98.963 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 3360679

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.5





#79
2-Chlorotoluene
Concen: 99.268 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 193146

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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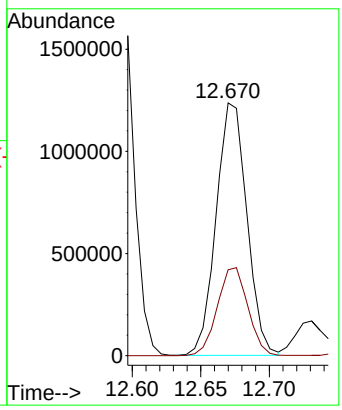
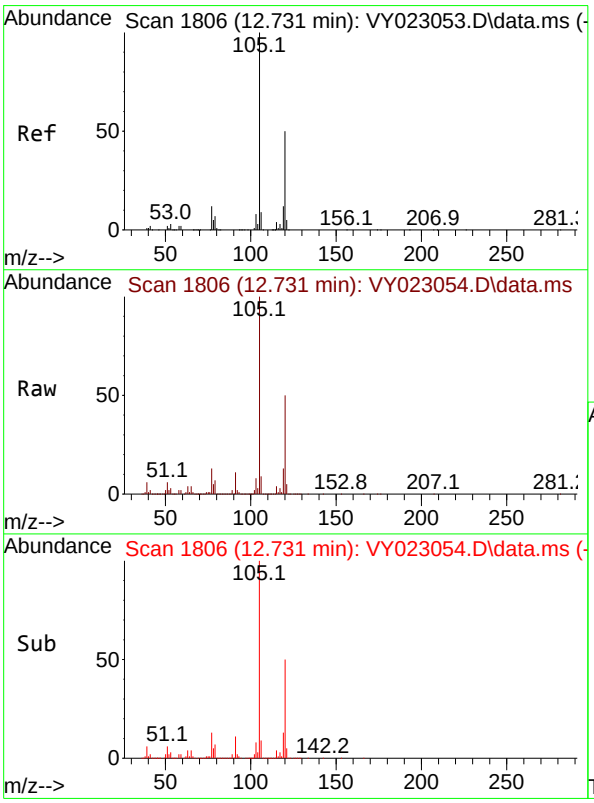
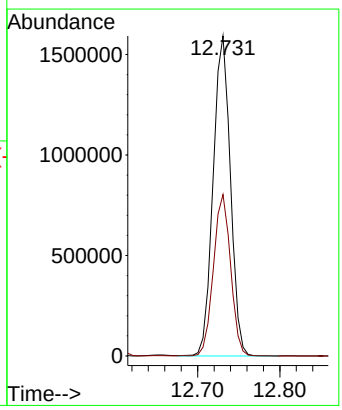


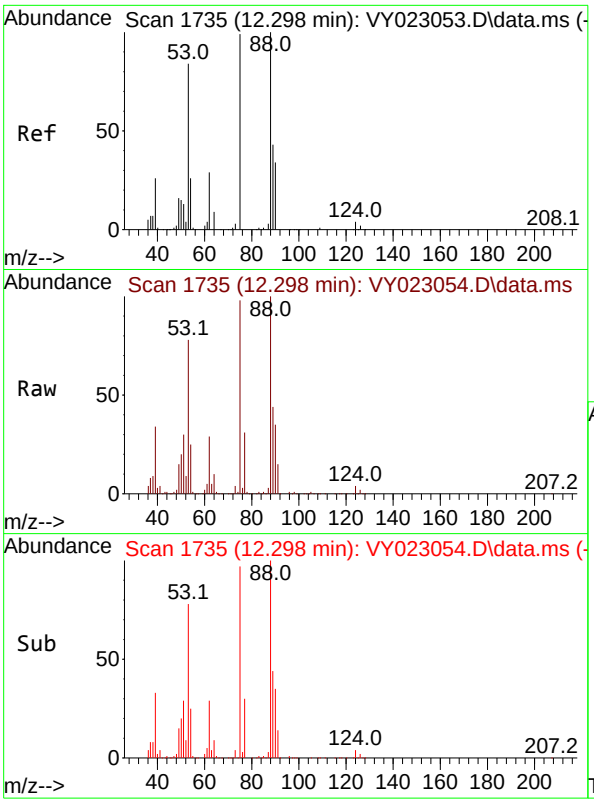


#80
1,3,5-Trimethylbenzene
Concen: 100.707 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2321527

Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 95.118 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 15326

Ion	Ratio	Lower	Upper
75	100		
53	88.4	70.8	106.2
89	47.0	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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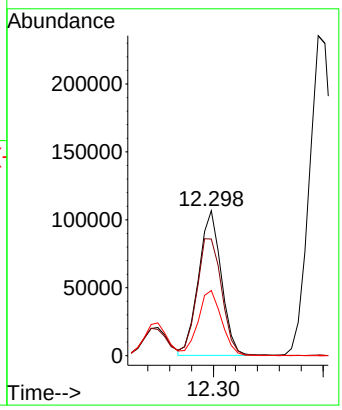
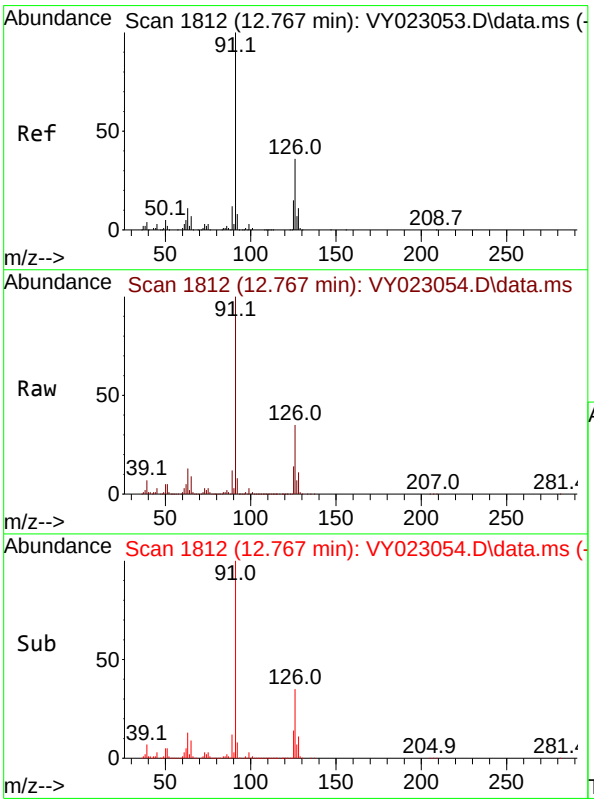
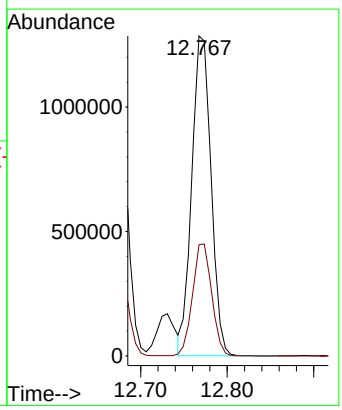


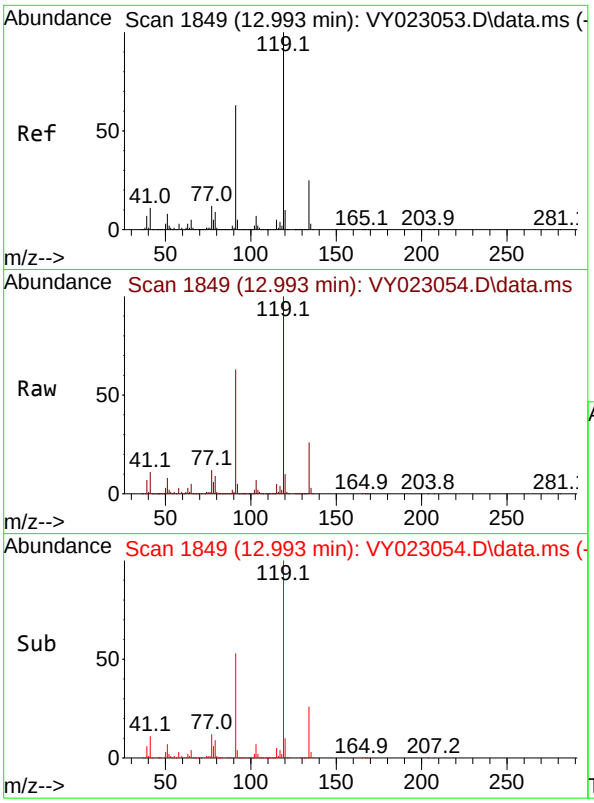


#82
4-Chlorotoluene
Concen: 98.519 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 1988544

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0





#83
tert-Butylbenzene
Concen: 102.102 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:119 Resp: 212578

Ion	Ratio	Lower	Upper
119	100		
91	61.6	31.6	94.8
134	26.2	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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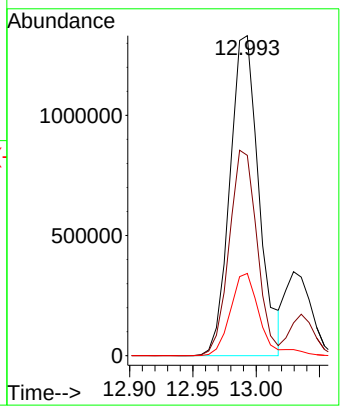
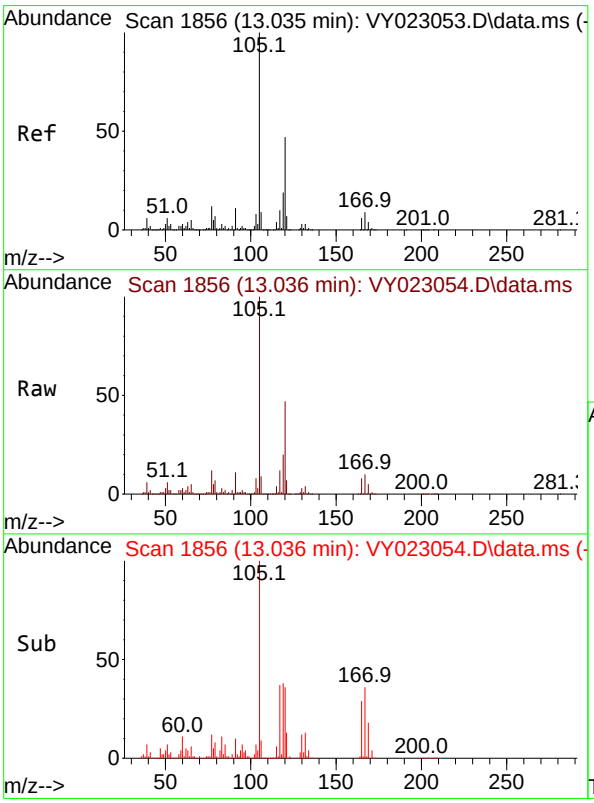
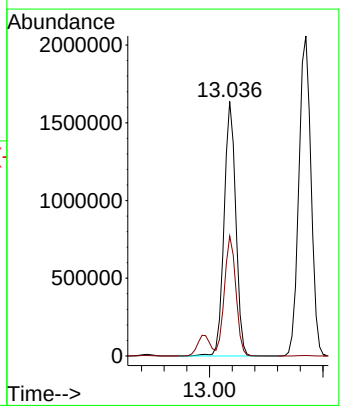


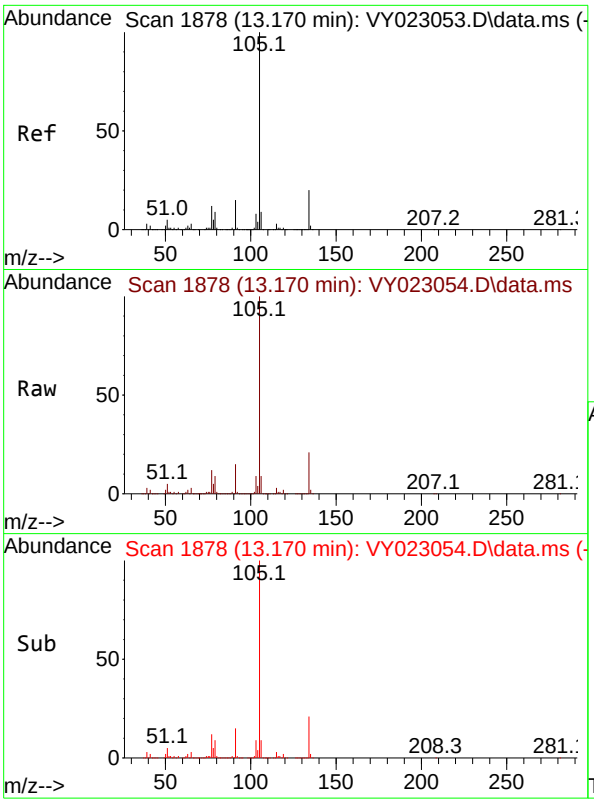


#84
1,2,4-Trimethylbenzene
Concen: 101.946 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2339432

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

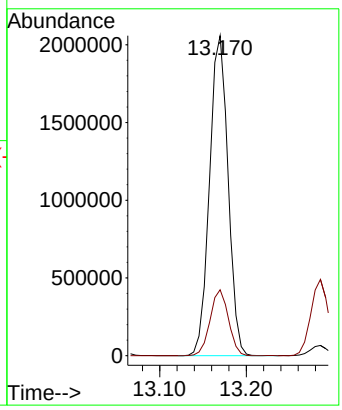




#85
sec-Butylbenzene
Concen: 99.932 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 305637

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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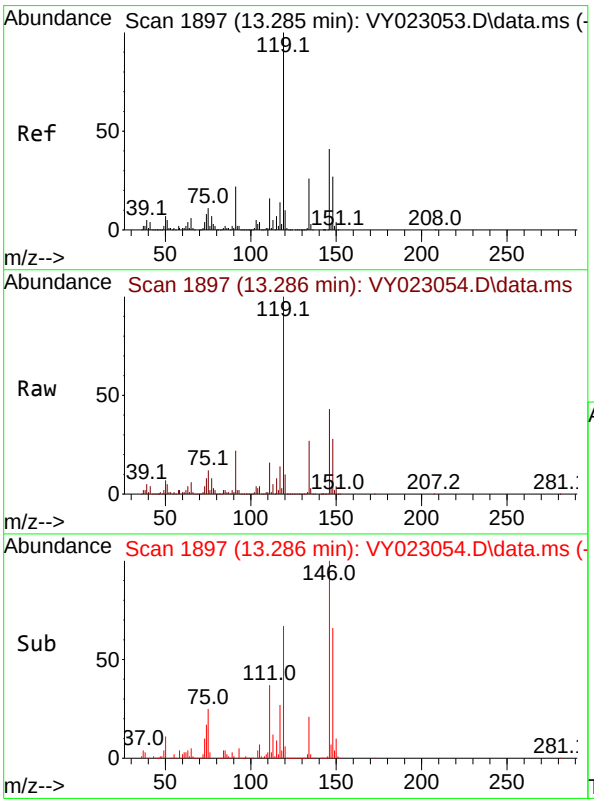
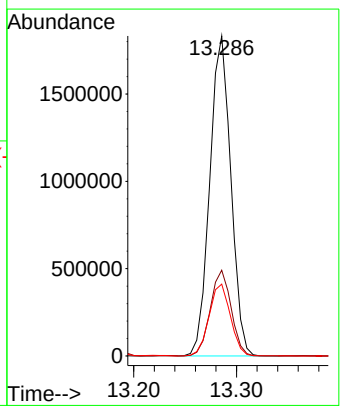
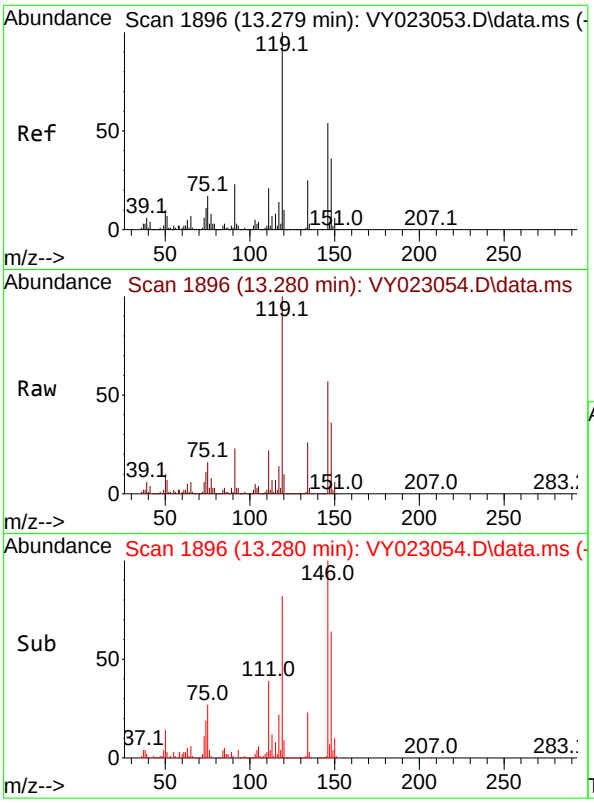


#86
p-Isopropyltoluene
Concen: 102.846 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:119 Resp: 2610936

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	22.7	11.3	33.8

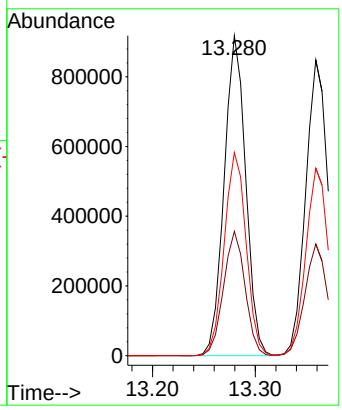




#87
1,3-Dichlorobenzene
Concen: 99.748 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 133854

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	64.5	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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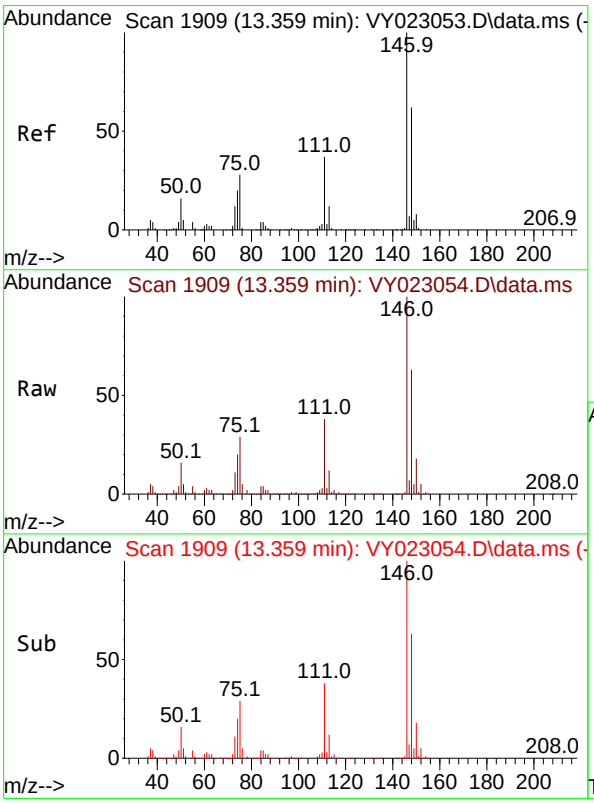
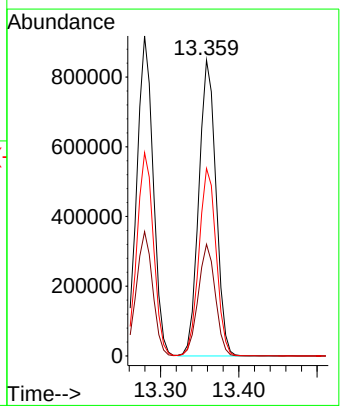
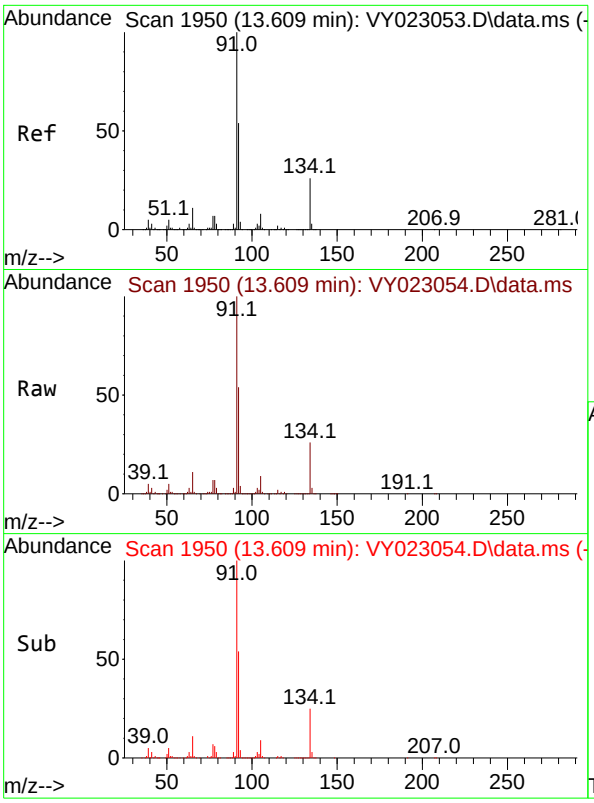


#88
1,4-Dichlorobenzene
Concen: 96.970 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 1290840

Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	63.7	31.6	94.7

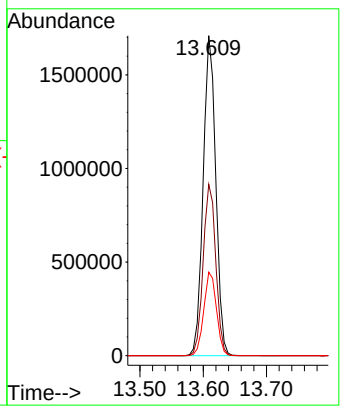




#89
n-Butylbenzene
Concen: 101.675 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 237070

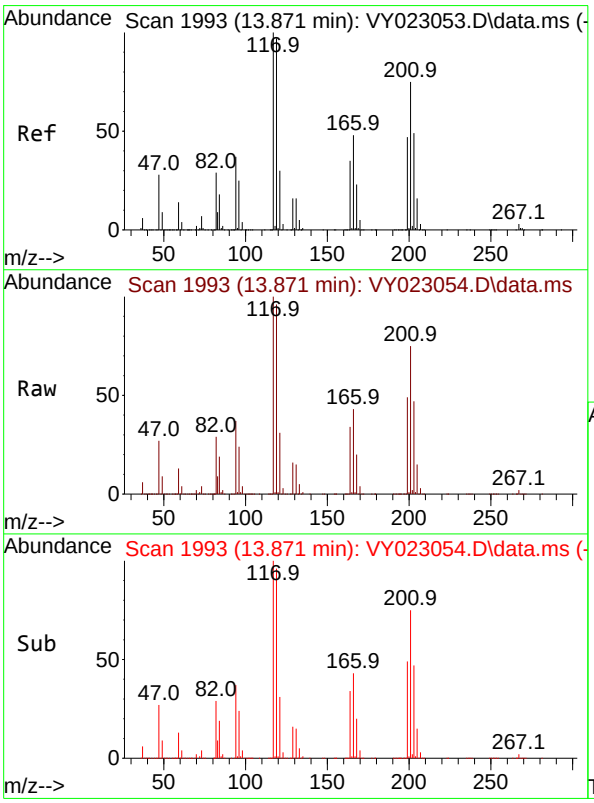
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.7
134	26.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

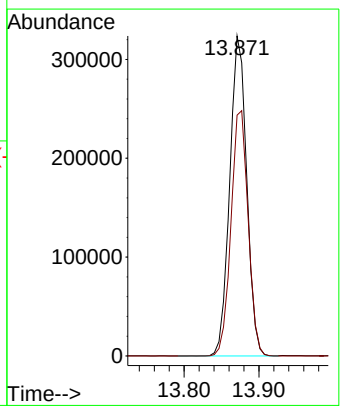
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

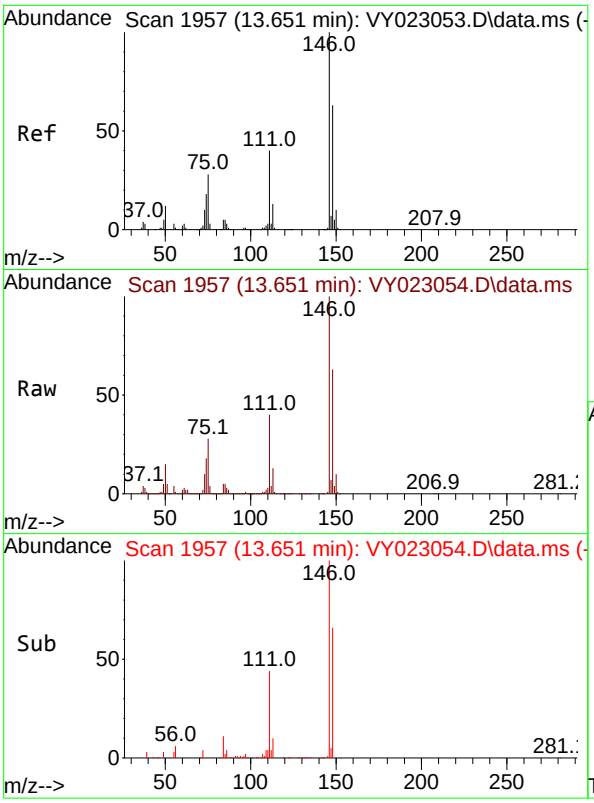


#90
Hexachloroethane
Concen: 98.308 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 510900

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1

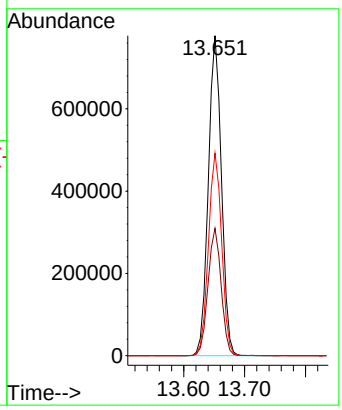




#91
1,2-Dichlorobenzene
Concen: 98.749 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 116215

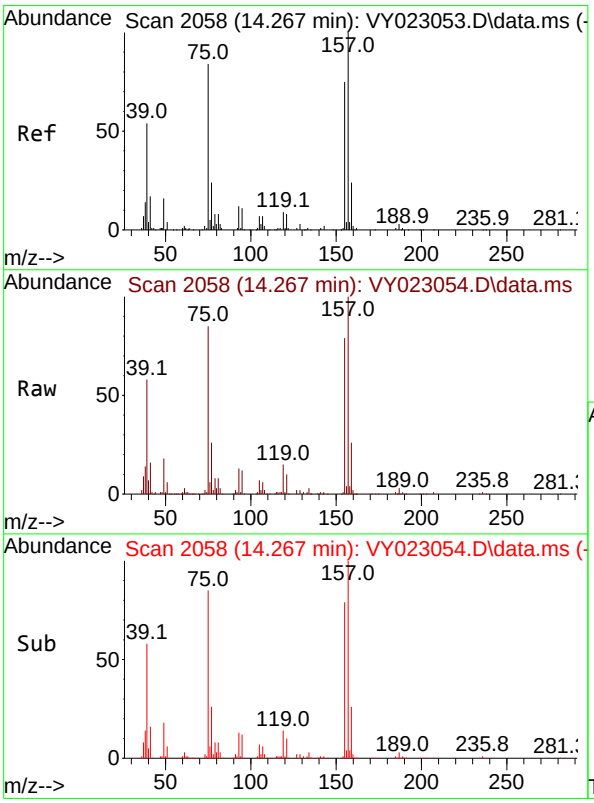
Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.9	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

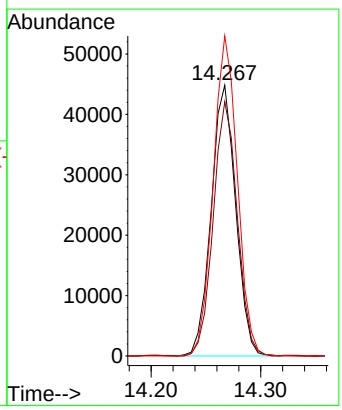
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

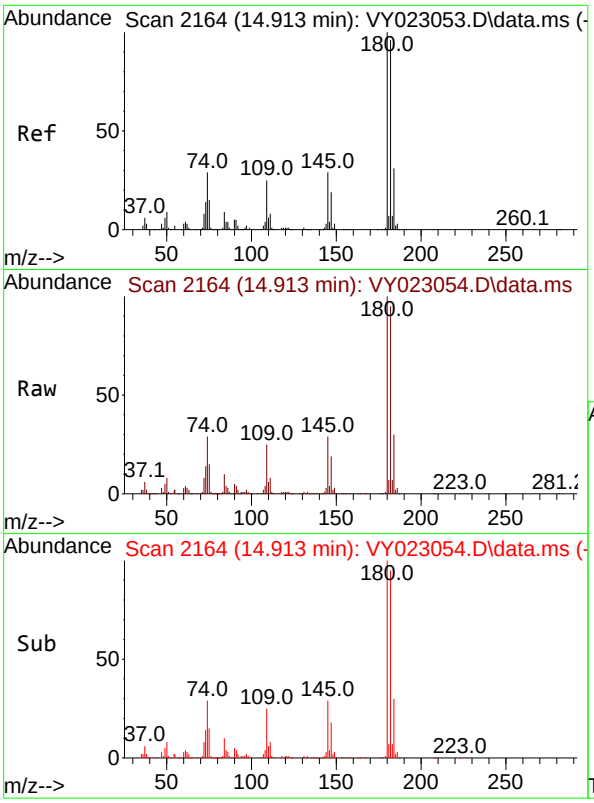


#92
1,2-Dibromo-3-Chloropropane
Concen: 91.965 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 69736

Ion	Ratio	Lower	Upper
75	100		
155	92.1	43.9	131.6
157	116.2	57.2	171.6

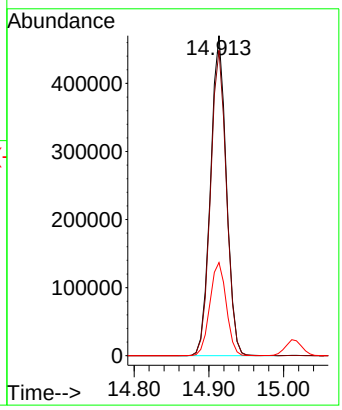




#93
1,2,4-Trichlorobenzene
Concen: 99.460 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:180 Resp: 69220

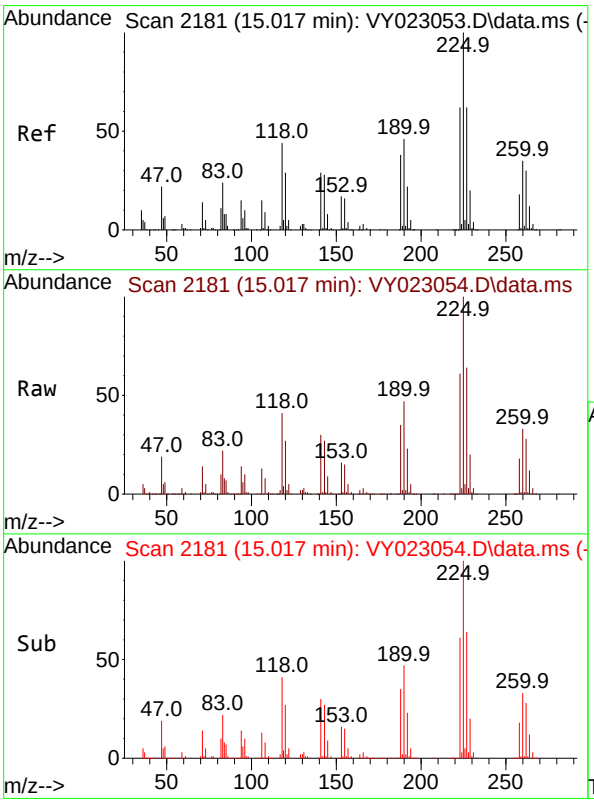
Ion	Ratio	Lower	Upper
180	100		
182	95.8	46.8	140.4
145	30.1	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

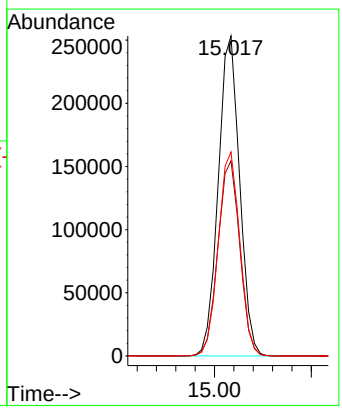
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

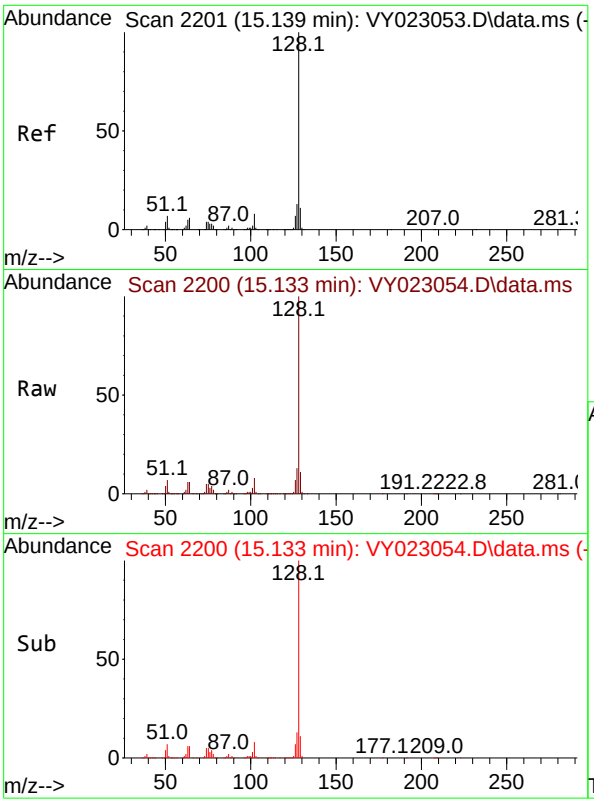


#94
Hexachlorobutadiene
Concen: 94.803 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:225 Resp: 387707

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.3	93.8
227	64.2	31.5	94.5

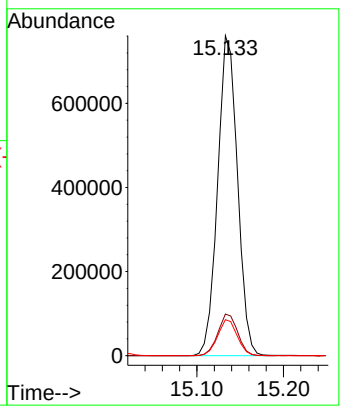




#95
Naphthalene
Concen: 102.147 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:128 Resp: 121222

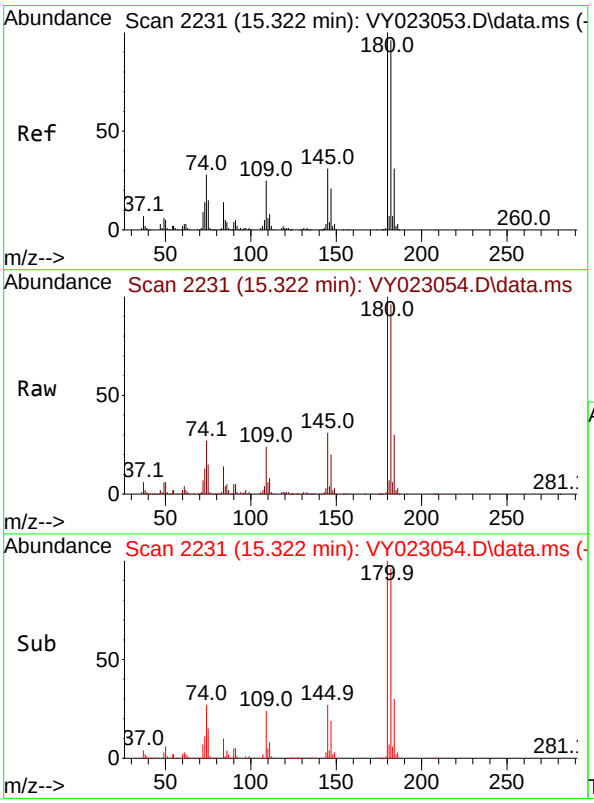
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.1	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

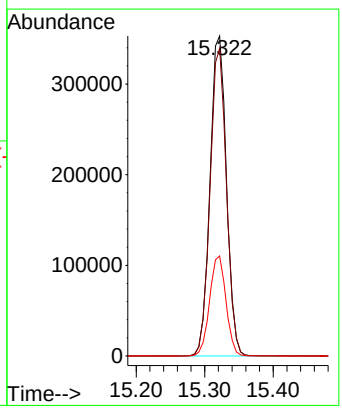
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 98.046 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:180 Resp: 587990

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.7
145	31.2	15.9	47.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	538712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	844092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	756365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	389949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	746936	145.480	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 290.960%#			
35) Dibromofluoromethane	7.628	113	771944	152.837	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 305.680%#			
50) Toluene-d8	10.103	98	3003834	152.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 304.480%#			
62) 4-Bromofluorobenzene	12.402	95	998318	157.326	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 314.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	571723	130.017	ug/l	98
3) Chloromethane	2.062	50	991215	139.173	ug/l	99
4) Vinyl Chloride	2.202	62	1238646	140.692	ug/l	99
5) Bromomethane	2.580	94	938717	142.770	ug/l	100
6) Chloroethane	2.720	64	834547	142.581	ug/l	100
7) Trichlorofluoromethane	3.043	101	1574213	147.051	ug/l	99
8) Diethyl Ether	3.446	74	426242	150.496	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.806	101	763053	144.479	ug/l	99
10) Methyl Iodide	3.995	142	909378	159.567	ug/l	100
11) Tert butyl alcohol	4.860	59	265243	753.967	ug/l	100
12) 1,1-Dichloroethene	3.781	96	768098	147.960	ug/l	95
13) Acrolein	3.647	56	374594	727.070	ug/l	98
14) Allyl chloride	4.372	41	1151194	150.707	ug/l	99
15) Acrylonitrile	5.049	53	883293	767.115	ug/l	99
16) Acetone	3.866	43	777658	699.133	ug/l	100
17) Carbon Disulfide	4.098	76	2426564	143.357	ug/l	99
18) Methyl Acetate	4.379	43	500151	151.100	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	2113920	157.144	ug/l	99
20) Methylene Chloride	4.604	84	846955	152.064	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	889517	152.474	ug/l	97
22) Diisopropyl ether	6.012	45	2594499	156.307	ug/l	99
23) Vinyl Acetate	5.951	43	7267824	791.851	ug/l	99
24) 1,1-Dichloroethane	5.909	63	1527663	150.534	ug/l	99
25) 2-Butanone	6.890	43	1144112	756.289	ug/l	97
26) 2,2-Dichloropropane	6.878	77	1293043	147.663	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	1047717	155.348	ug/l	98
28) Bromochloromethane	7.238	49	599841	148.984	ug/l	98
29) Tetrahydrofuran	7.256	42	734408	783.186	ug/l	99
30) Chloroform	7.415	83	1585686	151.505	ug/l	95
31) Cyclohexane	7.695	56	1354021	141.586	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	1396470	150.372	ug/l	100
36) 1,1-Dichloropropene	7.829	75	1132306	150.850	ug/l	99
37) Ethyl Acetate	6.982	43	494371	156.788	ug/l	99
38) Carbon Tetrachloride	7.811	117	1226800	150.478	ug/l	96
39) Methylcyclohexane	9.103	83	1556004	157.417	ug/l	98
40) Benzene	8.073	78	3533174	152.720	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	261721	143.669	ug/l		90
42) 1,2-Dichloroethane	8.152	62	909030	151.078	ug/l		100
43) Isopropyl Acetate	8.195	43	1029854	161.596	ug/l		98
44) Trichloroethene	8.860	130	909510	152.126	ug/l		94
45) 1,2-Dichloropropane	9.134	63	822035	154.426	ug/l		99
46) Dibromomethane	9.225	93	480162	157.156	ug/l		100
47) Bromodichloromethane	9.420	83	1217658	154.884	ug/l		99
48) Methyl methacrylate	9.213	41	497527	163.144	ug/l		97
49) 1,4-Dioxane	9.225	88	117513	3280.235	ug/l		98
51) 4-Methyl-2-Pentanone	9.993	43	2677587	814.509	ug/l		99
52) Toluene	10.164	92	2332797	158.762	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	1162952	163.355	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	1366797	162.359	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	642236	157.090	ug/l		98
56) Ethyl methacrylate	10.432	69	908662	173.693	ug/l		100
57) 1,3-Dichloropropane	10.713	76	1087297	156.818	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	2167815	878.488	ug/l		99
59) 2-Hexanone	10.756	43	1848093	825.606	ug/l		100
60) Dibromochloromethane	10.908	129	860181	159.454	ug/l		99
61) 1,2-Dibromoethane	11.012	107	613069	159.546	ug/l		99
64) Tetrachloroethene	10.640	164	990664	146.682	ug/l		98
65) Chlorobenzene	11.438	112	2520874	154.514	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	871003	157.304	ug/l		99
67) Ethyl Benzene	11.511	91	4438665	158.093	ug/l		98
68) m/p-Xylenes	11.621	106	3511726	320.251	ug/l		96
69) o-Xylene	11.950	106	1683720	163.941	ug/l		100
70) Styrene	11.963	104	2846443	169.475	ug/l		99
71) Bromoform	12.127	173	523541	161.778	ug/l	#	98
73) Isopropylbenzene	12.249	105	4269945	155.145	ug/l		99
74) N-amyl acetate	12.066	43	982090	168.265	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	717524	152.686	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	519276m	137.890	ug/l		
77) Bromobenzene	12.523	156	1021449	155.568	ug/l		99
78) n-propylbenzene	12.591	91	5048012	154.058	ug/l		99
79) 2-Chlorotoluene	12.676	91	2878647	153.331	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	3469329	155.973	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	245958	158.203	ug/l		97
82) 4-Chlorotoluene	12.773	91	2981042	153.063	ug/l		99
83) tert-Butylbenzene	12.993	119	3161475	157.371	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	3501626	158.143	ug/l		100
85) sec-Butylbenzene	13.170	105	4541629	153.897	ug/l		99
86) p-Isopropyltoluene	13.286	119	3918969	159.987	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	2049060	158.251	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	1941716	151.172	ug/l		98
89) n-Butylbenzene	13.609	91	3578272	159.048	ug/l		100
90) Hexachloroethane	13.871	117	772603	154.073	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	1754100	154.469	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	114505	156.498	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	1117401	166.397	ug/l		98
94) Hexachlorobutadiene	15.017	225	589351	149.352	ug/l		99
95) Naphthalene	15.139	128	2094983	182.954	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	975366	168.557	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

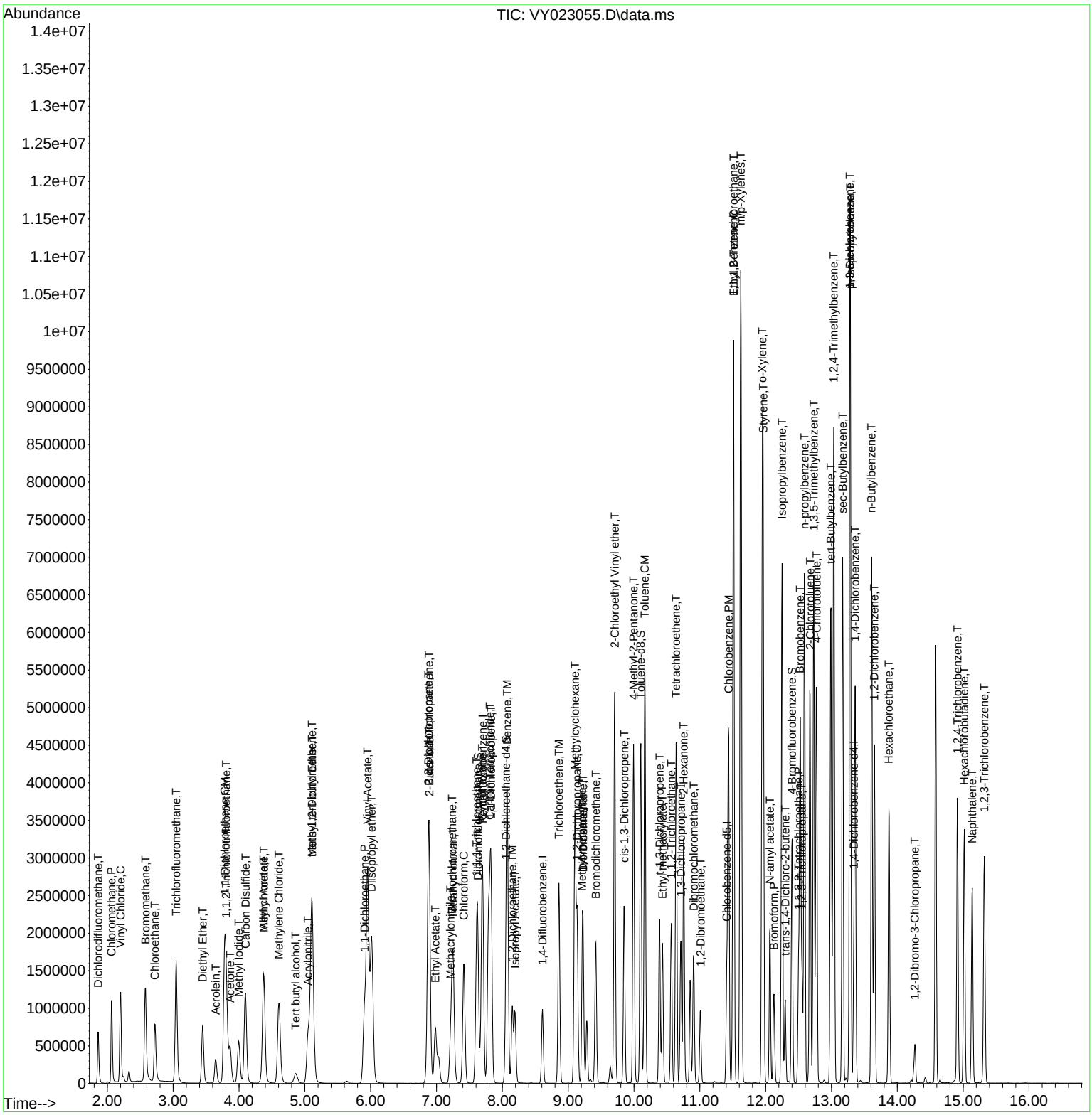
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

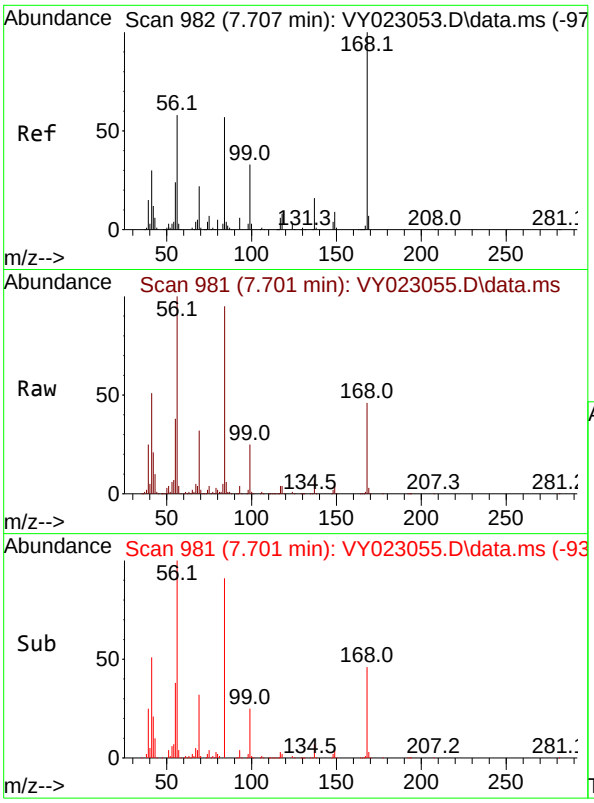
Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

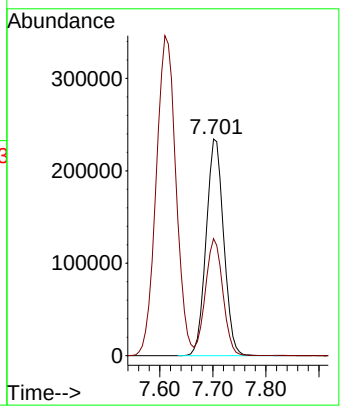




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:168 Resp: 53871

Ion	Ratio	Lower	Upper
168	100		
99	53.8	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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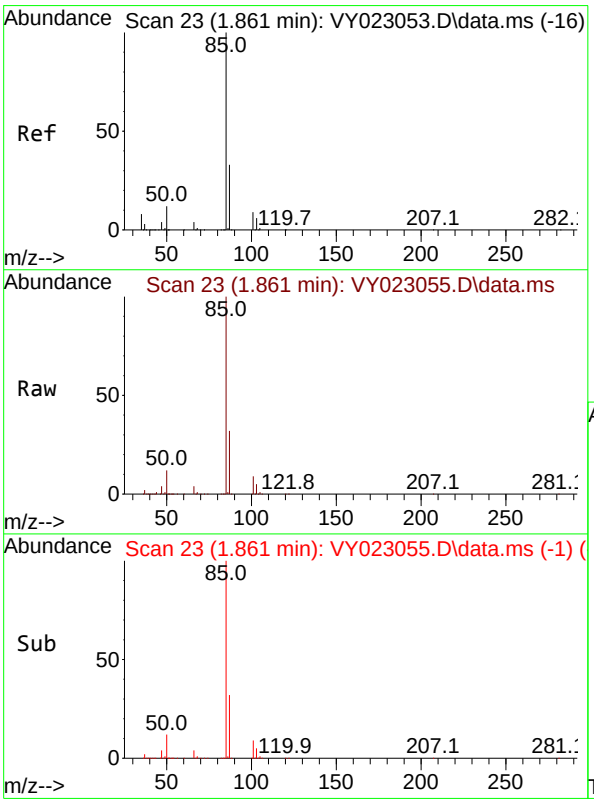
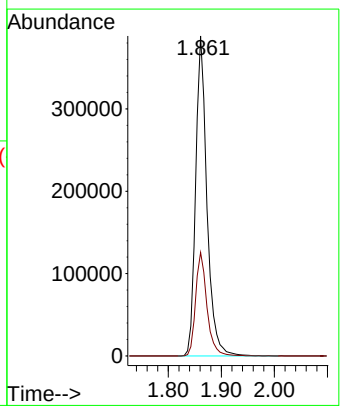
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

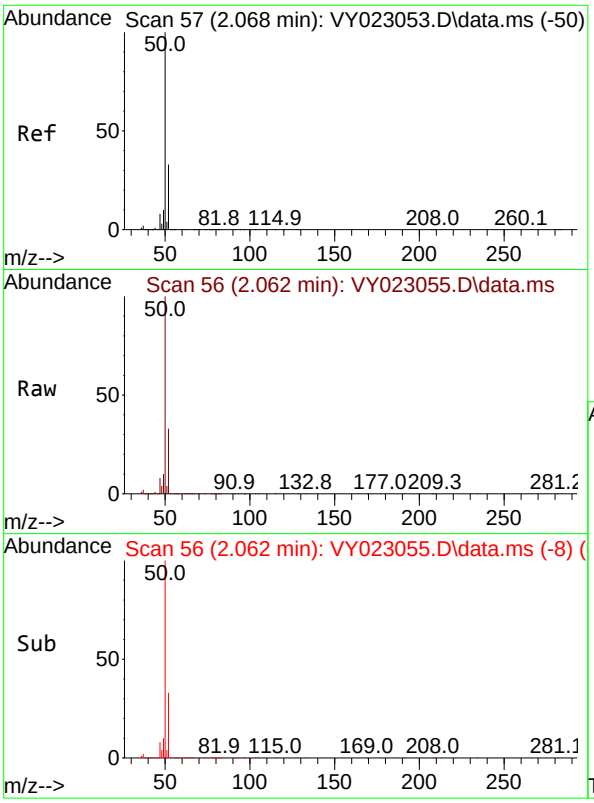


#2
Dichlorodifluoromethane
Concen: 130.017 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 85 Resp: 571723

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

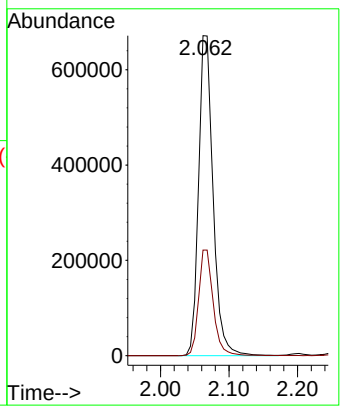




#3
Chloromethane
Concen: 139.173 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 50 Resp: 99121

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1



Instrument :
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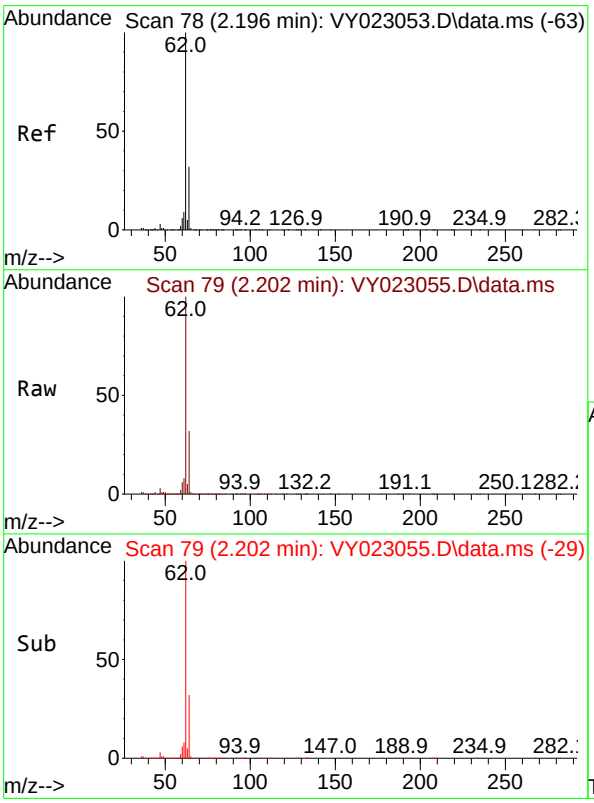
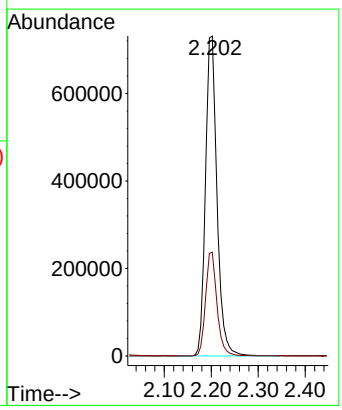
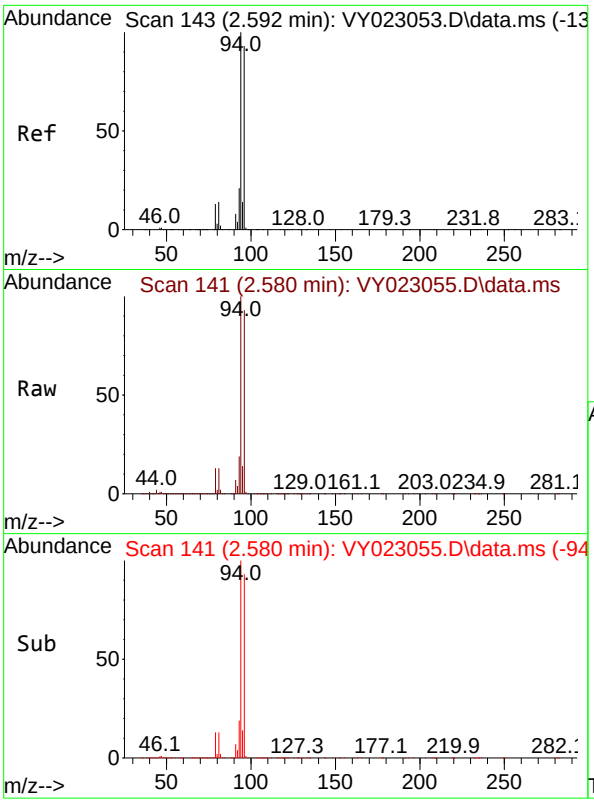


#4
Vinyl Chloride
Concen: 140.692 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 1238646

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0

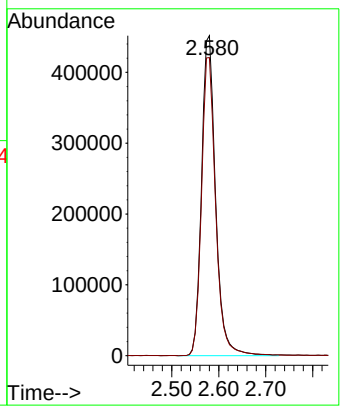




#5
Bromomethane
Concen: 142.770 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 94 Resp: 93871

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	112.0



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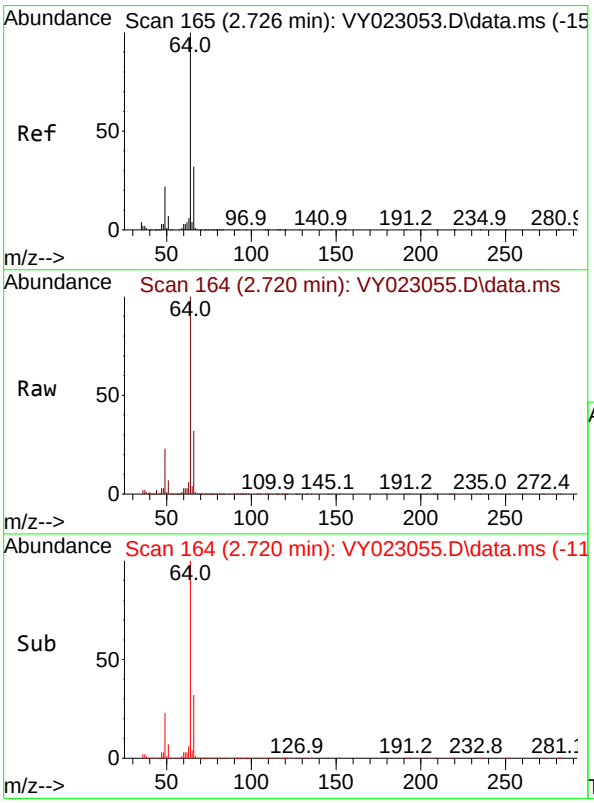
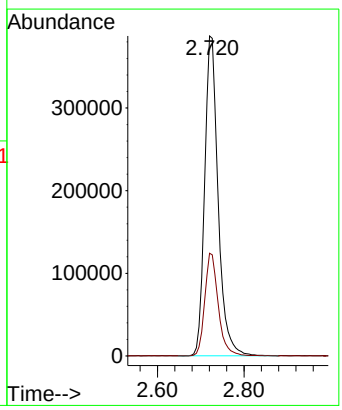
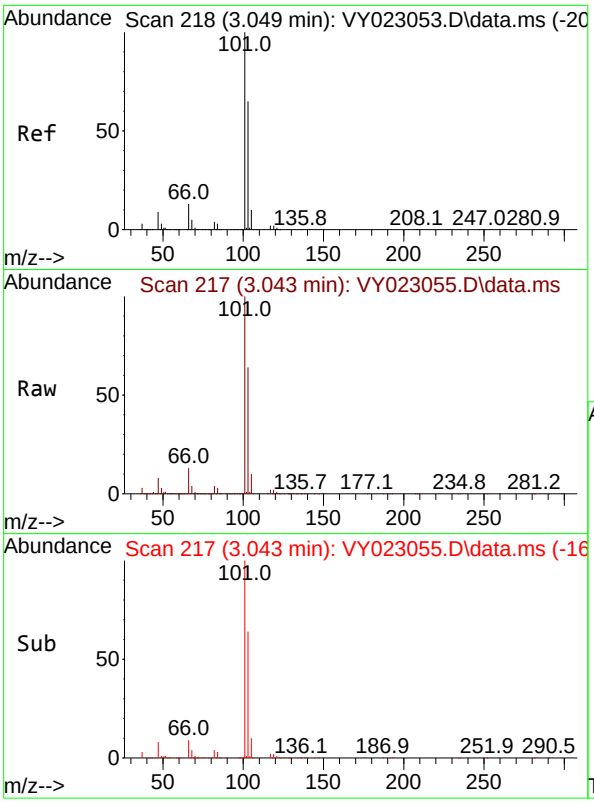


#6
Chloroethane
Concen: 142.581 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 64 Resp: 834547

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6





#7
Trichlorofluoromethane
Concen: 147.051 ug/l
RT: 3.043 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:101 Resp: 157421

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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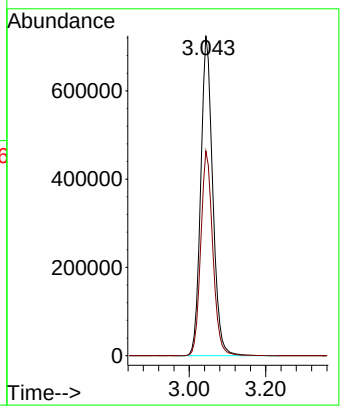
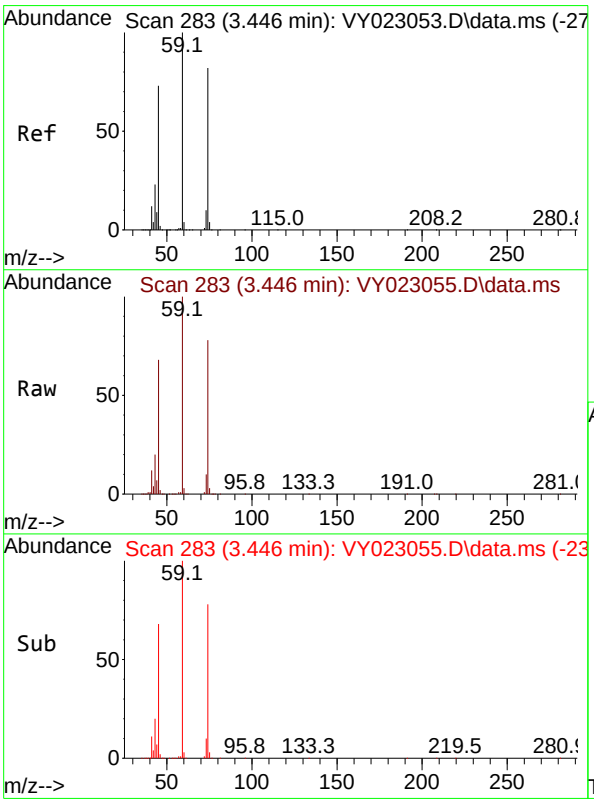
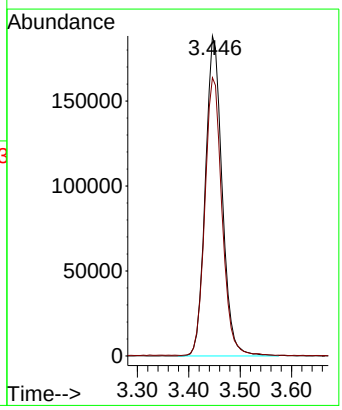


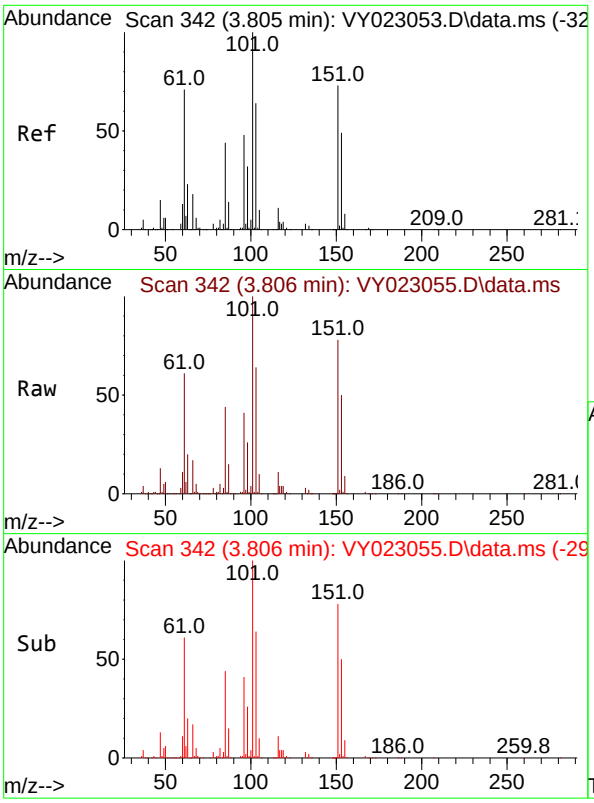


#8
Diethyl Ether
Concen: 150.496 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 74 Resp: 426242

Ion	Ratio	Lower	Upper
74	100		
45	88.9	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.479 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:101 Resp: 76305

Ion	Ratio	Lower	Upper
101	100		
85	44.7	36.3	54.5
151	77.4	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
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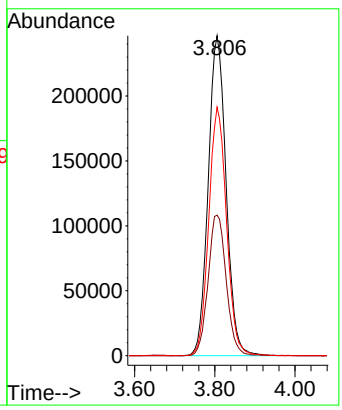
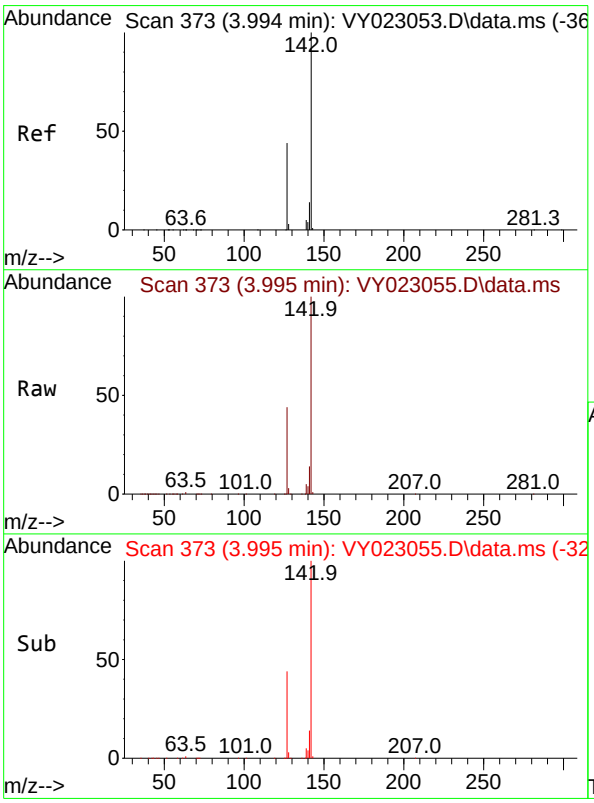
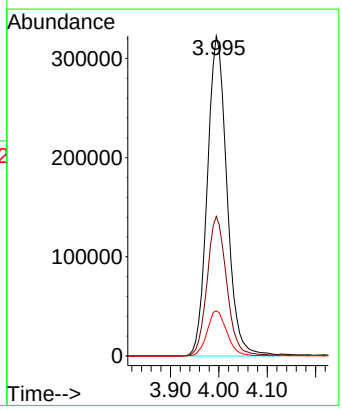


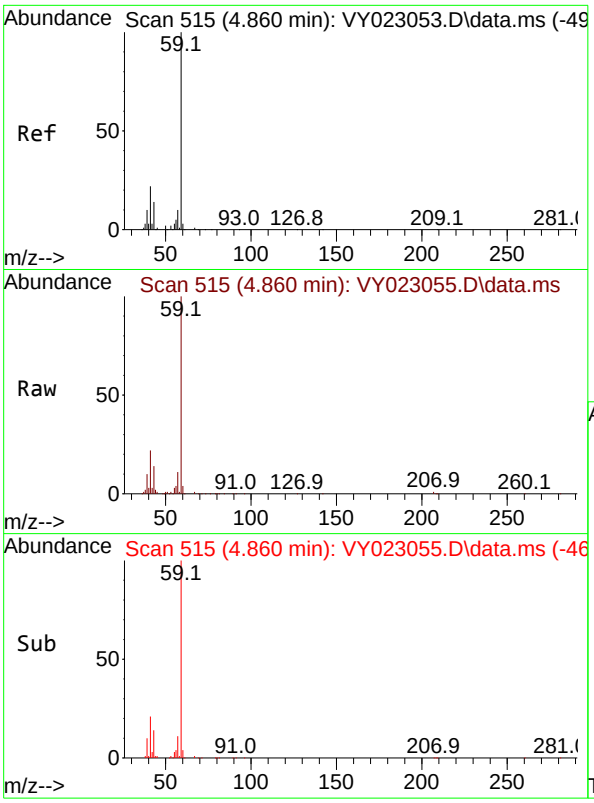


#10
Methyl Iodide
Concen: 159.567 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:142 Resp: 909378

Ion	Ratio	Lower	Upper
142	100		
127	43.7	34.9	52.3
141	14.2	11.3	16.9

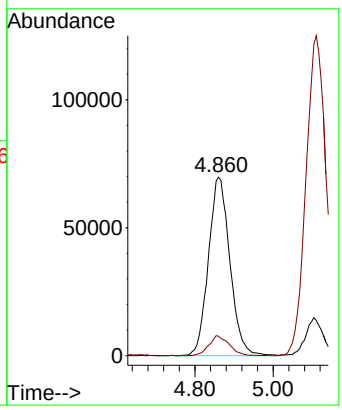




#11
Tert butyl alcohol
Concen: 753.967 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 59 Resp: 26524

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0



Instrument :
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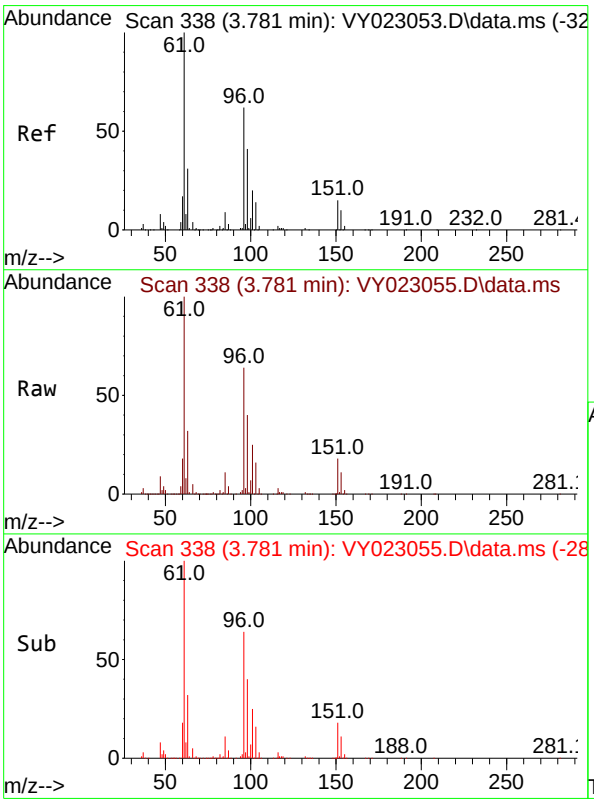
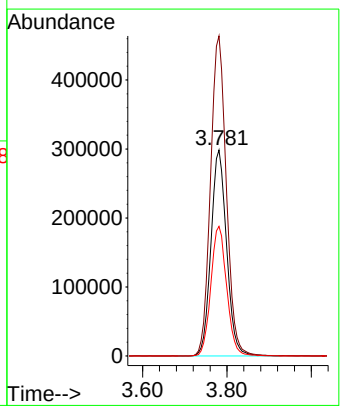
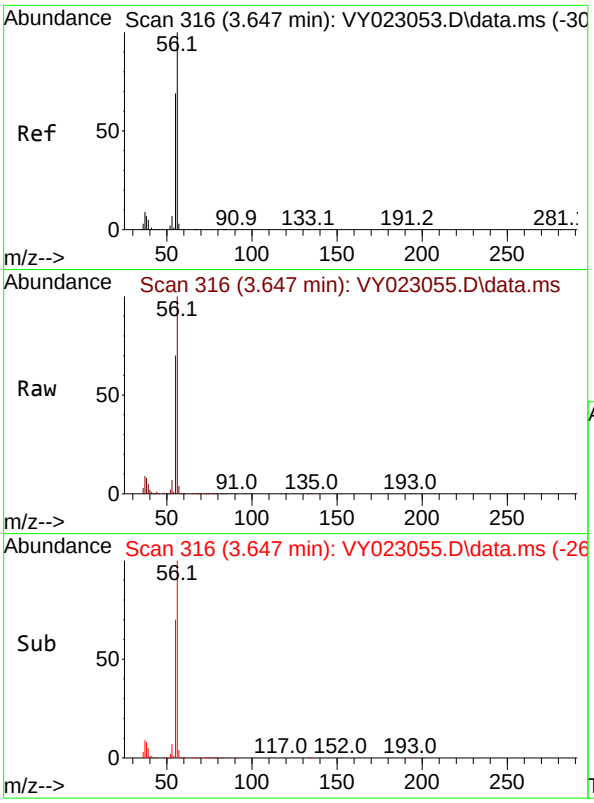


#12
1,1-Dichloroethene
Concen: 147.960 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 768098

Ion	Ratio	Lower	Upper
96	100		
61	155.4	129.4	194.2
98	62.9	52.8	79.2

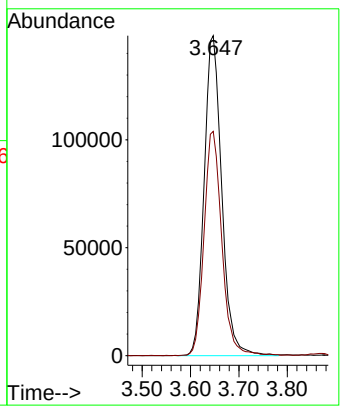




#13
Acrolein
Concen: 727.070 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 56 Resp: 37459

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8



Instrument :
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ClientSampleId :
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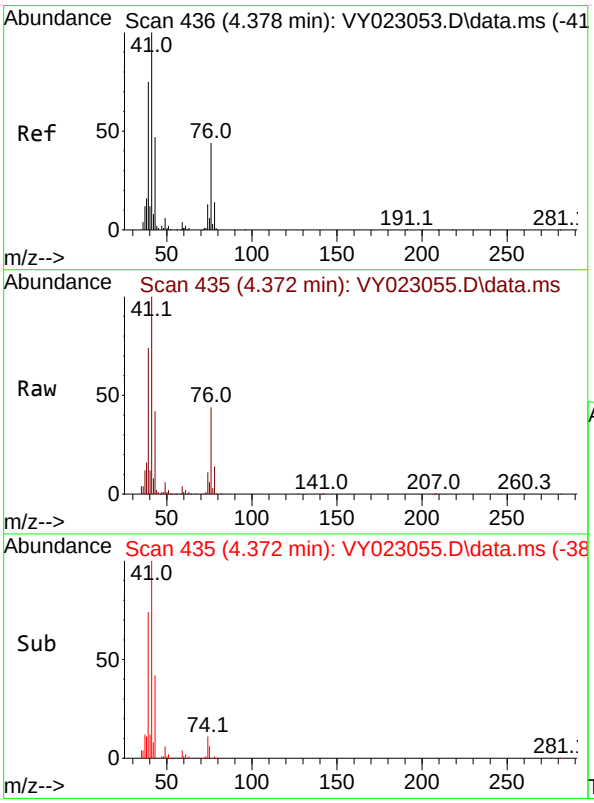
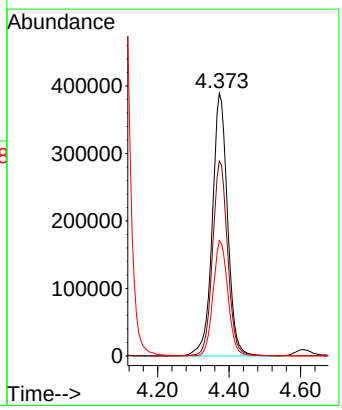
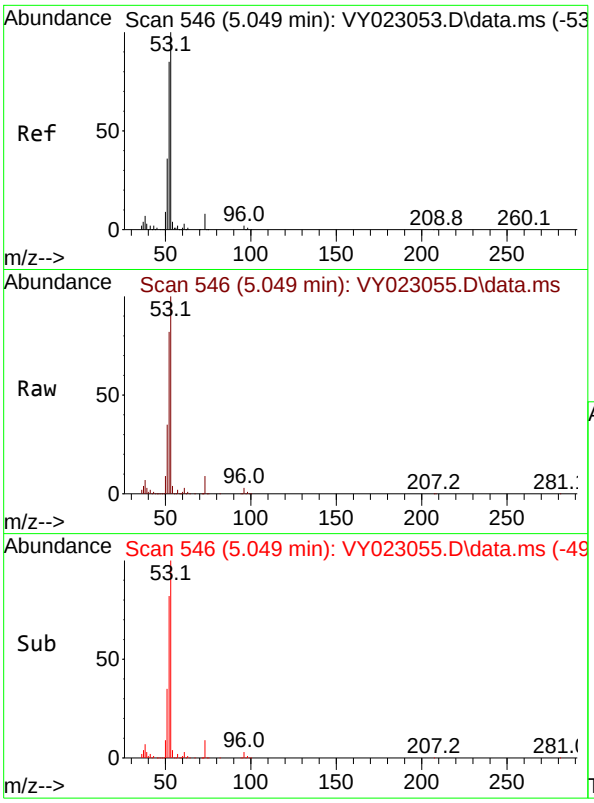


#14
Allyl chloride
Concen: 150.707 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 1151194

Ion	Ratio	Lower	Upper
41	100		
39	73.2	59.8	89.6
76	42.6	33.7	50.5

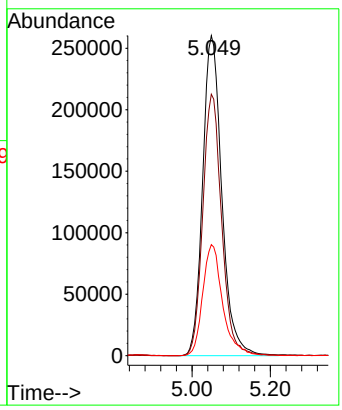




#15
Acrylonitrile
Concen: 767.115 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 53 Resp: 88329

Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.3	97.9
51	36.2	29.5	44.3



Instrument :
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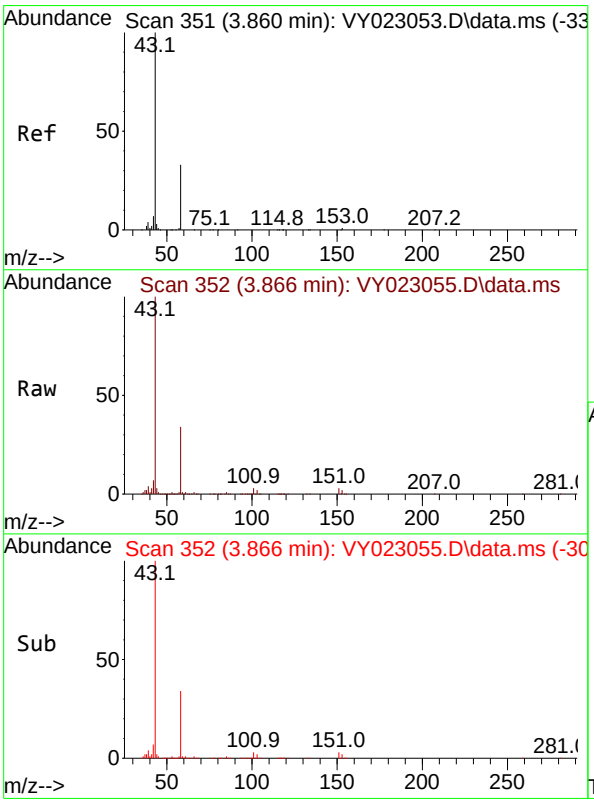
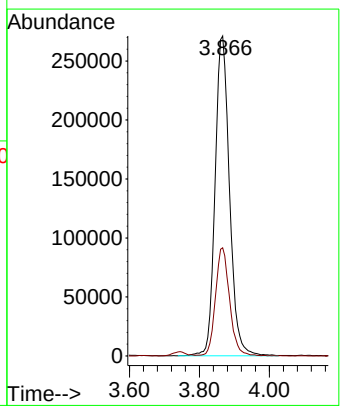
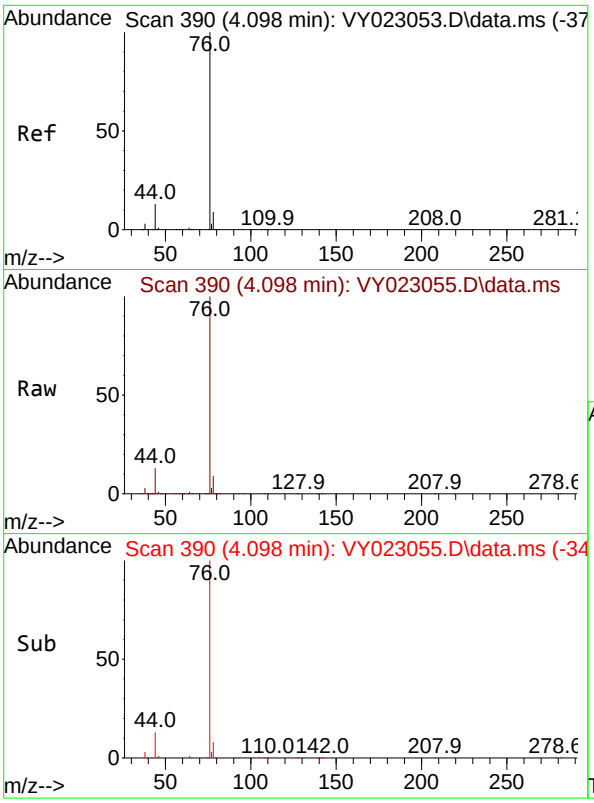


#16
Acetone
Concen: 699.133 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 777658

Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.1	40.7





#17
Carbon Disulfide
Concen: 143.357 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 76 Resp: 242656

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

Instrument :
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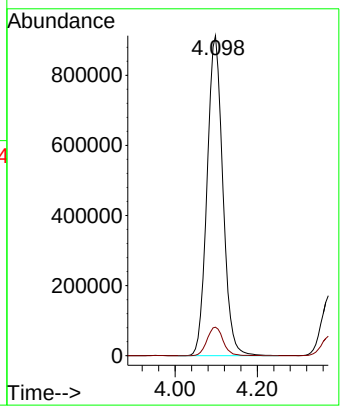
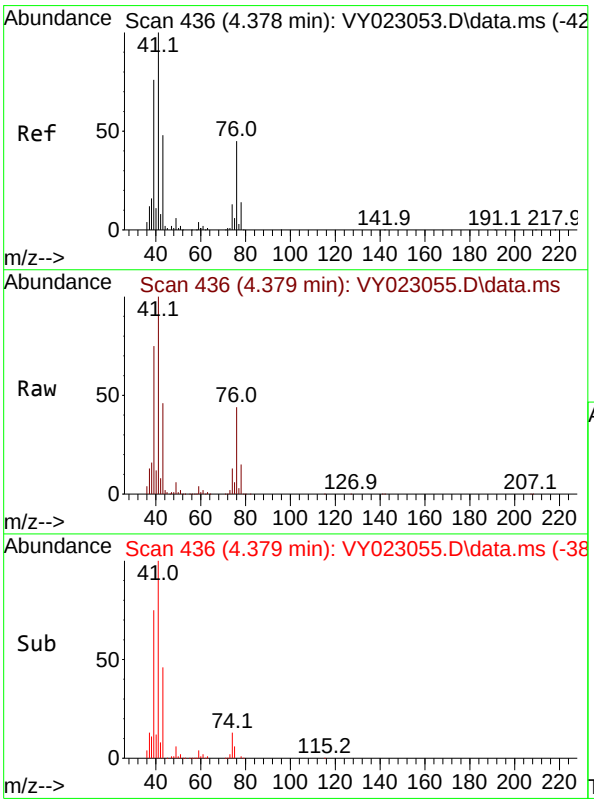
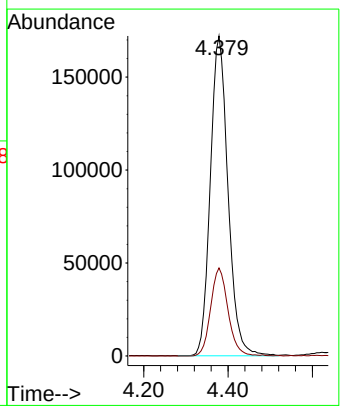


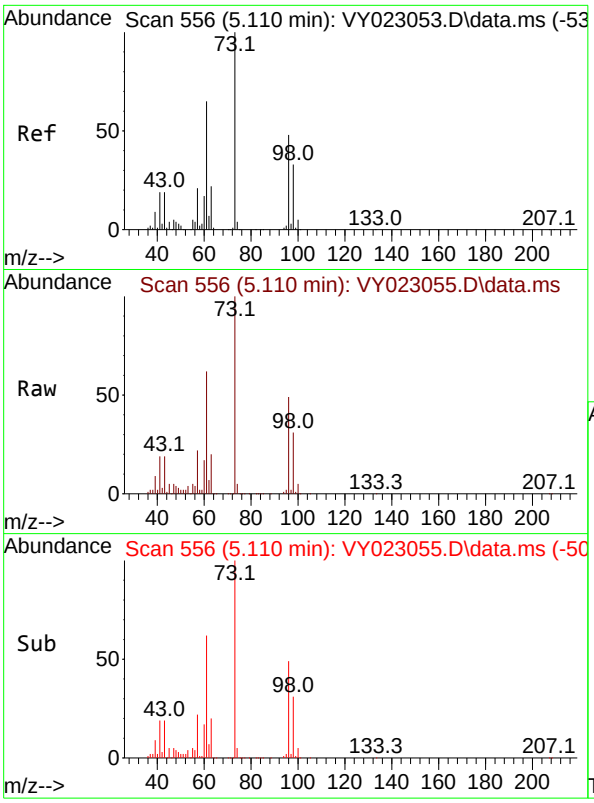


#18
Methyl Acetate
Concen: 151.100 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 500151

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8

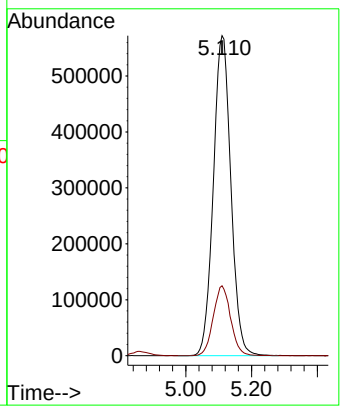




#19
Methyl tert-butyl Ether
Concen: 157.144 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 73 Resp: 211392

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
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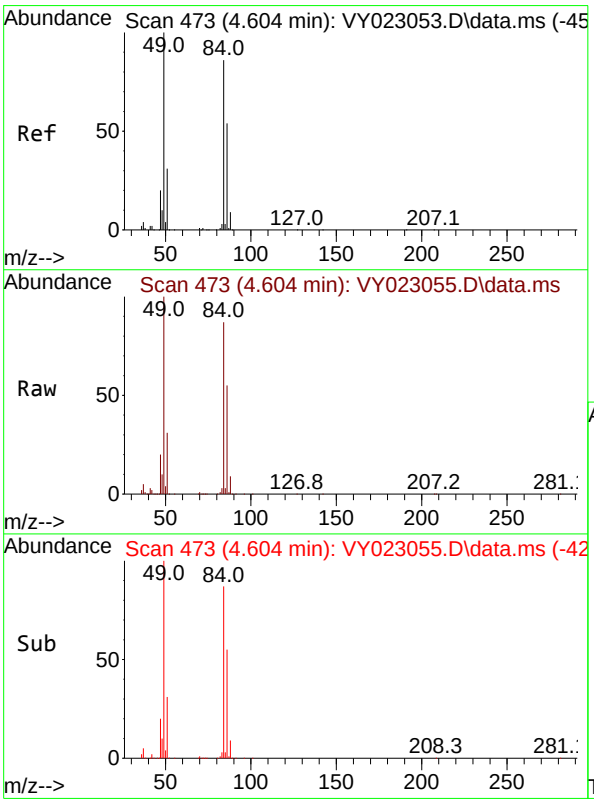
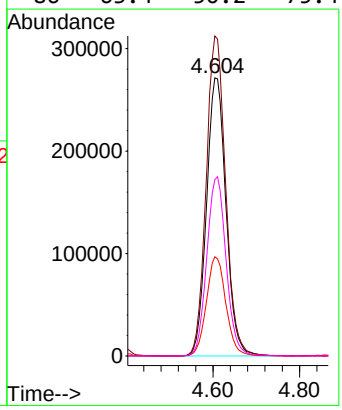
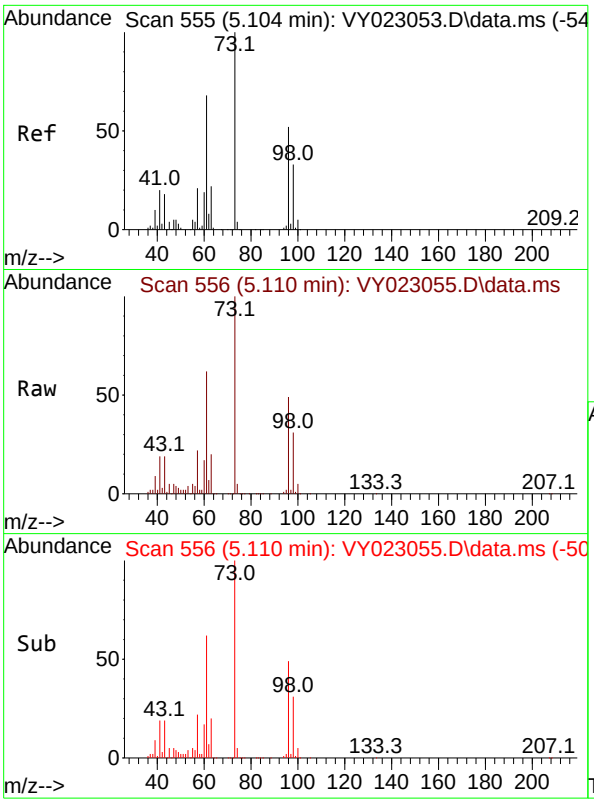


#20
Methylene Chloride
Concen: 152.064 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 84 Resp: 846955

Ion	Ratio	Lower	Upper
84	100		
49	115.1	93.0	139.6
51	35.7	29.0	43.4
86	63.4	50.2	75.4

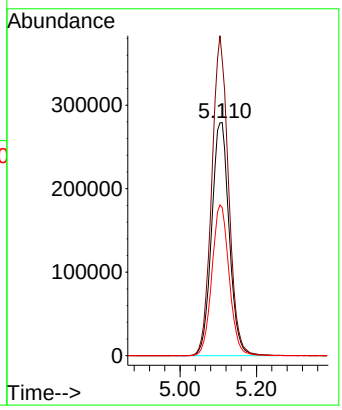




#21
trans-1,2-Dichloroethene
Concen: 152.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 88951

Ion	Ratio	Lower	Upper
96	100		
61	127.0	104.8	157.2
98	63.5	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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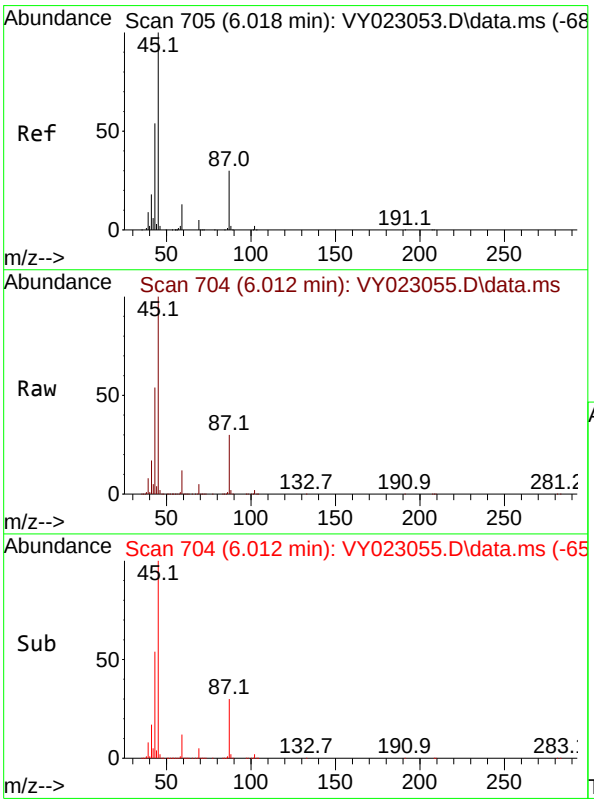
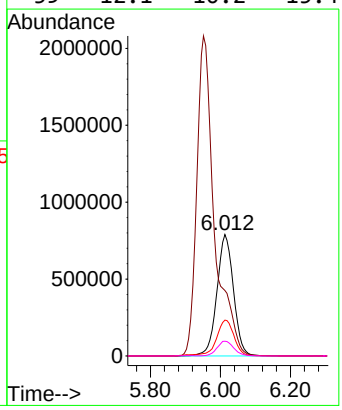
Supervised By :Semsettin Yesilyurt 08/14/2025

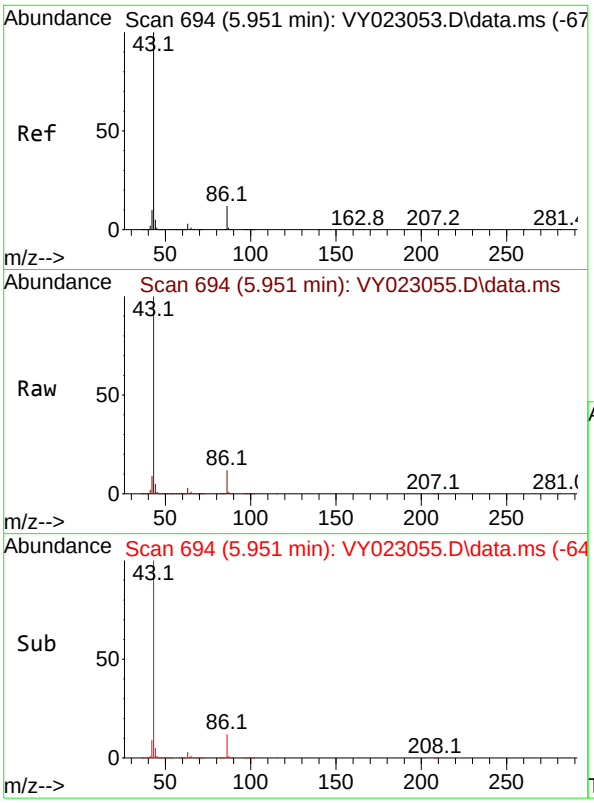


#22
Diisopropyl ether
Concen: 156.307 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 45 Resp: 2594499

Ion	Ratio	Lower	Upper
45	100		
43	53.8	43.4	65.0
87	29.5	24.4	36.6
59	12.1	10.2	15.4

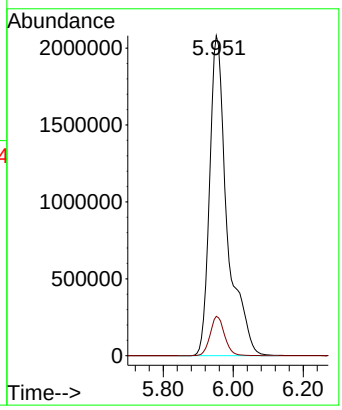




#23
Vinyl Acetate
Concen: 791.851 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 726782

Ion	Ratio	Lower	Upper
43	100		
86	12.3	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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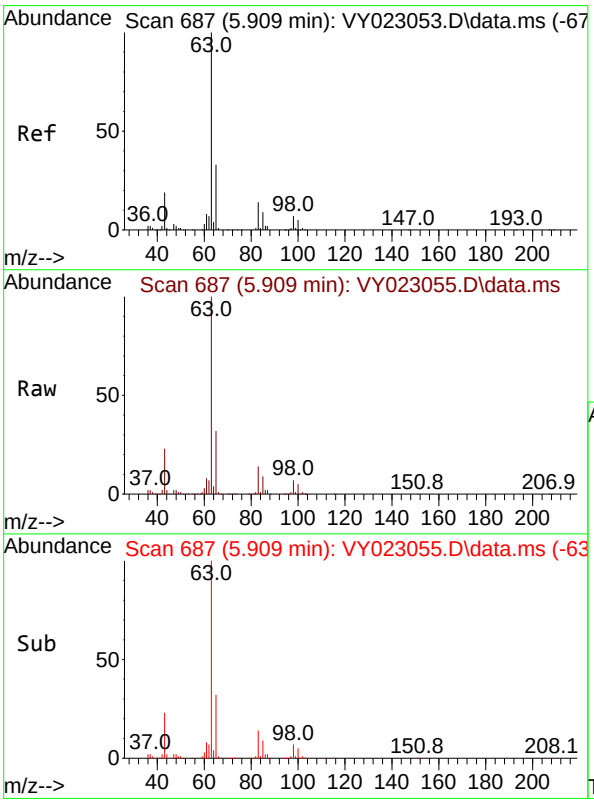
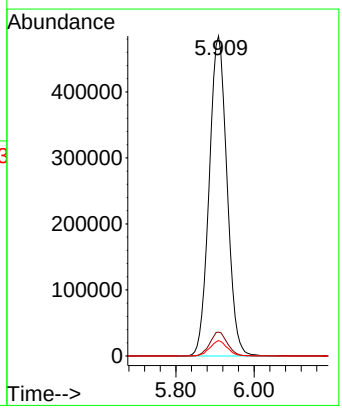
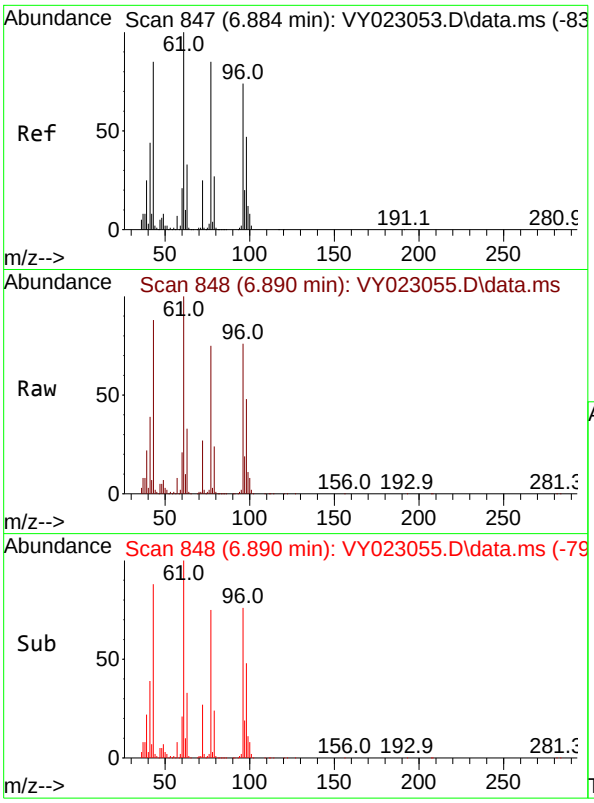


#24
1,1-Dichloroethane
Concen: 150.534 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 1527663

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.8	2.4	7.1





#25
2-Butanone
Concen: 756.289 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 114411

Ion	Ratio	Lower	Upper
43	100		
72	31.1	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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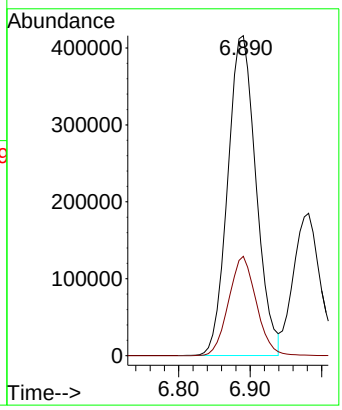
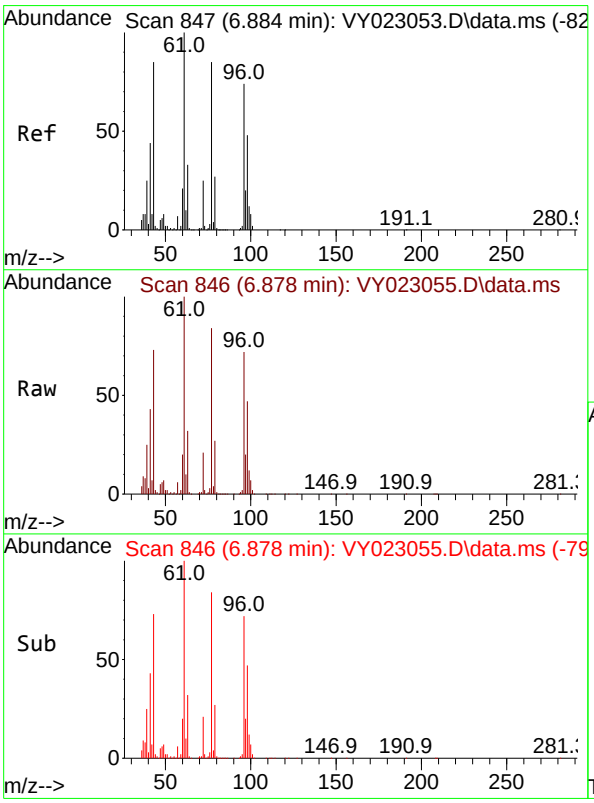
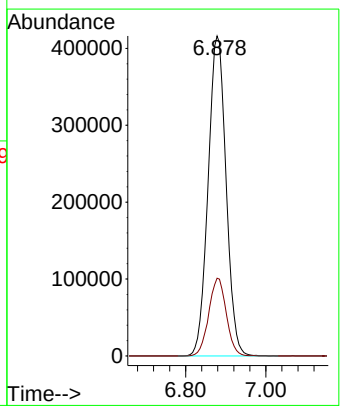


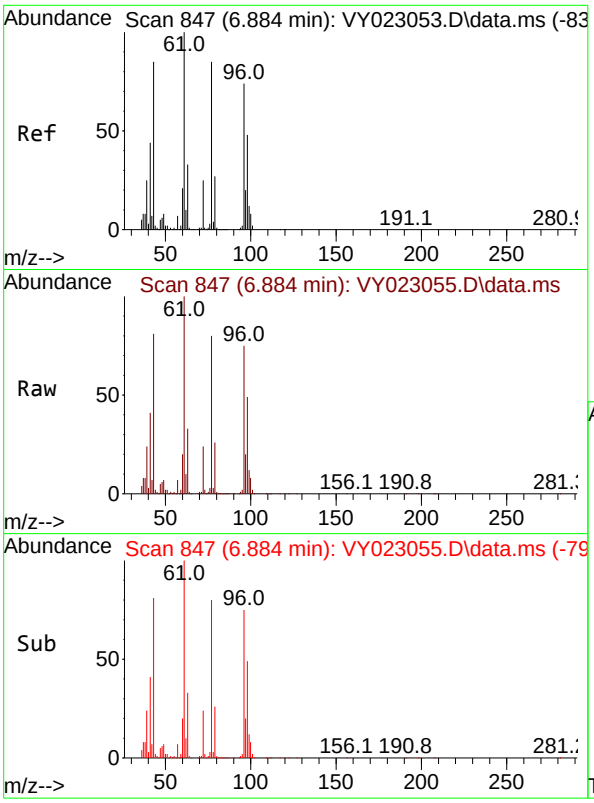


#26
2,2-Dichloropropane
Concen: 147.663 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 77 Resp: 1293043

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8

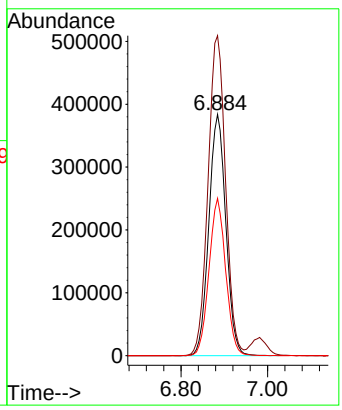




#27
cis-1,2-Dichloroethene
Concen: 155.348 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 104771

Ion	Ratio	Lower	Upper
96	100		
61	136.6	0.0	278.6
98	64.1	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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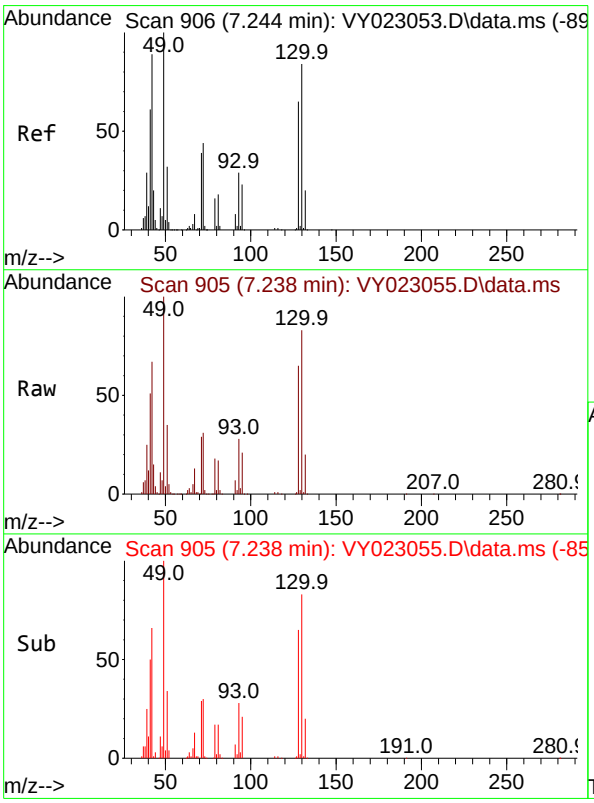
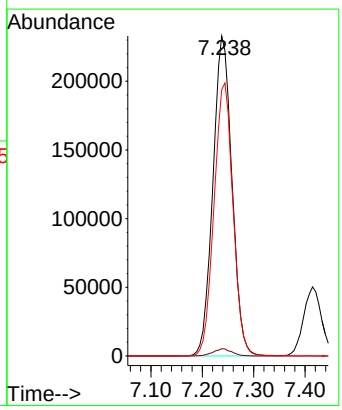
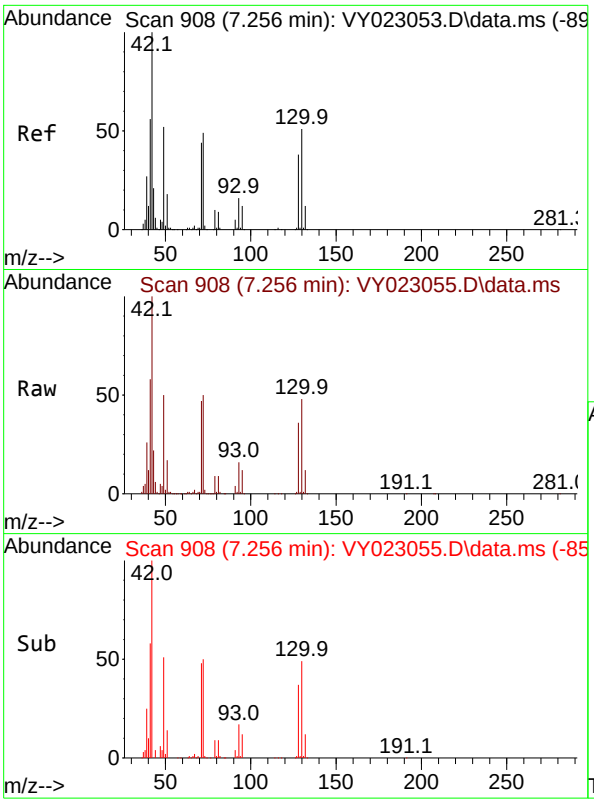


#28
Bromochloromethane
Concen: 148.984 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 49 Resp: 599841

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	84.9	66.4	99.6

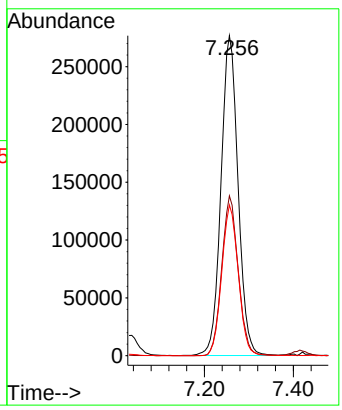




#29
Tetrahydrofuran
Concen: 783.186 ug/l
RT: 7.256 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 42 Resp: 73440(

Ion	Ratio	Lower	Upper
42	100		
72	48.3	39.4	59.2
71	45.8	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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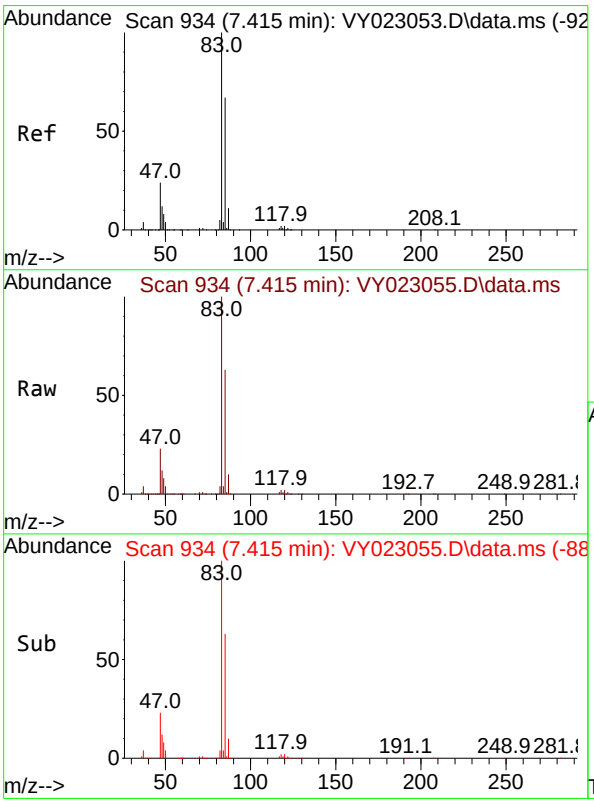
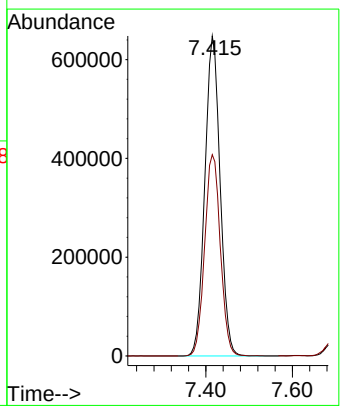
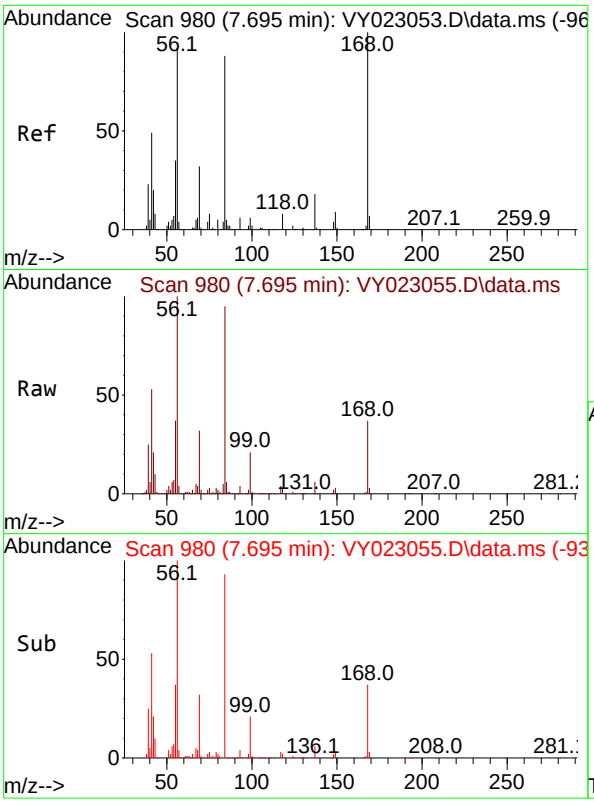


#30
Chloroform
Concen: 151.505 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 1585686

Ion	Ratio	Lower	Upper
83	100		
85	62.9	53.8	80.8

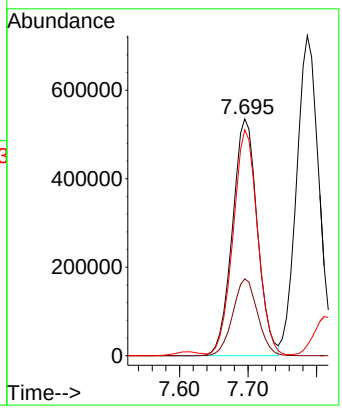




#31
Cyclohexane
Concen: 141.586 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 56 Resp: 135402

Ion	Ratio	Lower	Upper
56	100		
69	32.4	28.2	42.2
84	94.2	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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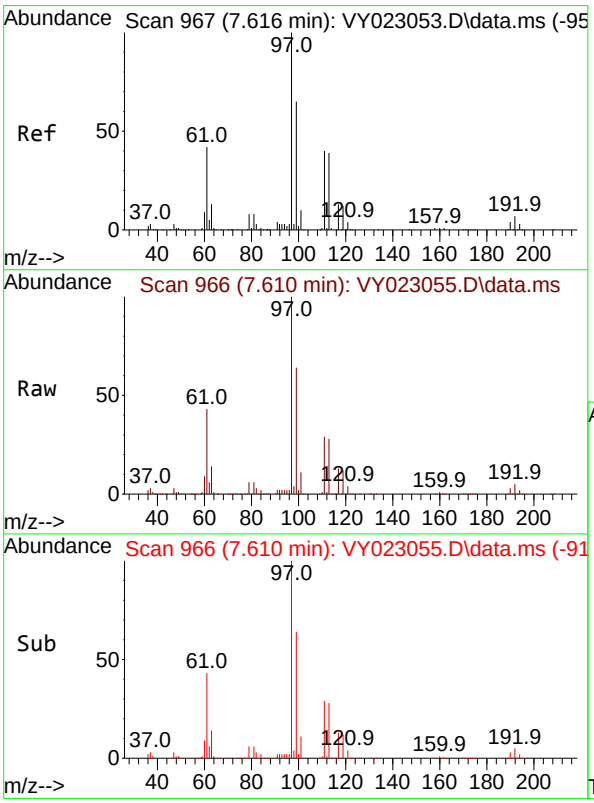
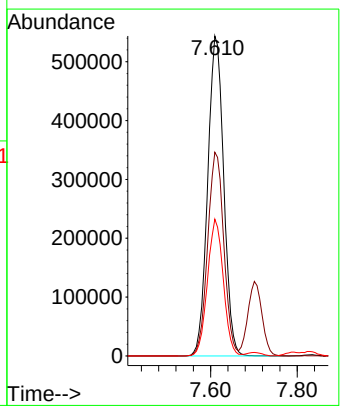
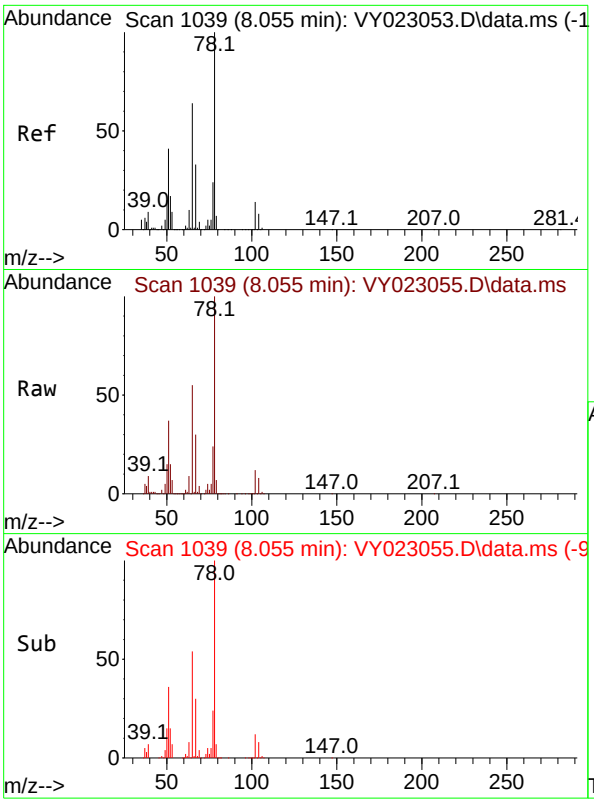


#32
1,1,1-Trichloroethane
Concen: 150.372 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 97 Resp: 1396470

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.6	77.4
61	42.4	34.2	51.2

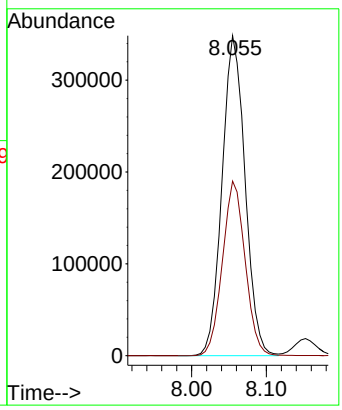




#33
1,2-Dichloroethane-d4
Concen: 145.480 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 65 Resp: 74693

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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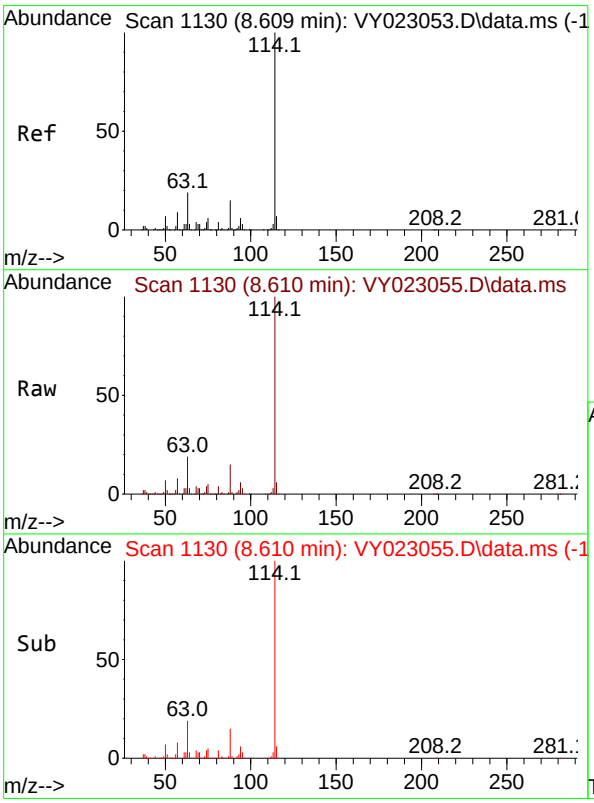
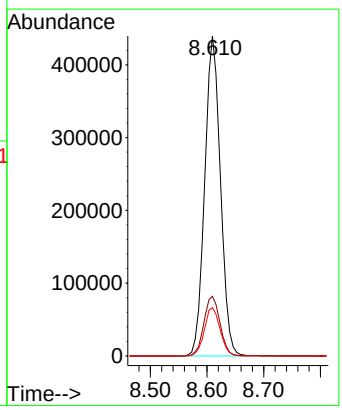
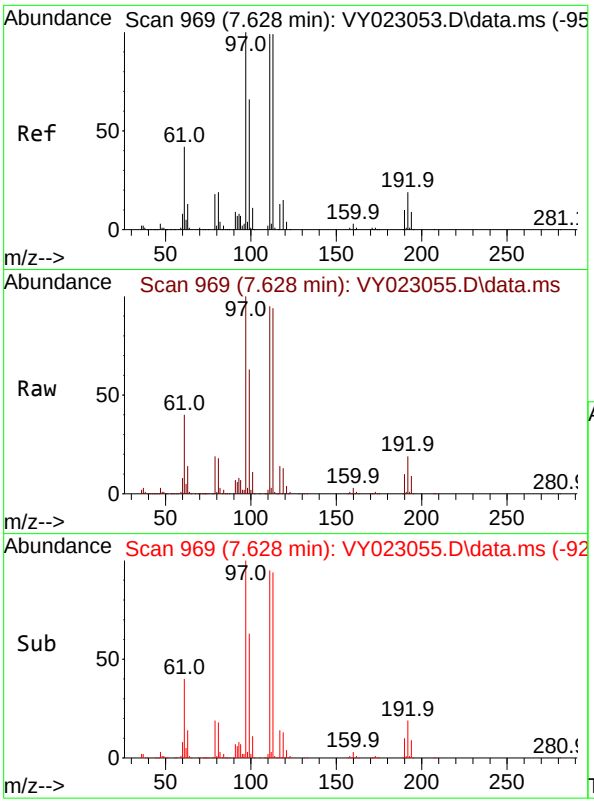


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:114 Resp: 844092

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	15.1	0.0	30.0





#35
Dibromofluoromethane
Concen: 152.837 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:113 Resp: 771944

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.1	121.7
192	20.4	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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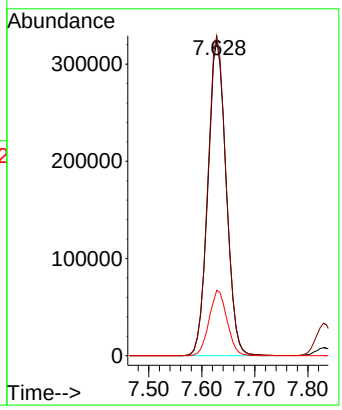
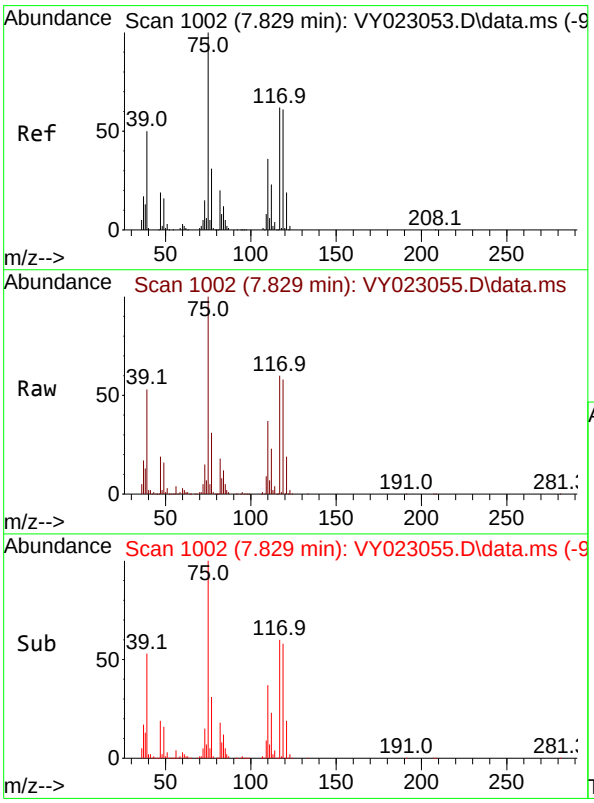
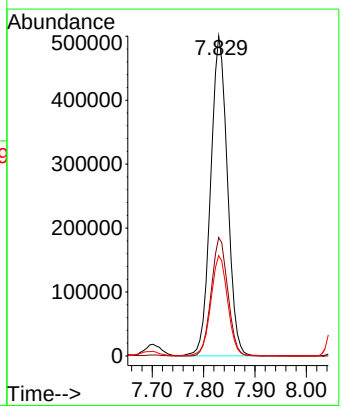


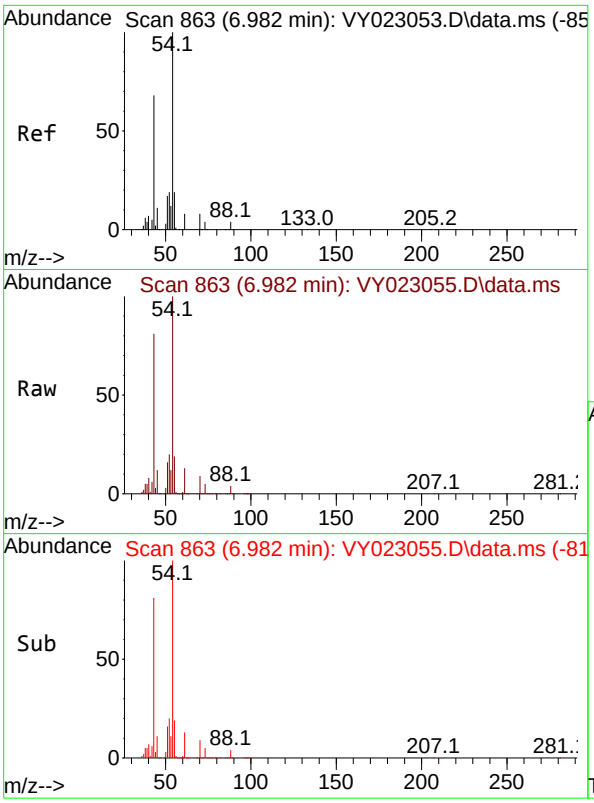


#36
1,1-Dichloropropene
Concen: 150.850 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1132306

Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.1	54.4
77	31.5	24.6	37.0

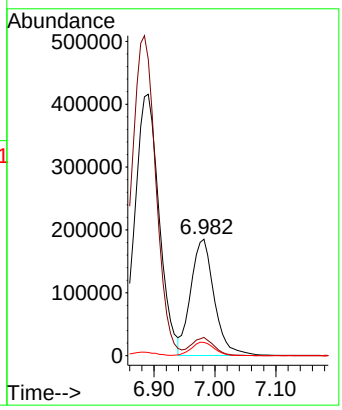




#37
Ethyl Acetate
Concen: 156.788 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 49437

Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.9	17.9
70	11.4	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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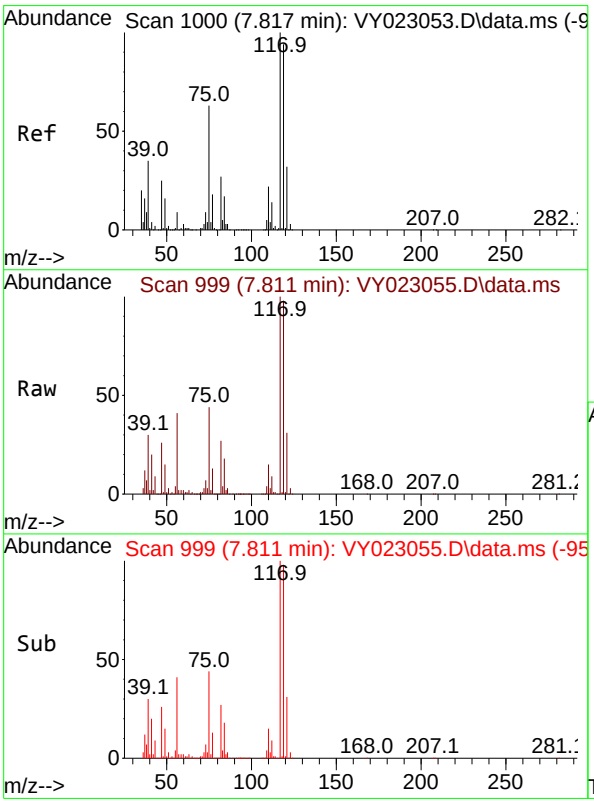
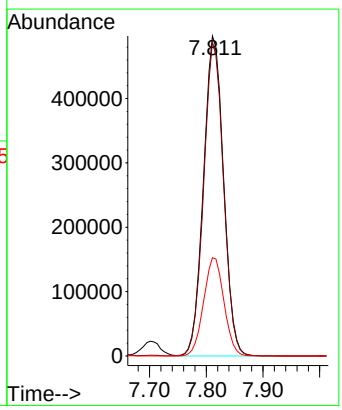
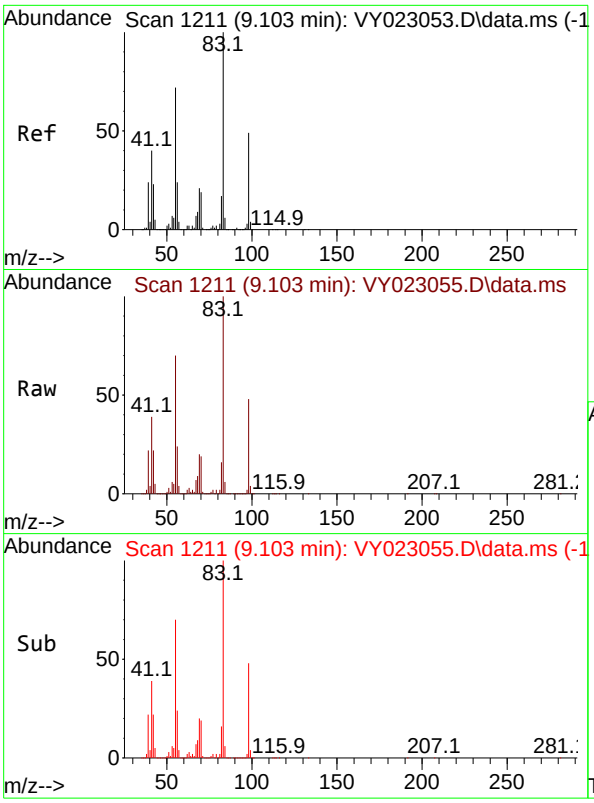


#38
Carbon Tetrachloride
Concen: 150.478 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 1226800

Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.6	113.4
121	30.7	25.8	38.8

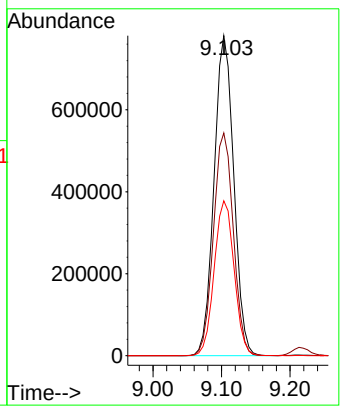




#39
Methylcyclohexane
Concen: 157.417 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 155600

Ion	Ratio	Lower	Upper
83	100		
55	69.6	57.6	86.4
98	48.4	39.2	58.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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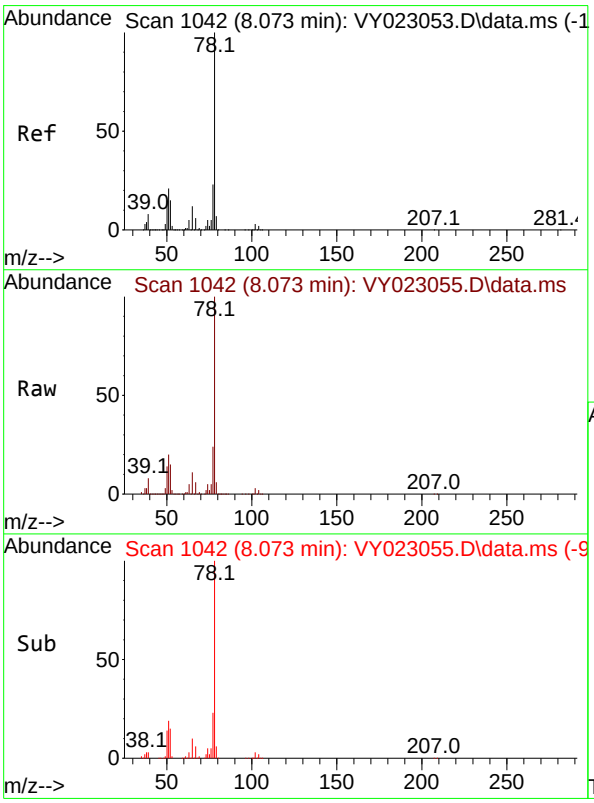
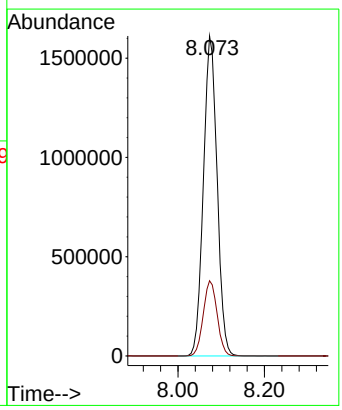
Supervised By :Semsettin Yesilyurt 08/14/2025

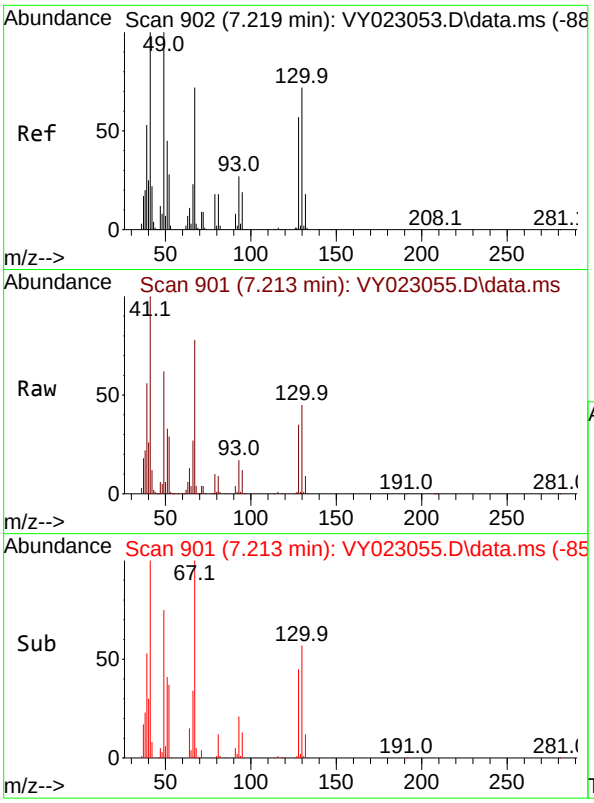


#40
Benzene
Concen: 152.720 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 78 Resp: 3533174

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0

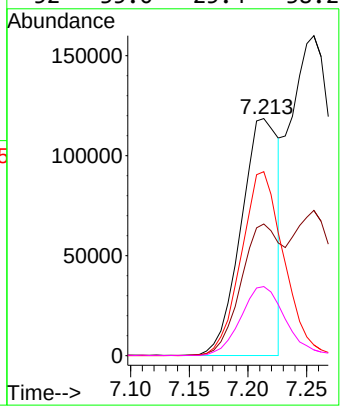




#41
Methacrylonitrile
Concen: 143.669 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 26172

Ion	Ratio	Lower	Upper
41	100		
39	62.2	43.4	65.2
67	89.0	63.6	95.4
52	35.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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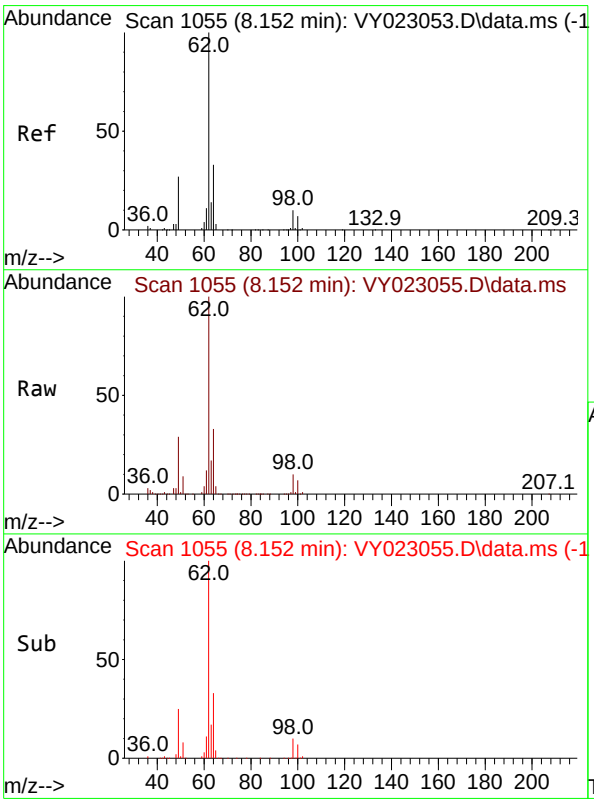
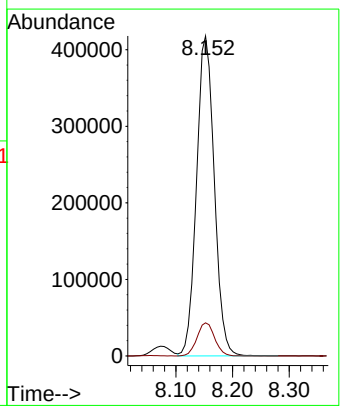
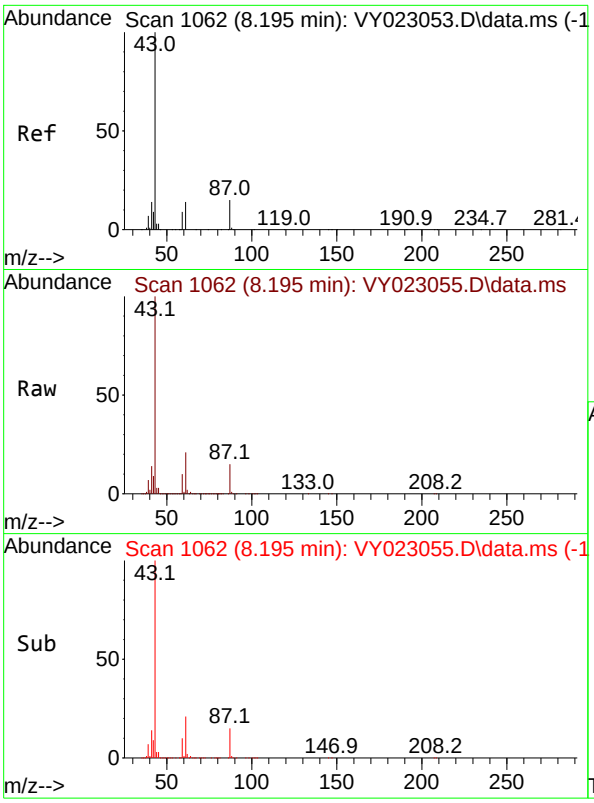


#42
1,2-Dichloroethane
Concen: 151.078 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 909030

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6

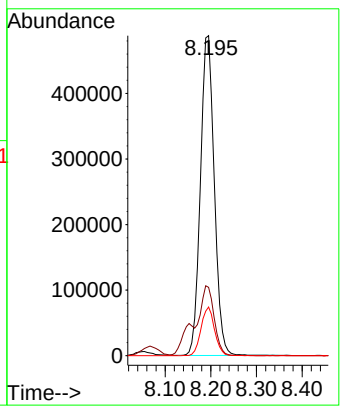




#43
Isopropyl Acetate
Concen: 161.596 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 102985

Ion	Ratio	Lower	Upper
43	100		
61	22.1	16.4	24.6
87	14.8	11.8	17.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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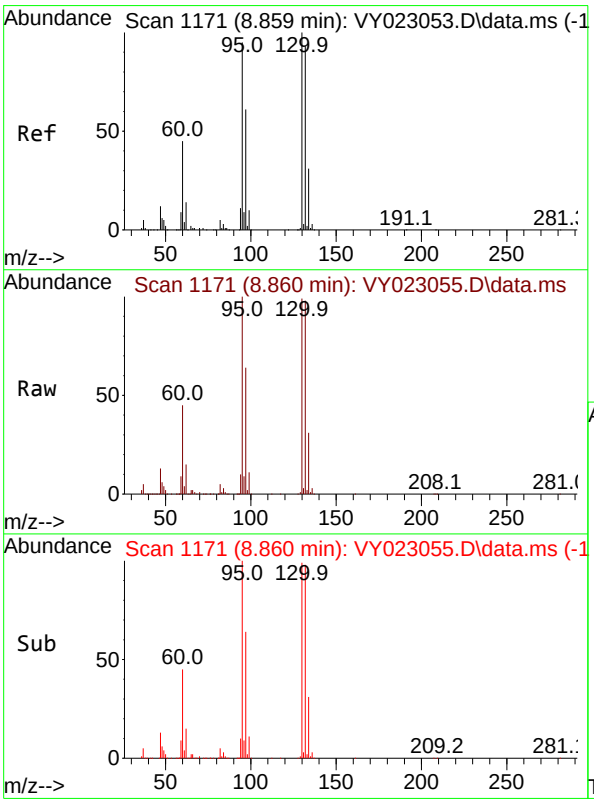
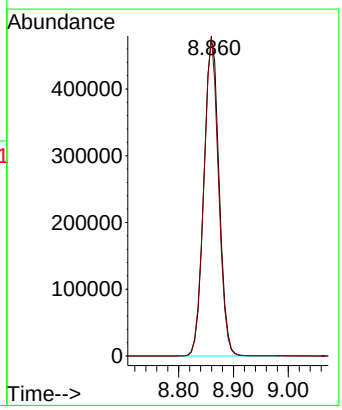
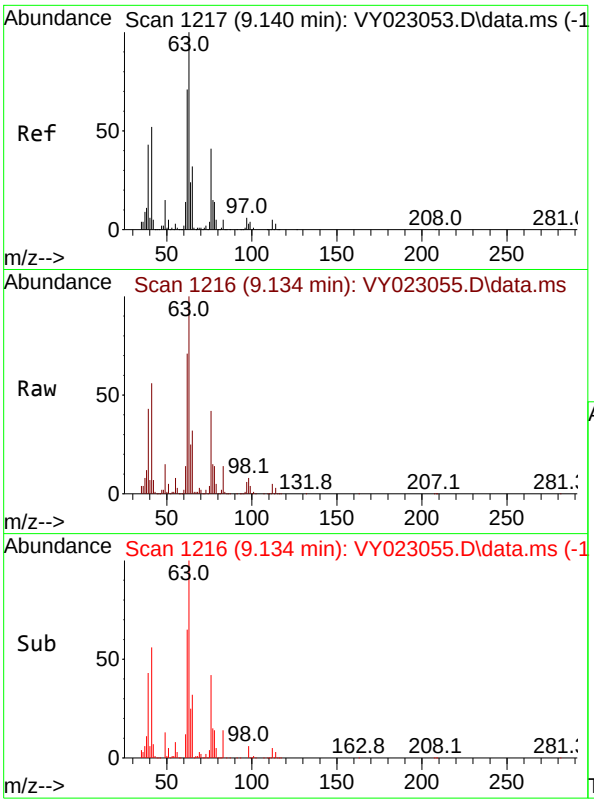


#44
Trichloroethene
Concen: 152.126 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:130 Resp: 909510

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.2





#45
1,2-Dichloropropane
Concen: 154.426 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 82203

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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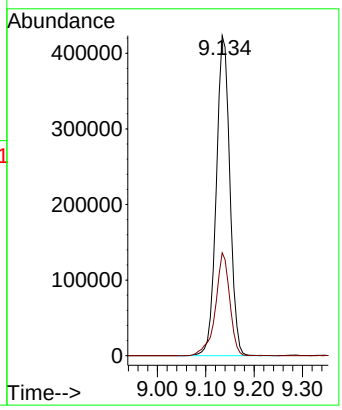
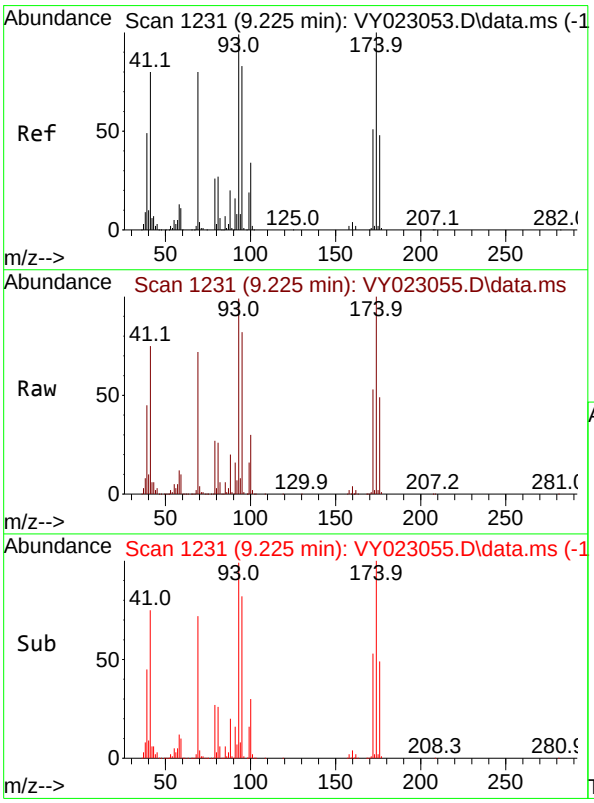
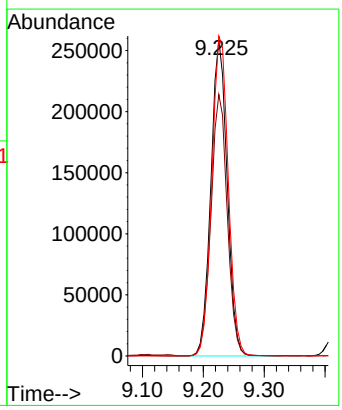


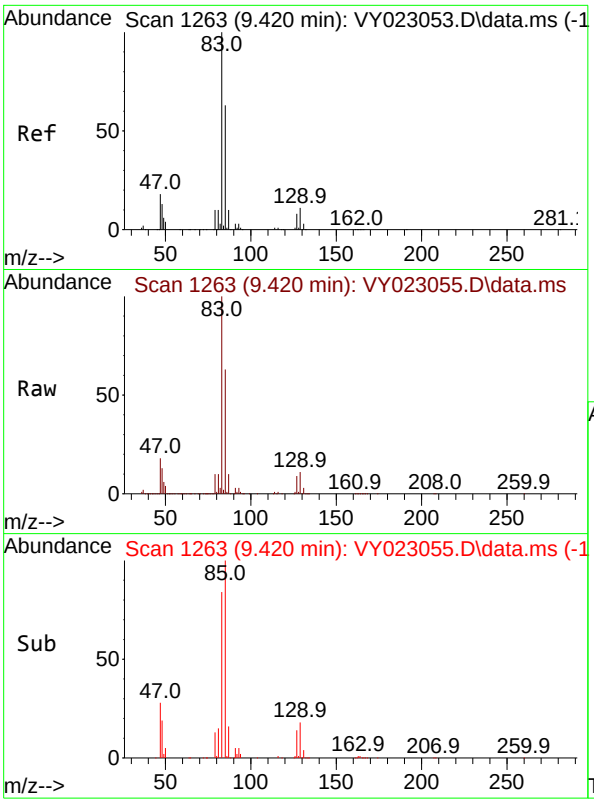


#46
Dibromomethane
Concen: 157.156 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 93 Resp: 480162

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.5	99.7
174	102.6	81.8	122.8

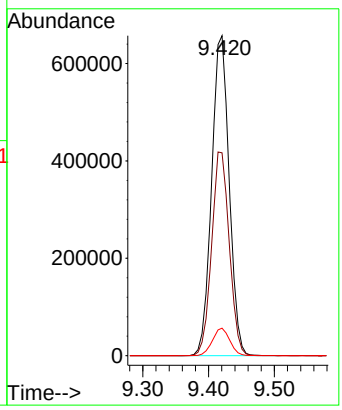




#47
Bromodichloromethane
Concen: 154.884 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 121765

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.2	75.4
127	8.6	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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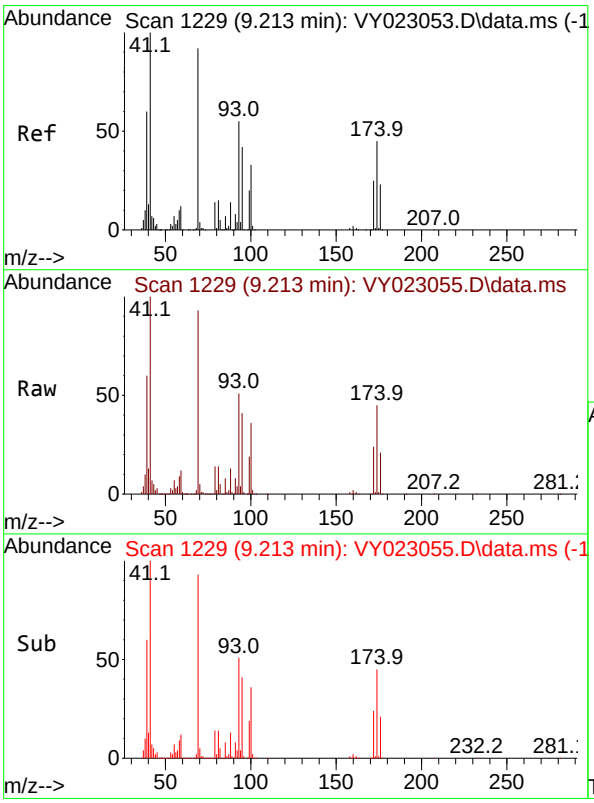
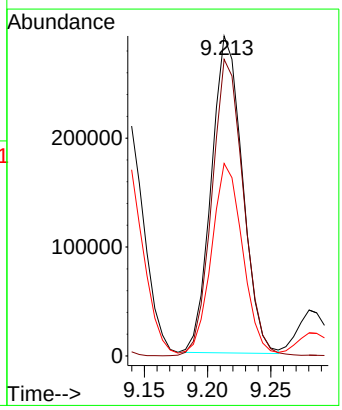
Supervised By :Semsettin Yesilyurt 08/14/2025

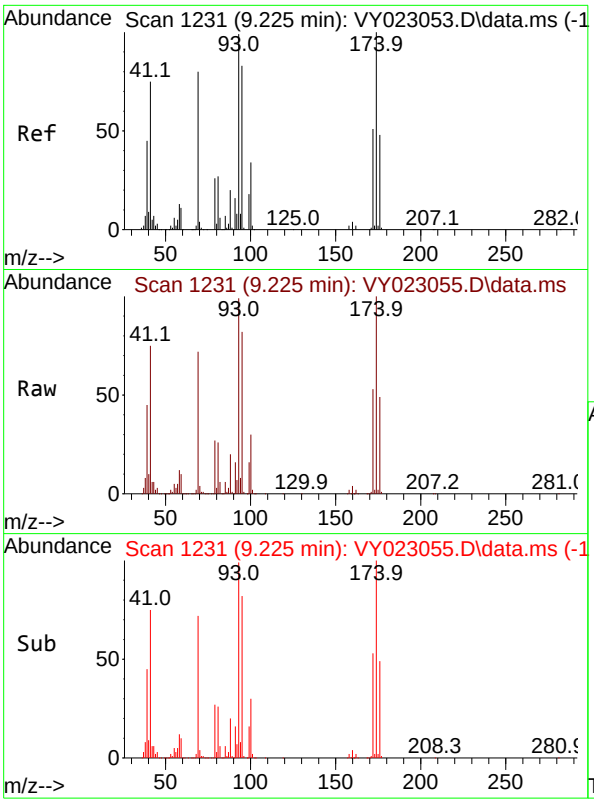


#48
Methyl methacrylate
Concen: 163.144 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 497527

Ion	Ratio	Lower	Upper
41	100		
69	95.0	73.2	109.8
39	59.3	47.0	70.4





#49
1,4-Dioxane
Concen: 3280.235 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 88 Resp: 11751

Ion	Ratio	Lower	Upper
88	100		
43	30.0	24.3	36.5
58	67.5	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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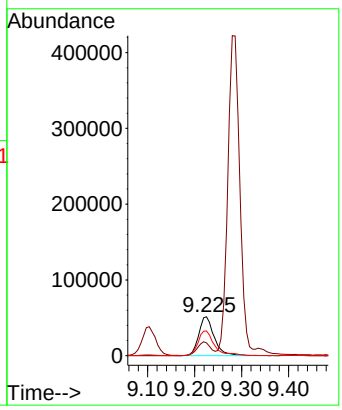
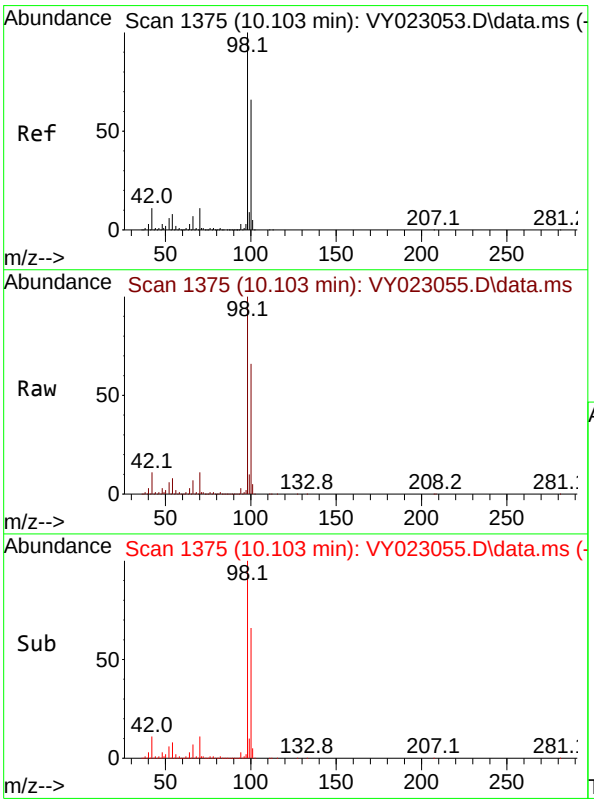
Supervised By :Semsettin Yesilyurt 08/14/2025

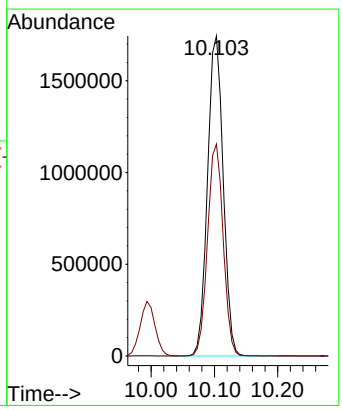


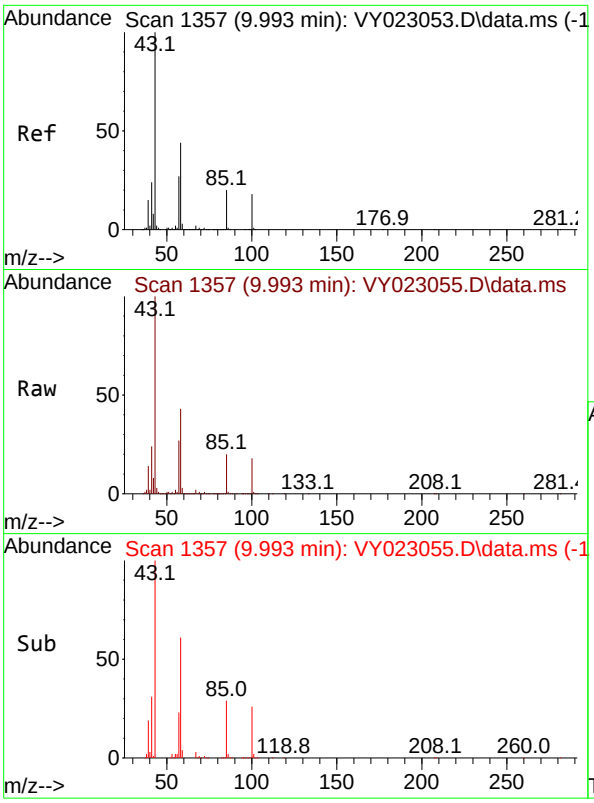


#50
Toluene-d8
Concen: 152.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 98 Resp: 3003834

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 814.509 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 267758

Ion	Ratio	Lower	Upper
43	100		
58	42.6	33.5	50.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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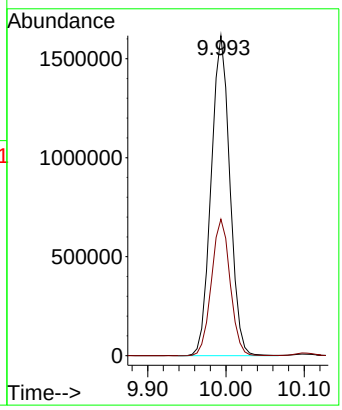
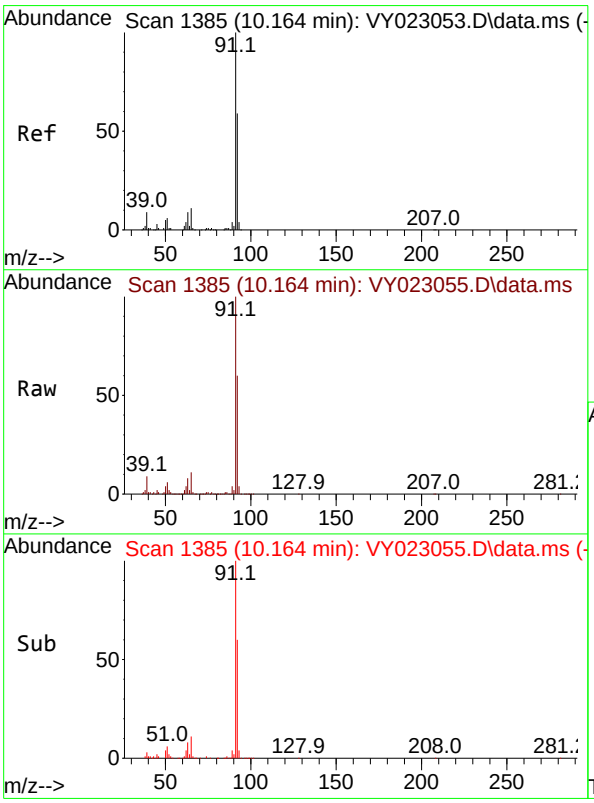
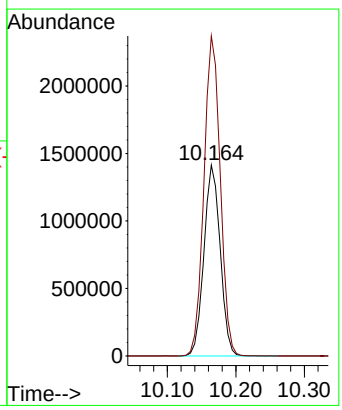


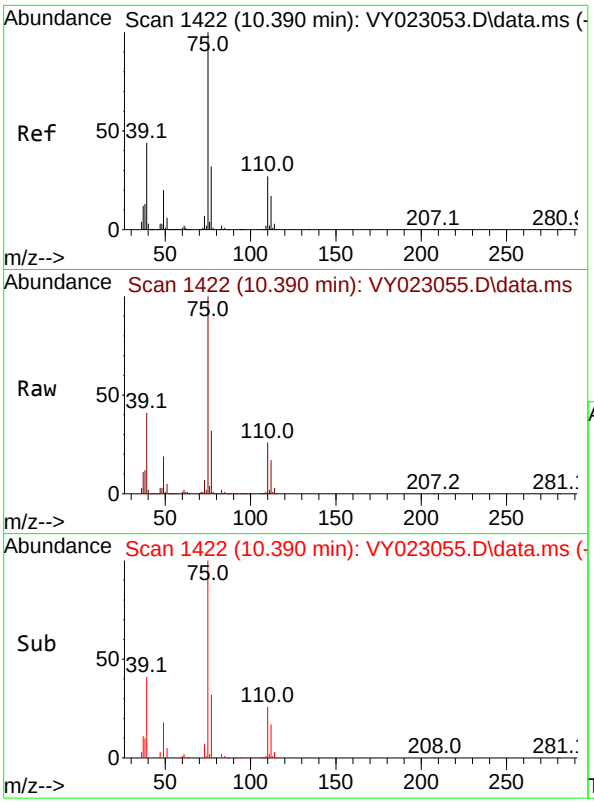


#52
Toluene
Concen: 158.762 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 92 Resp: 2332797

Ion	Ratio	Lower	Upper
92	100		
91	168.8	136.4	204.6

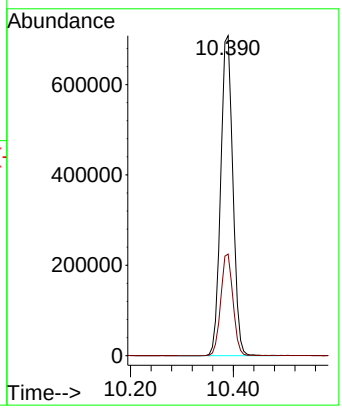




#53
t-1,3-Dichloropropene
Concen: 163.355 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 116295

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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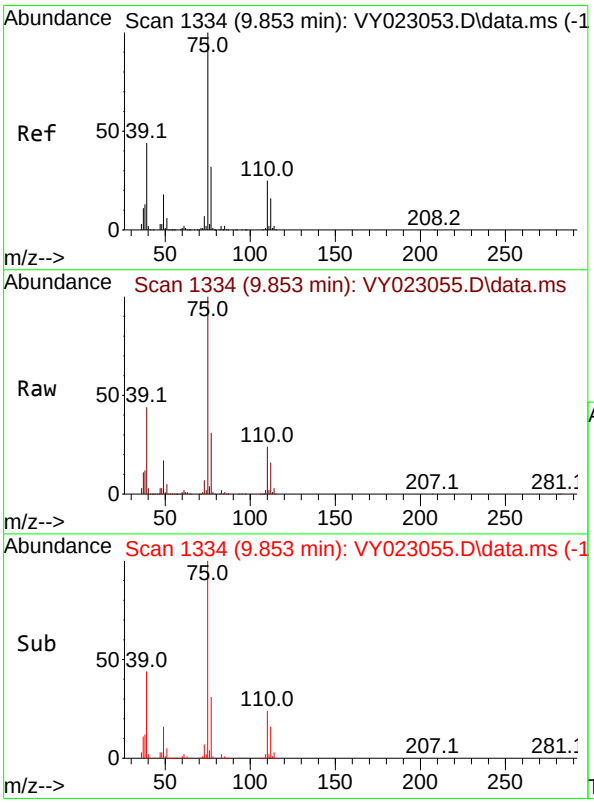
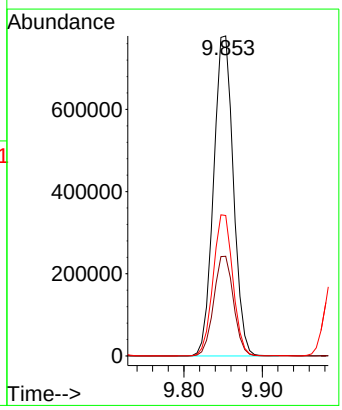
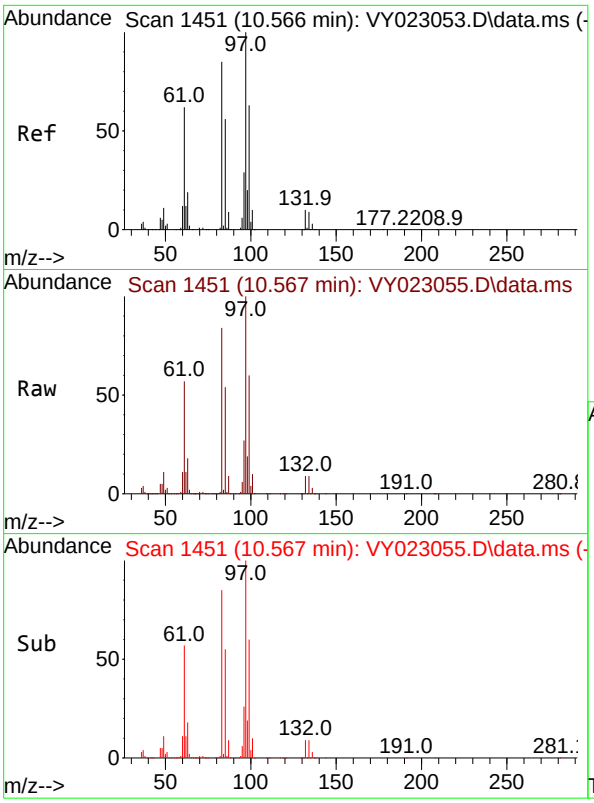


#54
cis-1,3-Dichloropropene
Concen: 162.359 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1366797

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	43.9	35.6	53.4

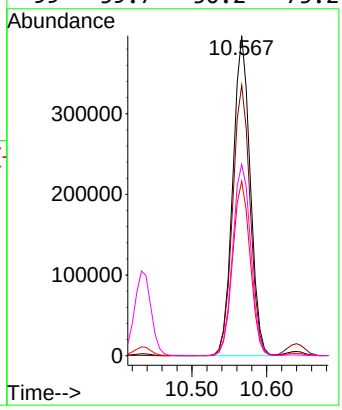




#55
1,1,2-Trichloroethane
Concen: 157.090 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 97 Resp: 64223

Ion	Ratio	Lower	Upper
97	100		
83	84.5	67.7	101.5
85	54.5	44.5	66.7
99	59.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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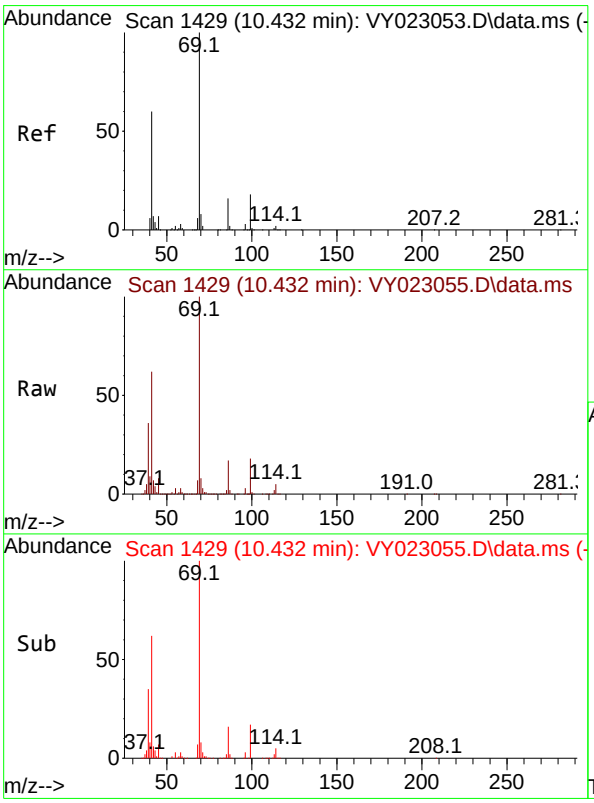
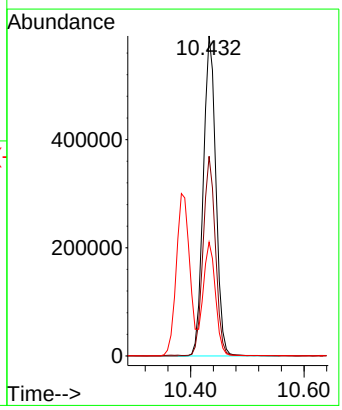
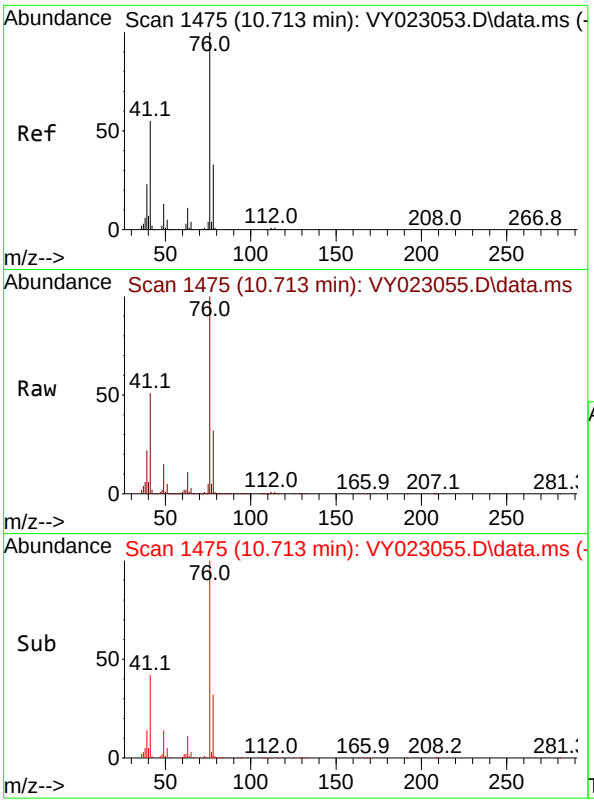


#56
Ethyl methacrylate
Concen: 173.693 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 69 Resp: 908662

Ion	Ratio	Lower	Upper
69	100		
41	60.9	48.6	72.8
39	33.4	27.0	40.4

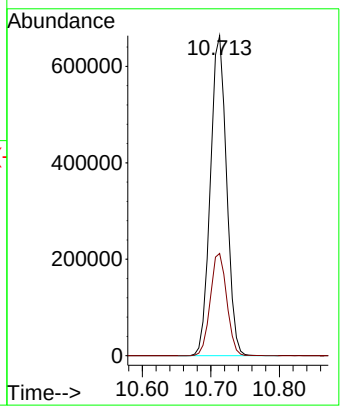




#57
1,3-Dichloropropane
Concen: 156.818 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 76 Resp: 108729

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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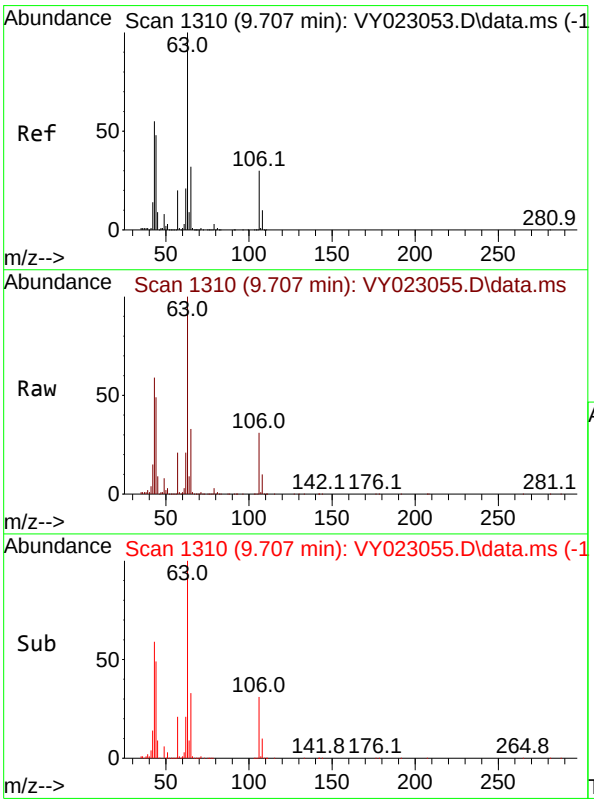
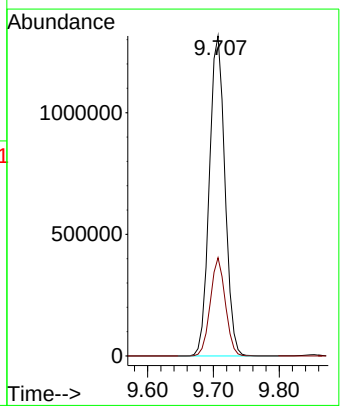
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

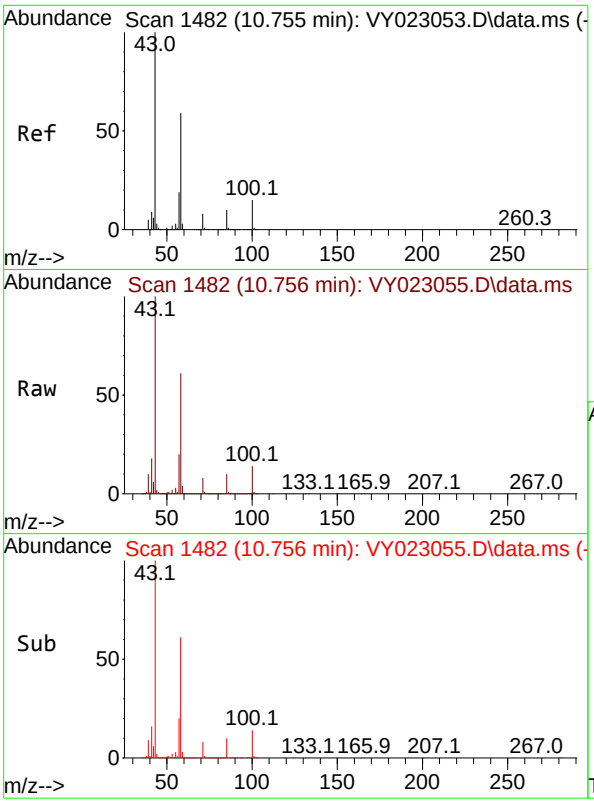


#58
2-Chloroethyl Vinyl ether
Concen: 878.488 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 2167815

Ion	Ratio	Lower	Upper
63	100		
106	29.6	23.2	34.8

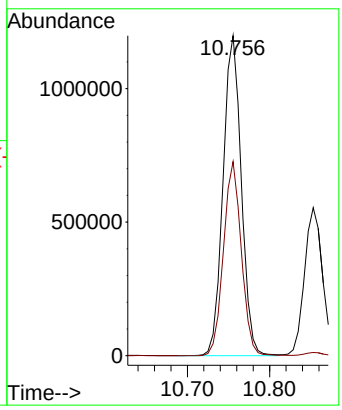




#59
2-Hexanone
Concen: 825.606 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 184809

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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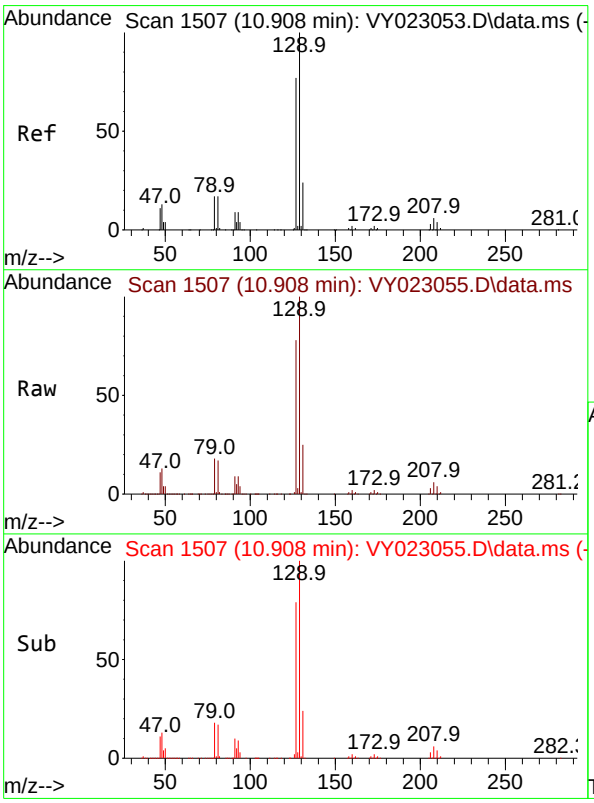
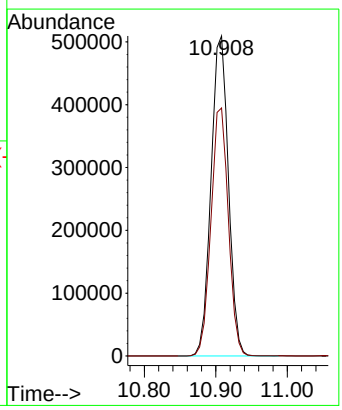
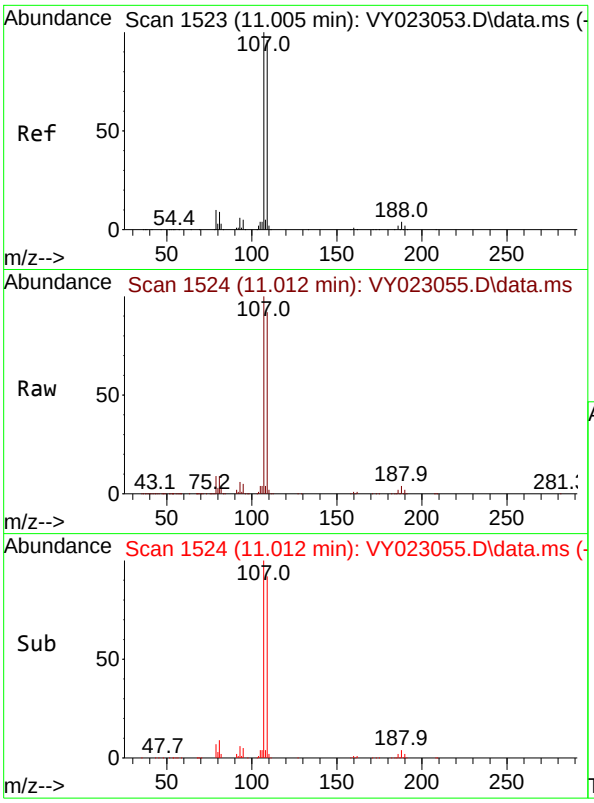


#60
Dibromochloromethane
Concen: 159.454 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:129 Resp: 860181

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5

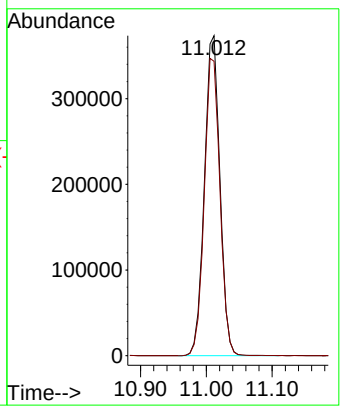




#61
1,2-Dibromoethane
Concen: 159.546 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:107 Resp: 61306

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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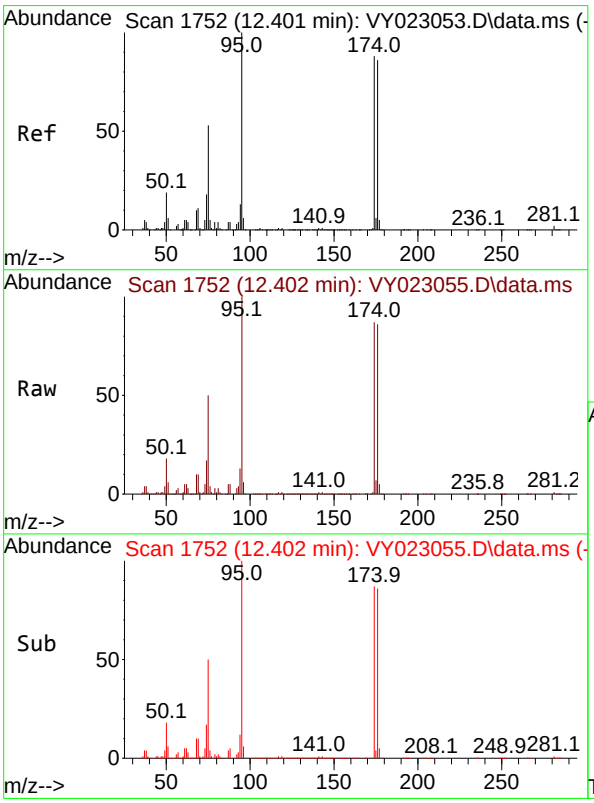
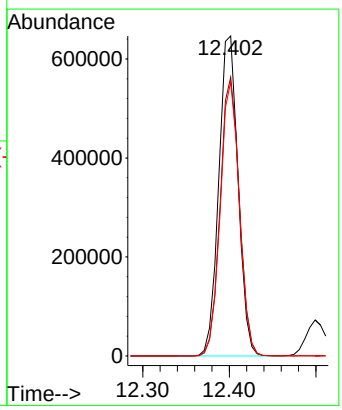
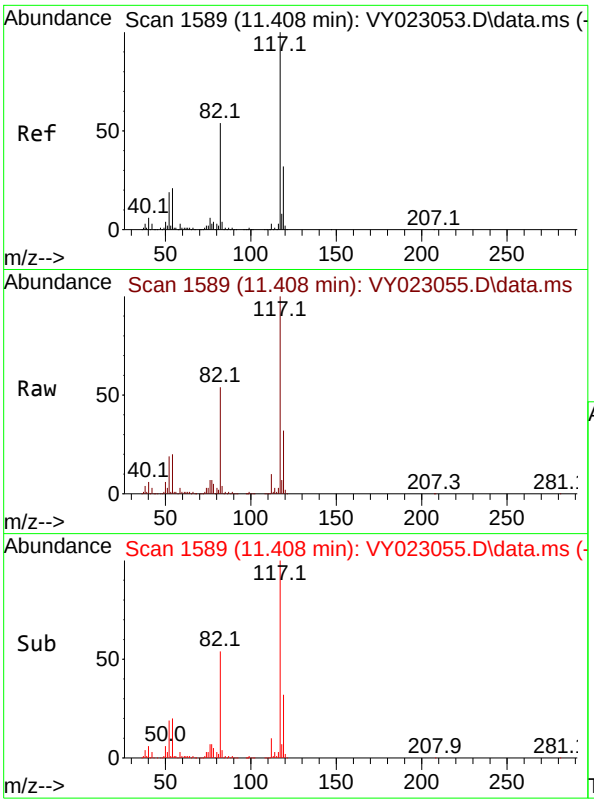


#62
4-Bromofluorobenzene
Concen: 157.326 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 95 Resp: 998318

Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	171.6
176	84.6	0.0	167.6

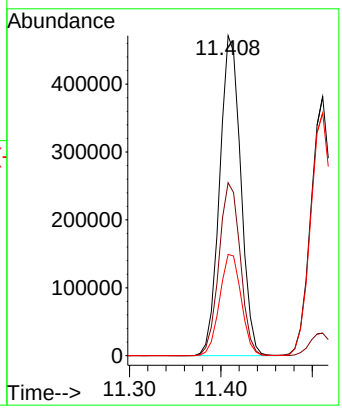




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 75636

Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.4	65.0
119	31.7	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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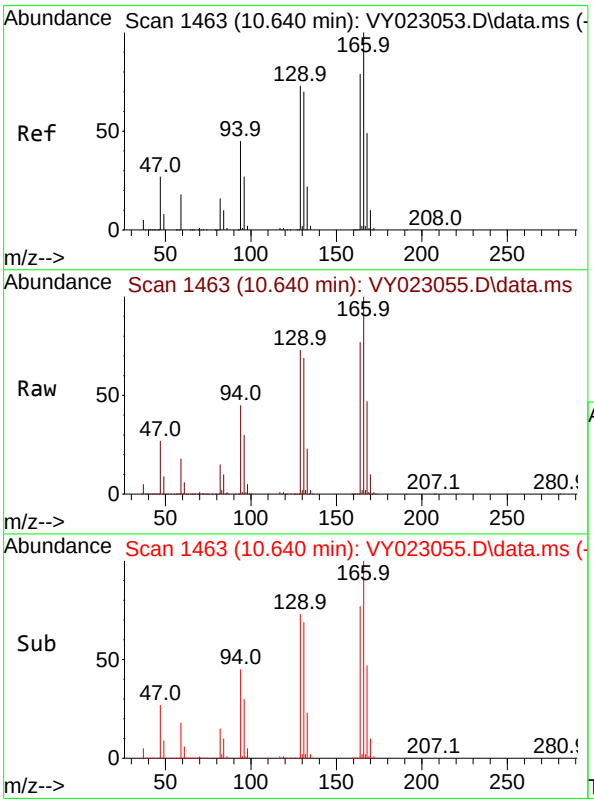
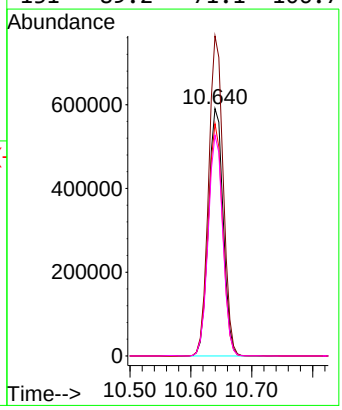
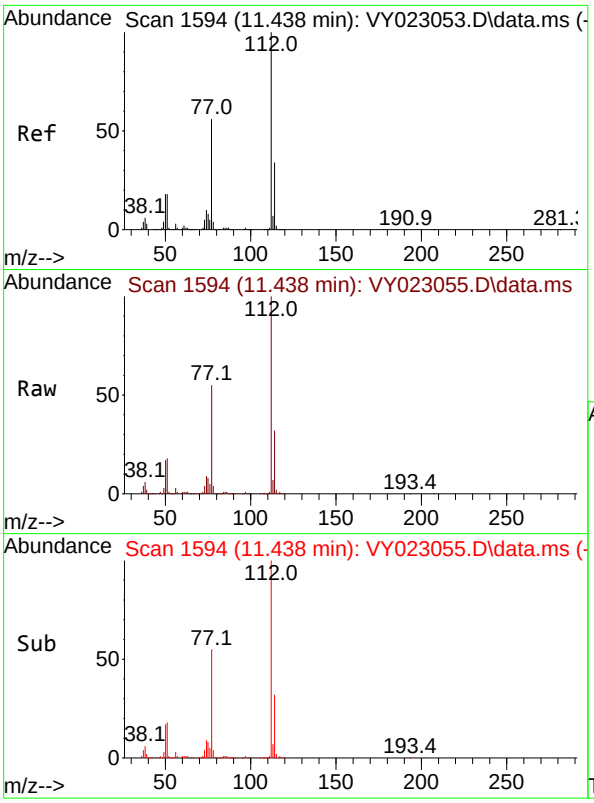


#64
Tetrachloroethene
Concen: 146.682 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:164 Resp: 990664

Ion	Ratio	Lower	Upper
164	100		
166	129.4	101.1	151.7
129	93.9	74.0	111.0
131	89.2	71.1	106.7

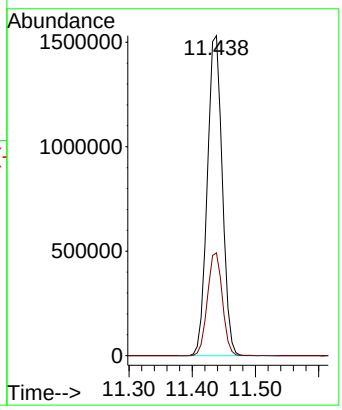




#65
Chlorobenzene
Concen: 154.514 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:112 Resp: 252087

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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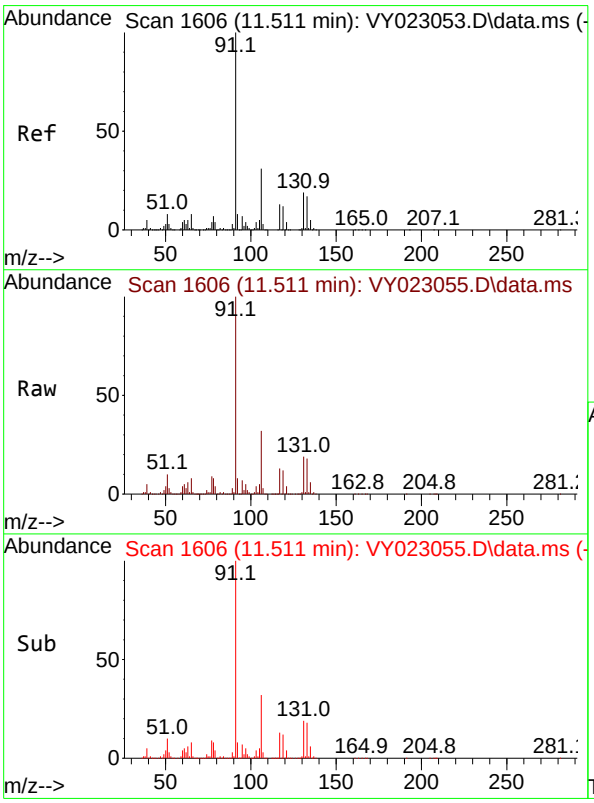
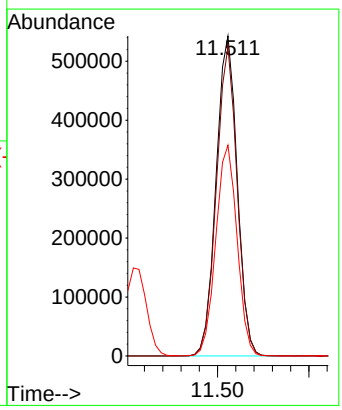
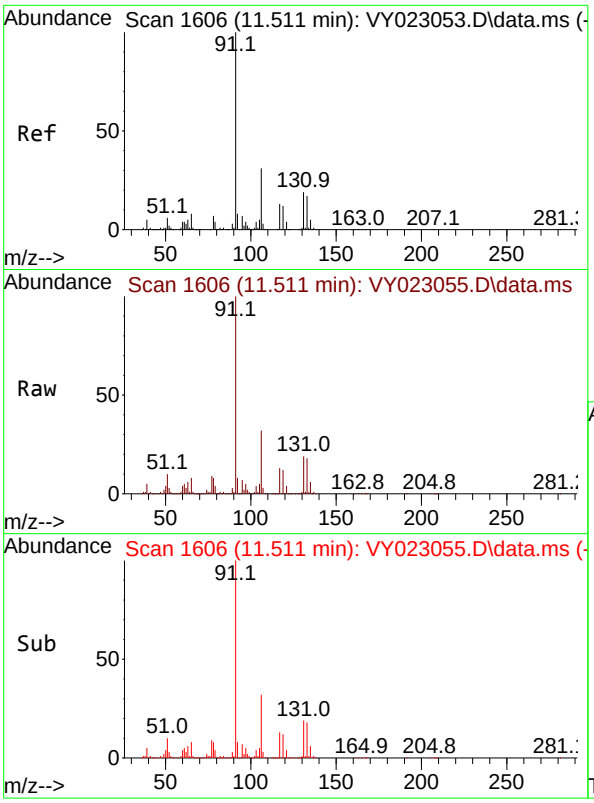


#66
1,1,1,2-Tetrachloroethane
Concen: 157.304 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:131 Resp: 871003

Ion	Ratio	Lower	Upper
131	100		
133	95.1	46.9	140.6
119	66.5	33.2	99.6

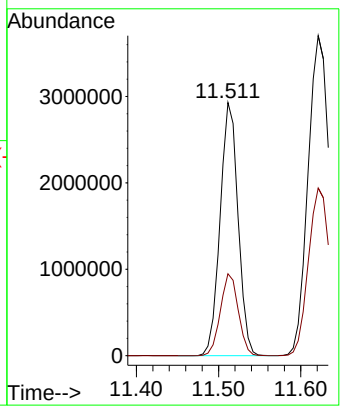




#67
Ethyl Benzene
Concen: 158.093 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 443866

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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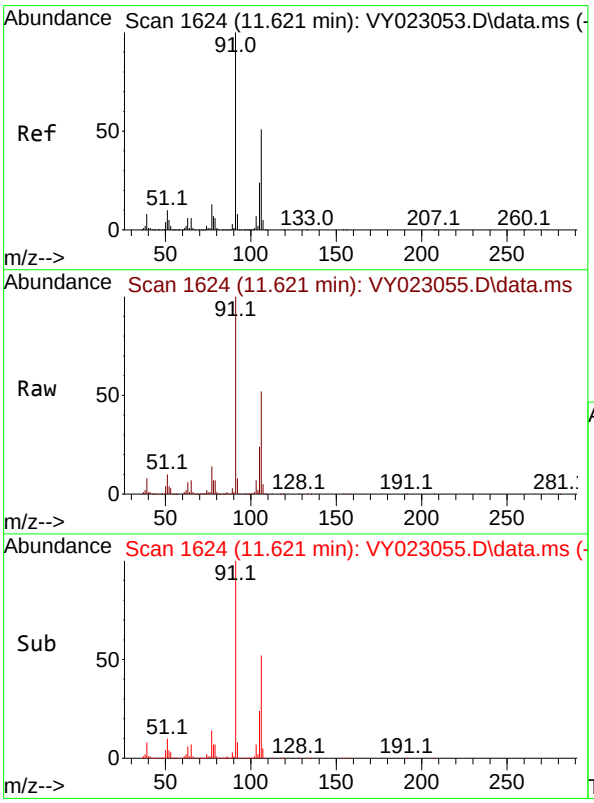
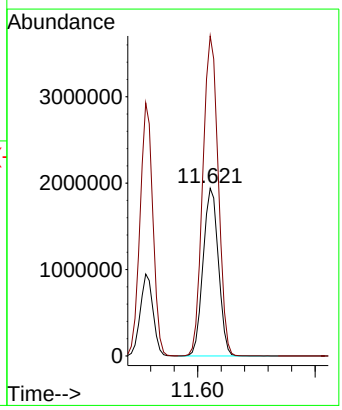
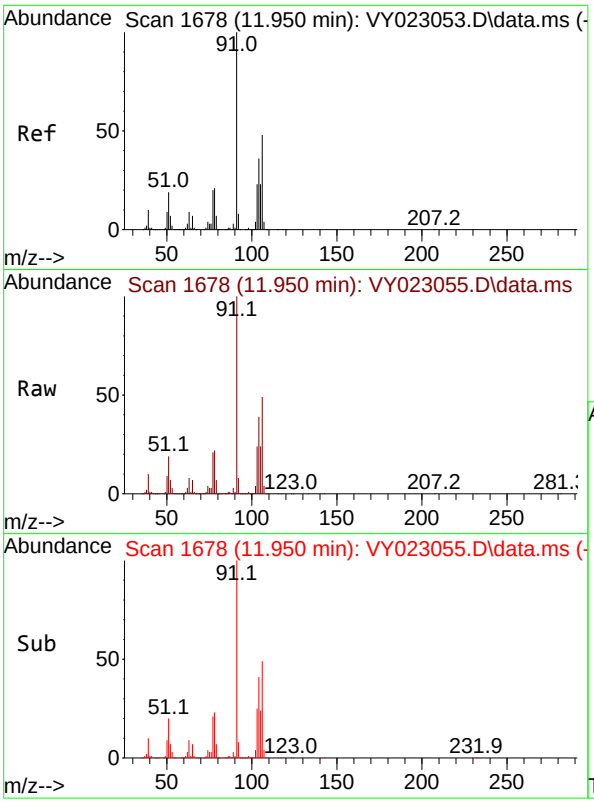


#68
m/p-Xylenes
Concen: 320.251 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 3511726

Ion	Ratio	Lower	Upper
106	100		
91	192.1	158.6	238.0

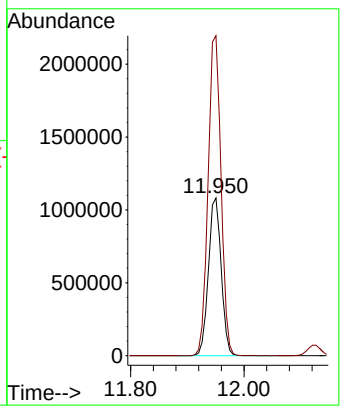




#69
o-Xylene
Concen: 163.941 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 168372

Ion	Ratio	Lower	Upper
106	100		
91	205.5	103.2	309.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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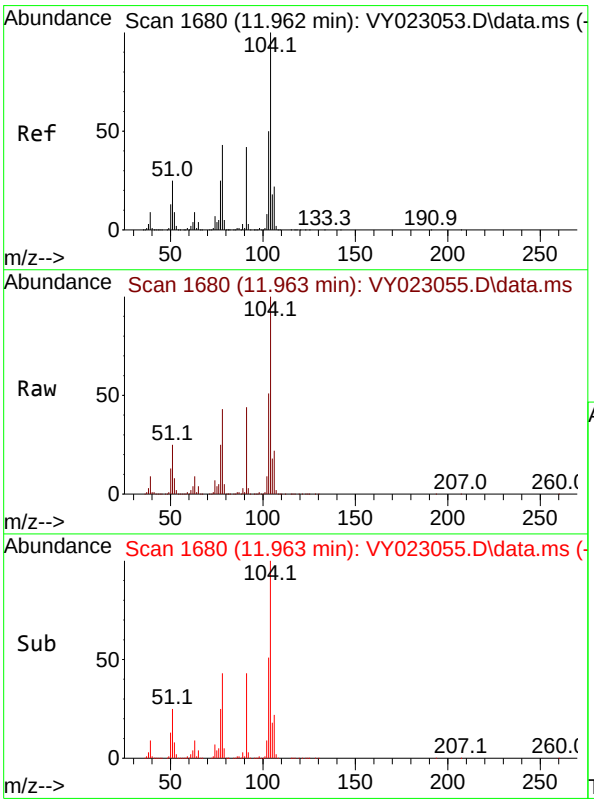
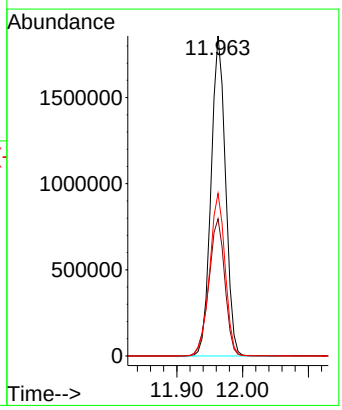
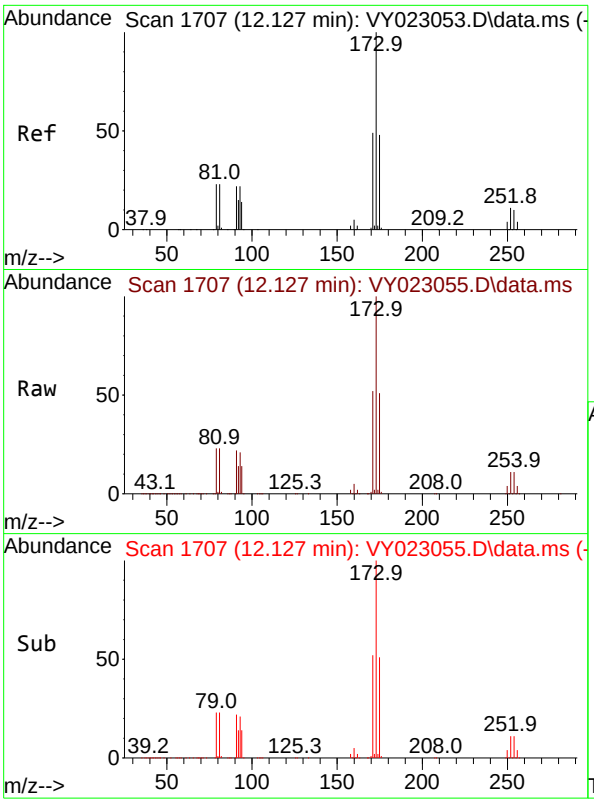


#70
Styrene
Concen: 169.475 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:104 Resp: 2846443

Ion	Ratio	Lower	Upper
104	100		
78	47.2	38.5	57.7
103	54.3	43.7	65.5

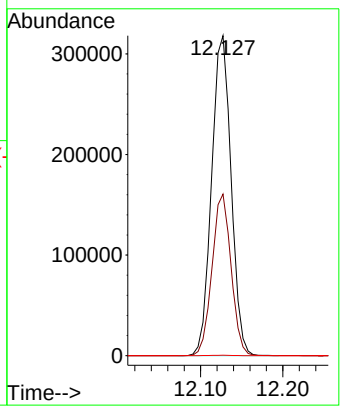




#71
Bromoform
Concen: 161.778 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:173 Resp: 52354

Ion	Ratio	Lower	Upper
173	100		
175	49.3	23.9	71.7
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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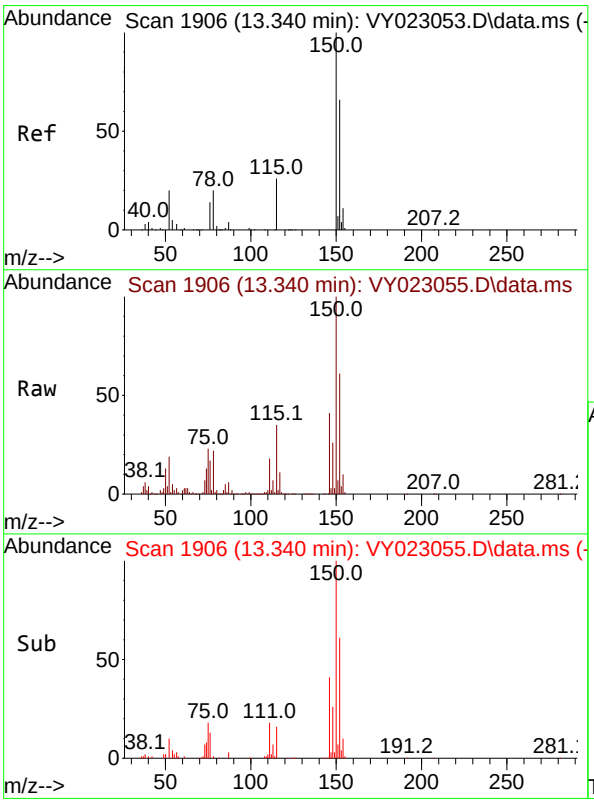
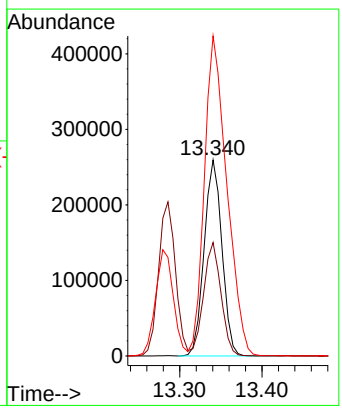
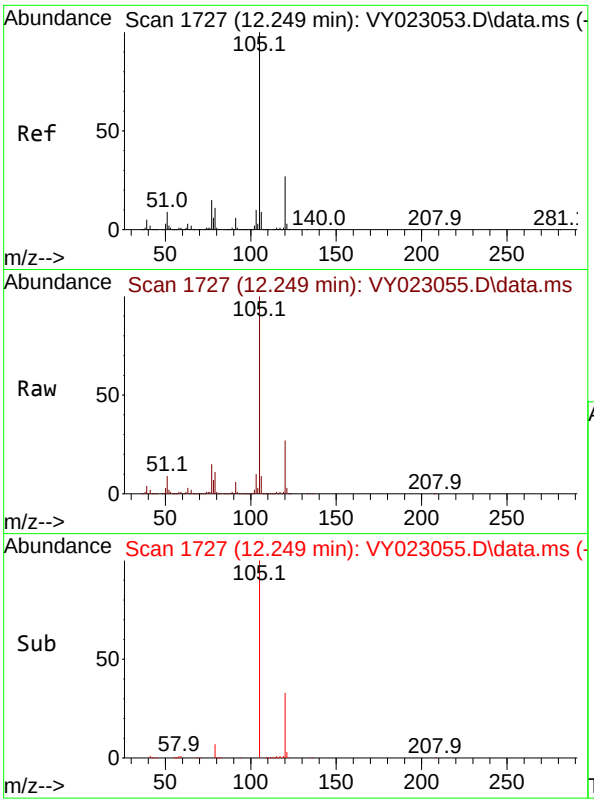


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:152 Resp: 389949

Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.2	84.6
150	205.8	0.0	348.0

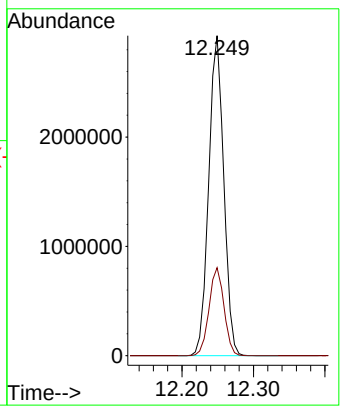




#73
Isopropylbenzene
Concen: 155.145 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 426994

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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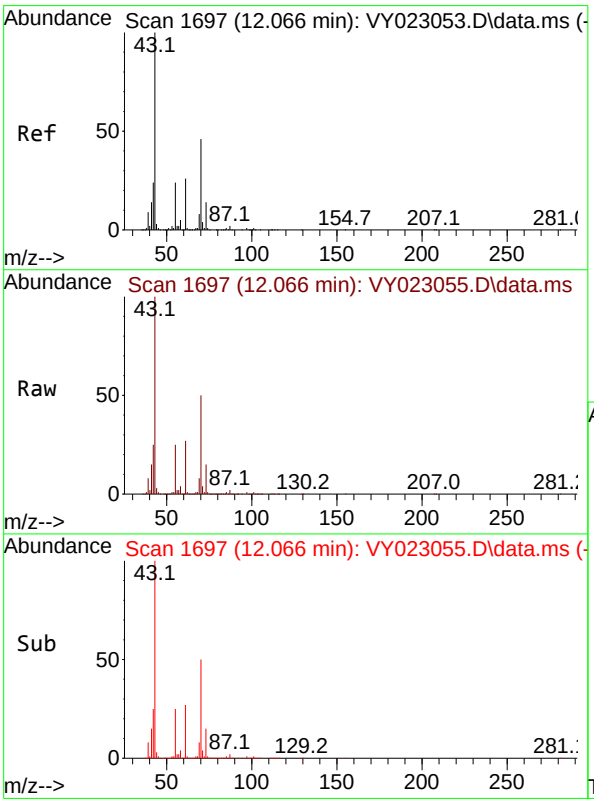
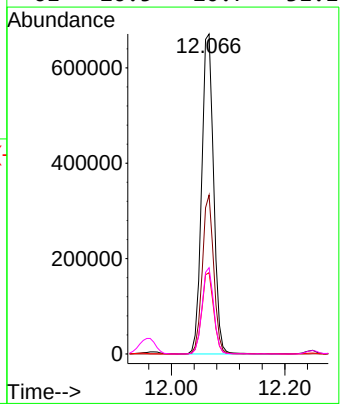
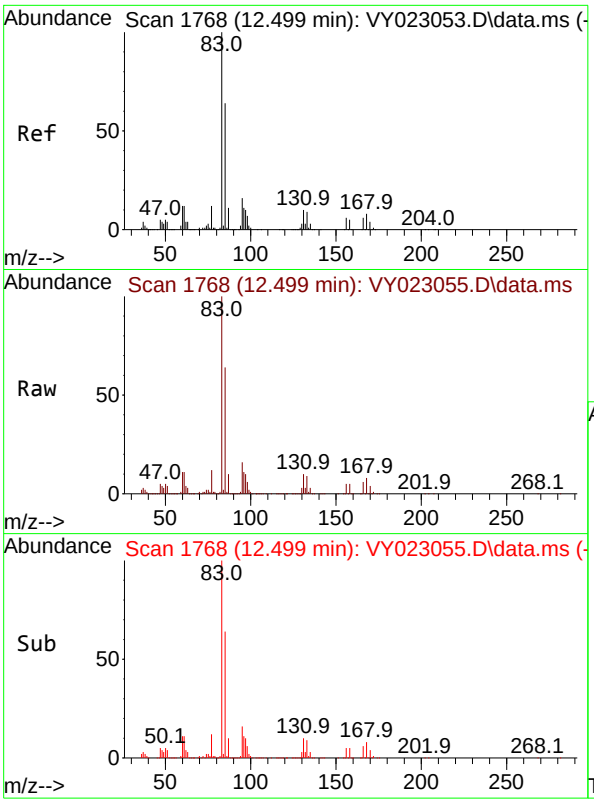


#74
N-amyl acetate
Concen: 168.265 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 982090

Ion	Ratio	Lower	Upper
43	100		
70	47.8	37.5	56.3
55	25.3	20.7	31.1
61	26.5	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 152.686 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 71752

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	63.7	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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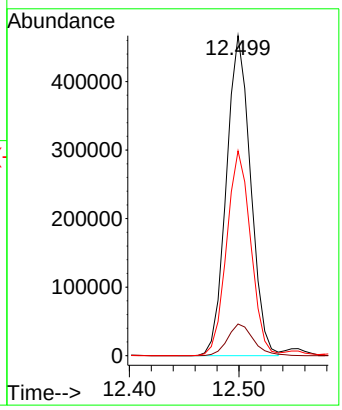
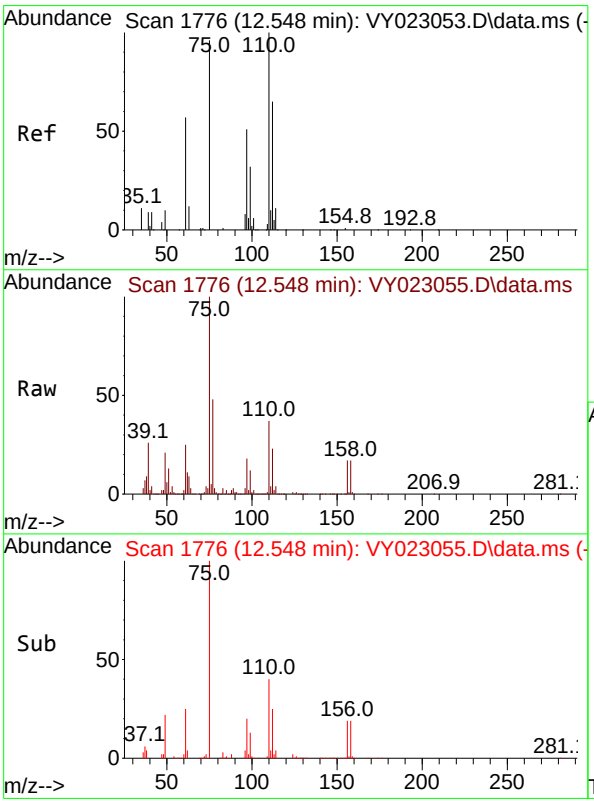
Supervised By :Semsettin Yesilyurt 08/14/2025

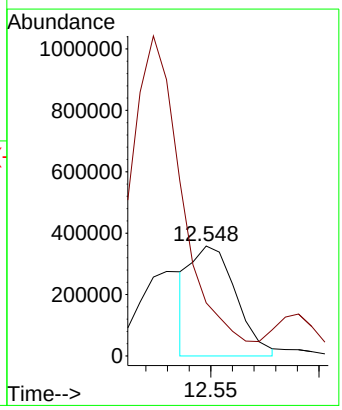


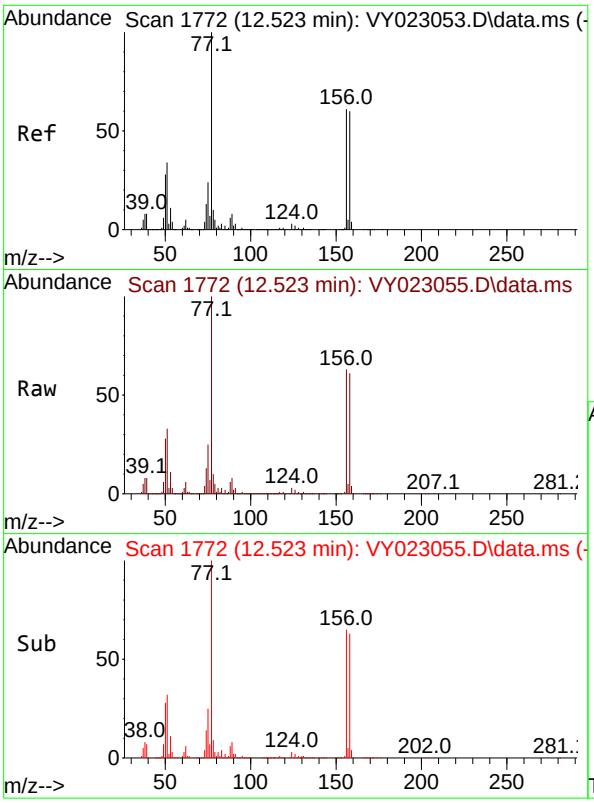


#76
1,2,3-Trichloropropane
Concen: 137.890 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 519276

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

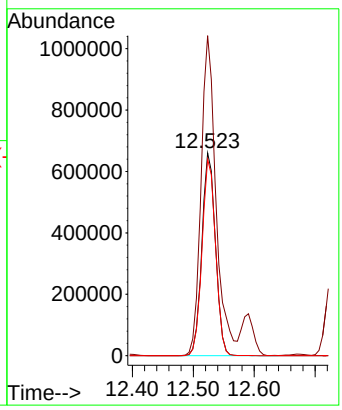




#77
Bromobenzene
Concen: 155.568 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:156 Resp: 102144

Ion	Ratio	Lower	Upper
156	100		
77	174.8	88.1	264.4
158	97.0	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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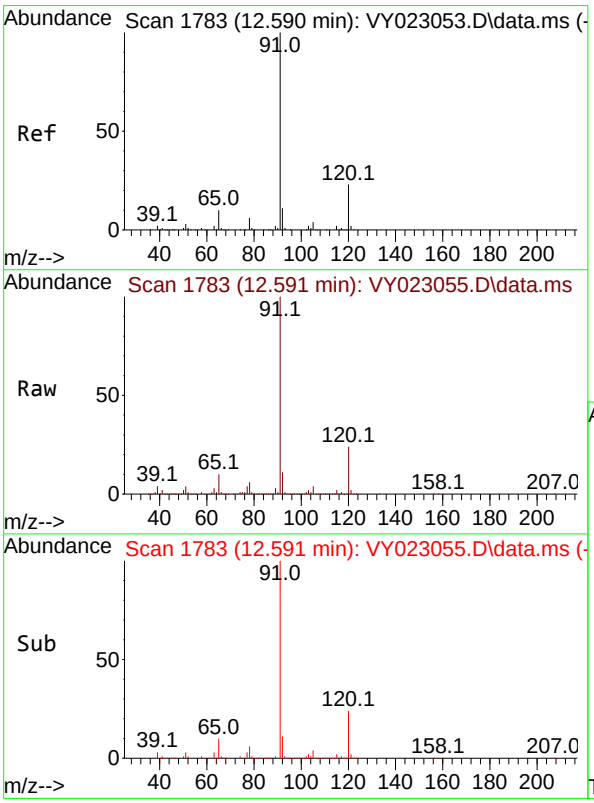
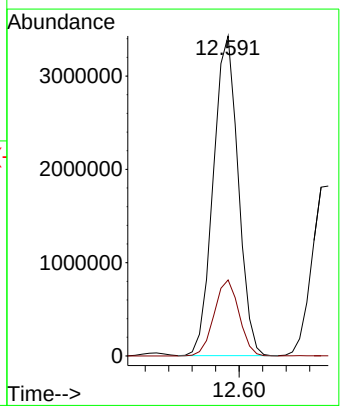
Supervised By :Semsettin Yesilyurt 08/14/2025

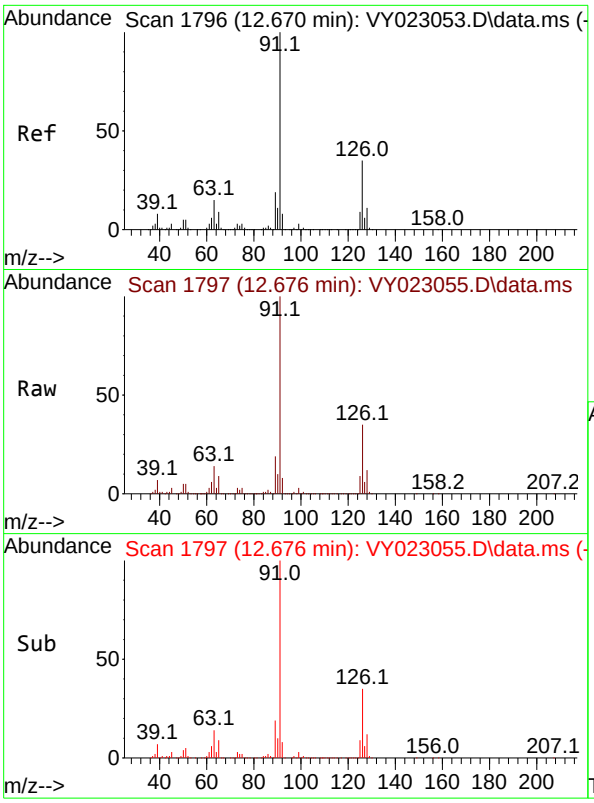


#78
n-propylbenzene
Concen: 154.058 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 5048012

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.5	34.5

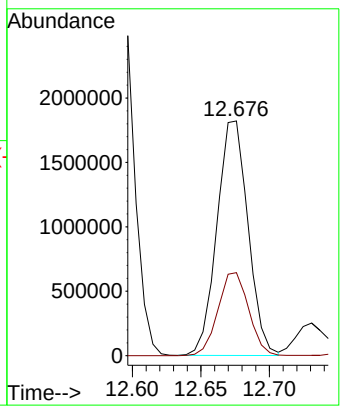




#79
2-Chlorotoluene
Concen: 153.331 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 287864

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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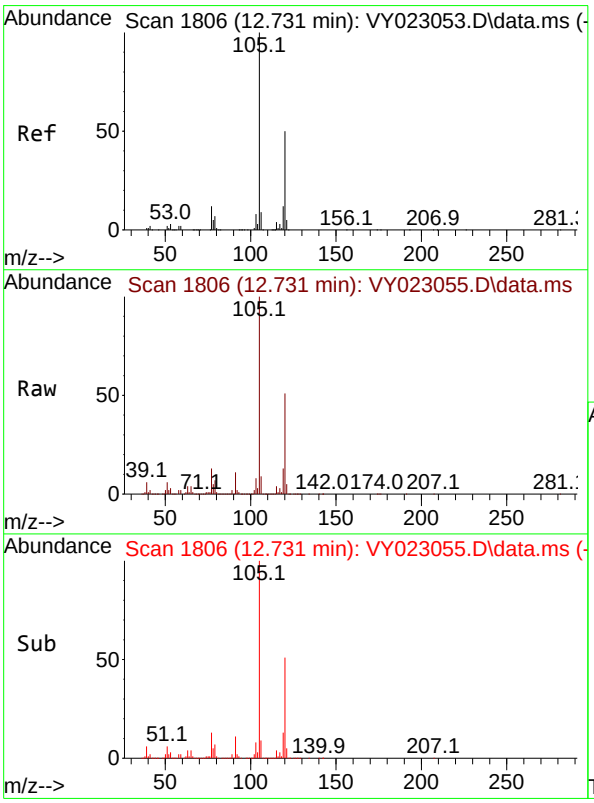
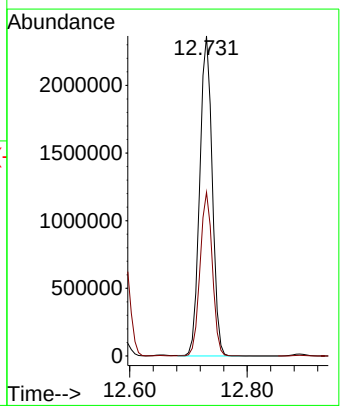
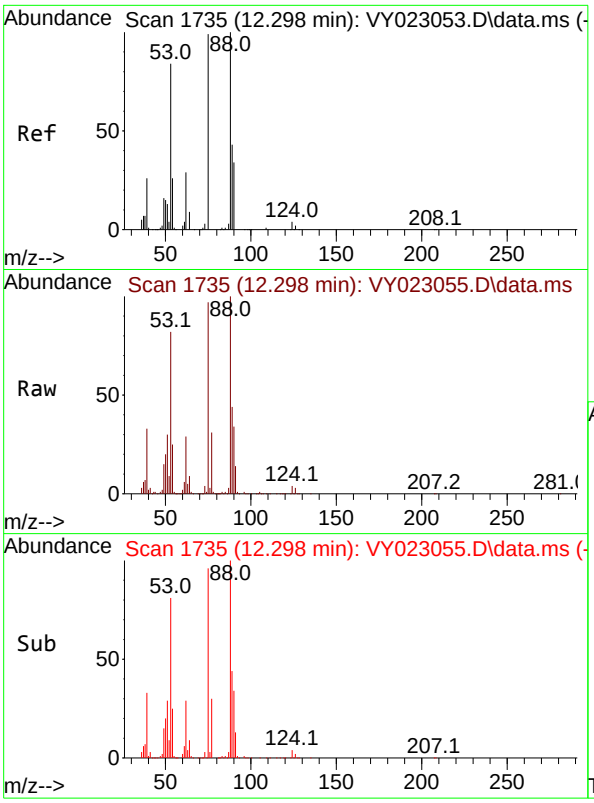


#80
1,3,5-Trimethylbenzene
Concen: 155.973 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3469329

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 158.203 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 24595

Ion	Ratio	Lower	Upper
75	100		
53	85.9	70.8	106.2
89	45.5	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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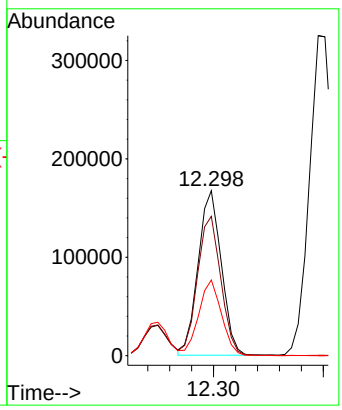
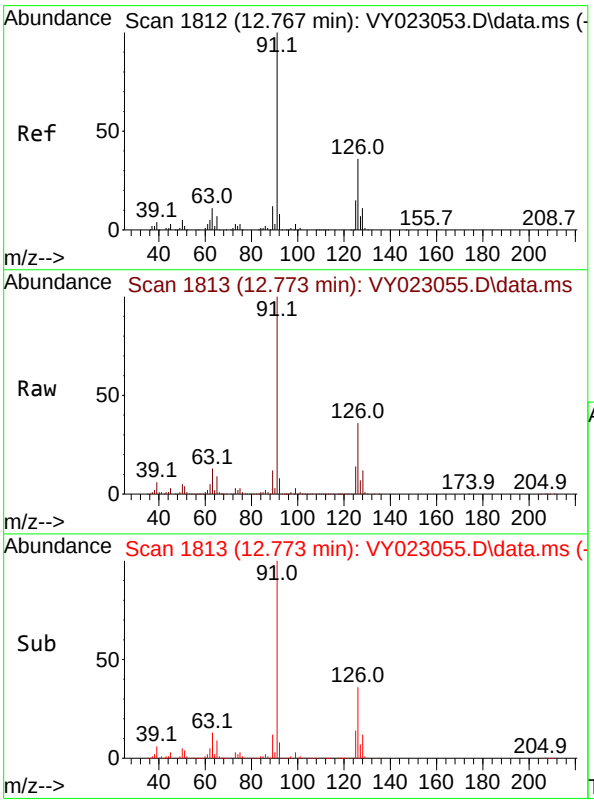
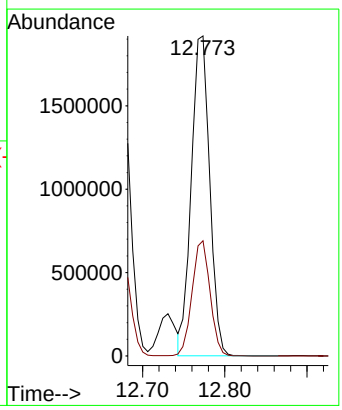


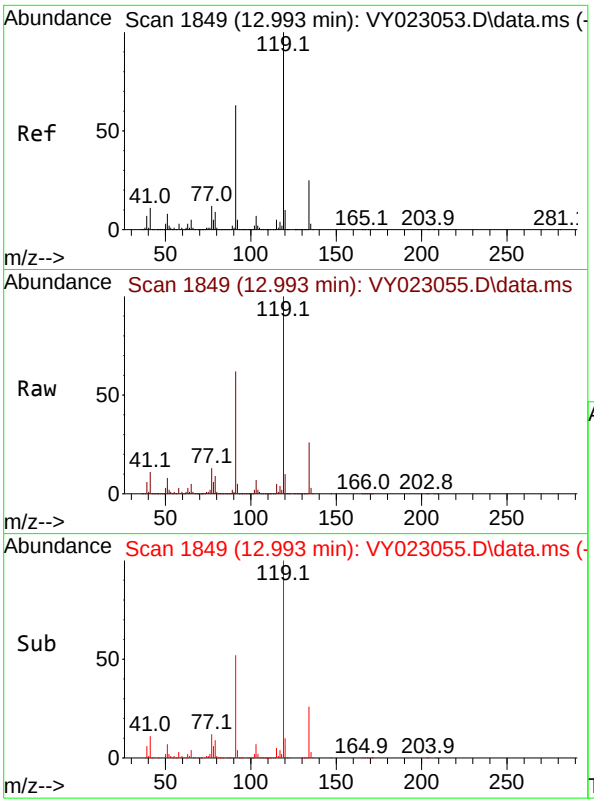


#82
4-Chlorotoluene
Concen: 153.063 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 2981042

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.3	52.0

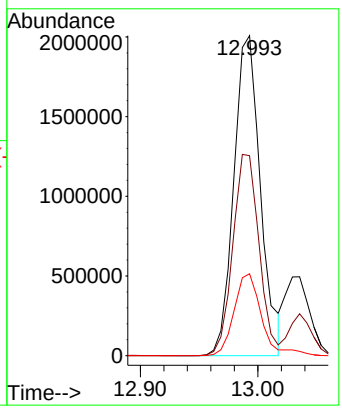




#83
tert-Butylbenzene
Concen: 157.371 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:119 Resp: 316147

Ion	Ratio	Lower	Upper
119	100		
91	62.0	31.6	94.8
134	26.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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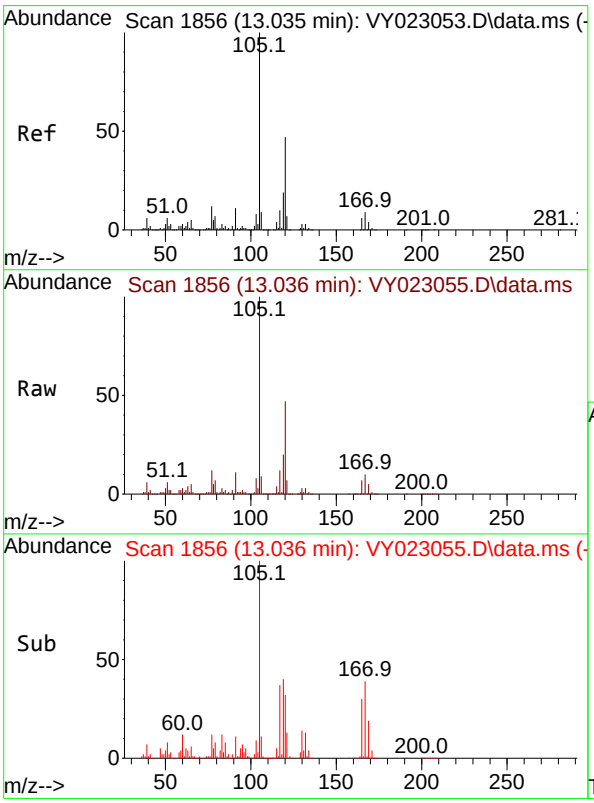
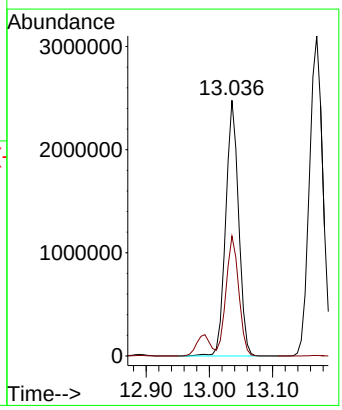
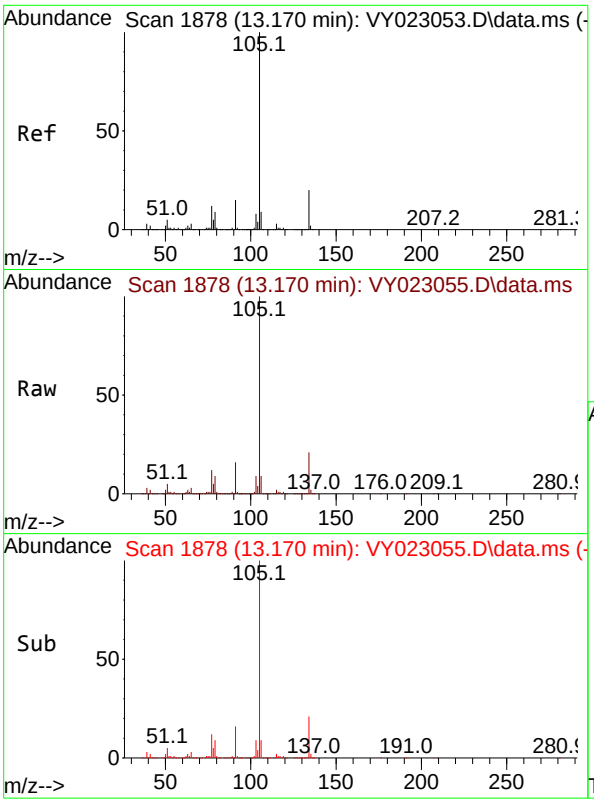


#84
1,2,4-Trimethylbenzene
Concen: 158.143 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3501626

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

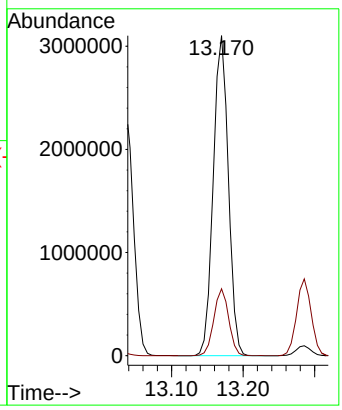




#85
sec-Butylbenzene
Concen: 153.897 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 454162

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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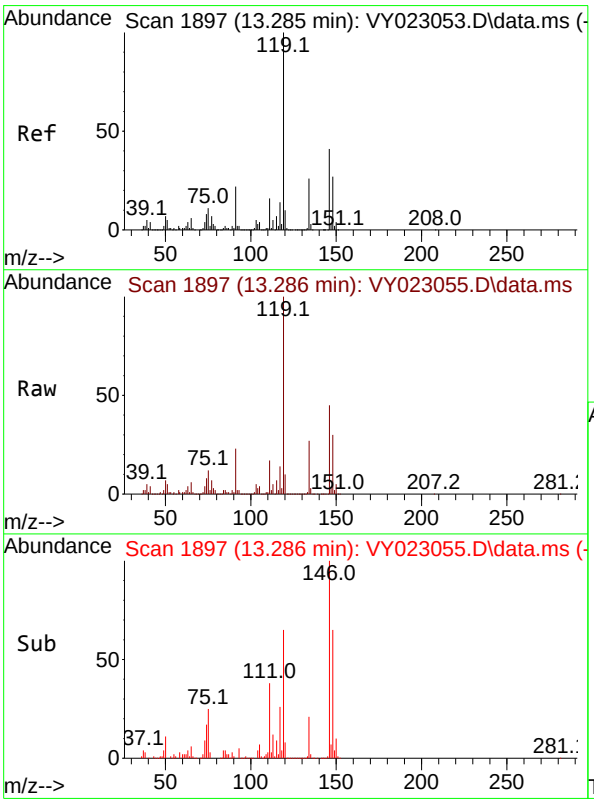
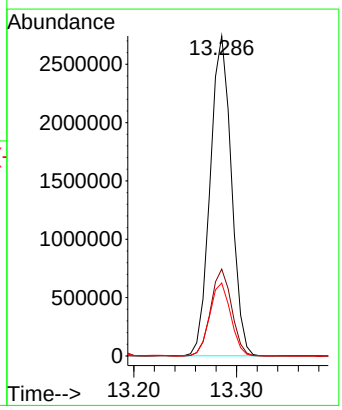
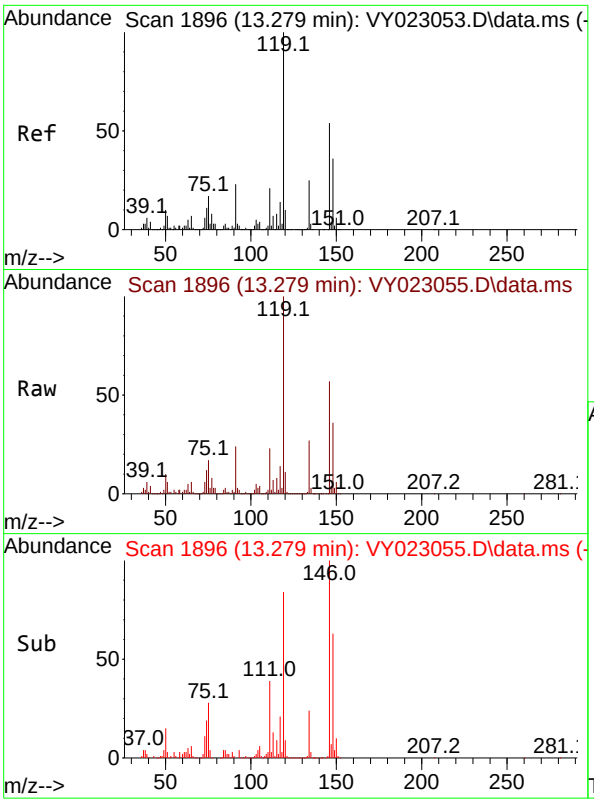


#86
p-Isopropyltoluene
Concen: 159.987 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:119 Resp: 3918969

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.2	39.6
91	22.6	11.3	33.8

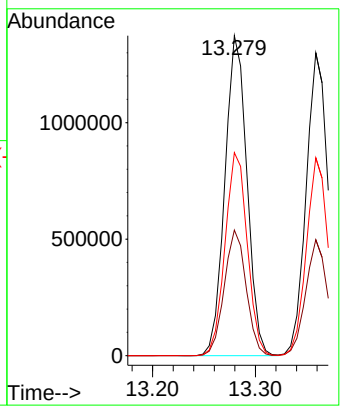




#87
1,3-Dichlorobenzene
Concen: 158.251 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 204906

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.6	58.7
148	63.8	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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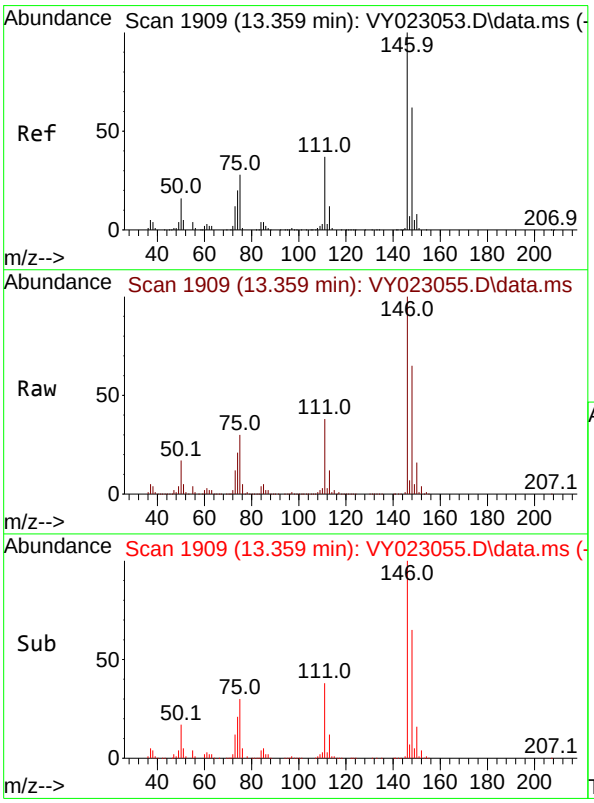
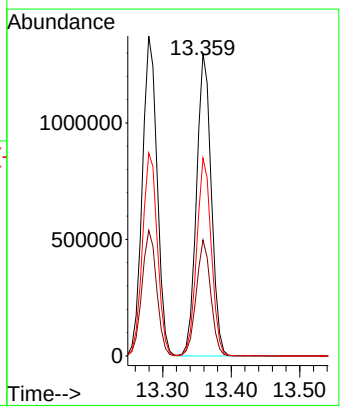
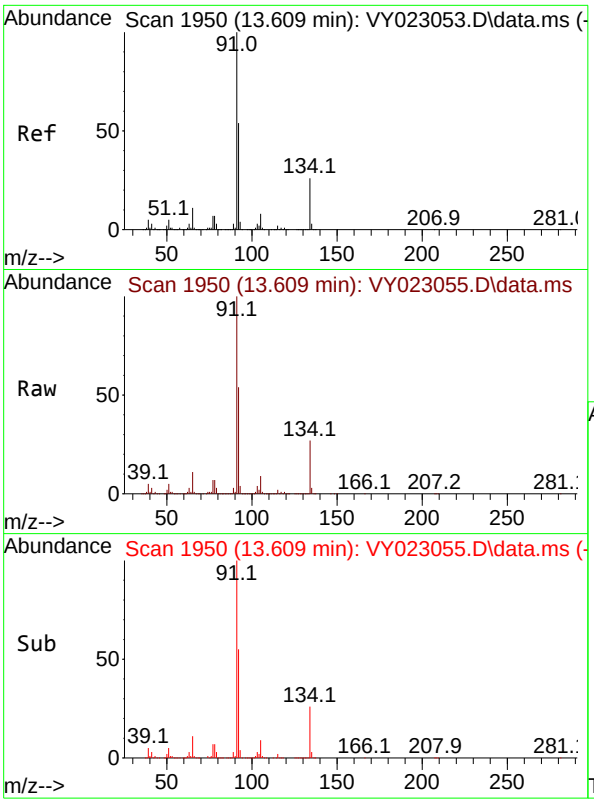


#88
1,4-Dichlorobenzene
Concen: 151.172 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 1941716

Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	64.7	31.6	94.7

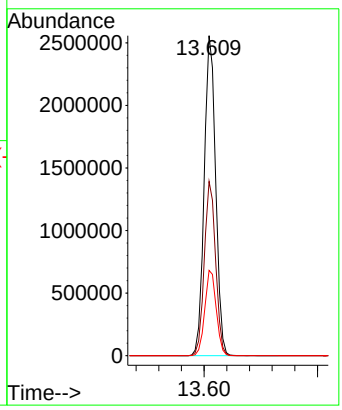




#89
n-Butylbenzene
Concen: 159.048 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 357827

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.7
134	26.7	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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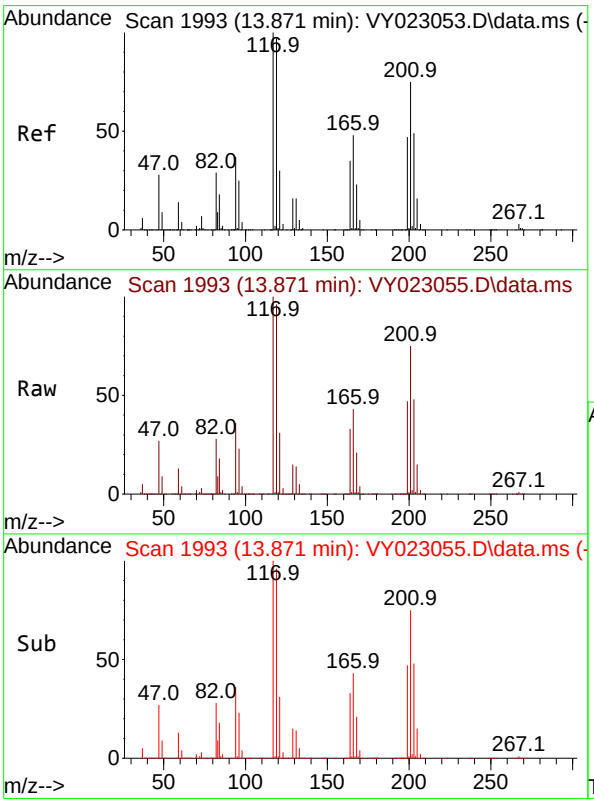
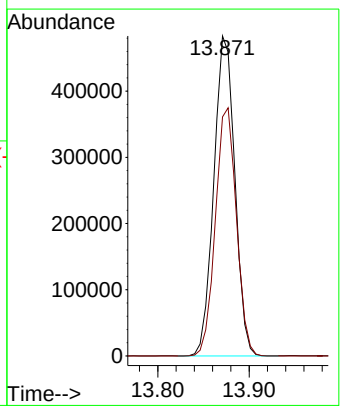
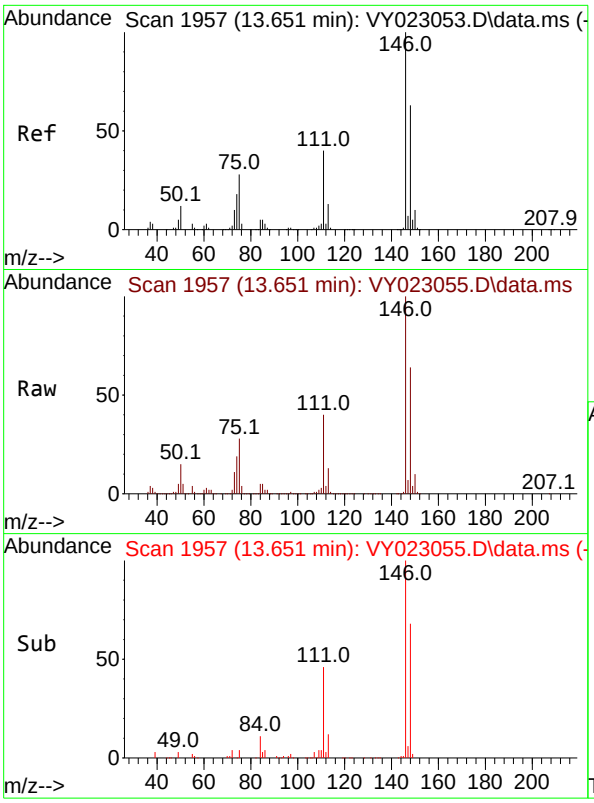


#90
Hexachloroethane
Concen: 154.073 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 772603

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1

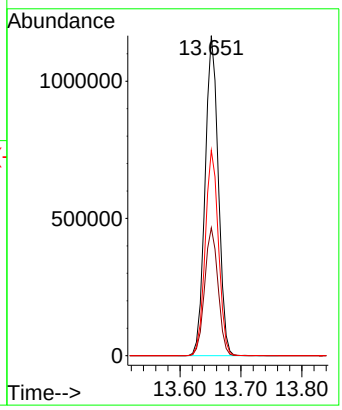




#91
1,2-Dichlorobenzene
Concen: 154.469 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 175410

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	60.8
148	64.2	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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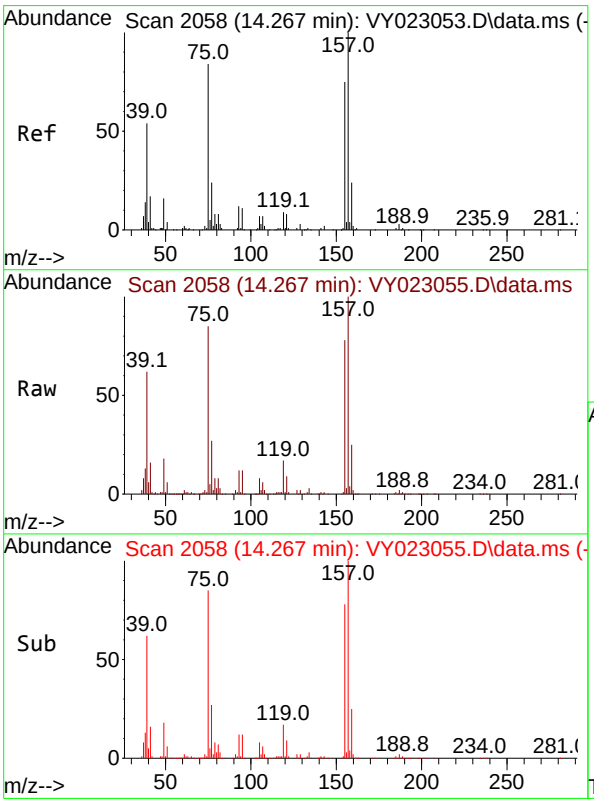
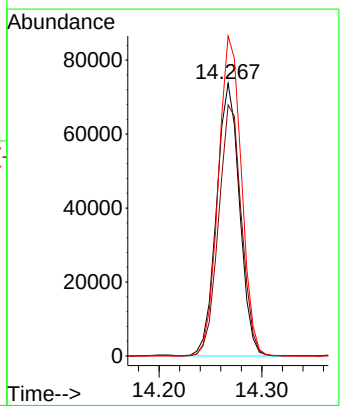
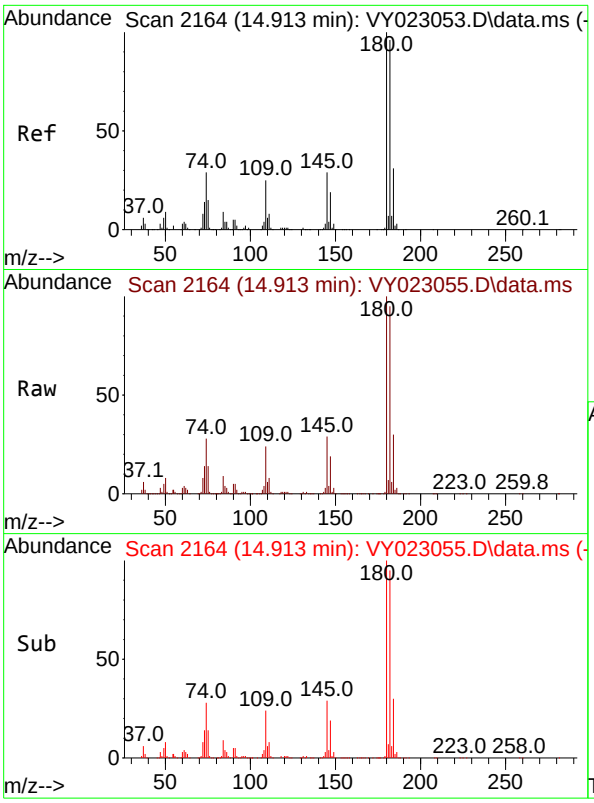


#92
1,2-Dibromo-3-Chloropropane
Concen: 156.498 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 114505

Ion	Ratio	Lower	Upper
75	100		
155	91.8	43.9	131.6
157	117.9	57.2	171.6

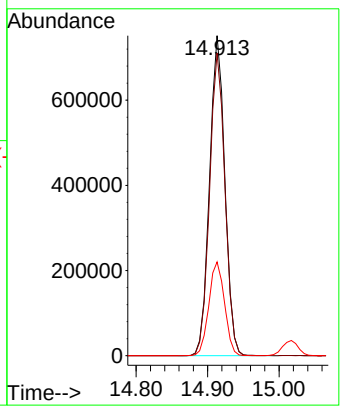




#93
1,2,4-Trichlorobenzene
Concen: 166.397 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:180 Resp: 111740

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.8	140.4
145	30.0	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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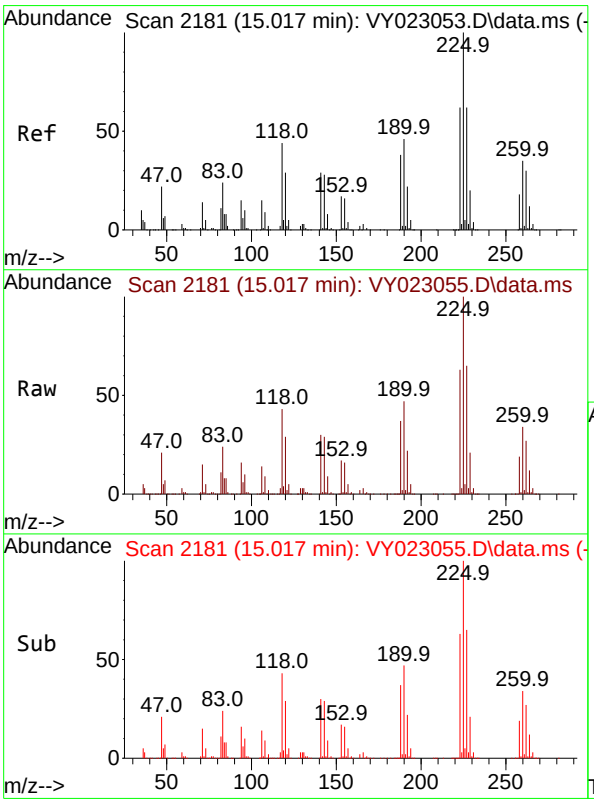
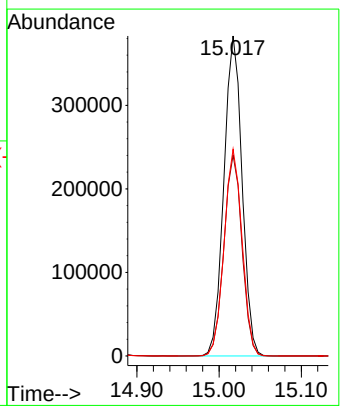
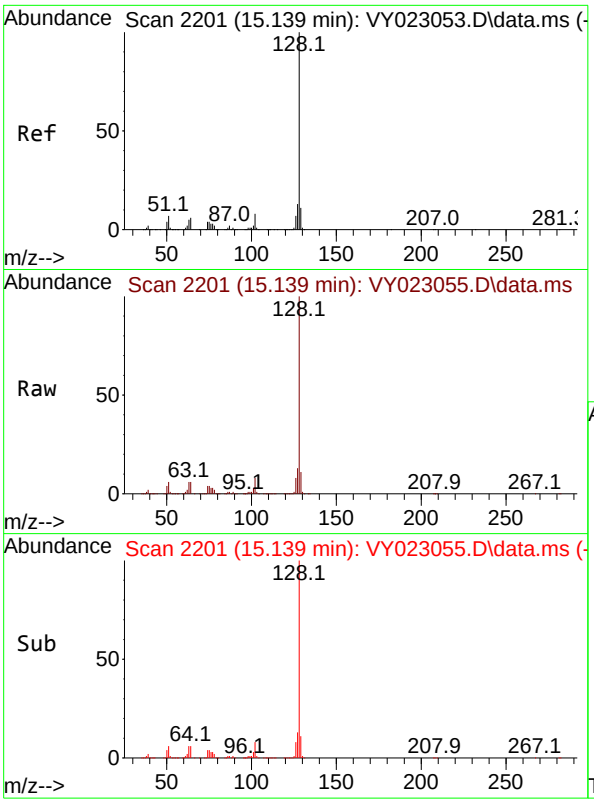


#94
Hexachlorobutadiene
Concen: 149.352 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:225 Resp: 589351

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.3	93.8
227	63.8	31.5	94.5

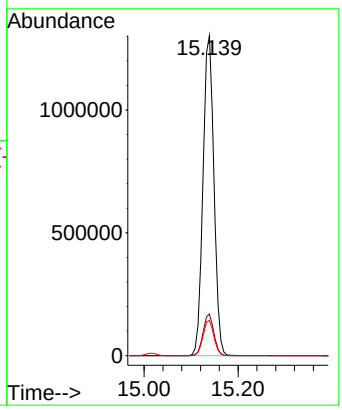




#95
Naphthalene
Concen: 182.954 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:128 Resp: 209498

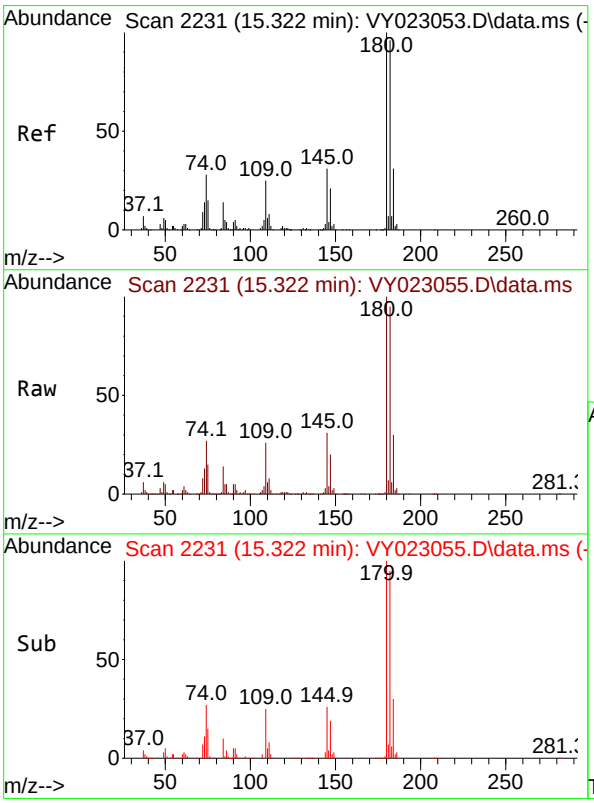
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.0	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

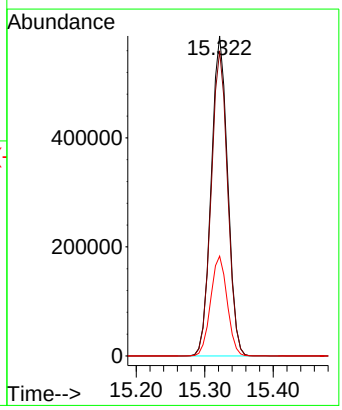
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 168.557 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:180 Resp: 975366

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.7
145	31.4	15.9	47.7



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	528657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	849851	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	756555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	376990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	252116	50.038	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.080%			
35) Dibromofluoromethane	7.628	113	255171	50.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.360%			
50) Toluene-d8	10.103	98	979510	49.306	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.402	95	329022	51.500	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	179421	41.579	ug/l	99
3) Chloromethane	2.068	50	340600	48.732	ug/l	100
4) Vinyl Chloride	2.202	62	416413	48.198	ug/l	99
5) Bromomethane	2.592	94	303147	46.983	ug/l	98
6) Chloroethane	2.733	64	281008	48.923	ug/l	99
7) Trichlorofluoromethane	3.050	101	493782	47.003	ug/l	100
8) Diethyl Ether	3.452	74	132818	47.787	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	247351	47.725	ug/l	99
10) Methyl Iodide	4.001	142	287126	51.340	ug/l	99
11) Tert butyl alcohol	4.860	59	84906	245.940	ug/l	98
12) 1,1-Dichloroethene	3.787	96	242931	47.686	ug/l	95
13) Acrolein	3.647	56	112246	222.008	ug/l	98
14) Allyl chloride	4.379	41	354691	47.317	ug/l	99
15) Acrylonitrile	5.055	53	274329	242.779	ug/l	99
16) Acetone	3.867	43	229985	210.695	ug/l	96
17) Carbon Disulfide	4.104	76	779852	46.948	ug/l	99
18) Methyl Acetate	4.385	43	168821	51.972	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	658713	49.899	ug/l	100
20) Methylene Chloride	4.610	84	283386	49.960	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	279182	48.765	ug/l	98
22) Diisopropyl ether	6.019	45	814622	50.011	ug/l	97
23) Vinyl Acetate	5.958	43	2182924	242.360	ug/l	100
24) 1,1-Dichloroethane	5.915	63	483509	48.551	ug/l	100
25) 2-Butanone	6.890	43	341490	230.028	ug/l	99
26) 2,2-Dichloropropane	6.884	77	390777	45.475	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	322451	48.720	ug/l	99
28) Bromochloromethane	7.238	49	198640	50.275	ug/l	100
29) Tetrahydrofuran	7.262	42	227680	247.420	ug/l	100
30) Chloroform	7.421	83	497627	48.450	ug/l	97
31) Cyclohexane	7.695	56	436638	46.526	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	445943	48.933	ug/l	100
36) 1,1-Dichloropropene	7.829	75	364210	48.193	ug/l	99
37) Ethyl Acetate	6.982	43	157530	49.621	ug/l	99
38) Carbon Tetrachloride	7.817	117	394245	48.030	ug/l	99
39) Methylcyclohexane	9.103	83	493867	49.625	ug/l	98
40) Benzene	8.073	78	1128023	48.428	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	88437	48.269	ug/l		99
42) 1,2-Dichloroethane	8.152	62	291766	48.162	ug/l		100
43) Isopropyl Acetate	8.195	43	315013	49.094	ug/l		98
44) Trichloroethene	8.860	130	287745	47.803	ug/l		95
45) 1,2-Dichloropropane	9.140	63	262408	48.961	ug/l		98
46) Dibromomethane	9.225	93	149745	48.679	ug/l		99
47) Bromodichloromethane	9.420	83	391522	49.463	ug/l		98
48) Methyl methacrylate	9.219	41	155118	50.520	ug/l		99
49) 1,4-Dioxane	9.225	88	35050	971.749	ug/l		98
51) 4-Methyl-2-Pentanone	9.993	43	823949	248.943	ug/l		99
52) Toluene	10.164	92	724356	48.963	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	356228	49.699	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	415017	48.965	ug/l		97
55) 1,1,2-Trichloroethane	10.567	97	201146	48.867	ug/l		98
56) Ethyl methacrylate	10.432	69	267458	50.779	ug/l		99
57) 1,3-Dichloropropane	10.713	76	343649	49.228	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	678865	273.240	ug/l		100
59) 2-Hexanone	10.756	43	551743	244.812	ug/l		99
60) Dibromochloromethane	10.908	129	270536	49.810	ug/l		99
61) 1,2-Dibromoethane	11.012	107	190334	49.197	ug/l		100
64) Tetrachloroethene	10.640	164	307456	45.512	ug/l		98
65) Chlorobenzene	11.438	112	787799	48.275	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	270360	48.815	ug/l		99
67) Ethyl Benzene	11.512	91	1380648	49.163	ug/l		100
68) m/p-Xylenes	11.621	106	1080541	98.515	ug/l		99
69) o-Xylene	11.950	106	509991	49.645	ug/l		99
70) Styrene	11.963	104	852310	50.733	ug/l		99
71) Bromoform	12.127	173	157073	48.525	ug/l	#	98
73) Isopropylbenzene	12.249	105	1327070	49.876	ug/l		100
74) N-amyl acetate	12.066	43	285118	50.529	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	224206	49.350	ug/l		98
76) 1,2,3-Trichloropropane	12.548	75	167859m	46.136	ug/l		
77) Bromobenzene	12.524	156	311065	49.004	ug/l		99
78) n-propylbenzene	12.591	91	1610911	50.853	ug/l		100
79) 2-Chlorotoluene	12.676	91	905657	49.898	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1094902	50.916	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	74263	49.409	ug/l		98
82) 4-Chlorotoluene	12.774	91	932114	49.505	ug/l		100
83) tert-Butylbenzene	12.993	119	979692	50.443	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	1092616	51.042	ug/l		100
85) sec-Butylbenzene	13.170	105	1459437	51.154	ug/l		100
86) p-Isopropyltoluene	13.286	119	1222900	51.639	ug/l		100
87) 1,3-Dichlorobenzene	13.280	146	621371	49.639	ug/l		98
88) 1,4-Dichlorobenzene	13.359	146	602429	48.514	ug/l		99
89) n-Butylbenzene	13.609	91	1122189	51.594	ug/l		100
90) Hexachloroethane	13.871	117	245386	50.617	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	540506	49.234	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35428	50.085	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	320472	49.363	ug/l		99
94) Hexachlorobutadiene	15.017	225	184430	48.344	ug/l		99
95) Naphthalene	15.139	128	571480	51.623	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	272638	48.735	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

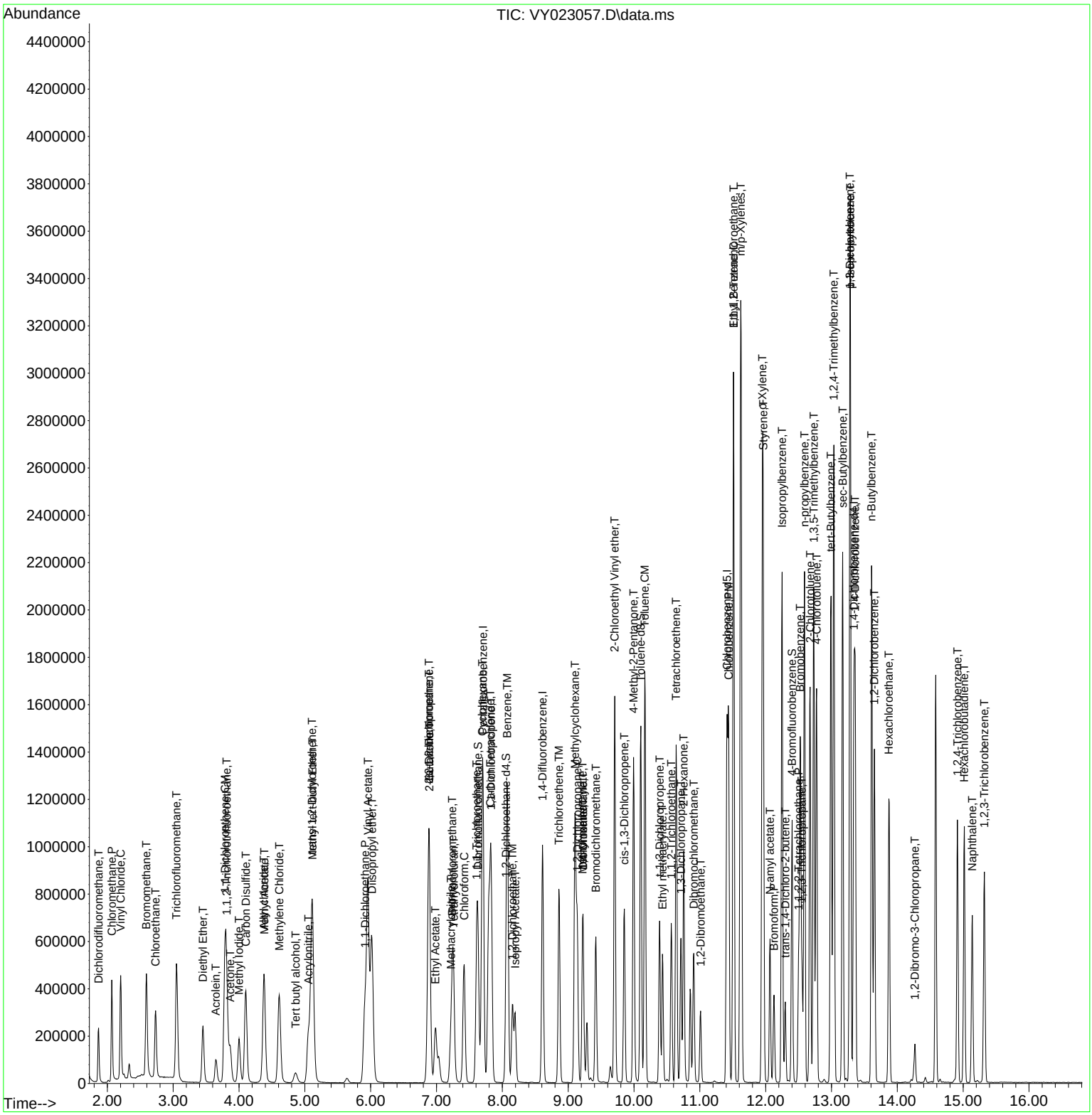
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

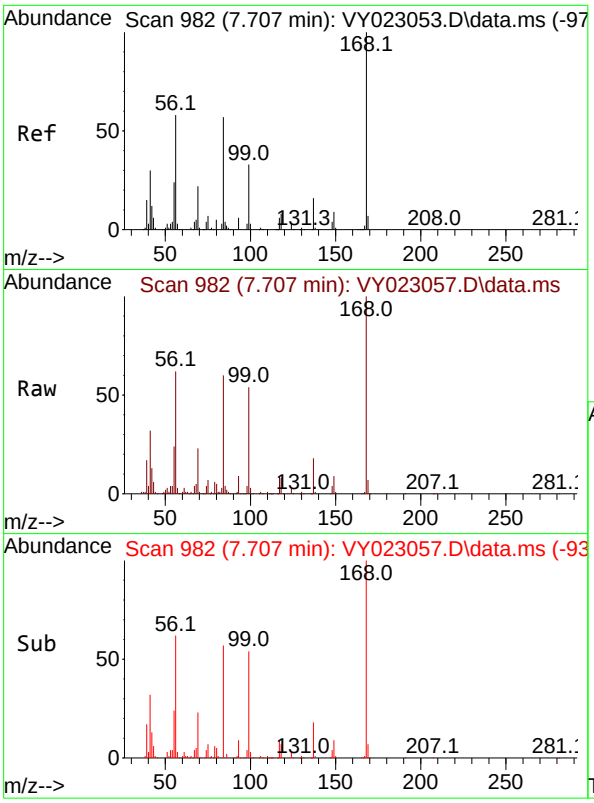
Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

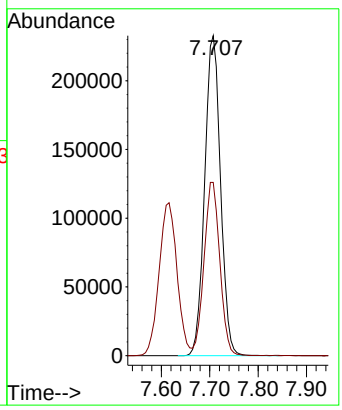




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:168 Resp: 52865

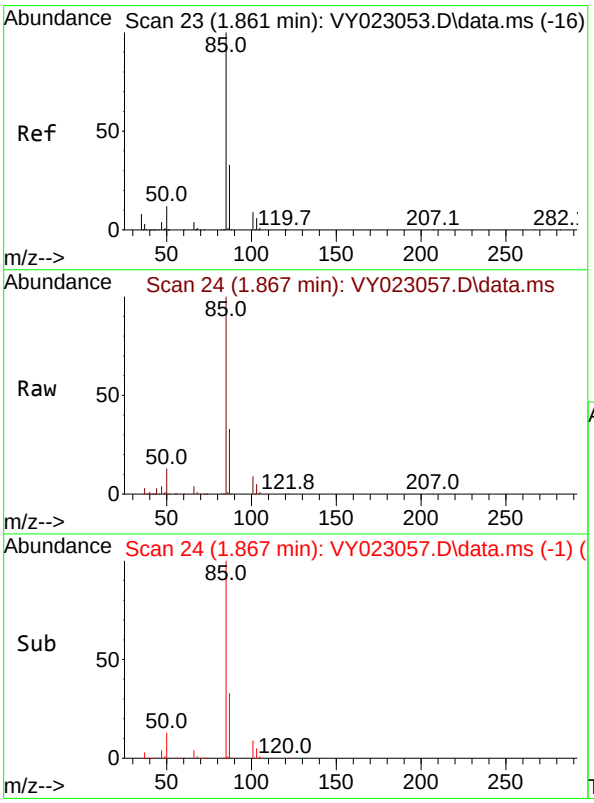
Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

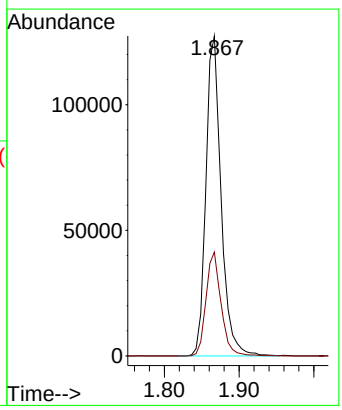
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

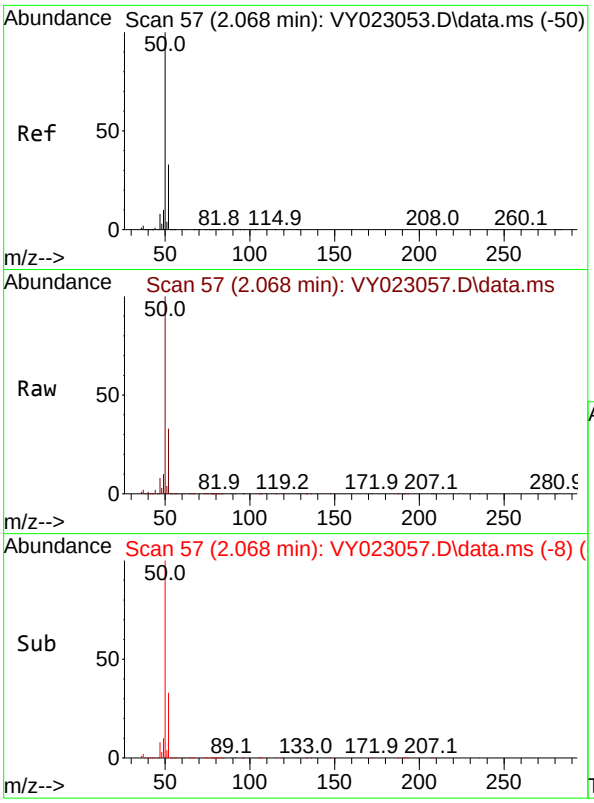


#2
Dichlorodifluoromethane
Concen: 41.579 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 85 Resp: 179421

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.6	49.8





#3
Chloromethane
Concen: 48.732 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

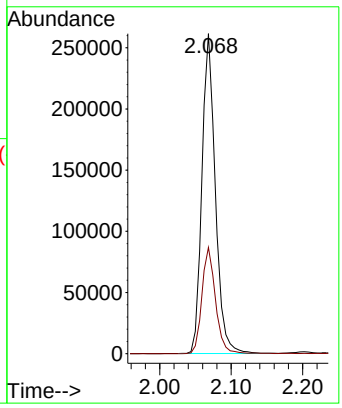
Tgt Ion: 50 Resp: 34060

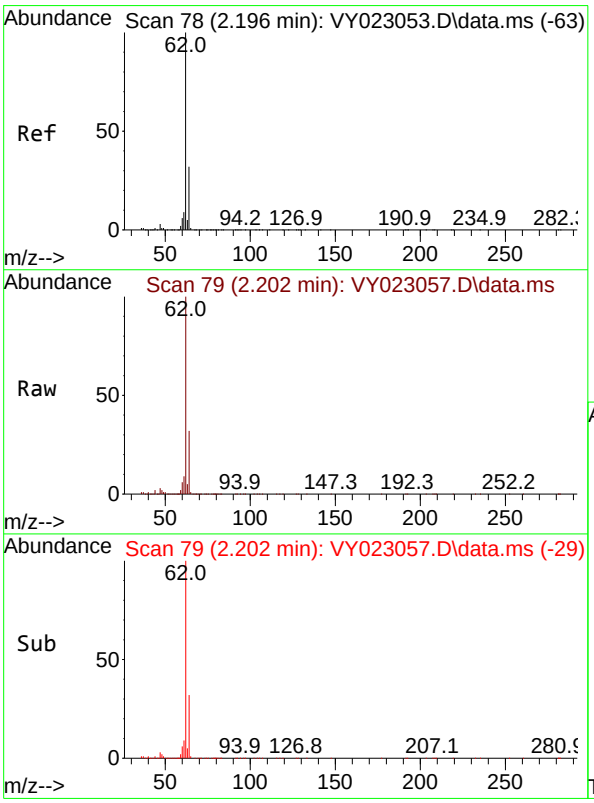
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.7	40.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

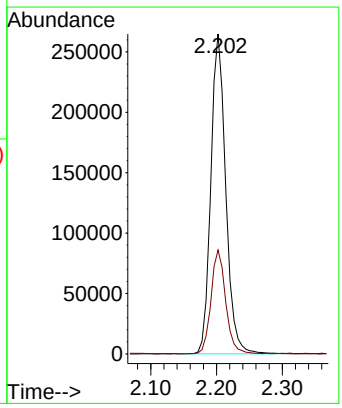


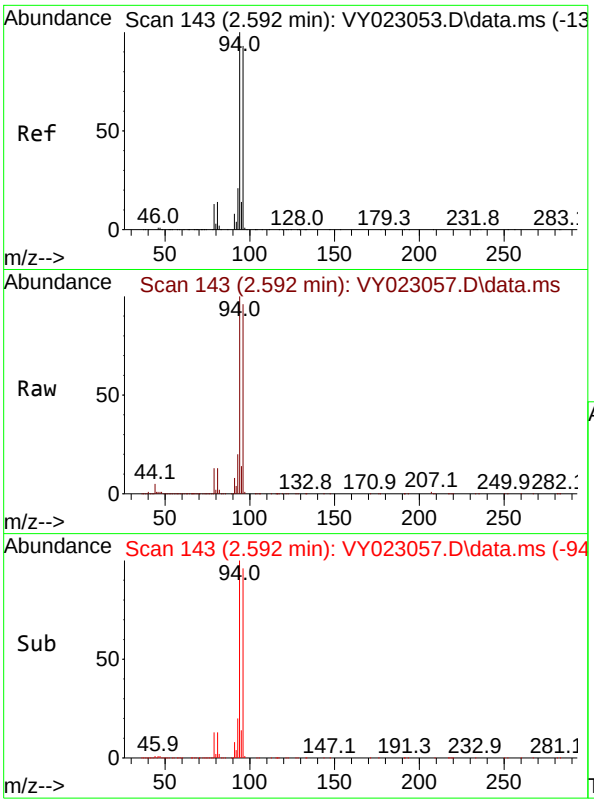


#4
Vinyl Chloride
Concen: 48.198 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 416413

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0

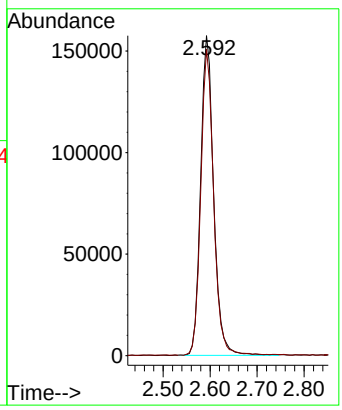




#5
Bromomethane
Concen: 46.983 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 94 Resp: 30314

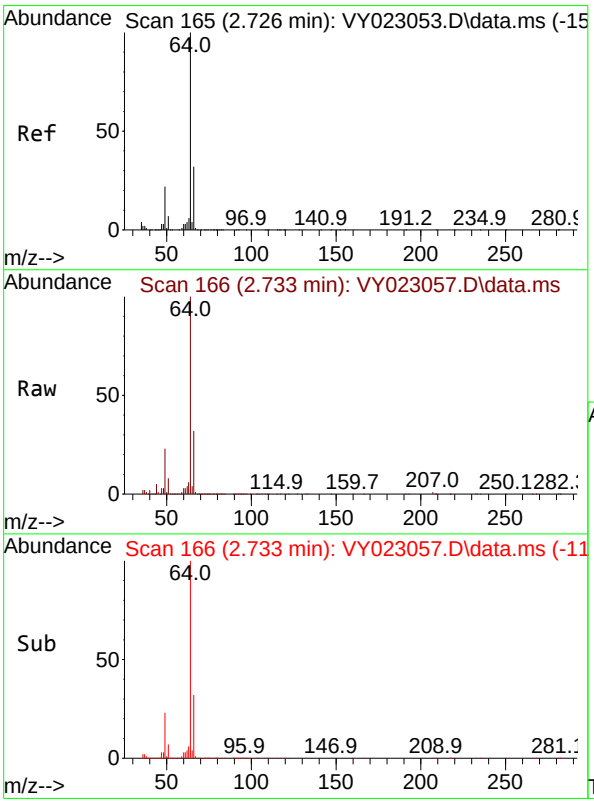
Ion	Ratio	Lower	Upper
94	100		
96	95.7	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

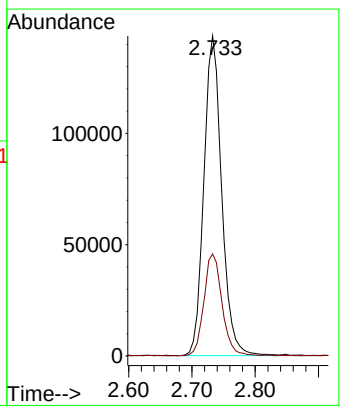
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

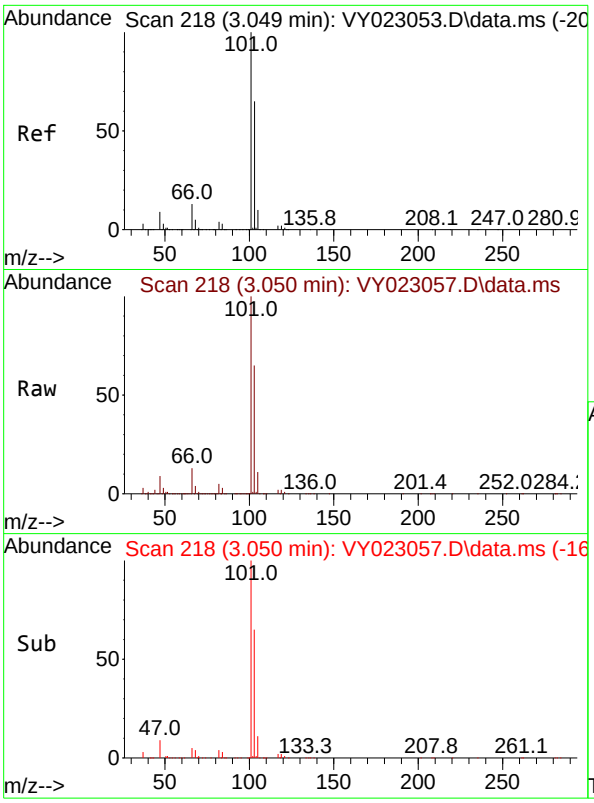


#6
Chloroethane
Concen: 48.923 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 64 Resp: 281008

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.8	38.6

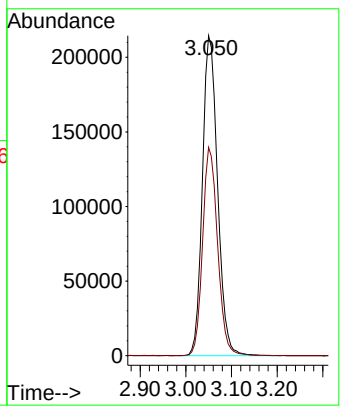




#7
Trichlorofluoromethane
Concen: 47.003 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:101 Resp: 49378

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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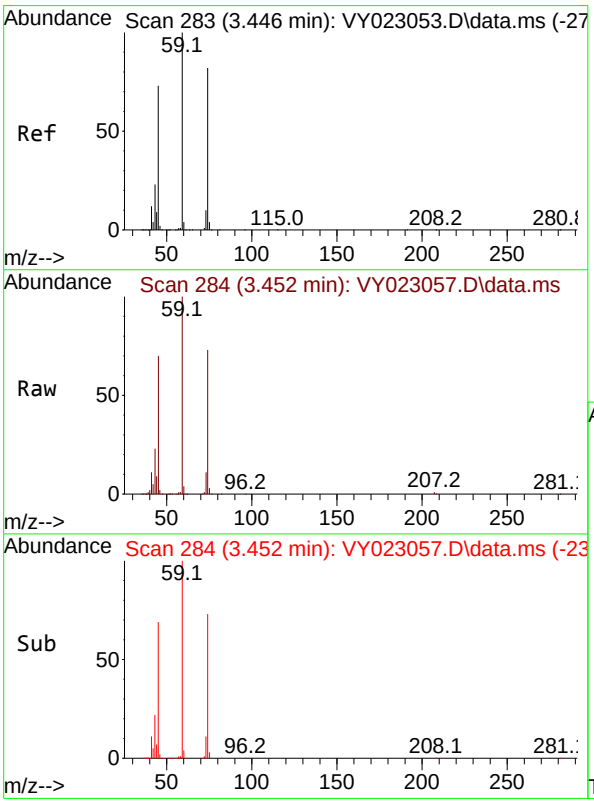
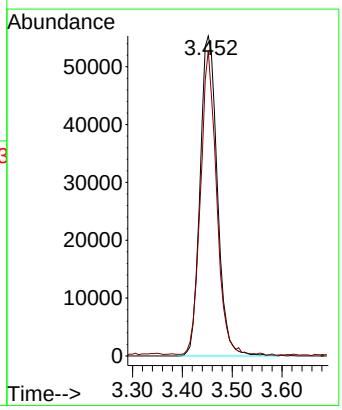
Supervised By :Semsettin Yesilyurt 08/14/2025

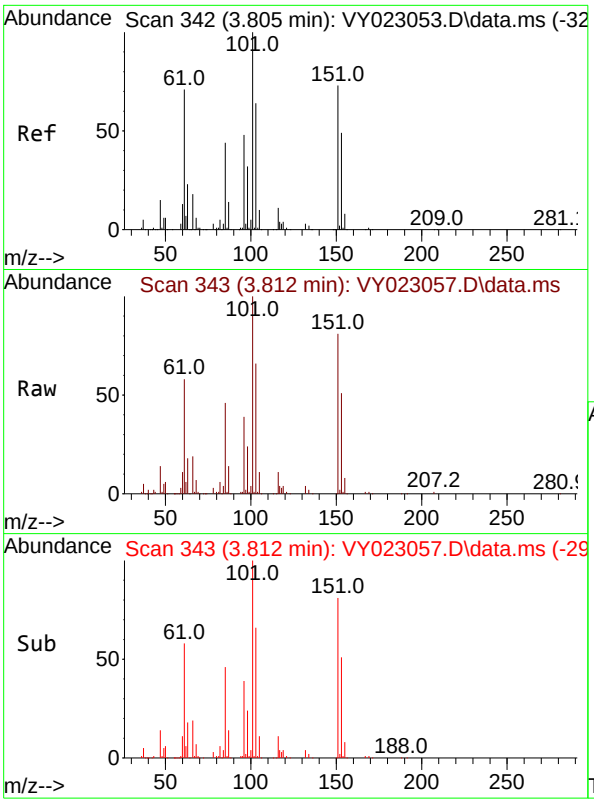


#8
Diethyl Ether
Concen: 47.787 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 74 Resp: 132818

Ion	Ratio	Lower	Upper
74	100		
45	88.1	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.725 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:101 Resp: 24735

Ion	Ratio	Lower	Upper
101	100		
85	44.9	36.3	54.5
151	77.9	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
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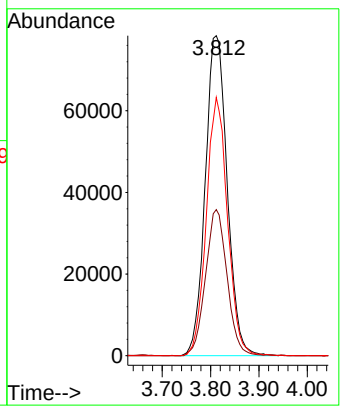
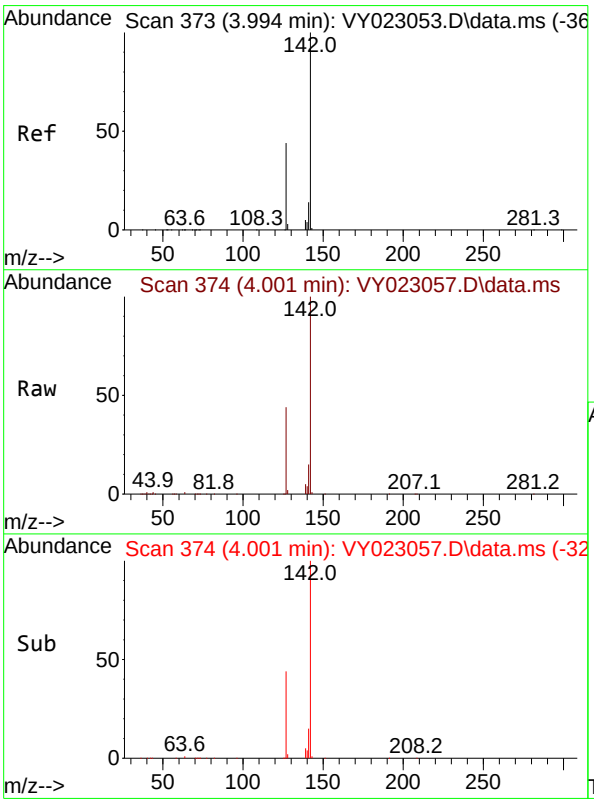
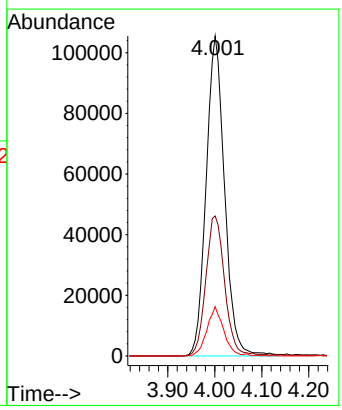


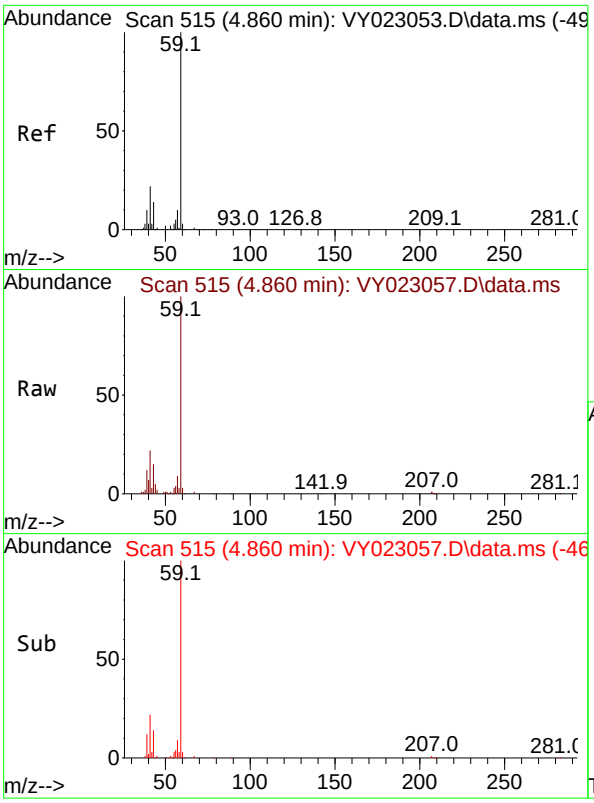


#10
Methyl Iodide
Concen: 51.340 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:142 Resp: 287126

Ion	Ratio	Lower	Upper
142	100		
127	44.8	34.9	52.3
141	14.1	11.3	16.9

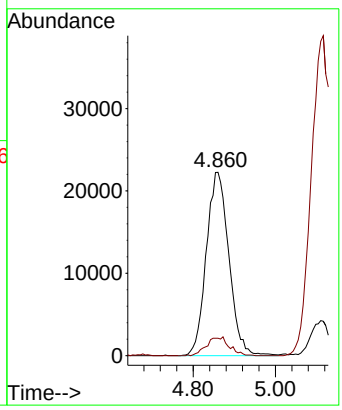




#11
Tert butyl alcohol
Concen: 245.940 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 59 Resp: 8490

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	13.0



Instrument :
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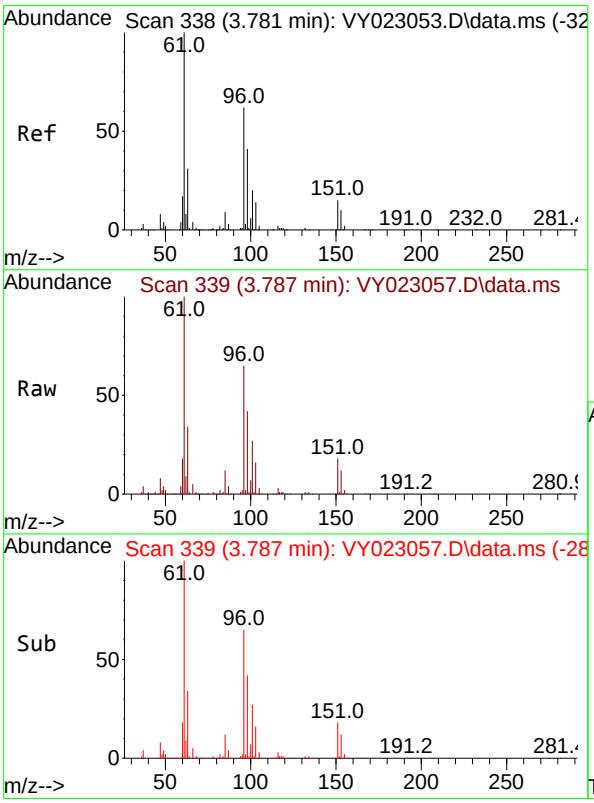
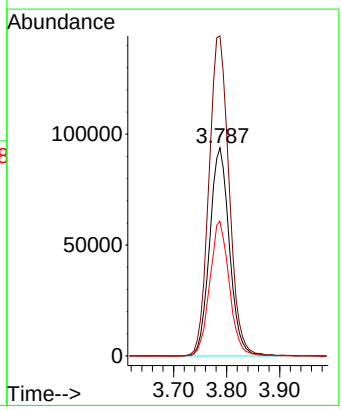
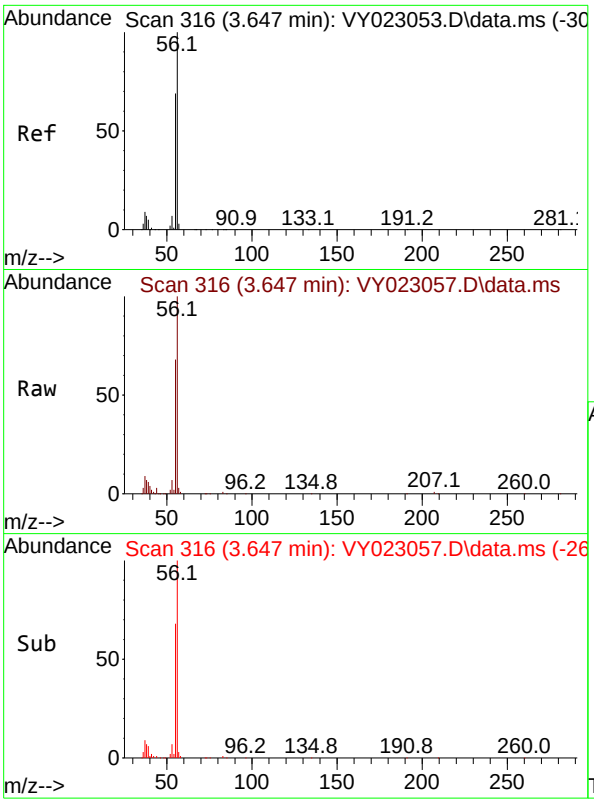


#12
1,1-Dichloroethene
Concen: 47.686 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 242931

Ion	Ratio	Lower	Upper
96	100		
61	153.7	129.4	194.2
98	64.6	52.8	79.2

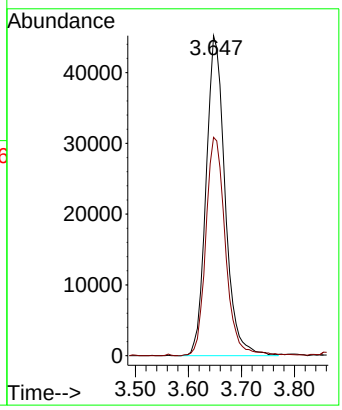




#13
Acrolein
Concen: 222.008 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 56 Resp: 11224

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
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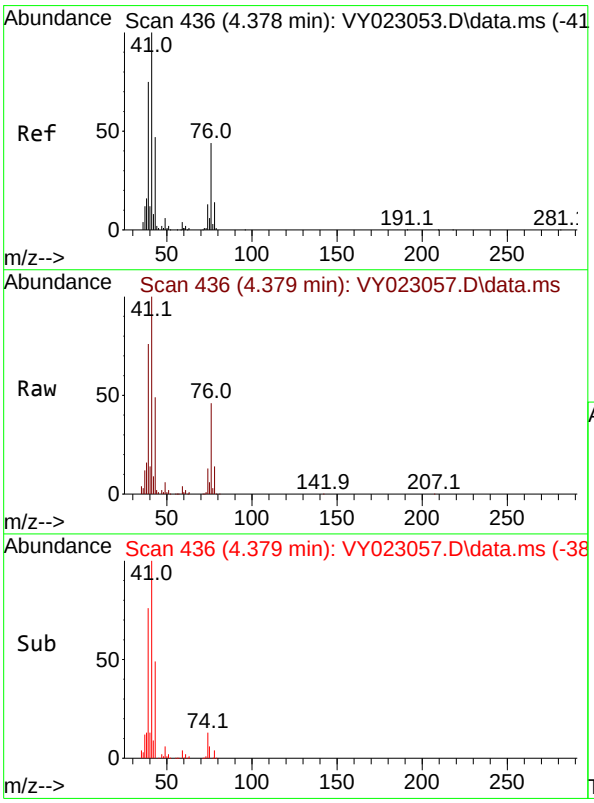
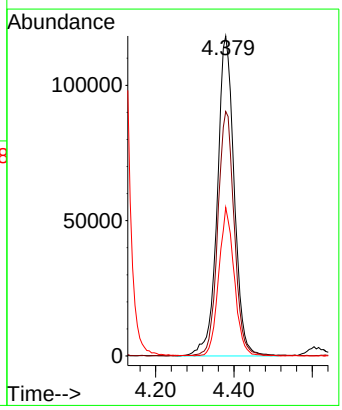
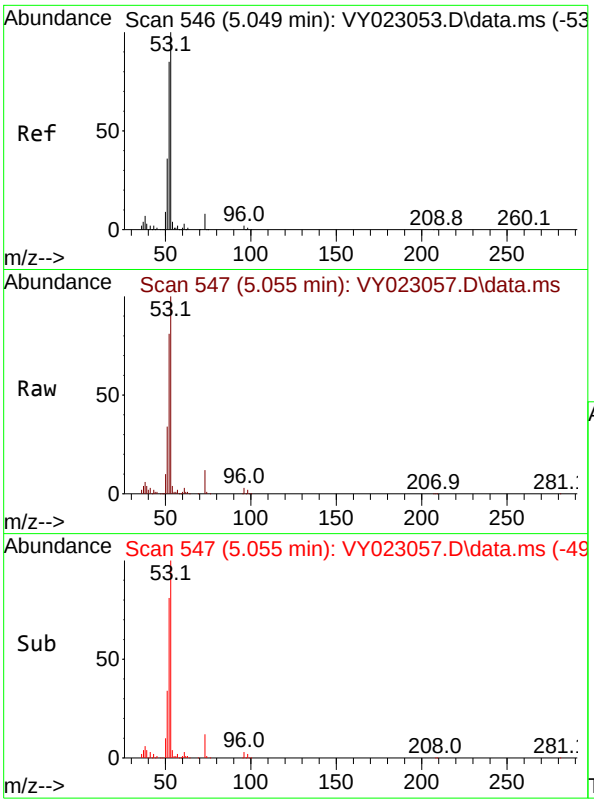


#14
Allyl chloride
Concen: 47.317 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 354691

Ion	Ratio	Lower	Upper
41	100		
39	74.2	59.8	89.6
76	42.7	33.7	50.5





#15
Acrylonitrile
Concen: 242.779 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 53 Resp: 27432

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	36.5	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
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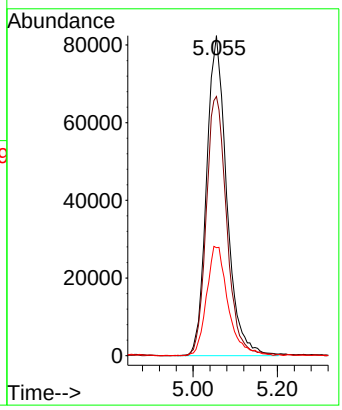
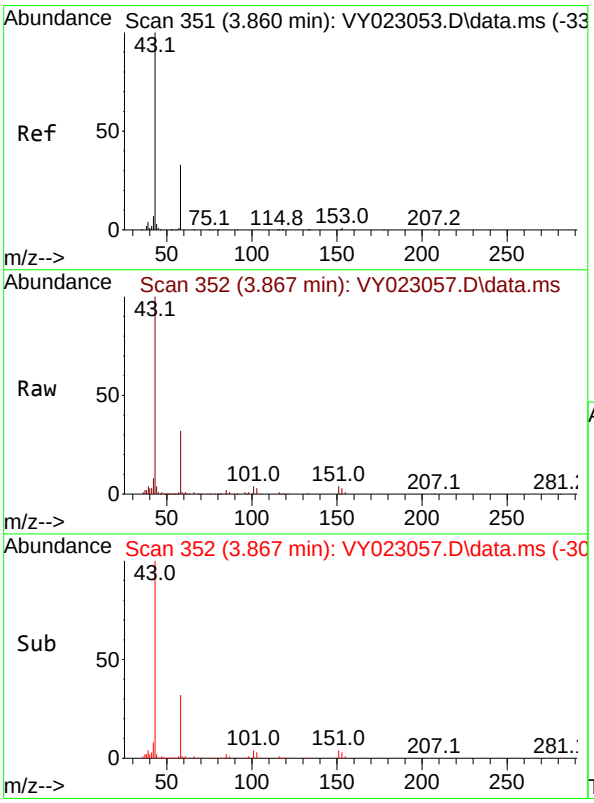
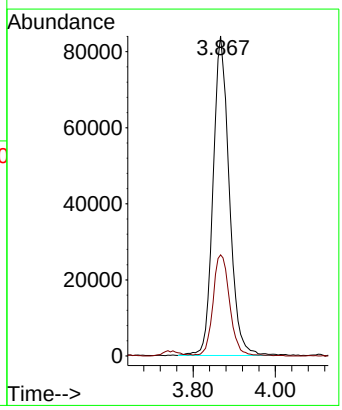


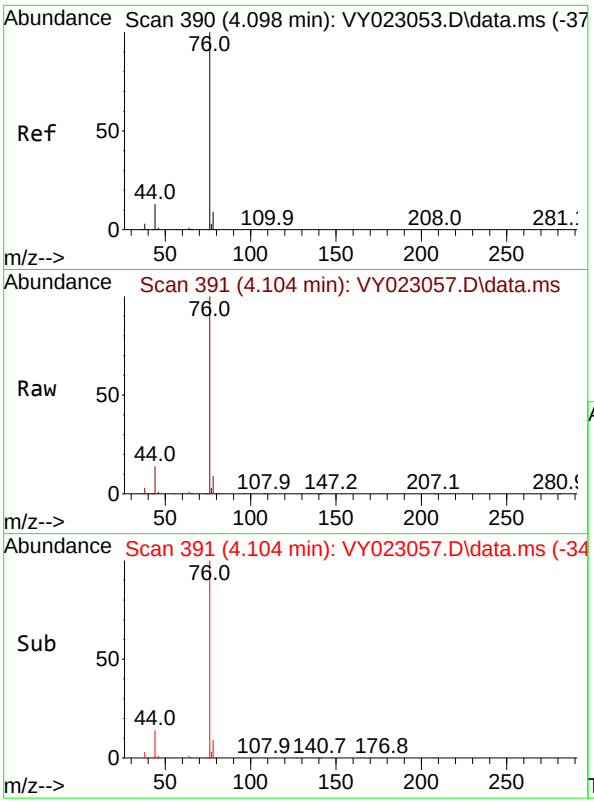


#16
Acetone
Concen: 210.695 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 229985

Ion	Ratio	Lower	Upper
43	100		
58	31.5	27.1	40.7

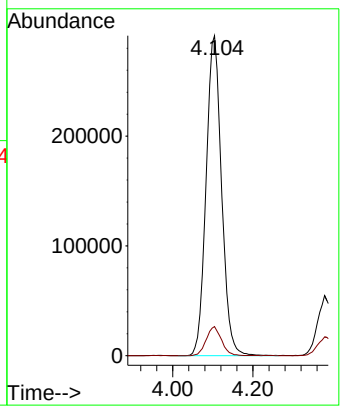




#17
Carbon Disulfide
Concen: 46.948 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 76 Resp: 77985

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2



Instrument :
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ClientSampleId :
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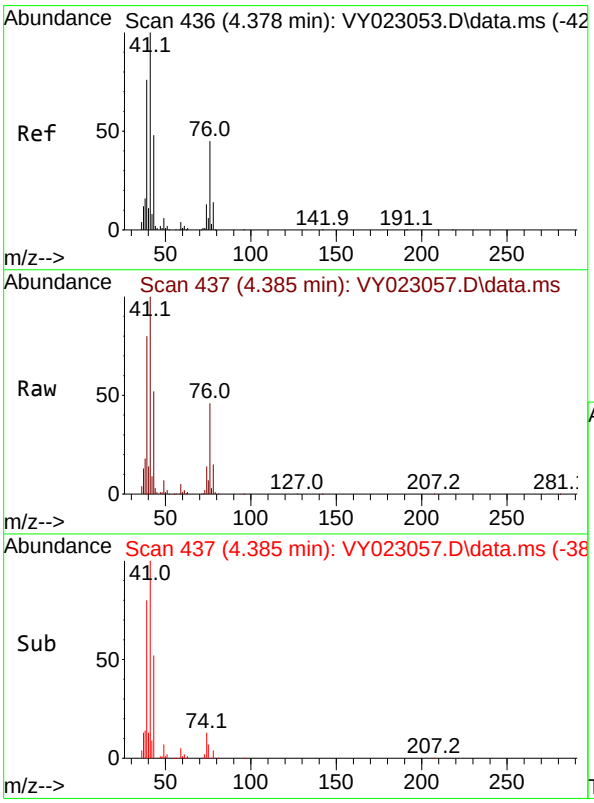
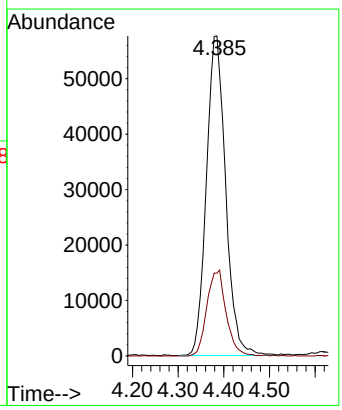
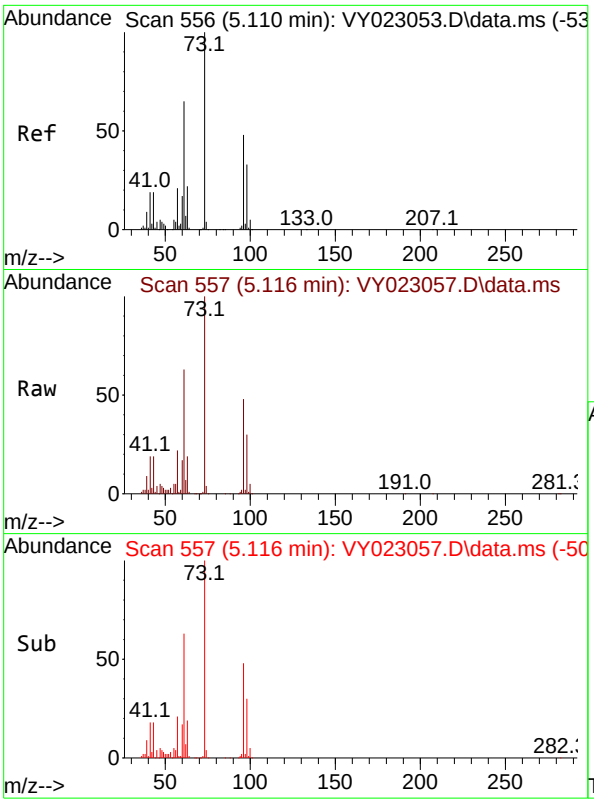


#18
Methyl Acetate
Concen: 51.972 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 168821

Ion	Ratio	Lower	Upper
43	100		
74	26.8	21.2	31.8

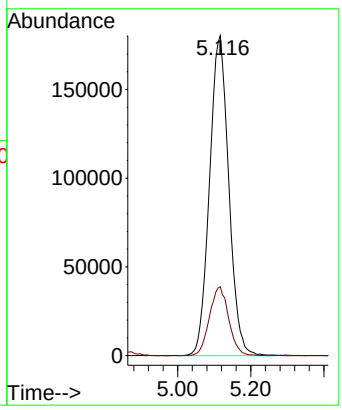




#19
Methyl tert-butyl Ether
Concen: 49.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 73 Resp: 65871

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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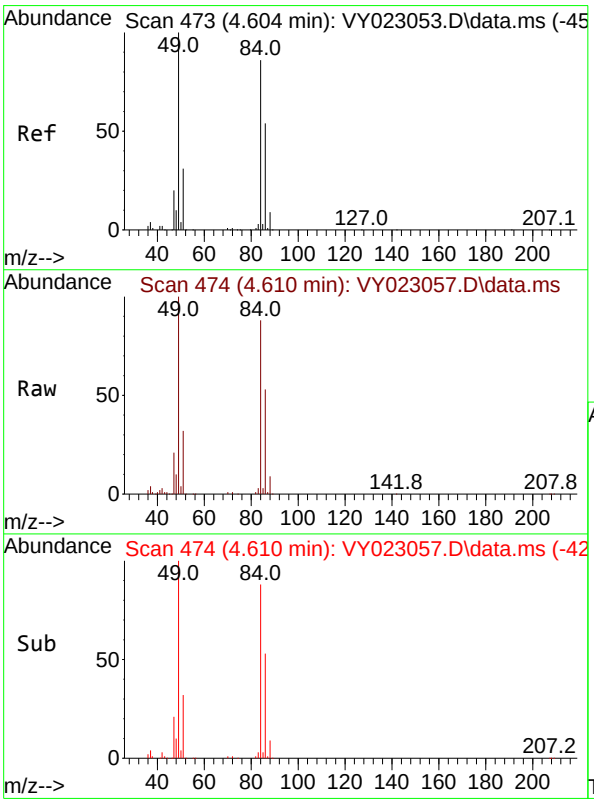
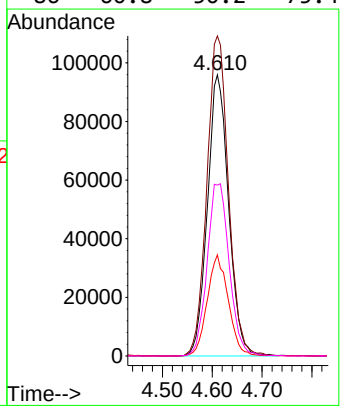
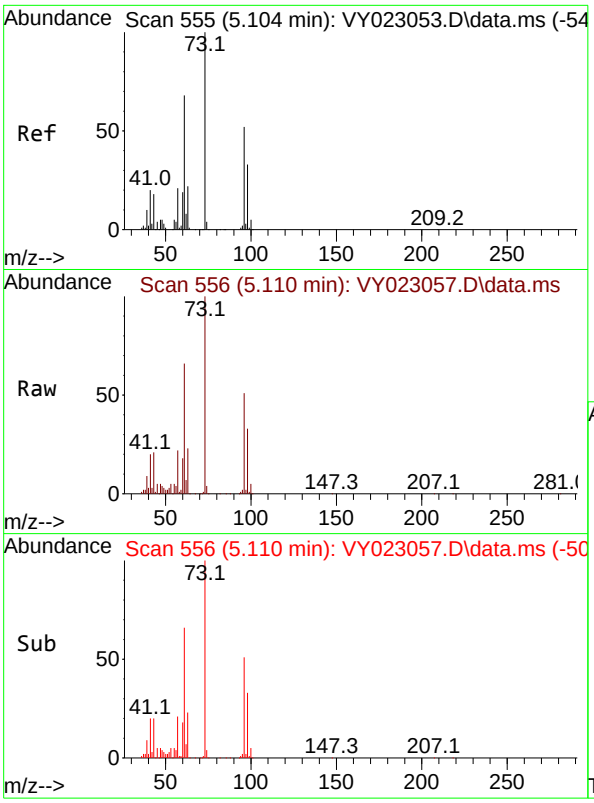


#20
Methylene Chloride
Concen: 49.960 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 84 Resp: 283386

Ion	Ratio	Lower	Upper
84	100		
49	113.8	93.0	139.6
51	36.0	29.0	43.4
86	60.8	50.2	75.4

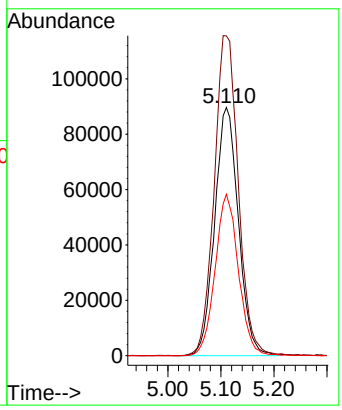




#21
trans-1,2-Dichloroethene
Concen: 48.765 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 27918

Ion	Ratio	Lower	Upper
96	100		
61	128.9	104.8	157.2
98	65.0	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
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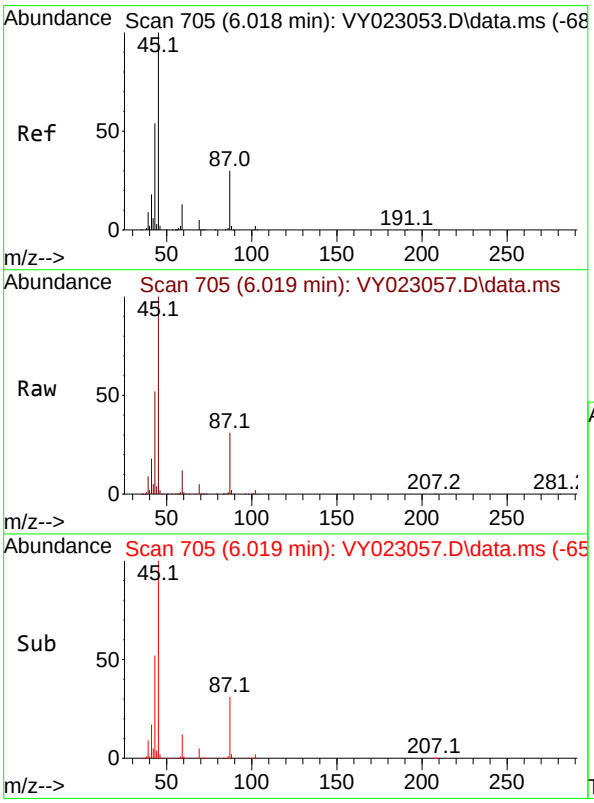
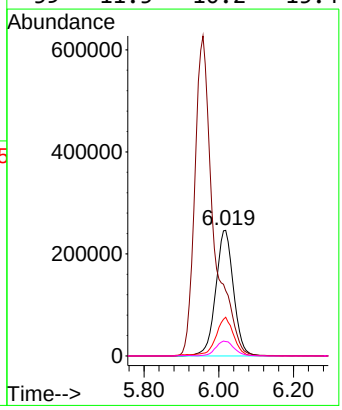
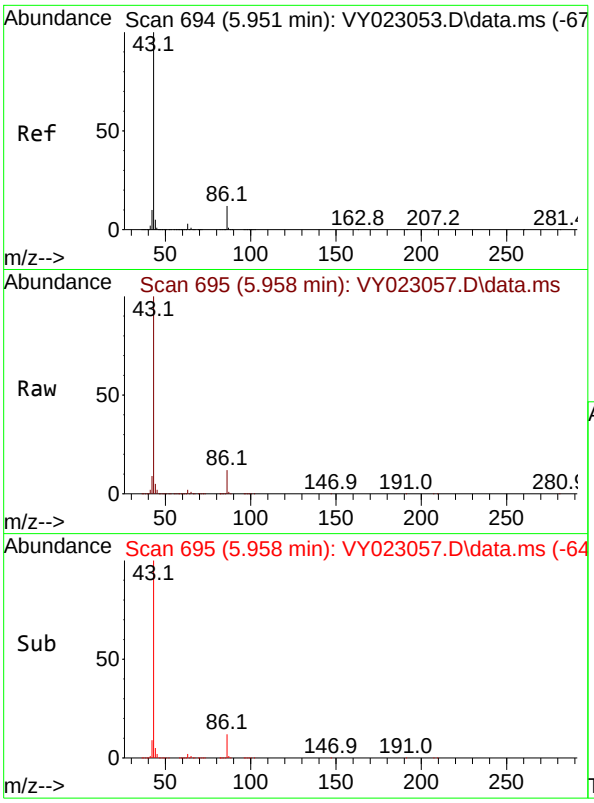


#22
Diisopropyl ether
Concen: 50.011 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 45 Resp: 814622

Ion	Ratio	Lower	Upper
45	100		
43	51.7	43.4	65.0
87	30.8	24.4	36.6
59	11.5	10.2	15.4

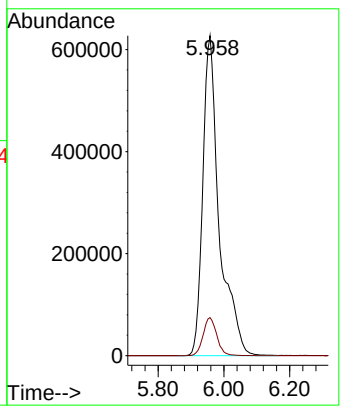




#23
Vinyl Acetate
Concen: 242.360 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 218292

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
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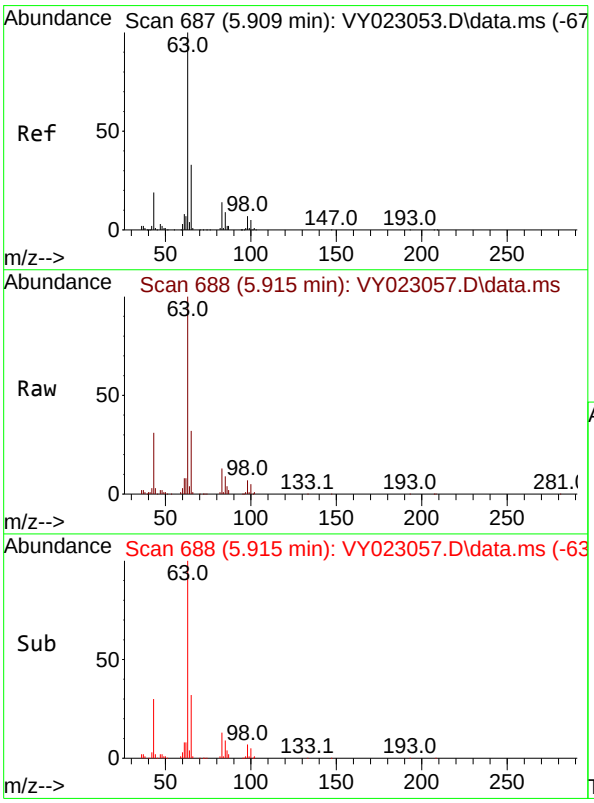
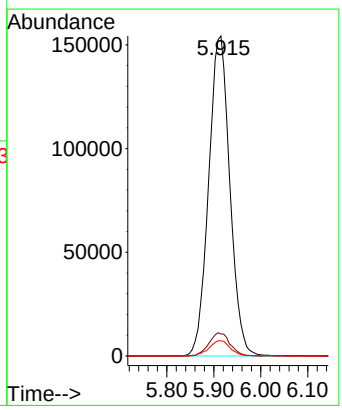
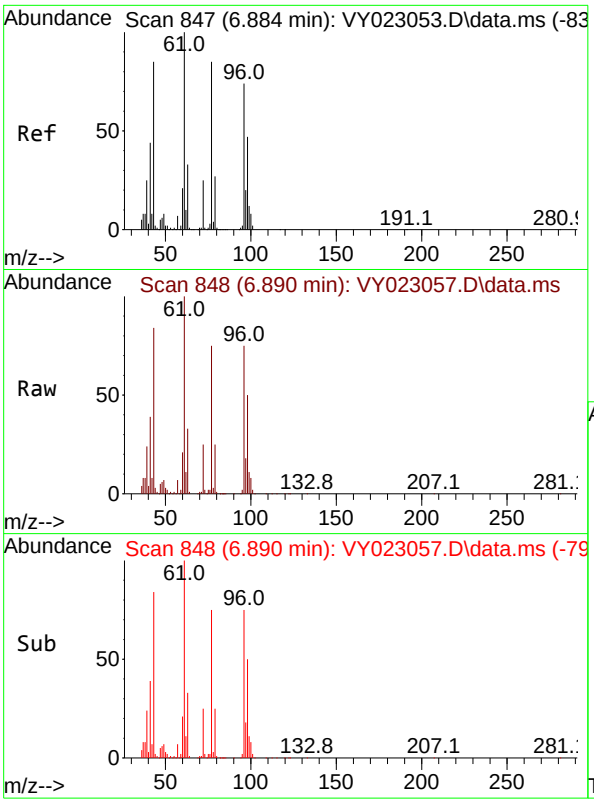


#24
1,1-Dichloroethane
Concen: 48.551 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 483509

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.6
100	4.7	2.4	7.1





#25
2-Butanone
Concen: 230.028 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 34149

Ion	Ratio	Lower	Upper
43	100		
72	30.0	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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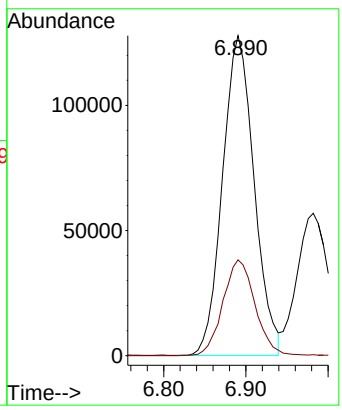
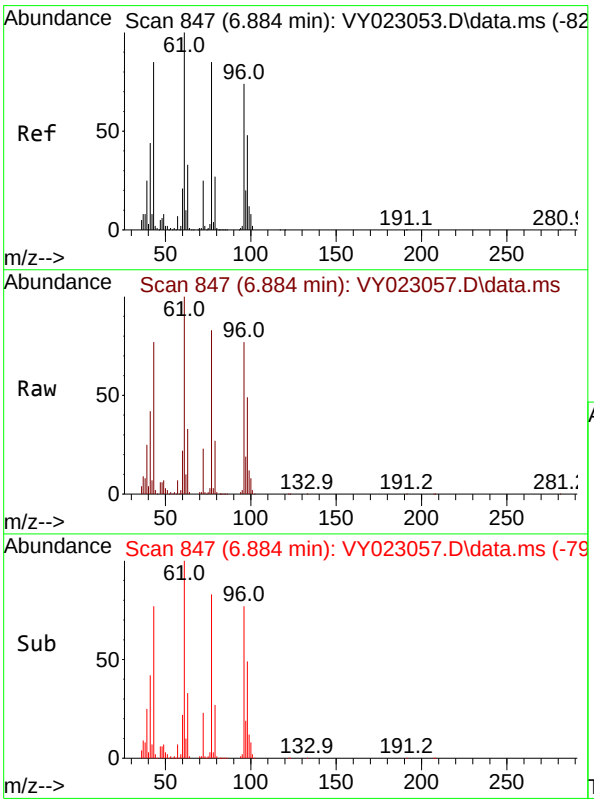
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

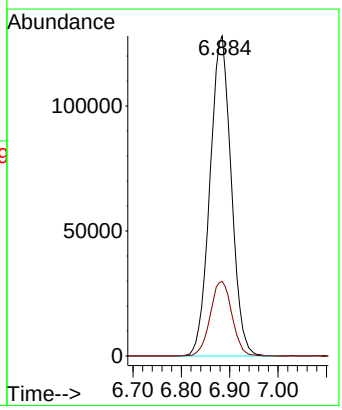


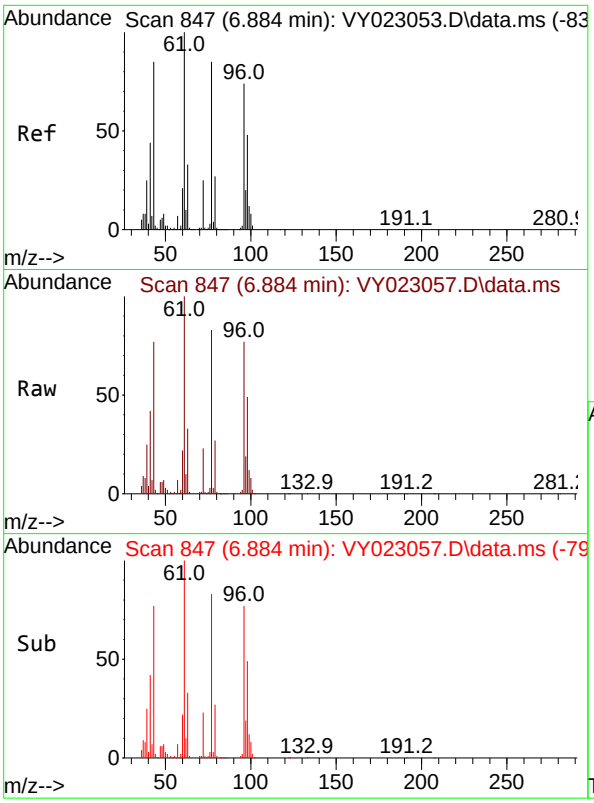


#26
2,2-Dichloropropane
Concen: 45.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 77 Resp: 390777

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8

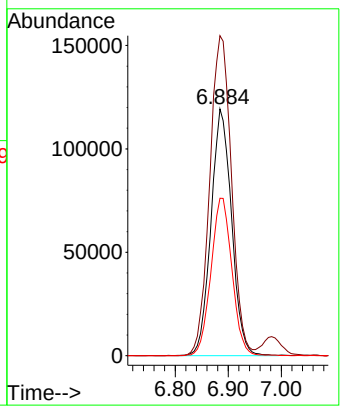




#27
cis-1,2-Dichloroethene
Concen: 48.720 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 32245

Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	278.6
98	65.0	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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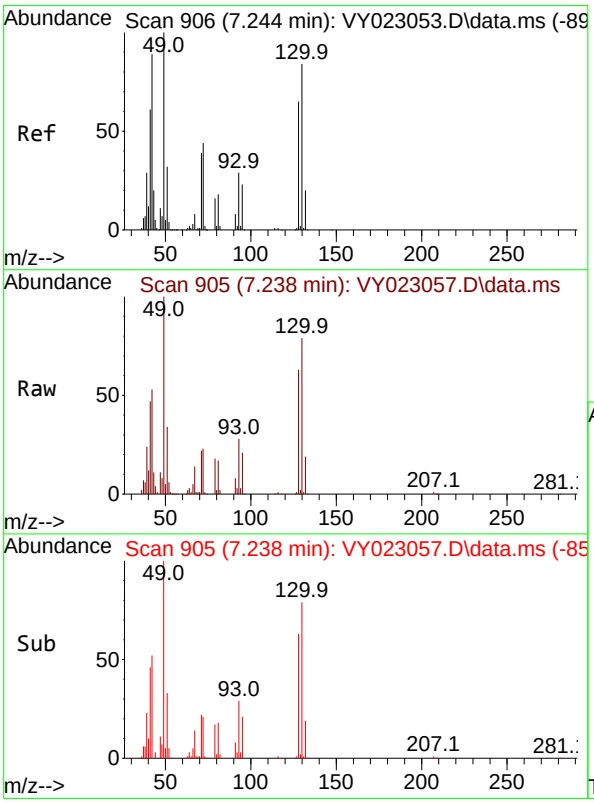
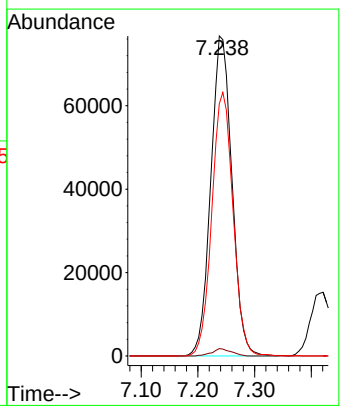
Supervised By :Semsettin Yesilyurt 08/14/2025

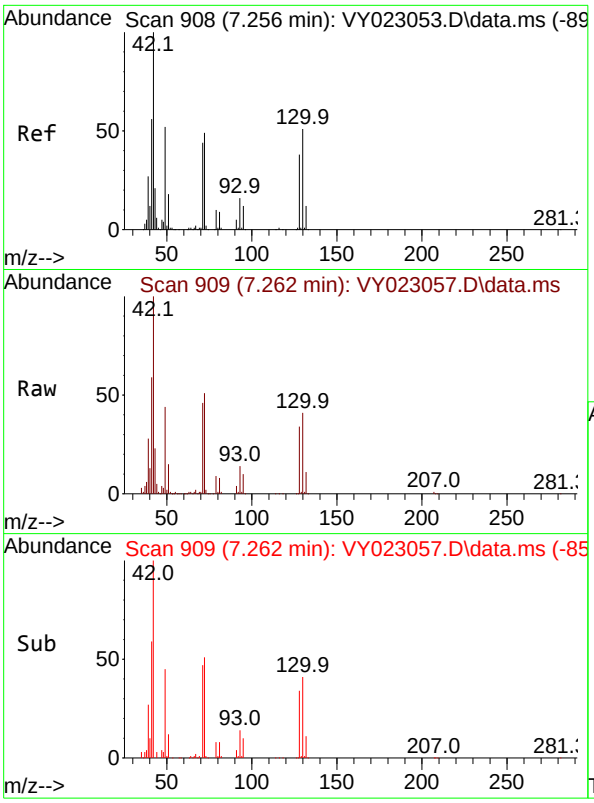


#28
Bromochloromethane
Concen: 50.275 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 49 Resp: 198640

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.6	66.4	99.6

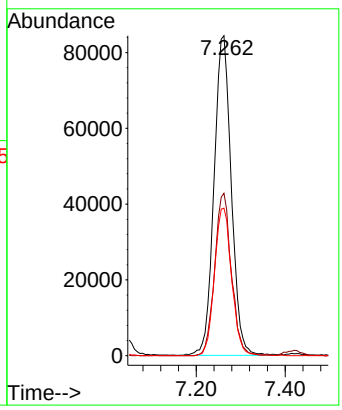




#29
Tetrahydrofuran
Concen: 247.420 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 42 Resp: 22768

Ion	Ratio	Lower	Upper
42	100		
72	49.3	39.4	59.2
71	45.7	36.5	54.7



Instrument :
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ClientSampleId :
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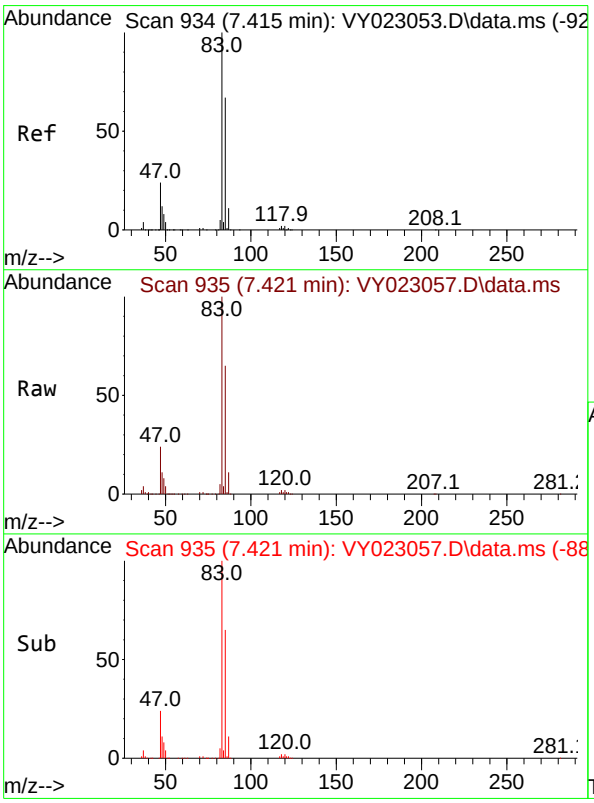
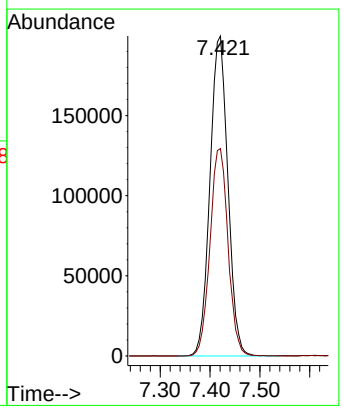
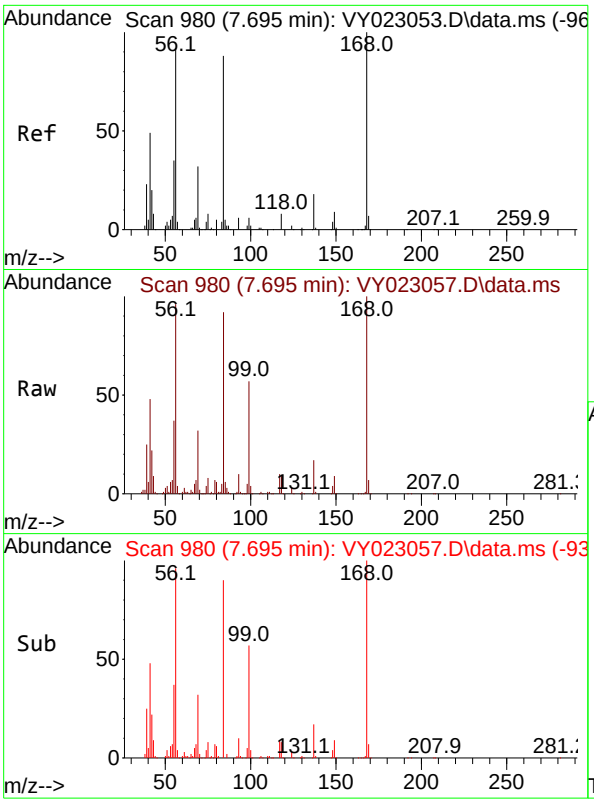


#30
Chloroform
Concen: 48.450 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 497627

Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.8	80.8

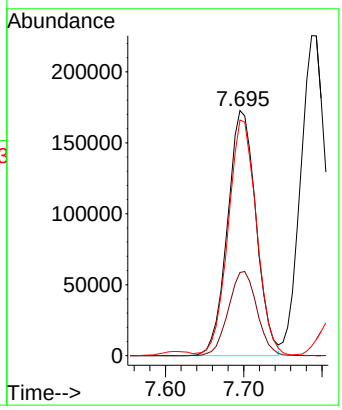




#31
Cyclohexane
Concen: 46.526 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 56 Resp: 43663

Ion	Ratio	Lower	Upper
56	100		
69	33.9	28.2	42.2
84	94.5	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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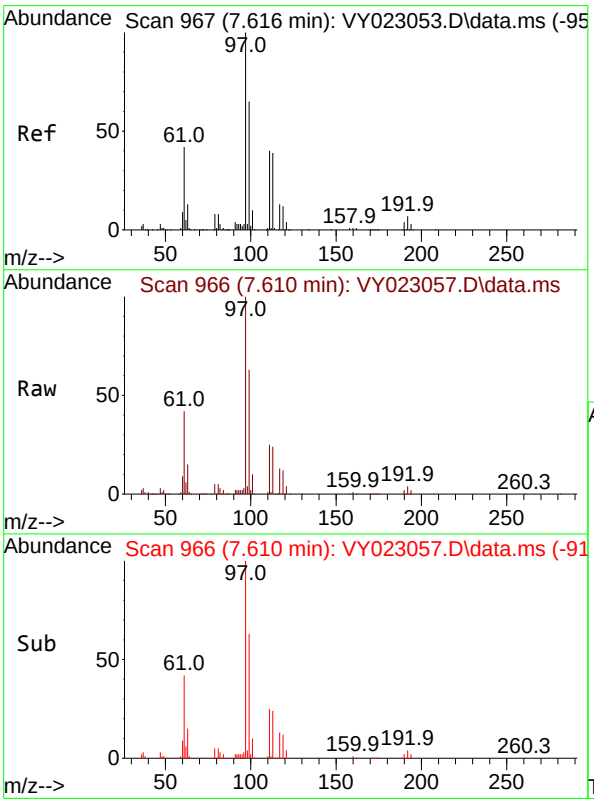
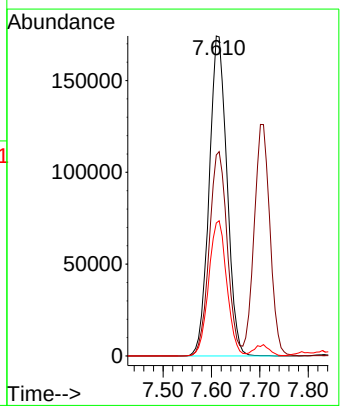
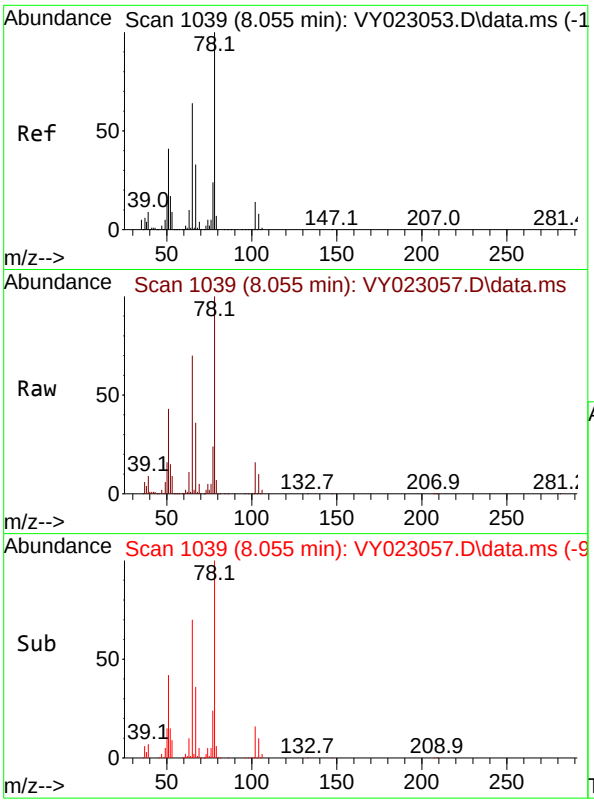


#32
1,1,1-Trichloroethane
Concen: 48.933 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 97 Resp: 445943

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.6	77.4
61	43.0	34.2	51.2

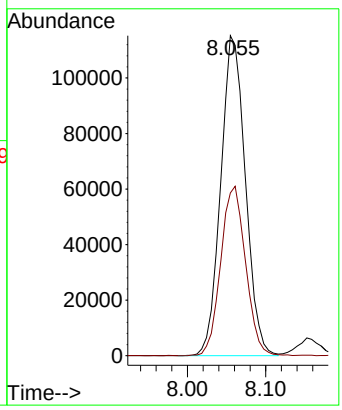




#33
1,2-Dichloroethane-d4
Concen: 50.038 ug/l
RT: 8.055 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 65 Resp: 25211(

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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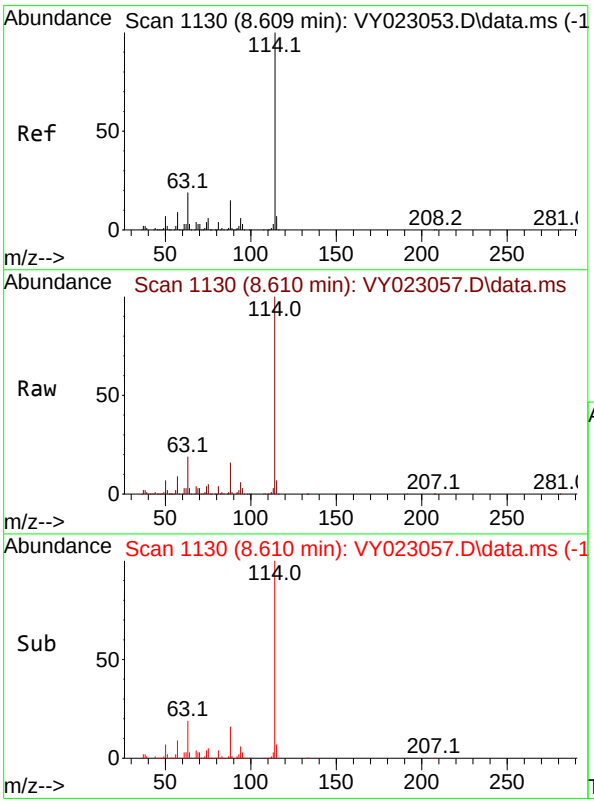
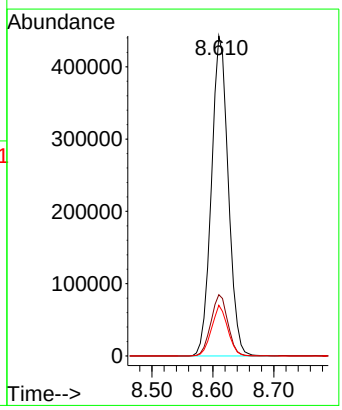
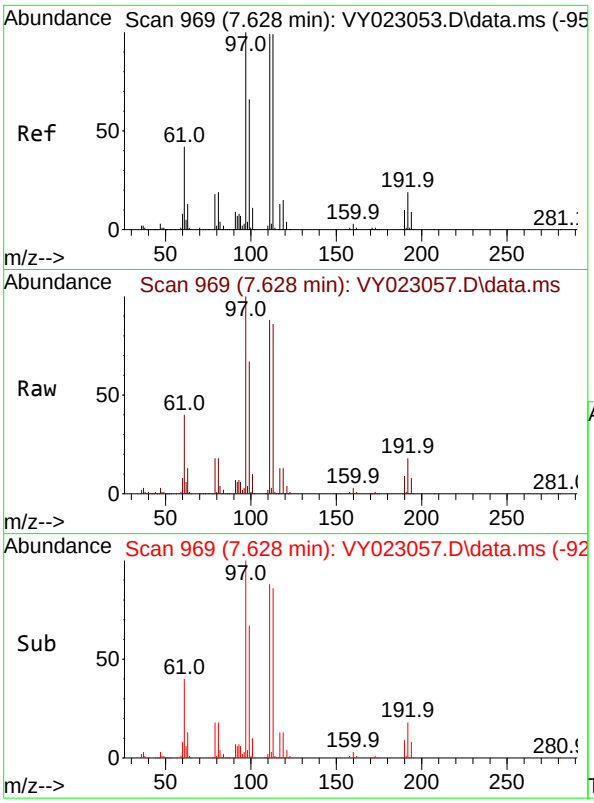


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:114 Resp: 849851

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	15.9	0.0	30.0





#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:113 Resp: 25517

Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.1	121.7
192	20.4	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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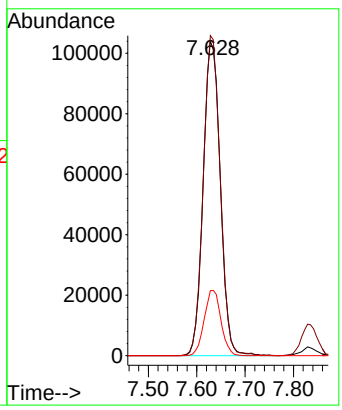
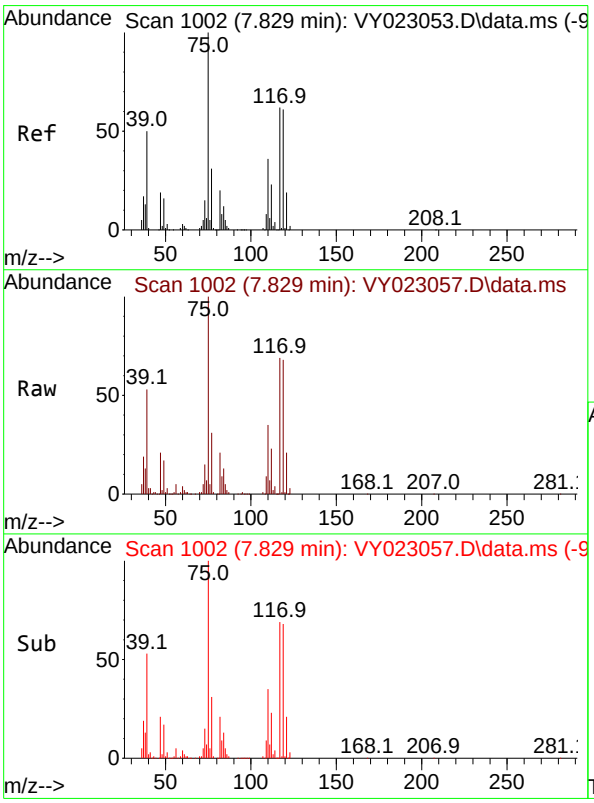
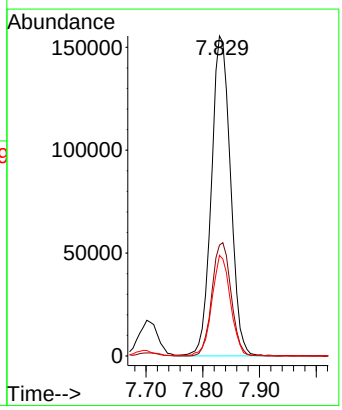


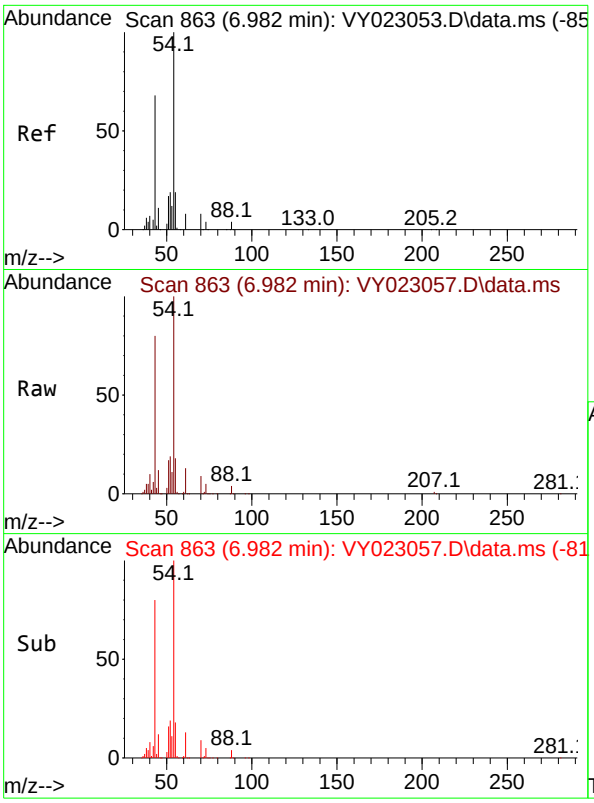


#36
1,1-Dichloropropene
Concen: 48.193 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 364210

Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.4
77	30.6	24.6	37.0





#37
Ethyl Acetate
Concen: 49.621 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 15753

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.9	17.9
70	10.7	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
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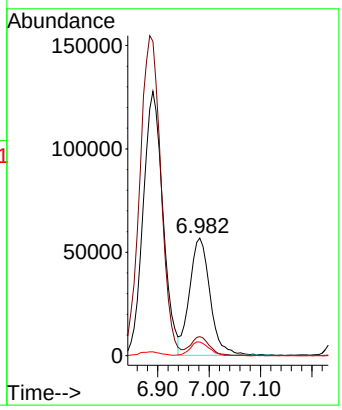
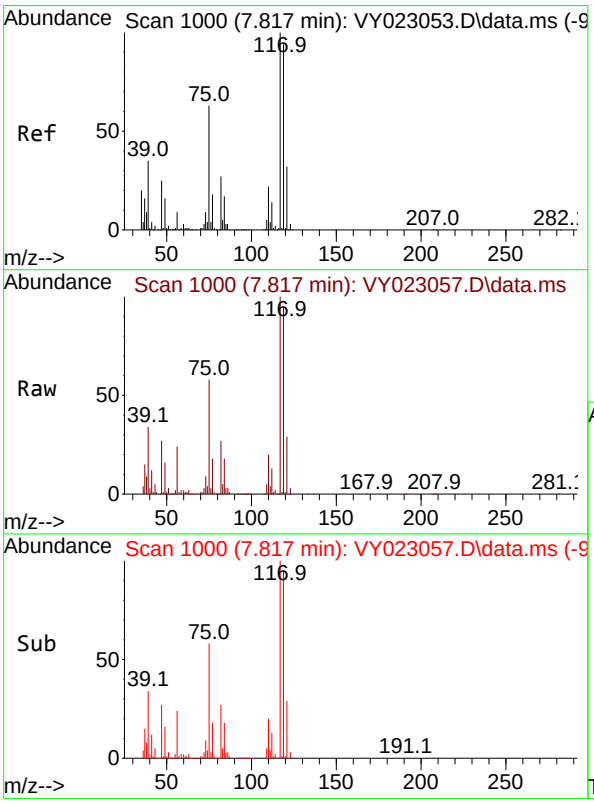
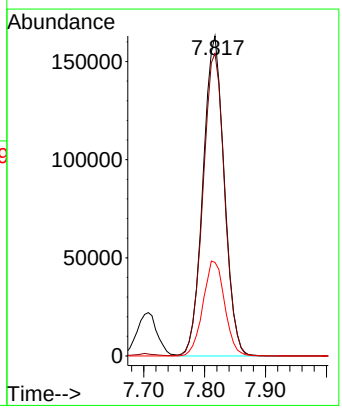


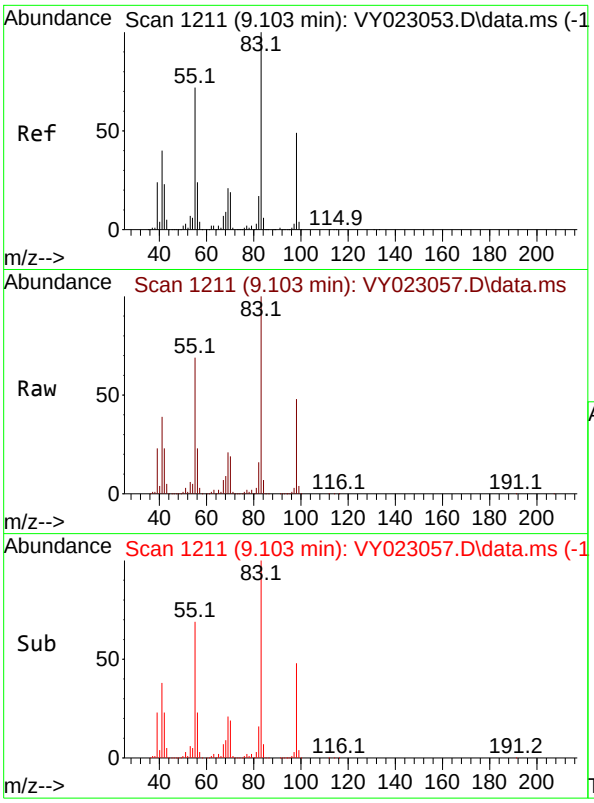


#38
Carbon Tetrachloride
Concen: 48.030 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 394245

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	29.2	25.8	38.8





#39
Methylcyclohexane
Concen: 49.625 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 49386

Ion	Ratio	Lower	Upper
83	100		
55	69.3	57.6	86.4
98	48.2	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
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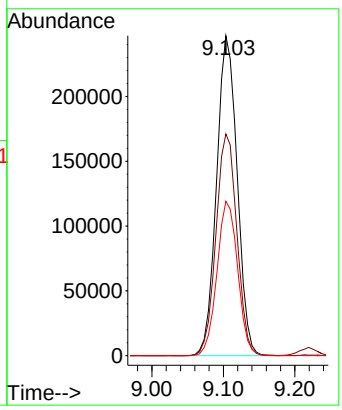
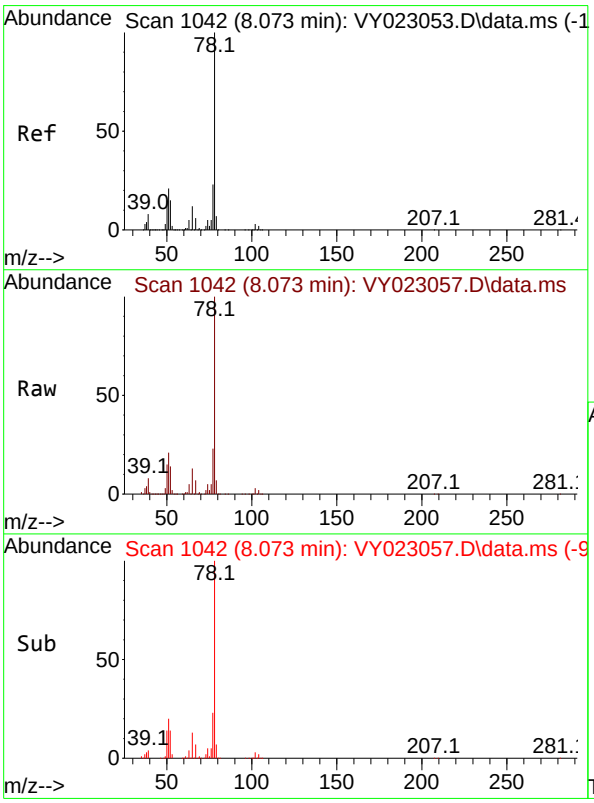
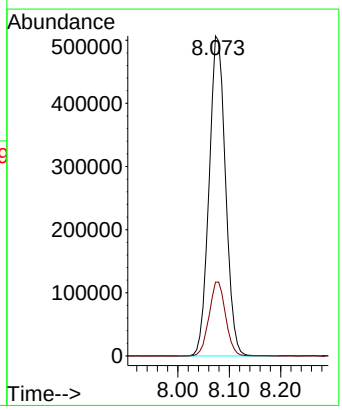


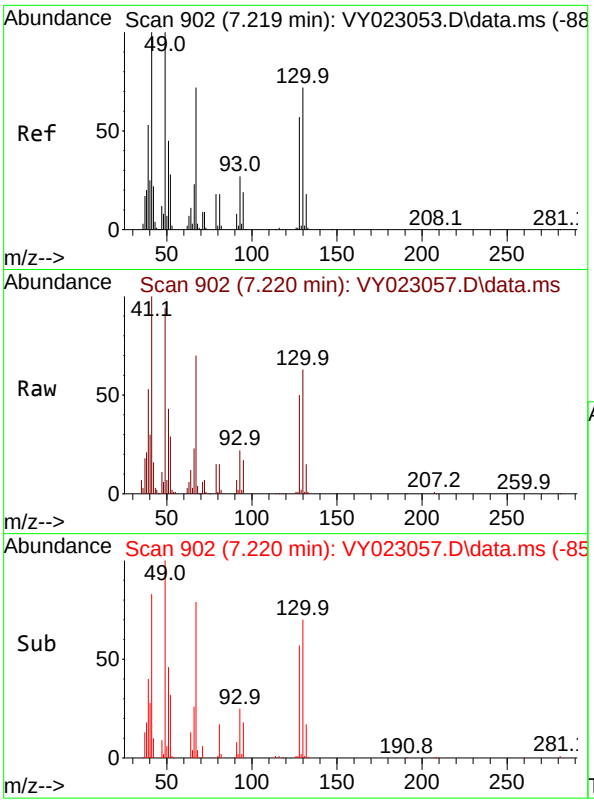


#40
Benzene
Concen: 48.428 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 78 Resp: 1128023

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0

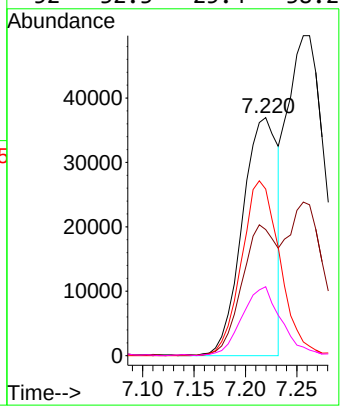




#41
Methacrylonitrile
Concen: 48.269 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 8843

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.4	65.2
67	80.6	63.6	95.4
52	32.3	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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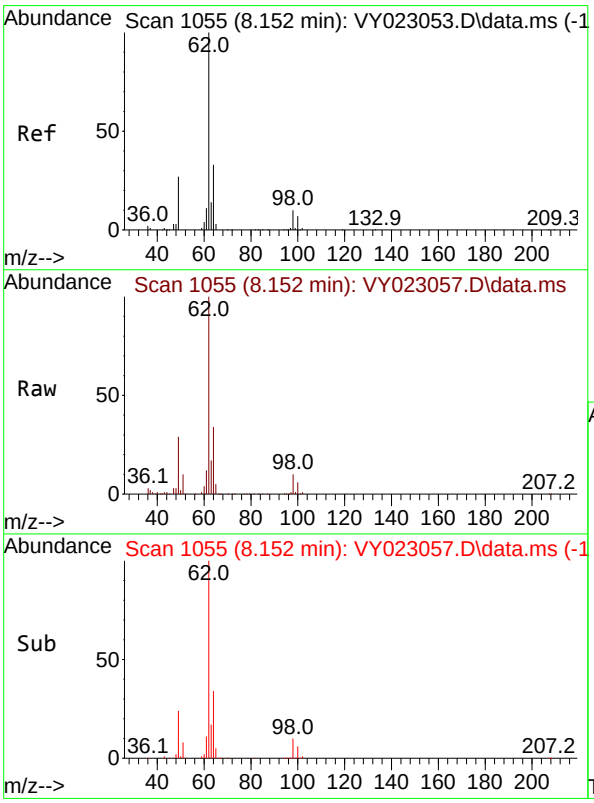
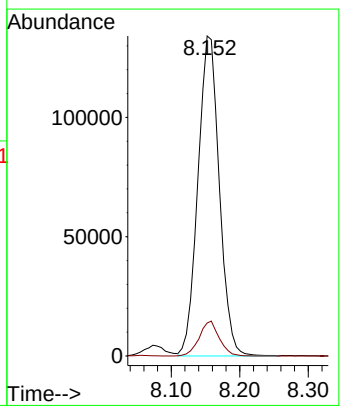
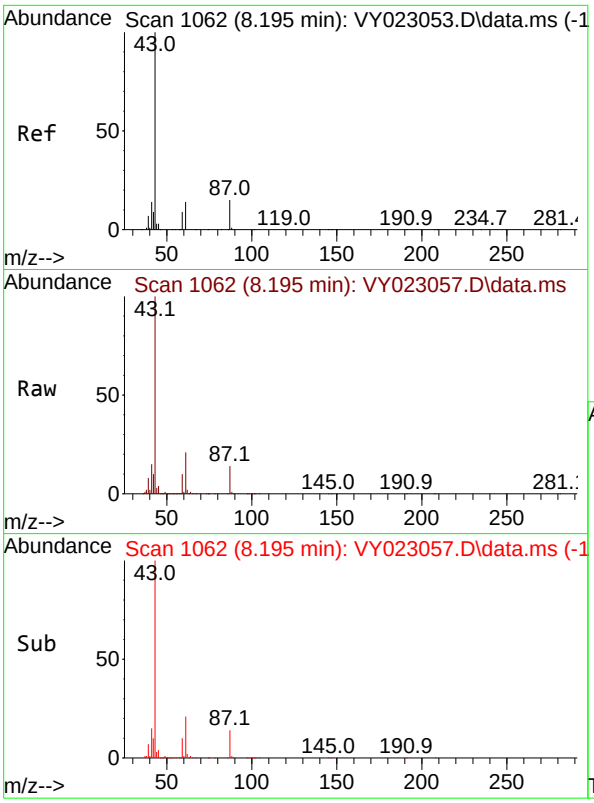


#42
1,2-Dichloroethane
Concen: 48.162 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 291766

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6





#43
Isopropyl Acetate
Concen: 49.094 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 3150

Ion	Ratio	Lower	Upper
43	100		
61	22.0	16.4	24.6
87	14.7	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
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Reviewed By :Mahesh Dadoda 08/14/2025
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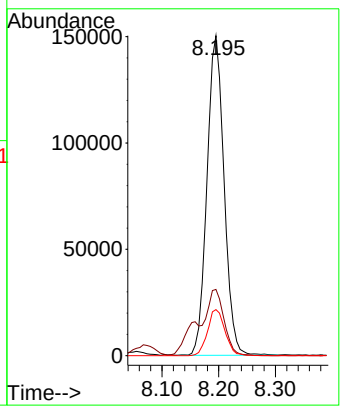
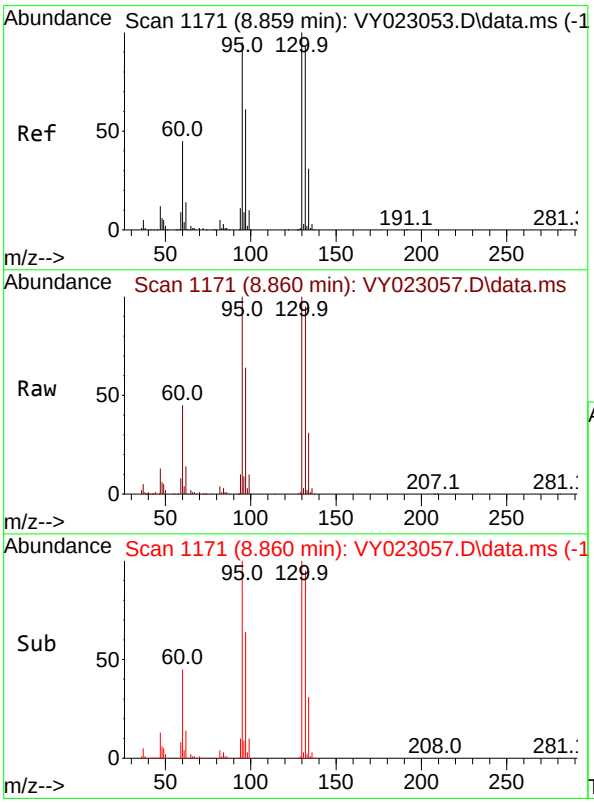
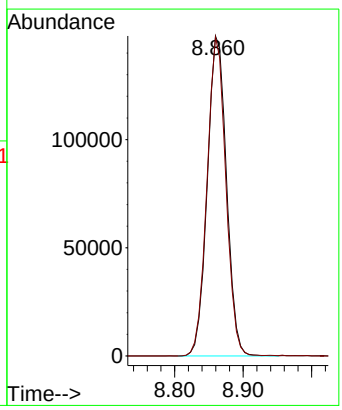


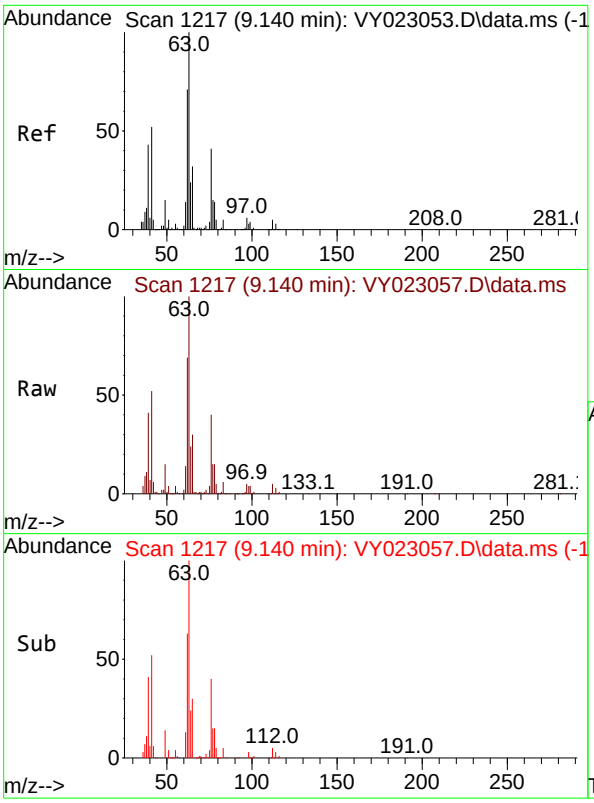


#44
Trichloroethene
Concen: 47.803 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:130 Resp: 287745

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	190.2

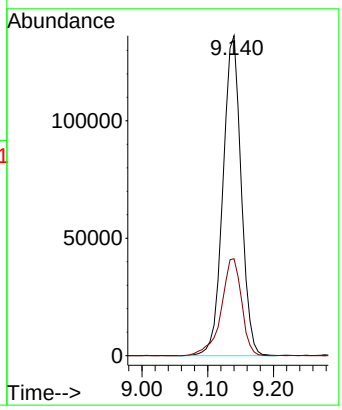




#45
1,2-Dichloropropane
Concen: 48.961 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 26240

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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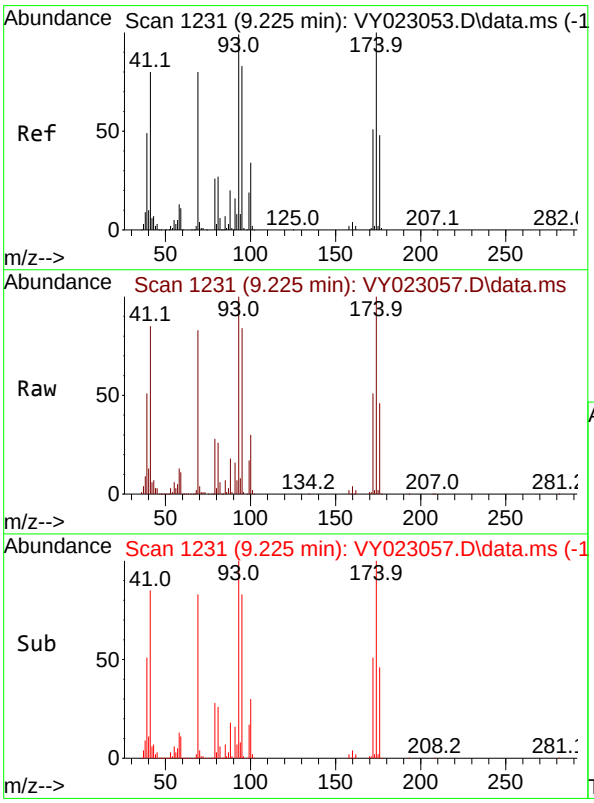
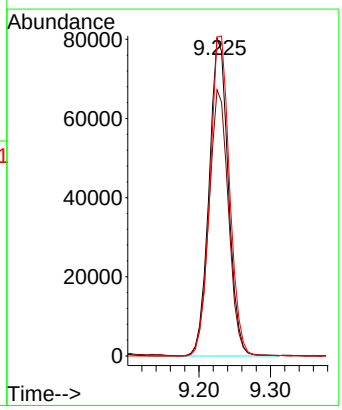
Supervised By :Semsettin Yesilyurt 08/14/2025

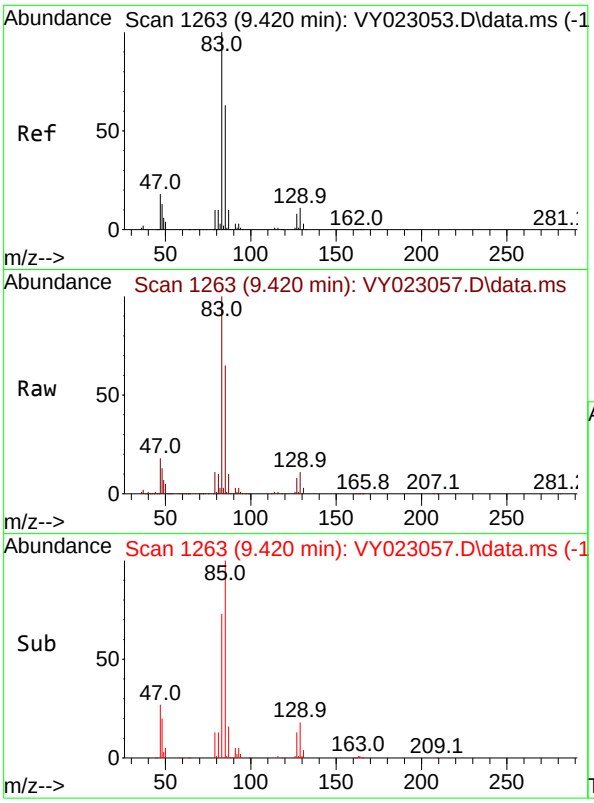


#46
Dibromomethane
Concen: 48.679 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 93 Resp: 149745

Ion	Ratio	Lower	Upper
93	100		
95	84.9	66.5	99.7
174	102.5	81.8	122.8

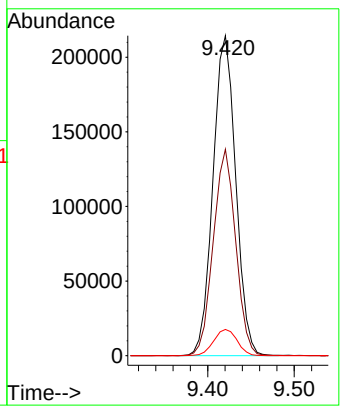




#47
Bromodichloromethane
Concen: 49.463 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 39152

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.2	75.4
127	8.2	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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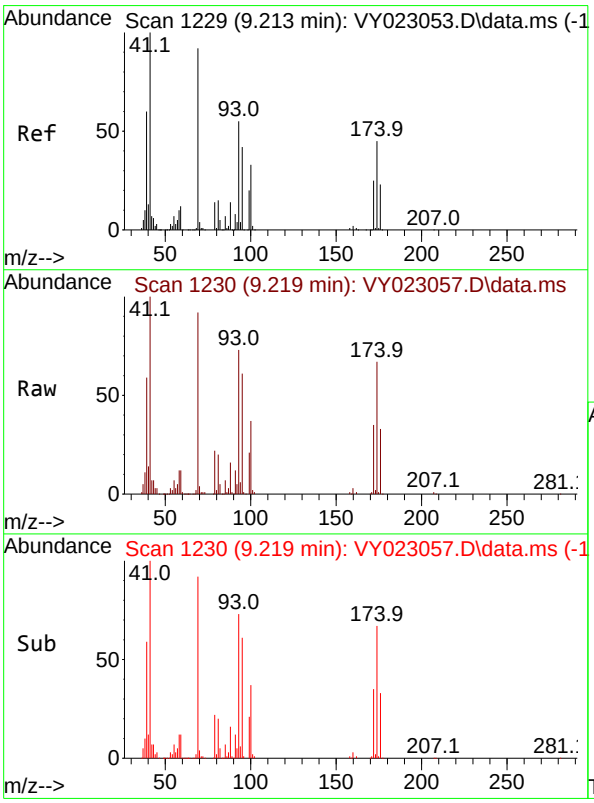
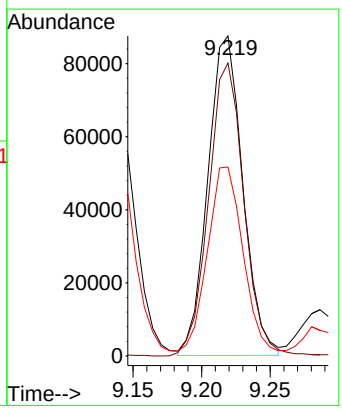
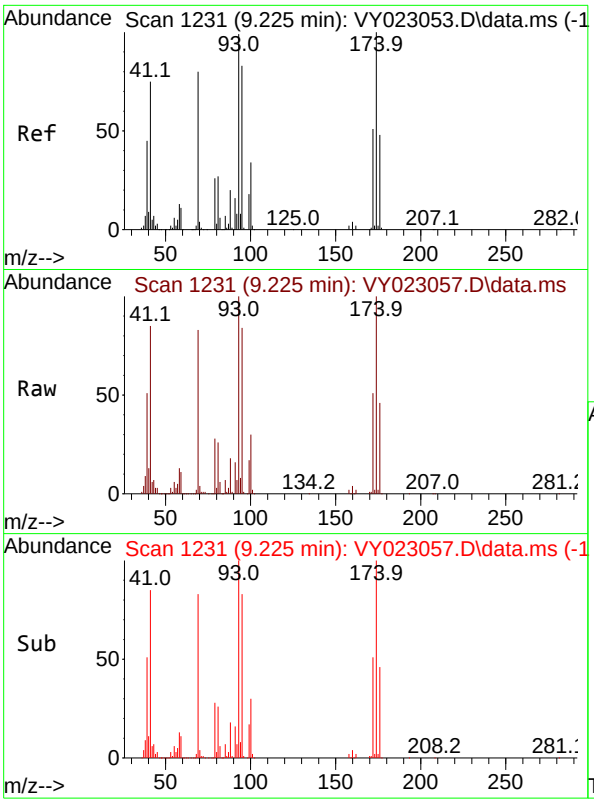


#48
Methyl methacrylate
Concen: 50.520 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 155118

Ion	Ratio	Lower	Upper
41	100		
69	92.7	73.2	109.8
39	57.8	47.0	70.4





#49
1,4-Dioxane
Concen: 971.749 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 88 Resp: 3505

Ion	Ratio	Lower	Upper
88	100		
43	30.2	24.3	36.5
58	70.9	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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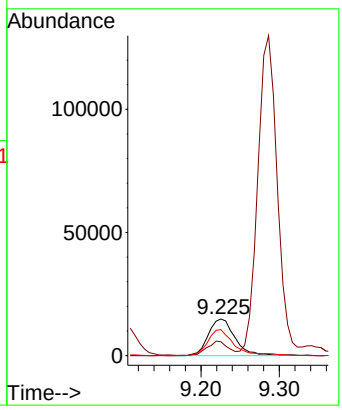
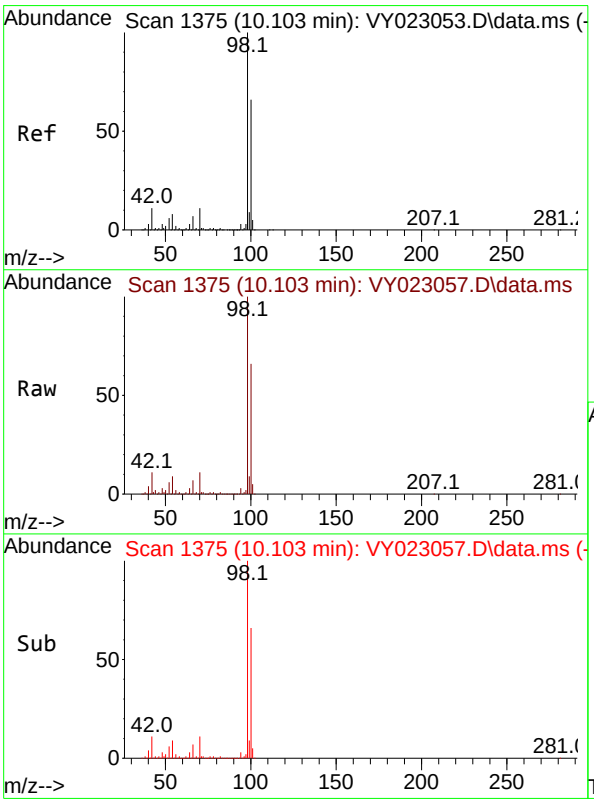
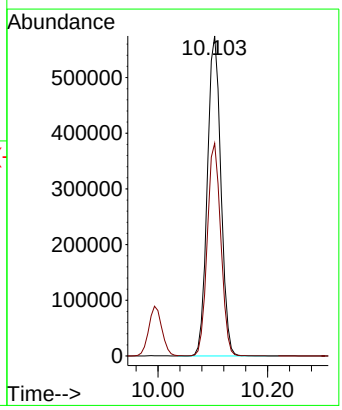


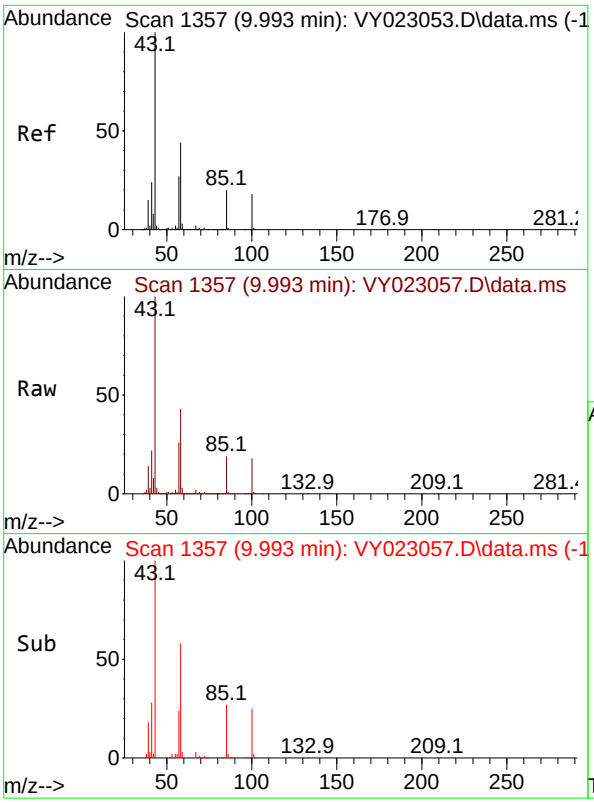


#50
Toluene-d8
Concen: 49.306 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 98 Resp: 979510

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 248.943 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 82394

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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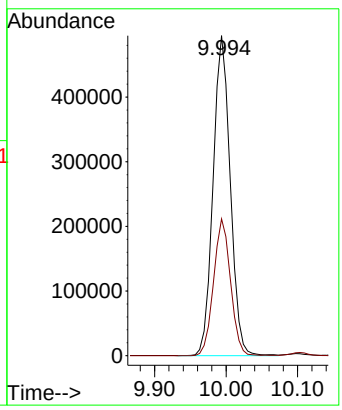
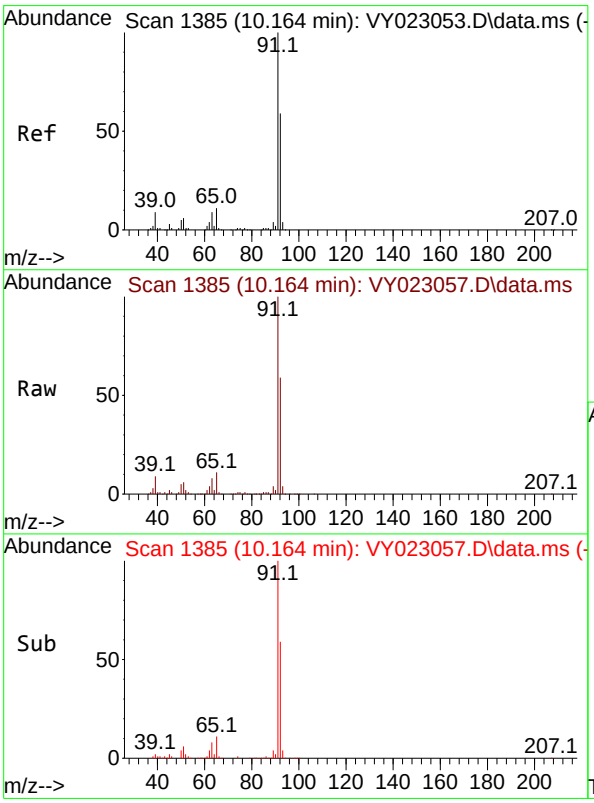
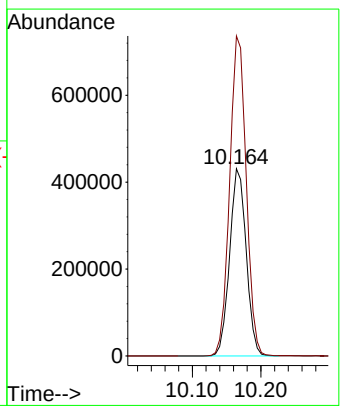


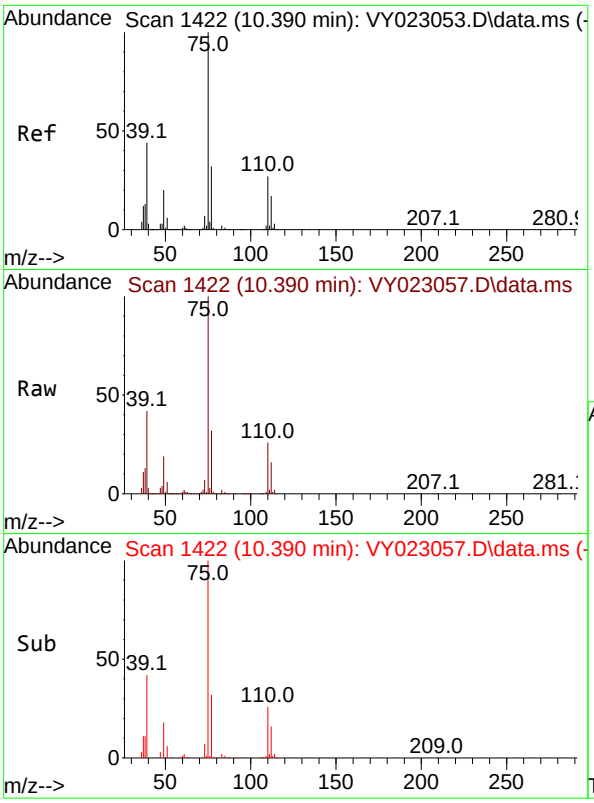


#52
Toluene
Concen: 48.963 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 92 Resp: 724356

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 49.699 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35622

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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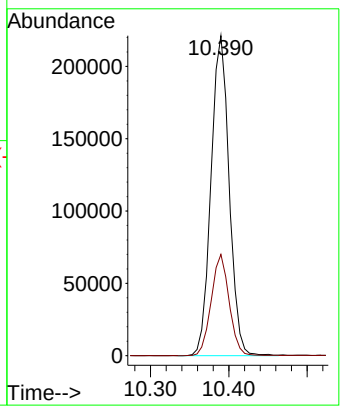
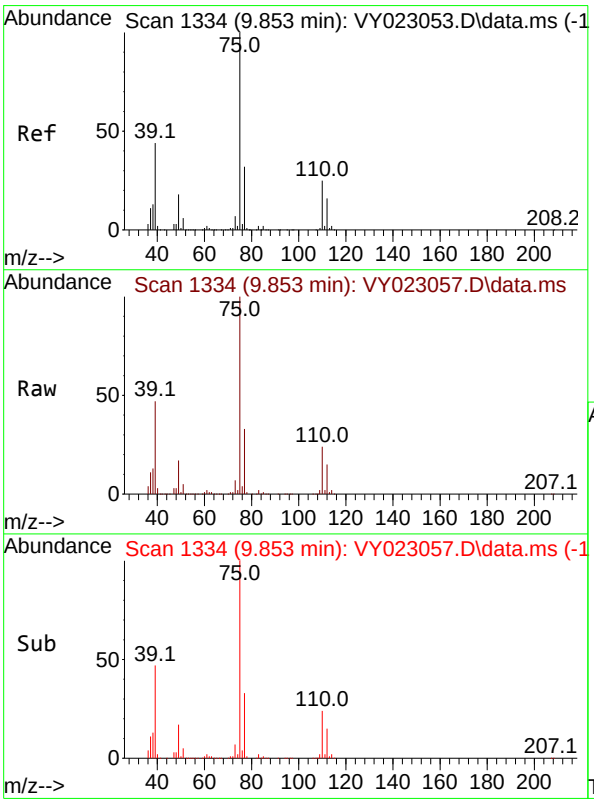
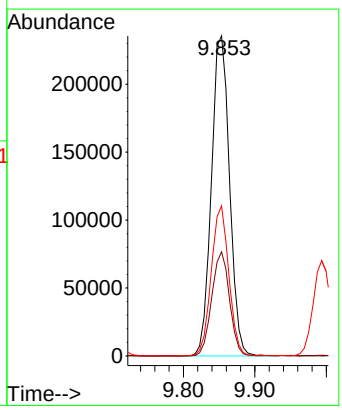


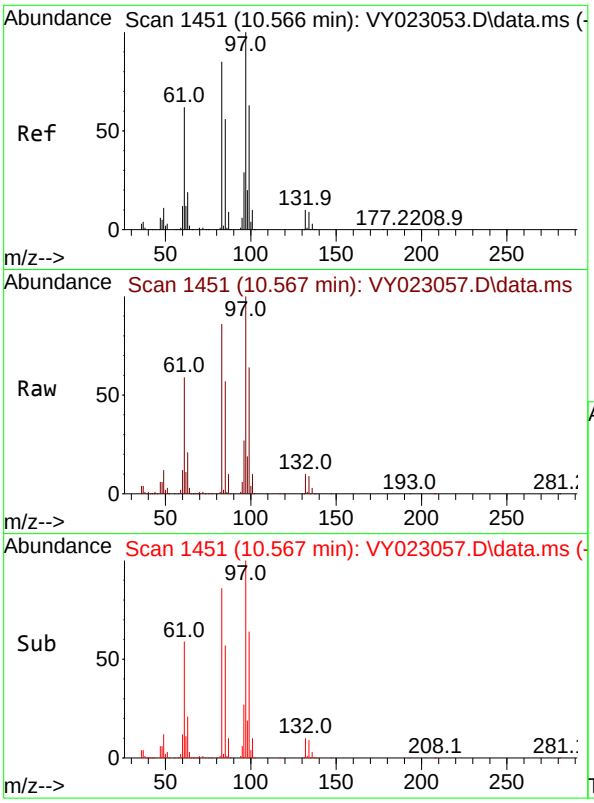


#54
cis-1,3-Dichloropropene
Concen: 48.965 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 415017

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.0
39	46.8	35.6	53.4

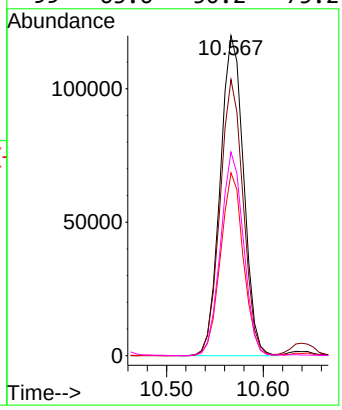




#55
1,1,2-Trichloroethane
Concen: 48.867 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 97 Resp: 20114

Ion	Ratio	Lower	Upper
97	100		
83	86.2	67.7	101.5
85	57.1	44.5	66.7
99	63.6	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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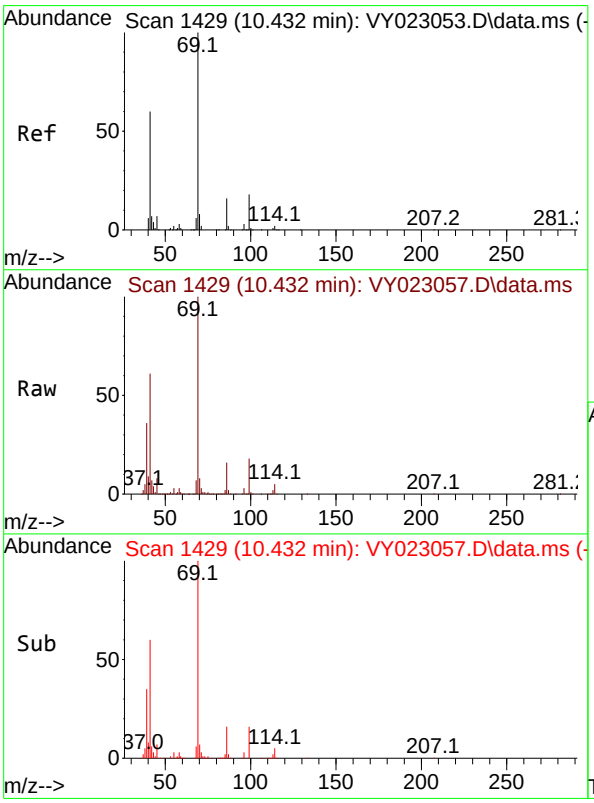
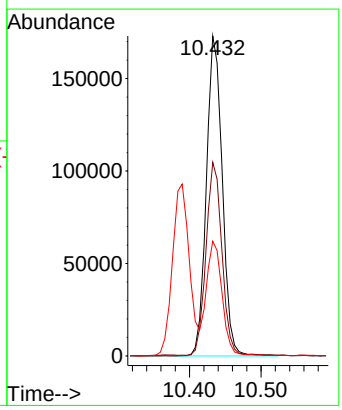
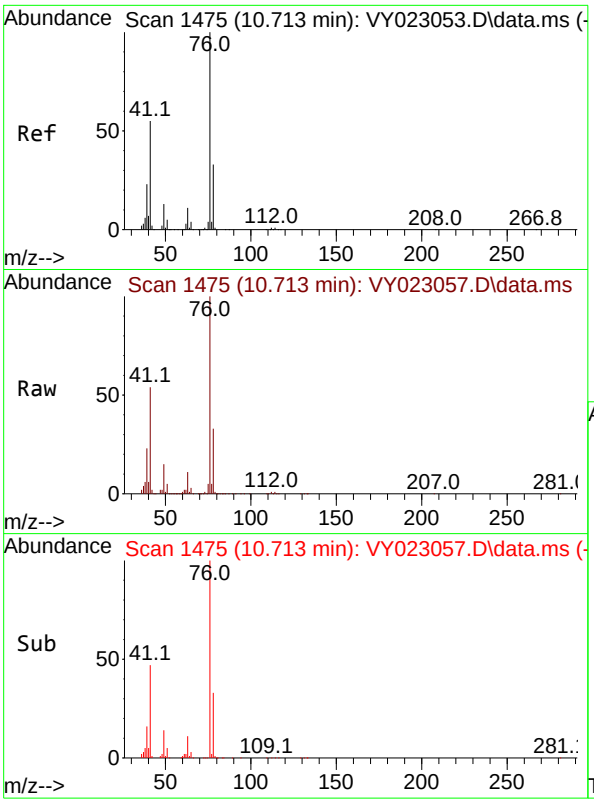


#56
Ethyl methacrylate
Concen: 50.779 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 69 Resp: 267458

Ion	Ratio	Lower	Upper
69	100		
41	60.8	48.6	72.8
39	35.0	27.0	40.4





#57
1,3-Dichloropropane
Concen: 49.228 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 76 Resp: 34364

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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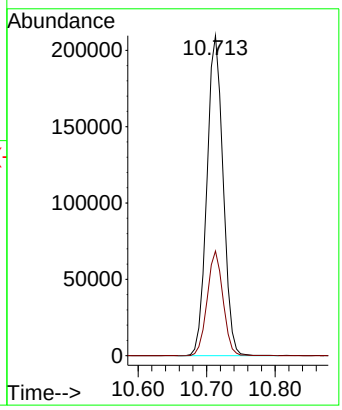
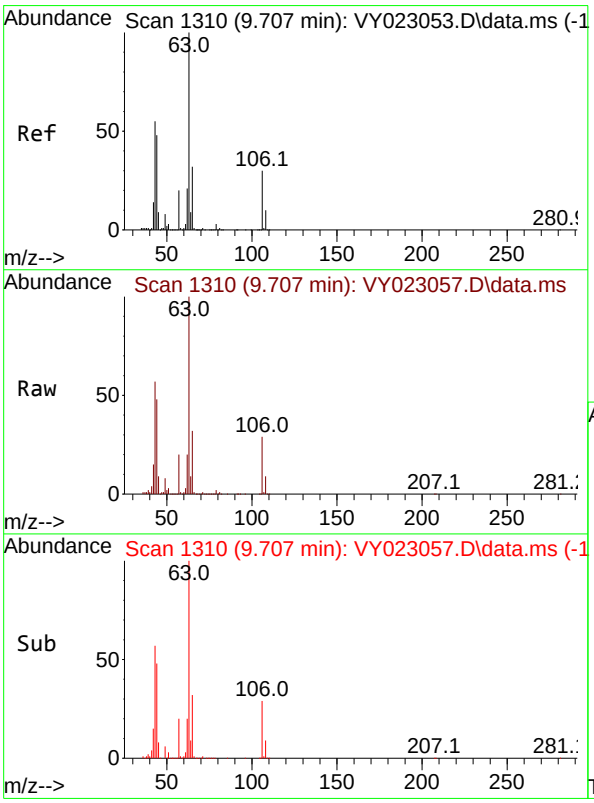
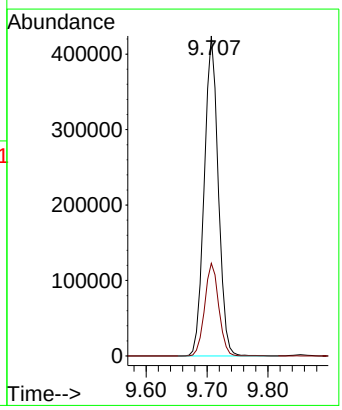


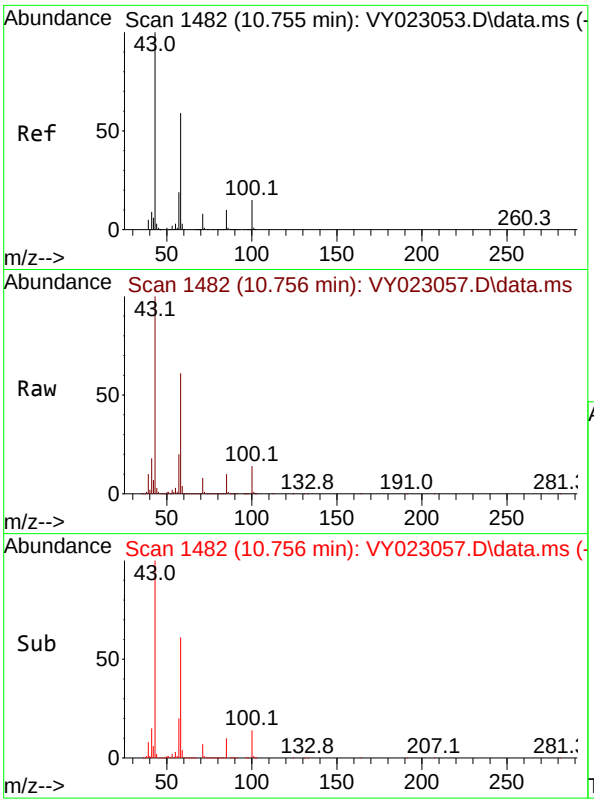


#58
2-Chloroethyl Vinyl ether
Concen: 273.240 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 678865

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.2	34.8





#59
2-Hexanone
Concen: 244.812 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 55174

Ion	Ratio	Lower	Upper
43	100		
58	59.5	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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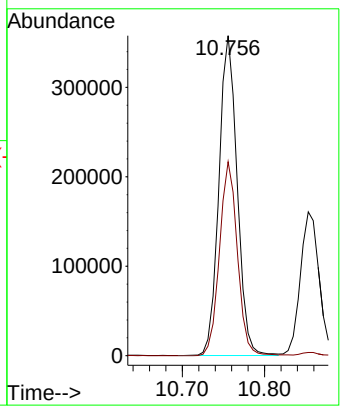
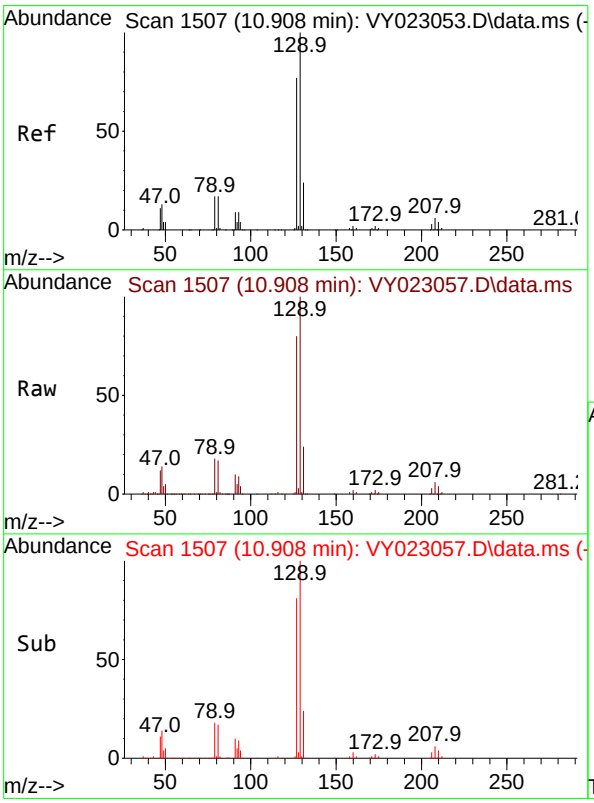
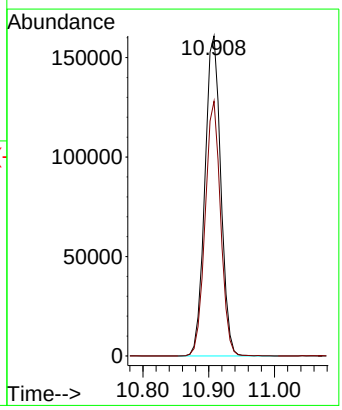


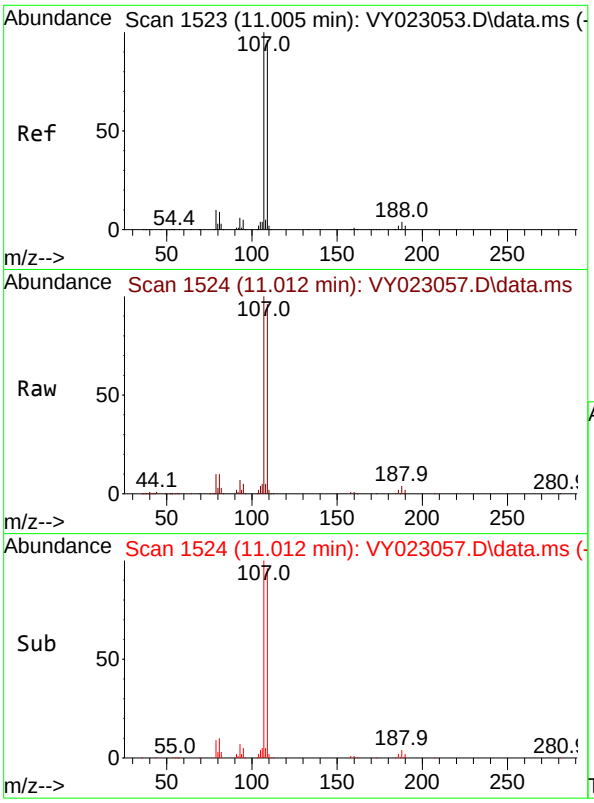


#60
Dibromochloromethane
Concen: 49.810 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:129 Resp: 270536

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5





#61
1,2-Dibromoethane
Concen: 49.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:107 Resp: 19033

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

Manual Integrations
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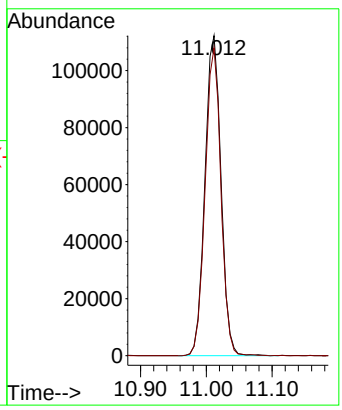
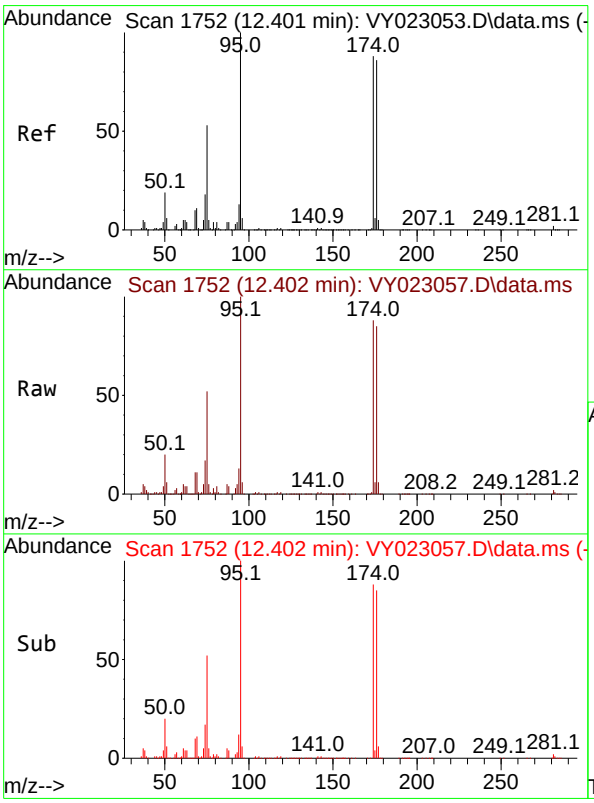
Supervised By :Semsettin Yesilyurt 08/14/2025

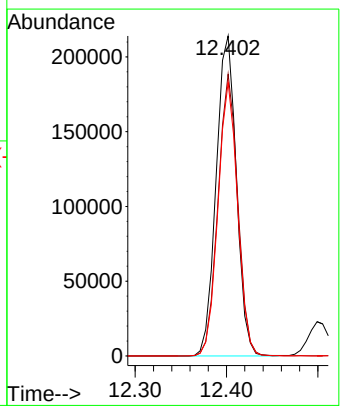


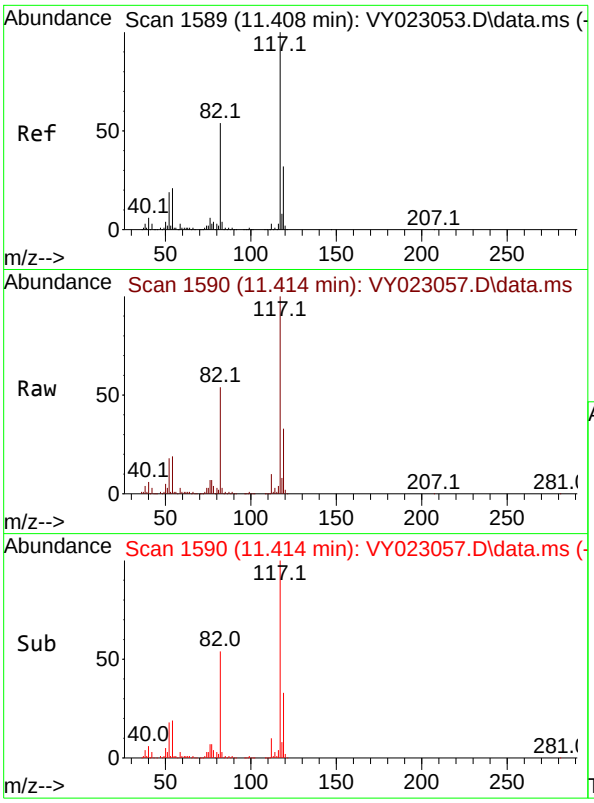


#62
4-Bromofluorobenzene
Concen: 51.500 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 95 Resp: 329022

Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	171.6
176	82.9	0.0	167.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 75655

Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.0
119	32.5	25.6	38.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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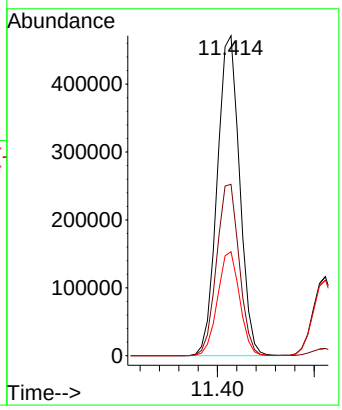
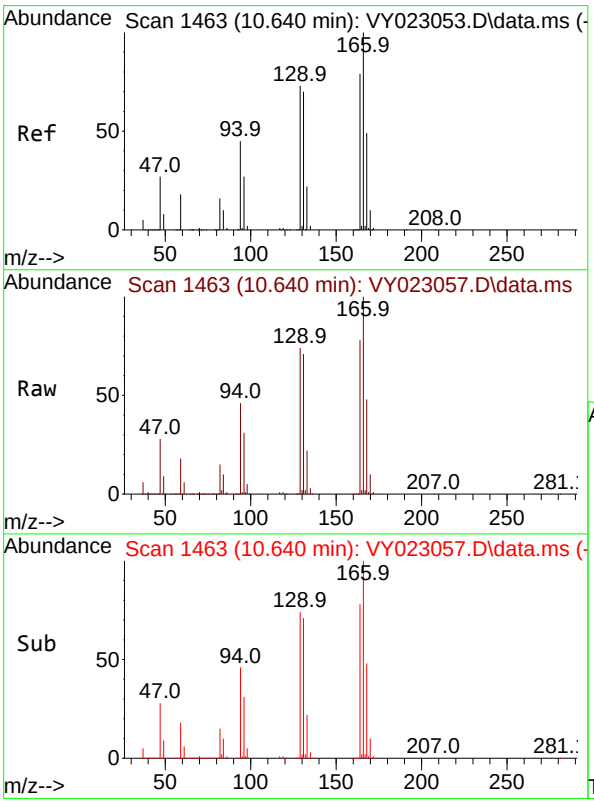
Supervised By :Semsettin Yesilyurt 08/14/2025

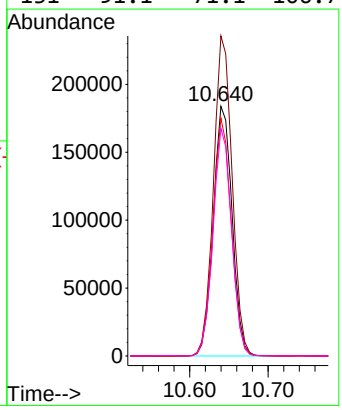


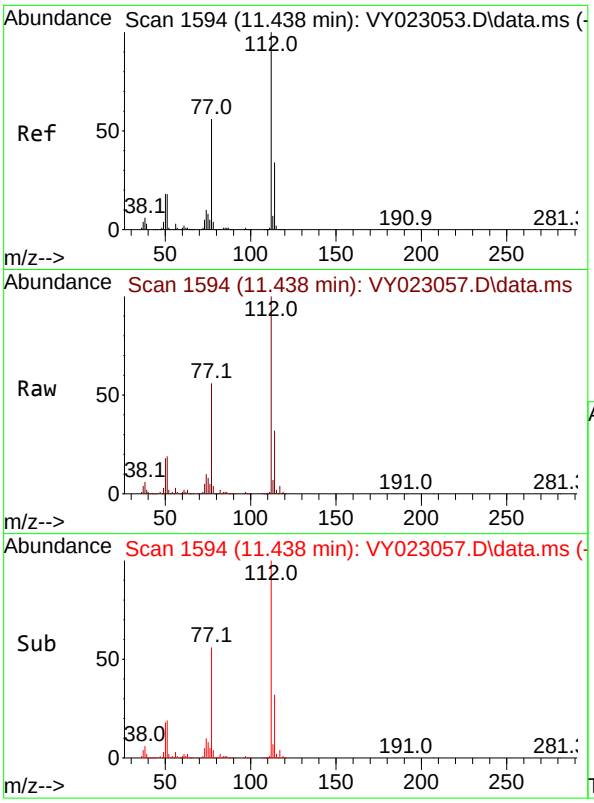


#64
Tetrachloroethene
Concen: 45.512 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:164 Resp: 307456

Ion	Ratio	Lower	Upper
164	100		
166	128.2	101.1	151.7
129	95.3	74.0	111.0
131	91.1	71.1	106.7

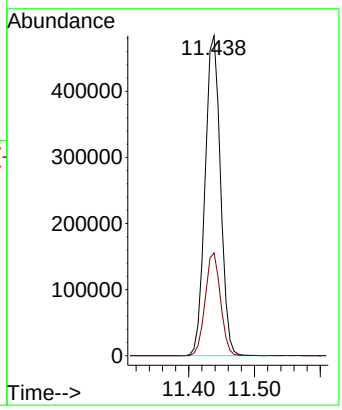




#65
Chlorobenzene
Concen: 48.275 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:112 Resp: 78779

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4



Instrument :
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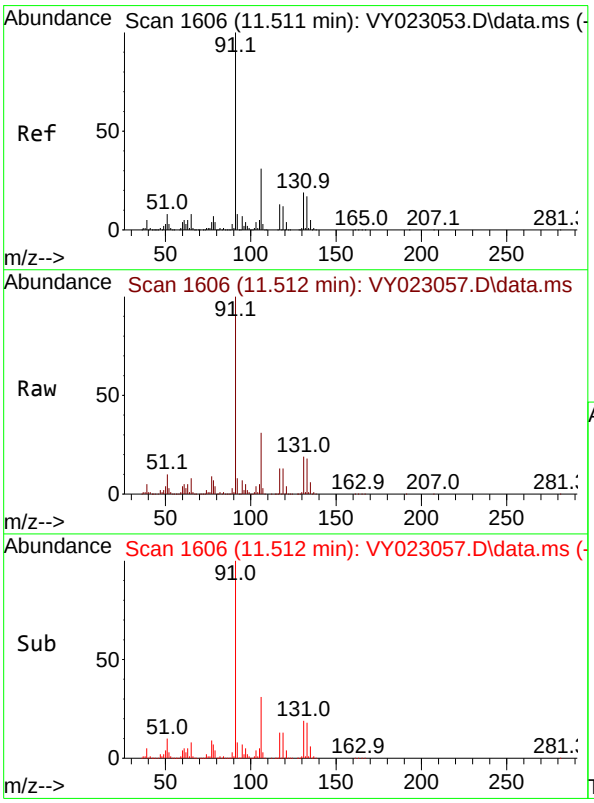
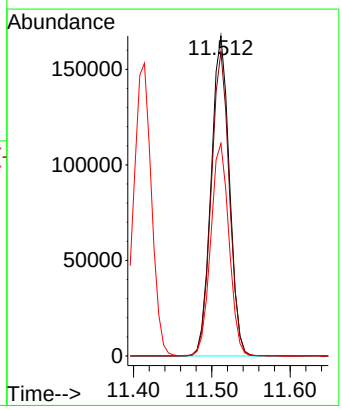
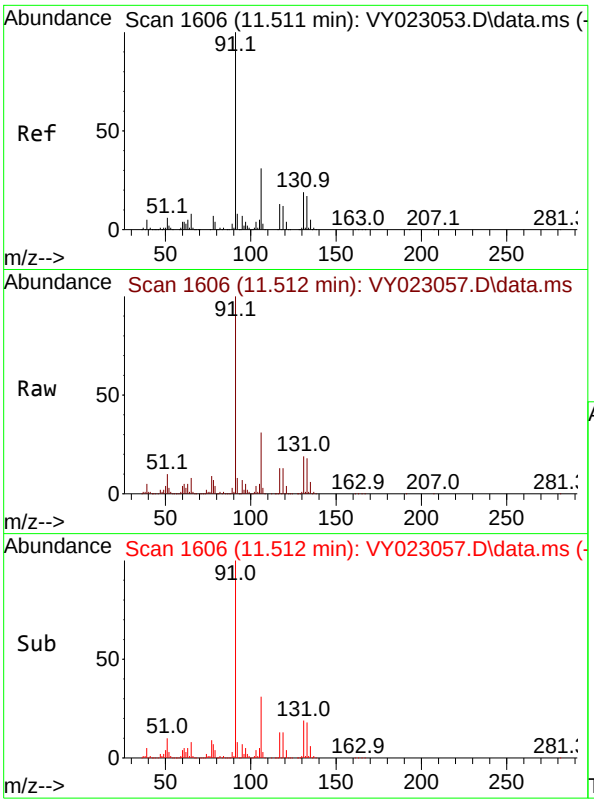


#66
1,1,1,2-Tetrachloroethane
Concen: 48.815 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:131 Resp: 270360

Ion	Ratio	Lower	Upper
131	100		
133	94.4	46.9	140.6
119	66.7	33.2	99.6

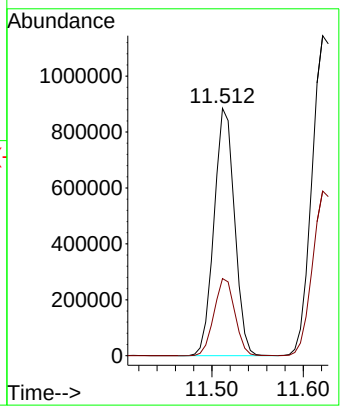




#67
Ethyl Benzene
Concen: 49.163 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 138064

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4



Instrument :
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ICVVY081225

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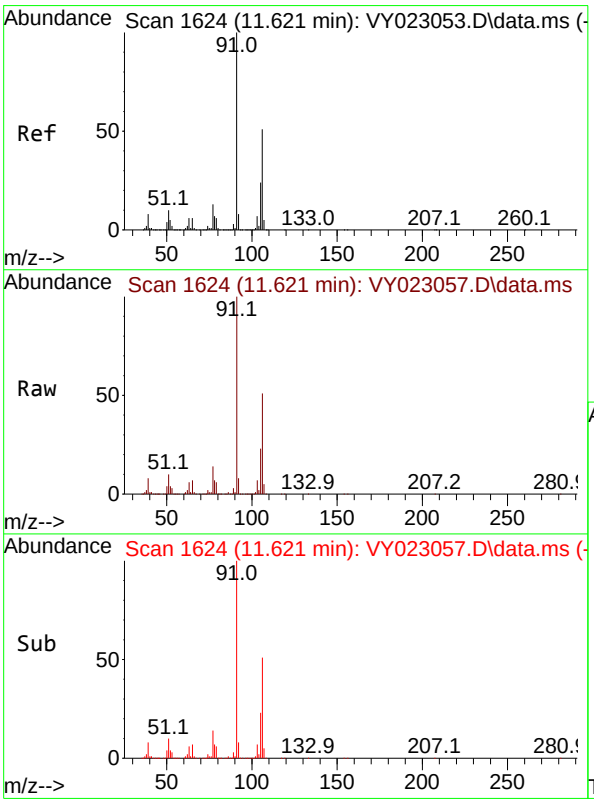
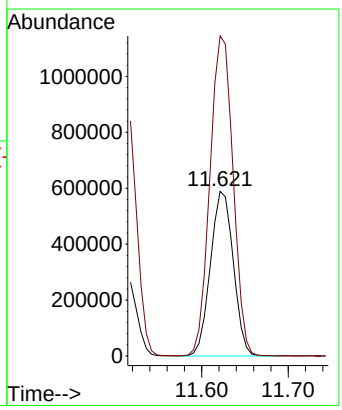
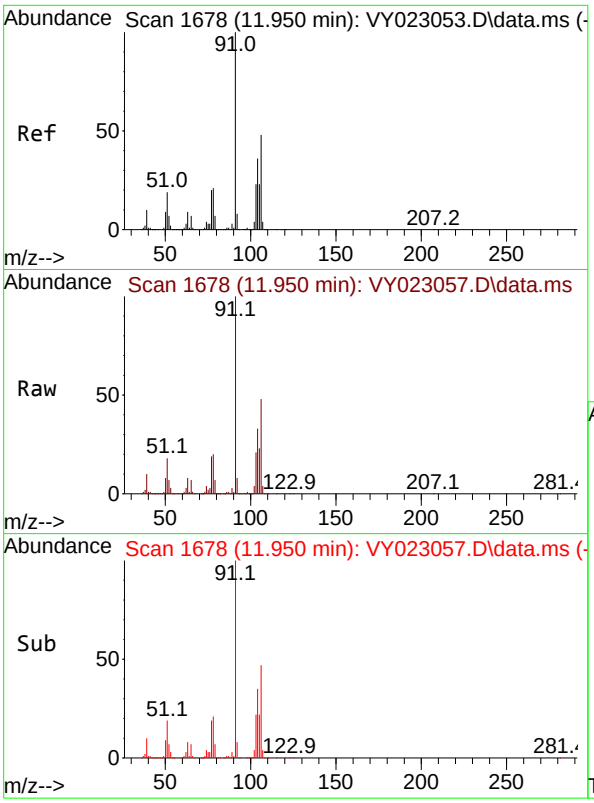


#68
m/p-Xylenes
Concen: 98.515 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 1080541

Ion	Ratio	Lower	Upper
106	100		
91	197.0	158.6	238.0





#69
o-Xylene
Concen: 49.645 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 50999

Ion	Ratio	Lower	Upper
106	100		
91	207.4	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
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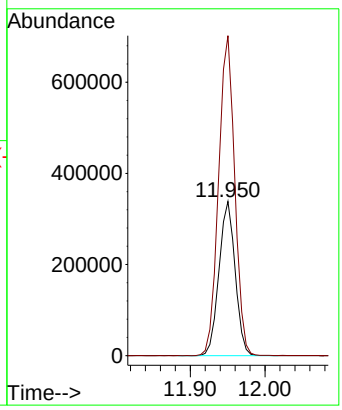
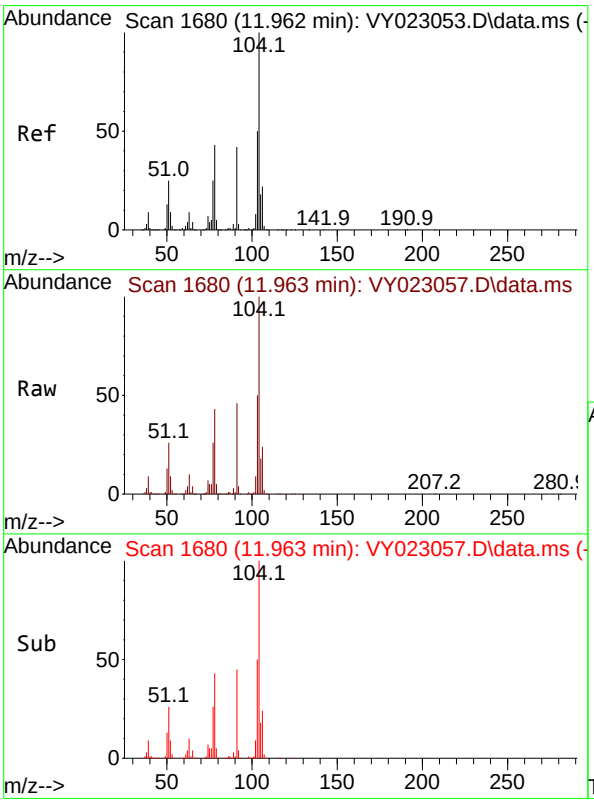
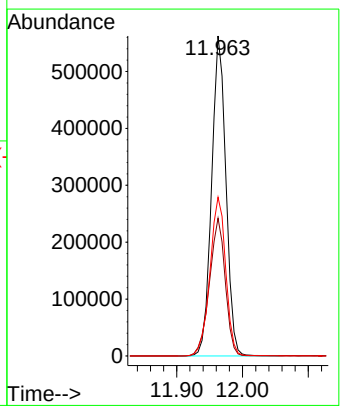


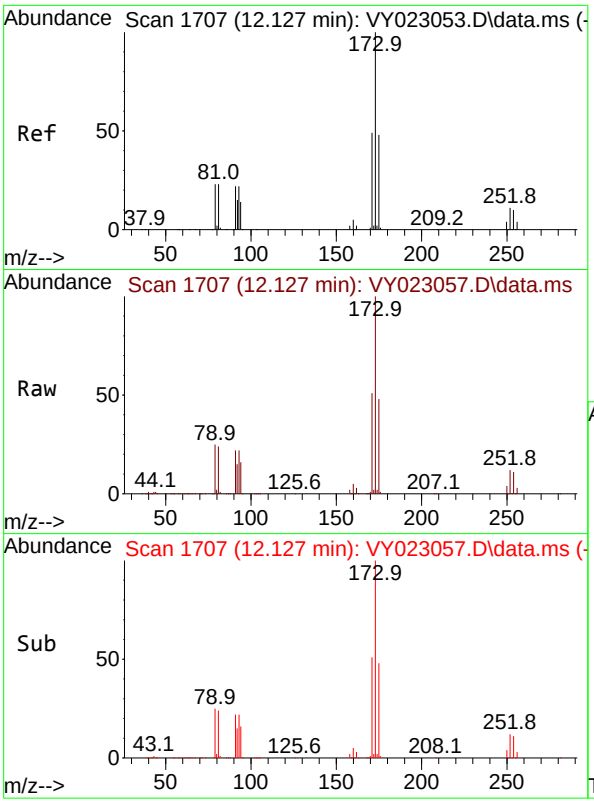


#70
Styrene
Concen: 50.733 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:104 Resp: 852310

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	54.6	43.7	65.5

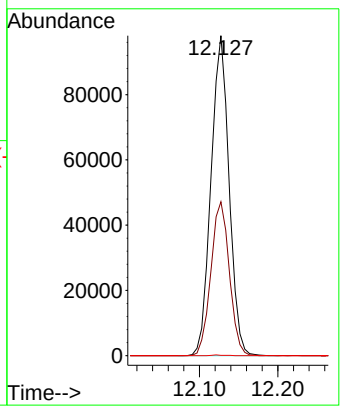




#71
Bromoform
Concen: 48.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:173 Resp: 15707

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.7
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
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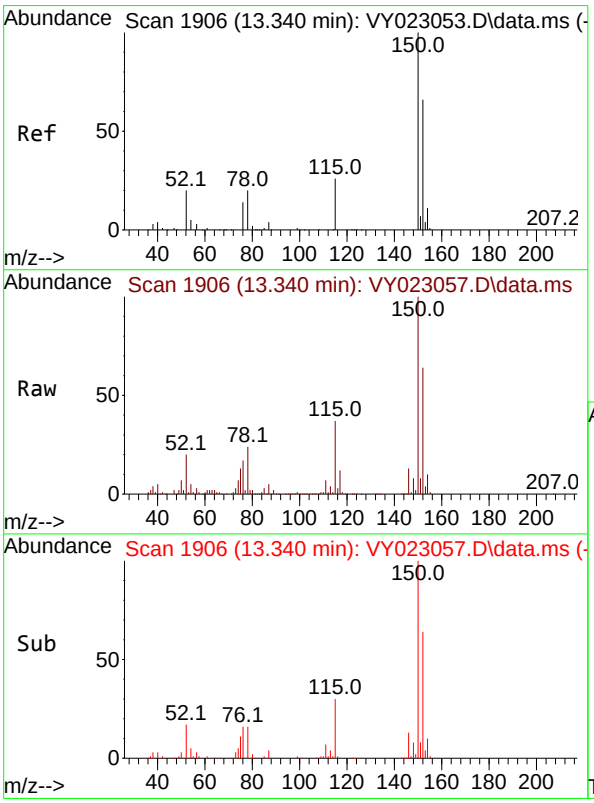
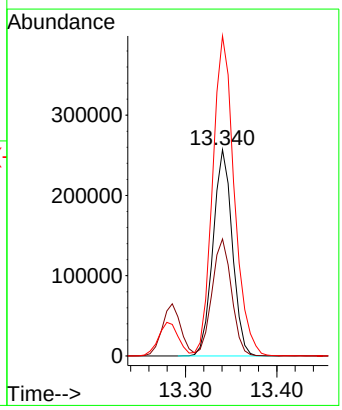
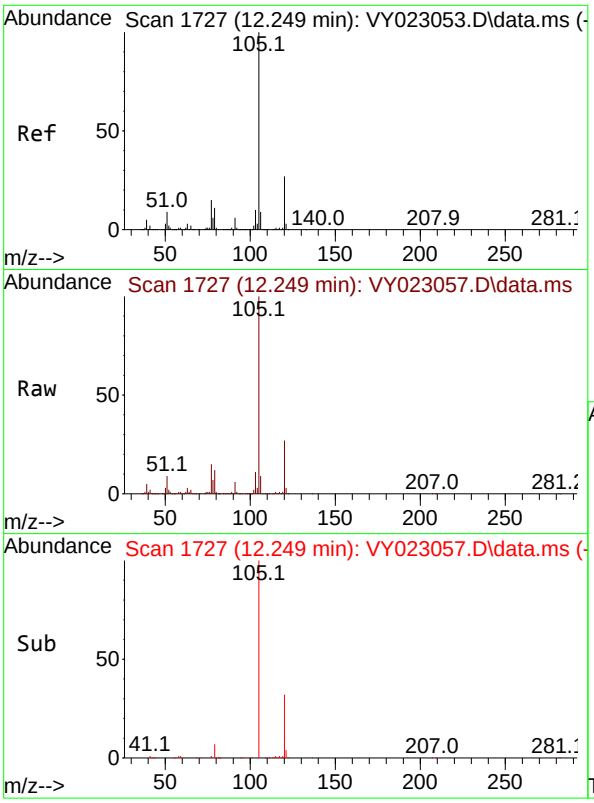


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:152 Resp: 376990

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.2	84.6
150	174.1	0.0	348.0

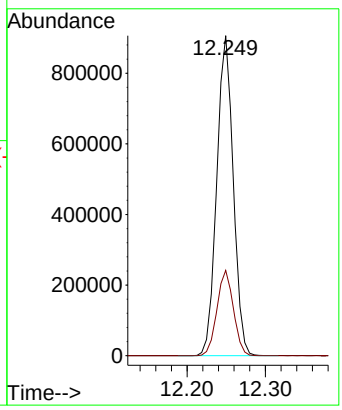




#73
Isopropylbenzene
Concen: 49.876 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 132707

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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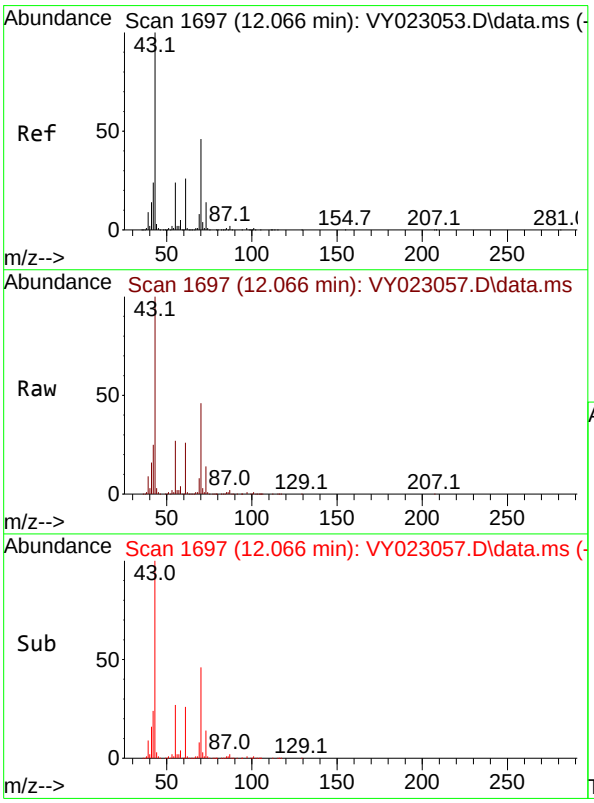
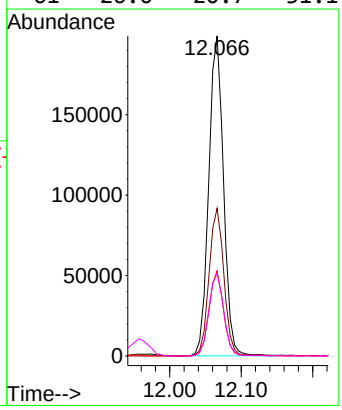
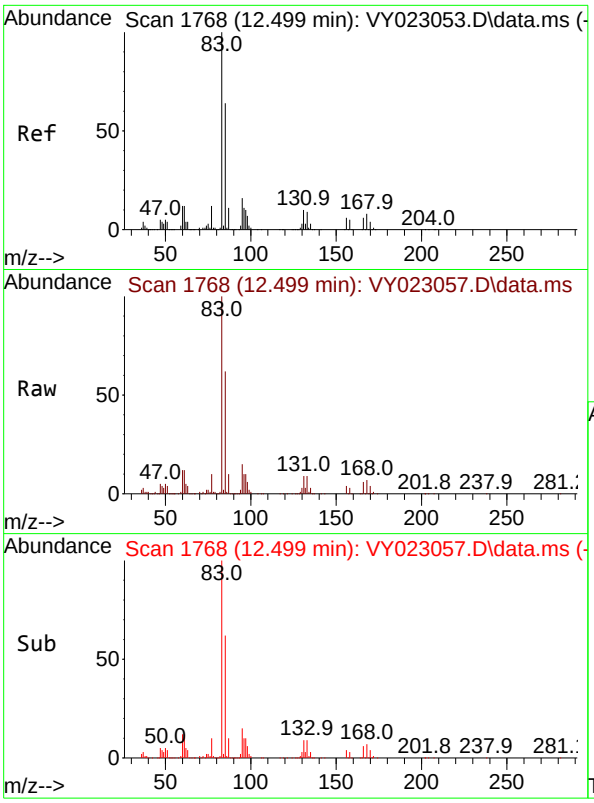


#74
N-amyl acetate
Concen: 50.529 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 285118

Ion	Ratio	Lower	Upper
43	100		
70	46.5	37.5	56.3
55	26.2	20.7	31.1
61	26.0	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 49.350 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 22420

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	65.0	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
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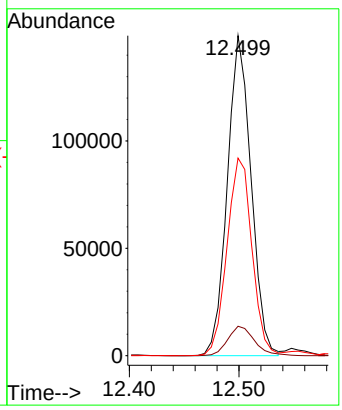
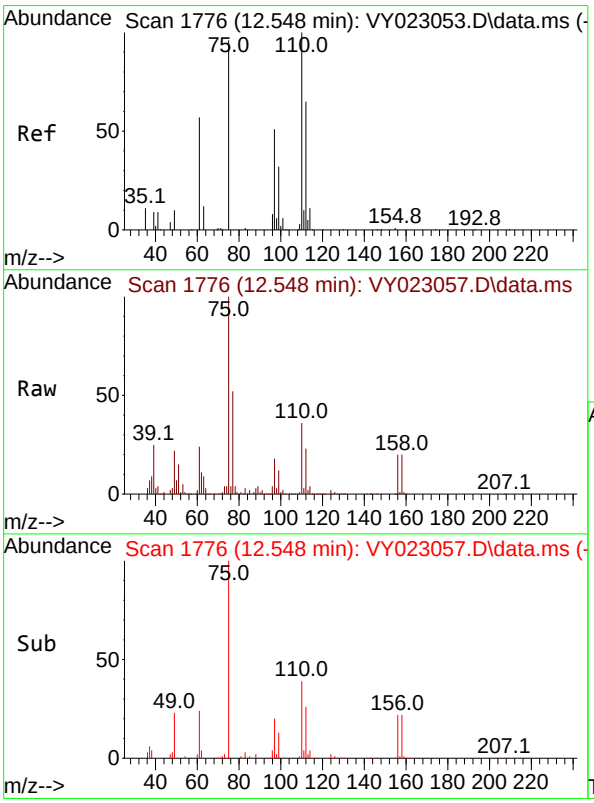
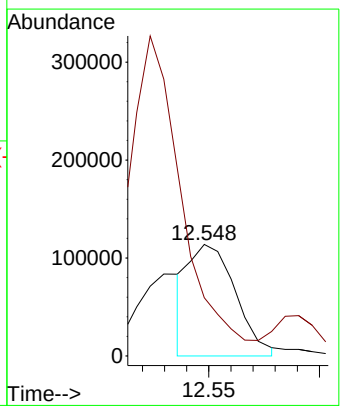


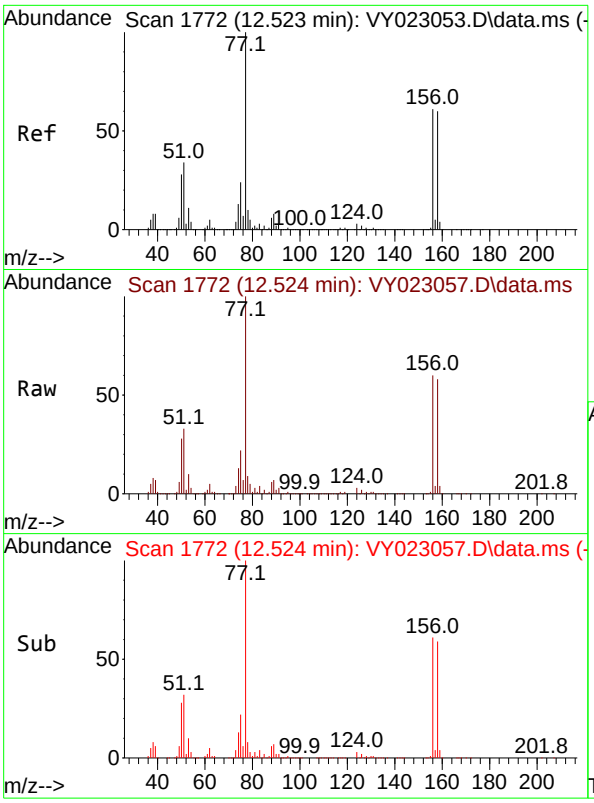


#76
1,2,3-Trichloropropane
Concen: 46.136 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 167859

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

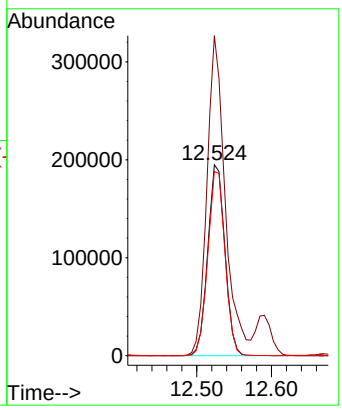




#77
Bromobenzene
Concen: 49.004 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:156 Resp: 31106

Ion	Ratio	Lower	Upper
156	100		
77	178.4	88.1	264.4
158	96.6	48.0	144.0



Instrument :
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ClientSampleId :
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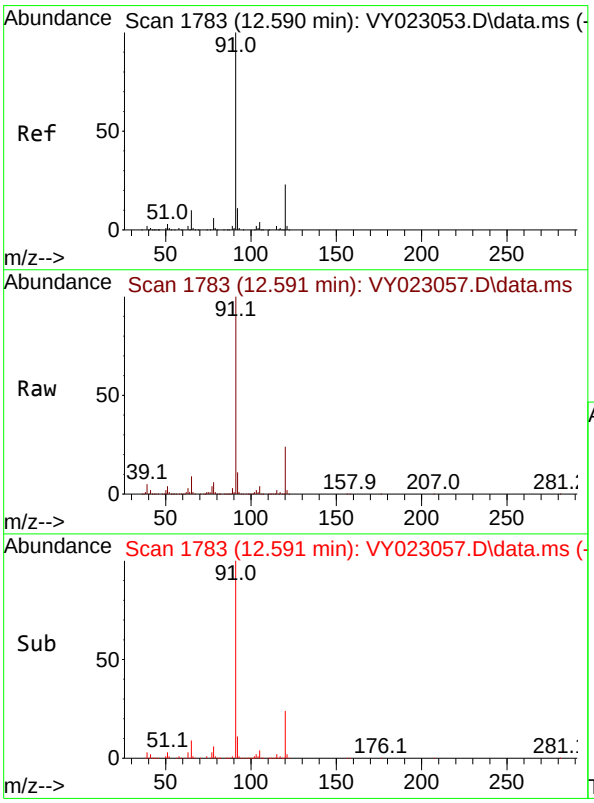
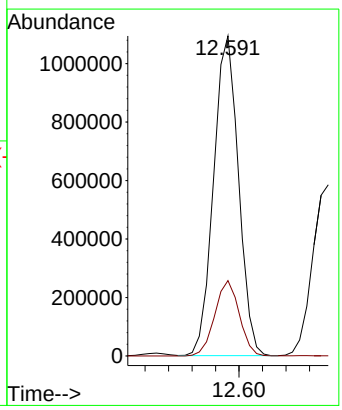
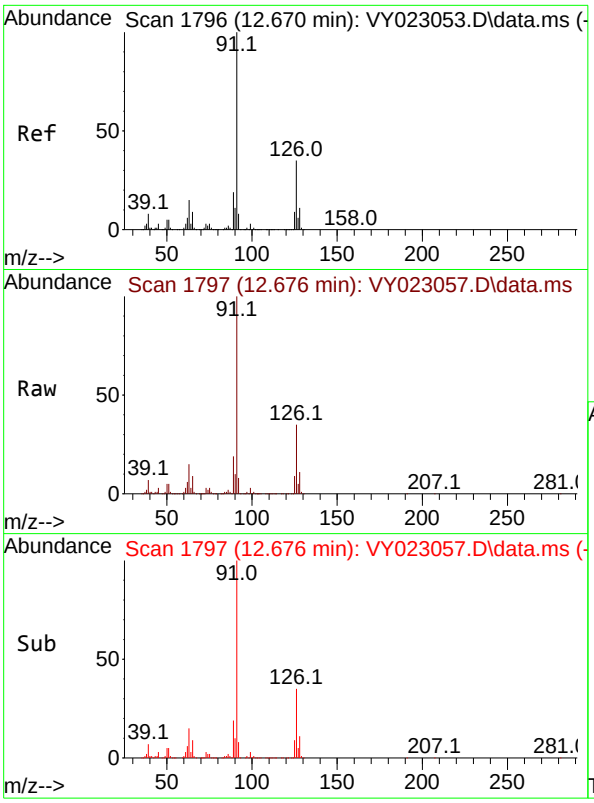


#78
n-propylbenzene
Concen: 50.853 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 1610911

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5

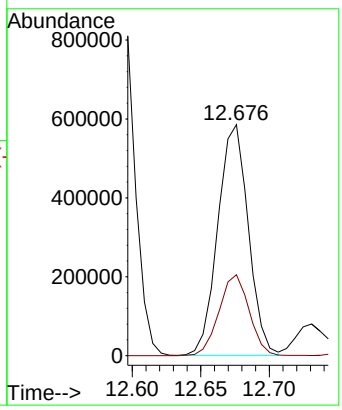




#79
2-Chlorotoluene
Concen: 49.898 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 90565

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
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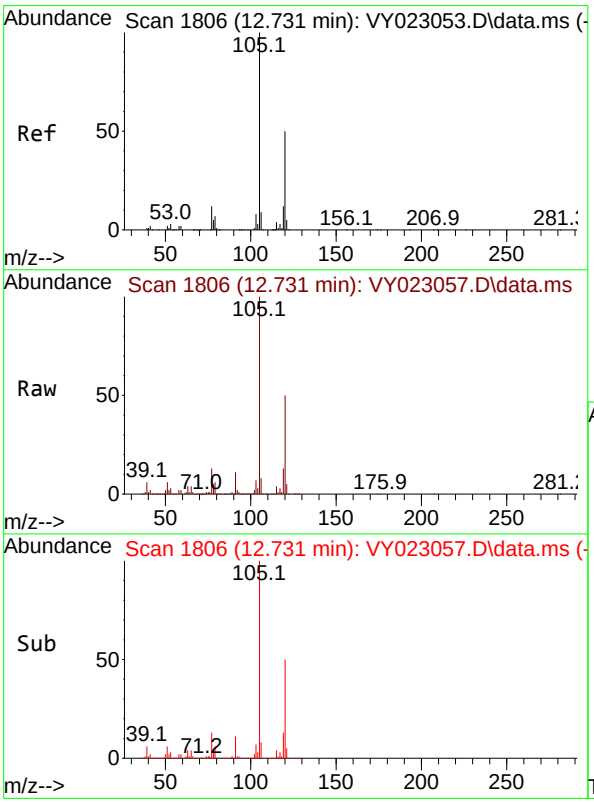
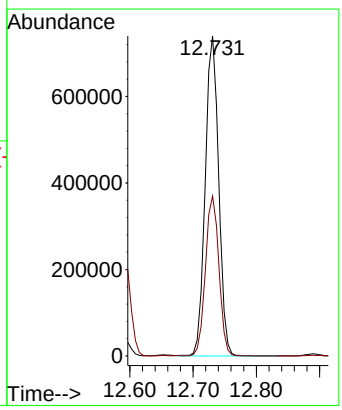
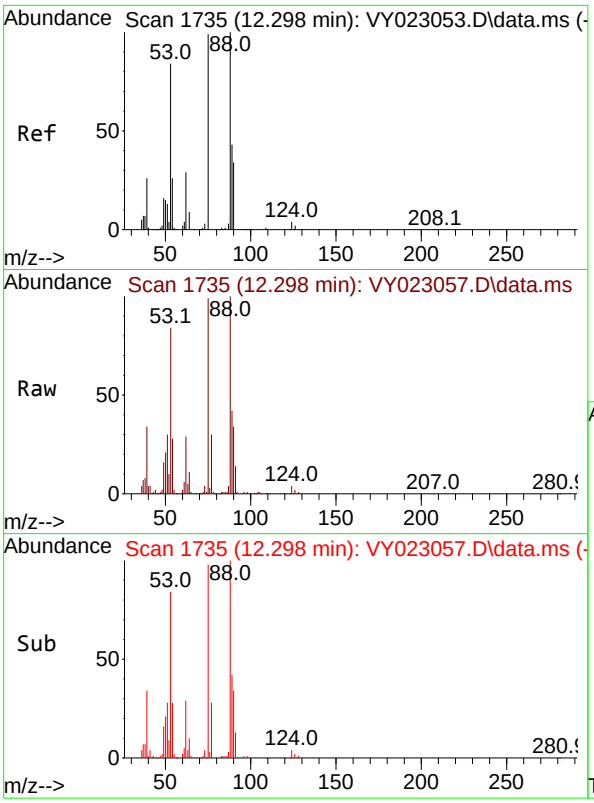


#80
1,3,5-Trimethylbenzene
Concen: 50.916 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1094902

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4

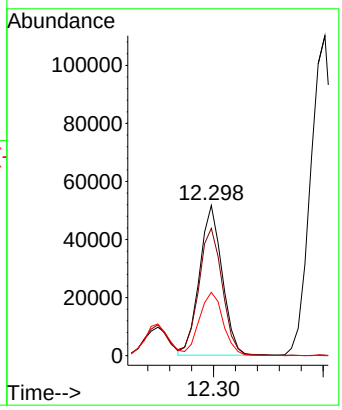




#81
trans-1,4-Dichloro-2-butene
Concen: 49.409 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 7426

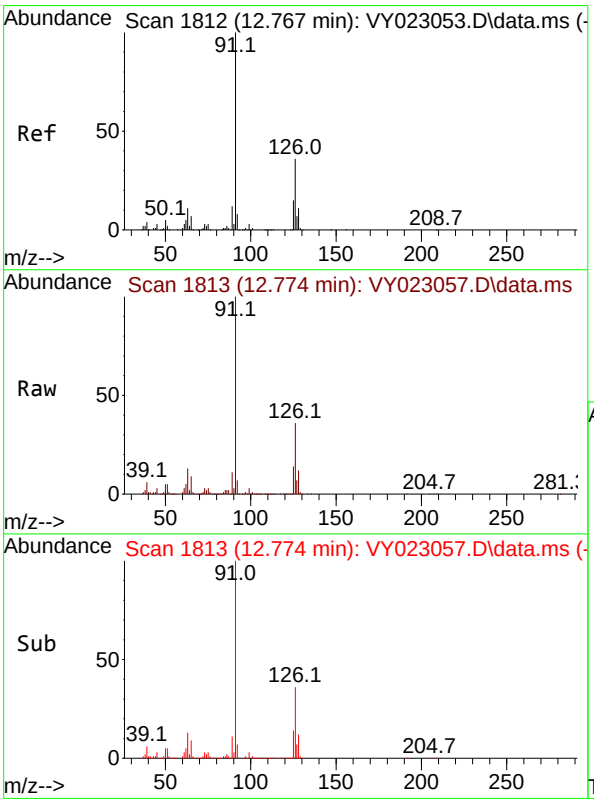
Ion	Ratio	Lower	Upper
75	100		
53	89.2	70.8	106.2
89	44.3	38.1	57.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

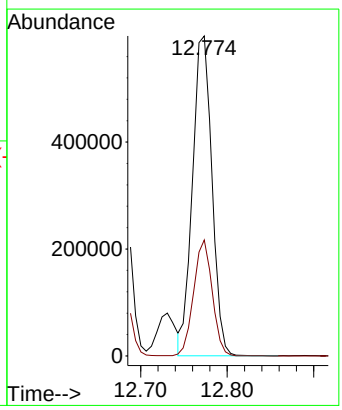
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

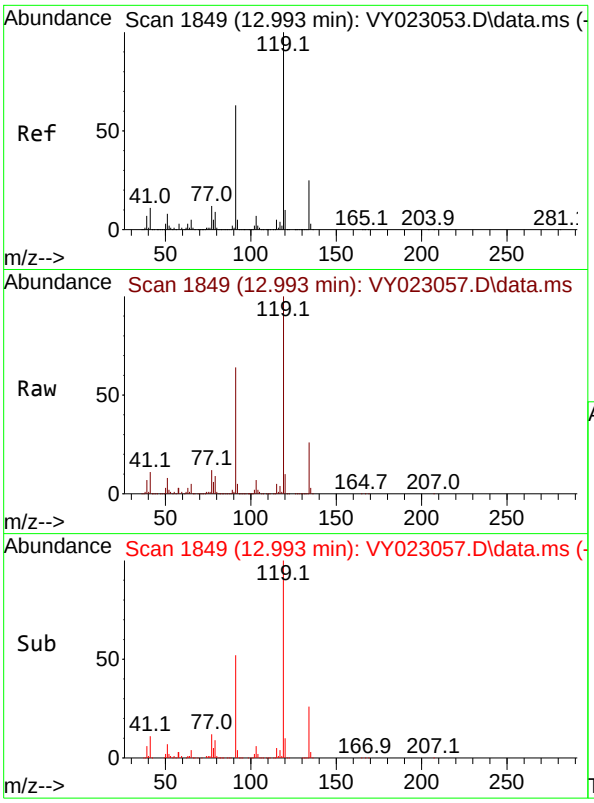


#82
4-Chlorotoluene
Concen: 49.505 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 932114

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0





#83
tert-Butylbenzene
Concen: 50.443 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:119 Resp: 97969

Ion	Ratio	Lower	Upper
119	100		
91	63.7	31.6	94.8
134	26.4	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
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Manual Integrations
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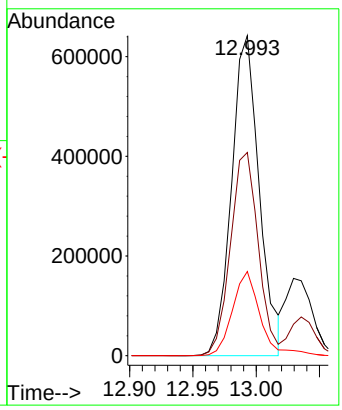
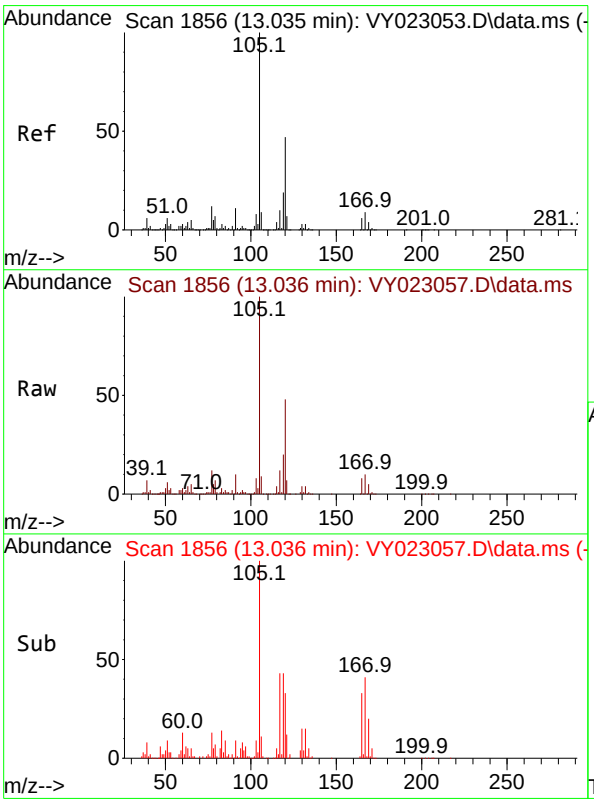
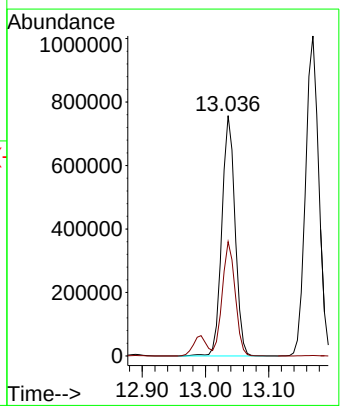


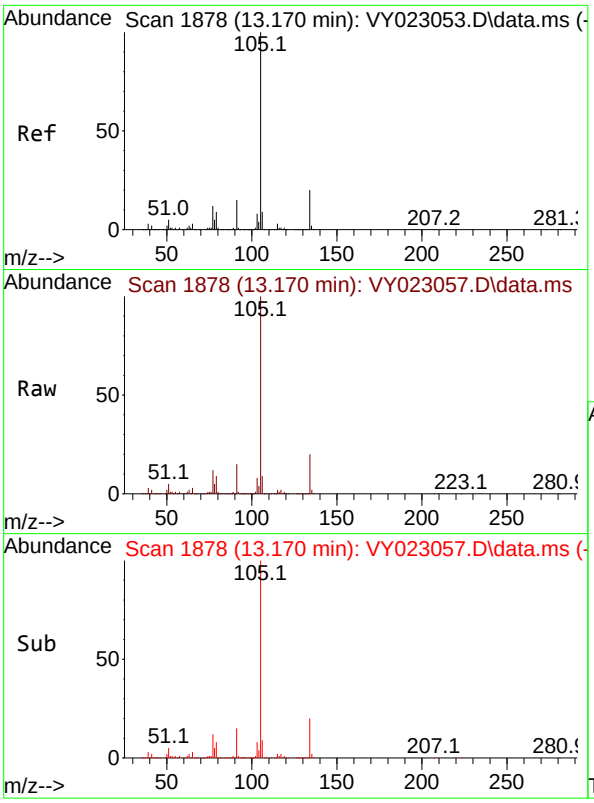


#84
1,2,4-Trimethylbenzene
Concen: 51.042 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1092616

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0

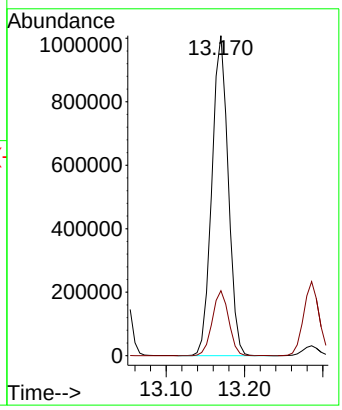




#85
sec-Butylbenzene
Concen: 51.154 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 145943

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4



Instrument :
MSVOA_Y
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Manual Integrations
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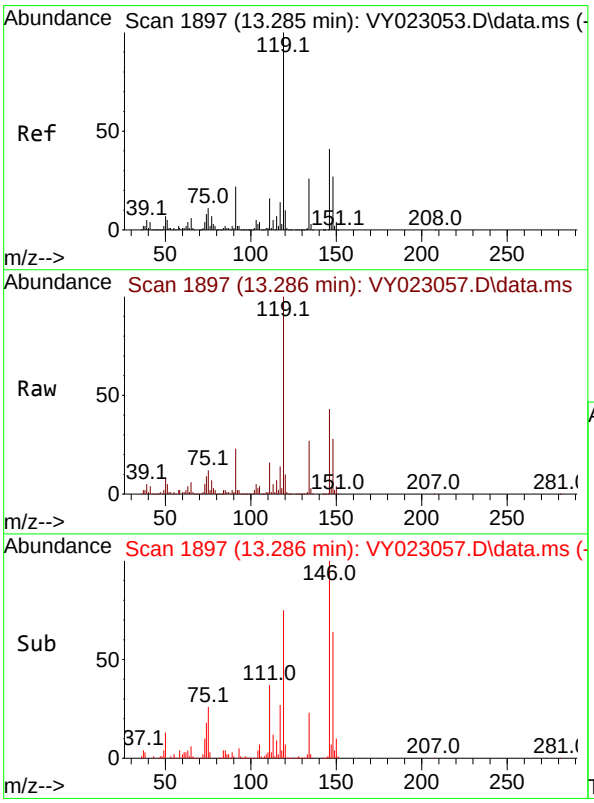
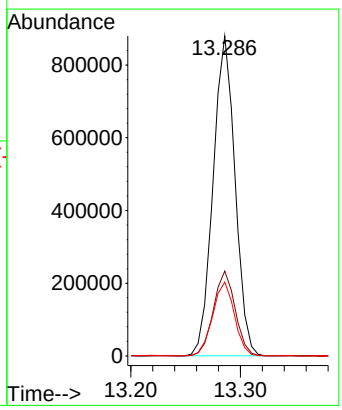
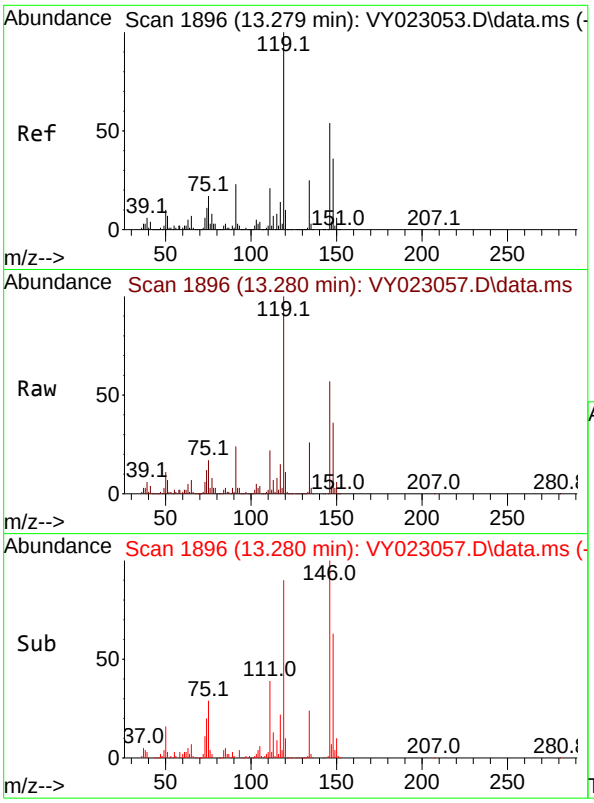


#86
p-Isopropyltoluene
Concen: 51.639 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:119 Resp: 1222900

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.6
91	22.9	11.3	33.8

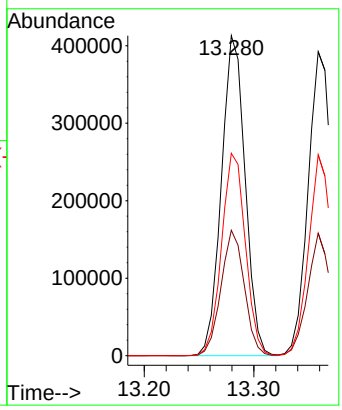




#87
1,3-Dichlorobenzene
Concen: 49.639 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 62137

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.7
148	63.5	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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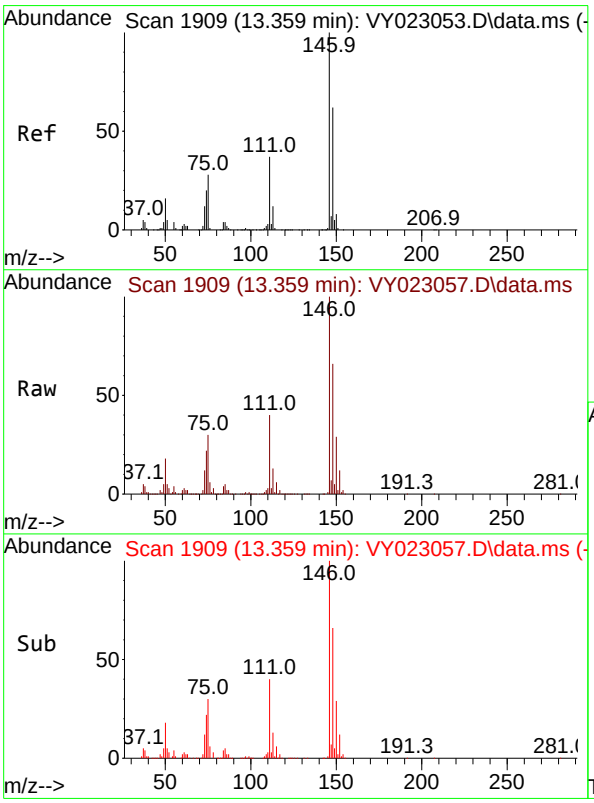
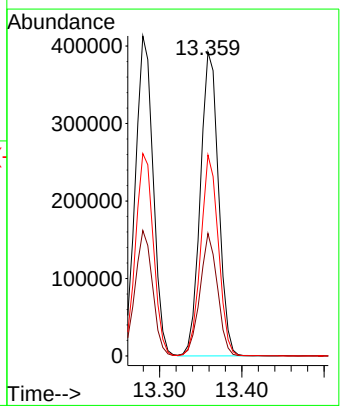
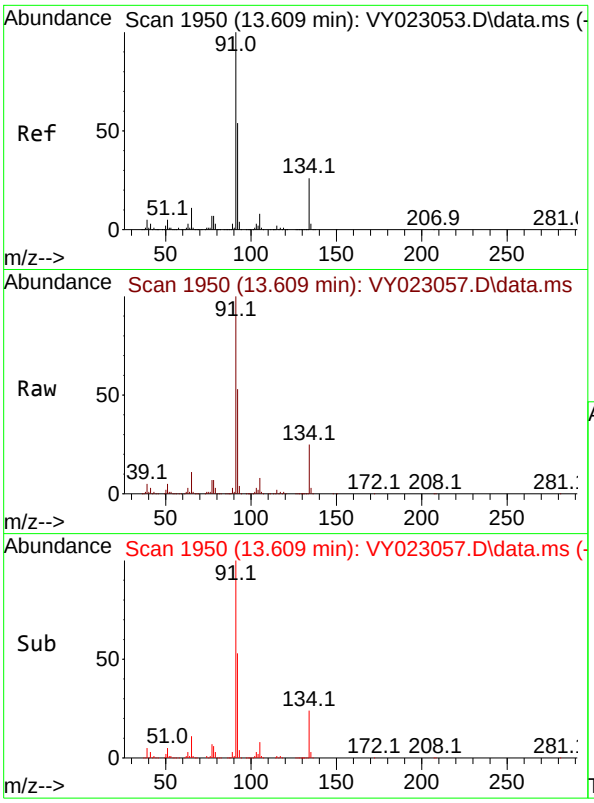


#88
1,4-Dichlorobenzene
Concen: 48.514 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 602429

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.1
148	64.1	31.6	94.7

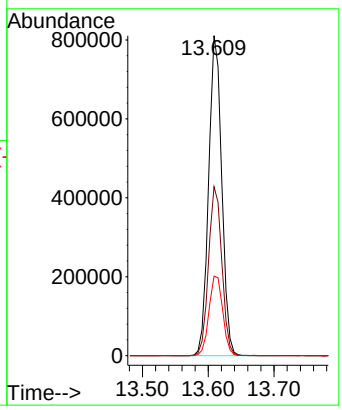




#89
n-Butylbenzene
Concen: 51.594 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 112218

Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.7
134	26.2	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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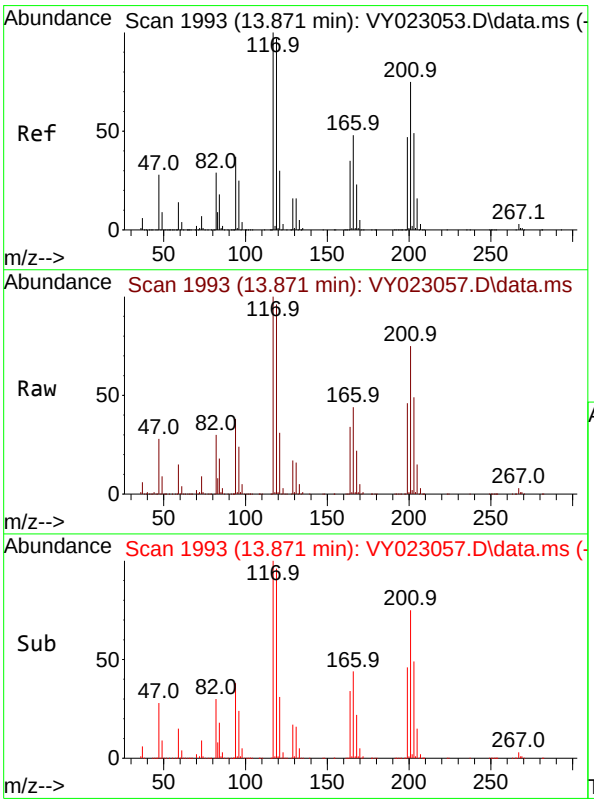
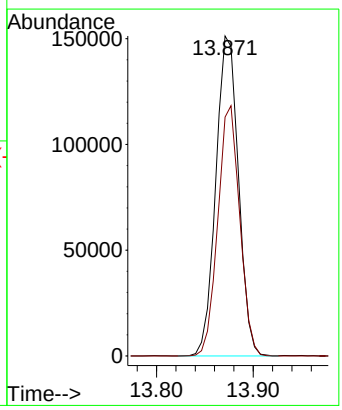
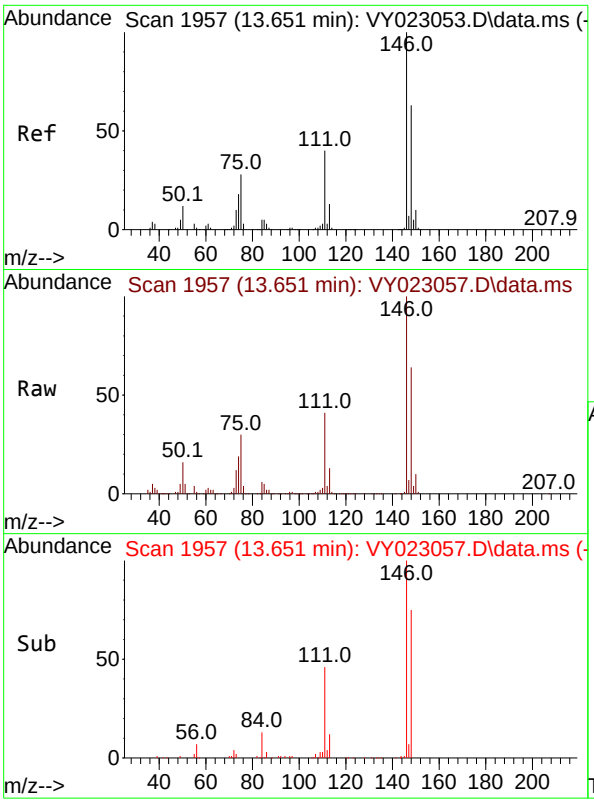


#90
Hexachloroethane
Concen: 50.617 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 245386

Ion	Ratio	Lower	Upper
117	100		
201	75.7	38.4	115.1

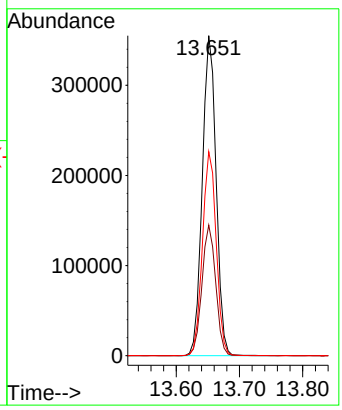




#91
1,2-Dichlorobenzene
Concen: 49.234 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 54050

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	63.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
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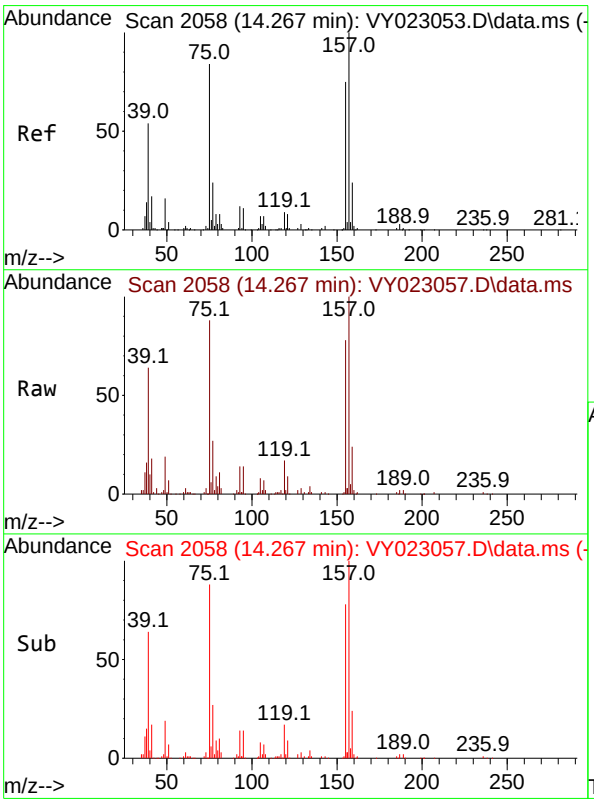
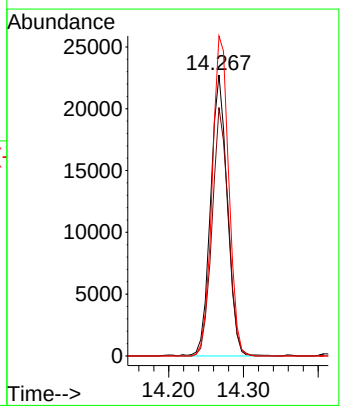
Supervised By :Semsettin Yesilyurt 08/14/2025

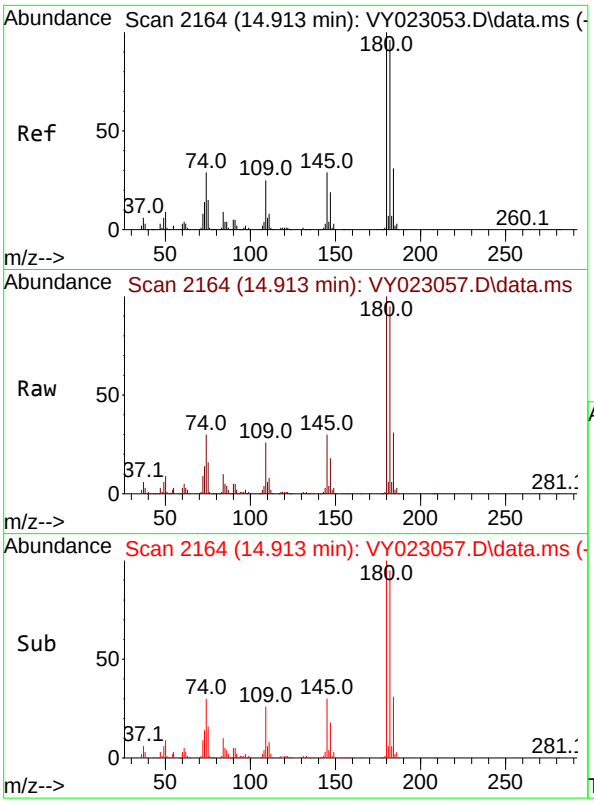


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.085 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35428

Ion	Ratio	Lower	Upper
75	100		
155	86.0	43.9	131.6
157	112.9	57.2	171.6





#93
1,2,4-Trichlorobenzene
Concen: 49.363 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:180 Resp: 32047

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.4
145	29.8	14.4	43.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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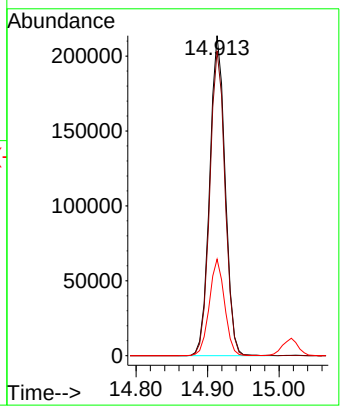
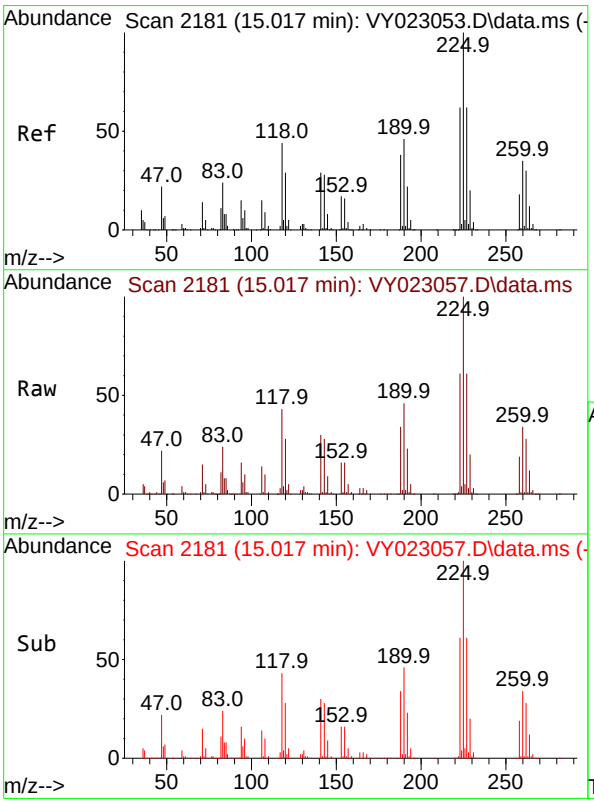
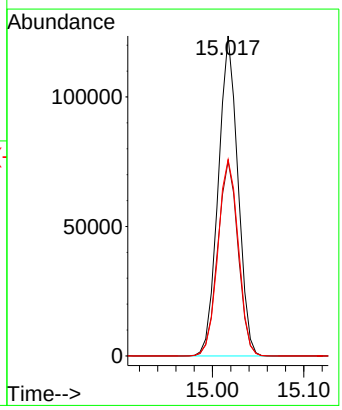


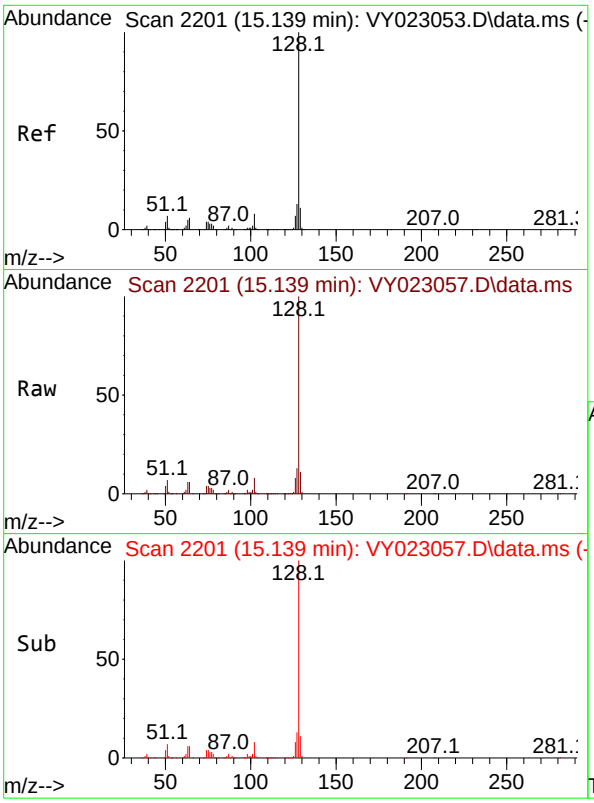


#94
Hexachlorobutadiene
Concen: 48.344 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:225 Resp: 184430

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.3	93.8
227	63.8	31.5	94.5

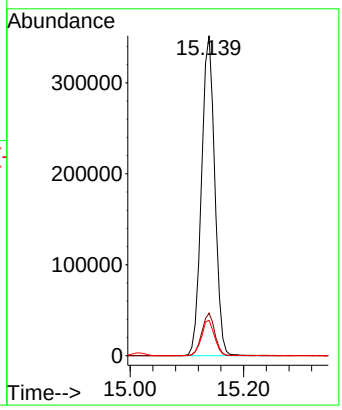




#95
Naphthalene
Concen: 51.623 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:128 Resp: 5714

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
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Manual Integrations
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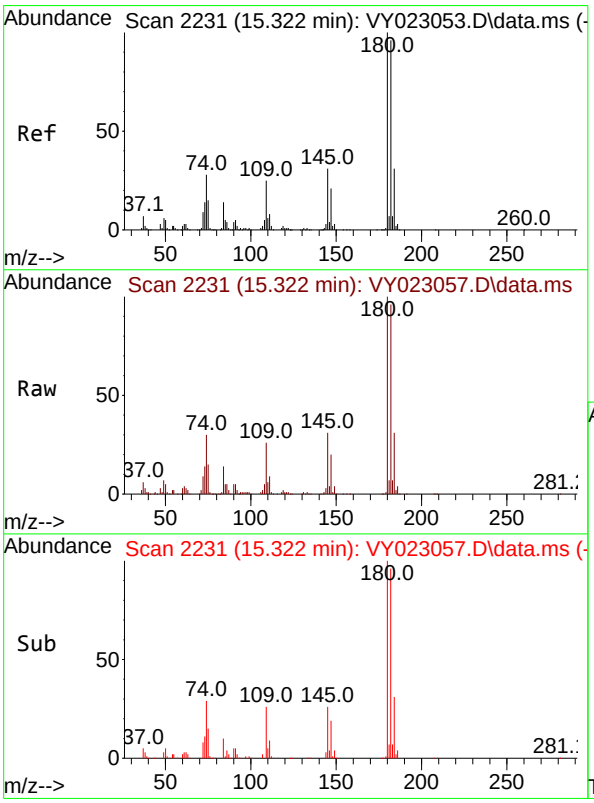
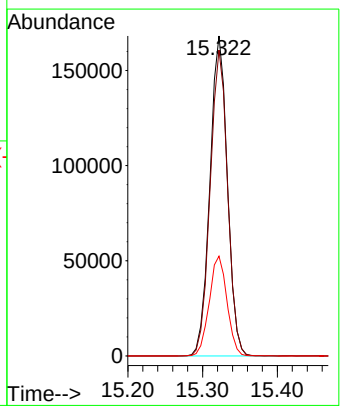


#96
1,2,3-Trichlorobenzene
Concen: 48.735 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:180 Resp: 272638

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.7
145	31.7	15.9	47.7



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	0.408	0.339	16.9	96	0.00
3	P	Chloromethane	0.661	0.644	2.6	104	0.00
4	C	Vinyl Chloride	0.817	0.788	3.5#	100	0.00
5	T	Bromomethane	0.610	0.573	6.1	104	0.00
6	T	Chloroethane	0.543	0.532	2.0	101	0.00
7	T	Trichlorofluoromethane	0.994	0.934	6.0	98	0.00
8	T	Diethyl Ether	0.263	0.251	4.6	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.468	4.5	99	0.00
10	T	Methyl Iodide	0.529	0.543	-2.6	97	0.00
11	T	Tert butyl alcohol	0.033	0.032	3.0	99	0.00
12	CM	1,1-Dichloroethene	0.482	0.460	4.6#	97	0.00
13	T	Acrolein	0.048	0.042	12.5	93	0.00
14	T	Allyl chloride	0.709	0.671	5.4	96	0.00
15	T	Acrylonitrile	0.107	0.104	2.8	96	0.00
16	T	Acetone	0.103	0.087	15.5	83	0.00
17	T	Carbon Disulfide	1.571	1.475	6.1	97	0.00
18	T	Methyl Acetate	0.307	0.319	-3.9	97	0.00
19	T	Methyl tert-butyl Ether	1.249	1.246	0.2	99	0.00
20	T	Methylene Chloride	0.620	0.536	13.5	103	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.528	2.4	99	0.00
22	T	Diisopropyl ether	1.541	1.541	0.0	100	0.00
23	T	Vinyl Acetate	0.852	0.826	3.1	96	0.00
24	P	1,1-Dichloroethane	0.942	0.915	2.9	98	0.00
25	T	2-Butanone	0.140	0.129	7.9	89	0.00
26	T	2,2-Dichloropropane	0.813	0.739	9.1	92	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.610	2.6	99	0.00
28	T	Bromochloromethane	0.374	0.376	-0.5	101	0.00
29	T	Tetrahydrofuran	0.087	0.086	1.1	97	0.00
30	C	Chloroform	0.971	0.941	3.1#	98	0.00
31	T	Cyclohexane	0.888	0.826	7.0	99	0.00
32	T	1,1,1-Trichloroethane	0.862	0.844	2.1	99	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.477	0.0	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.299	0.300	-0.3	102	0.00
36	T	1,1-Dichloropropene	0.445	0.429	3.6	98	0.00
37	T	Ethyl Acetate	0.187	0.185	1.1	98	0.00
38	T	Carbon Tetrachloride	0.483	0.464	3.9	99	0.00
39	T	Methylcyclohexane	0.586	0.581	0.9	102	0.00
40	TM	Benzene	1.370	1.327	3.1	99	0.00
41	T	Methacrylonitrile	0.108	0.104	3.7	94	0.00
42	TM	1,2-Dichloroethane	0.356	0.343	3.7	98	0.00
43	T	Isopropyl Acetate	0.378	0.371	1.9	99	0.00
44	TM	Trichloroethene	0.354	0.339	4.2	98	0.00
45	C	1,2-Dichloropropane	0.315	0.309	1.9#	99	0.00
46	T	Dibromomethane	0.181	0.176	2.8	98	0.00
47	T	Bromodichloromethane	0.466	0.461	1.1	99	0.00
48	T	Methyl methacrylate	0.181	0.183	-1.1	96	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	97	0.00
50	S	Toluene-d8	1.169	1.153	1.4	100	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.194	0.5	97	0.00
52	CM	Toluene	0.870	0.852	2.1#	99	0.00
53	T	t-1,3-Dichloropropene	0.422	0.419	0.7	99	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.488	2.2	98	0.00
55	T	1,1,2-Trichloroethane	0.242	0.237	2.1	98	0.00
56	T	Ethyl methacrylate	0.310	0.315	-1.6	98	0.00
57	T	1,3-Dichloropropane	0.411	0.404	1.7	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.160	-9.6	102	0.00
59	T	2-Hexanone	0.133	0.130	2.3	94	0.00
60	T	Dibromochloromethane	0.320	0.318	0.6	99	0.00
61	T	1,2-Dibromoethane	0.228	0.224	1.8	98	0.00
62	S	4-Bromofluorobenzene	0.376	0.387	-2.9	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.446	0.406	9.0	94	0.00
65	PM	Chlorobenzene	1.079	1.041	3.5	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.357	2.5	99	0.00
67	C	Ethyl Benzene	1.856	1.825	1.7#	99	0.00
68	T	m/p-Xylenes	0.725	0.714	1.5	100	0.00
69	T	o-Xylene	0.679	0.674	0.7	99	0.00
70	T	Styrene	1.110	1.127	-1.5	101	0.00
71	P	Bromoform	0.214	0.208	2.8	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.529	3.520	0.3	100	0.00
74	T	N-amyl acetate	0.748	0.756	-1.1	98	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.595	1.3	102	0.00
76	T	1,2,3-Trichloropropane	0.483	0.445	7.9	83	0.00
77	T	Bromobenzene	0.842	0.825	2.0	99	0.00
78	T	n-propylbenzene	4.201	4.273	-1.7	101	0.00
79	T	2-Chlorotoluene	2.407	2.402	0.2	101	0.00
80	T	1,3,5-Trimethylbenzene	2.852	2.904	-1.8	101	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.197	1.0	100	0.00
82	T	4-Chlorotoluene	2.497	2.473	1.0	100	0.00
83	T	tert-Butylbenzene	2.576	2.599	-0.9	100	0.00
84	T	1,2,4-Trimethylbenzene	2.839	2.898	-2.1	102	0.00
85	T	sec-Butylbenzene	3.784	3.871	-2.3	102	0.00
86	T	p-Isopropyltoluene	3.141	3.244	-3.3	102	0.00
87	T	1,3-Dichlorobenzene	1.660	1.648	0.7	102	0.00
88	T	1,4-Dichlorobenzene	1.647	1.598	3.0	100	0.00
89	T	n-Butylbenzene	2.885	2.977	-3.2	102	0.00
90	T	Hexachloroethane	0.643	0.651	-1.2	103	0.00
91	T	1,2-Dichlorobenzene	1.456	1.434	1.5	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.094	0.0	99	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.850	1.3	100	0.00
94	T	Hexachlorobutadiene	0.506	0.489	3.4	99	0.00
95	T	Naphthalene	1.468	1.516	-3.3	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.723	2.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	41.579	16.8	96	0.00
3	P	Chloromethane	50.000	48.732	2.5	104	0.00
4	C	Vinyl Chloride	50.000	48.198	3.6#	100	0.00
5	T	Bromomethane	50.000	46.983	6.0	104	0.00
6	T	Chloroethane	50.000	48.923	2.2	101	0.00
7	T	Trichlorofluoromethane	50.000	47.003	6.0	98	0.00
8	T	Diethyl Ether	50.000	47.787	4.4	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.725	4.5	99	0.00
10	T	Methyl Iodide	50.000	51.340	-2.7	97	0.00
11	T	Tert butyl alcohol	250.000	245.940	1.6	99	0.00
12	CM	1,1-Dichloroethene	50.000	47.686	4.6#	97	0.00
13	T	Acrolein	250.000	222.008	11.2	93	0.00
14	T	Allyl chloride	50.000	47.317	5.4	96	0.00
15	T	Acrylonitrile	250.000	242.779	2.9	96	0.00
16	T	Acetone	250.000	210.695	15.7	83	0.00
17	T	Carbon Disulfide	50.000	46.948	6.1	97	0.00
18	T	Methyl Acetate	50.000	51.972	-3.9	97	0.00
19	T	Methyl tert-butyl Ether	50.000	49.899	0.2	99	0.00
20	T	Methylene Chloride	50.000	49.960	0.1	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.765	2.5	99	0.00
22	T	Diisopropyl ether	50.000	50.011	-0.0	100	0.00
23	T	Vinyl Acetate	250.000	242.360	3.1	96	0.00
24	P	1,1-Dichloroethane	50.000	48.551	2.9	98	0.00
25	T	2-Butanone	250.000	230.028	8.0	89	0.00
26	T	2,2-Dichloropropane	50.000	45.475	9.0	92	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.720	2.6	99	0.00
28	T	Bromochloromethane	50.000	50.275	-0.5	101	0.00
29	T	Tetrahydrofuran	250.000	247.420	1.0	97	0.00
30	C	Chloroform	50.000	48.450	3.1#	98	0.00
31	T	Cyclohexane	50.000	46.526	6.9	99	0.00
32	T	1,1,1-Trichloroethane	50.000	48.933	2.1	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.038	-0.1	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.179	-0.4	102	0.00
36	T	1,1-Dichloropropene	50.000	48.193	3.6	98	0.00
37	T	Ethyl Acetate	50.000	49.621	0.8	98	0.00
38	T	Carbon Tetrachloride	50.000	48.030	3.9	99	0.00
39	T	Methylcyclohexane	50.000	49.625	0.8	102	0.00
40	TM	Benzene	50.000	48.428	3.1	99	0.00
41	T	Methacrylonitrile	50.000	48.269	3.5	94	0.00
42	TM	1,2-Dichloroethane	50.000	48.162	3.7	98	0.00
43	T	Isopropyl Acetate	50.000	49.094	1.8	99	0.00
44	TM	Trichloroethene	50.000	47.803	4.4	98	0.00
45	C	1,2-Dichloropropane	50.000	48.961	2.1#	99	0.00
46	T	Dibromomethane	50.000	48.679	2.6	98	0.00
47	T	Bromodichloromethane	50.000	49.463	1.1	99	0.00
48	T	Methyl methacrylate	50.000	50.520	-1.0	96	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	971.749	2.8	97	0.00
50	S	Toluene-d8	50.000	49.306	1.4	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	248.943	0.4	97	0.00
52	CM	Toluene	50.000	48.963	2.1#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	49.699	0.6	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.965	2.1	98	0.00
55	T	1,1,2-Trichloroethane	50.000	48.867	2.3	98	0.00
56	T	Ethyl methacrylate	50.000	50.779	-1.6	98	0.00
57	T	1,3-Dichloropropane	50.000	49.228	1.5	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	273.240	-9.3	102	0.00
59	T	2-Hexanone	250.000	244.812	2.1	94	0.00
60	T	Dibromochloromethane	50.000	49.810	0.4	99	0.00
61	T	1,2-Dibromoethane	50.000	49.197	1.6	98	0.00
62	S	4-Bromofluorobenzene	50.000	51.500	-3.0	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	45.512	9.0	94	0.00
65	PM	Chlorobenzene	50.000	48.275	3.5	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.815	2.4	99	0.00
67	C	Ethyl Benzene	50.000	49.163	1.7#	99	0.00
68	T	m/p-Xylenes	100.000	98.515	1.5	100	0.00
69	T	o-Xylene	50.000	49.645	0.7	99	0.00
70	T	Styrene	50.000	50.733	-1.5	101	0.00
71	P	Bromoform	50.000	48.525	3.0	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	49.876	0.2	100	0.00
74	T	N-amyl acetate	50.000	50.529	-1.1	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.350	1.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	46.136	7.7	83	0.00
77	T	Bromobenzene	50.000	49.004	2.0	99	0.00
78	T	n-propylbenzene	50.000	50.853	-1.7	101	0.00
79	T	2-Chlorotoluene	50.000	49.898	0.2	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.916	-1.8	101	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.409	1.2	100	0.00
82	T	4-Chlorotoluene	50.000	49.505	1.0	100	0.00
83	T	tert-Butylbenzene	50.000	50.443	-0.9	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.042	-2.1	102	0.00
85	T	sec-Butylbenzene	50.000	51.154	-2.3	102	0.00
86	T	p-Isopropyltoluene	50.000	51.639	-3.3	102	0.00
87	T	1,3-Dichlorobenzene	50.000	49.639	0.7	102	0.00
88	T	1,4-Dichlorobenzene	50.000	48.514	3.0	100	0.00
89	T	n-Butylbenzene	50.000	51.594	-3.2	102	0.00
90	T	Hexachloroethane	50.000	50.617	-1.2	103	0.00
91	T	1,2-Dichlorobenzene	50.000	49.234	1.5	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.085	-0.2	99	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.363	1.3	100	0.00
94	T	Hexachlorobutadiene	50.000	48.344	3.3	99	0.00
95	T	Naphthalene	50.000	51.623	-3.2	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.735	2.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VW032080.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_W
Calibration Date/Time: 08/14/2025 09:27
Lab File ID: VW032080.D
Init. Calib. Date(s): 08/11/2025 08/11/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 08:25 11:08
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.358	0.356		-0.56	20
Chloromethane	0.482	0.429	0.1	-11	20
Vinyl Chloride	0.583	0.555		-4.8	20
Bromomethane	0.437	0.471		7.78	20
Chloroethane	0.386	0.395		2.33	20
Trichlorofluoromethane	0.467	0.539		15.42	20
1,1,2-Trichlorotrifluoroethane	0.551	0.609		10.53	20
1,1-Dichloroethene	0.606	0.656		8.25	20
Acetone	0.167	0.198		18.56	20
Carbon Disulfide	1.628	1.465		-10.01	20
Methyl tert-butyl Ether	1.068	1.075		0.65	20
Methyl Acetate	0.530	0.535		0.94	20
Methylene Chloride	0.774	0.665		-14.08	20
trans-1,2-Dichloroethene	0.644	0.645		0.16	20
1,1-Dichloroethane	1.189	1.171	0.1	-1.51	20
Cyclohexane	1.031	0.928		-9.99	20
2-Butanone	0.238	0.258		8.4	20
Carbon Tetrachloride	0.439	0.512		16.63	20
cis-1,2-Dichloroethene	0.752	0.779		3.59	20
Bromochloromethane	0.541	0.510		-5.73	20
Chloroform	1.260	1.337		6.11	20
1,1,1-Trichloroethane	0.915	0.941		2.84	20
Methylcyclohexane	0.555	0.577		3.96	20
Benzene	1.415	1.526		7.84	20
1,2-Dichloroethane	0.453	0.524		15.67	20
Trichloroethene	0.337	0.379		12.46	20
1,2-Dichloropropane	0.342	0.367		7.31	20
Bromodichloromethane	0.509	0.582		14.34	20
4-Methyl-2-Pentanone	0.279	0.333		19.35	20
Toluene	0.892	0.978		9.64	20
t-1,3-Dichloropropene	0.476	0.531		11.56	20
cis-1,3-Dichloropropene	0.541	0.595		9.98	20
1,1,2-Trichloroethane	0.293	0.332		13.31	20
2-Hexanone	0.193	0.234		21.24	20
Dibromochloromethane	0.335	0.404		20.6	20
1,2-Dibromoethane	0.285	0.331		16.14	20
Tetrachloroethene	0.289	0.334		15.57	20
Chlorobenzene	1.088	1.216	0.3	11.77	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VW032080.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2820

Instrument ID: MSVOA_W Calibration Date/Time: 08/14/2025 09:27

Lab File ID: VW032080.D Init. Calib. Date(s): 08/11/2025 08/11/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 08:25 11:08

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	2.010		9.06	20
m/p-Xylenes	0.711	0.801		12.66	20
o-Xylene	0.657	0.764		16.29	20
Styrene	1.168	1.351		15.67	20
Bromoform	0.194	0.248	0.1	27.83	20
Isopropylbenzene	3.494	3.656		4.64	20
1,1,2,2-Tetrachloroethane	0.830	0.866	0.3	4.34	20
1,3-Dichlorobenzene	1.661	1.866		12.34	20
1,4-Dichlorobenzene	1.678	1.832		9.18	20
1,2-Dichlorobenzene	1.504	1.699		12.97	20
1,2-Dibromo-3-Chloropropane	0.147	0.155		5.44	20
1,2,4-Trichlorobenzene	0.900	0.991		10.11	20
1,2,3-Trichlorobenzene	0.819	0.932		13.8	20
1,2-Dichloroethane-d4	0.723	0.728		0.69	20
Dibromofluoromethane	0.323	0.346		7.12	20
Toluene-d8	1.195	1.227		2.68	20
4-Bromofluorobenzene	0.440	0.443		0.68	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	209331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	369087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	337227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	174813	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	152426	50.347	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 100.700%			
35) Dibromofluoromethane	7.904	113	127528	53.483	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 106.960%			
50) Toluene-d8	10.324	98	452920	51.355	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 102.720%			
62) 4-Bromofluorobenzene	12.617	95	163398	50.275	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 100.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	74536	49.784	ug/l	98
3) Chloromethane	2.253	50	89872	44.563	ug/l	95
4) Vinyl Chloride	2.405	62	116200	47.634	ug/l	98
5) Bromomethane	2.820	94	98568	53.858	ug/l	100
6) Chloroethane	2.972	64	82661	51.208	ug/l	98
7) Trichlorofluoromethane	3.307	101	112860	57.752	ug/l	96
8) Diethyl Ether	3.716	74	86491	54.020	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.106	101	127479	55.292	ug/l	96
10) Methyl Iodide	4.313	142	168357	51.502	ug/l	96
11) Tert butyl alcohol	5.222	59	47413	241.851	ug/l	100
12) 1,1-Dichloroethene	4.076	96	137220	54.052	ug/l	94
13) Acrolein	3.935	56	45869	146.845	ug/l	99
14) Allyl chloride	4.704	41	166676	45.111	ug/l #	87
15) Acrylonitrile	5.405	53	193220	253.370	ug/l	99
16) Acetone	4.161	43	207328	295.783	ug/l	97
17) Carbon Disulfide	4.423	76	306638	45.000	ug/l	97
18) Methyl Acetate	4.710	43	112047	50.516	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	225122	50.329	ug/l	97
20) Methylene Chloride	4.960	84	139212	42.955	ug/l	98
21) trans-1,2-Dichloroethene	5.459	96	134920	50.080	ug/l	98
22) Diisopropyl ether	6.337	45	389232	49.971	ug/l	92
23) Vinyl Acetate	6.282	43	1373340	268.547	ug/l	99
24) 1,1-Dichloroethane	6.246	63	245164	49.263	ug/l	99
25) 2-Butanone	7.197	43	270175	271.199	ug/l	99
26) 2,2-Dichloropropane	7.185	77	124724	49.956	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	163086	51.787	ug/l	97
28) Bromochloromethane	7.532	49	106726	47.126	ug/l	97
29) Tetrahydrofuran	7.557	42	172032	261.846	ug/l	100
30) Chloroform	7.691	83	279930	53.058	ug/l	99
31) Cyclohexane	7.971	56	194201	45.011	ug/l	99
32) 1,1,1-Trichloroethane	7.886	97	196892	51.378	ug/l	99
36) 1,1-Dichloropropene	8.093	75	178210	53.016	ug/l	98
37) Ethyl Acetate	7.276	43	115111	58.145	ug/l	96
38) Carbon Tetrachloride	8.081	117	189059	58.281	ug/l	98
39) Methylcyclohexane	9.343	83	213123	52.018	ug/l	96
40) Benzene	8.337	78	563104	53.892	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	61383m	54.674	ug/l		
42) 1,2-Dichloroethane	8.410	62	193320	57.820	ug/l		98
43) Isopropyl Acetate	8.435	43	208154	57.148	ug/l		98
44) Trichloroethene	9.105	130	139933	56.237	ug/l		89
45) 1,2-Dichloropropane	9.373	63	135567	53.705	ug/l		100
46) Dibromomethane	9.465	93	95991	58.920	ug/l		99
47) Bromodichloromethane	9.654	83	214831	57.226	ug/l		100
48) Methyl methacrylate	9.440	41	97630	55.521	ug/l	#	88
49) 1,4-Dioxane	9.465	88	23861	1132.752	ug/l		98
51) 4-Methyl-2-Pentanone	10.215	43	613885	298.600	ug/l		96
52) Toluene	10.392	92	360912	54.839	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	196142	55.768	ug/l		100
54) cis-1,3-Dichloropropene	10.074	75	219444	54.997	ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	122561	56.613	ug/l		98
56) Ethyl methacrylate	10.648	69	164035	56.621	ug/l	#	91
57) 1,3-Dichloropropane	10.934	76	206568	54.740	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	410338	256.070	ug/l		99
59) 2-Hexanone	10.971	43	431742	303.226	ug/l		96
60) Dibromochloromethane	11.129	129	149280	60.364	ug/l		99
61) 1,2-Dibromoethane	11.239	107	122248	58.108	ug/l		98
64) Tetrachloroethene	10.867	164	112551	57.783	ug/l		91
65) Chlorobenzene	11.660	112	410189	55.882	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.727	131	133382	58.241	ug/l		98
67) Ethyl Benzene	11.733	91	677681	54.505	ug/l		96
68) m/p-Xylenes	11.836	106	540433	112.646	ug/l		97
69) o-Xylene	12.166	106	257799	58.137	ug/l		97
70) Styrene	12.178	104	455535	57.835	ug/l		99
71) Bromoform	12.348	173	83619	63.831	ug/l	#	99
73) Isopropylbenzene	12.464	105	639037	52.307	ug/l		99
74) N-amyl acetate	12.269	43	194883	55.601	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	151408	52.197	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	111615m	47.043	ug/l		
77) Bromobenzene	12.745	156	156846	53.753	ug/l		93
78) n-propylbenzene	12.800	91	803277	53.406	ug/l		100
79) 2-Chlorotoluene	12.891	91	475026	51.172	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	559898	53.983	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	46191	50.402	ug/l		91
82) 4-Chlorotoluene	12.989	91	510140	51.725	ug/l		97
83) tert-Butylbenzene	13.202	119	472615	54.905	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	560238	53.062	ug/l		98
85) sec-Butylbenzene	13.379	105	672760	51.695	ug/l		99
86) p-Isopropyltoluene	13.495	119	580472	53.502	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	326126	56.169	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	320333	54.595	ug/l		97
89) n-Butylbenzene	13.818	91	565150	53.618	ug/l		99
90) Hexachloroethane	14.086	117	102479	51.649	ug/l		96
91) 1,2-Dichlorobenzene	13.866	146	296975	56.464	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	27059	52.473	ug/l		96
93) 1,2,4-Trichlorobenzene	15.128	180	173211	55.052	ug/l		98
94) Hexachlorobutadiene	15.226	225	81528	57.968	ug/l		91
95) Naphthalene	15.360	128	444478	57.653	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	162937	56.917	ug/l		93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
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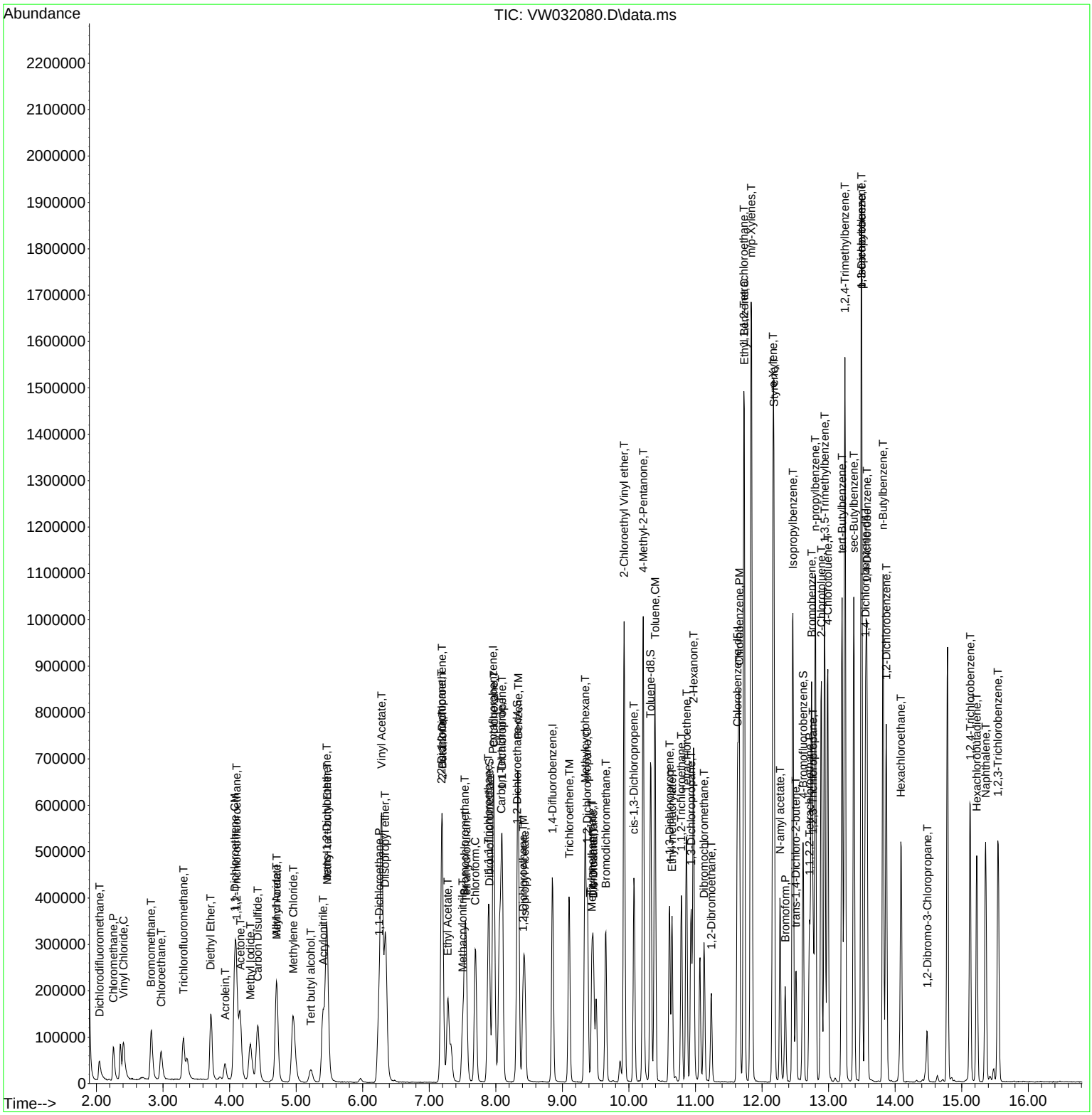
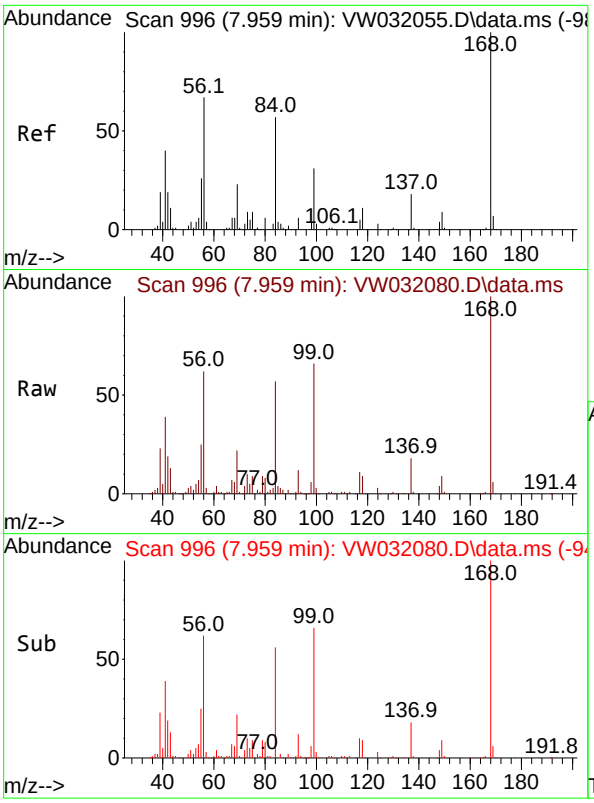
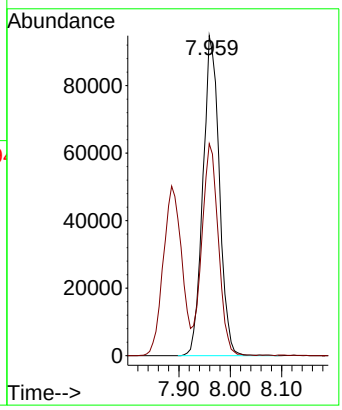




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:168 Resp: 20933

Ion	Ratio	Lower	Upper
168	100		
99	66.1	56.0	84.0



Instrument :
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ClientSampleId :
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APPROVED

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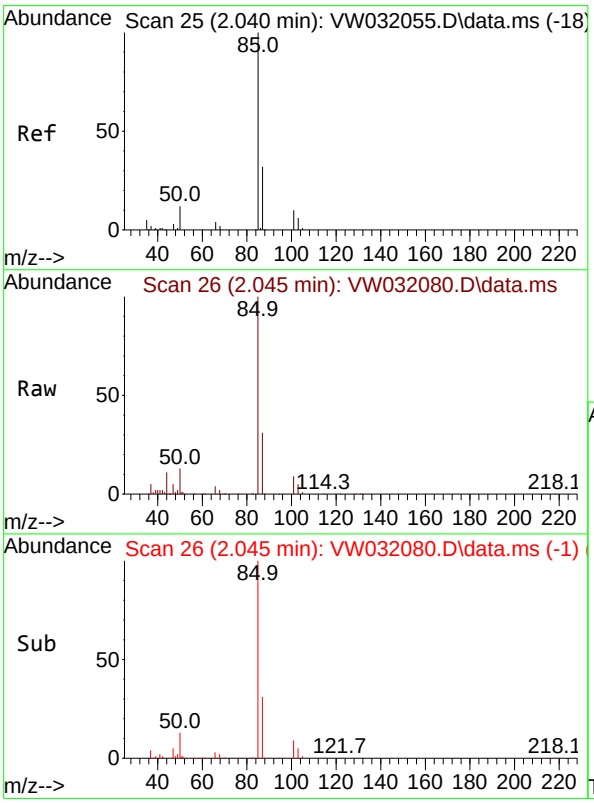
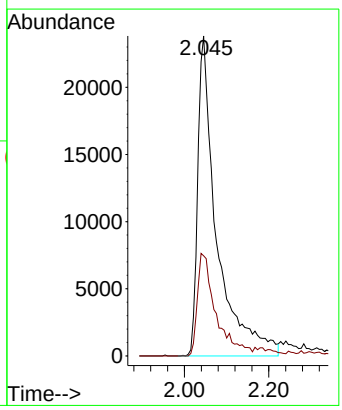
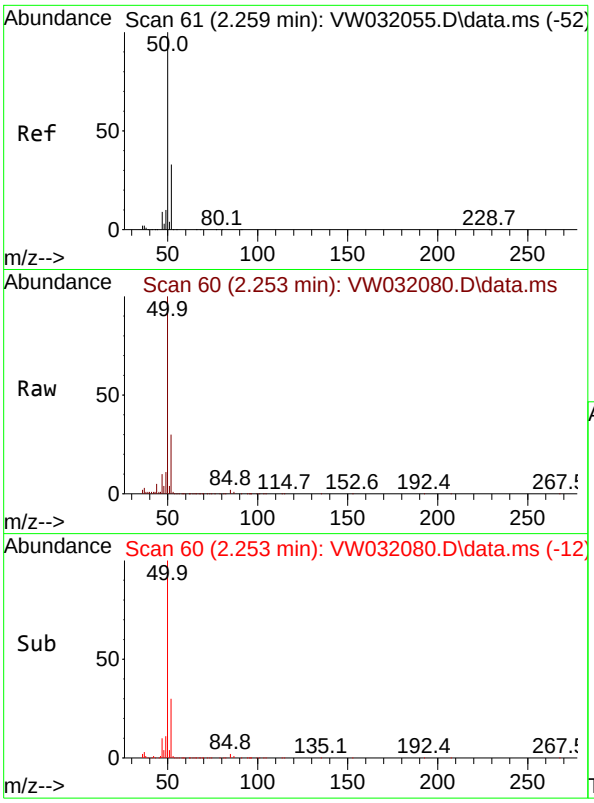


#2
Dichlorodifluoromethane
Concen: 49.784 ug/l
RT: 2.045 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 85 Resp: 74536

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.2	48.6

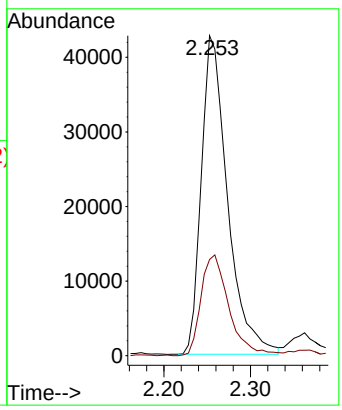




#3
Chloromethane
Concen: 44.563 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 50 Resp: 8987

Ion	Ratio	Lower	Upper
50	100		
52	30.2	26.6	39.8



Instrument :
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ClientSampleId :
VSTDCCC050

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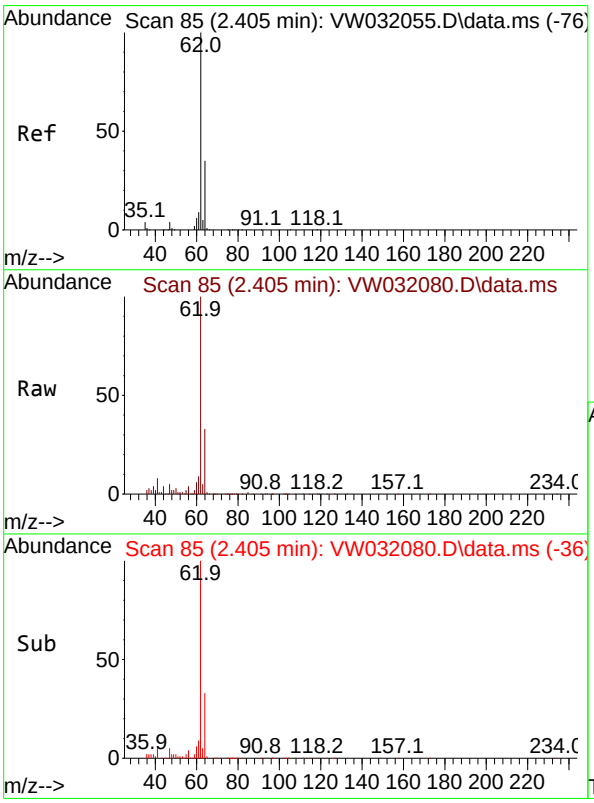
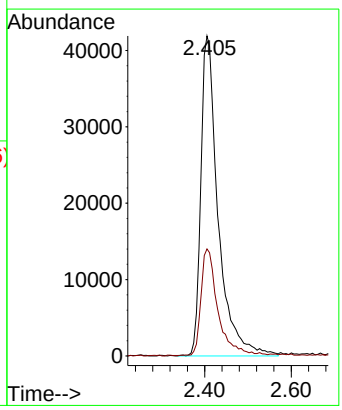
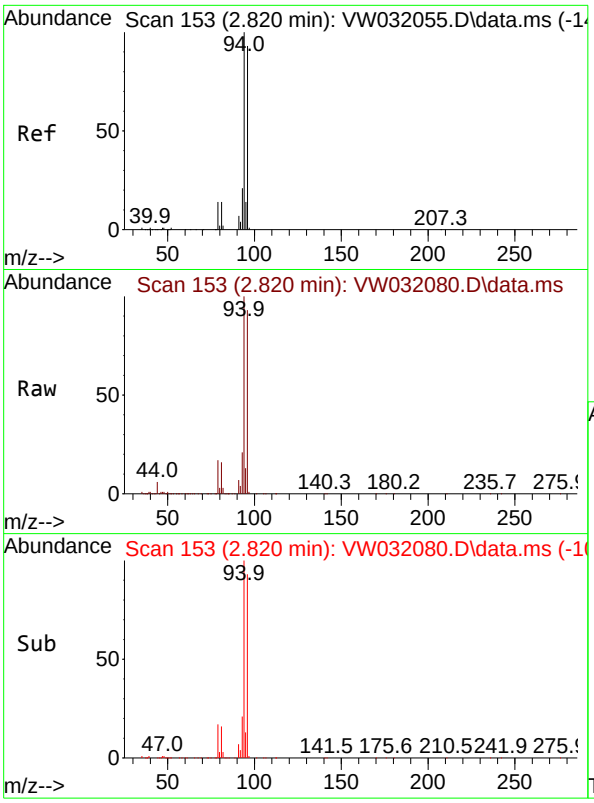


#4
Vinyl Chloride
Concen: 47.634 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 62 Resp: 116200

Ion	Ratio	Lower	Upper
62	100		
64	33.3	27.8	41.6

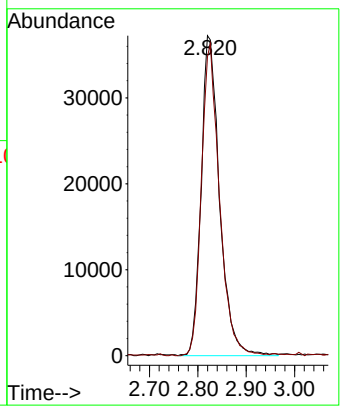




#5
Bromomethane
Concen: 53.858 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 94 Resp: 9856

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.7	112.1



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MSVOA_W
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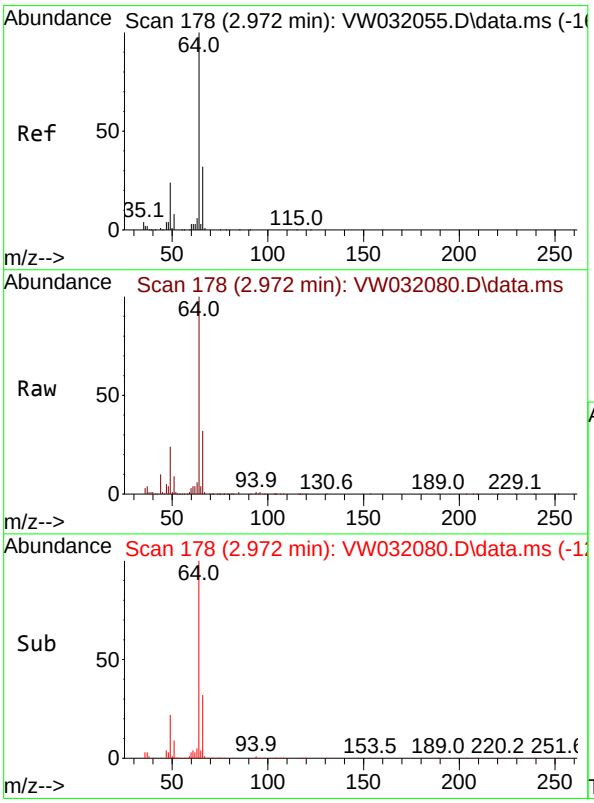
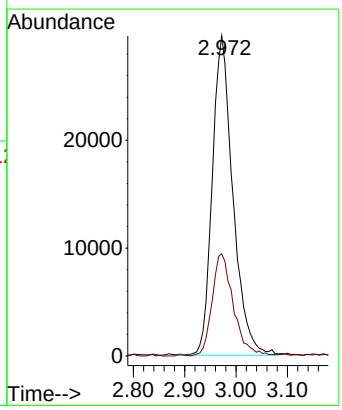
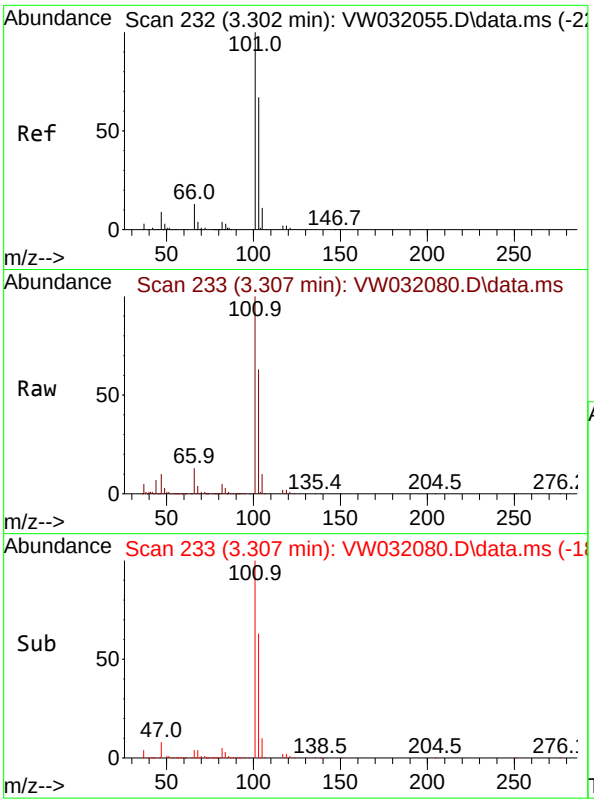


#6
Chloroethane
Concen: 51.208 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 64 Resp: 82661

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.0	39.0

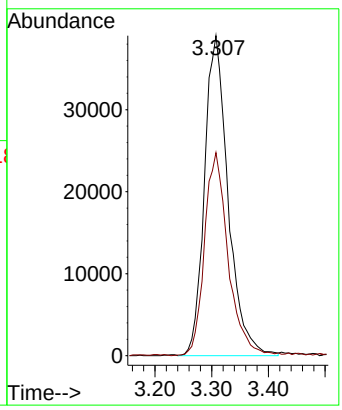




#7
Trichlorofluoromethane
Concen: 57.752 ug/l
RT: 3.307 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:101 Resp: 11286

Ion	Ratio	Lower	Upper
101	100		
103	63.4	53.4	80.0



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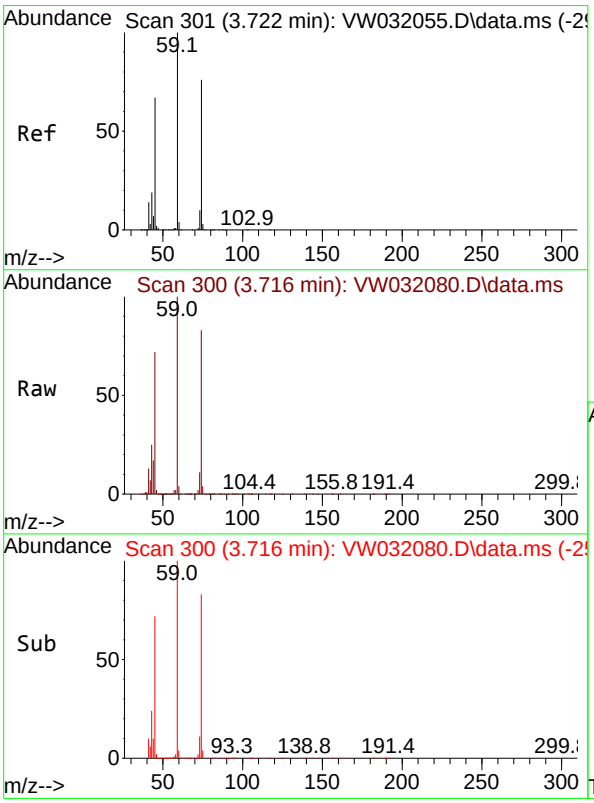
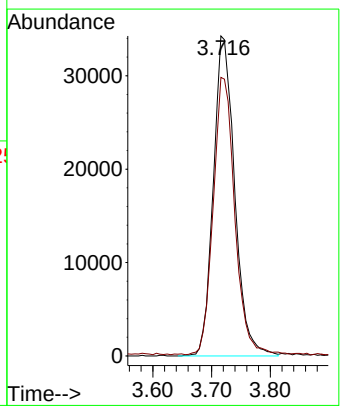
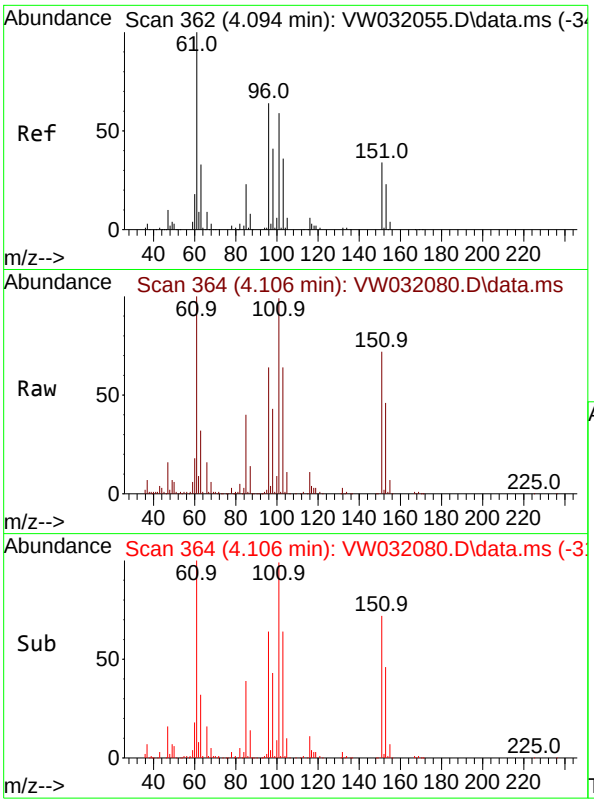


#8
Diethyl Ether
Concen: 54.020 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 74 Resp: 86491

Ion	Ratio	Lower	Upper
74	100		
45	87.3	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.292 ug/l
RT: 4.106 min Scan# 3
Delta R.T. 0.012 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:101 Resp: 12747

Ion	Ratio	Lower	Upper
101	100		
85	46.3	34.9	52.3
151	73.3	56.2	84.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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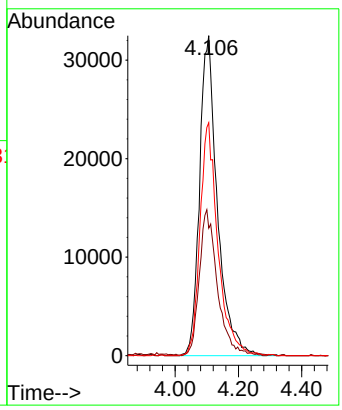
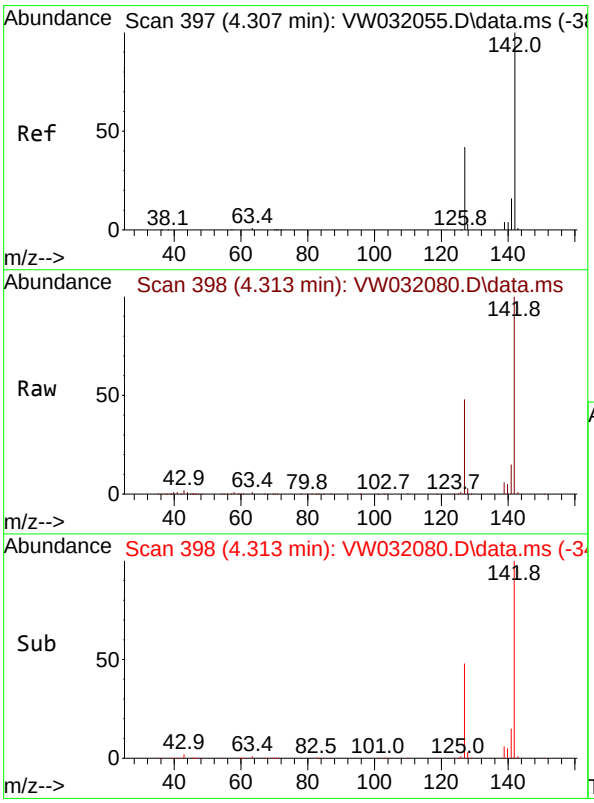
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

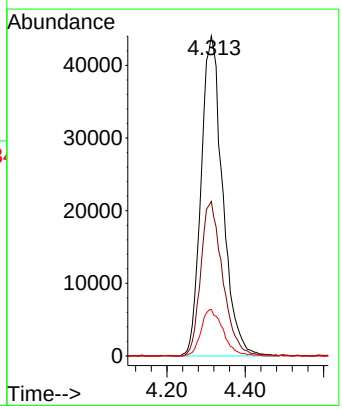


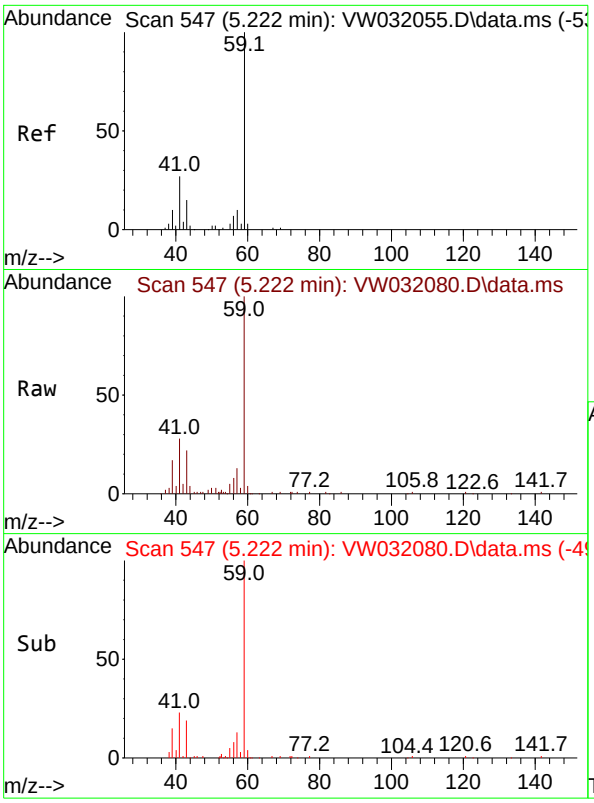


#10
Methyl Iodide
Concen: 51.502 ug/l
RT: 4.313 min Scan# 398
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:142 Resp: 168357

Ion	Ratio	Lower	Upper
142	100		
127	49.1	36.6	55.0
141	14.9	12.1	18.1

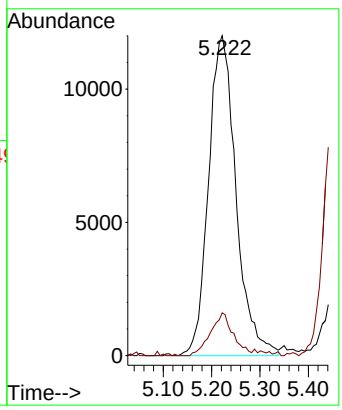




#11
Tert butyl alcohol
Concen: 241.851 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 59 Resp: 4741

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.7	13.1



Instrument :
MSVOA_W
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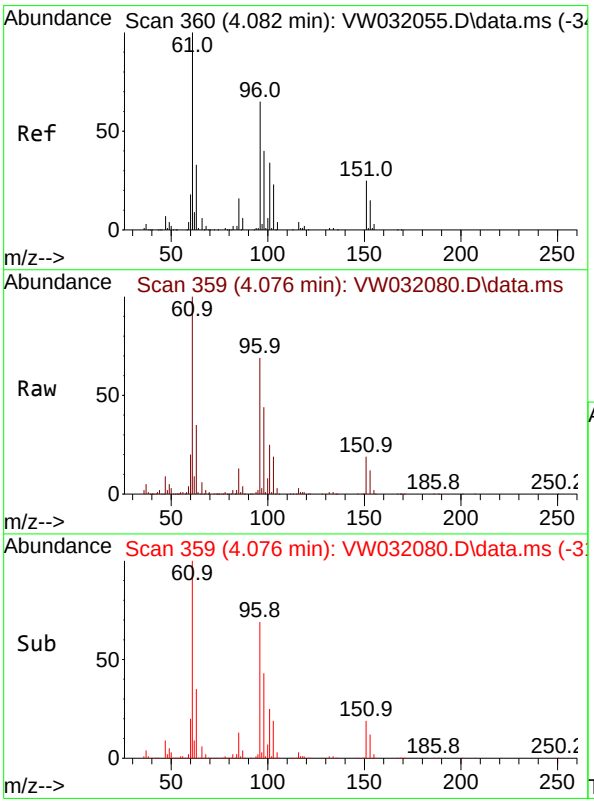
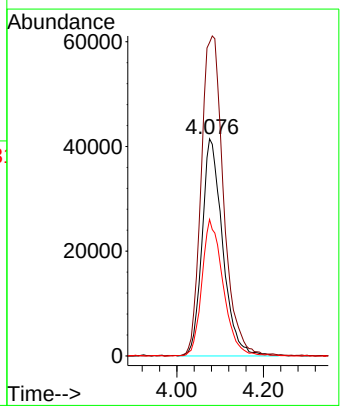
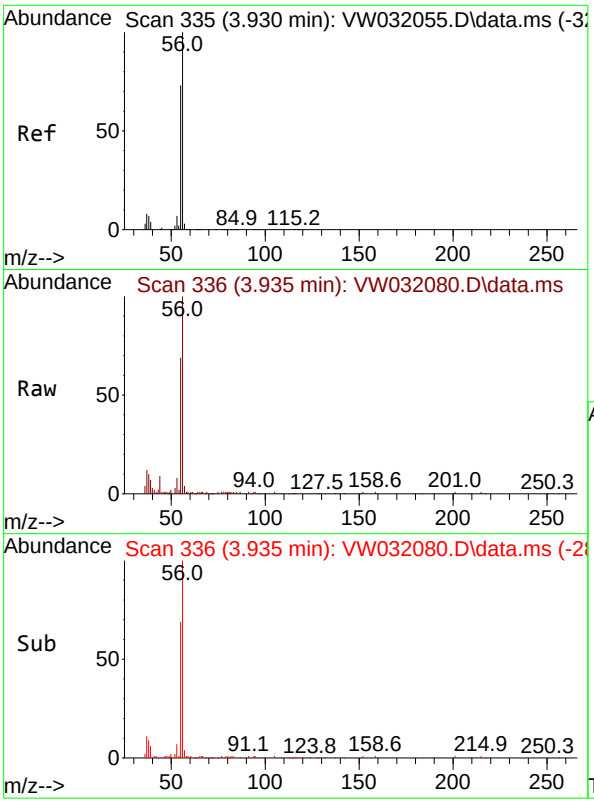


#12
1,1-Dichloroethene
Concen: 54.052 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 96 Resp: 137220

Ion	Ratio	Lower	Upper
96	100		
61	144.2	123.4	185.2
98	62.7	49.5	74.3

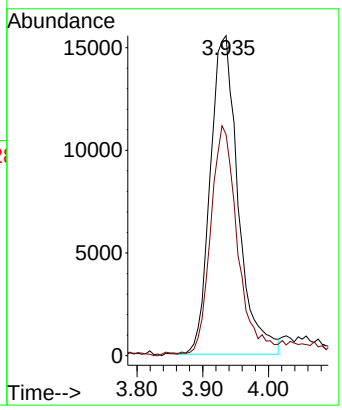




#13
Acrolein
Concen: 146.845 ug/l
RT: 3.935 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 56 Resp: 4586

Ion	Ratio	Lower	Upper
56	100		
55	68.2	55.4	83.2



Instrument :
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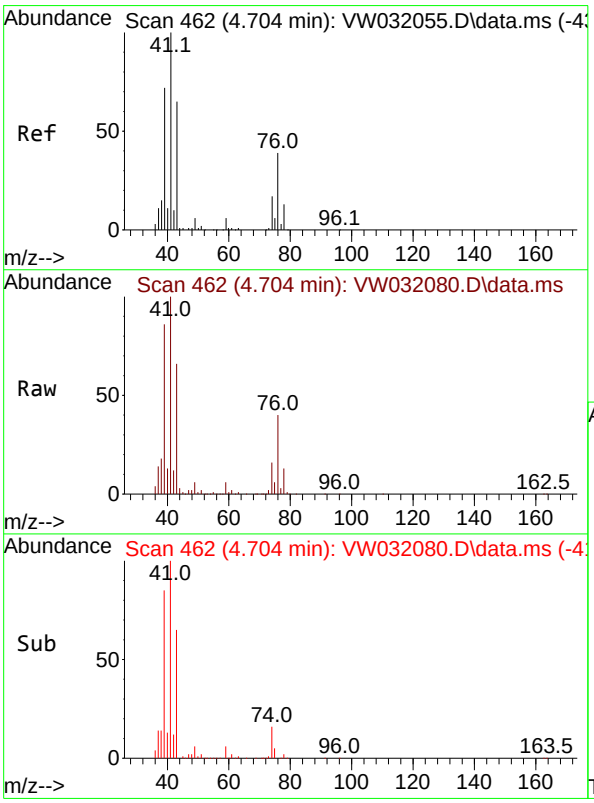
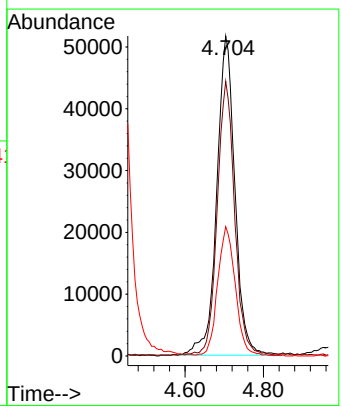
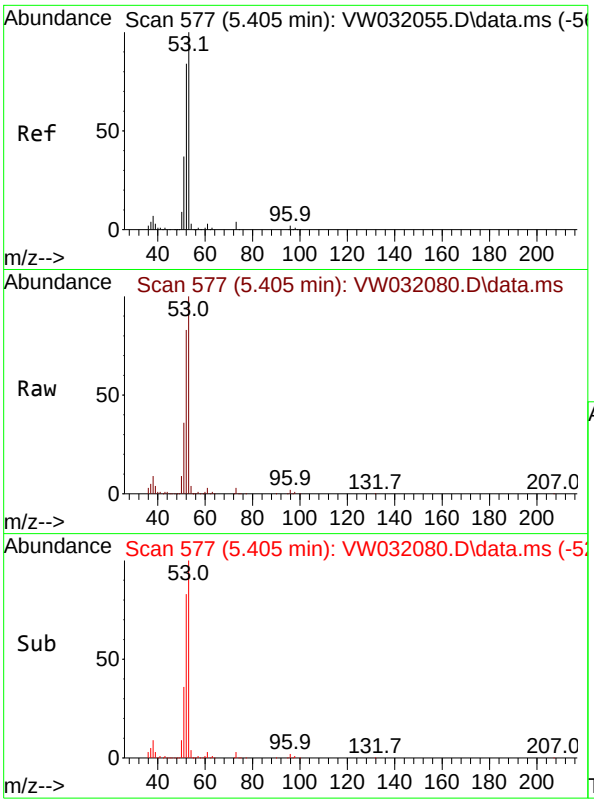


#14
Allyl chloride
Concen: 45.111 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 41 Resp: 166676

Ion	Ratio	Lower	Upper
41	100		
39	81.9	54.5	81.7#
76	39.1	29.3	43.9

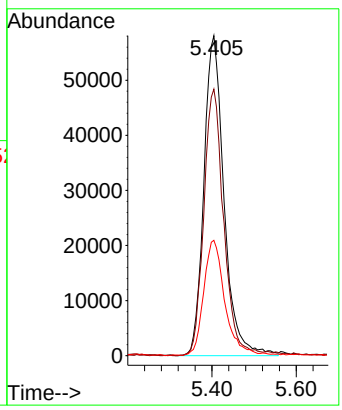




#15
Acrylonitrile
Concen: 253.370 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 53 Resp: 19322

Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.1	99.1
51	37.4	29.2	43.8



Instrument :
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ClientSampleId :
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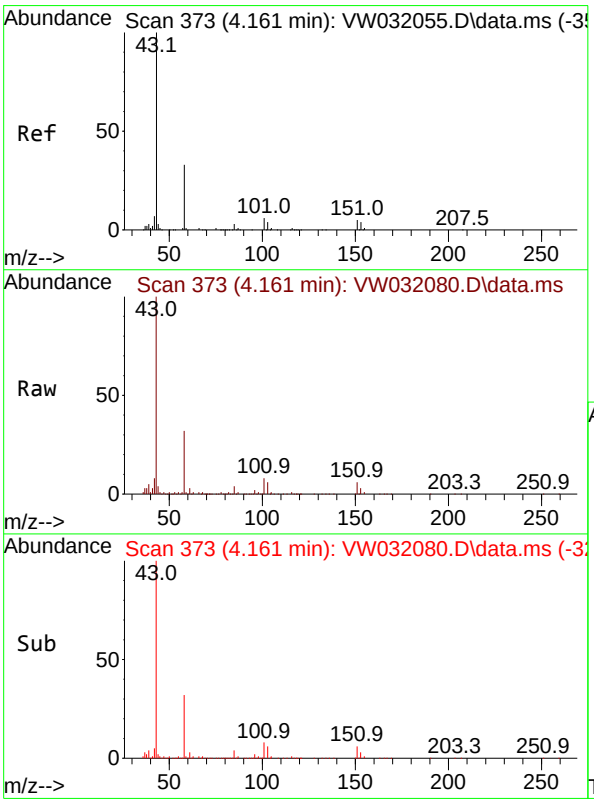
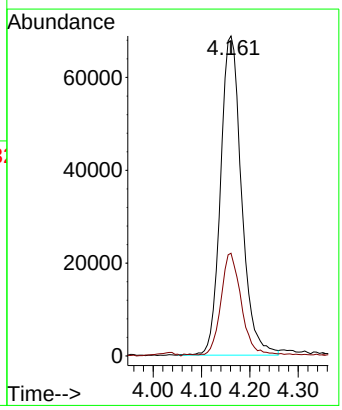
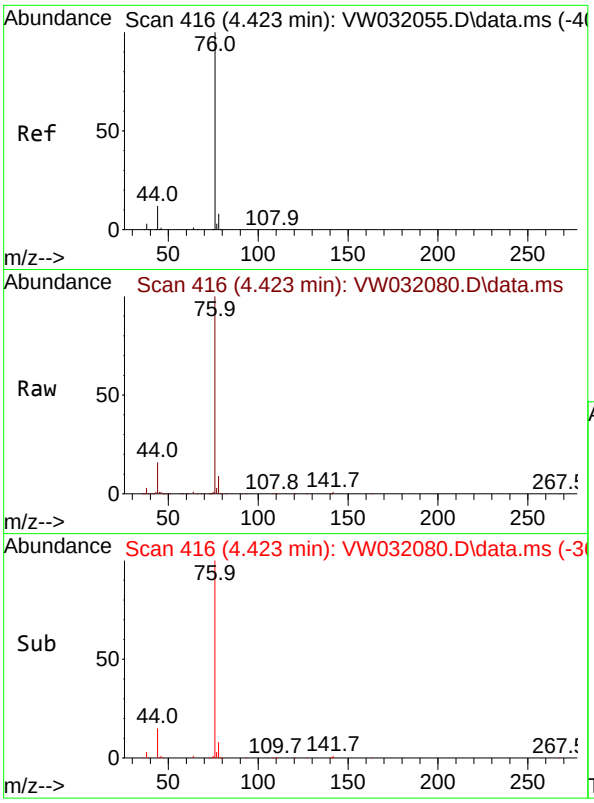


#16
Acetone
Concen: 295.783 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 207328

Ion	Ratio	Lower	Upper
43	100		
58	31.7	26.6	39.8

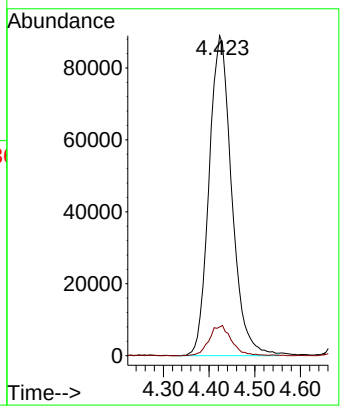




#17
Carbon Disulfide
Concen: 45.000 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 76 Resp: 30663

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.4	9.6



Instrument :
MSVOA_W
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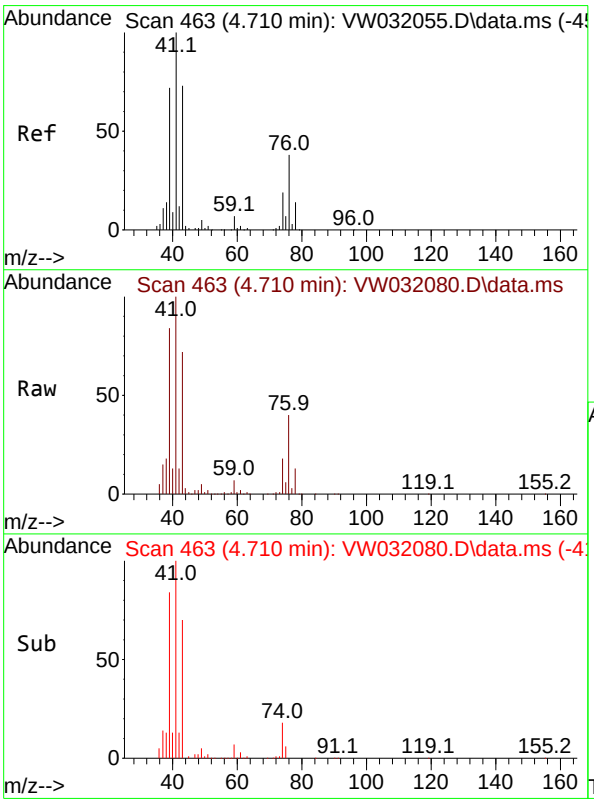
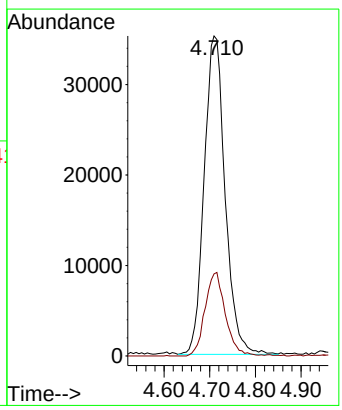
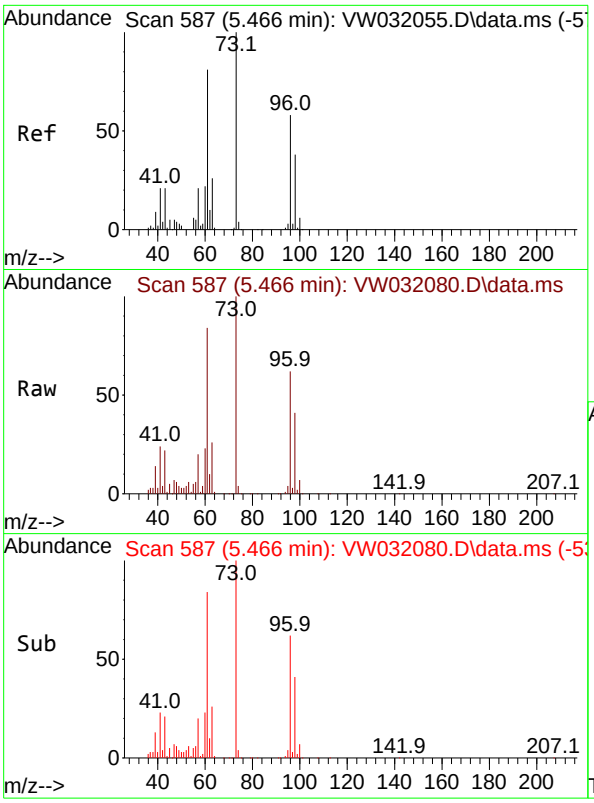


#18
Methyl Acetate
Concen: 50.516 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 112047

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.6	31.0

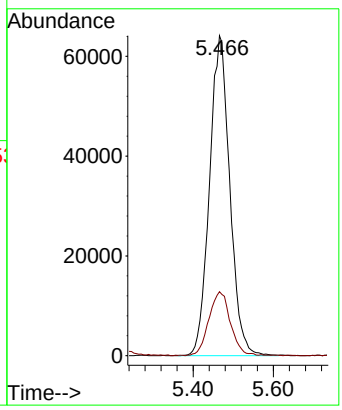




#19
Methyl tert-butyl Ether
Concen: 50.329 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 73 Resp: 22512

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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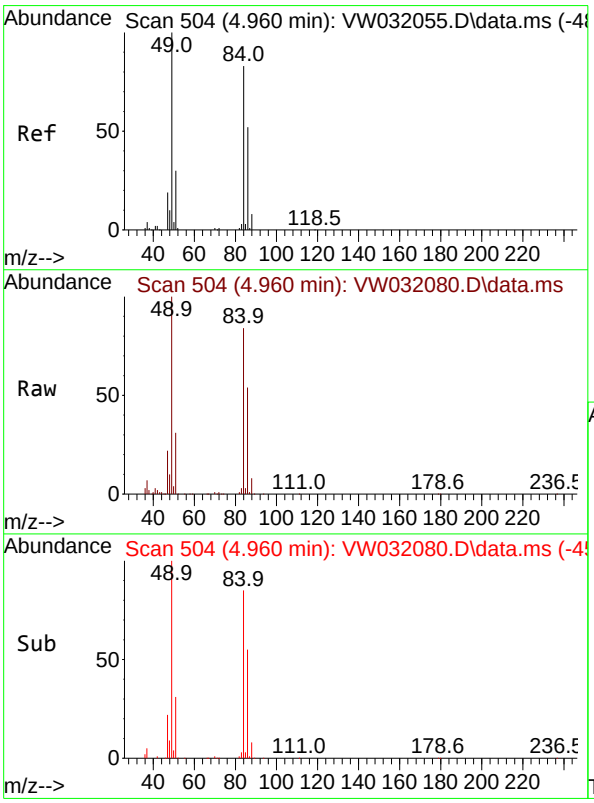
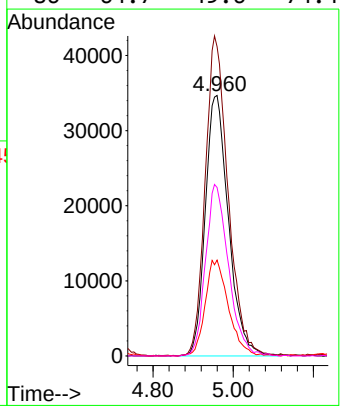
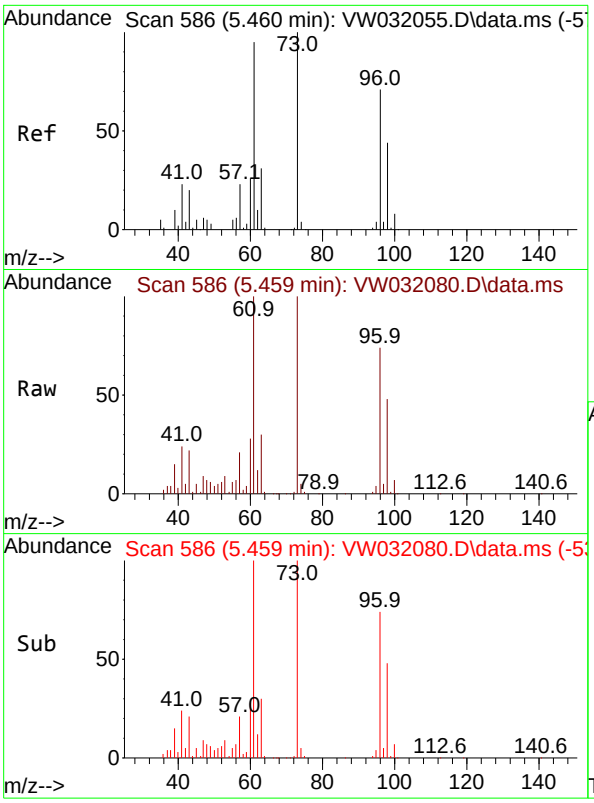


#20
Methylene Chloride
Concen: 42.955 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 84 Resp: 139212

Ion	Ratio	Lower	Upper
84	100		
49	118.8	95.9	143.9
51	36.8	28.6	43.0
86	64.7	49.6	74.4

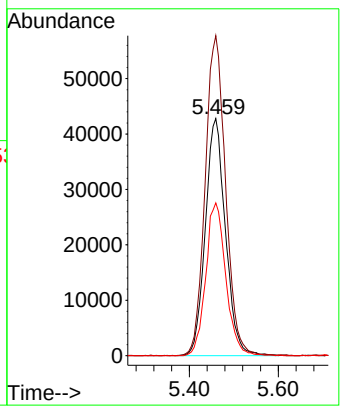




#21
trans-1,2-Dichloroethene
Concen: 50.080 ug/l
RT: 5.459 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 96 Resp: 13492

Ion	Ratio	Lower	Upper
96	100		
61	134.8	106.8	160.2
98	64.4	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
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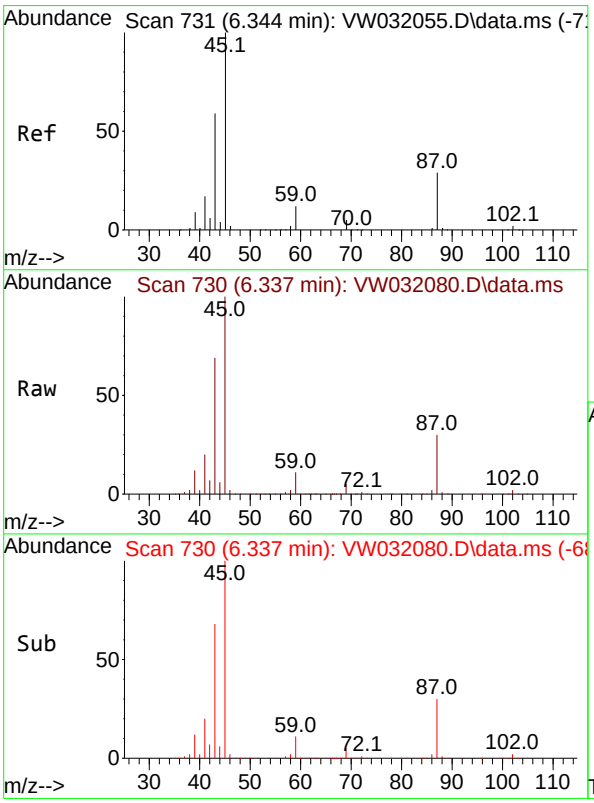
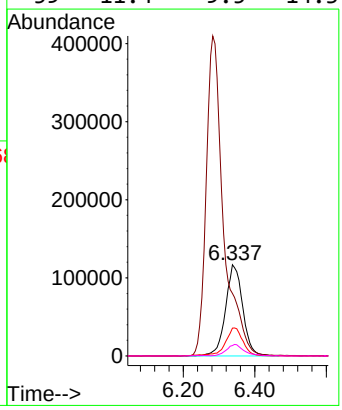
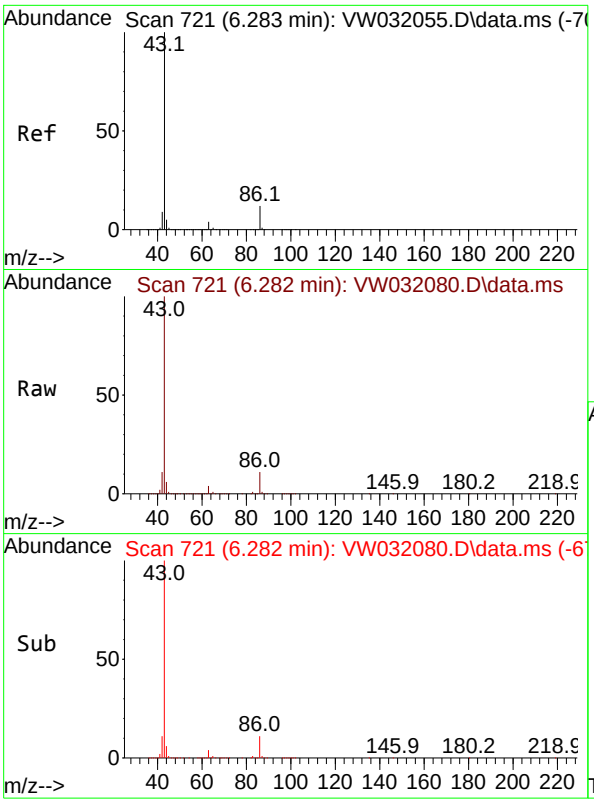


#22
Diisopropyl ether
Concen: 49.971 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 45 Resp: 389232

Ion	Ratio	Lower	Upper
45	100		
43	68.5	47.0	70.4
87	30.4	23.8	35.8
59	11.4	9.5	14.3





#23
Vinyl Acetate
Concen: 268.547 ug/l
RT: 6.282 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 137334

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.4	14.0

Instrument :
MSVOA_W
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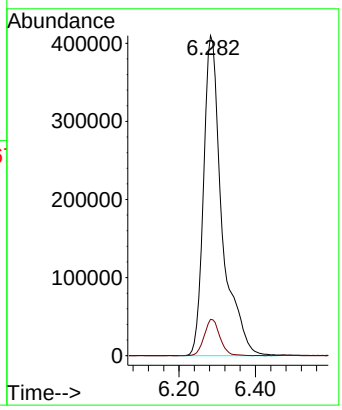
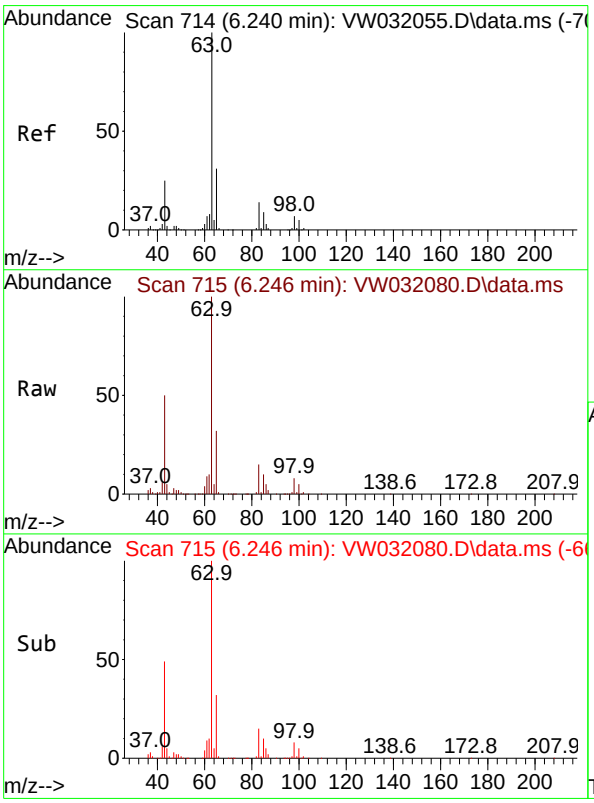
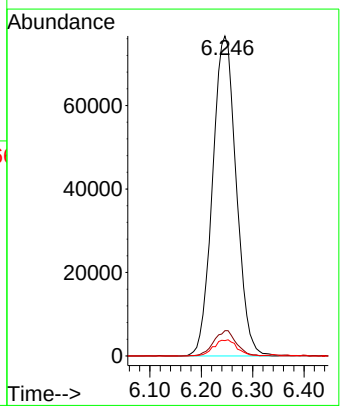


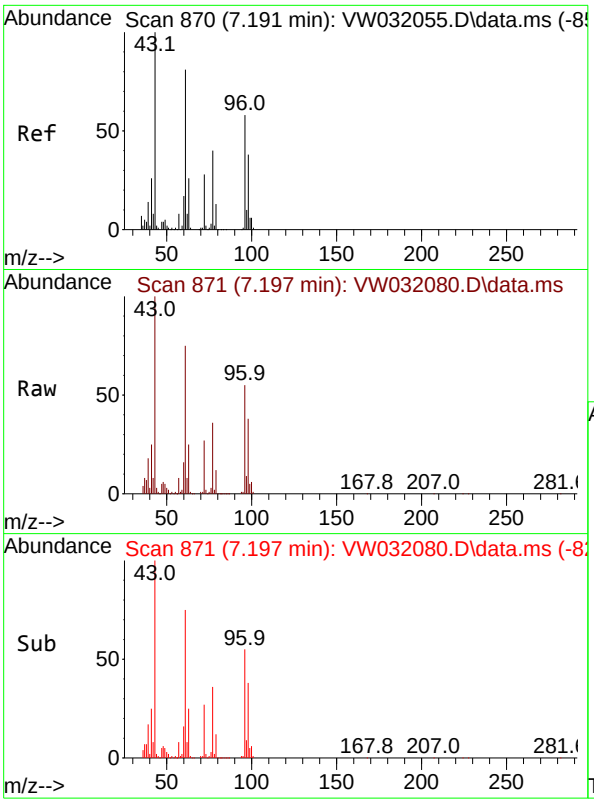


#24
1,1-Dichloroethane
Concen: 49.263 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 63 Resp: 245164

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.7	11.1
100	4.8	2.5	7.4

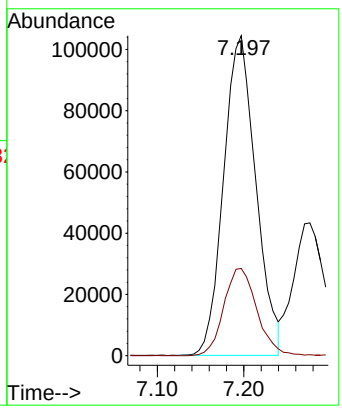




#25
2-Butanone
Concen: 271.199 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 27017

Ion	Ratio	Lower	Upper
43	100		
72	27.3	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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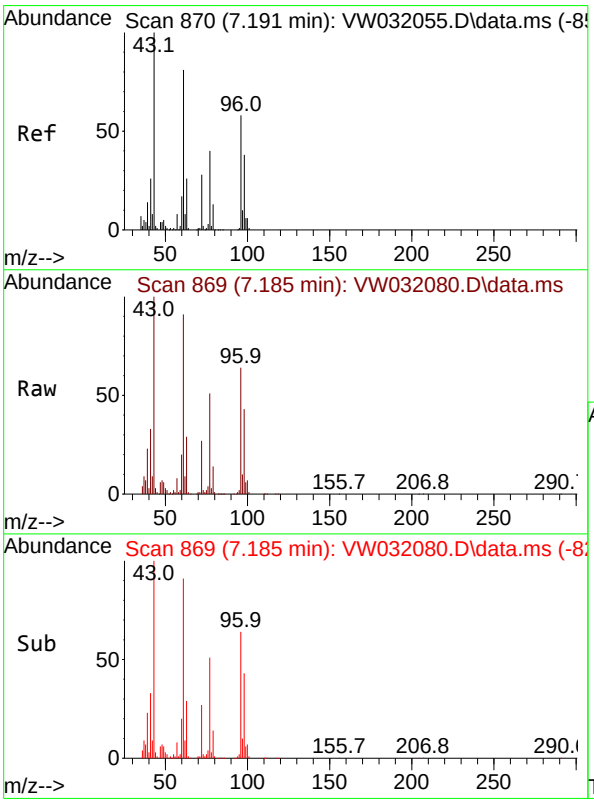
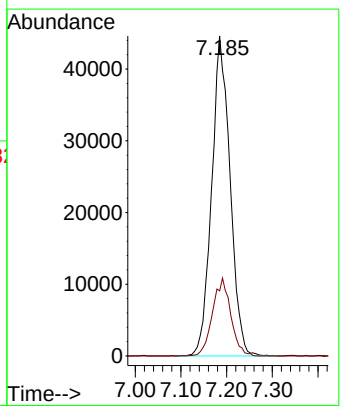
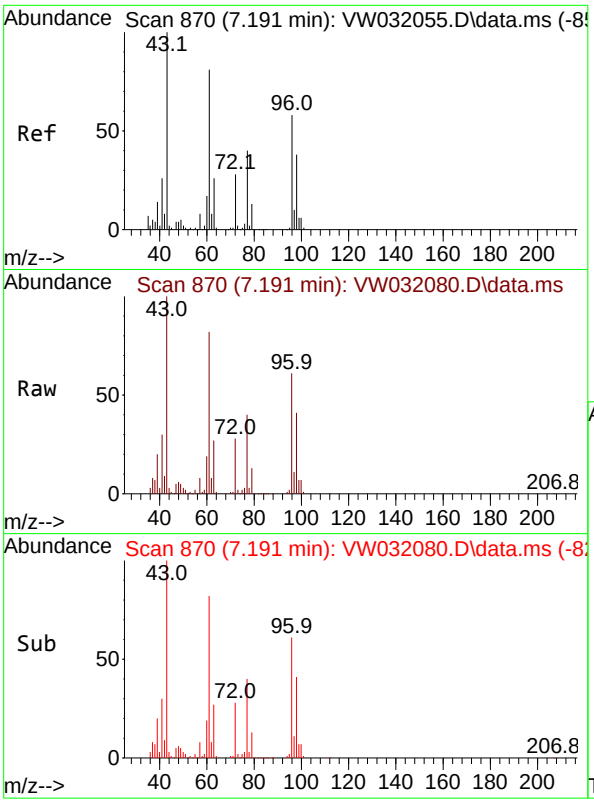


#26
2,2-Dichloropropane
Concen: 49.956 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 77 Resp: 124724

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 51.787 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 96 Resp: 16308

Ion	Ratio	Lower	Upper
96	100		
61	135.4	0.0	281.2
98	65.1	0.0	130.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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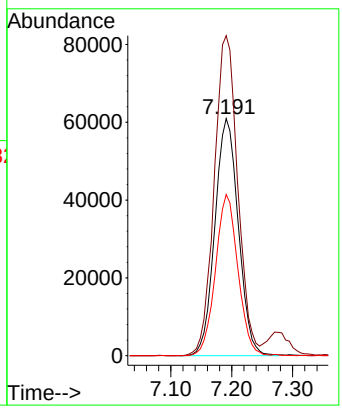
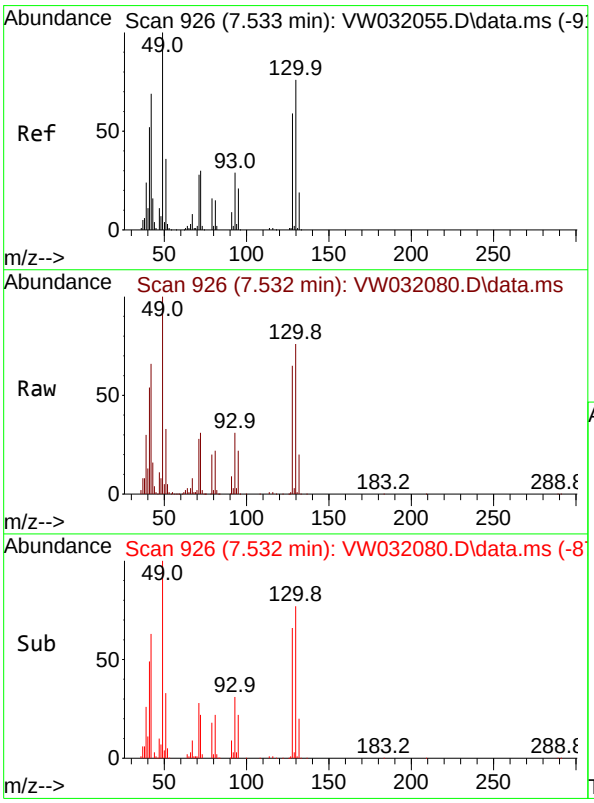
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

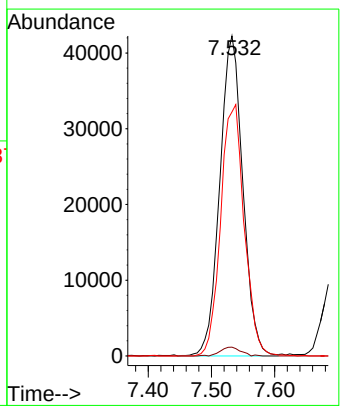


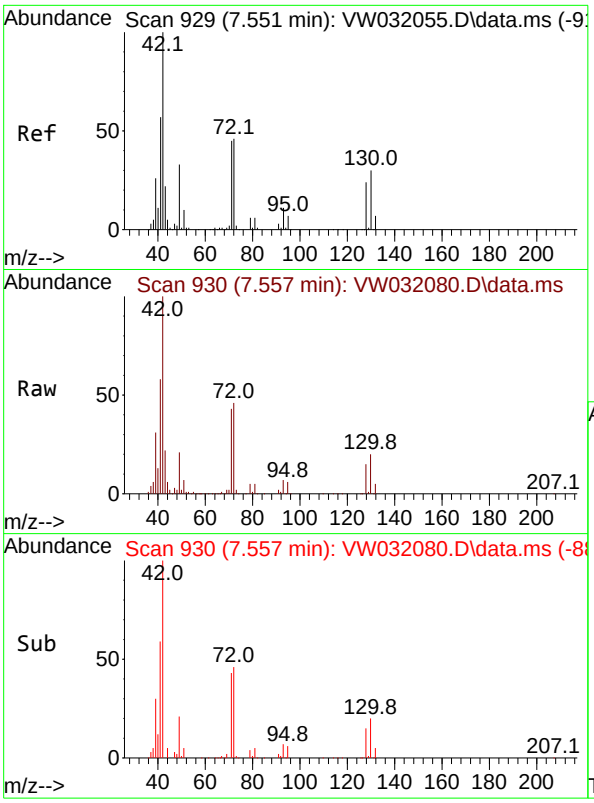


#28
Bromochloromethane
Concen: 47.126 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 49 Resp: 106726

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	80.3	61.9	92.9

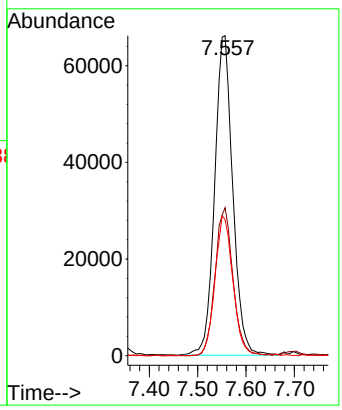




#29
Tetrahydrofuran
Concen: 261.846 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 42 Resp: 17203

Ion	Ratio	Lower	Upper
42	100		
72	45.9	36.6	55.0
71	43.5	34.7	52.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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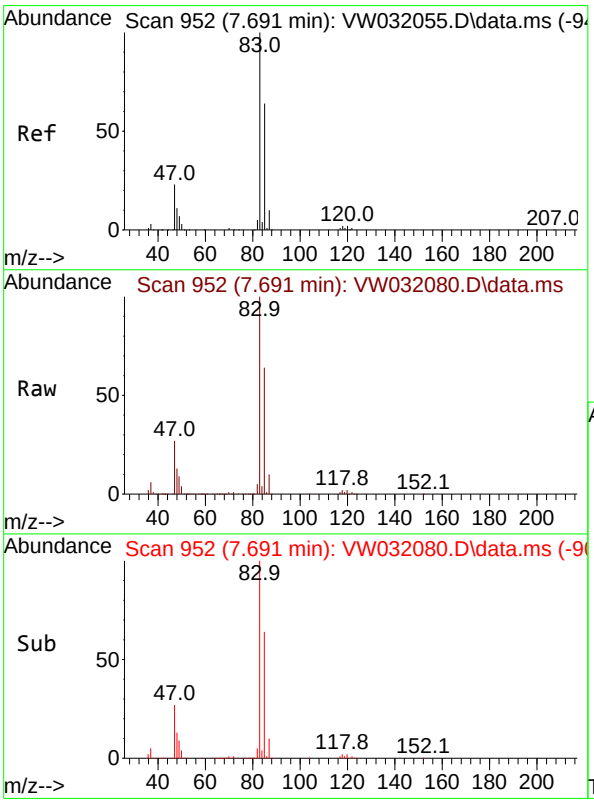
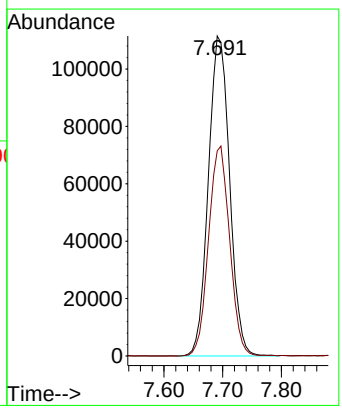
Supervised By :Mahesh Dadoda 08/19/2025

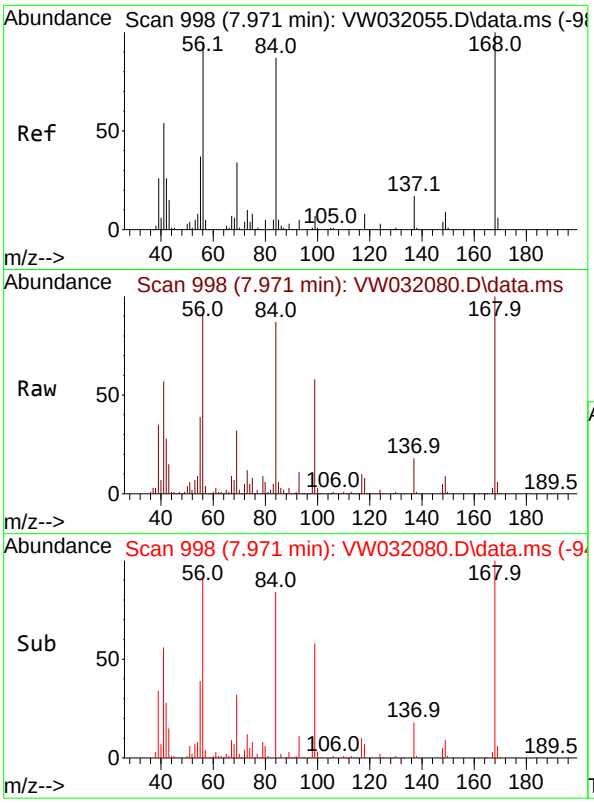


#30
Chloroform
Concen: 53.058 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 83 Resp: 279930

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.4





#31
Cyclohexane
Concen: 45.011 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 56 Resp: 19420

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.6	42.8
84	92.7	73.0	109.4

Instrument :
MSVOA_W
ClientSampleId :
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Manual Integrations
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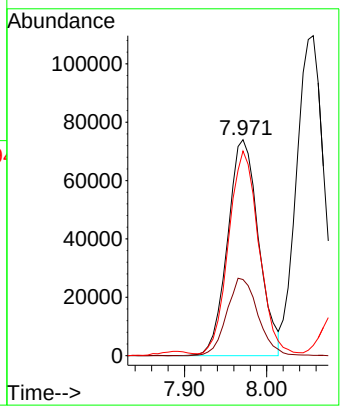
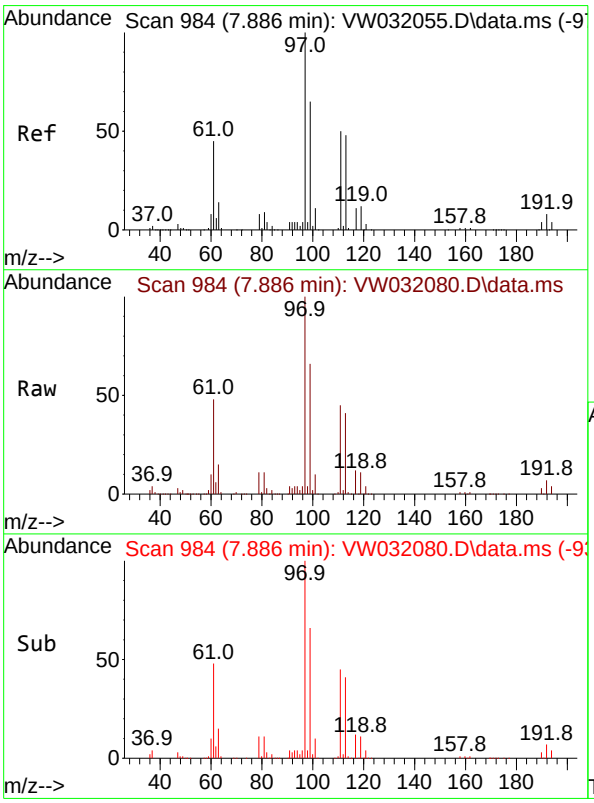
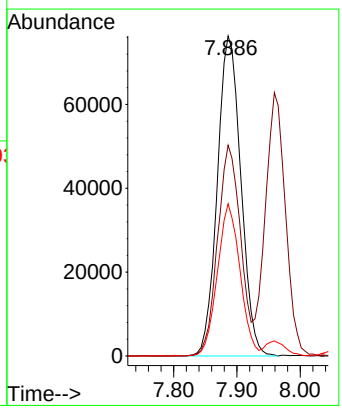


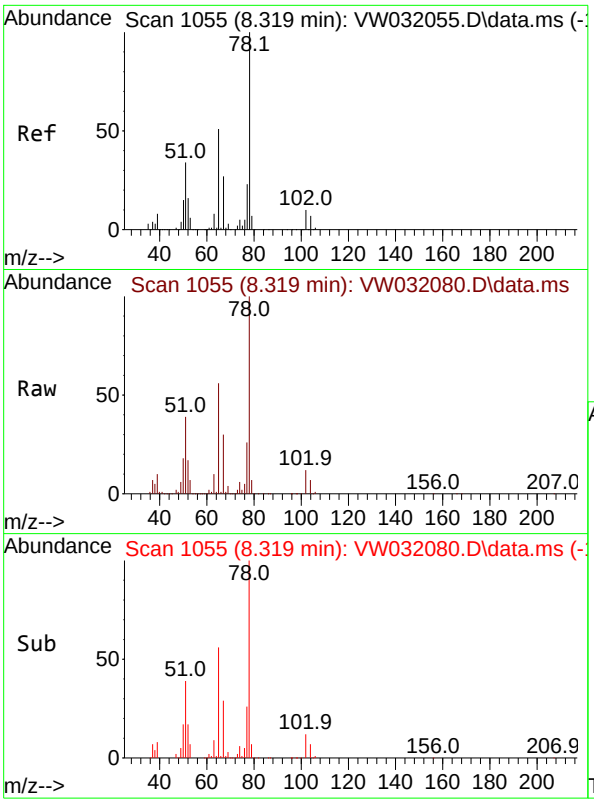


#32
1,1,1-Trichloroethane
Concen: 51.378 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 97 Resp: 196892

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.8	77.8
61	45.9	35.9	53.9

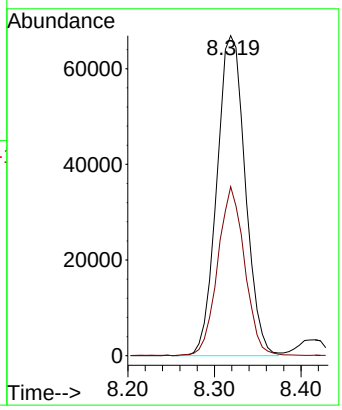




#33
1,2-Dichloroethane-d4
Concen: 50.347 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 65 Resp: 15242

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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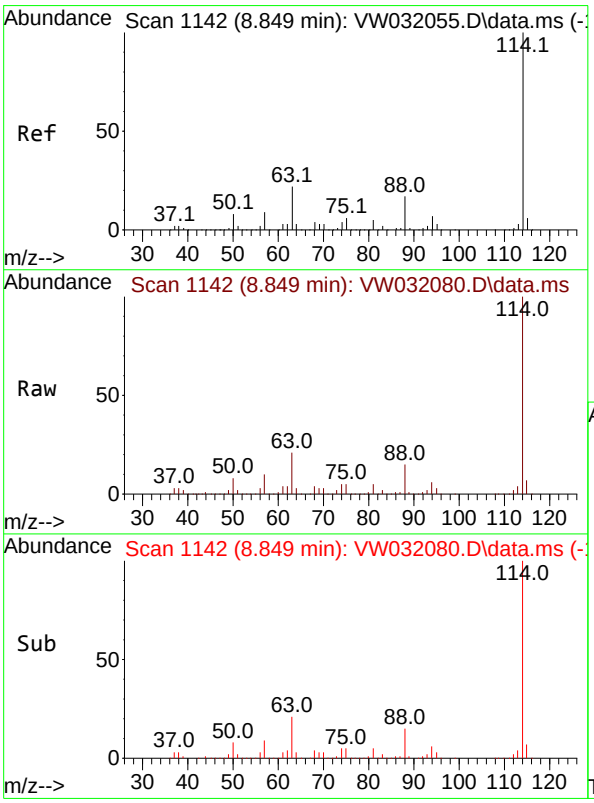
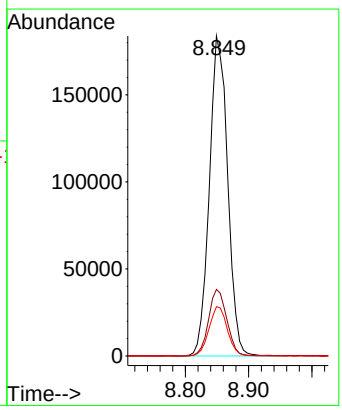
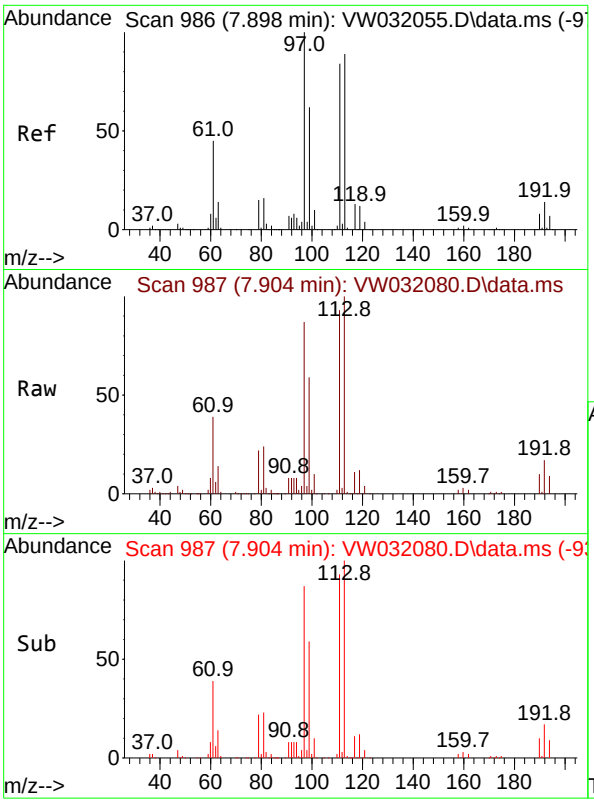


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:114 Resp: 369087

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.0
88	15.4	0.0	33.8

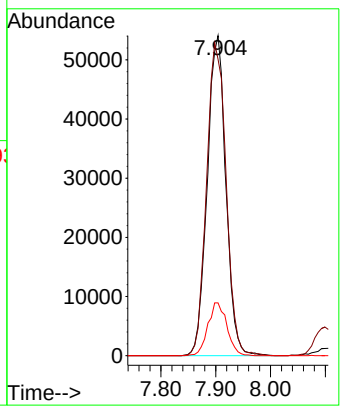




#35
Dibromofluoromethane
Concen: 53.483 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:113 Resp: 12752

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.1	120.1
192	16.9	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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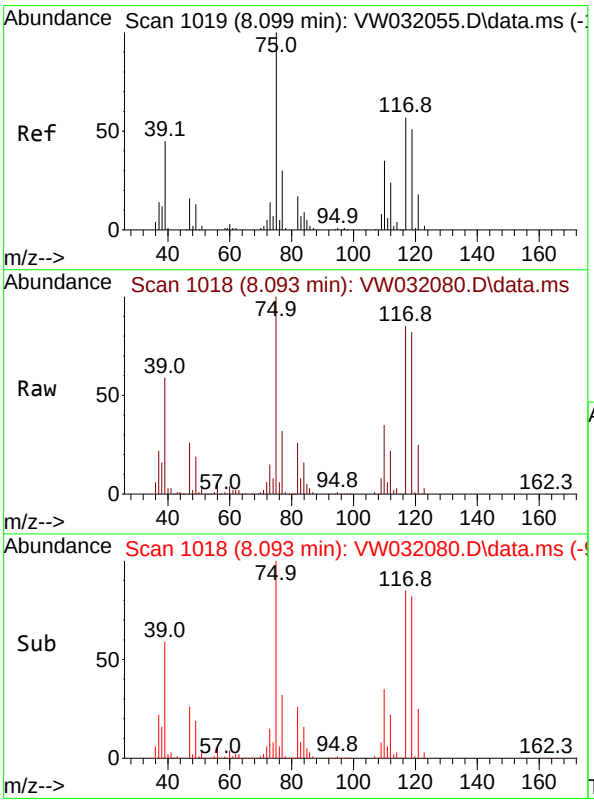
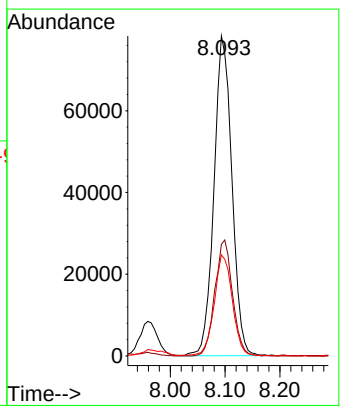
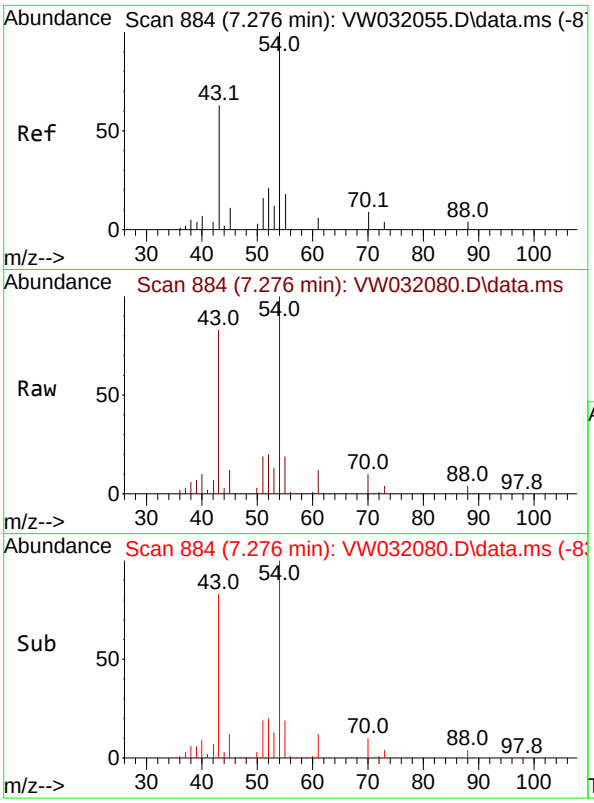


#36
1,1-Dichloropropene
Concen: 53.016 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 178210

Ion	Ratio	Lower	Upper
75	100		
110	35.8	17.4	52.2
77	32.1	24.7	37.1





#37
Ethyl Acetate
Concen: 58.145 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 11511

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.8	17.6
70	10.4	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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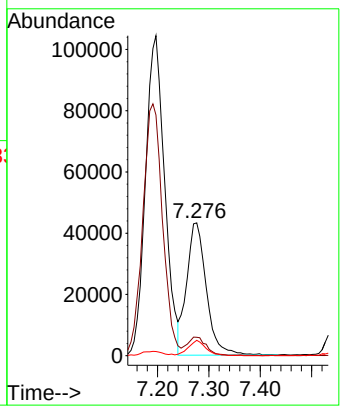
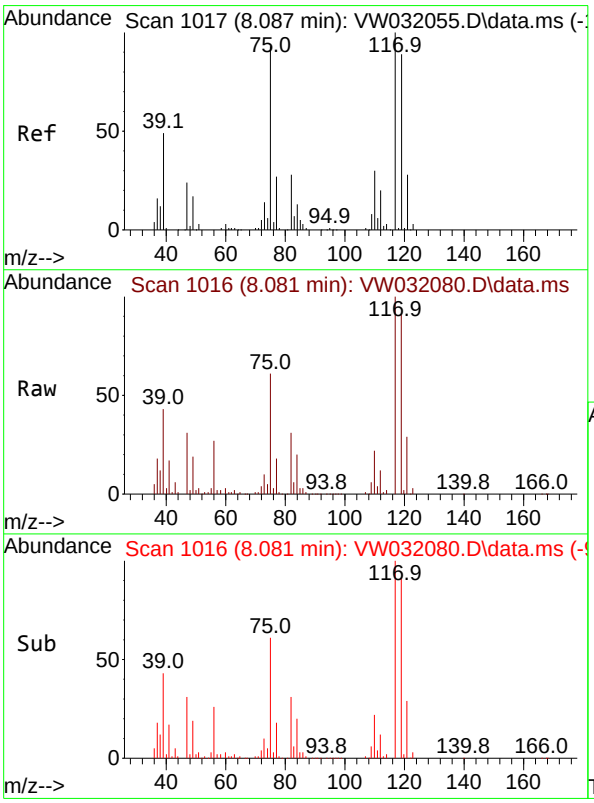
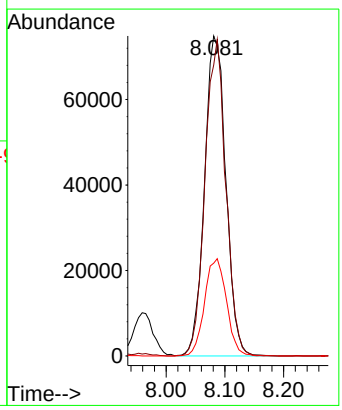


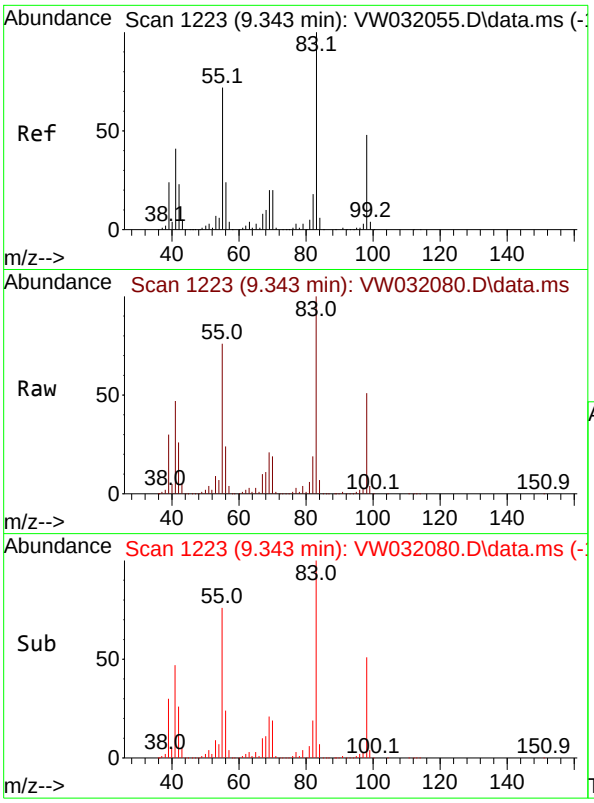


#38
Carbon Tetrachloride
Concen: 58.281 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:117 Resp: 189059

Ion	Ratio	Lower	Upper
117	100		
119	90.9	71.4	107.2
121	29.0	22.3	33.5





#39
Methylcyclohexane
Concen: 52.018 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 83 Resp: 21312

Ion	Ratio	Lower	Upper
83	100		
55	75.6	57.9	86.9
98	50.8	38.3	57.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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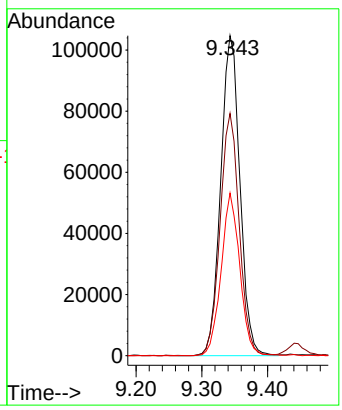
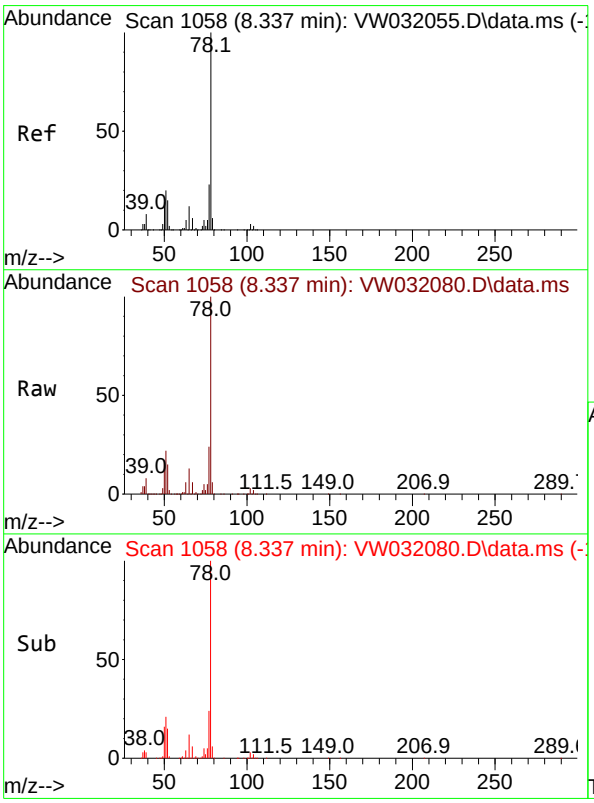
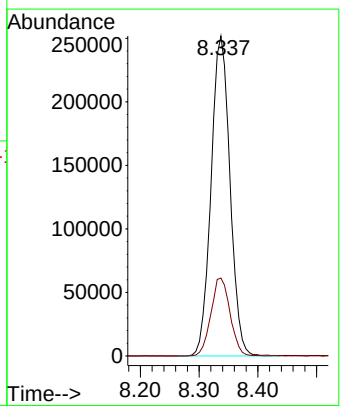


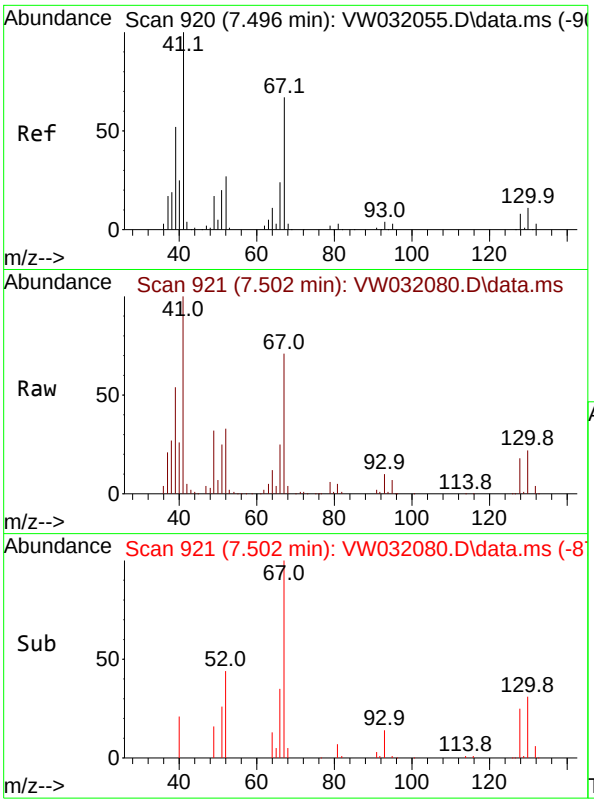


#40
Benzene
Concen: 53.892 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 78 Resp: 563104

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.4	27.6

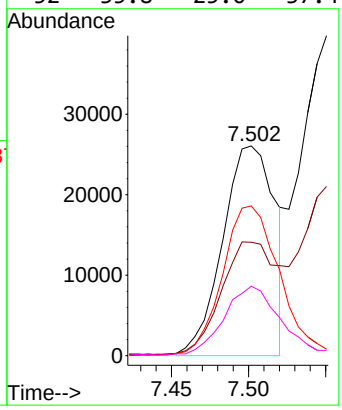




#41
Methacrylonitrile
Concen: 54.674 ug/l m
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 41 Resp: 6138

Ion	Ratio	Lower	Upper
41	100		
39	62.7	42.6	63.8
67	78.6	61.0	91.4
52	35.8	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
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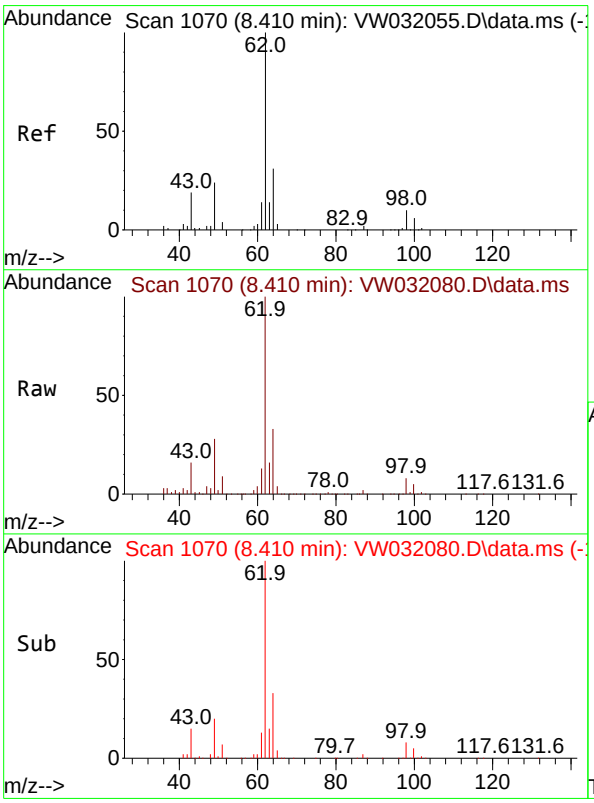
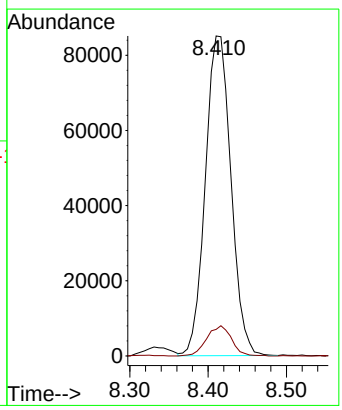
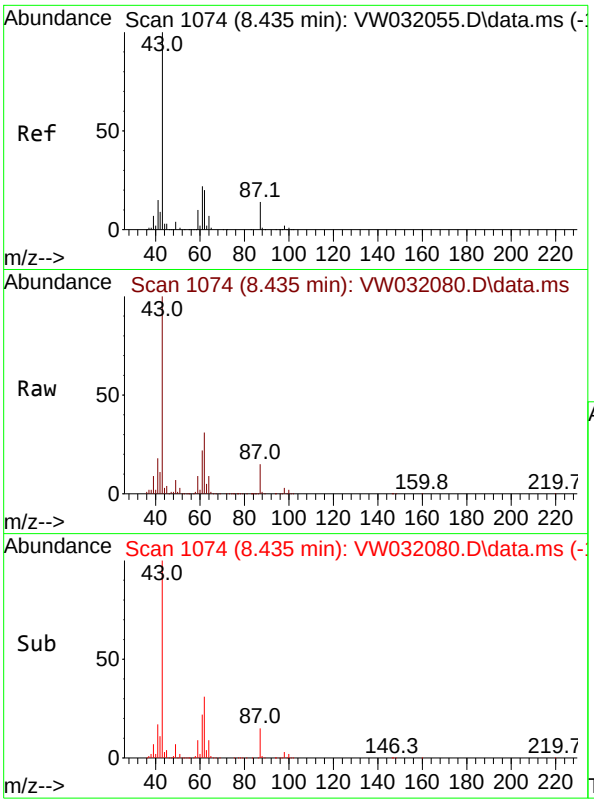


#42
1,2-Dichloroethane
Concen: 57.820 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 62 Resp: 193320

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.8





#43
Isopropyl Acetate
Concen: 57.148 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 20815

Ion	Ratio	Lower	Upper
43	100		
61	28.3	23.8	35.8
87	14.0	11.7	17.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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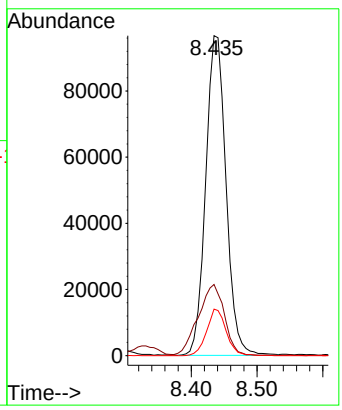
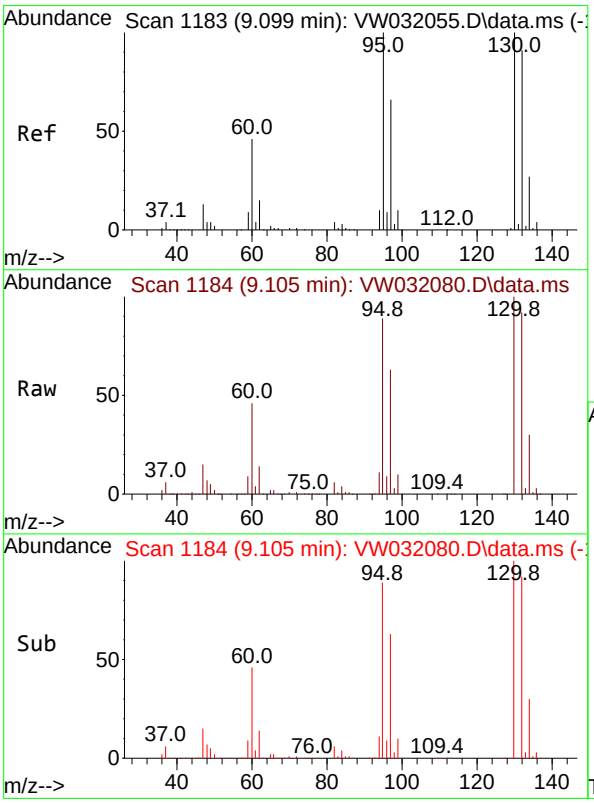
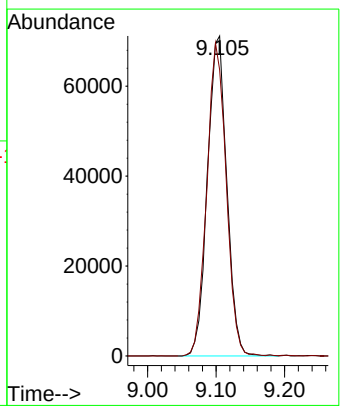


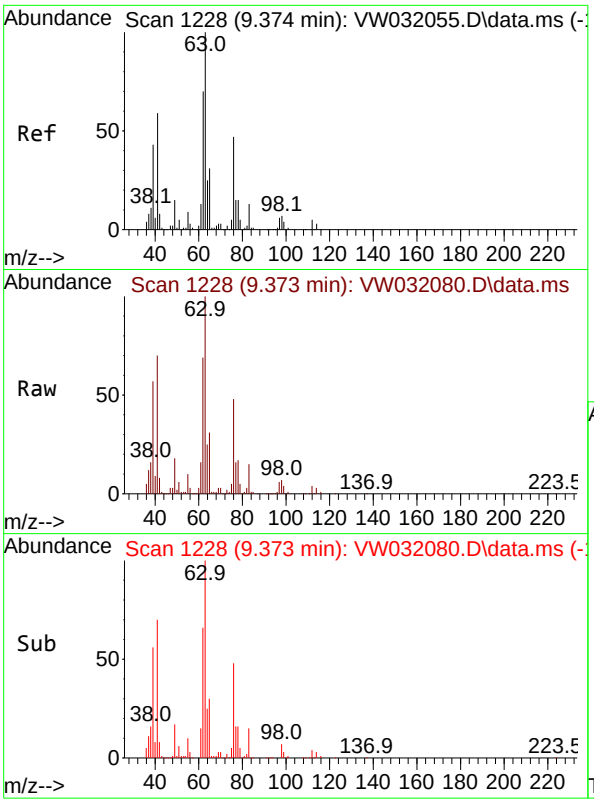


#44
Trichloroethene
Concen: 56.237 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:130 Resp: 139933

Ion	Ratio	Lower	Upper
130	100		
95	89.4	0.0	200.6





#45
1,2-Dichloropropane
Concen: 53.705 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 63 Resp: 13556

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.6	36.8

Instrument :
MSVOA_W
ClientSampleId :
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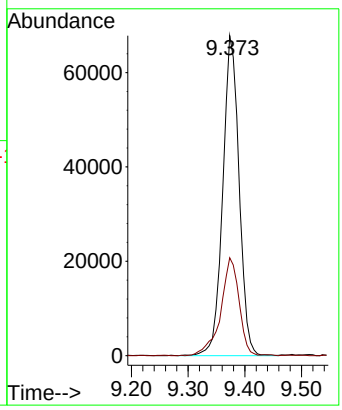
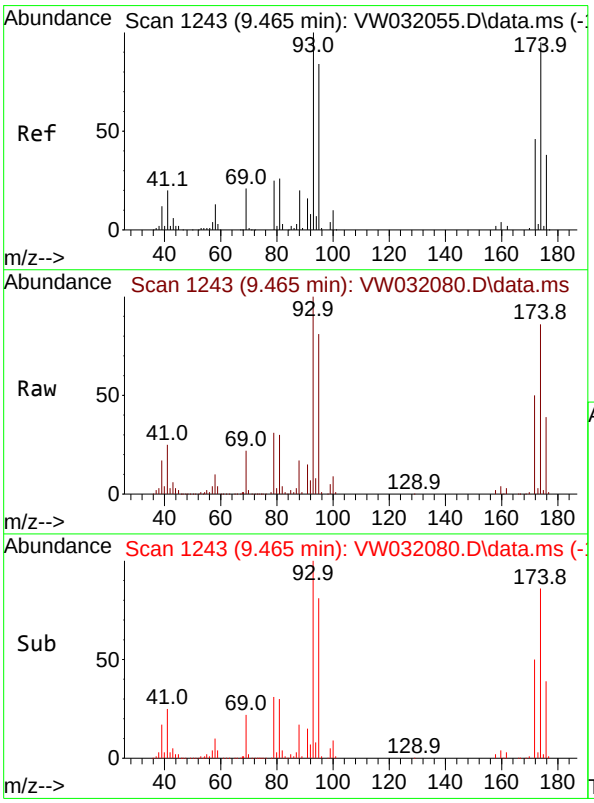
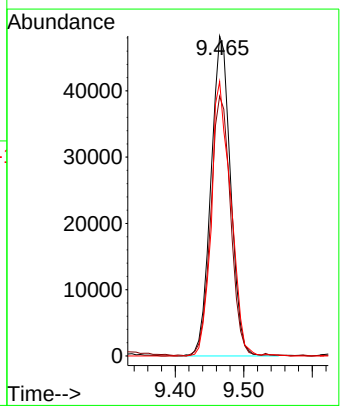


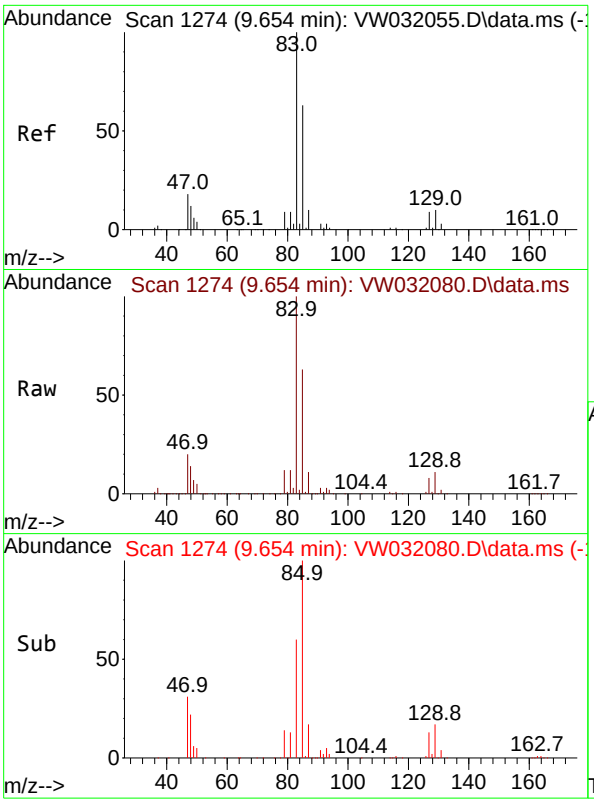


#46
Dibromomethane
Concen: 58.920 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 93 Resp: 95991

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.3	97.9
174	84.8	68.6	102.8

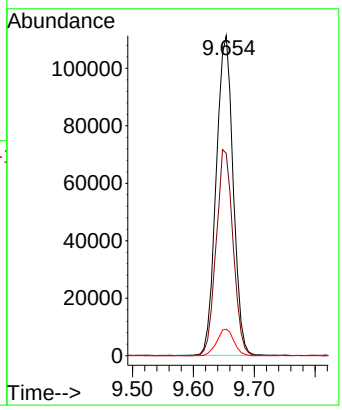




#47
Bromodichloromethane
Concen: 57.226 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 83 Resp: 21483

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.3	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
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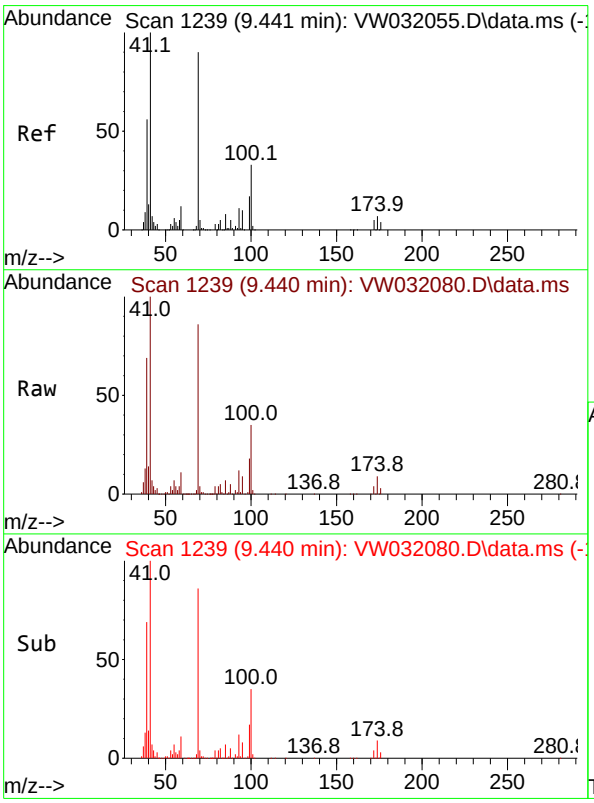
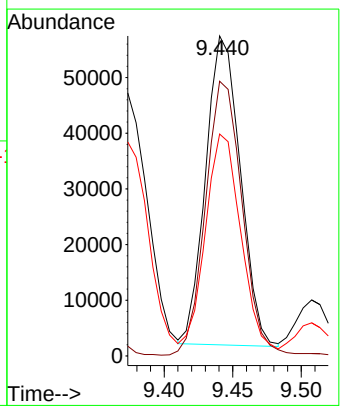
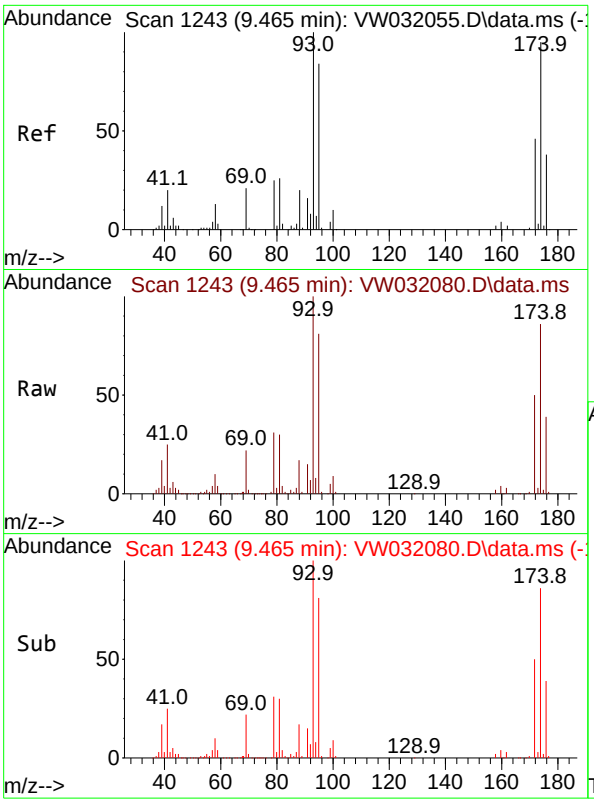


#48
Methyl methacrylate
Concen: 55.521 ug/l
RT: 9.440 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 41 Resp: 97630

Ion	Ratio	Lower	Upper
41	100		
69	94.2	73.0	109.6
39	74.6	45.0	67.4#

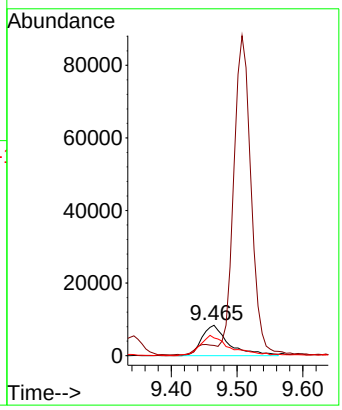




#49
1,4-Dioxane
Concen: 1132.752 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 88 Resp: 2386

Ion	Ratio	Lower	Upper
88	100		
43	24.1	20.6	30.8
58	74.5	60.4	90.6



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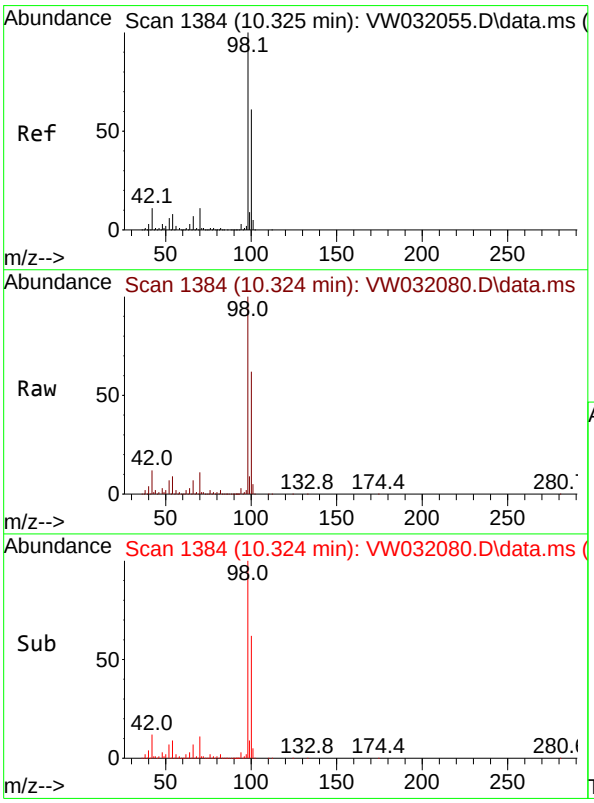
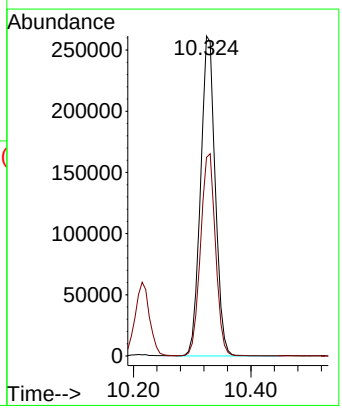
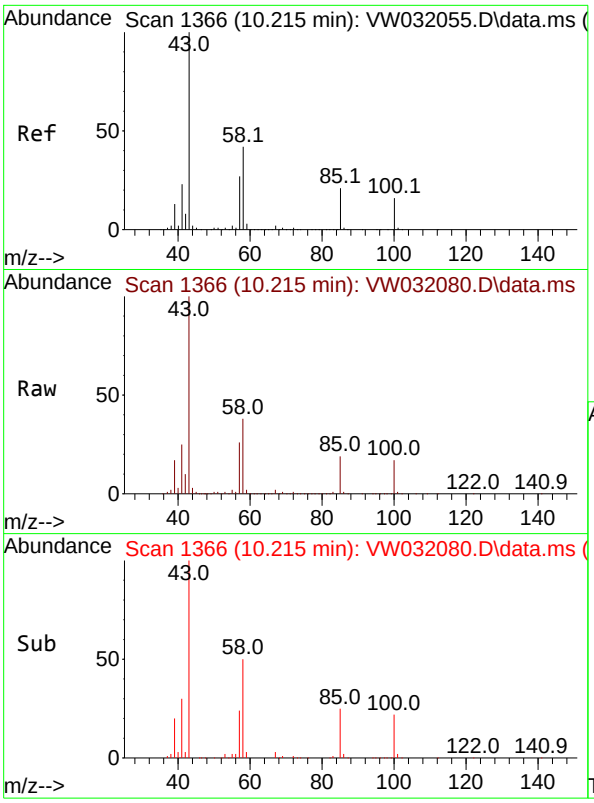


#50
Toluene-d8
Concen: 51.355 ug/l
RT: 10.324 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 98 Resp: 452920

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 298.600 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 61388

Ion	Ratio	Lower	Upper
43	100		
58	39.1	33.1	49.7

Instrument :
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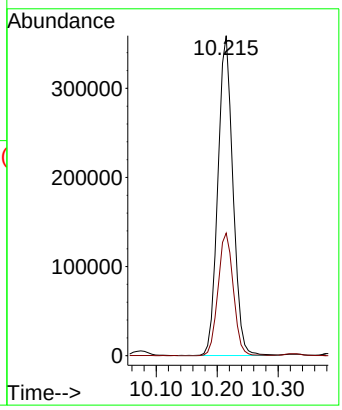
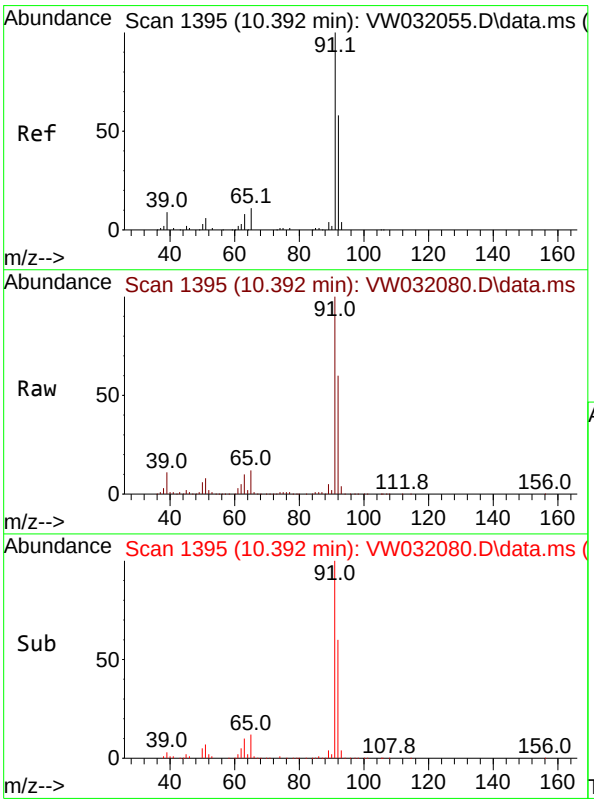
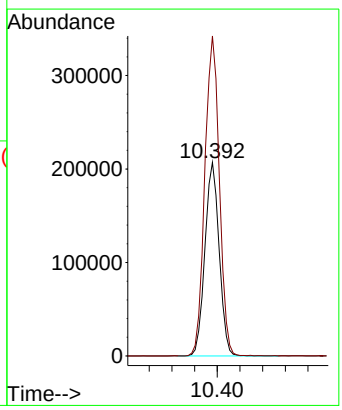


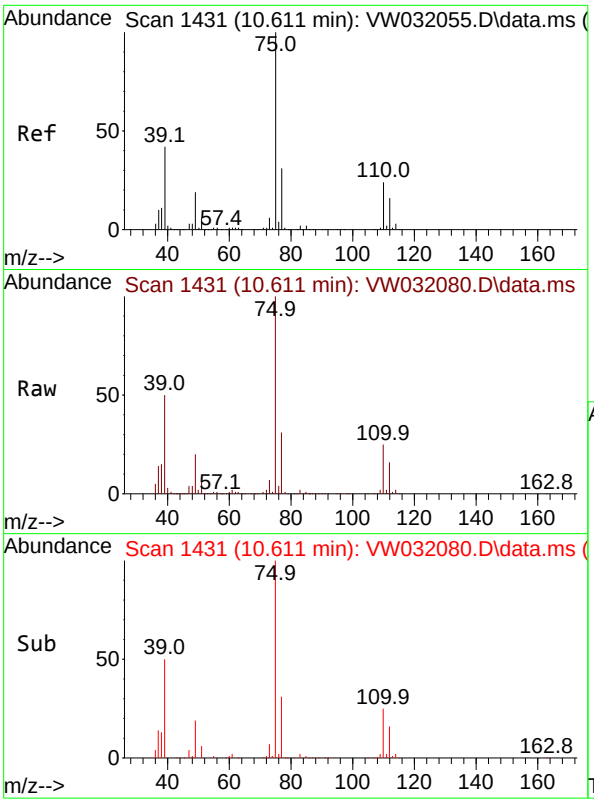


#52
Toluene
Concen: 54.839 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 92 Resp: 360912

Ion	Ratio	Lower	Upper
92	100		
91	168.5	136.3	204.5

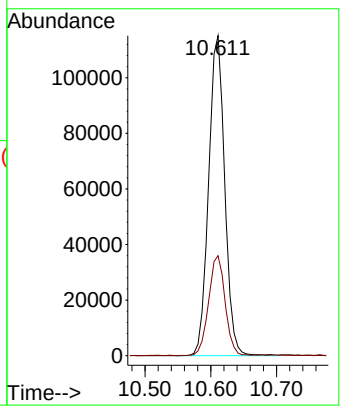




#53
t-1,3-Dichloropropene
Concen: 55.768 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 19614

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6



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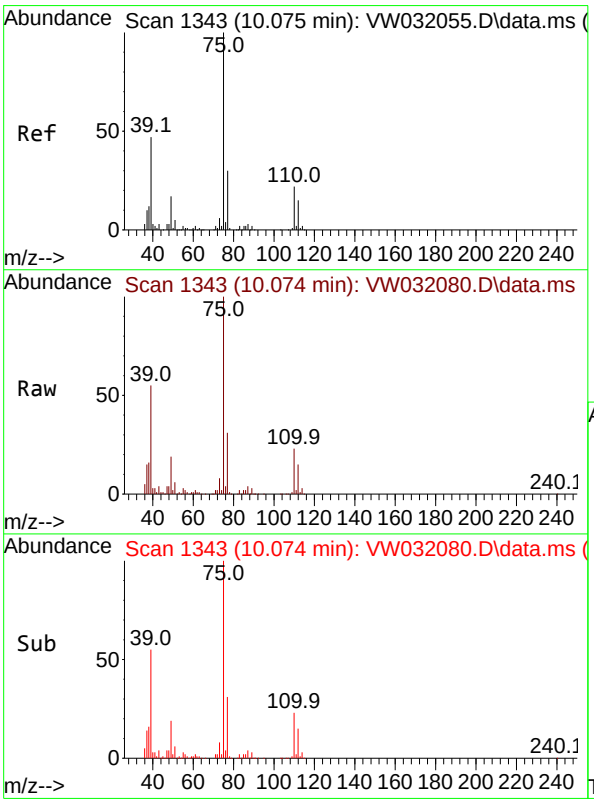
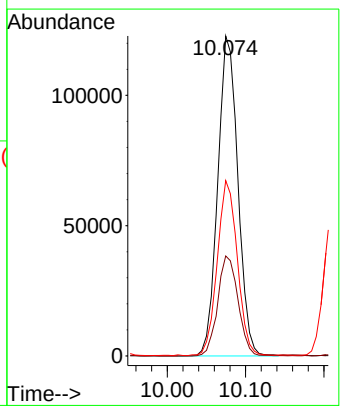
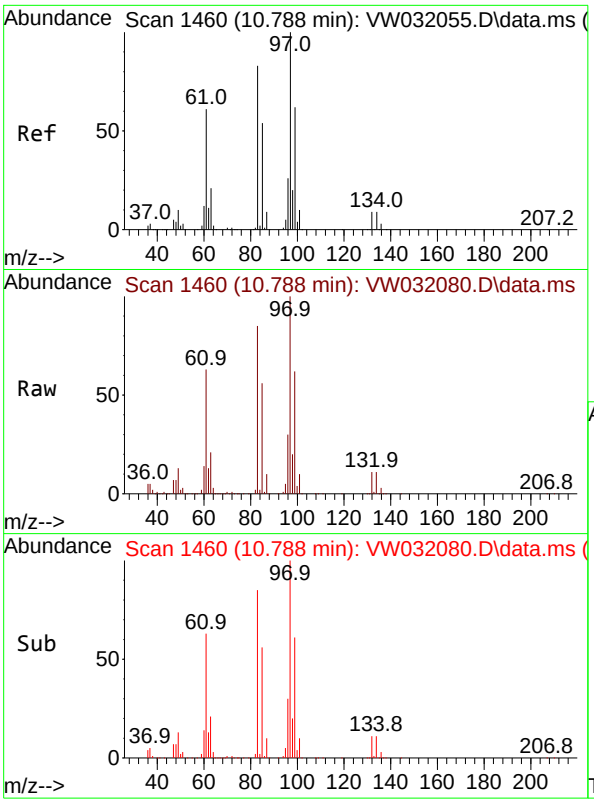


#54
cis-1,3-Dichloropropene
Concen: 54.997 ug/l
RT: 10.074 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 219444

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.0	36.0
39	54.5	37.8	56.8

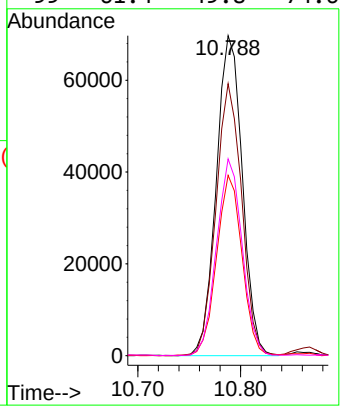




#55
1,1,2-Trichloroethane
Concen: 56.613 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 97 Resp: 12256

Ion	Ratio	Lower	Upper
97	100		
83	85.0	66.4	99.6
85	56.1	43.1	64.7
99	61.4	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
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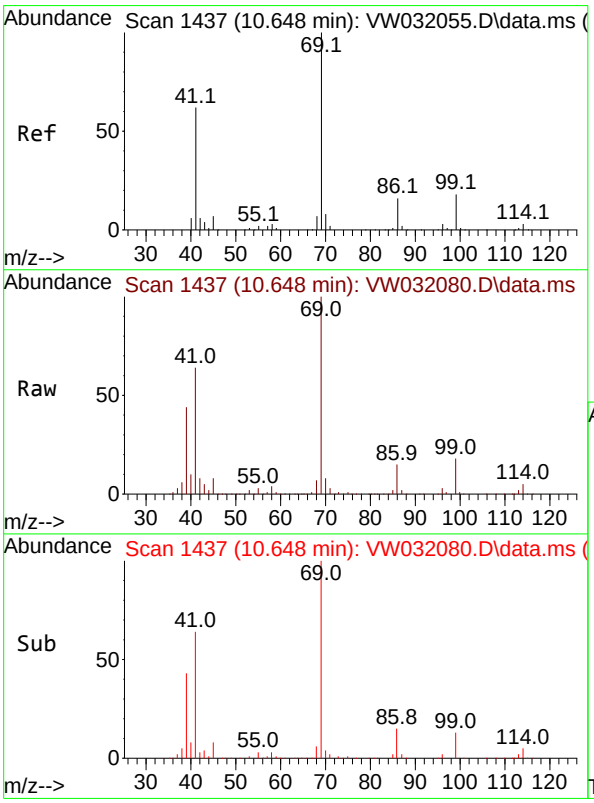
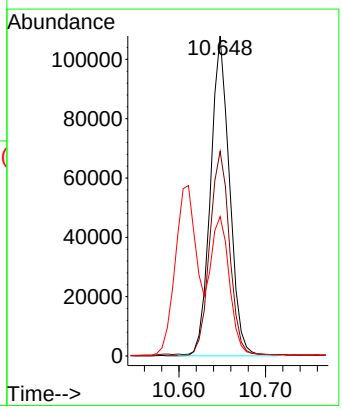
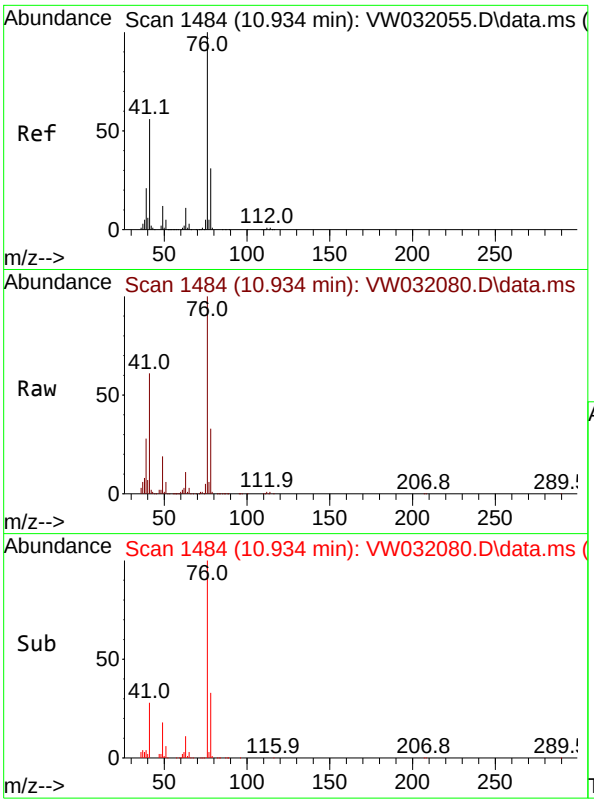


#56
Ethyl methacrylate
Concen: 56.621 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 69 Resp: 164035

Ion	Ratio	Lower	Upper
69	100		
41	66.3	51.2	76.8
39	43.0	25.4	38.0#





#57
1,3-Dichloropropane
Concen: 54.740 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 76 Resp: 20656

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.6

Instrument :
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ClientSampleId :
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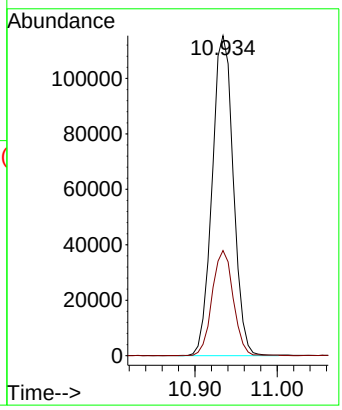
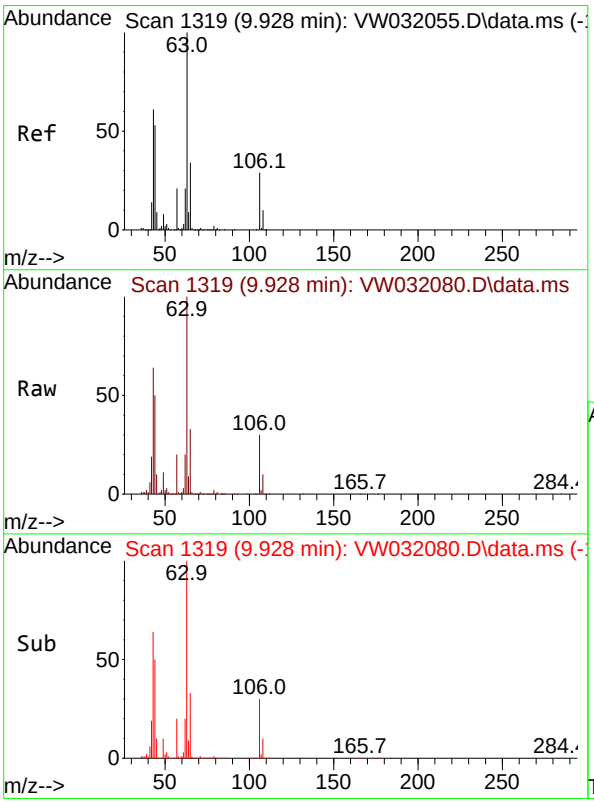
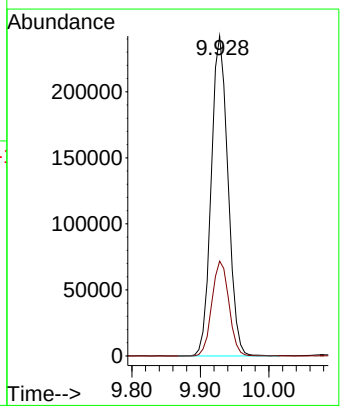


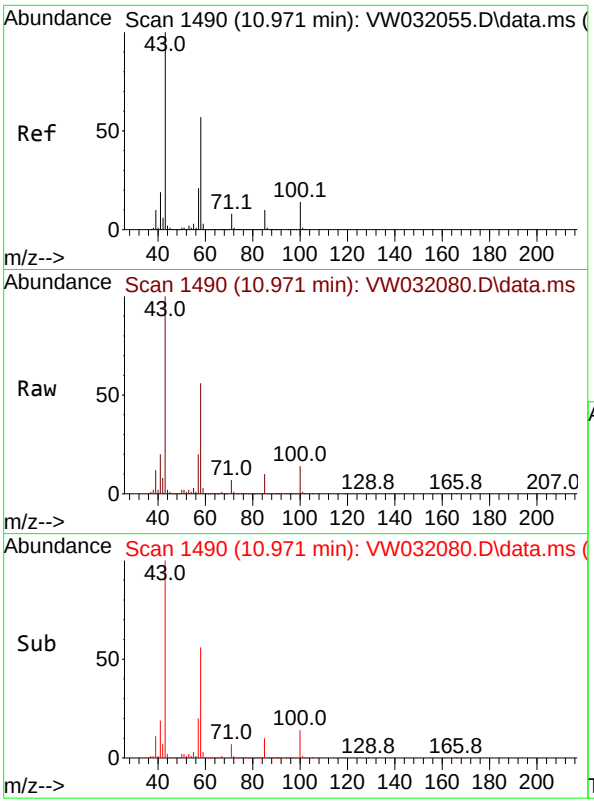


#58
2-Chloroethyl Vinyl ether
Concen: 256.070 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 63 Resp: 410338

Ion	Ratio	Lower	Upper
63	100		
106	30.1	23.5	35.3





#59
2-Hexanone
Concen: 303.226 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 43174

Ion	Ratio	Lower	Upper
43	100		
58	53.9	28.3	85.0

Instrument :
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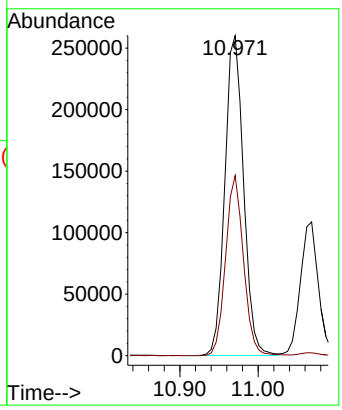
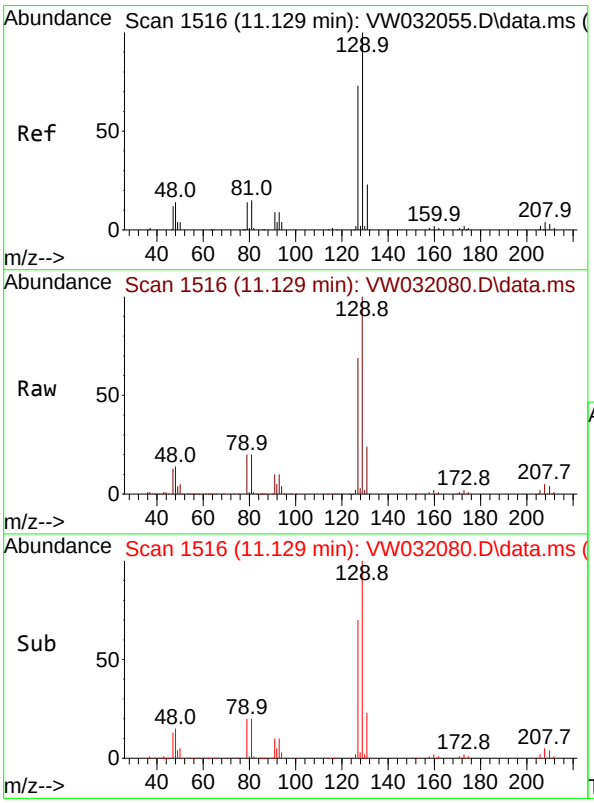
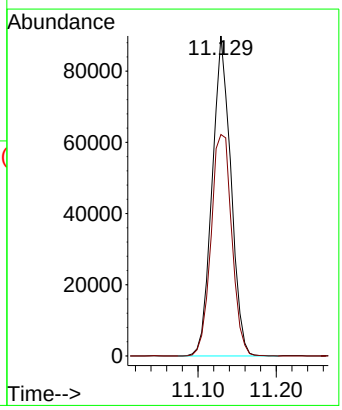


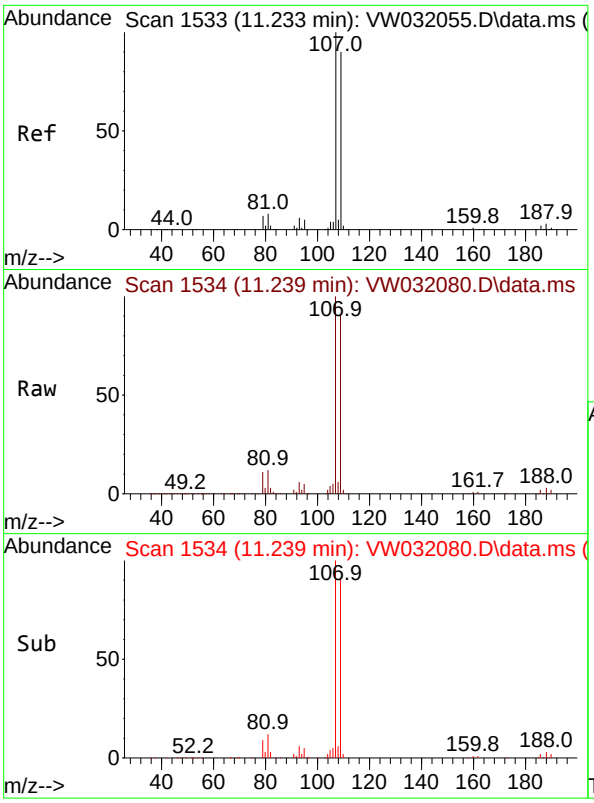


#60
Dibromochloromethane
Concen: 60.364 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:129 Resp: 149280

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9

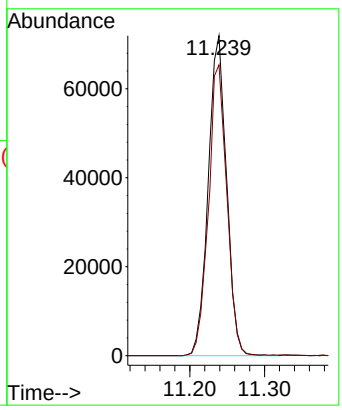




#61
1,2-Dibromoethane
Concen: 58.108 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:107 Resp: 12224

Ion	Ratio	Lower	Upper
107	100		
109	91.1	74.2	111.4



Instrument :
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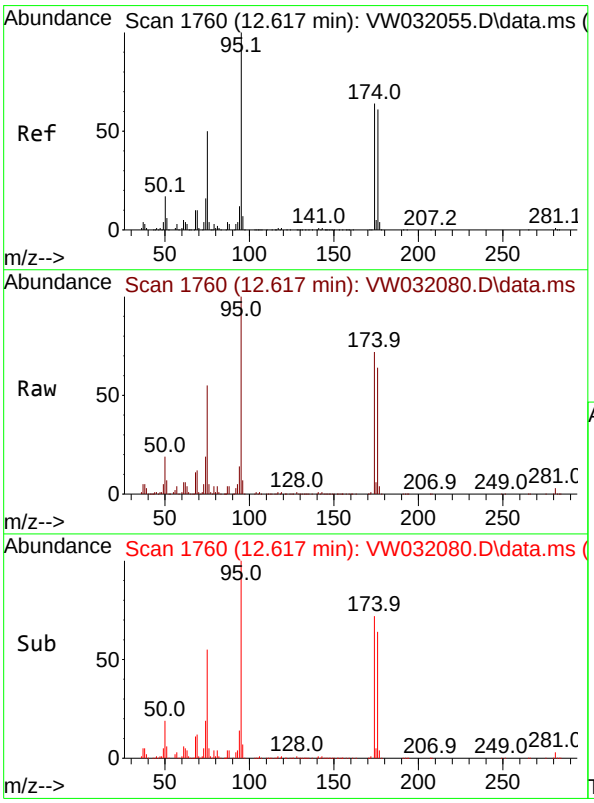
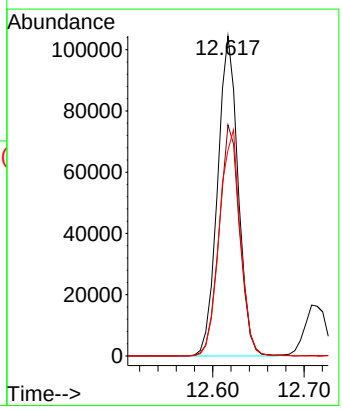
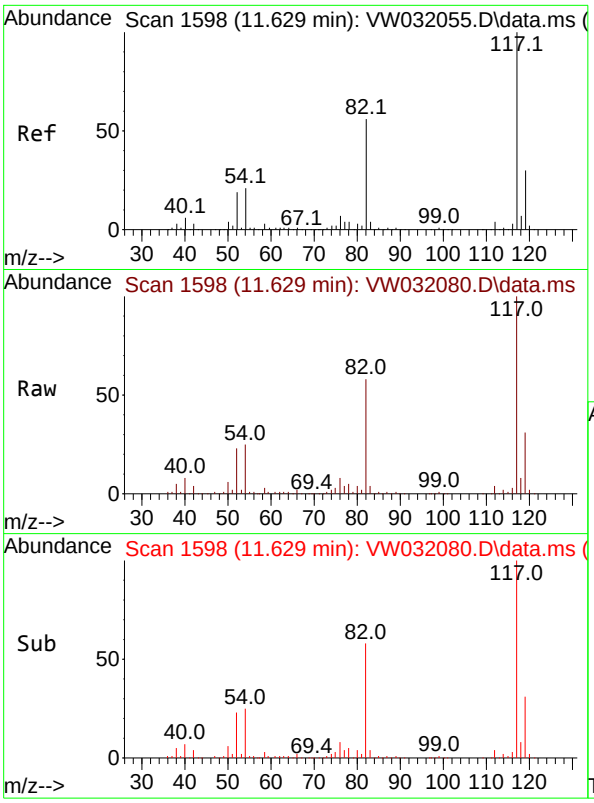


#62
4-Bromofluorobenzene
Concen: 50.275 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 95 Resp: 163398

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	129.0
176	72.4	0.0	124.6

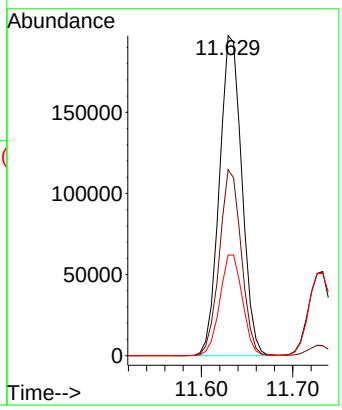




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:117 Resp: 33722

Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.0	67.4
119	31.5	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
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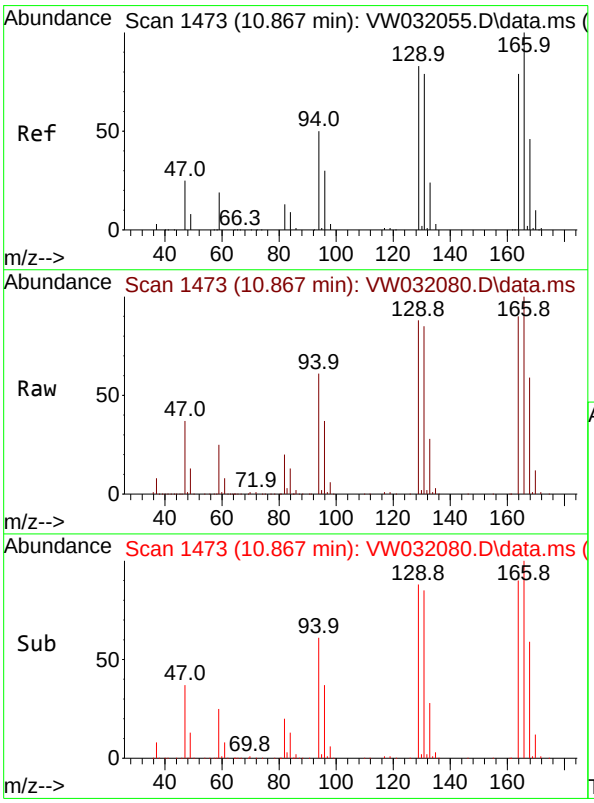
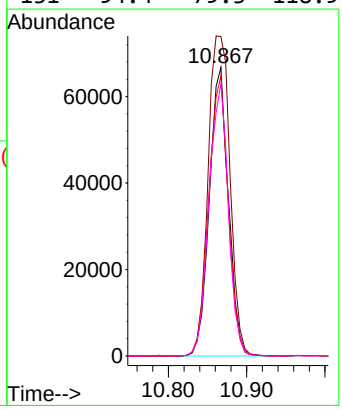
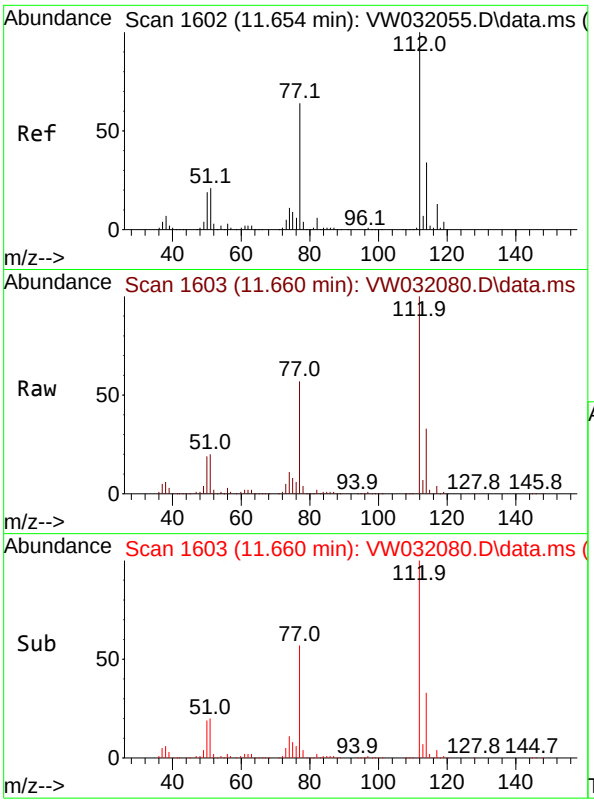


#64
Tetrachloroethene
Concen: 57.783 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:164 Resp: 112551

Ion	Ratio	Lower	Upper
164	100		
166	110.7	100.9	151.3
129	97.1	83.6	125.4
131	94.4	79.3	118.9

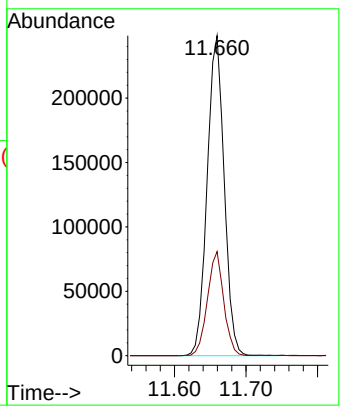




#65
Chlorobenzene
Concen: 55.882 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:112 Resp: 41018

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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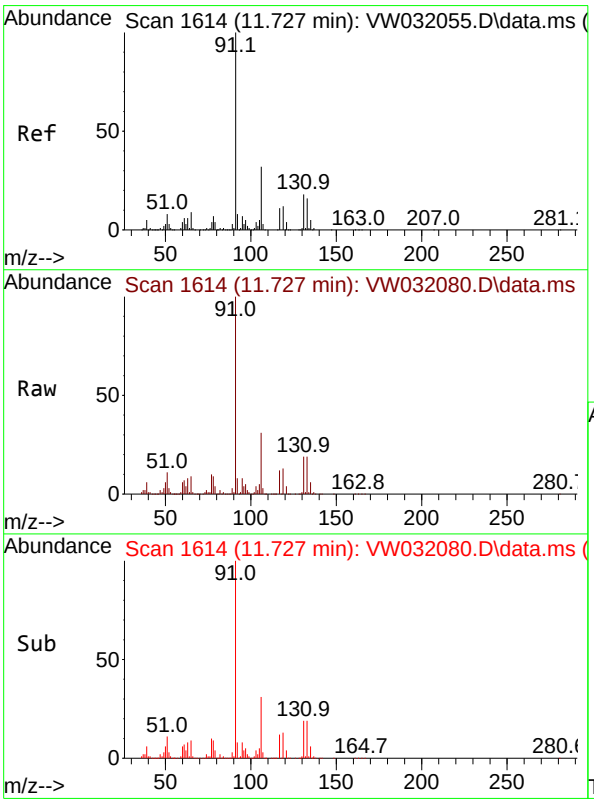
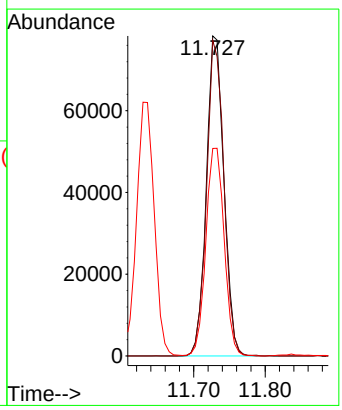
Supervised By :Mahesh Dadoda 08/19/2025

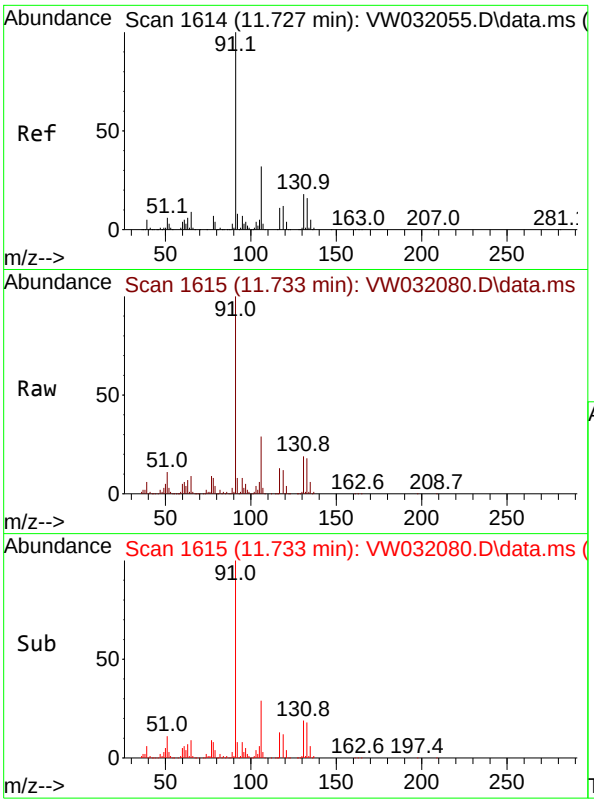


#66
1,1,1,2-Tetrachloroethane
Concen: 58.241 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:131 Resp: 133382

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.3	142.0
119	67.9	34.5	103.5

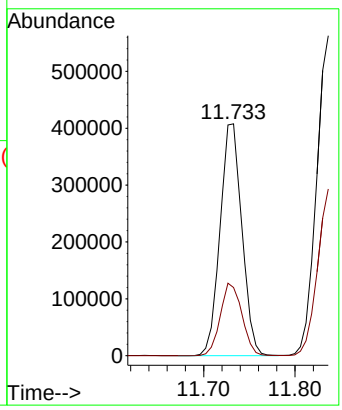




#67
Ethyl Benzene
Concen: 54.505 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 67768

Ion	Ratio	Lower	Upper
91	100		
106	29.4	25.4	38.0



Instrument :
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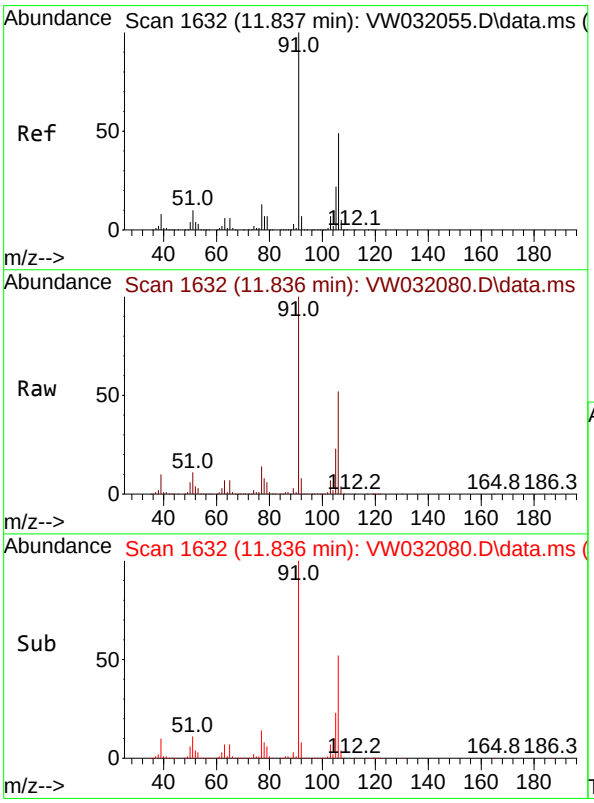
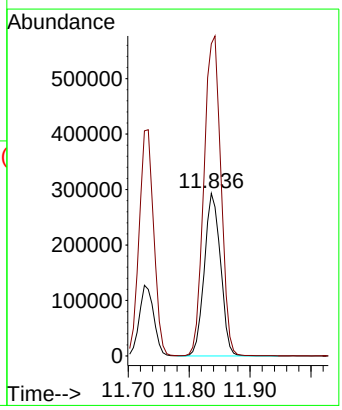
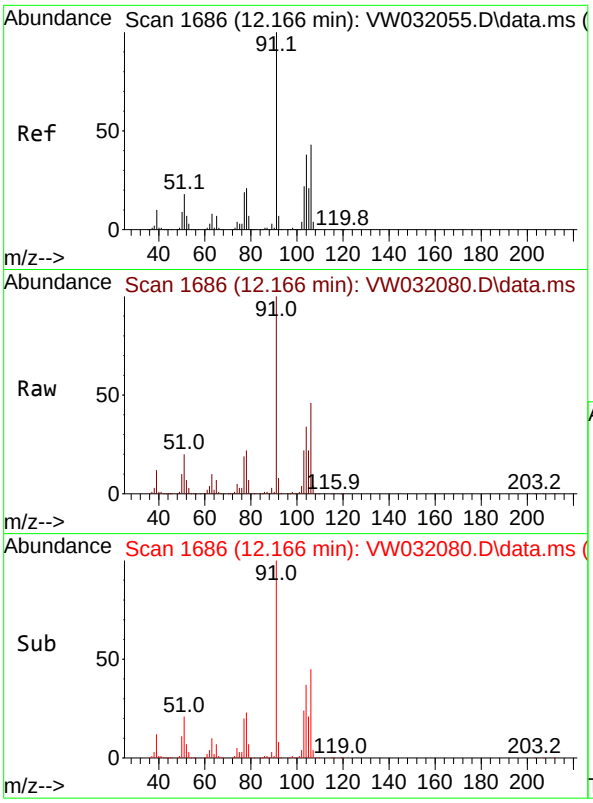


#68
m/p-Xylenes
Concen: 112.646 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:106 Resp: 540433

Ion	Ratio	Lower	Upper
106	100		
91	206.6	162.2	243.2





#69
o-Xylene
Concen: 58.137 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:106 Resp: 25779

Ion	Ratio	Lower	Upper
106	100		
91	216.5	110.8	332.3

Instrument :
MSVOA_W
ClientSampleId :
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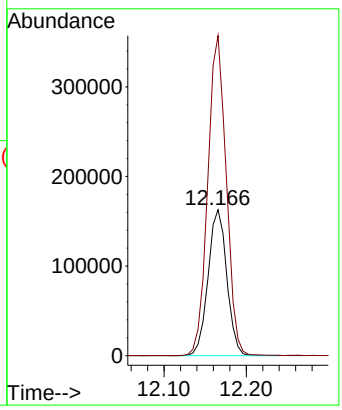
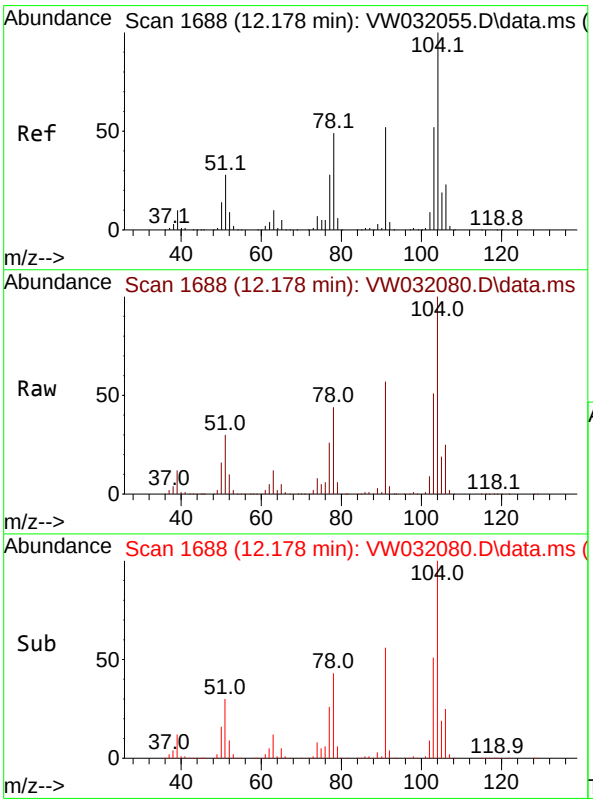
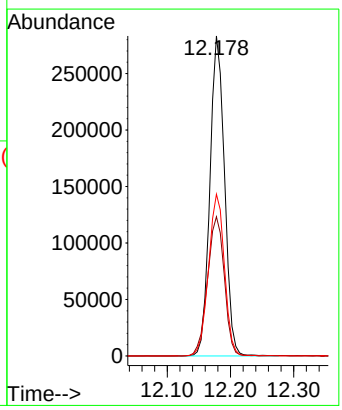


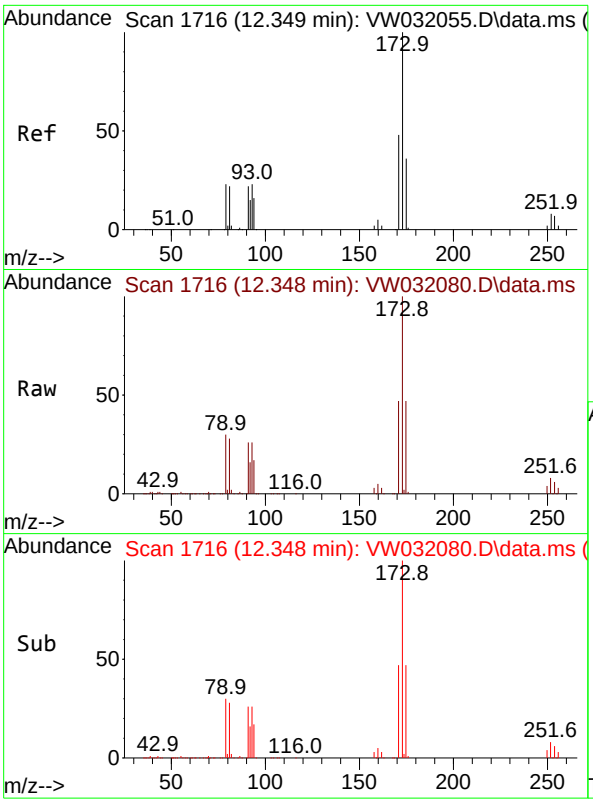


#70
Styrene
Concen: 57.835 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:104 Resp: 455535

Ion	Ratio	Lower	Upper
104	100		
78	49.8	41.2	61.8
103	55.0	43.8	65.8

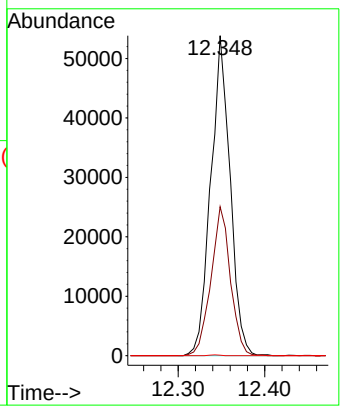




#71
Bromoform
Concen: 63.831 ug/l
RT: 12.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:173 Resp: 8361

Ion	Ratio	Lower	Upper
173	100		
175	46.8	22.9	68.7
254	0.1	0.0	0.0



Instrument :
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ClientSampleId :
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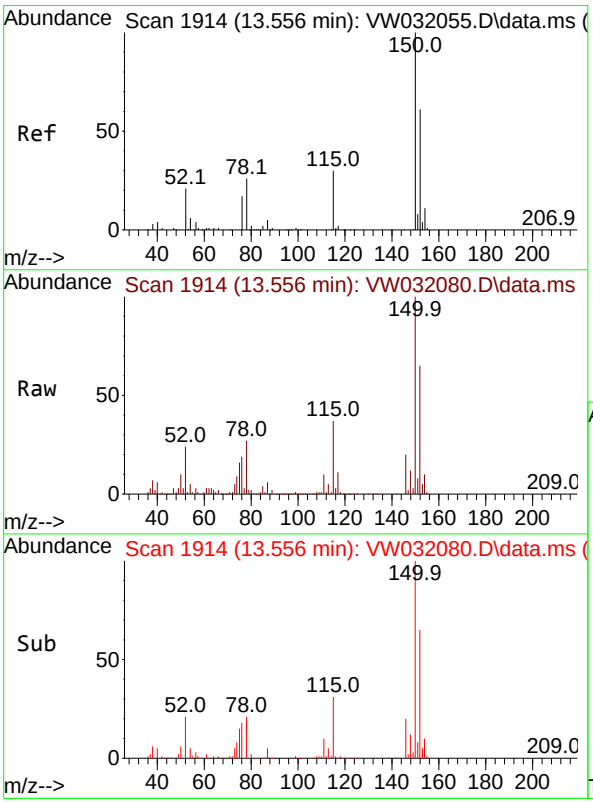
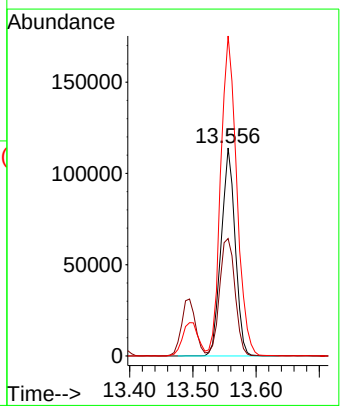
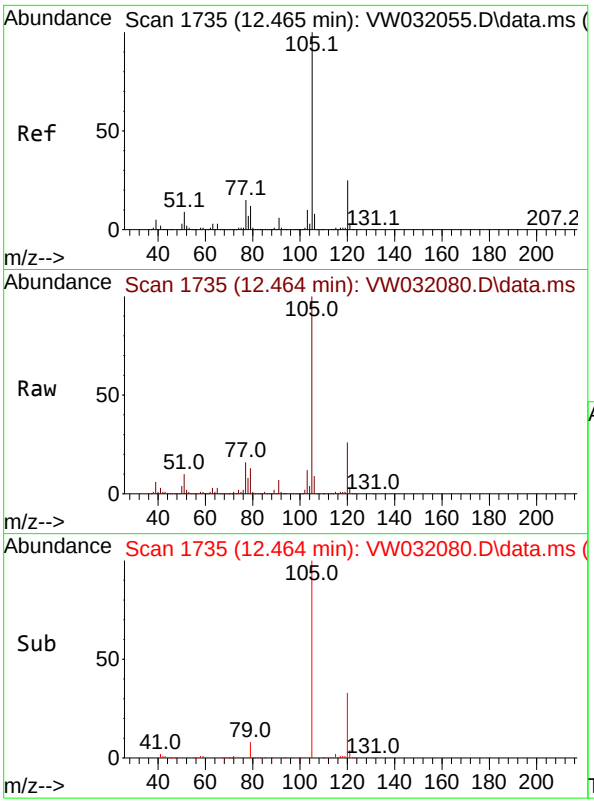


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:152 Resp: 174813

Ion	Ratio	Lower	Upper
152	100		
115	62.3	32.6	97.8
150	175.9	0.0	359.4

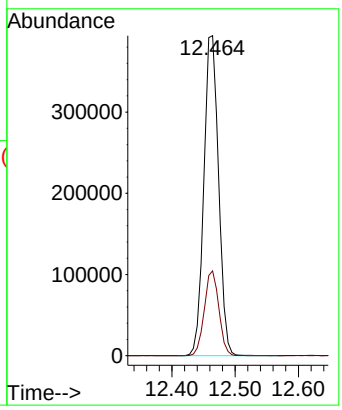




#73
Isopropylbenzene
Concen: 52.307 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:105 Resp: 63903

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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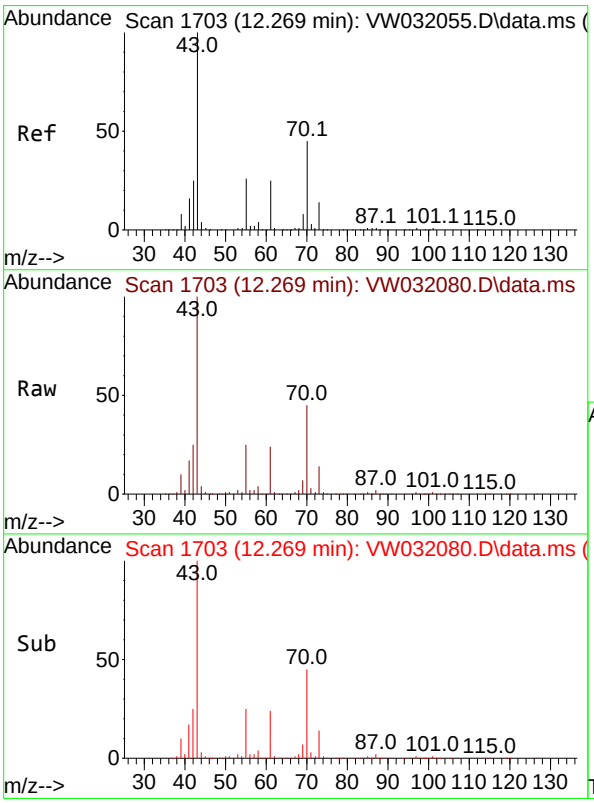
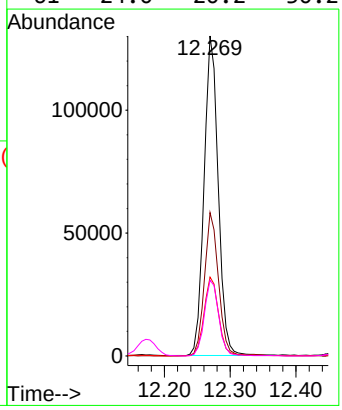
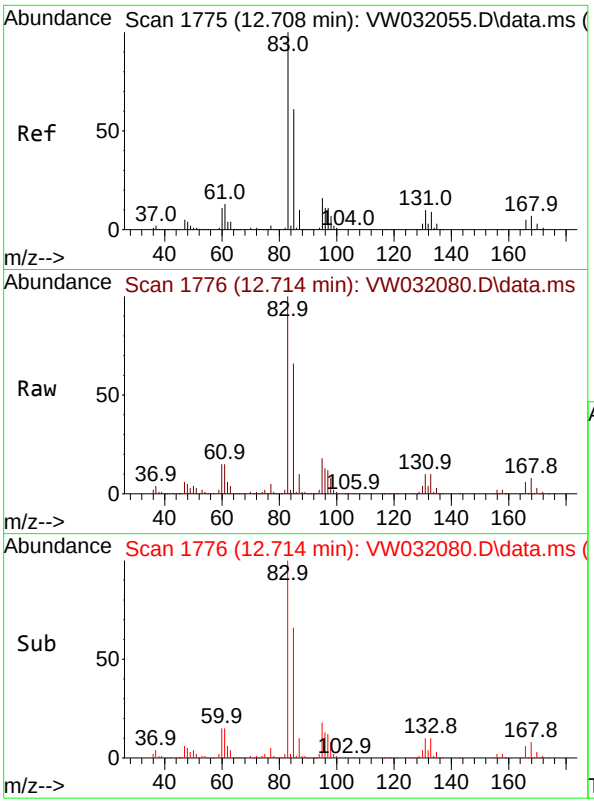


#74
N-amyl acetate
Concen: 55.601 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 194883

Ion	Ratio	Lower	Upper
43	100		
70	44.4	37.0	55.4
55	25.6	21.1	31.7
61	24.0	20.2	30.2

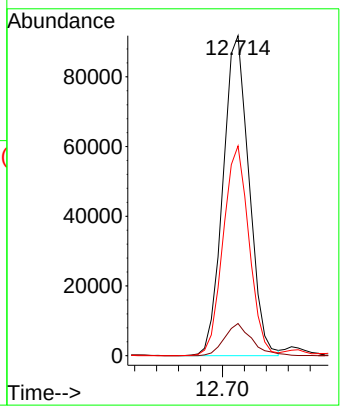




#75
1,1,2,2-Tetrachloroethane
Concen: 52.197 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 83 Resp: 15140

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	65.3	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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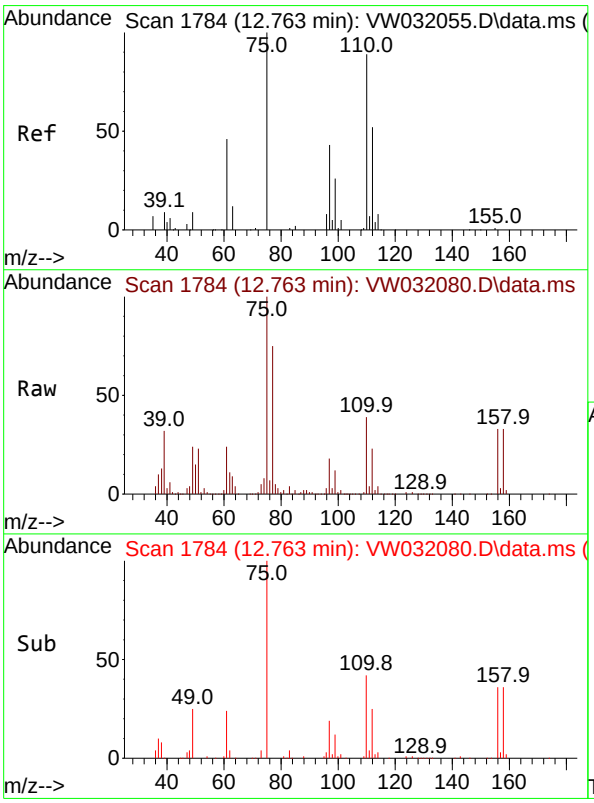
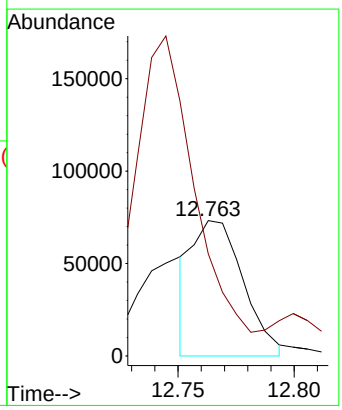
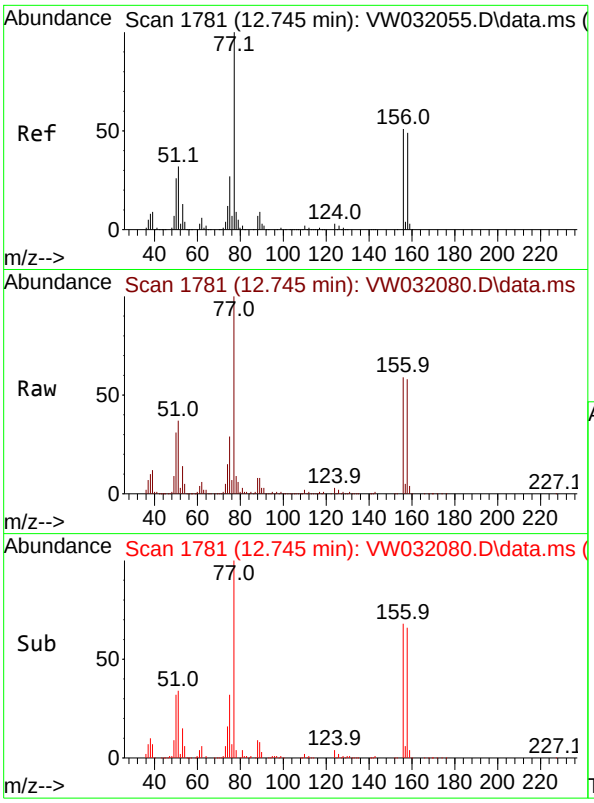


#76
1,2,3-Trichloropropane
Concen: 47.043 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 111615

Ion	Ratio	Lower	Upper
75	100		
77	285.4	123.5	370.5

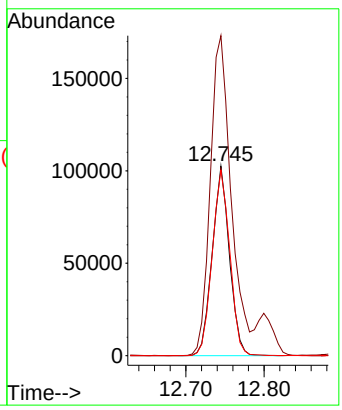




#77
Bromobenzene
Concen: 53.753 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:156 Resp: 15684

Ion	Ratio	Lower	Upper
156	100		
77	203.1	108.7	326.3
158	100.2	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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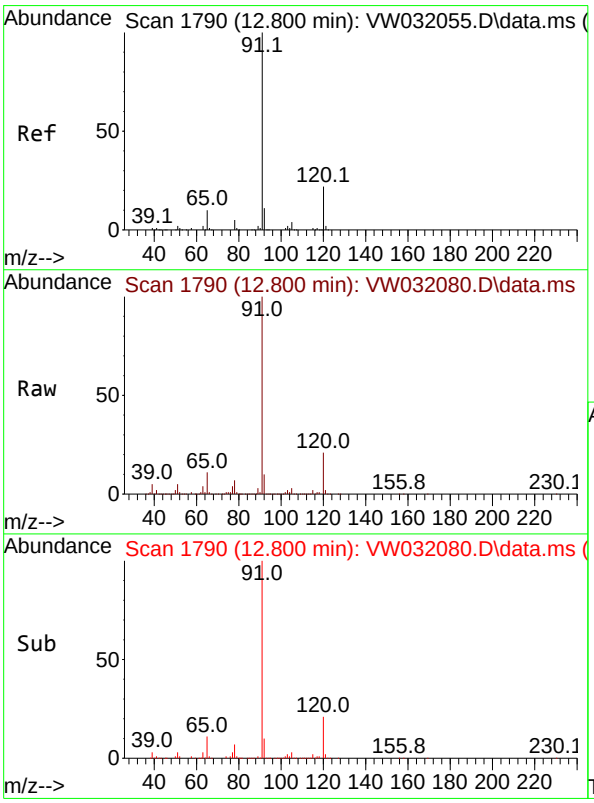
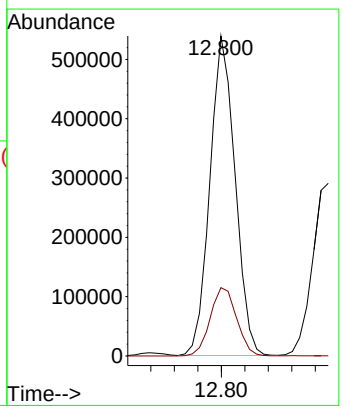
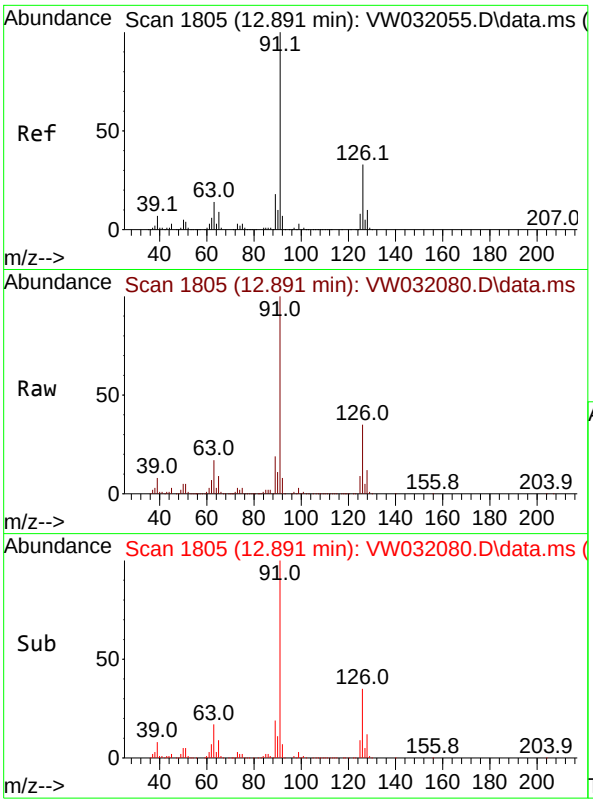


#78
n-propylbenzene
Concen: 53.406 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 803277

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3





#79
2-Chlorotoluene
Concen: 51.172 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 47502

Ion	Ratio	Lower	Upper
91	100		
126	33.0	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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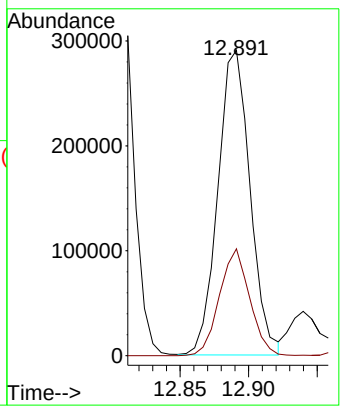
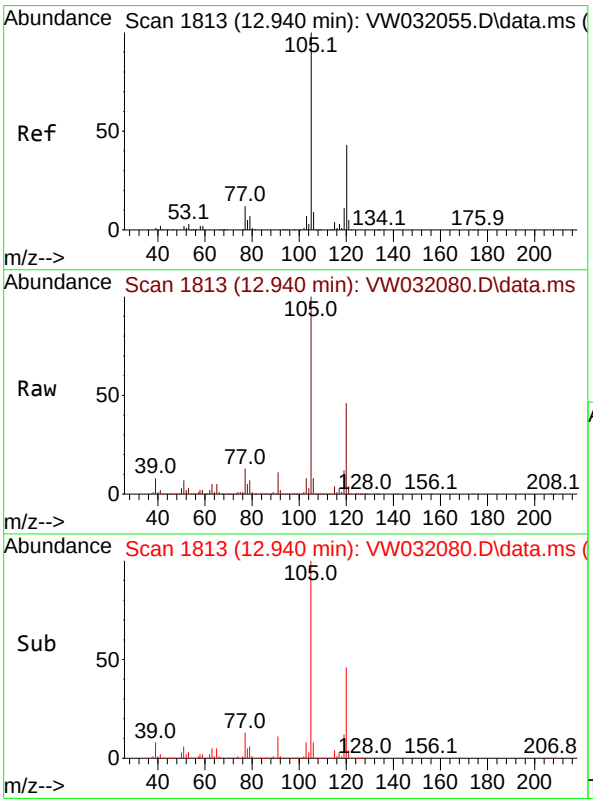
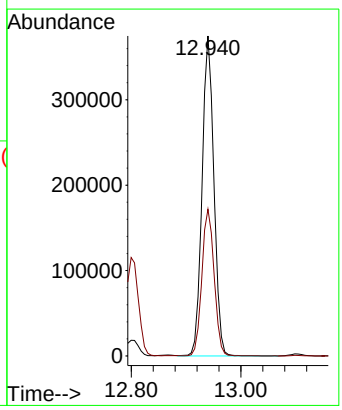


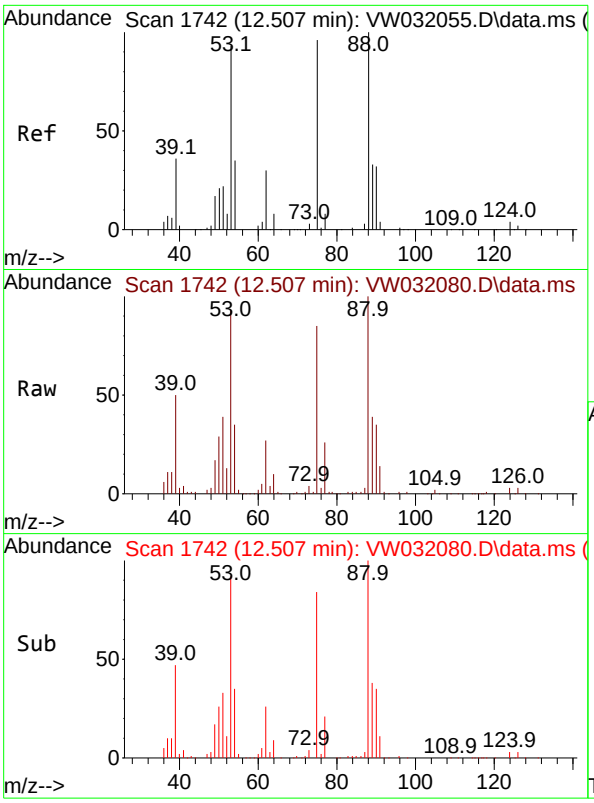


#80
1,3,5-Trimethylbenzene
Concen: 53.983 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:105 Resp: 559898

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 50.402 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 4619

Ion	Ratio	Lower	Upper
75	100		
53	113.8	81.0	121.6
89	48.0	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

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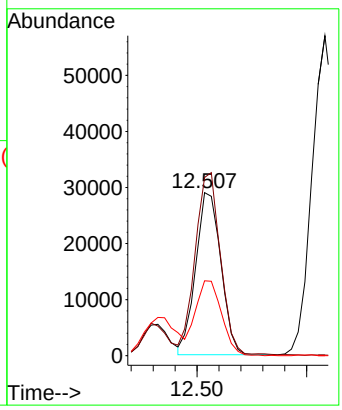
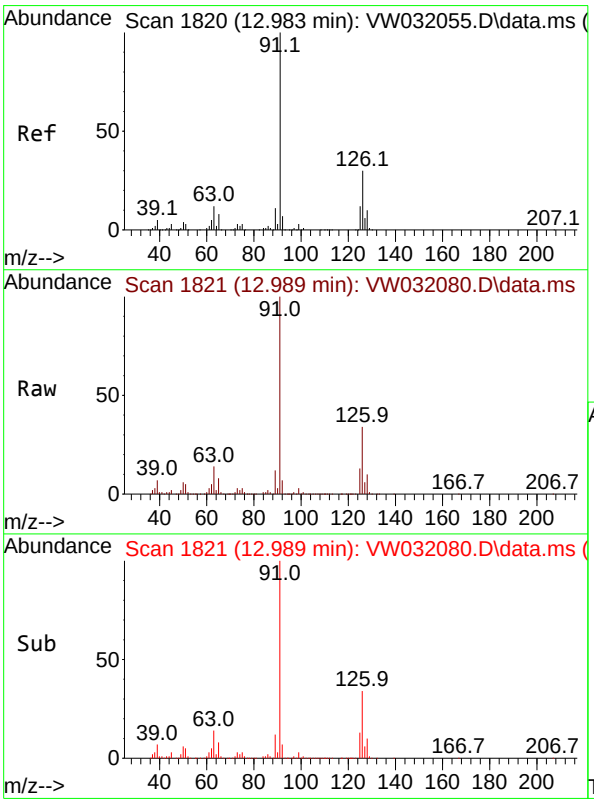
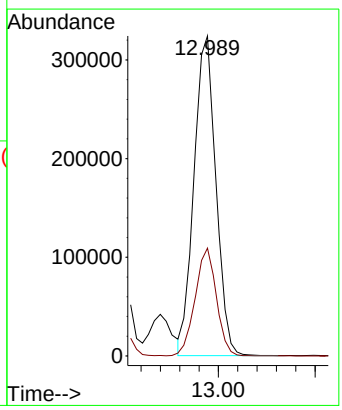


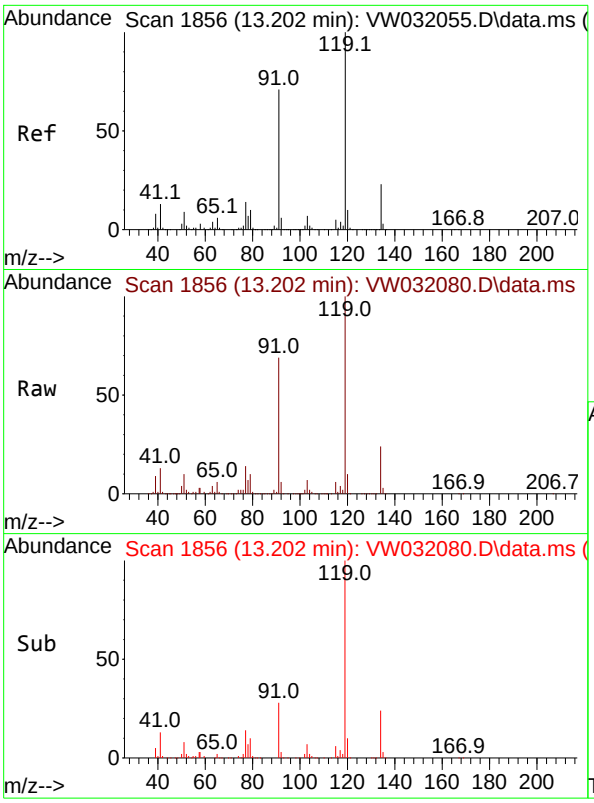


#82
4-Chlorotoluene
Concen: 51.725 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 510140

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.5	46.5

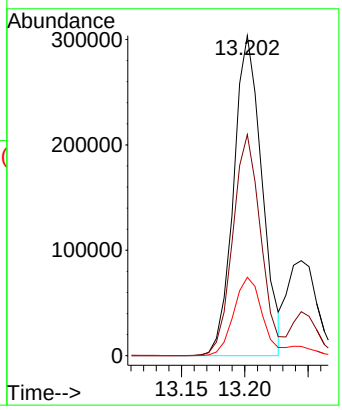




#83
tert-Butylbenzene
Concen: 54.905 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:119 Resp: 47261

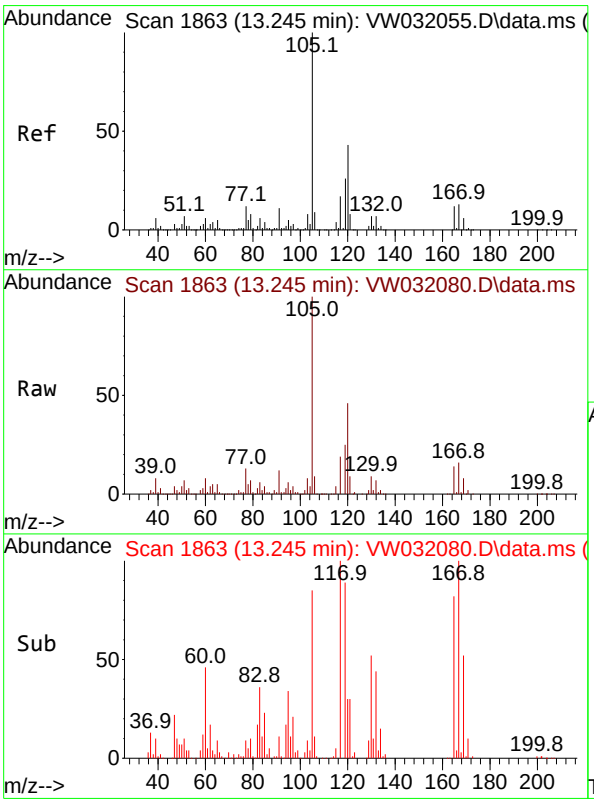
Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.3	105.9
134	25.0	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

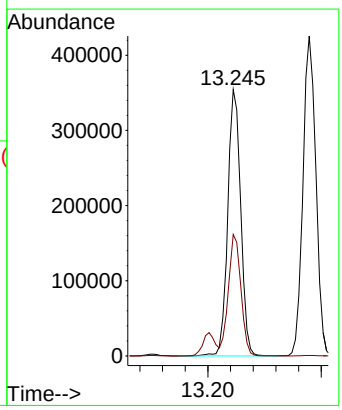
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

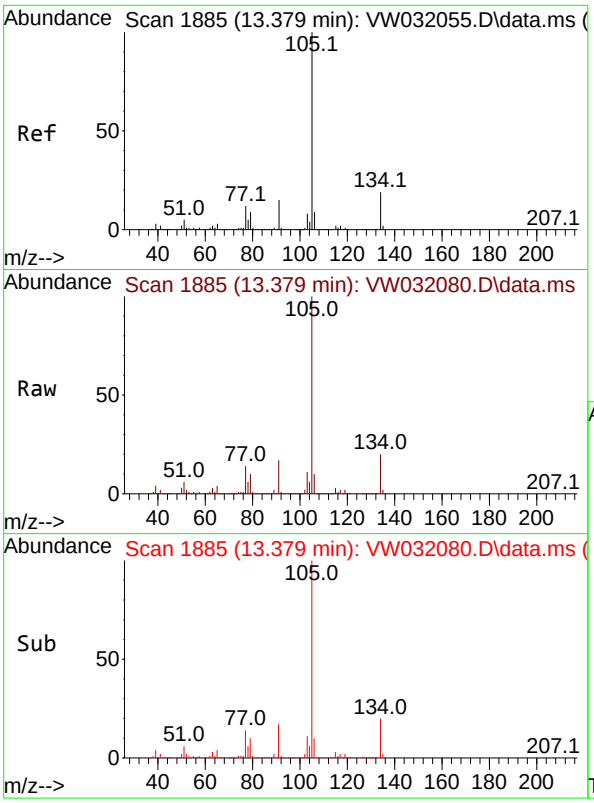


#84
1,2,4-Trimethylbenzene
Concen: 53.062 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:105 Resp: 560238

Ion	Ratio	Lower	Upper
105	100		
120	44.2	21.6	64.8

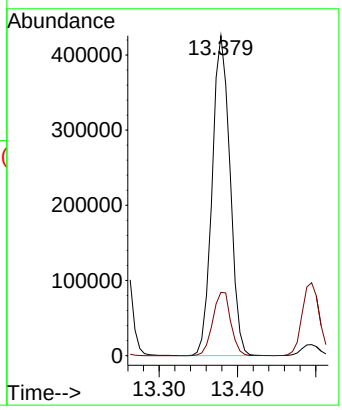




#85
sec-Butylbenzene
Concen: 51.695 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:105 Resp: 67276

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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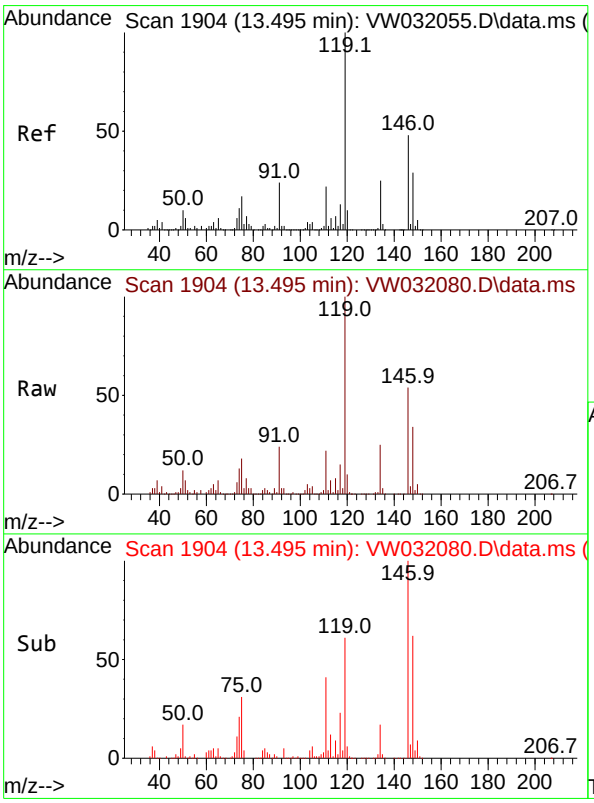
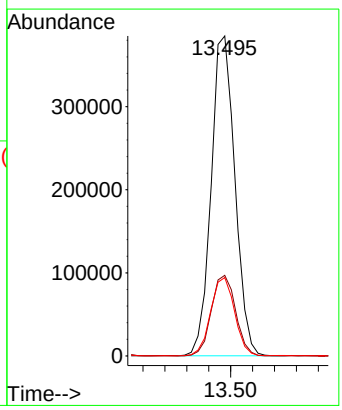
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

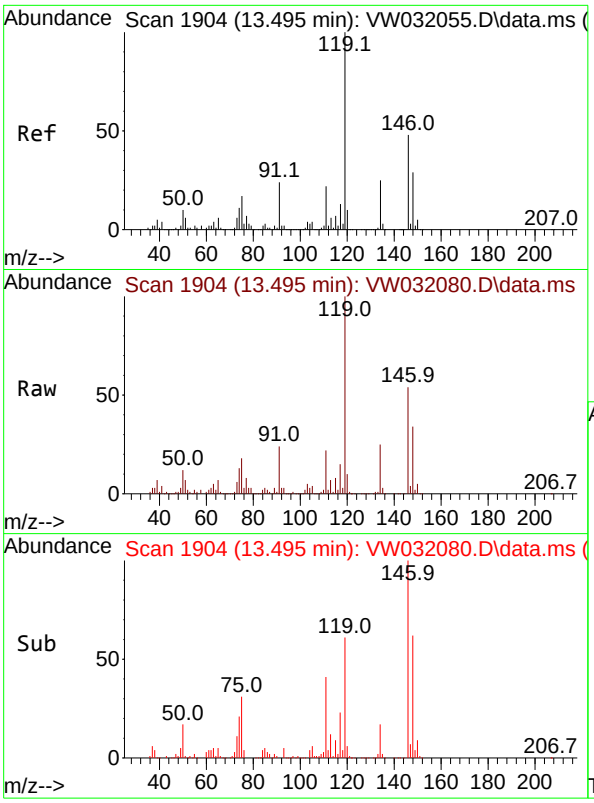


#86
p-Isopropyltoluene
Concen: 53.502 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:119 Resp: 580472

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.4	37.0
91	24.7	12.1	36.3

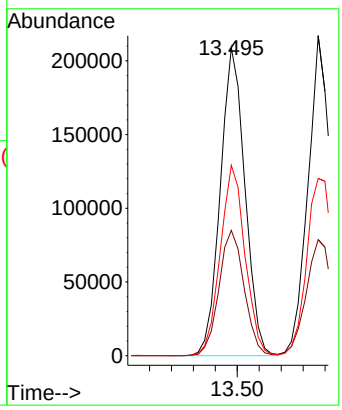




#87
1,3-Dichlorobenzene
Concen: 56.169 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:146 Resp: 32612

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.2	63.6
148	62.1	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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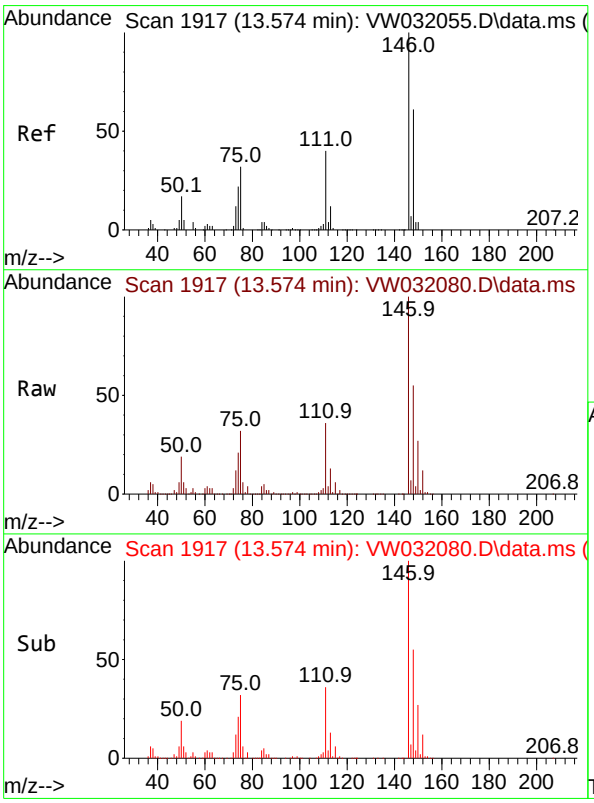
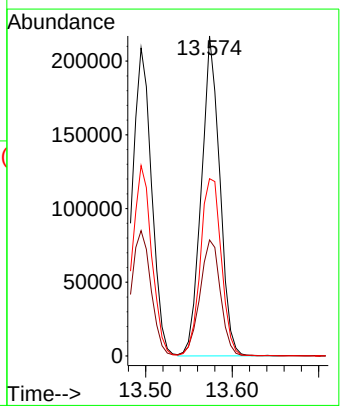
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

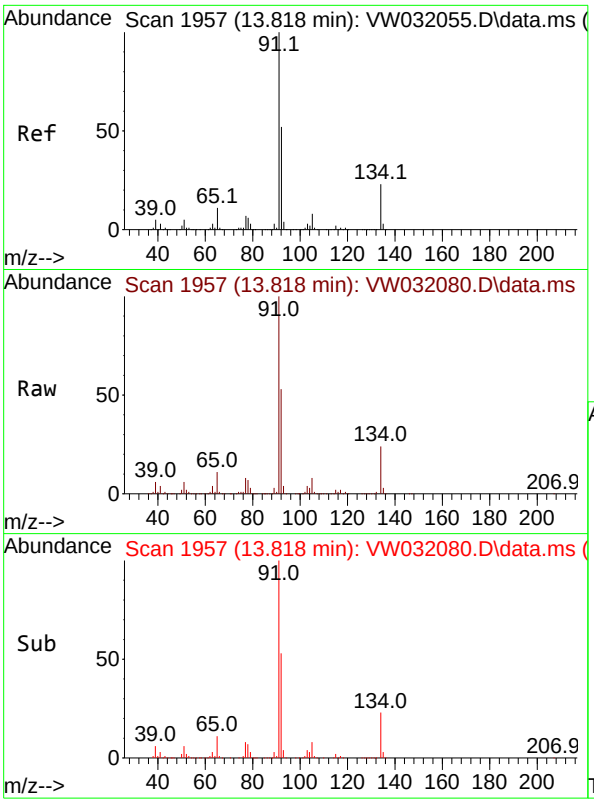


#88
1,4-Dichlorobenzene
Concen: 54.595 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:146 Resp: 320333

Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.6	64.6
148	62.9	32.0	96.2

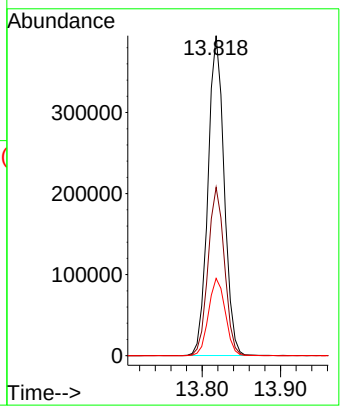




#89
n-Butylbenzene
Concen: 53.618 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 56515

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.7	80.1
134	25.0	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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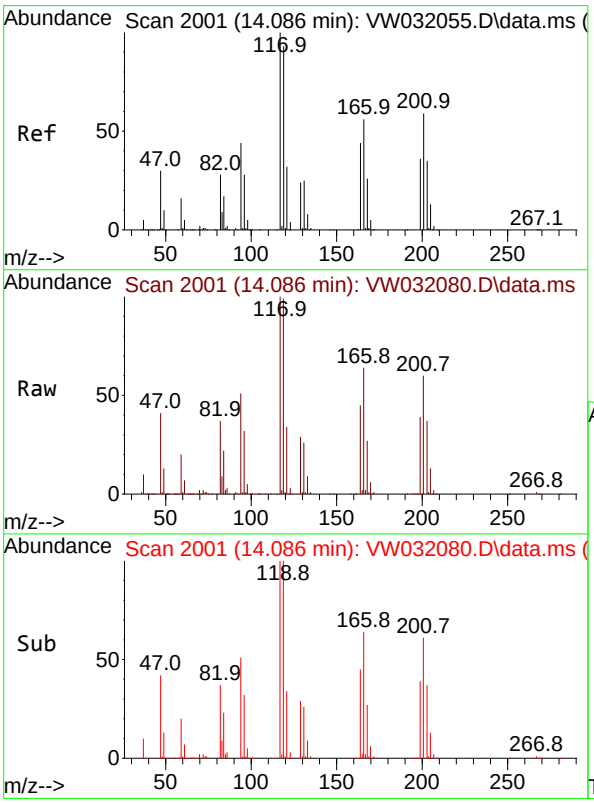
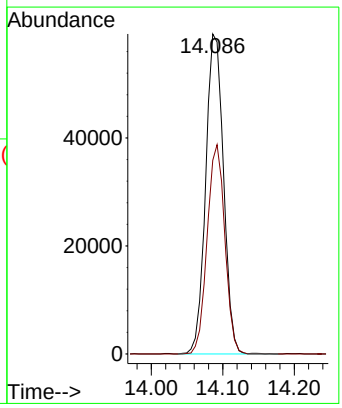
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

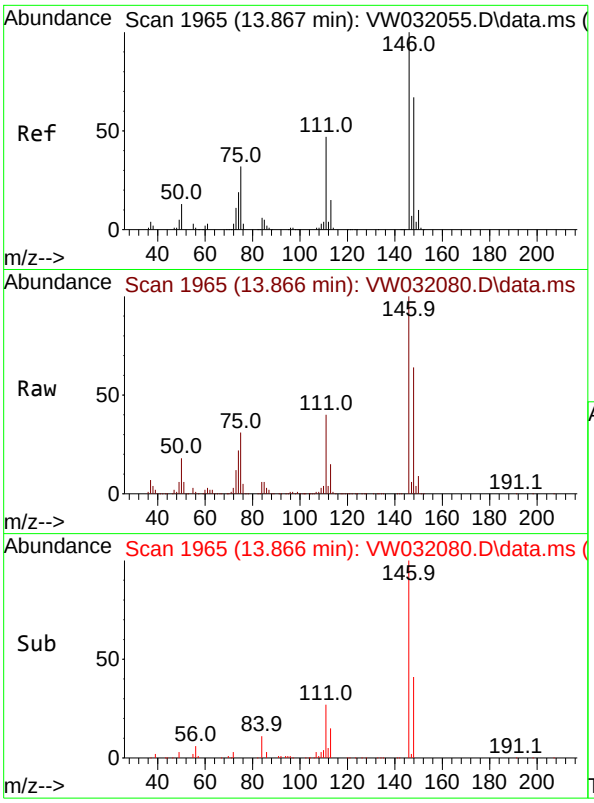


#90
Hexachloroethane
Concen: 51.649 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:117 Resp: 102479

Ion	Ratio	Lower	Upper
117	100		
201	64.8	30.9	92.5

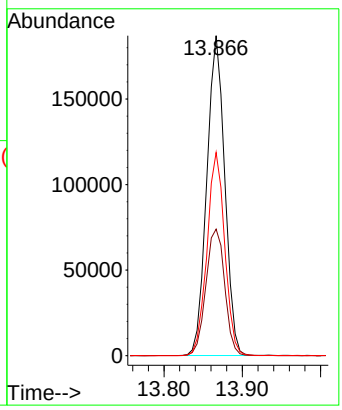




#91
1,2-Dichlorobenzene
Concen: 56.464 ug/l
RT: 13.866 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:146 Resp: 29697

Ion	Ratio	Lower	Upper
146	100		
111	41.7	23.1	69.3
148	62.9	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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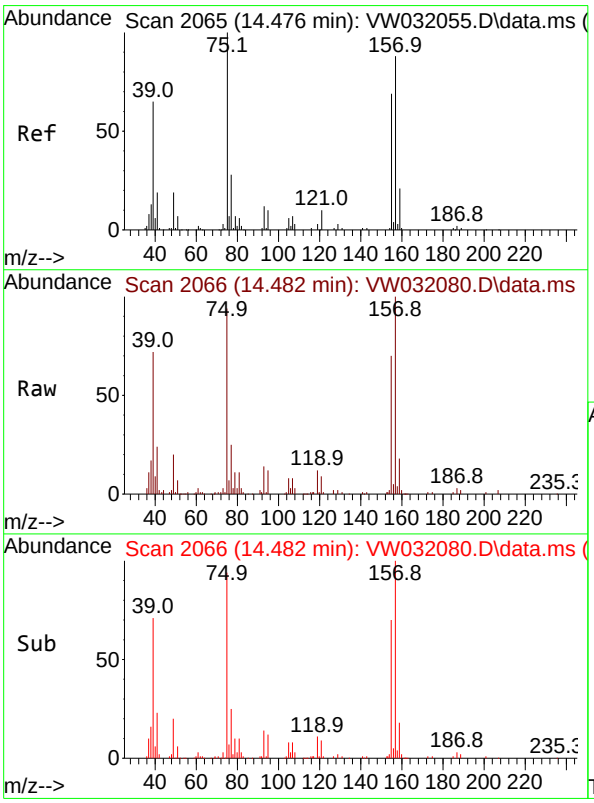
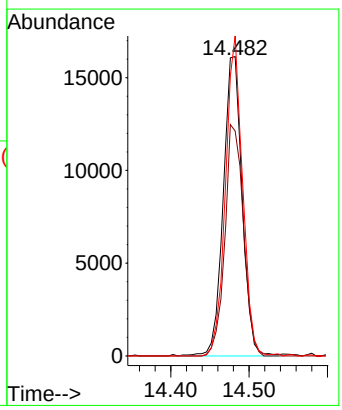
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

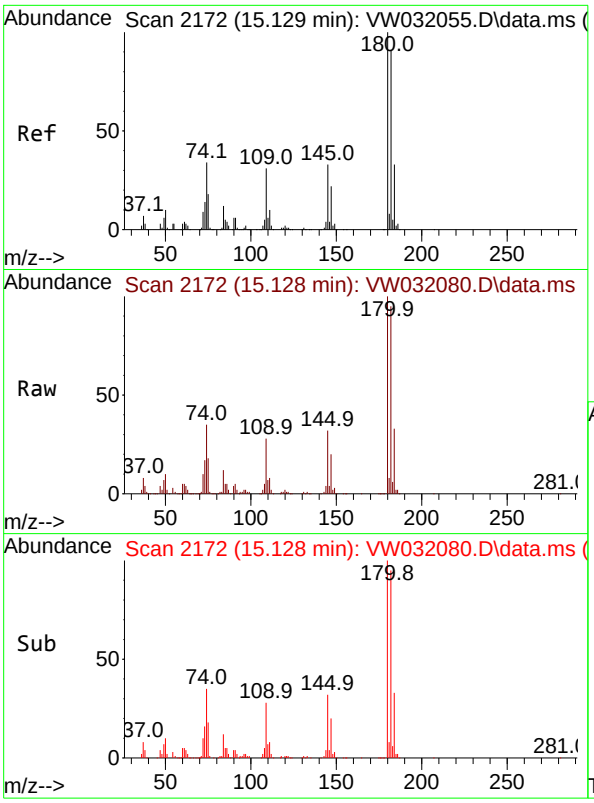


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.473 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 27059

Ion	Ratio	Lower	Upper
75	100		
155	75.8	35.2	105.6
157	96.7	47.5	142.6

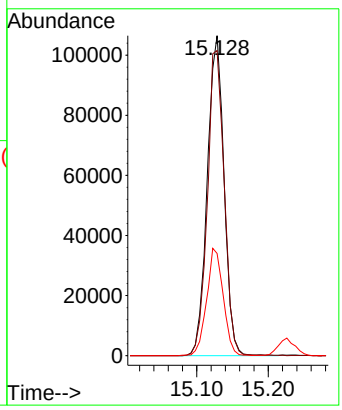




#93
1,2,4-Trichlorobenzene
Concen: 55.052 ug/l
RT: 15.128 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:180 Resp: 17321

Ion	Ratio	Lower	Upper
180	100		
182	96.0	49.0	147.0
145	33.3	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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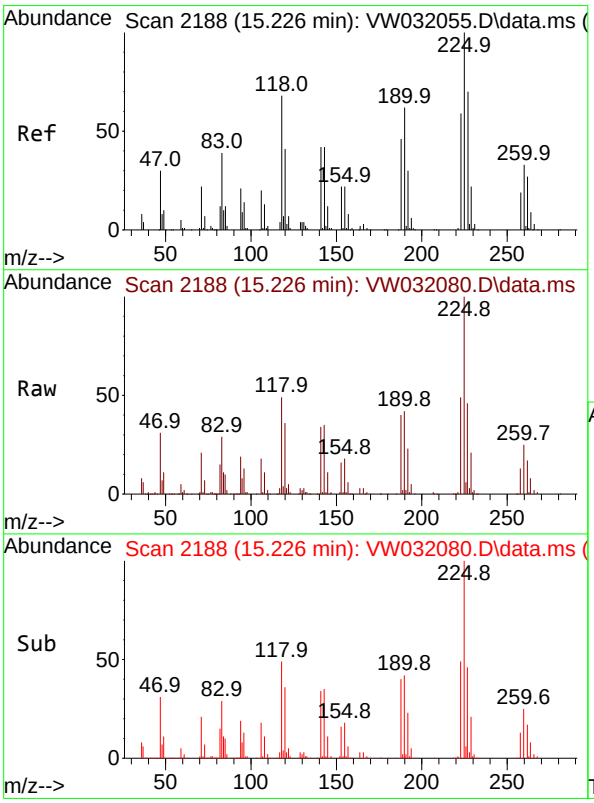
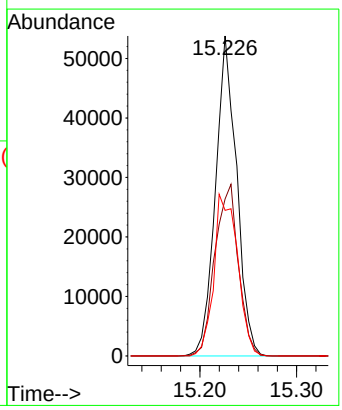
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

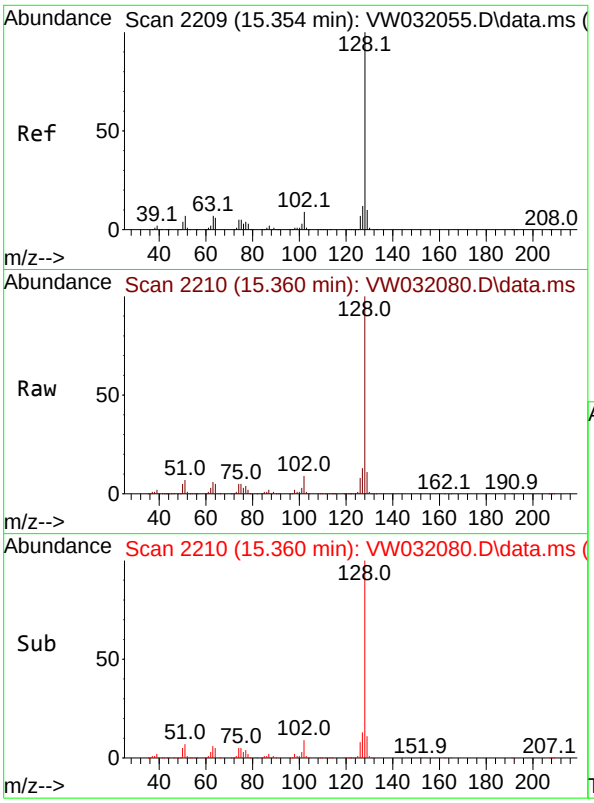


#94
Hexachlorobutadiene
Concen: 57.968 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:225 Resp: 81528

Ion	Ratio	Lower	Upper
225	100		
223	59.7	31.8	95.3
227	56.6	33.5	100.5

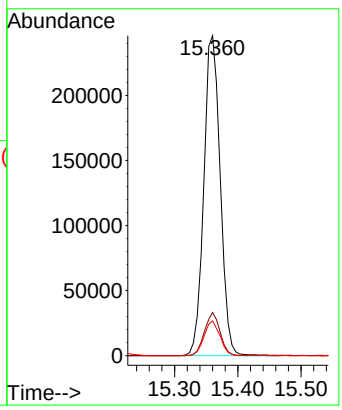




#95
Naphthalene
Concen: 57.653 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:128 Resp: 44447

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.6	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
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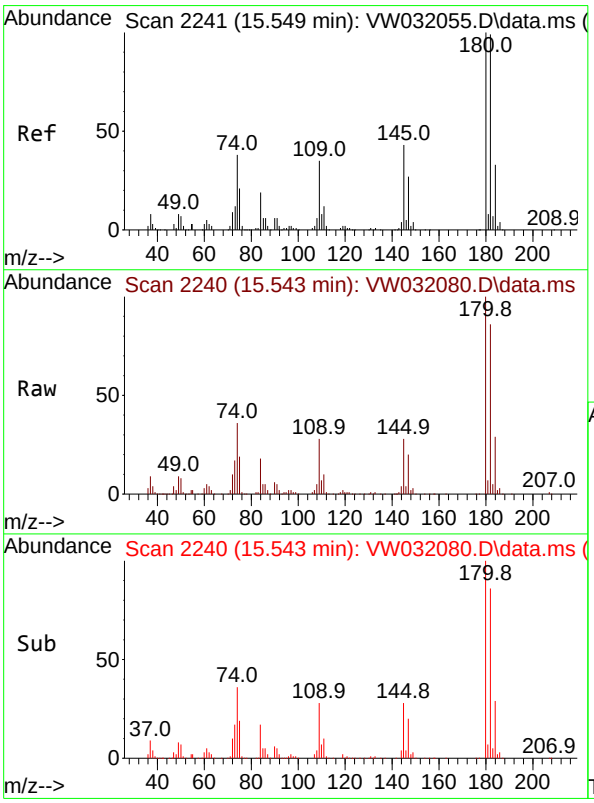
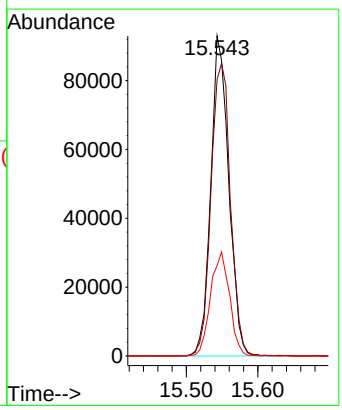
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 56.917 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:180 Resp: 162937

Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.0	138.0
145	34.3	19.2	57.6



Sample Results: **VW032080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.358	0.356	0.6	99	0.00
3	P	Chloromethane	0.482	0.429	11.0	92	0.00
4	C	Vinyl Chloride	0.583	0.555	4.8#	98	0.00
5	T	Bromomethane	0.437	0.471	-7.8	107	0.00
6	T	Chloroethane	0.386	0.395	-2.3	101	0.00
7	T	Trichlorofluoromethane	0.467	0.539	-15.4	109	0.00
8	T	Diethyl Ether	0.382	0.413	-8.1	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.609	-10.5	110	0.01
10	T	Methyl Iodide	0.781	0.804	-2.9	101	0.00
11	T	Tert butyl alcohol	0.047	0.045	4.3	84	0.00
12	CM	1,1-Dichloroethene	0.606	0.656	-8.3#	107	0.00
13	T	Acrolein	0.075	0.044	41.3#	58	0.00
14	T	Allyl chloride	0.883	0.796	9.9	87	0.00
15	T	Acrylonitrile	0.182	0.185	-1.6	90	0.00
16	T	Acetone	0.167	0.198	-18.6	114	0.00
17	T	Carbon Disulfide	1.628	1.465	10.0	88	0.00
18	T	Methyl Acetate	0.530	0.535	-0.9	90	0.00
19	T	Methyl tert-butyl Ether	1.068	1.075	-0.7	91	0.00
20	T	Methylene Chloride	0.774	0.665	14.1	91	0.00
21	T	trans-1,2-Dichloroethene	0.644	0.645	-0.2	96	0.00
22	T	Diisopropyl ether	1.860	1.859	0.1	92	0.00
23	T	Vinyl Acetate	1.222	1.312	-7.4	95	0.00
24	P	1,1-Dichloroethane	1.189	1.171	1.5	95	0.00
25	T	2-Butanone	0.238	0.258	-8.4	95	0.00
26	T	2,2-Dichloropropane	0.596	0.596	0.0	96	0.00
27	T	cis-1,2-Dichloroethene	0.752	0.779	-3.6	98	0.00
28	T	Bromochloromethane	0.541	0.510	5.7	88	0.00
29	T	Tetrahydrofuran	0.157	0.164	-4.5	90	0.00
30	C	Chloroform	1.260	1.337	-6.1#	101	0.00
31	T	Cyclohexane	1.031	0.928	10.0	90	0.00
32	T	1,1,1-Trichloroethane	0.915	0.941	-2.8	101	0.00
33	S	1,2-Dichloroethane-d4	0.723	0.728	-0.7	95	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.323	0.346	-7.1	96	0.00
36	T	1,1-Dichloropropene	0.455	0.483	-6.2	94	0.00
37	T	Ethyl Acetate	0.268	0.312	-16.4	96	0.00
38	T	Carbon Tetrachloride	0.439	0.512	-16.6	104	0.00
39	T	Methylcyclohexane	0.555	0.577	-4.0	91	0.00
40	TM	Benzene	1.415	1.526	-7.8	94	0.00
41	T	Methacrylonitrile	0.152	0.166	-9.2	90	0.00
42	TM	1,2-Dichloroethane	0.453	0.524	-15.7	102	0.00
43	T	Isopropyl Acetate	0.493	0.564	-14.4	95	0.00
44	TM	Trichloroethene	0.337	0.379	-12.5	101	0.00
45	C	1,2-Dichloropropane	0.342	0.367	-7.3#	95	0.00
46	T	Dibromomethane	0.221	0.260	-17.6	103	0.00
47	T	Bromodichloromethane	0.509	0.582	-14.3	99	0.00
48	T	Methyl methacrylate	0.238	0.265	-11.3	90	0.00

Sample Results: **VW032080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.003	0.0	90	0.00
50	S	Toluene-d8	1.195	1.227	-2.7	89	0.00
51	T	4-Methyl-2-Pentanone	0.279	0.333	-19.4	97	0.00
52	CM	Toluene	0.892	0.978	-9.6#	95	0.00
53	T	t-1,3-Dichloropropene	0.476	0.531	-11.6	94	0.00
54	T	cis-1,3-Dichloropropene	0.541	0.595	-10.0	93	0.00
55	T	1,1,2-Trichloroethane	0.293	0.332	-13.3	99	0.00
56	T	Ethyl methacrylate	0.392	0.444	-13.3	92	0.00
57	T	1,3-Dichloropropane	0.511	0.560	-9.6	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.217	0.222	-2.3	84	0.00
59	T	2-Hexanone	0.193	0.234	-21.2	96	0.00
60	T	Dibromochloromethane	0.335	0.404	-20.6	105	0.00
61	T	1,2-Dibromoethane	0.285	0.331	-16.1	101	0.00
62	S	4-Bromofluorobenzene	0.440	0.443	-0.7	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
64	T	Tetrachloroethene	0.289	0.334	-15.6	107	0.00
65	PM	Chlorobenzene	1.088	1.216	-11.8	102	0.00
66	T	1,1,1,2-Tetrachloroethane	0.340	0.396	-16.5	104	0.00
67	C	Ethyl Benzene	1.843	2.010	-9.1#	96	0.00
68	T	m/p-Xylenes	0.711	0.801	-12.7	98	0.00
69	T	o-Xylene	0.657	0.764	-16.3	100	0.00
70	T	Styrene	1.168	1.351	-15.7	99	0.00
71	P	Bromoform	0.194	0.248	-27.8#	107	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.494	3.656	-4.6	98	0.00
74	T	N-amyl acetate	1.003	1.115	-11.2	98	0.00
75	P	1,1,2,2-Tetrachloroethane	0.830	0.866	-4.3	97	0.00
76	T	1,2,3-Trichloropropane	0.679	0.638	6.0	81	0.00
77	T	Bromobenzene	0.835	0.897	-7.4	100	0.00
78	T	n-propylbenzene	4.302	4.595	-6.8	100	0.00
79	T	2-Chlorotoluene	2.655	2.717	-2.3	97	0.00
80	T	1,3,5-Trimethylbenzene	2.967	3.203	-8.0	101	0.00
81	T	trans-1,4-Dichloro-2-butene	0.262	0.264	-0.8	89	0.00
82	T	4-Chlorotoluene	2.821	2.918	-3.4	98	0.00
83	T	tert-Butylbenzene	2.462	2.704	-9.8	102	0.00
84	T	1,2,4-Trimethylbenzene	3.020	3.205	-6.1	98	0.00
85	T	sec-Butylbenzene	3.722	3.848	-3.4	97	0.00
86	T	p-Isopropyltoluene	3.103	3.321	-7.0	98	0.00
87	T	1,3-Dichlorobenzene	1.661	1.866	-12.3	104	0.00
88	T	1,4-Dichlorobenzene	1.678	1.832	-9.2	107	0.00
89	T	n-Butylbenzene	3.015	3.233	-7.2	99	0.00
90	T	Hexachloroethane	0.568	0.586	-3.2	101	0.00
91	T	1,2-Dichlorobenzene	1.504	1.699	-13.0	109	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.147	0.155	-5.4	95	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.991	-10.1	105	0.00
94	T	Hexachlorobutadiene	0.402	0.466	-15.9	118	0.00
95	T	Naphthalene	2.205	2.543	-15.3	102	0.00

Sample Results: **VW032080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.819	0.932	-13.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VW032080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	49.784	0.4	99	0.00
3	P	Chloromethane	50.000	44.563	10.9	92	0.00
4	C	Vinyl Chloride	50.000	47.634	4.7#	98	0.00
5	T	Bromomethane	50.000	53.858	-7.7	107	0.00
6	T	Chloroethane	50.000	51.208	-2.4	101	0.00
7	T	Trichlorofluoromethane	50.000	57.752	-15.5	109	0.00
8	T	Diethyl Ether	50.000	54.020	-8.0	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.292	-10.6	110	0.01
10	T	Methyl Iodide	50.000	51.502	-3.0	101	0.00
11	T	Tert butyl alcohol	250.000	241.851	3.3	84	0.00
12	CM	1,1-Dichloroethene	50.000	54.052	-8.1#	107	0.00
13	T	Acrolein	250.000	146.845	41.3#	58	0.00
14	T	Allyl chloride	50.000	45.111	9.8	87	0.00
15	T	Acrylonitrile	250.000	253.370	-1.3	90	0.00
16	T	Acetone	250.000	295.783	-18.3	114	0.00
17	T	Carbon Disulfide	50.000	45.000	10.0	88	0.00
18	T	Methyl Acetate	50.000	50.516	-1.0	90	0.00
19	T	Methyl tert-butyl Ether	50.000	50.329	-0.7	91	0.00
20	T	Methylene Chloride	50.000	42.955	14.1	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.080	-0.2	96	0.00
22	T	Diisopropyl ether	50.000	49.971	0.1	92	0.00
23	T	Vinyl Acetate	250.000	268.547	-7.4	95	0.00
24	P	1,1-Dichloroethane	50.000	49.263	1.5	95	0.00
25	T	2-Butanone	250.000	271.199	-8.5	95	0.00
26	T	2,2-Dichloropropane	50.000	49.956	0.1	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.787	-3.6	98	0.00
28	T	Bromochloromethane	50.000	47.126	5.7	88	0.00
29	T	Tetrahydrofuran	250.000	261.846	-4.7	90	0.00
30	C	Chloroform	50.000	53.058	-6.1#	101	0.00
31	T	Cyclohexane	50.000	45.011	10.0	90	0.00
32	T	1,1,1-Trichloroethane	50.000	51.378	-2.8	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.347	-0.7	95	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	53.483	-7.0	96	0.00
36	T	1,1-Dichloropropene	50.000	53.016	-6.0	94	0.00
37	T	Ethyl Acetate	50.000	58.145	-16.3	96	0.00
38	T	Carbon Tetrachloride	50.000	58.281	-16.6	104	0.00
39	T	Methylcyclohexane	50.000	52.018	-4.0	91	0.00
40	TM	Benzene	50.000	53.892	-7.8	94	0.00
41	T	Methacrylonitrile	50.000	54.674	-9.3	90	0.00
42	TM	1,2-Dichloroethane	50.000	57.820	-15.6	102	0.00
43	T	Isopropyl Acetate	50.000	57.148	-14.3	95	0.00
44	TM	Trichloroethene	50.000	56.237	-12.5	101	0.00
45	C	1,2-Dichloropropane	50.000	53.705	-7.4#	95	0.00
46	T	Dibromomethane	50.000	58.920	-17.8	103	0.00
47	T	Bromodichloromethane	50.000	57.226	-14.5	99	0.00
48	T	Methyl methacrylate	50.000	55.521	-11.0	90	0.00

Sample Results: **VW032080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1132.752	-13.3	90	0.00
50	S	Toluene-d8	50.000	51.355	-2.7	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	298.600	-19.4	97	0.00
52	CM	Toluene	50.000	54.839	-9.7#	95	0.00
53	T	t-1,3-Dichloropropene	50.000	55.768	-11.5	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.997	-10.0	93	0.00
55	T	1,1,2-Trichloroethane	50.000	56.613	-13.2	99	0.00
56	T	Ethyl methacrylate	50.000	56.621	-13.2	92	0.00
57	T	1,3-Dichloropropane	50.000	54.740	-9.5	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	256.070	-2.4	84	0.00
59	T	2-Hexanone	250.000	303.226	-21.3	96	0.00
60	T	Dibromochloromethane	50.000	60.364	-20.7	105	0.00
61	T	1,2-Dibromoethane	50.000	58.108	-16.2	101	0.00
62	S	4-Bromofluorobenzene	50.000	50.275	-0.5	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	89	0.00
64	T	Tetrachloroethene	50.000	57.783	-15.6	107	0.00
65	PM	Chlorobenzene	50.000	55.882	-11.8	102	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	58.241	-16.5	104	0.00
67	C	Ethyl Benzene	50.000	54.505	-9.0#	96	0.00
68	T	m/p-Xylenes	100.000	112.646	-12.6	98	0.00
69	T	o-Xylene	50.000	58.137	-16.3	100	0.00
70	T	Styrene	50.000	57.835	-15.7	99	0.00
71	P	Bromoform	50.000	63.831	-27.7#	107	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	52.307	-4.6	98	0.00
74	T	N-amyl acetate	50.000	55.601	-11.2	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.197	-4.4	97	0.00
76	T	1,2,3-Trichloropropane	50.000	47.043	5.9	81	0.00
77	T	Bromobenzene	50.000	53.753	-7.5	100	0.00
78	T	n-propylbenzene	50.000	53.406	-6.8	100	0.00
79	T	2-Chlorotoluene	50.000	51.172	-2.3	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.983	-8.0	101	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.402	-0.8	89	0.00
82	T	4-Chlorotoluene	50.000	51.725	-3.5	98	0.00
83	T	tert-Butylbenzene	50.000	54.905	-9.8	102	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.062	-6.1	98	0.00
85	T	sec-Butylbenzene	50.000	51.695	-3.4	97	0.00
86	T	p-Isopropyltoluene	50.000	53.502	-7.0	98	0.00
87	T	1,3-Dichlorobenzene	50.000	56.169	-12.3	104	0.00
88	T	1,4-Dichlorobenzene	50.000	54.595	-9.2	107	0.00
89	T	n-Butylbenzene	50.000	53.618	-7.2	99	0.00
90	T	Hexachloroethane	50.000	51.649	-3.3	101	0.00
91	T	1,2-Dichlorobenzene	50.000	56.464	-12.9	109	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.473	-4.9	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	55.052	-10.1	105	0.00
94	T	Hexachlorobutadiene	50.000	57.968	-15.9	118	0.00
95	T	Naphthalene	50.000	57.653	-15.3	102	0.00

Sample Results: **VW032080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	56.917	-13.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VW032105.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_W
Calibration Date/Time: 08/14/2025 19:32
Lab File ID: VW032105.D
Init. Calib. Date(s): 08/11/2025 08/11/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 08:25 11:08
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.358	0.320		-10.61	50
Chloromethane	0.482	0.409	0.1	-15.15	50
Vinyl Chloride	0.583	0.500		-14.24	50
Bromomethane	0.437	0.428		-2.06	50
Chloroethane	0.386	0.359		-6.99	50
Trichlorofluoromethane	0.467	0.483		3.43	50
1,1,2-Trichlorotrifluoroethane	0.551	0.543		-1.45	50
1,1-Dichloroethene	0.606	0.595		-1.82	50
Acetone	0.167	0.155		-7.19	50
Carbon Disulfide	1.628	1.296		-20.39	50
Methyl tert-butyl Ether	1.068	1.004		-5.99	50
Methyl Acetate	0.530	0.562		6.04	50
Methylene Chloride	0.774	0.649		-16.15	50
trans-1,2-Dichloroethene	0.644	0.594		-7.76	50
1,1-Dichloroethane	1.189	1.090	0.1	-8.33	50
Cyclohexane	1.031	0.799		-22.5	50
2-Butanone	0.238	0.223		-6.3	50
Carbon Tetrachloride	0.439	0.449		2.28	50
cis-1,2-Dichloroethene	0.752	0.737		-2	50
Bromochloromethane	0.541	0.553		2.22	50
Chloroform	1.260	1.273		1.03	50
1,1,1-Trichloroethane	0.915	0.845		-7.65	50
Methylcyclohexane	0.555	0.498		-10.27	50
Benzene	1.415	1.412		-0.21	50
1,2-Dichloroethane	0.453	0.496		9.49	50
Trichloroethene	0.337	0.343		1.78	50
1,2-Dichloropropane	0.342	0.340		-0.58	50
Bromodichloromethane	0.509	0.543		6.68	50
4-Methyl-2-Pentanone	0.279	0.300		7.53	50
Toluene	0.892	0.913		2.35	50
t-1,3-Dichloropropene	0.476	0.465		-2.31	50
cis-1,3-Dichloropropene	0.541	0.523		-3.33	50
1,1,2-Trichloroethane	0.293	0.307		4.78	50
2-Hexanone	0.193	0.209		8.29	50
Dibromochloromethane	0.335	0.360		7.46	50
1,2-Dibromoethane	0.285	0.303		6.32	50
Tetrachloroethene	0.289	0.328		13.49	50
Chlorobenzene	1.088	1.070	0.3	-1.65	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VW032105.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2820
Instrument ID:	MSVOA_W	Calibration Date/Time:	08/14/2025 19:32
Lab File ID:	VW032105.D	Init. Calib. Date(s):	08/11/2025 08/11/2025
Heated Purge: (Y/N)	Y	Init. Calib. Time(s):	08:25 11:08

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	1.846		0.16	50
m/p-Xylenes	0.711	0.699		-1.69	50
o-Xylene	0.657	0.665		1.22	50
Styrene	1.168	1.204		3.08	50
Bromoform	0.194	0.214	0.1	10.31	50
Isopropylbenzene	3.494	3.253		-6.9	50
1,1,2,2-Tetrachloroethane	0.830	0.789	0.3	-4.94	50
1,3-Dichlorobenzene	1.661	1.628		-1.99	50
1,4-Dichlorobenzene	1.678	1.633		-2.68	50
1,2-Dichlorobenzene	1.504	1.469		-2.33	50
1,2-Dibromo-3-Chloropropane	0.147	0.132		-10.2	50
1,2,4-Trichlorobenzene	0.900	0.879		-2.33	50
1,2,3-Trichlorobenzene	0.819	0.820		0.12	50
1,2-Dichloroethane-d4	0.723	0.767		6.09	50
Dibromofluoromethane	0.323	0.350		8.36	50
Toluene-d8	1.195	1.268		6.11	50
4-Bromofluorobenzene	0.440	0.446		1.36	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	191295	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	340189	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	325940	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	166040	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	146710	53.028	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 106.060%			
35) Dibromofluoromethane	7.904	113	119167	54.222	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 108.440%			
50) Toluene-d8	10.331	98	431442	53.076	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 106.160%			
62) 4-Bromofluorobenzene	12.617	95	151827	50.684	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	61255	44.771	ug/l	96
3) Chloromethane	2.259	50	78292	42.481	ug/l	99
4) Vinyl Chloride	2.405	62	95665	42.913	ug/l	93
5) Bromomethane	2.826	94	81791	48.904	ug/l	96
6) Chloroethane	2.972	64	68704	46.574	ug/l	100
7) Trichlorofluoromethane	3.301	101	92479	51.784	ug/l	97
8) Diethyl Ether	3.722	74	75008	51.265	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	103933	49.330	ug/l	98
10) Methyl Iodide	4.313	142	144087	48.234	ug/l	97
11) Tert butyl alcohol	5.228	59	36969	206.356	ug/l	96
12) 1,1-Dichloroethene	4.082	96	113815	49.059	ug/l	97
13) Acrolein	3.929	56	35987	126.071	ug/l	97
14) Allyl chloride	4.703	41	134232	39.755	ug/l #	87
15) Acrylonitrile	5.405	53	159692	229.148	ug/l	99
16) Acetone	4.161	43	148614	232.009	ug/l	97
17) Carbon Disulfide	4.423	76	247936	39.816	ug/l	99
18) Methyl Acetate	4.710	43	107582	53.076	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	192043	46.982	ug/l	94
20) Methylene Chloride	4.953	84	124065	41.890	ug/l	96
21) trans-1,2-Dichloroethene	5.453	96	113537	46.116	ug/l	97
22) Diisopropyl ether	6.343	45	335676	47.159	ug/l	96
23) Vinyl Acetate	6.282	43	1070647	229.096	ug/l	97
24) 1,1-Dichloroethane	6.246	63	208500	45.846	ug/l	99
25) 2-Butanone	7.197	43	213535	234.553	ug/l	96
26) 2,2-Dichloropropane	7.191	77	89156	39.077	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	141078	49.023	ug/l	95
28) Bromochloromethane	7.532	49	105860	51.150	ug/l	98
29) Tetrahydrofuran	7.557	42	143851	239.596	ug/l	100
30) Chloroform	7.691	83	243601	50.525	ug/l	95
31) Cyclohexane	7.971	56	152916	38.784	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	161712	46.176	ug/l	98
36) 1,1-Dichloropropene	8.093	75	148951	48.076	ug/l	99
37) Ethyl Acetate	7.276	43	92875	50.898	ug/l	97
38) Carbon Tetrachloride	8.081	117	152872	51.129	ug/l	96
39) Methylcyclohexane	9.343	83	169525	44.891	ug/l	94
40) Benzene	8.337	78	480231	49.865	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	50217	48.528	ug/l		91
42) 1,2-Dichloroethane	8.410	62	168647	54.726	ug/l		98
43) Isopropyl Acetate	8.434	43	169753	50.564	ug/l		99
44) Trichloroethene	9.105	130	116771	50.915	ug/l		96
45) 1,2-Dichloropropane	9.373	63	115794	49.769	ug/l		97
46) Dibromomethane	9.465	93	79744	53.105	ug/l		96
47) Bromodichloromethane	9.654	83	184629	53.359	ug/l		95
48) Methyl methacrylate	9.440	41	82474	50.886	ug/l	#	90
49) 1,4-Dioxane	9.459	88	20213	1041.083	ug/l		93
51) 4-Methyl-2-Pentanone	10.215	43	510331	269.316	ug/l		96
52) Toluene	10.391	92	310694	51.219	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	158355	48.849	ug/l		100
54) cis-1,3-Dichloropropene	10.081	75	177874	48.366	ug/l		91
55) 1,1,2-Trichloroethane	10.788	97	104590	52.415	ug/l		96
56) Ethyl methacrylate	10.648	69	138833	51.993	ug/l	#	92
57) 1,3-Dichloropropane	10.934	76	176713	50.807	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	400276	271.010	ug/l		100
59) 2-Hexanone	10.971	43	354969	270.484	ug/l		96
60) Dibromochloromethane	11.129	129	122381	53.691	ug/l		99
61) 1,2-Dibromoethane	11.233	107	102979	53.107	ug/l		99
64) Tetrachloroethene	10.861	164	107005	56.838	ug/l		92
65) Chlorobenzene	11.660	112	348750	49.157	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	118751	53.648	ug/l		96
67) Ethyl Benzene	11.733	91	601685	50.069	ug/l		96
68) m/p-Xylenes	11.836	106	455888	98.314	ug/l		98
69) o-Xylene	12.166	106	216903	50.609	ug/l		96
70) Styrene	12.178	104	392538	51.563	ug/l		98
71) Bromoform	12.355	173	69699	55.047	ug/l	#	95
73) Isopropylbenzene	12.464	105	540086	46.544	ug/l		98
74) N-amyl acetate	12.269	43	156756	47.086	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.708	83	130940	47.526	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	95304m	42.291	ug/l		
77) Bromobenzene	12.745	156	132649	47.862	ug/l		94
78) n-propylbenzene	12.800	91	674775	47.233	ug/l		100
79) 2-Chlorotoluene	12.891	91	405968	46.044	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	460118	46.706	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	34614	39.765	ug/l		90
82) 4-Chlorotoluene	12.989	91	431266	46.038	ug/l		98
83) tert-Butylbenzene	13.202	119	401156	49.066	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	475052	47.371	ug/l		99
85) sec-Butylbenzene	13.379	105	568054	45.955	ug/l		99
86) p-Isopropyltoluene	13.495	119	472729	45.874	ug/l		97
87) 1,3-Dichlorobenzene	13.495	146	270340	49.021	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	271213	48.665	ug/l		98
89) n-Butylbenzene	13.818	91	466468	46.594	ug/l		99
90) Hexachloroethane	14.086	117	87184	46.262	ug/l		96
91) 1,2-Dichlorobenzene	13.866	146	243969	48.837	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.482	75	21865	44.641	ug/l		98
93) 1,2,4-Trichlorobenzene	15.122	180	146018	48.861	ug/l		96
94) Hexachlorobutadiene	15.226	225	67884	50.817	ug/l		92
95) Naphthalene	15.354	128	345629	47.200	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	136101	50.054	ug/l		97

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Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
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ClientSampleId :
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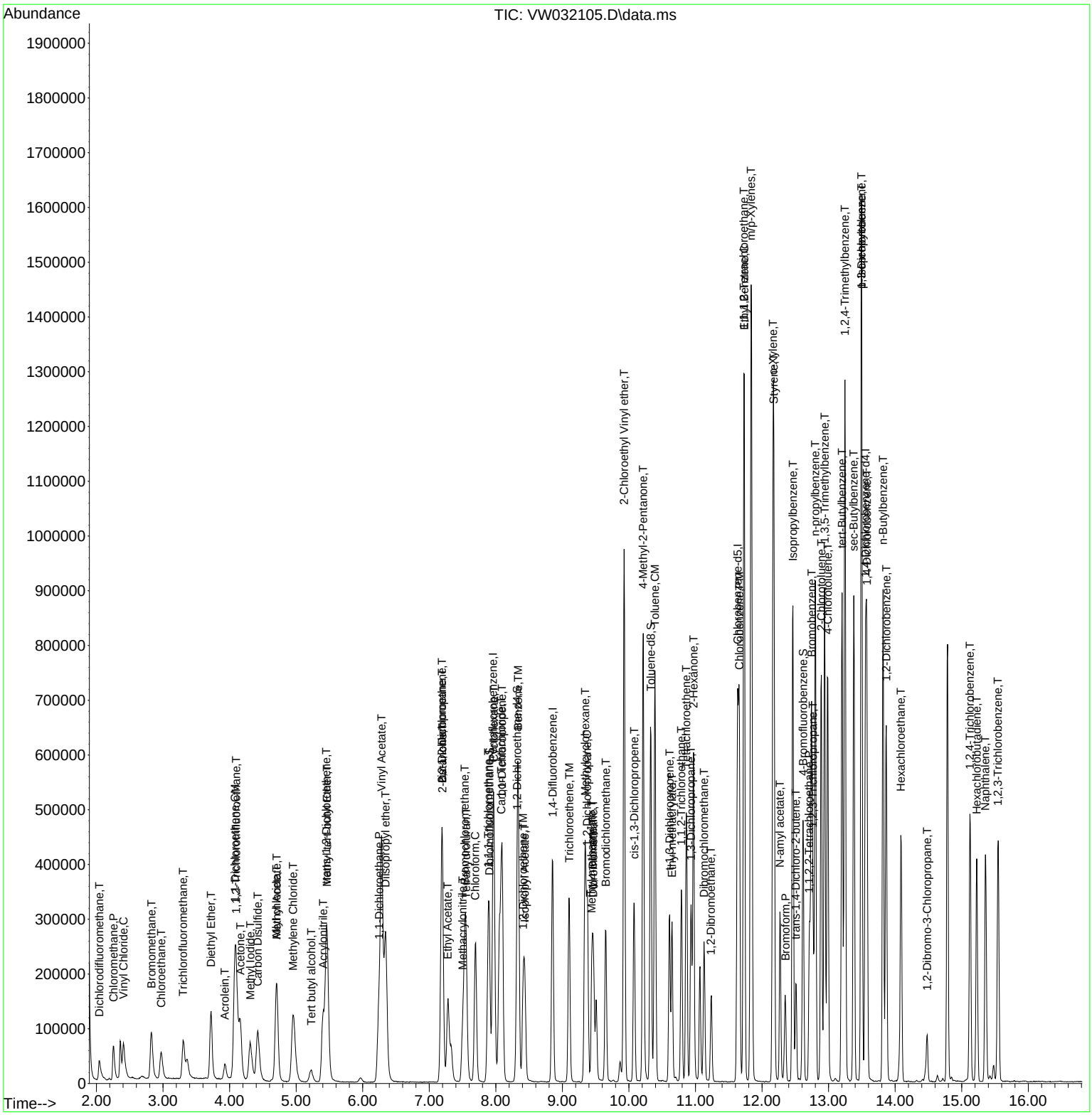

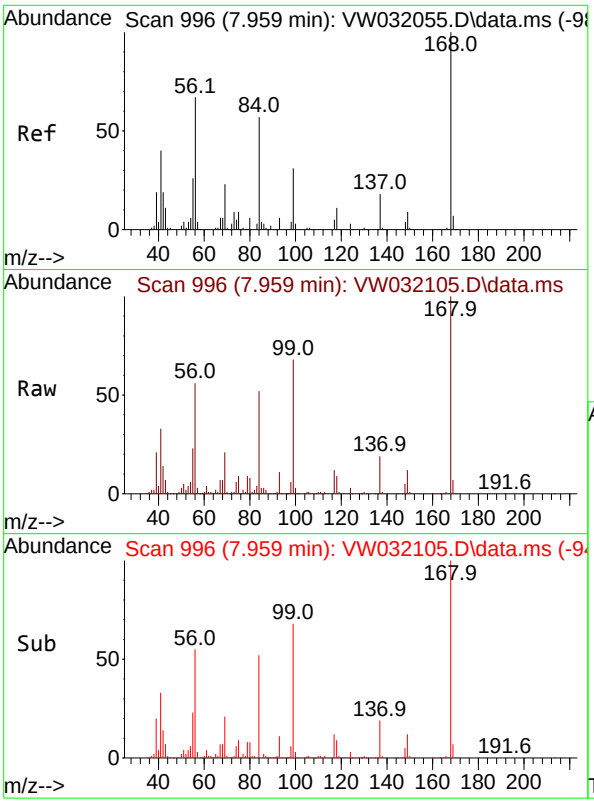

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:168 Resp: 19129

Ion	Ratio	Lower	Upper
168	100		
99	68.3	56.0	84.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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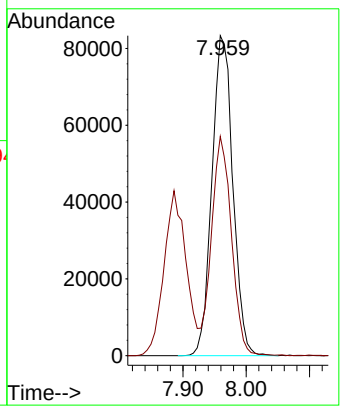
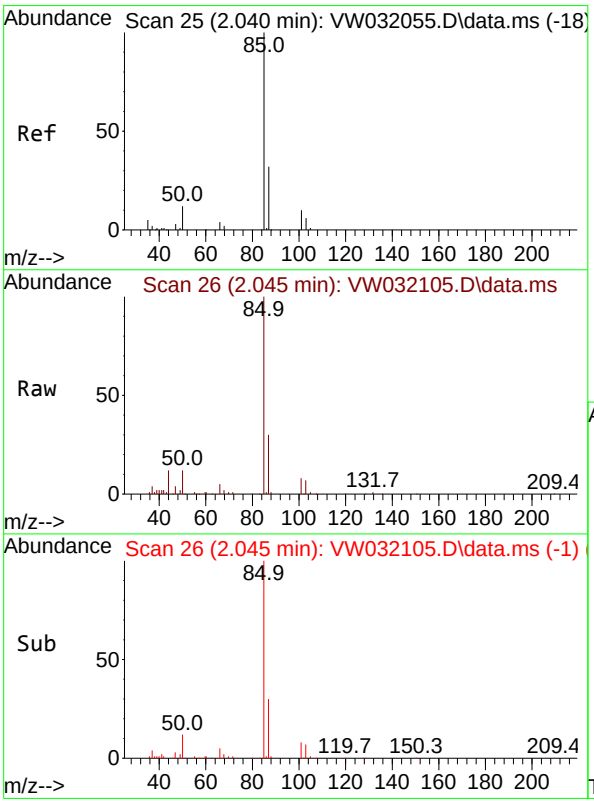
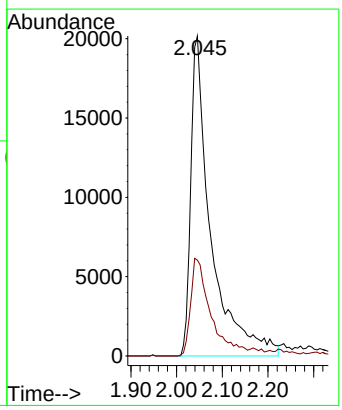


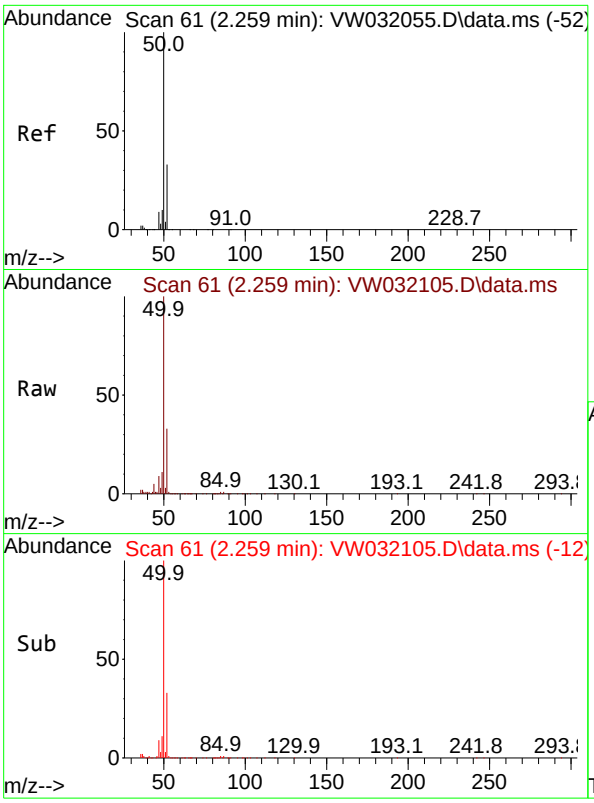


#2
Dichlorodifluoromethane
Concen: 44.771 ug/l
RT: 2.045 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 85 Resp: 61255

Ion	Ratio	Lower	Upper
85	100		
87	29.9	16.2	48.6

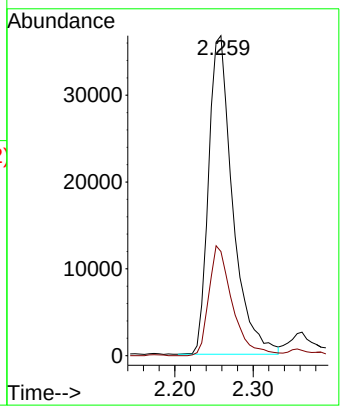




#3
Chloromethane
Concen: 42.481 ug/l
RT: 2.259 min Scan# 6
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 50 Resp: 7829

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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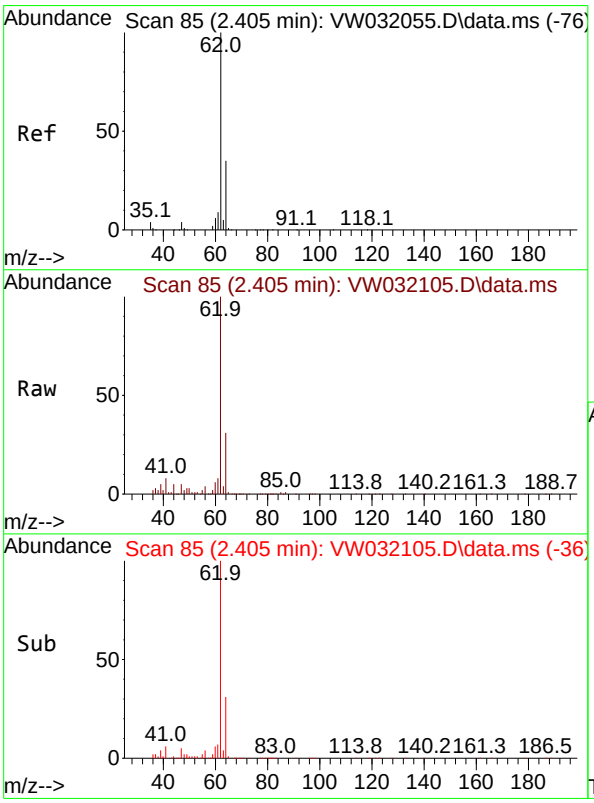
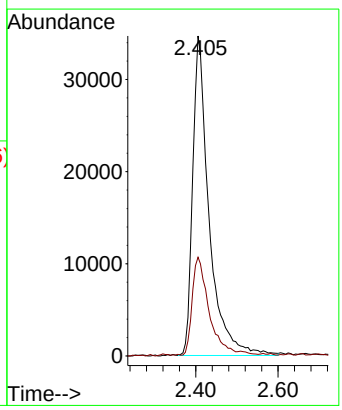
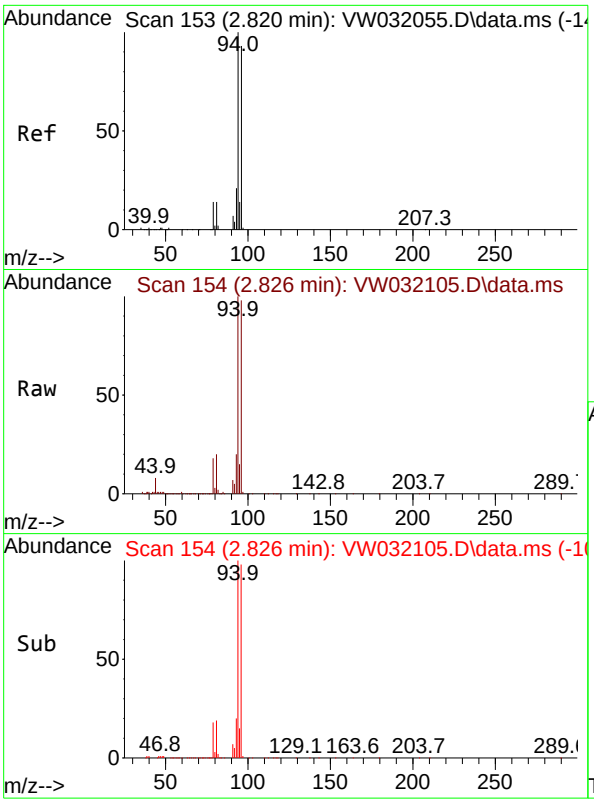


#4
Vinyl Chloride
Concen: 42.913 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 62 Resp: 95665

Ion	Ratio	Lower	Upper
62	100		
64	30.6	27.8	41.6

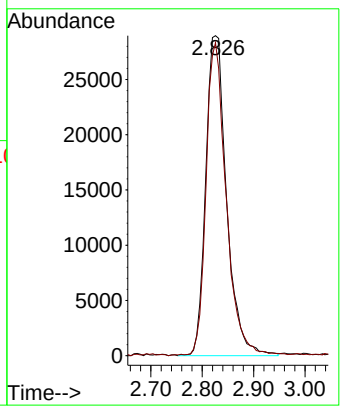




#5
Bromomethane
Concen: 48.904 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 94 Resp: 8179

Ion	Ratio	Lower	Upper
94	100		
96	97.6	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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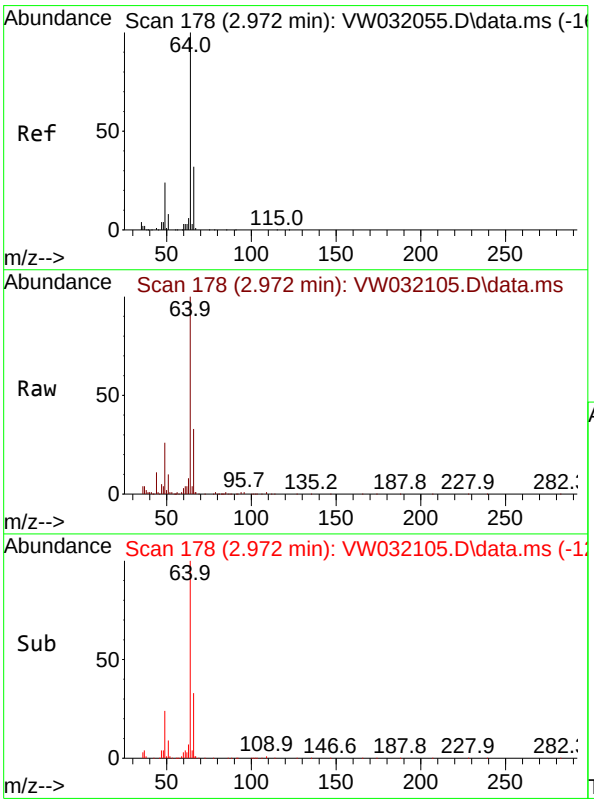
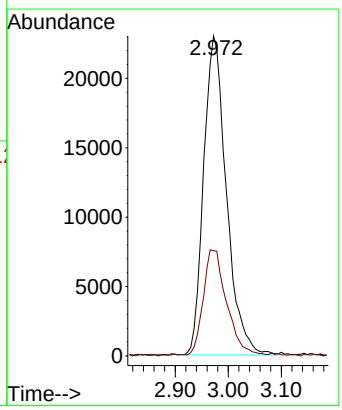
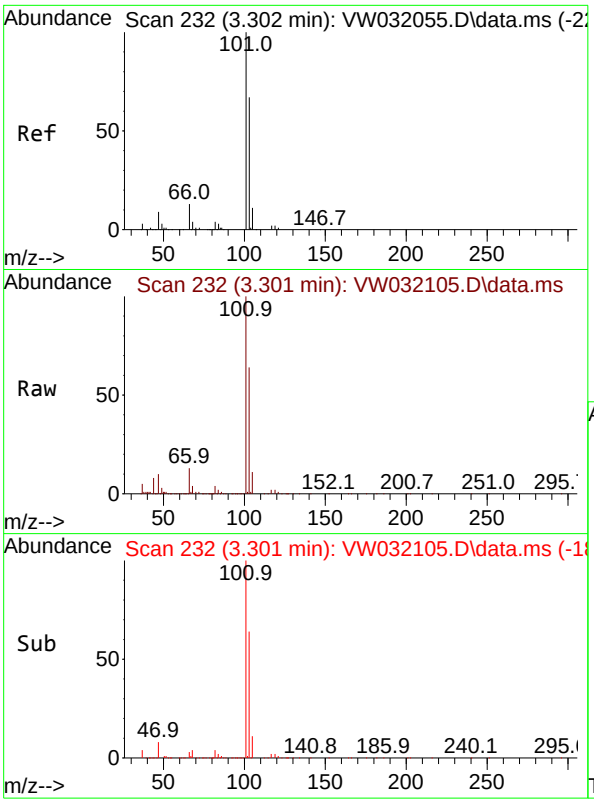


#6
Chloroethane
Concen: 46.574 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 64 Resp: 68704

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.0	39.0

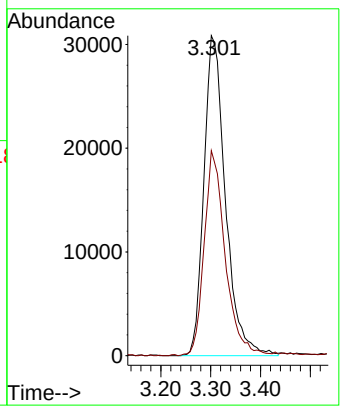




#7
Trichlorofluoromethane
Concen: 51.784 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:101 Resp: 9247

Ion	Ratio	Lower	Upper
101	100		
103	64.0	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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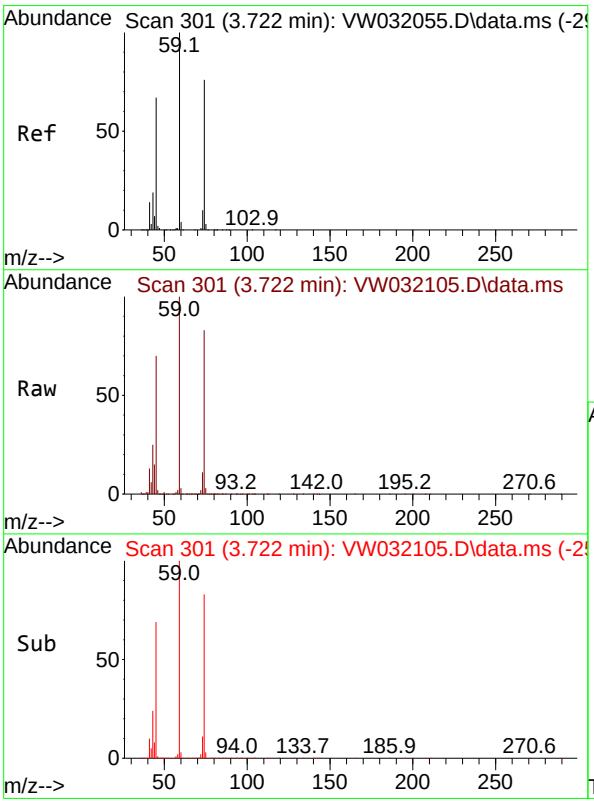
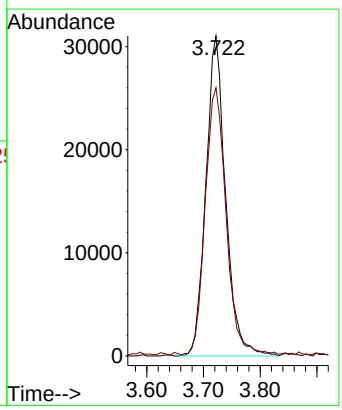
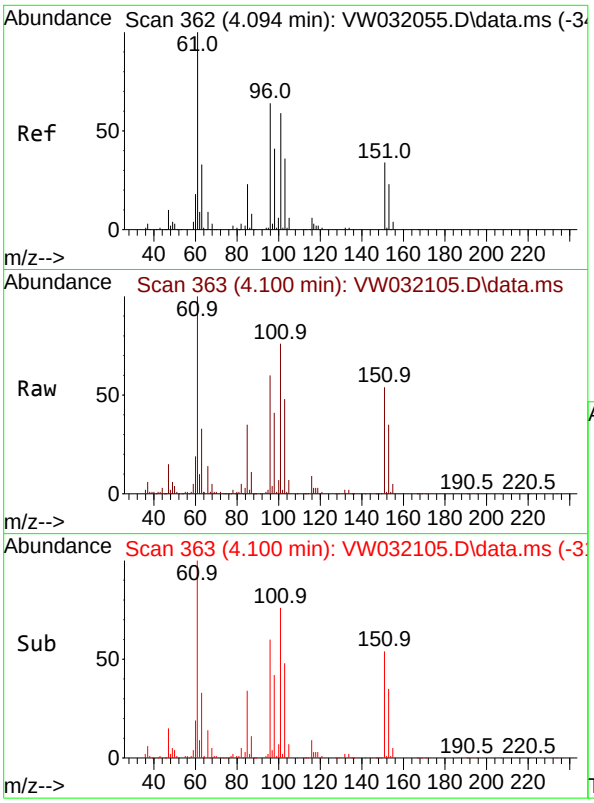


#8
Diethyl Ether
Concen: 51.265 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 74 Resp: 75008

Ion	Ratio	Lower	Upper
74	100		
45	88.0	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.330 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:101 Resp: 10393

Ion	Ratio	Lower	Upper
101	100		
85	45.2	34.9	52.3
151	72.2	56.2	84.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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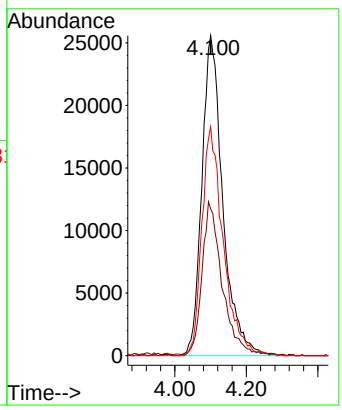
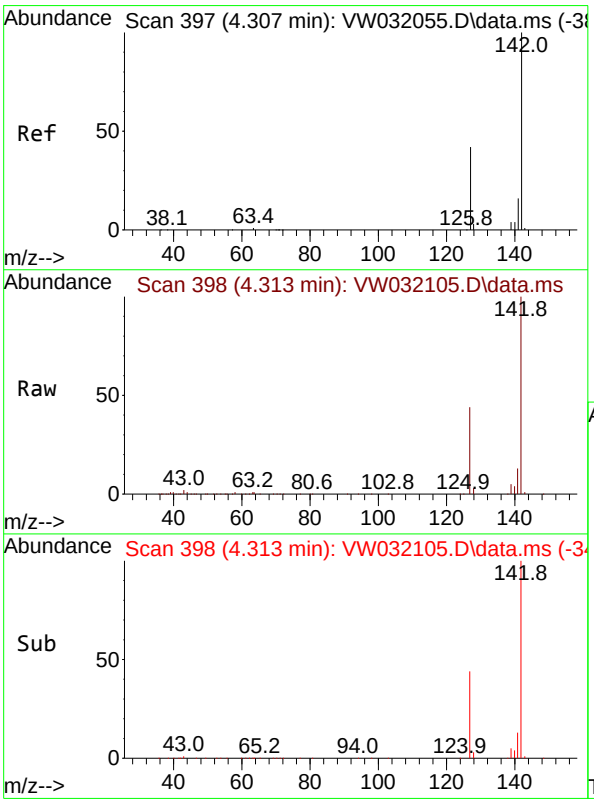
Supervised By :Mahesh Dadoda 08/19/2025

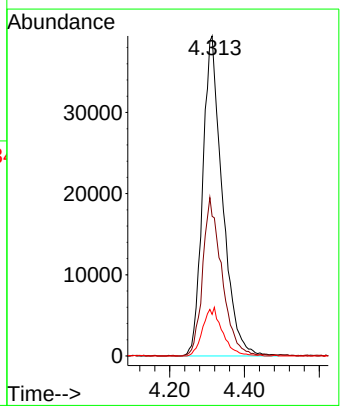


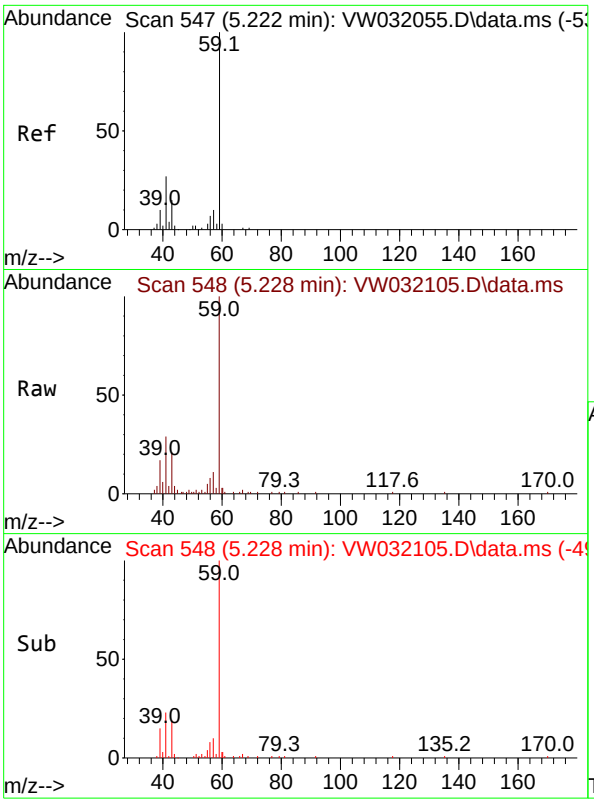


#10
Methyl Iodide
Concen: 48.234 ug/l
RT: 4.313 min Scan# 398
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:142 Resp: 144087

Ion	Ratio	Lower	Upper
142	100		
127	48.3	36.6	55.0
141	15.2	12.1	18.1

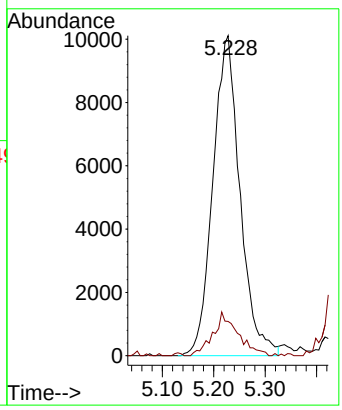




#11
Tert butyl alcohol
Concen: 206.356 ug/l
RT: 5.228 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 59 Resp: 3696

Ion	Ratio	Lower	Upper
59	100		
57	12.5	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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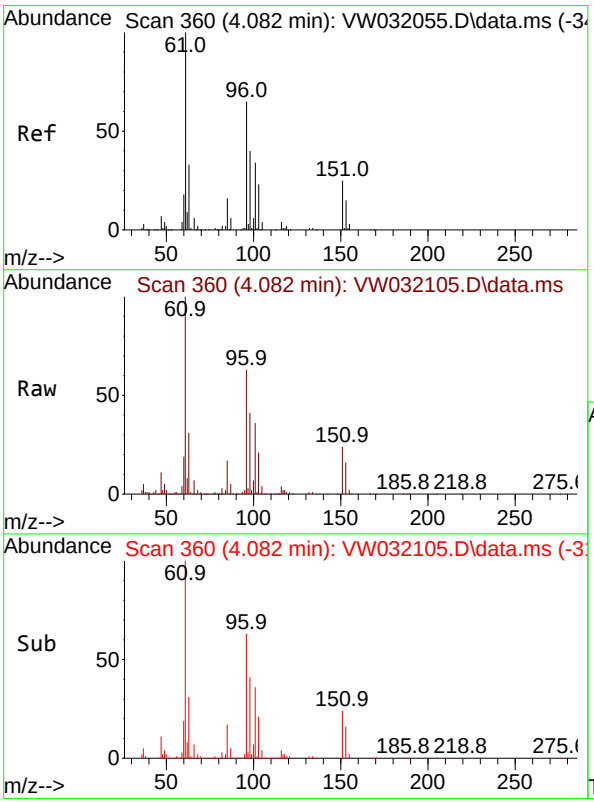
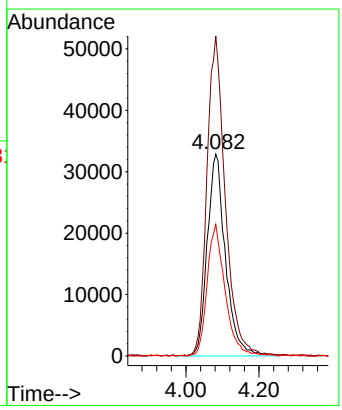
Supervised By :Mahesh Dadoda 08/19/2025

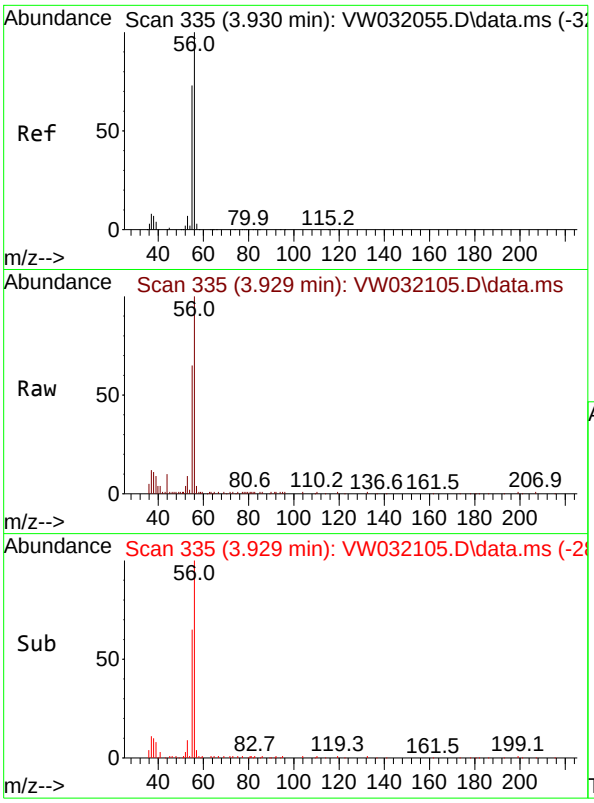


#12
1,1-Dichloroethene
Concen: 49.059 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 96 Resp: 113815

Ion	Ratio	Lower	Upper
96	100		
61	158.4	123.4	185.2
98	65.2	49.5	74.3

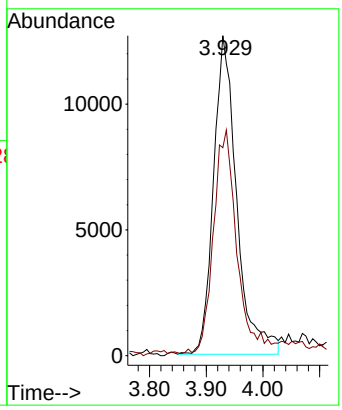




#13
Acrolein
Concen: 126.071 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 56 Resp: 3598

Ion	Ratio	Lower	Upper
56	100		
55	71.4	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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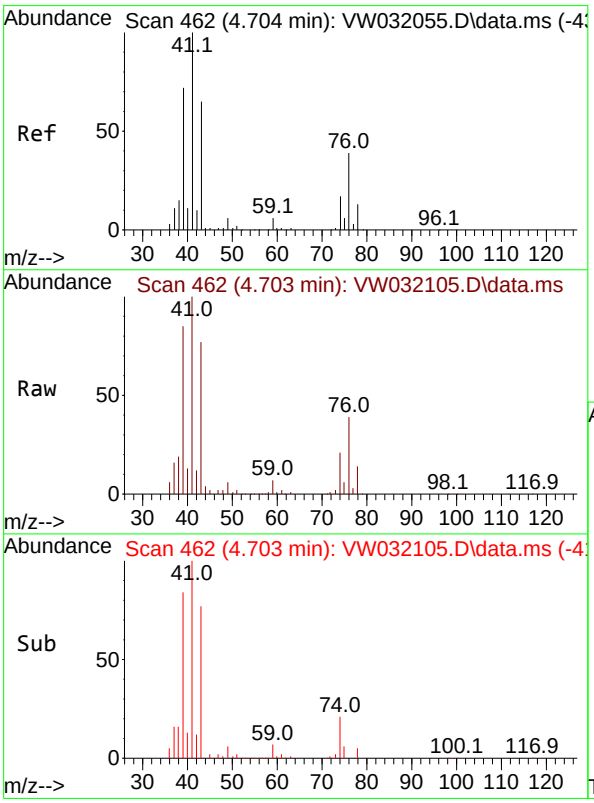
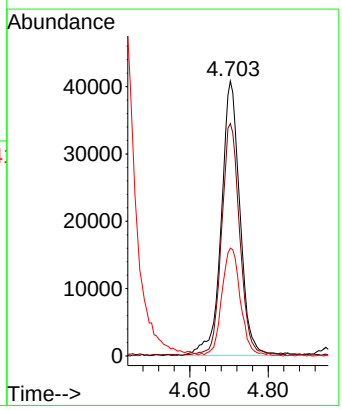
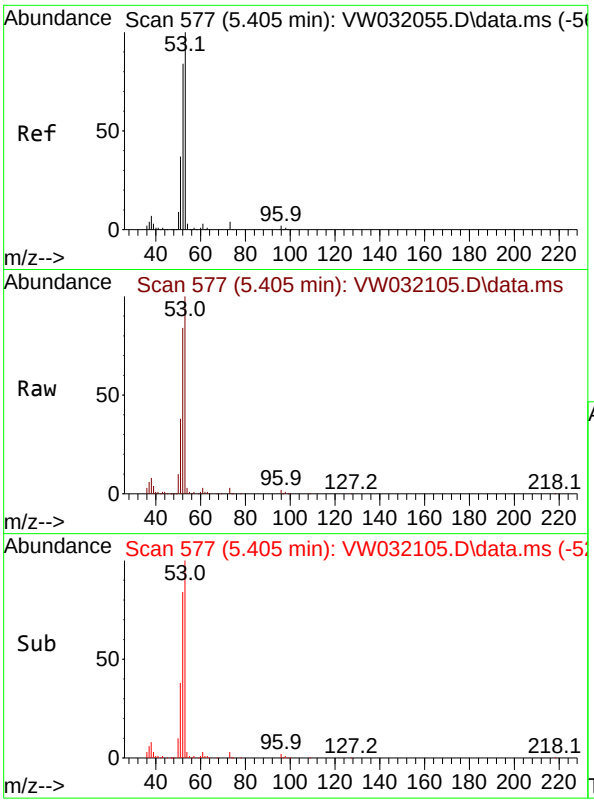


#14
Allyl chloride
Concen: 39.755 ug/l
RT: 4.703 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 41 Resp: 134232

Ion	Ratio	Lower	Upper
41	100		
39	82.9	54.5	81.7#
76	38.9	29.3	43.9

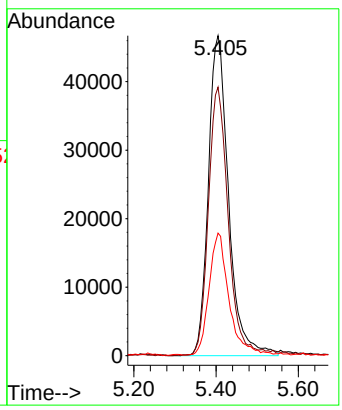




#15
Acrylonitrile
Concen: 229.148 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 53 Resp: 15969

Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.1	99.1
51	37.5	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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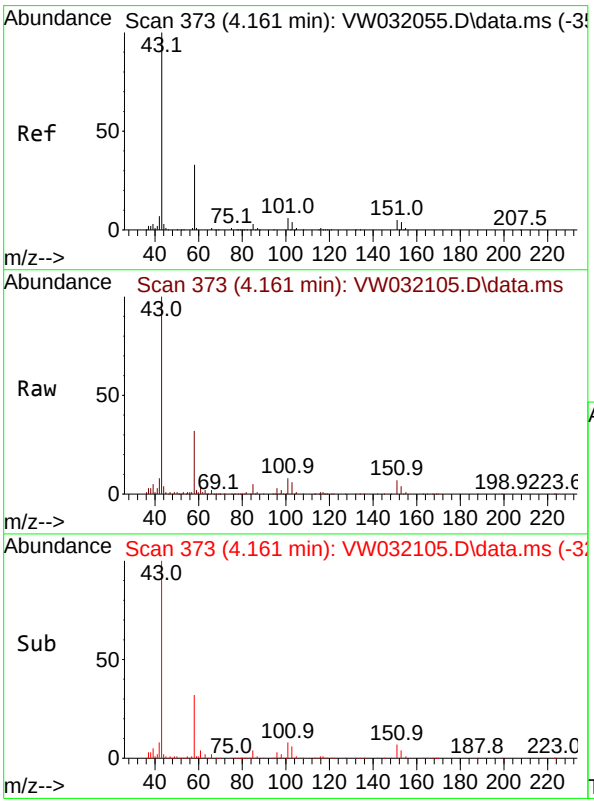
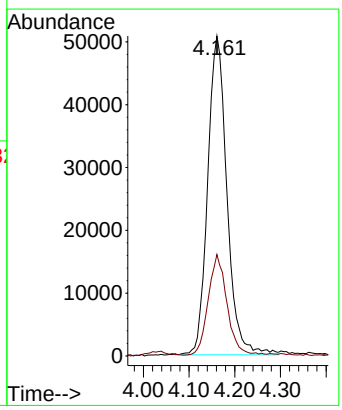
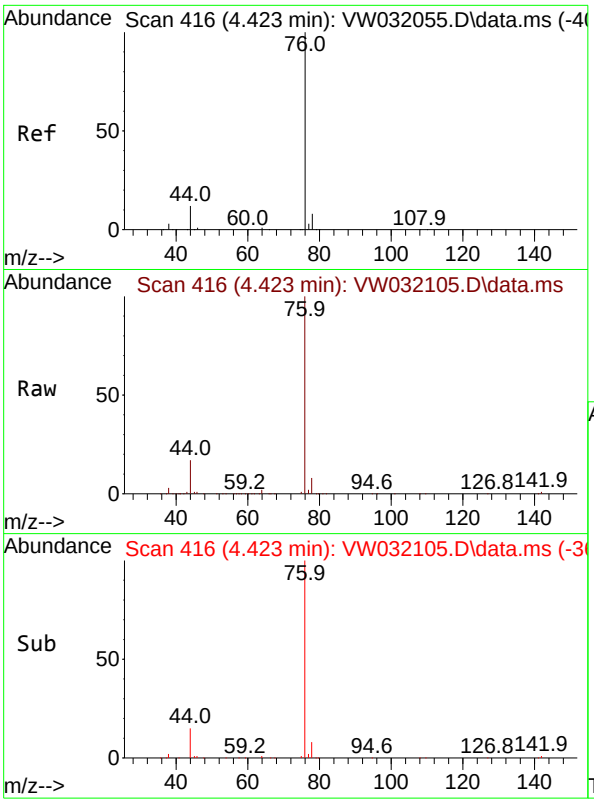


#16
Acetone
Concen: 232.009 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 148614

Ion	Ratio	Lower	Upper
43	100		
58	31.4	26.6	39.8

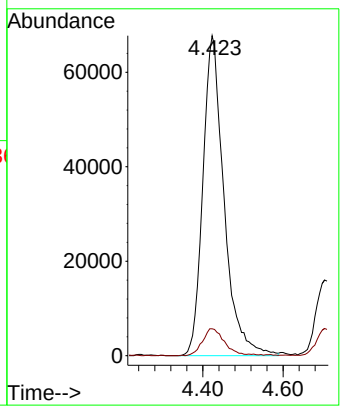




#17
Carbon Disulfide
Concen: 39.816 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 76 Resp: 24793

Ion	Ratio	Lower	Upper
76	100		
78	8.4	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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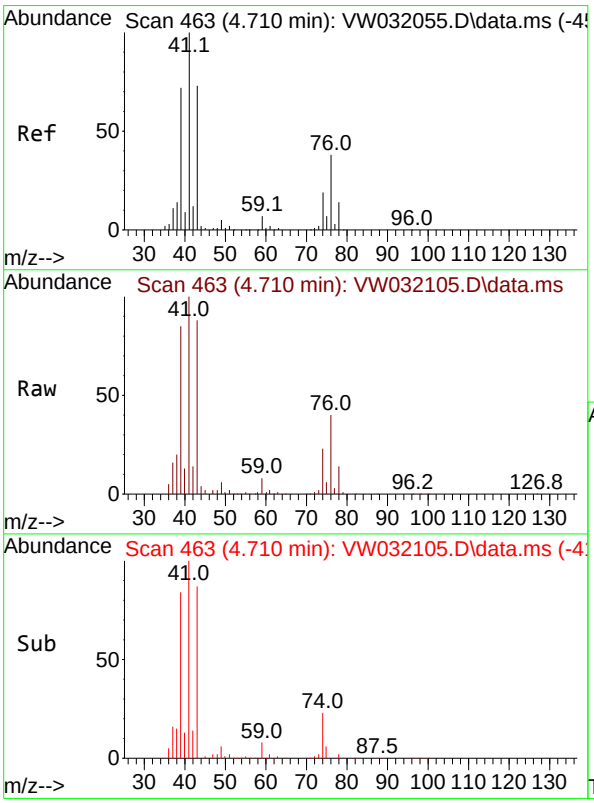
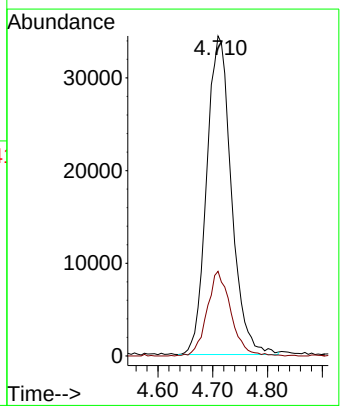
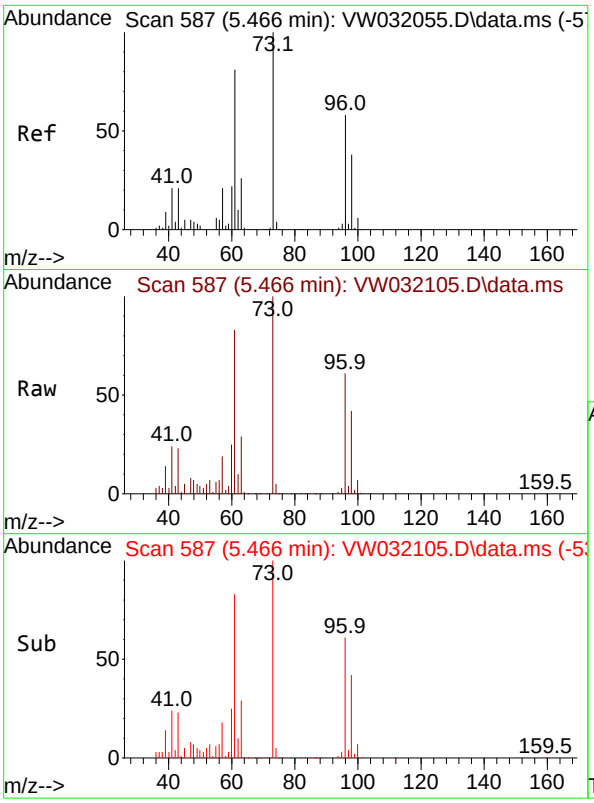


#18
Methyl Acetate
Concen: 53.076 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 107582

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0

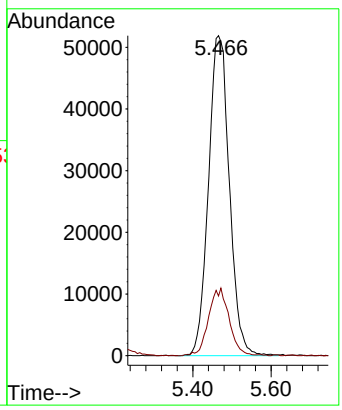




#19
Methyl tert-butyl Ether
Concen: 46.982 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 73 Resp: 19204

Ion	Ratio	Lower	Upper
73	100		
57	18.6	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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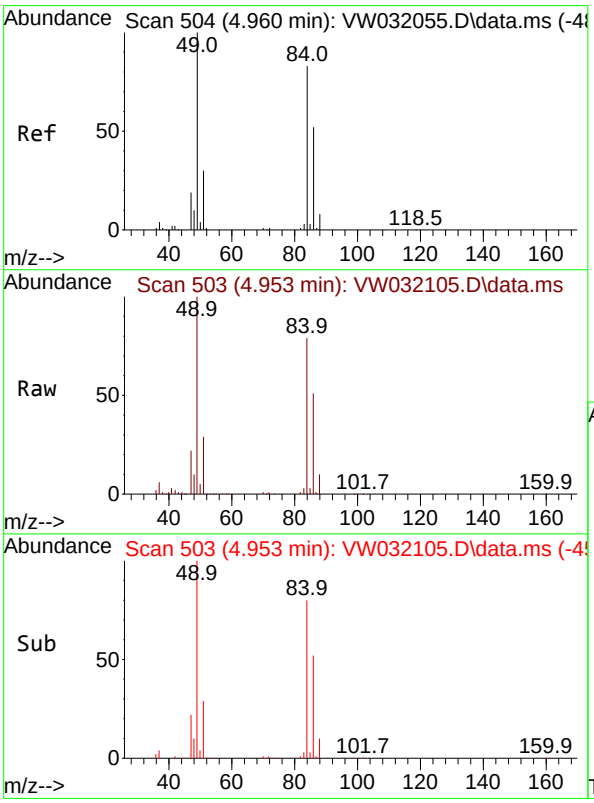
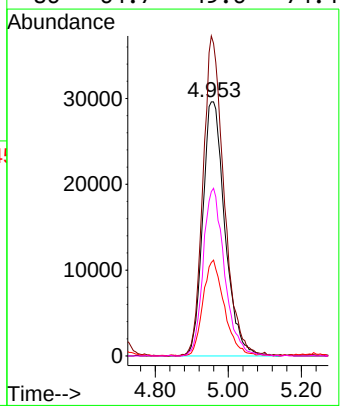
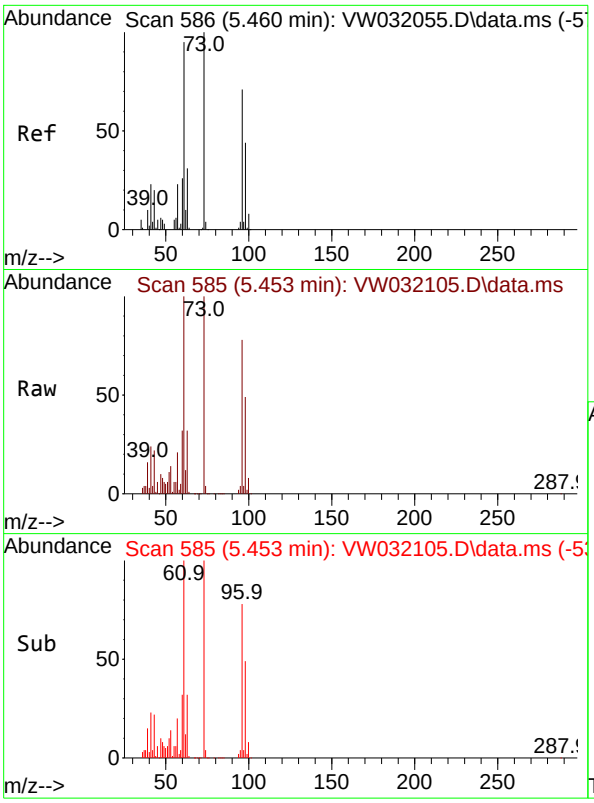


#20
Methylene Chloride
Concen: 41.890 ug/l
RT: 4.953 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 84 Resp: 124065

Ion	Ratio	Lower	Upper
84	100		
49	125.7	95.9	143.9
51	36.7	28.6	43.0
86	64.7	49.6	74.4

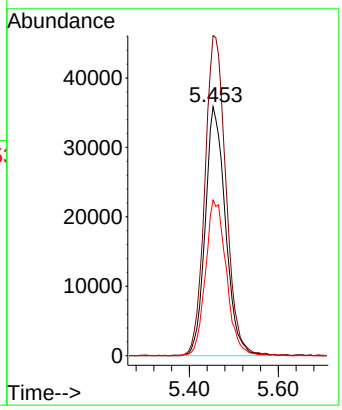




#21
trans-1,2-Dichloroethene
Concen: 46.116 ug/l
RT: 5.453 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 96 Resp: 11353

Ion	Ratio	Lower	Upper
96	100		
61	128.3	106.8	160.2
98	62.5	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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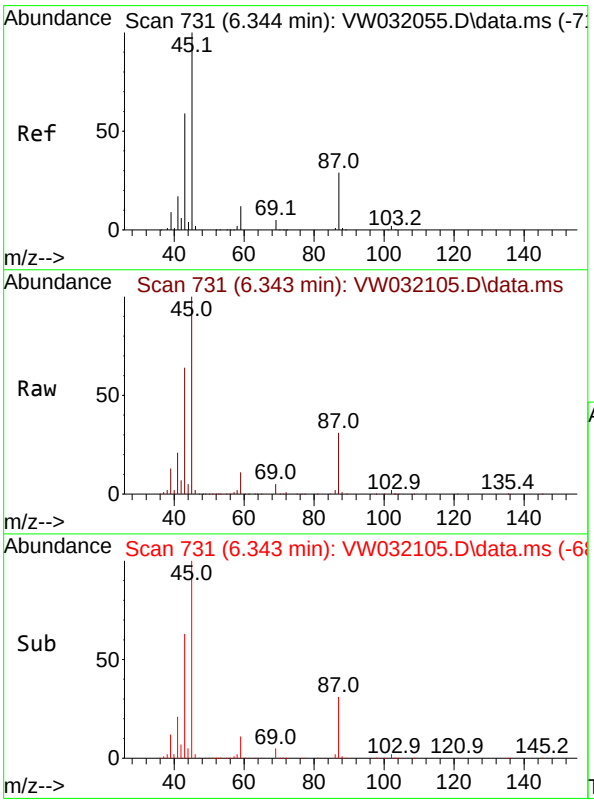
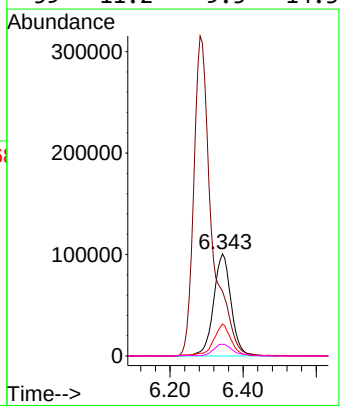
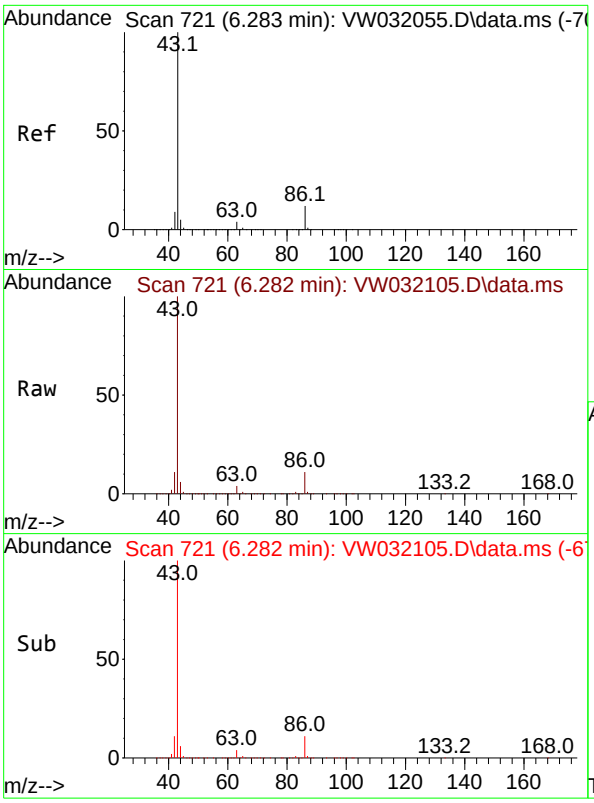


#22
Diisopropyl ether
Concen: 47.159 ug/l
RT: 6.343 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 45 Resp: 335676

Ion	Ratio	Lower	Upper
45	100		
43	63.2	47.0	70.4
87	31.1	23.8	35.8
59	11.2	9.5	14.3





#23
Vinyl Acetate
Concen: 229.096 ug/l
RT: 6.282 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 107064

Ion	Ratio	Lower	Upper
43	100		
86	10.6	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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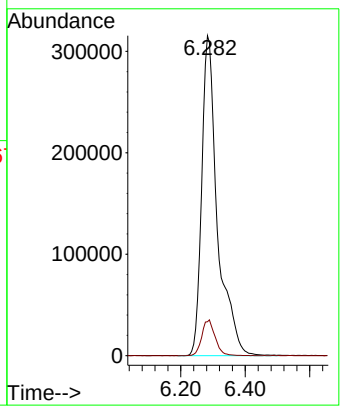
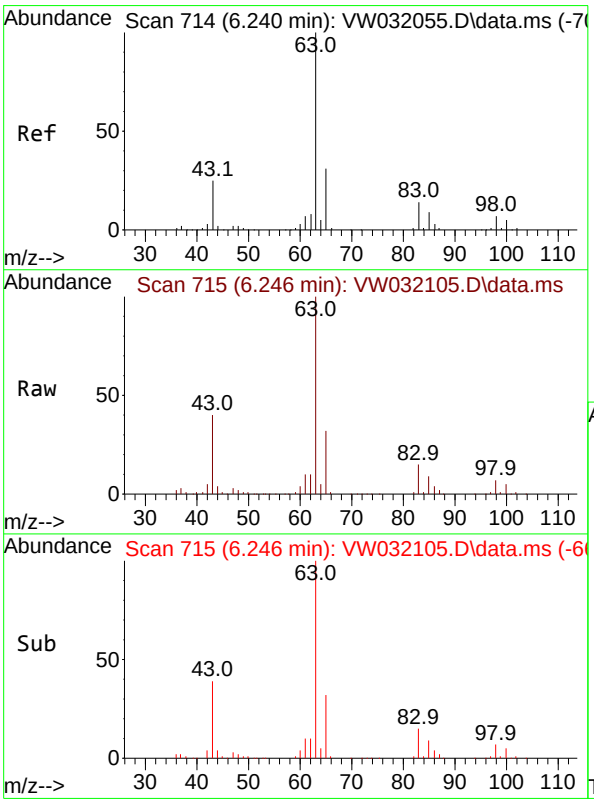
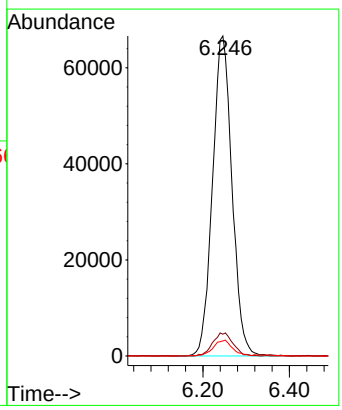


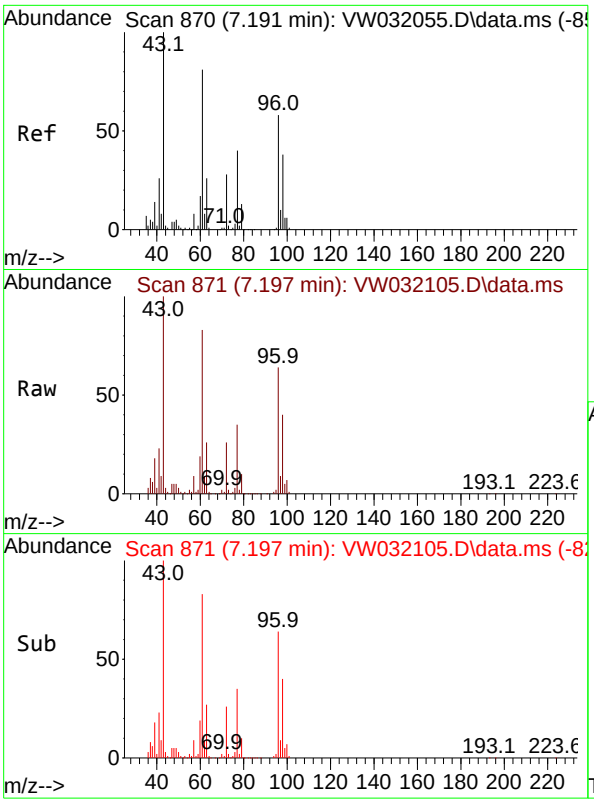


#24
1,1-Dichloroethane
Concen: 45.846 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 63 Resp: 208500

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.7	11.1
100	4.7	2.5	7.4





#25
2-Butanone
Concen: 234.553 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 21353

Ion	Ratio	Lower	Upper
43	100		
72	26.0	22.3	33.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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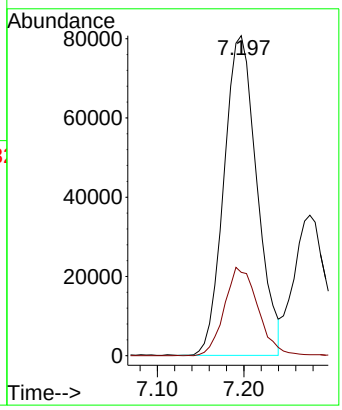
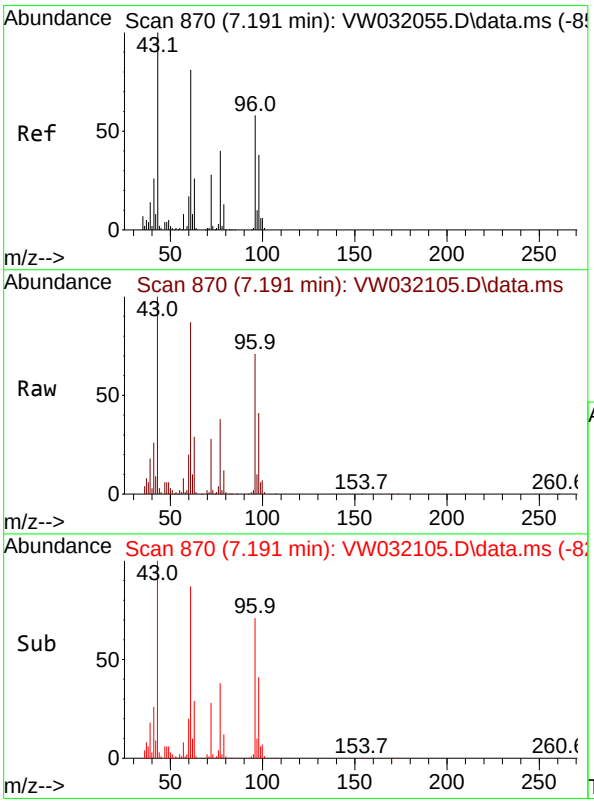
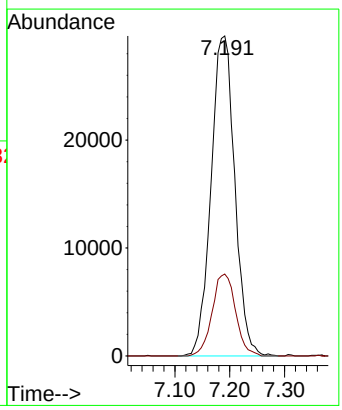


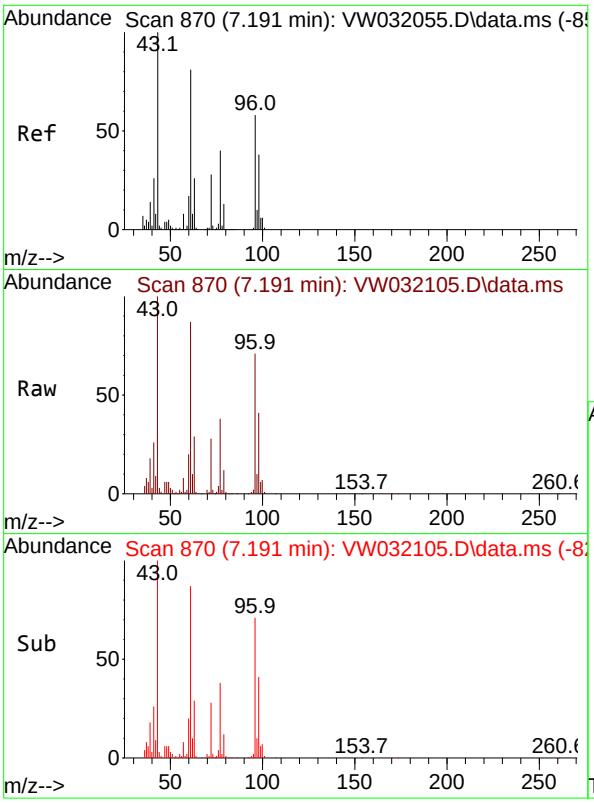


#26
2,2-Dichloropropane
Concen: 39.077 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 77 Resp: 89156

Ion	Ratio	Lower	Upper
77	100		
97	25.3	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 49.023 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 96 Resp: 14107

Ion	Ratio	Lower	Upper
96	100		
61	132.2	0.0	281.2
98	63.9	0.0	130.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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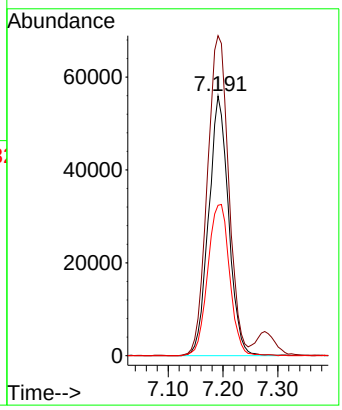
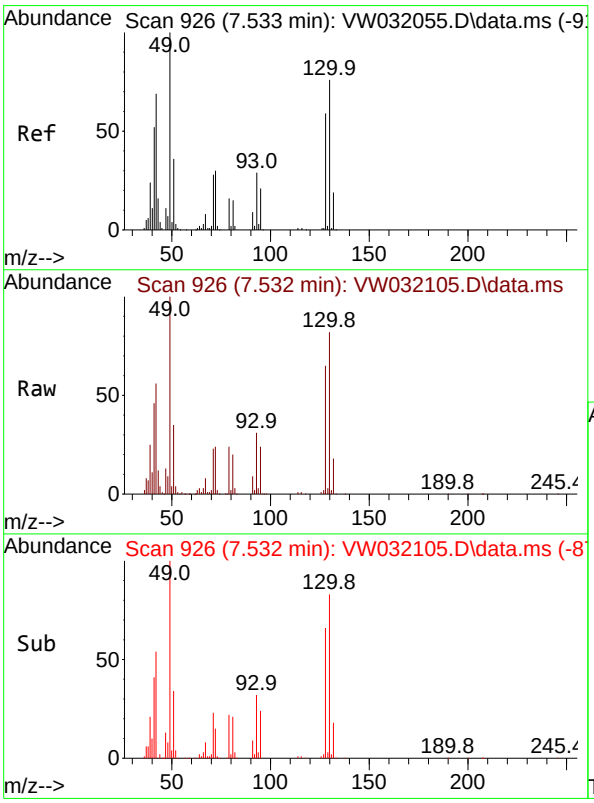
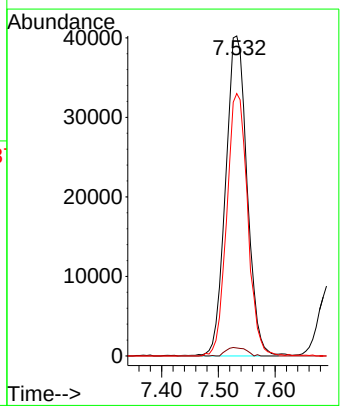


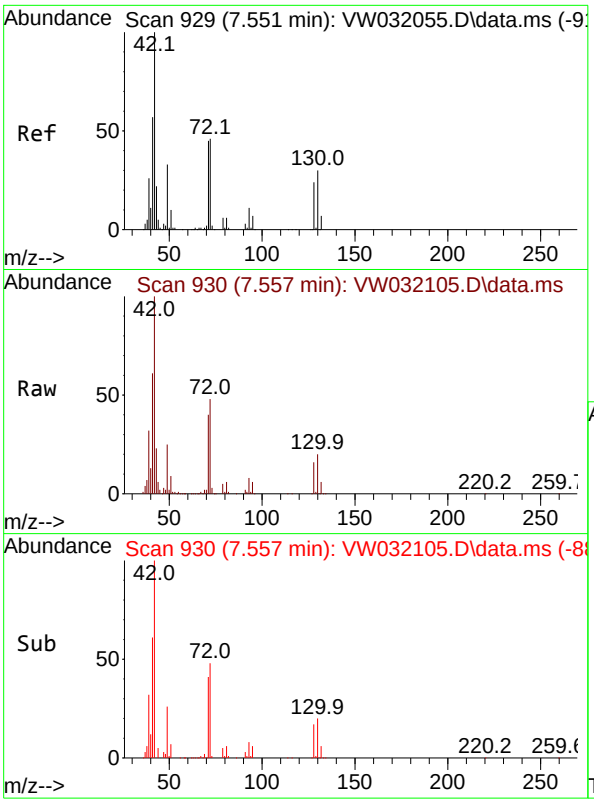


#28
Bromochloromethane
Concen: 51.150 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 49 Resp: 105860

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	79.6	61.9	92.9





#29
Tetrahydrofuran
Concen: 239.596 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 42 Resp: 14385

Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.6	55.0
71	43.5	34.7	52.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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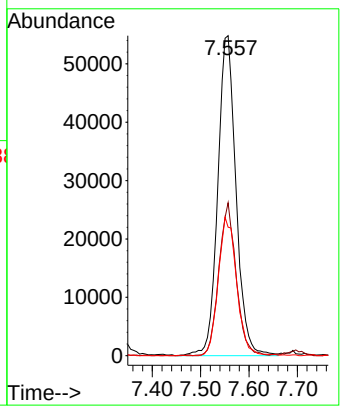
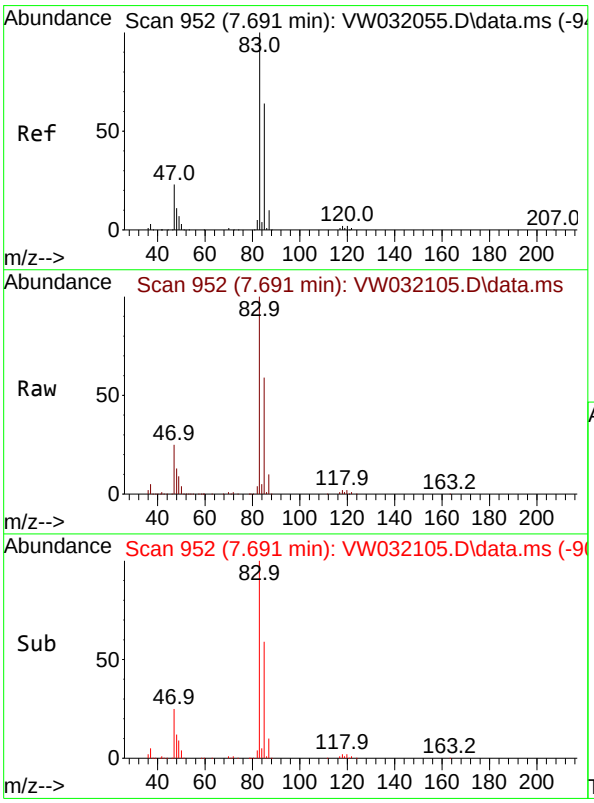
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

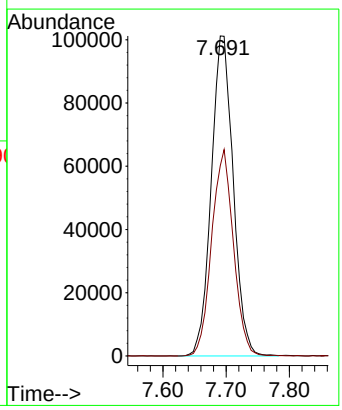


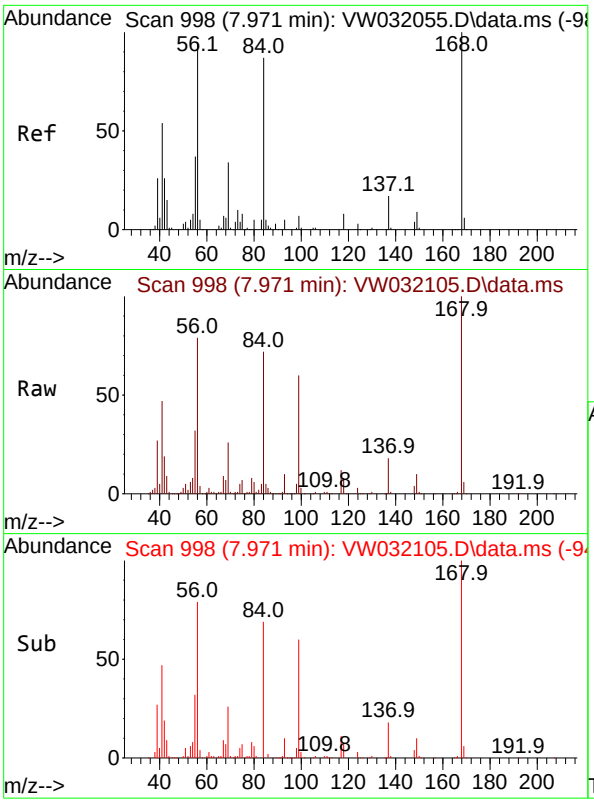


#30
Chloroform
Concen: 50.525 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 83 Resp: 243601

Ion	Ratio	Lower	Upper
83	100		
85	59.4	51.0	76.4

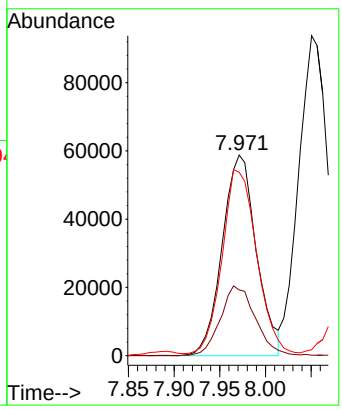




#31
Cyclohexane
Concen: 38.784 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 56 Resp: 15291

Ion	Ratio	Lower	Upper
56	100		
69	32.8	28.6	42.8
84	90.3	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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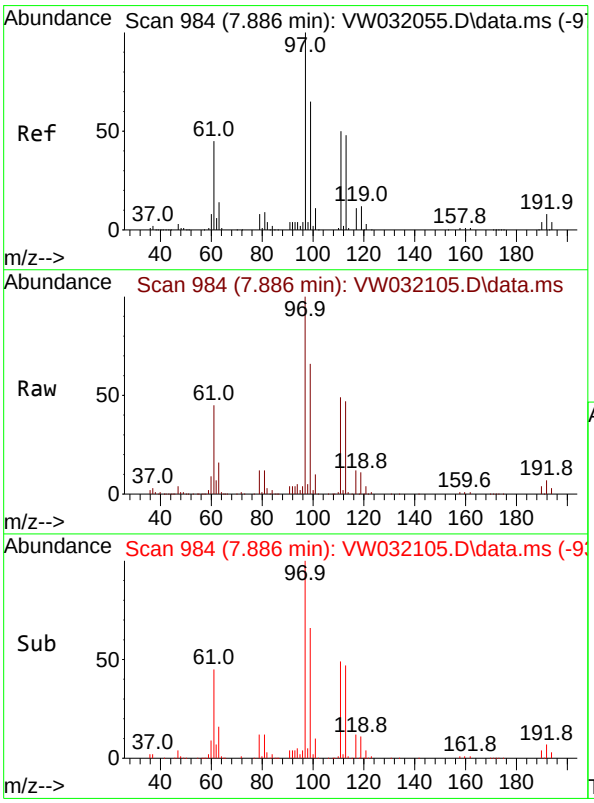
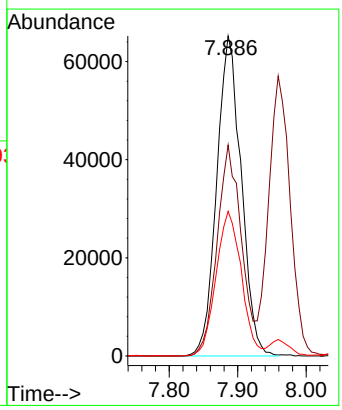
Supervised By :Mahesh Dadoda 08/19/2025

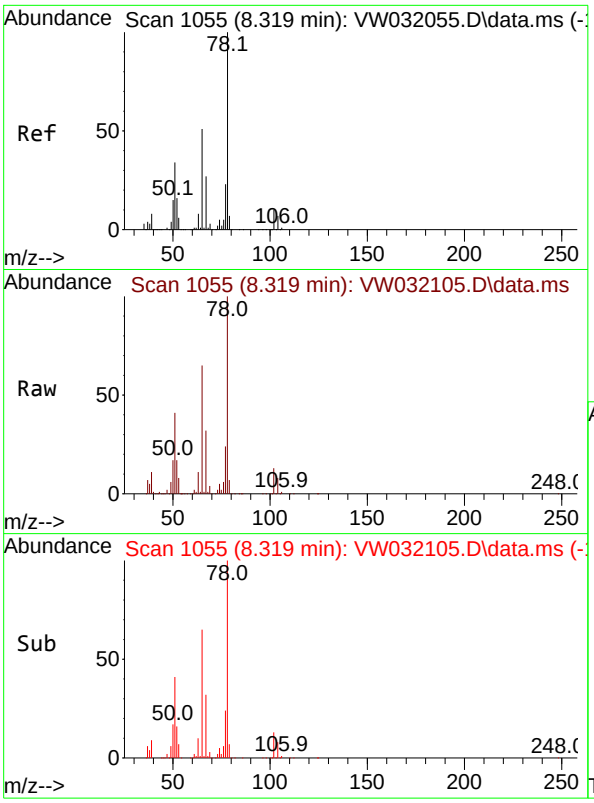


#32
1,1,1-Trichloroethane
Concen: 46.176 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 97 Resp: 161712

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.8	77.8
61	46.8	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 53.028 ug/l
RT: 8.319 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 65 Resp: 14671(

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	102.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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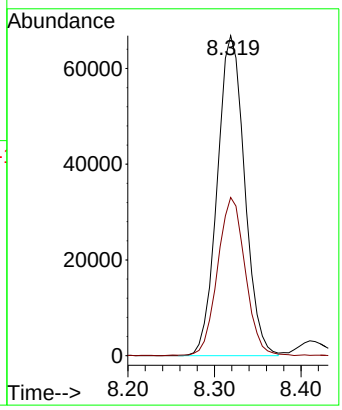
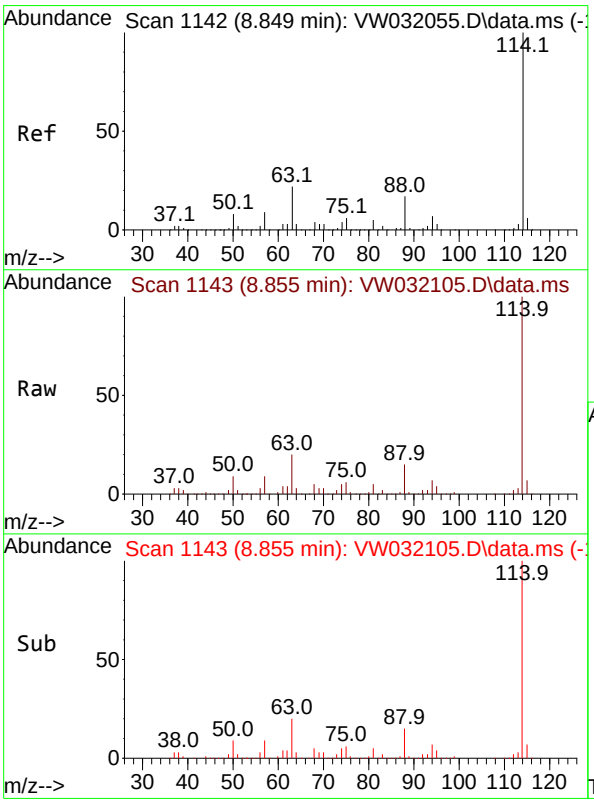
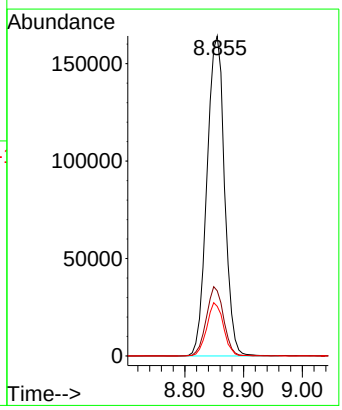


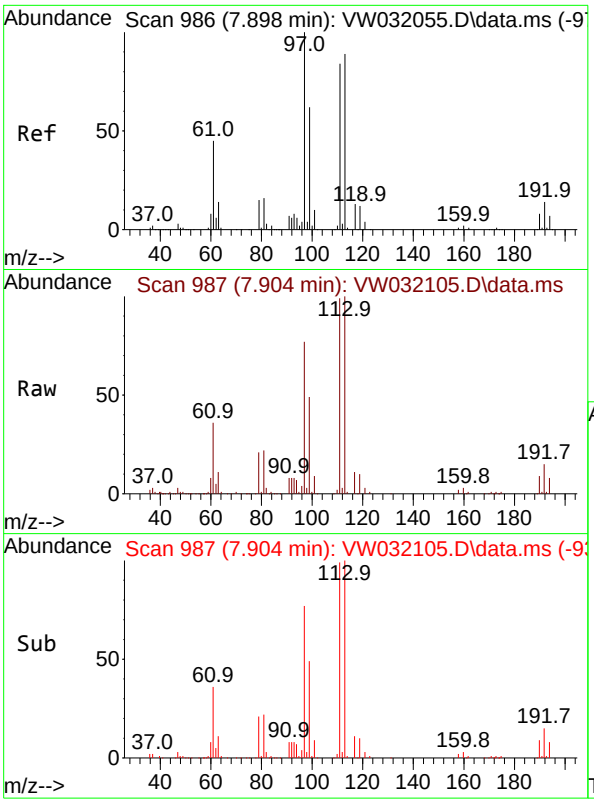


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:114 Resp: 340189

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.0
88	15.5	0.0	33.8

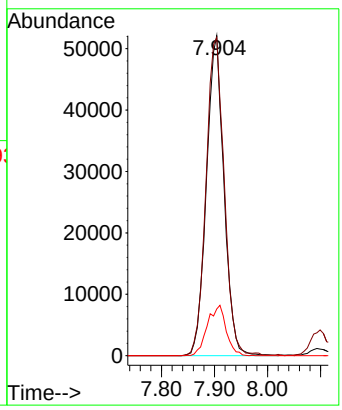




#35
Dibromofluoromethane
Concen: 54.222 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:113 Resp: 11916

Ion	Ratio	Lower	Upper
113	100		
111	103.6	80.1	120.1
192	17.0	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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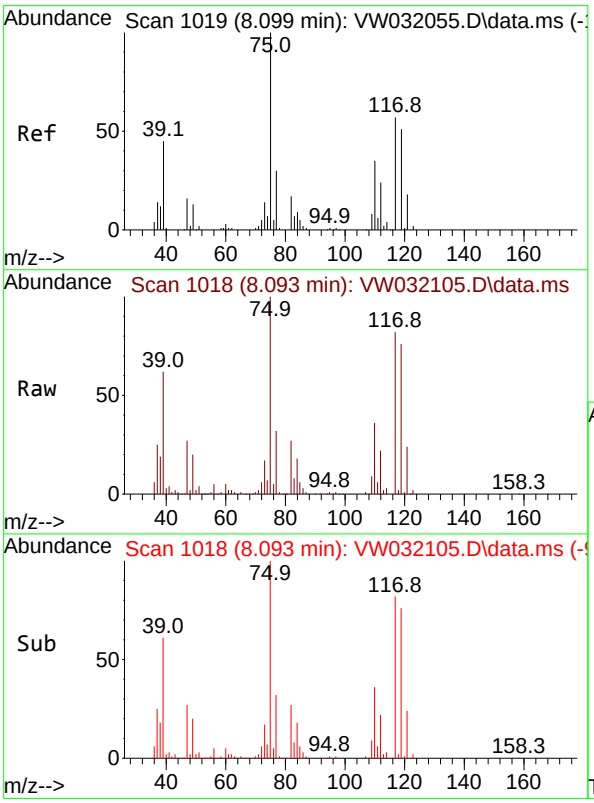
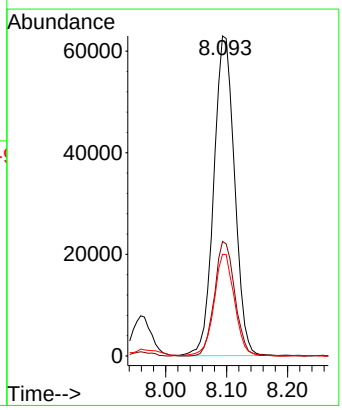
Supervised By :Mahesh Dadoda 08/19/2025

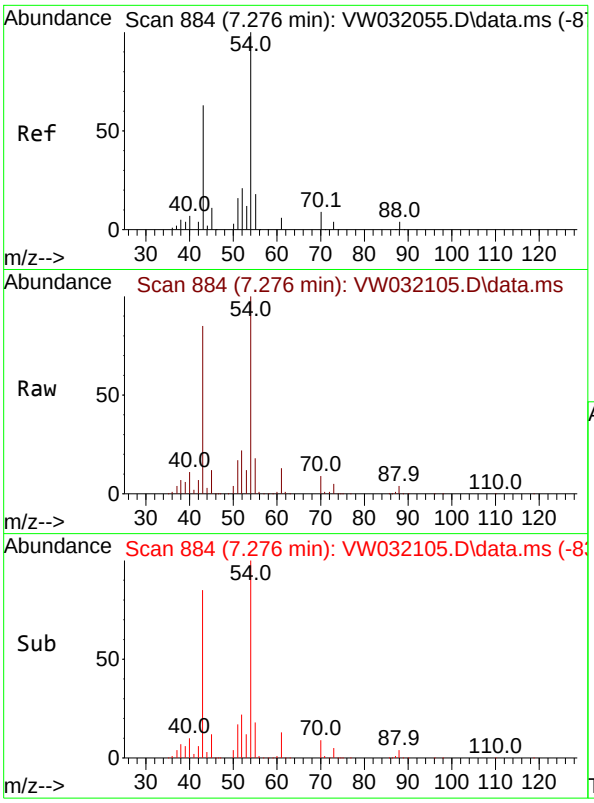


#36
1,1-Dichloropropene
Concen: 48.076 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 148951

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.4	24.7	37.1





#37
Ethyl Acetate
Concen: 50.898 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 9287

Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.8	17.6
70	10.3	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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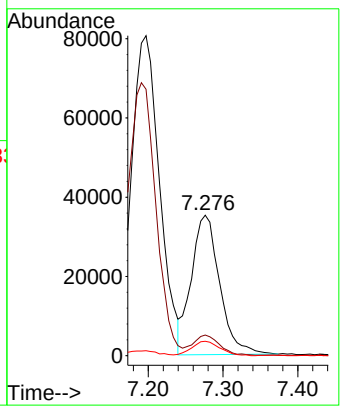
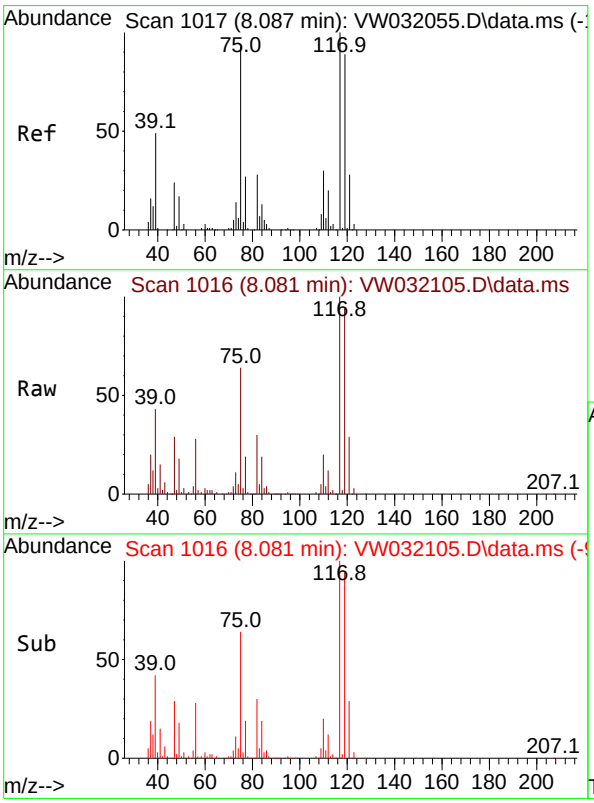
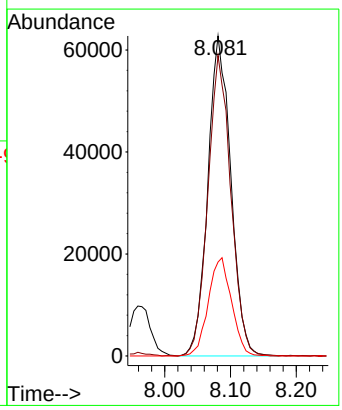


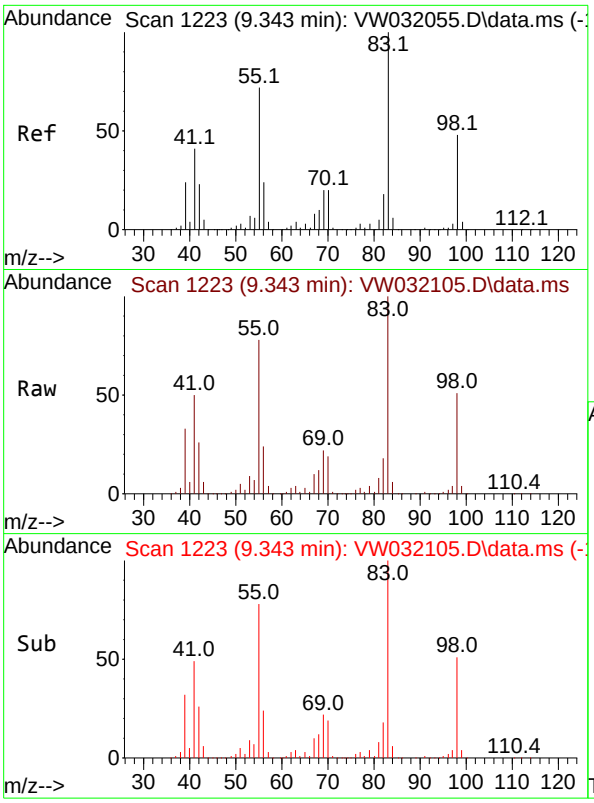


#38
Carbon Tetrachloride
Concen: 51.129 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:117 Resp: 152872

Ion	Ratio	Lower	Upper
117	100		
119	93.8	71.4	107.2
121	29.3	22.3	33.5





#39
Methylcyclohexane
Concen: 44.891 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 83 Resp: 16952

Ion	Ratio	Lower	Upper
83	100		
55	77.9	57.9	86.9
98	50.9	38.3	57.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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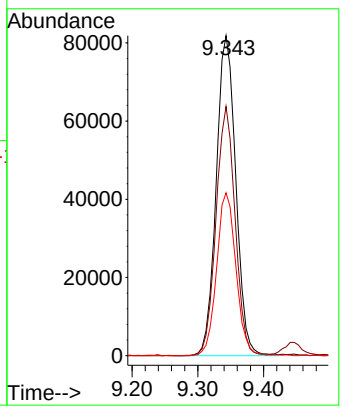
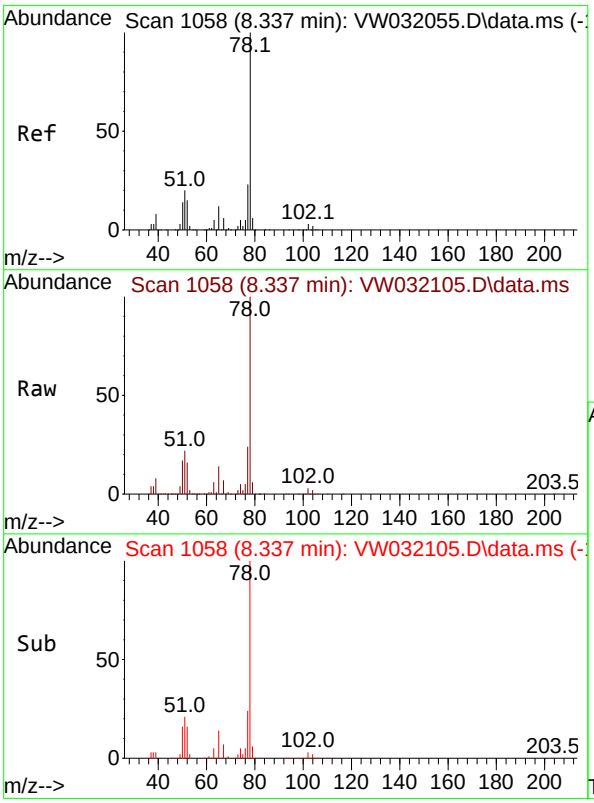
Supervised By :Mahesh Dadoda 08/19/2025

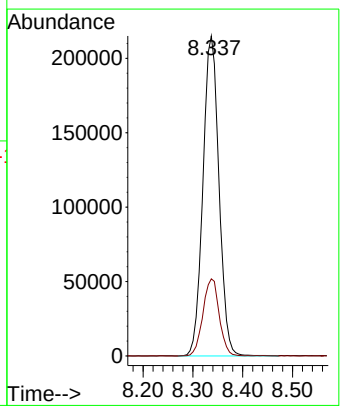


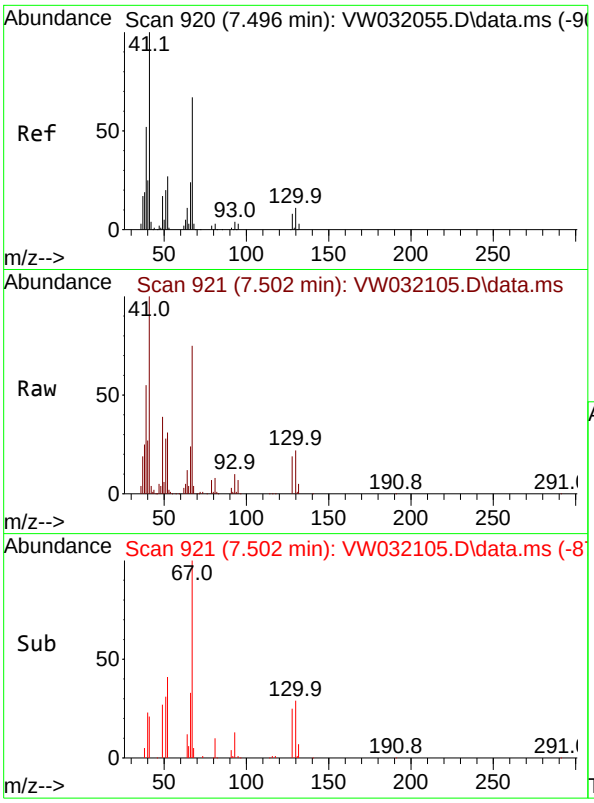


#40
Benzene
Concen: 49.865 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 78 Resp: 480231

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.4	27.6

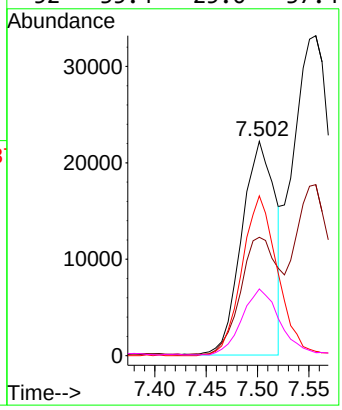




#41
Methacrylonitrile
Concen: 48.528 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 41 Resp: 5021

Ion	Ratio	Lower	Upper
41	100		
39	63.7	42.6	63.8
67	80.8	61.0	91.4
52	35.4	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
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Manual Integrations
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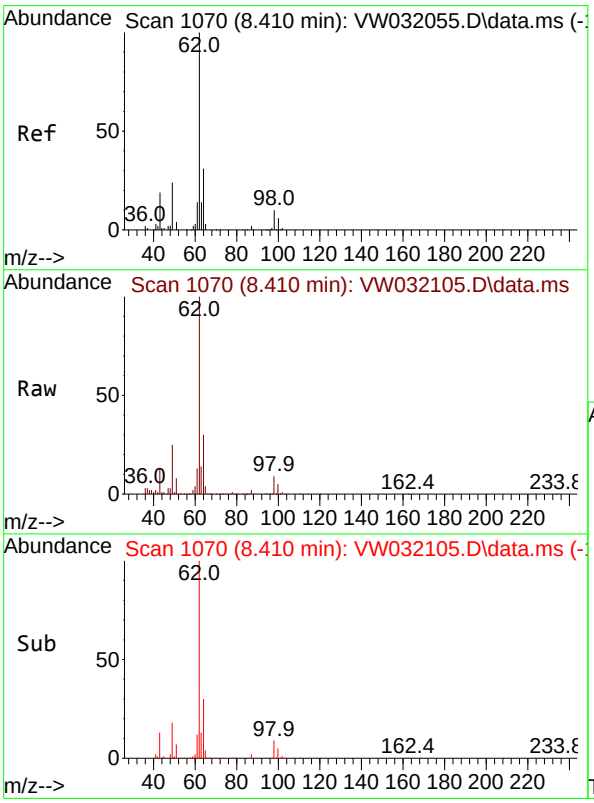
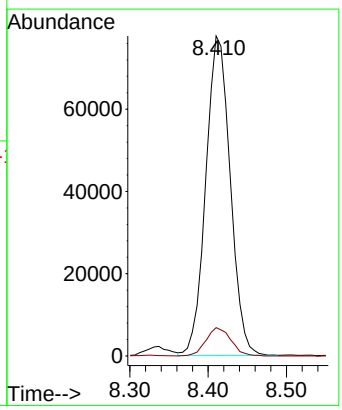
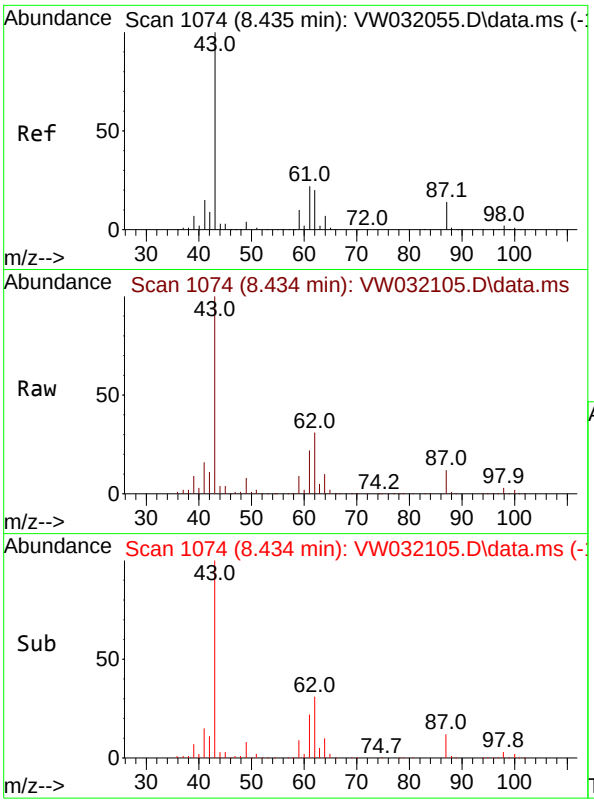


#42
1,2-Dichloroethane
Concen: 54.726 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 62 Resp: 168647

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	19.8

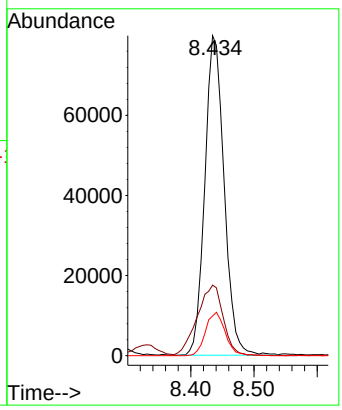




#43
Isopropyl Acetate
Concen: 50.564 ug/l
RT: 8.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 16975

Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.8	35.8
87	13.9	11.7	17.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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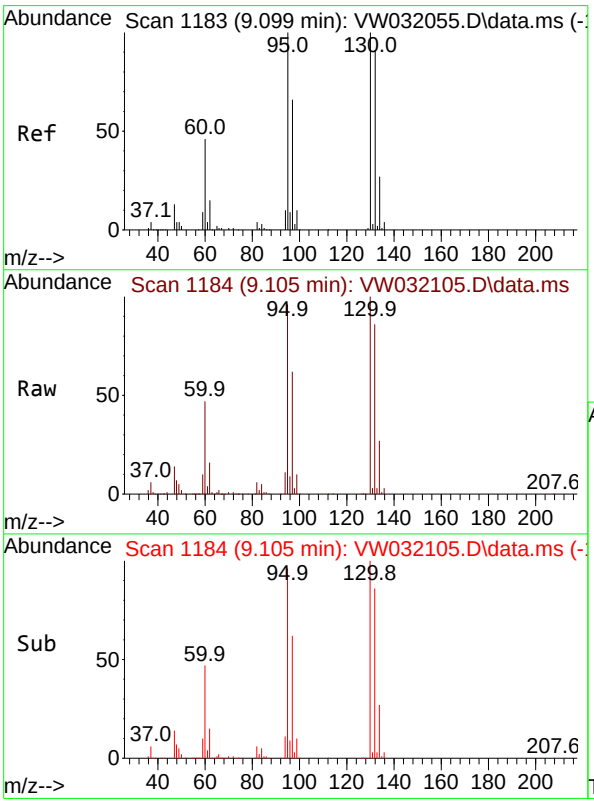
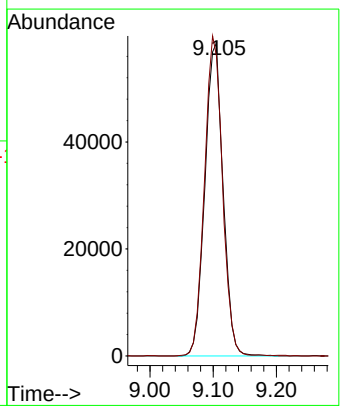
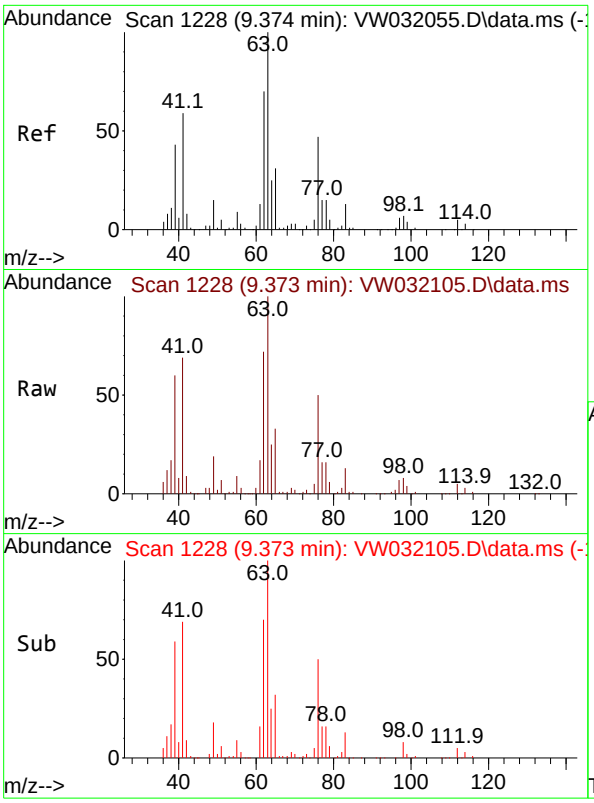


#44
Trichloroethene
Concen: 50.915 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:130 Resp: 116771

Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	200.6





#45
1,2-Dichloropropane
Concen: 49.769 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 63 Resp: 11579

Ion	Ratio	Lower	Upper
63	100		
65	32.6	24.6	36.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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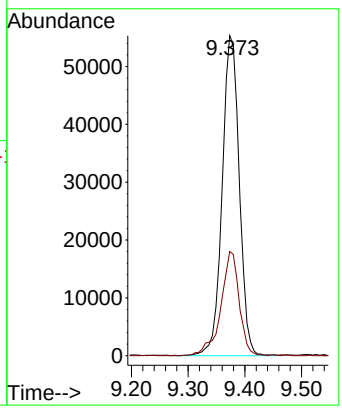
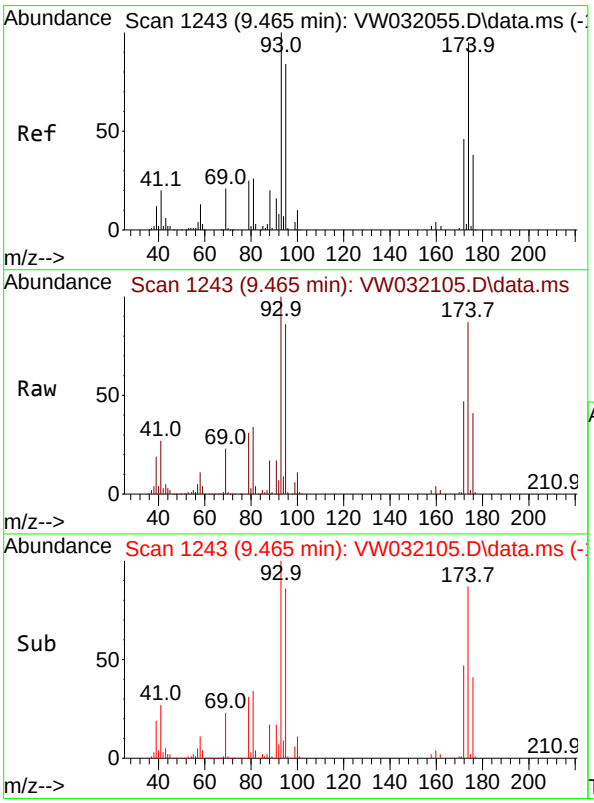
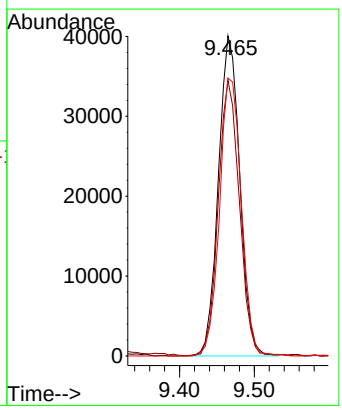


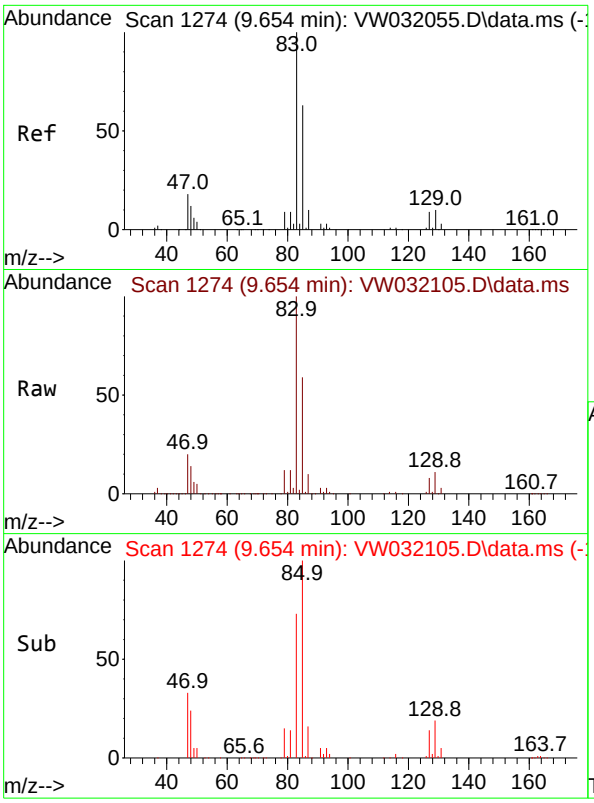


#46
Dibromomethane
Concen: 53.105 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 93 Resp: 79744

Ion	Ratio	Lower	Upper
93	100		
95	85.2	65.3	97.9
174	88.7	68.6	102.8

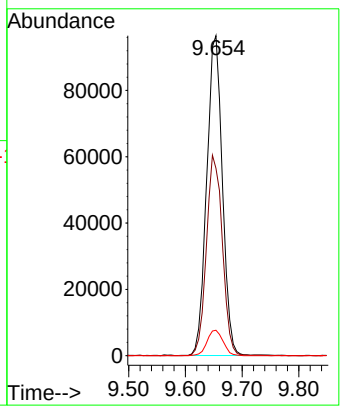




#47
Bromodichloromethane
Concen: 53.359 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 83 Resp: 18462

Ion	Ratio	Lower	Upper
83	100		
85	58.6	50.6	75.8
127	8.0	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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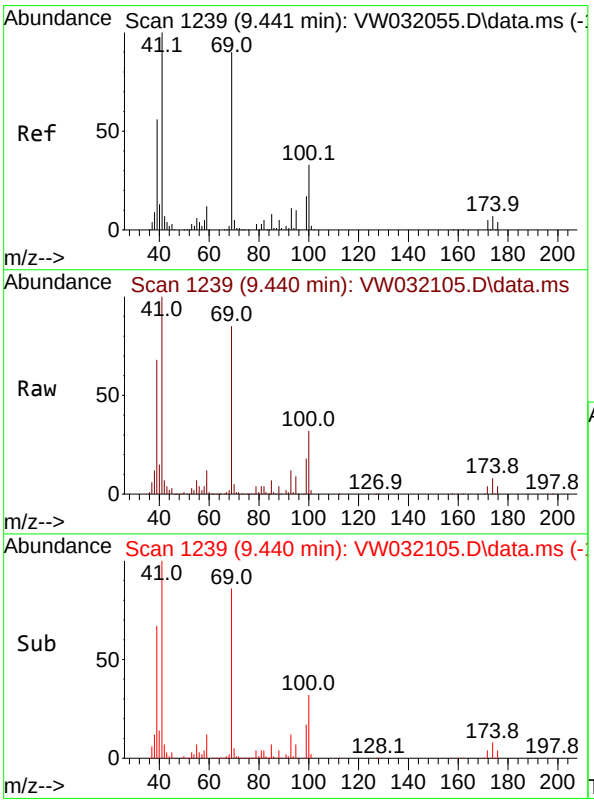
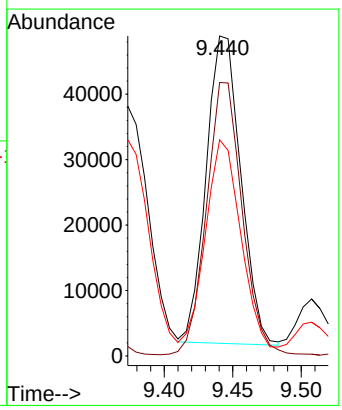
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

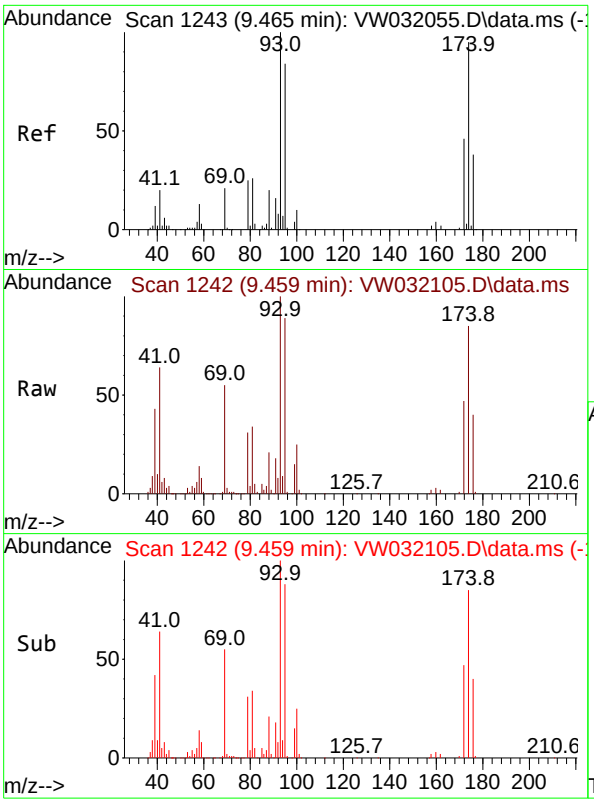


#48
Methyl methacrylate
Concen: 50.886 ug/l
RT: 9.440 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 41 Resp: 82474

Ion	Ratio	Lower	Upper
41	100		
69	91.9	73.0	109.6
39	74.0	45.0	67.4#





#49
1,4-Dioxane
Concen: 1041.083 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 88 Resp: 2021

Ion	Ratio	Lower	Upper
88	100		
43	27.2	20.6	30.8
58	68.8	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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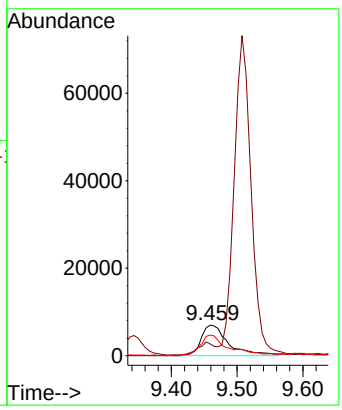
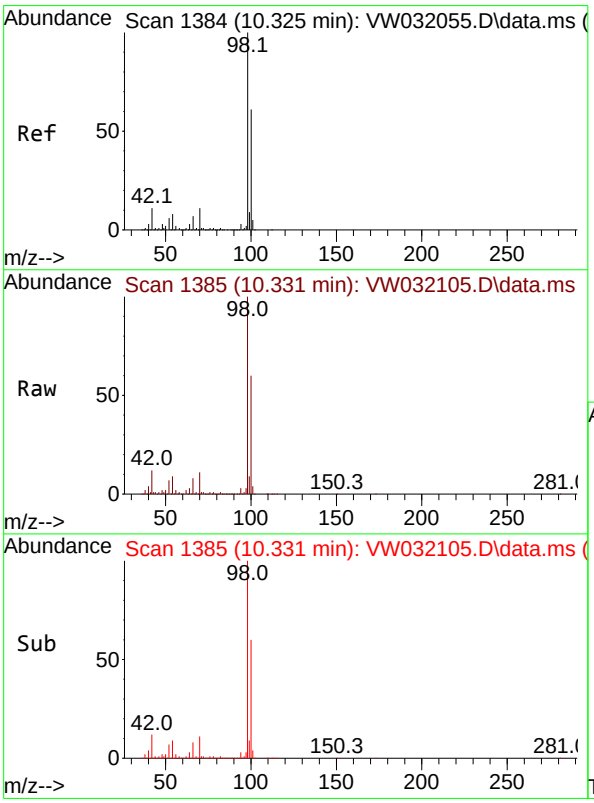
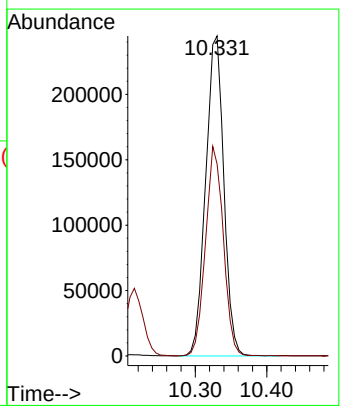


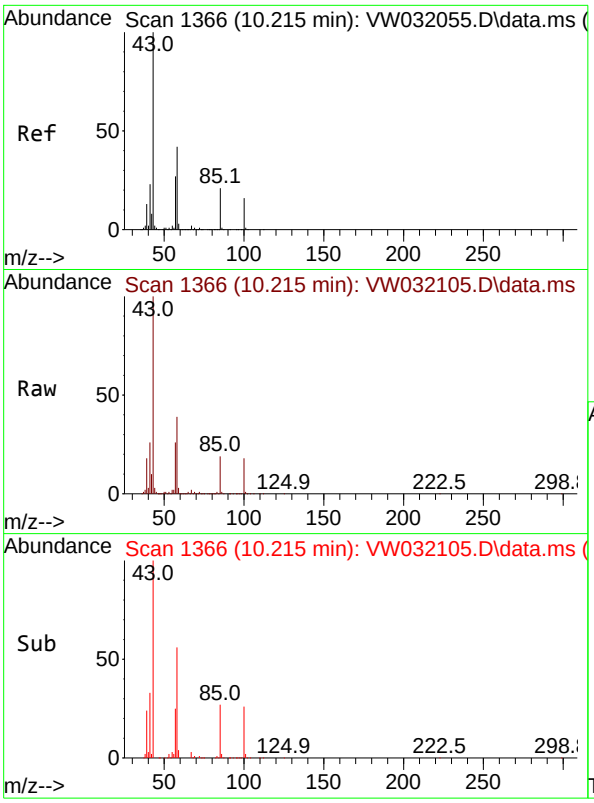


#50
Toluene-d8
Concen: 53.076 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 98 Resp: 431442

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7

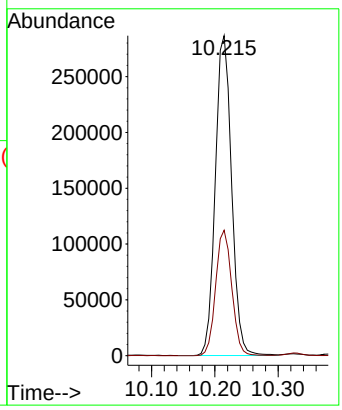




#51
4-Methyl-2-Pentanone
Concen: 269.316 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 51033

Ion	Ratio	Lower	Upper
43	100		
58	38.9	33.1	49.7



Instrument :
MSVOA_W
ClientSampleId :
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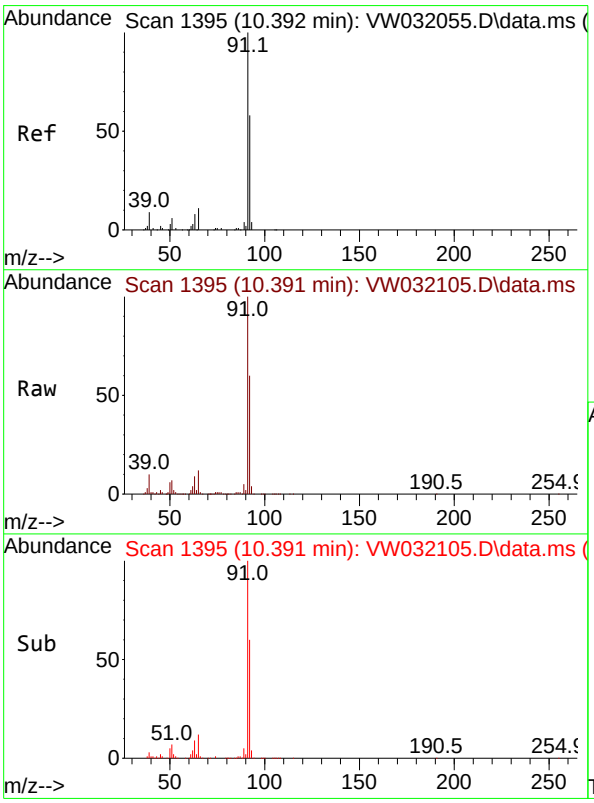
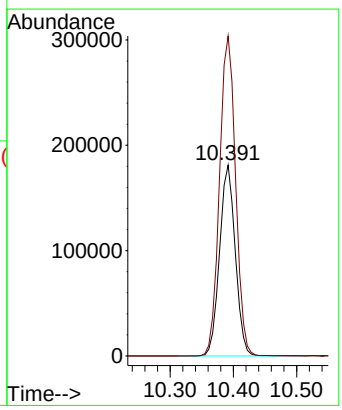
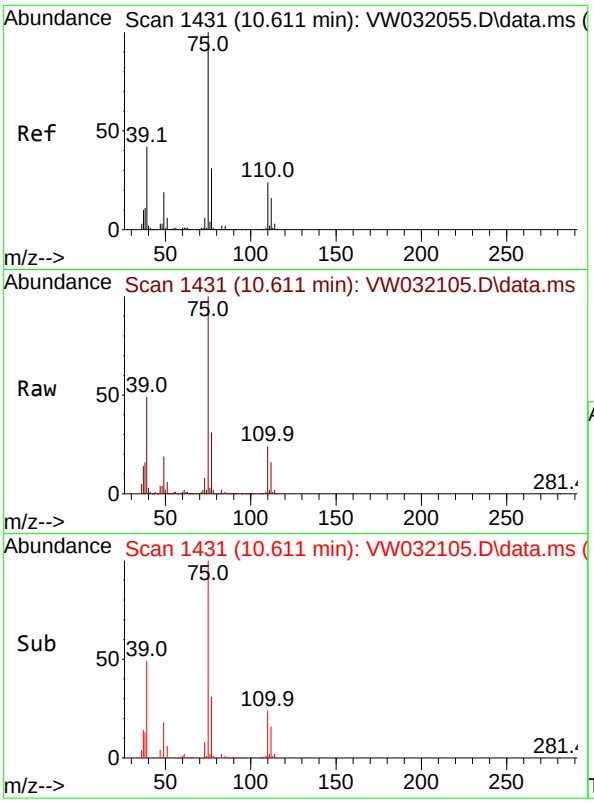


#52
Toluene
Concen: 51.219 ug/l
RT: 10.391 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 92 Resp: 310694

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.3	204.5





#53
t-1,3-Dichloropropene
Concen: 48.849 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 15835

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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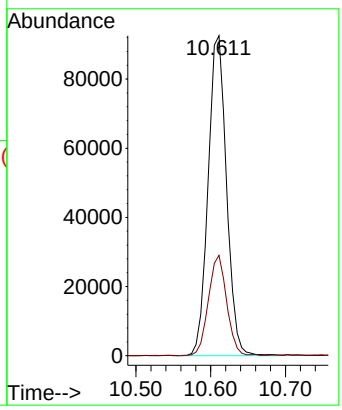
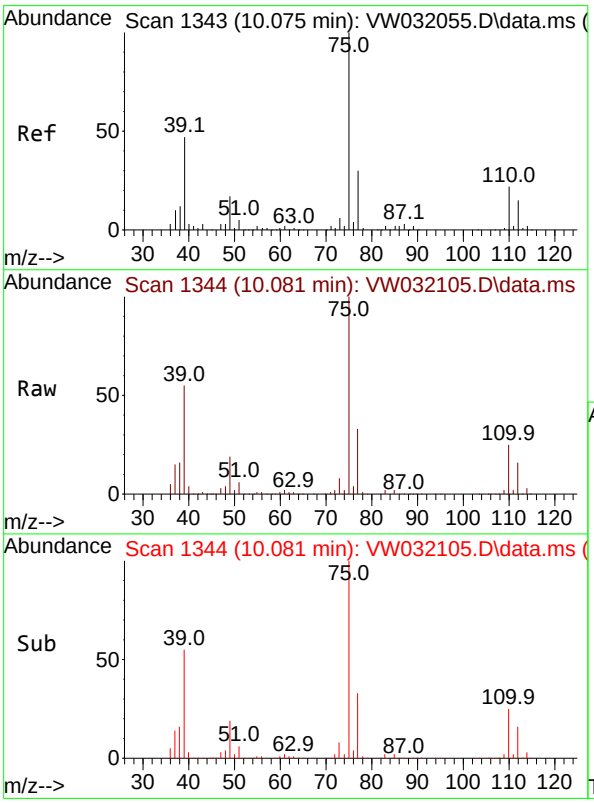
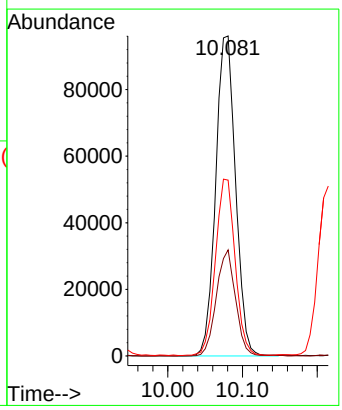


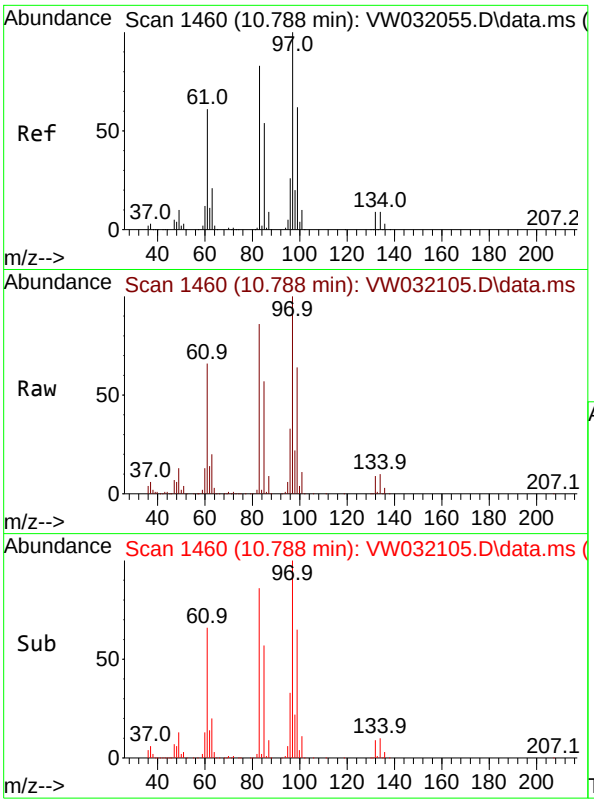


#54
cis-1,3-Dichloropropene
Concen: 48.366 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 177874

Ion	Ratio	Lower	Upper
75	100		
77	33.2	24.0	36.0
39	54.8	37.8	56.8

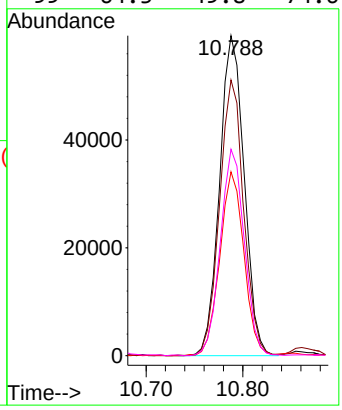




#55
1,1,2-Trichloroethane
Concen: 52.415 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 97 Resp: 10459

Ion	Ratio	Lower	Upper
97	100		
83	85.9	66.4	99.6
85	57.5	43.1	64.7
99	64.3	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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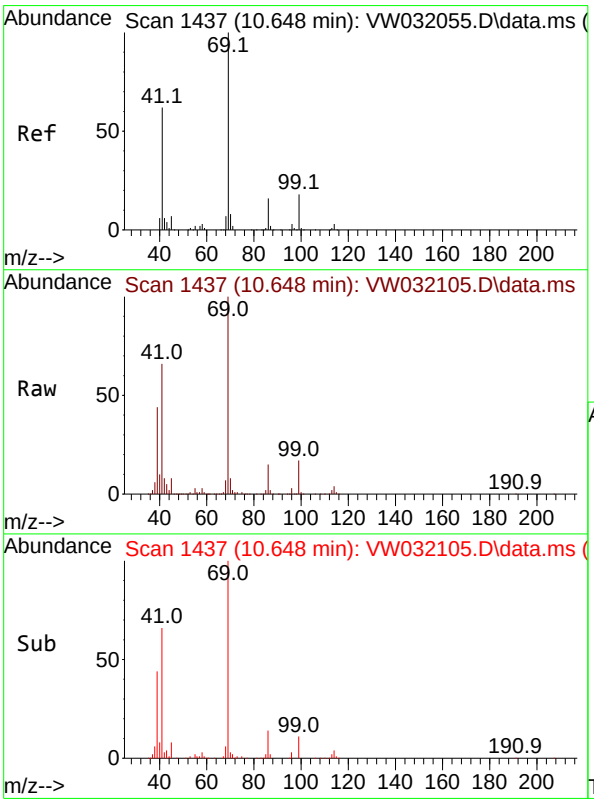
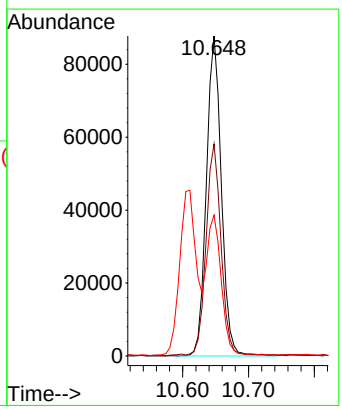
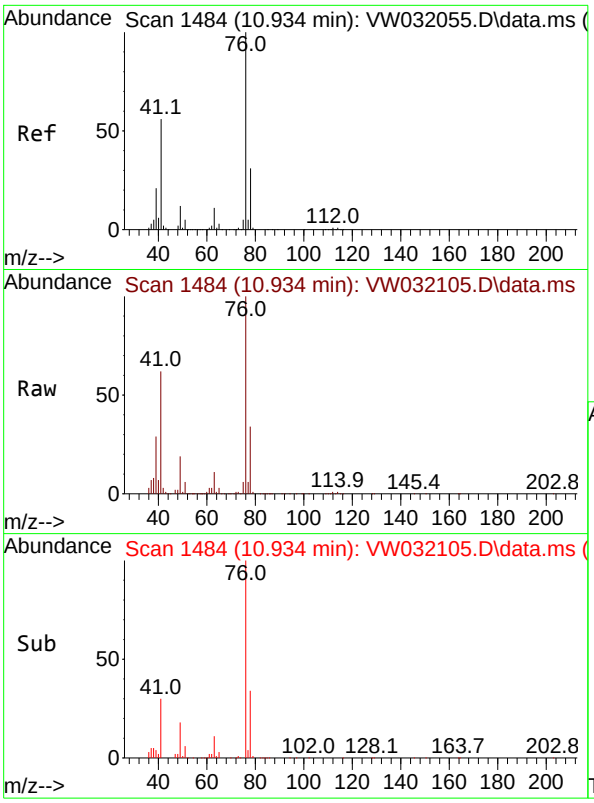


#56
Ethyl methacrylate
Concen: 51.993 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 69 Resp: 138833

Ion	Ratio	Lower	Upper
69	100		
41	66.2	51.2	76.8
39	41.9	25.4	38.0#





#57
1,3-Dichloropropane
Concen: 50.807 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 76 Resp: 17671

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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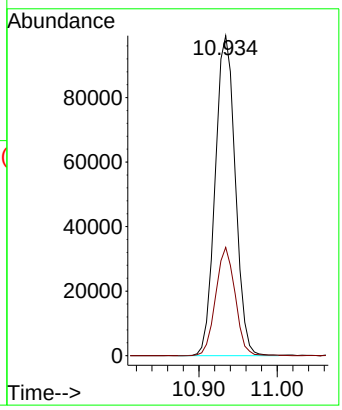
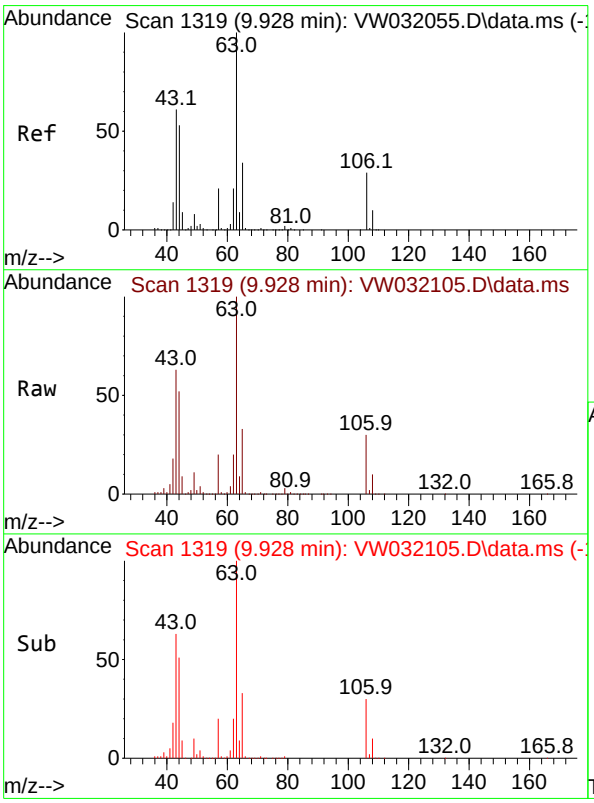
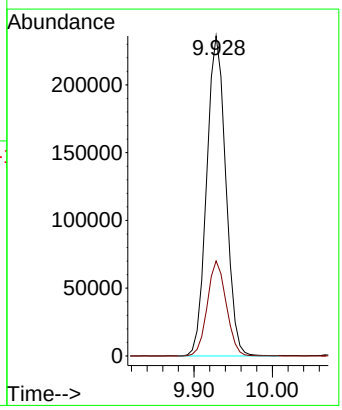


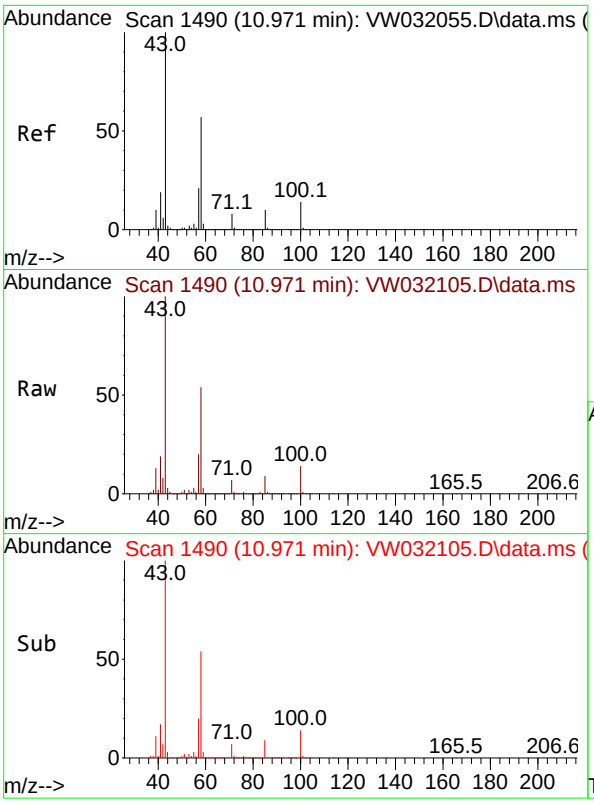


#58
2-Chloroethyl Vinyl ether
Concen: 271.010 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 63 Resp: 400276

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.5	35.3





#59
2-Hexanone
Concen: 270.484 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 354969

Ion	Ratio	Lower	Upper
43	100		
58	53.6	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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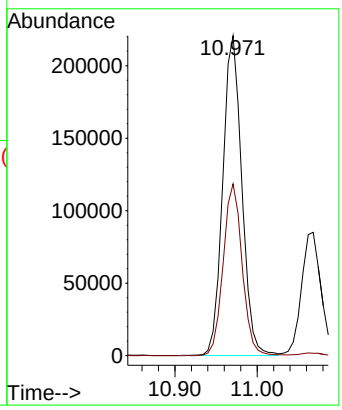
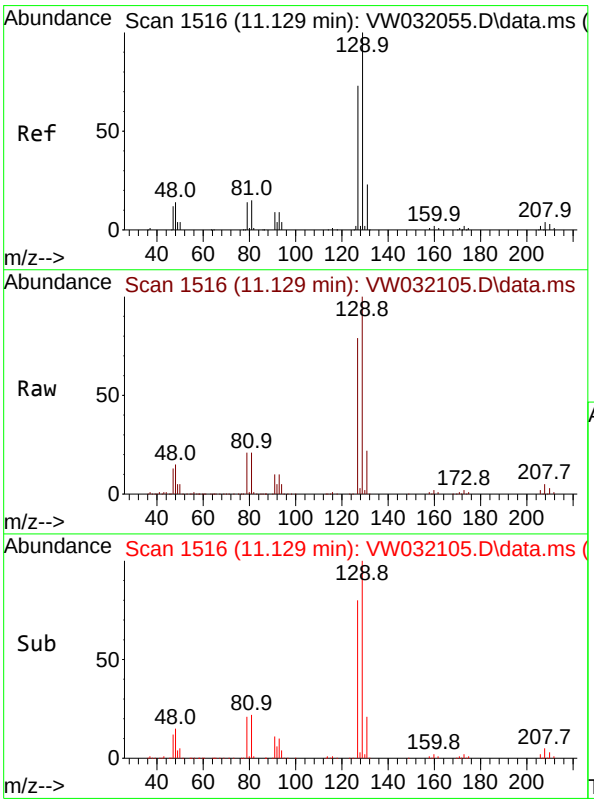
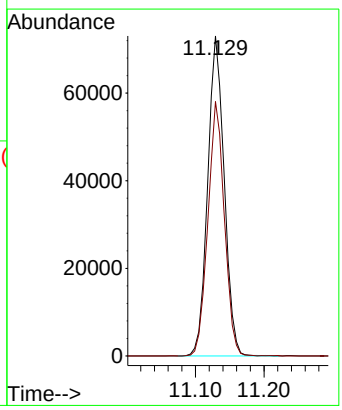


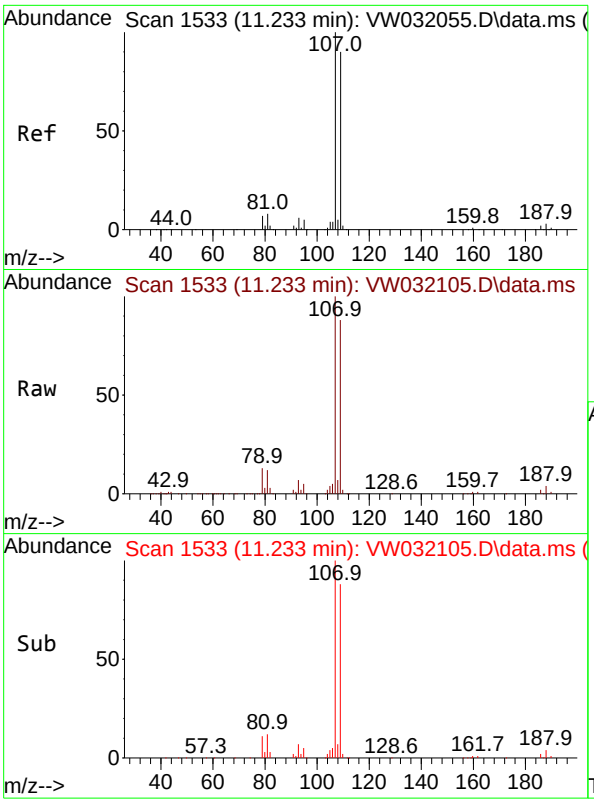


#60
Dibromochloromethane
Concen: 53.691 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:129 Resp: 122381

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.0	116.9

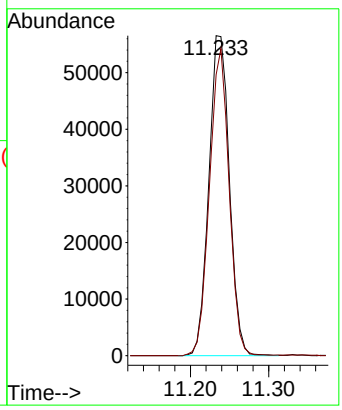




#61
1,2-Dibromoethane
Concen: 53.107 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:107 Resp: 10297

Ion	Ratio	Lower	Upper
107	100		
109	91.6	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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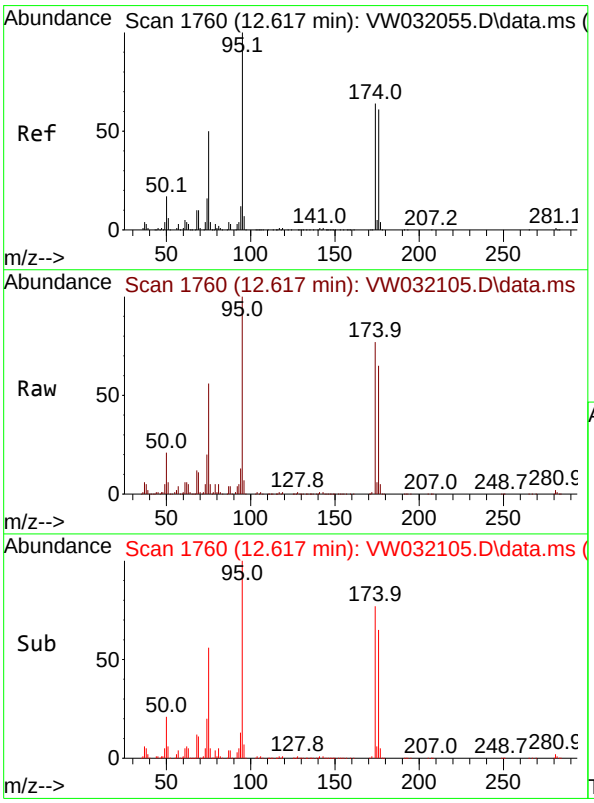
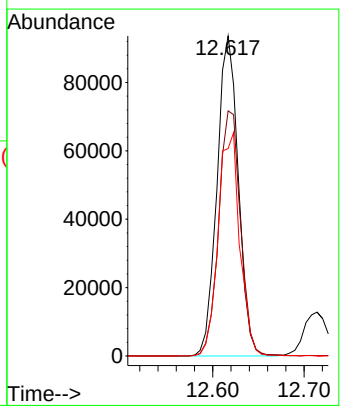
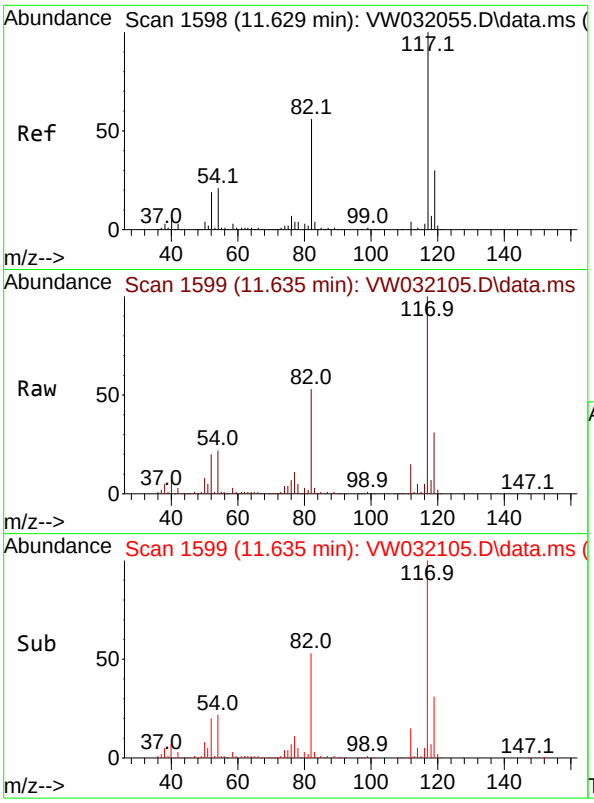


#62
4-Bromofluorobenzene
Concen: 50.684 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 95 Resp: 151827

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	129.0
176	71.1	0.0	124.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:117 Resp: 32594

Ion	Ratio	Lower	Upper
117	100		
82	53.3	45.0	67.4
119	31.1	24.2	36.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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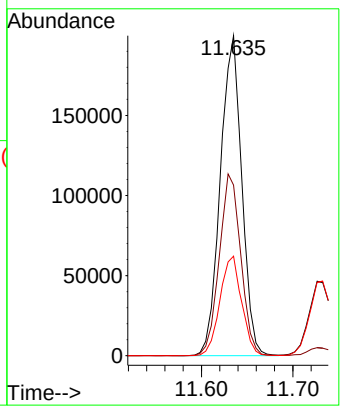
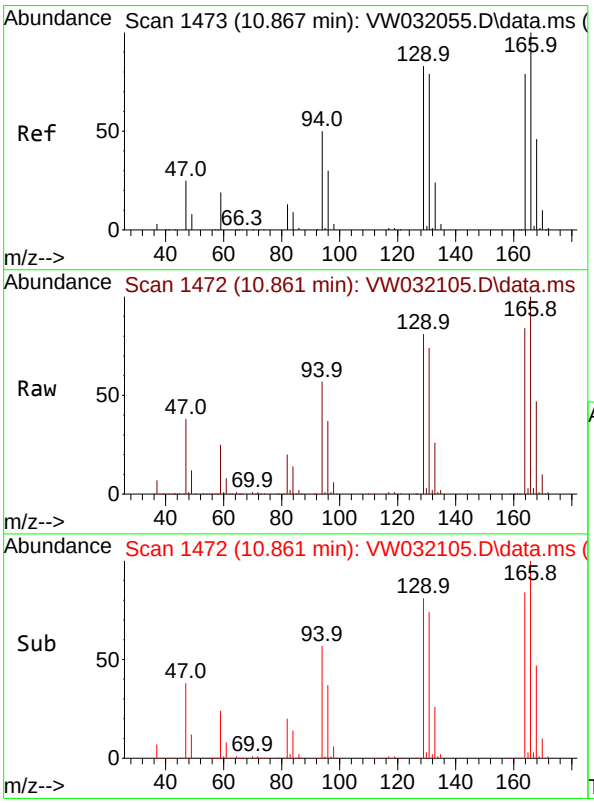
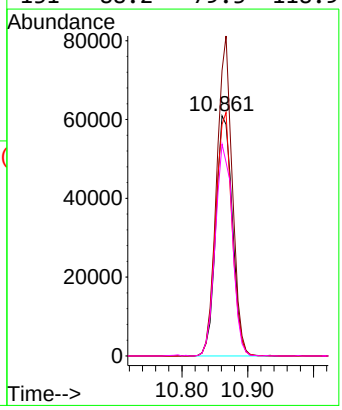


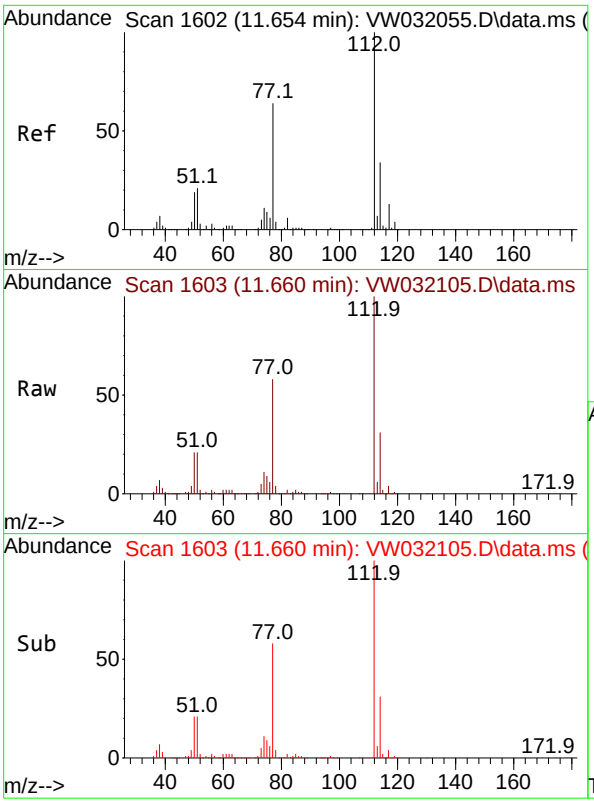


#64
Tetrachloroethene
Concen: 56.838 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:164 Resp: 107005

Ion	Ratio	Lower	Upper
164	100		
166	118.8	100.9	151.3
129	96.4	83.6	125.4
131	88.2	79.3	118.9

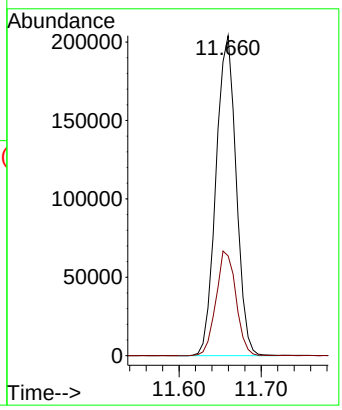




#65
Chlorobenzene
Concen: 49.157 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:112 Resp: 34875

Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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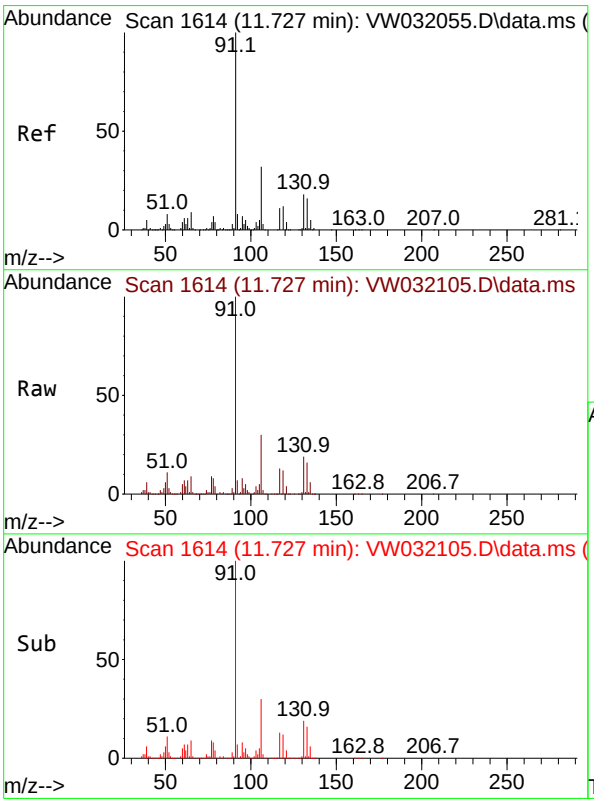
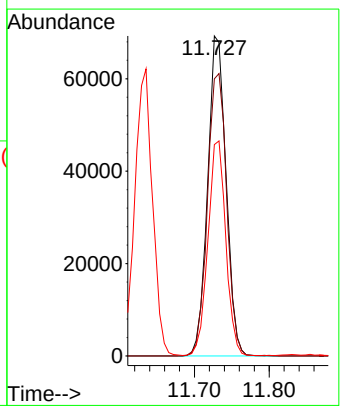
Supervised By :Mahesh Dadoda 08/19/2025

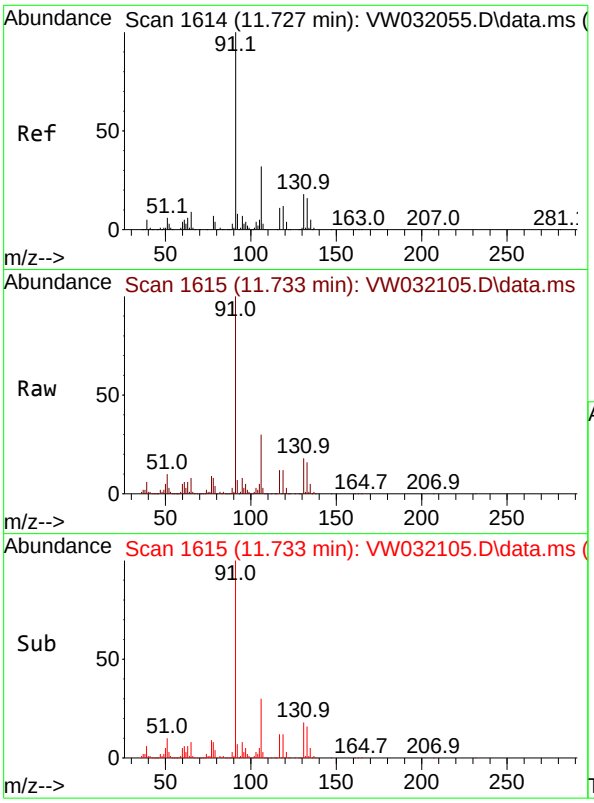


#66
1,1,1,2-Tetrachloroethane
Concen: 53.648 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:131 Resp: 118751

Ion	Ratio	Lower	Upper
131	100		
133	92.1	47.3	142.0
119	65.1	34.5	103.5

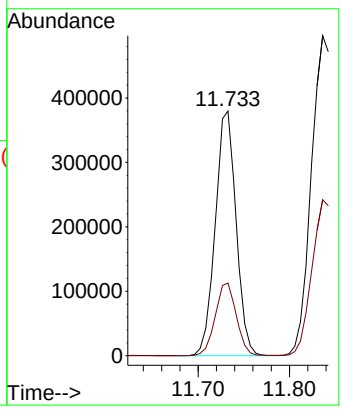




#67
Ethyl Benzene
Concen: 50.069 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 60168

Ion	Ratio	Lower	Upper
91	100		
106	29.7	25.4	38.0



Instrument :
MSVOA_W
ClientSampleId :
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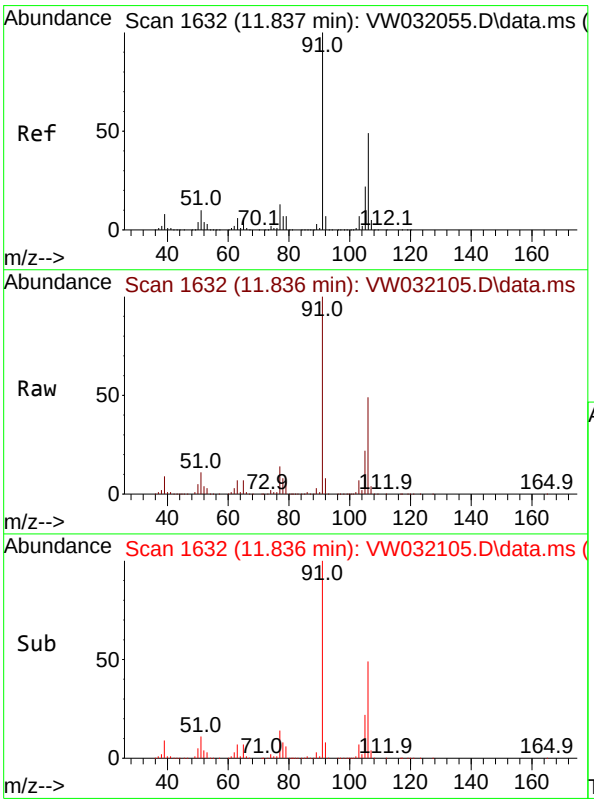
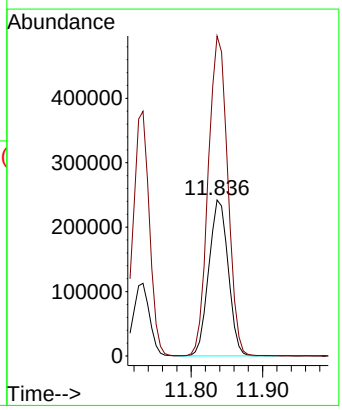
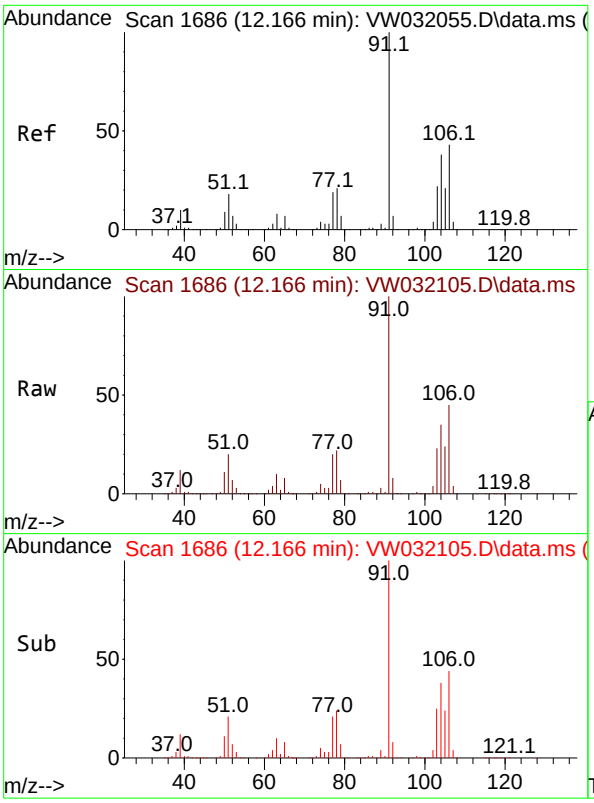


#68
m/p-Xylenes
Concen: 98.314 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:106 Resp: 455888

Ion	Ratio	Lower	Upper
106	100		
91	206.4	162.2	243.2

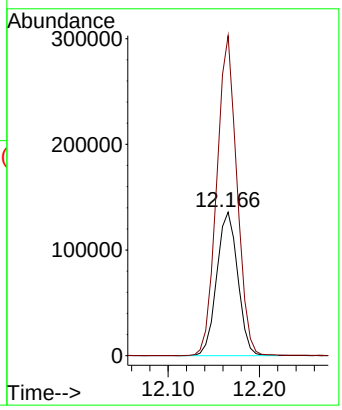




#69
o-Xylene
Concen: 50.609 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:106 Resp: 21690

Ion	Ratio	Lower	Upper
106	100		
91	215.1	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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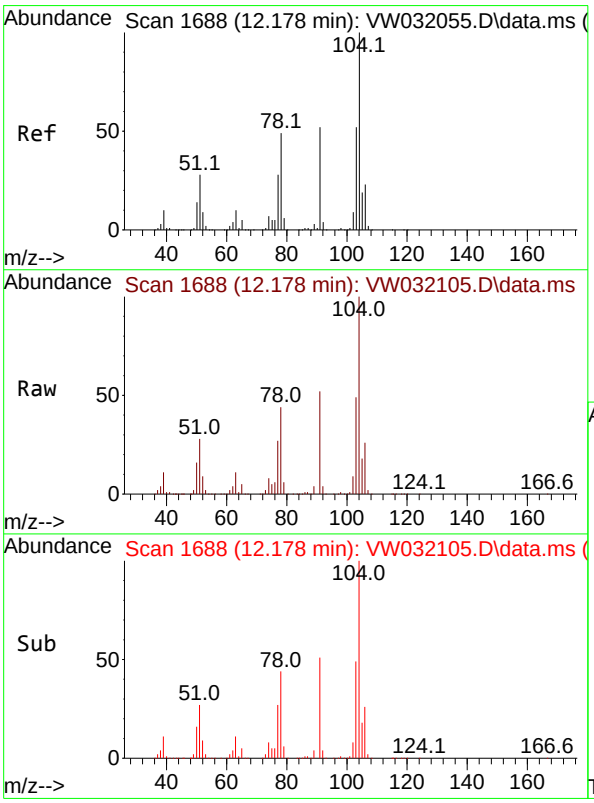
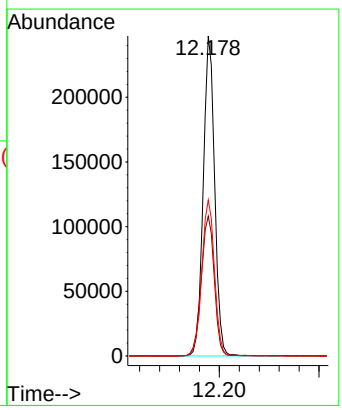
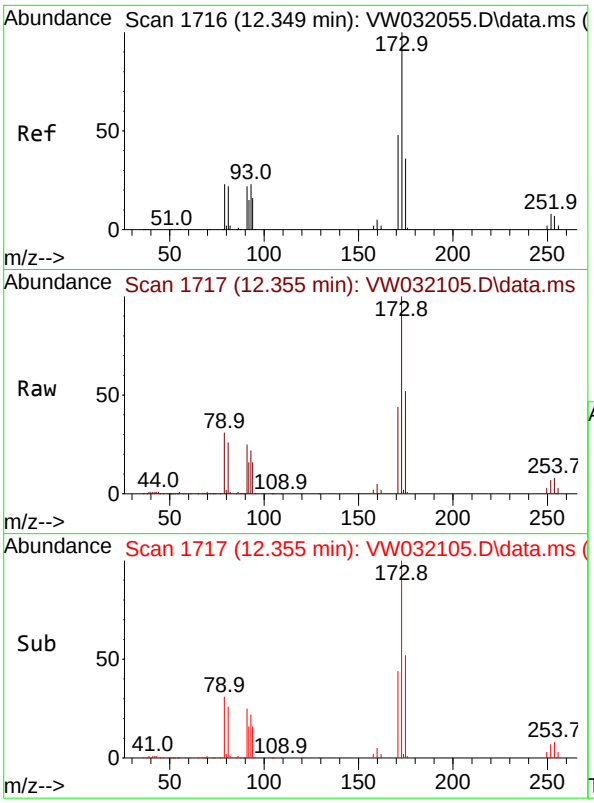


#70
Styrene
Concen: 51.563 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:104 Resp: 392538

Ion	Ratio	Lower	Upper
104	100		
78	50.0	41.2	61.8
103	54.2	43.8	65.8

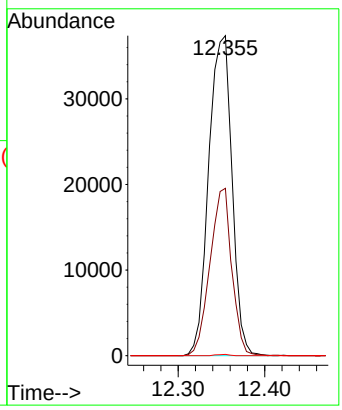




#71
Bromoform
Concen: 55.047 ug/l
RT: 12.355 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:173 Resp: 6969

Ion	Ratio	Lower	Upper
173	100		
175	49.1	22.9	68.7
254	0.2	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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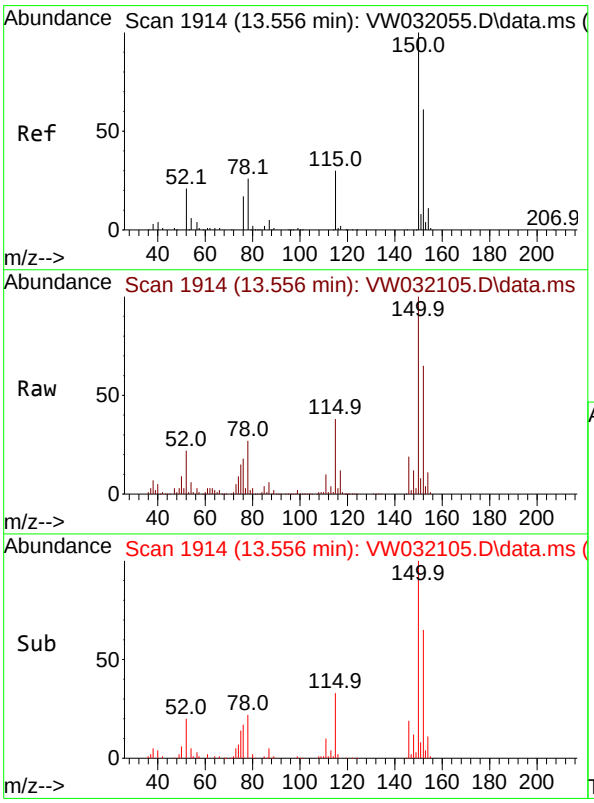
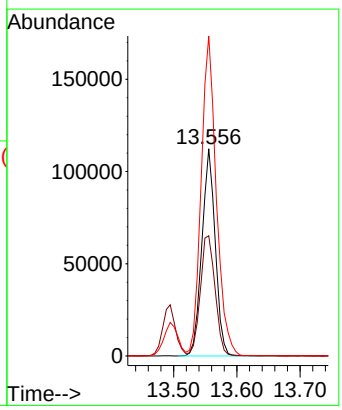
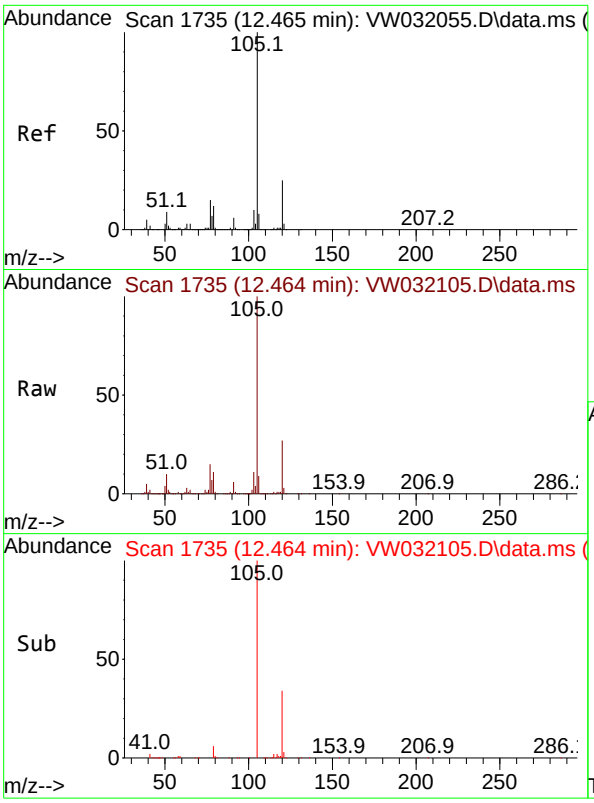


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:152 Resp: 166040

Ion	Ratio	Lower	Upper
152	100		
115	63.7	32.6	97.8
150	174.1	0.0	359.4

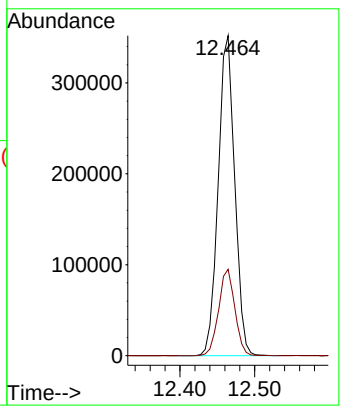




#73
Isopropylbenzene
Concen: 46.544 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:105 Resp: 54008

Ion	Ratio	Lower	Upper
105	100		
120	26.6	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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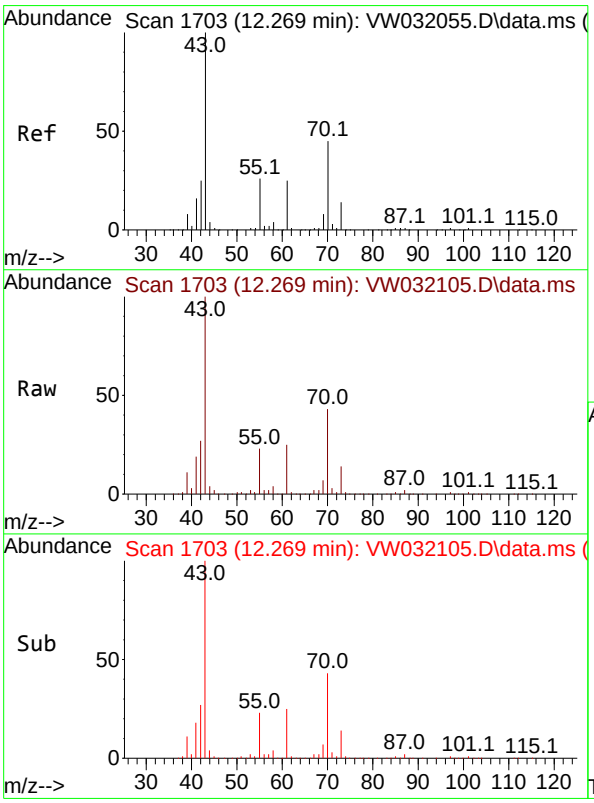
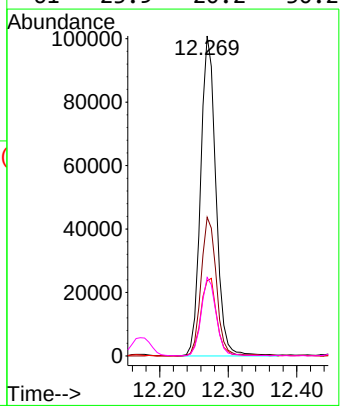
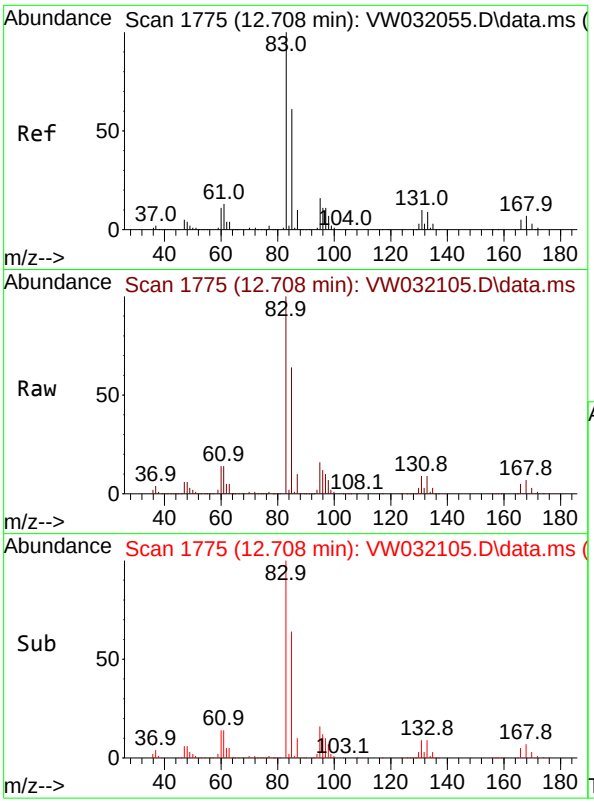


#74
N-amyl acetate
Concen: 47.086 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 156756

Ion	Ratio	Lower	Upper
43	100		
70	43.4	37.0	55.4
55	25.1	21.1	31.7
61	23.9	20.2	30.2





#75
1,1,2,2-Tetrachloroethane
Concen: 47.526 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 83 Resp: 13094

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.7	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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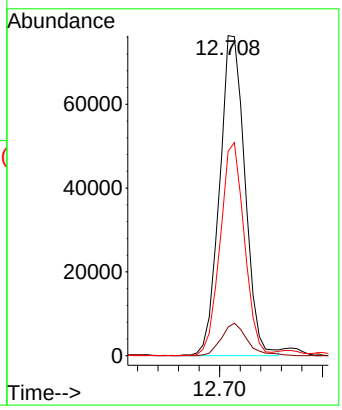
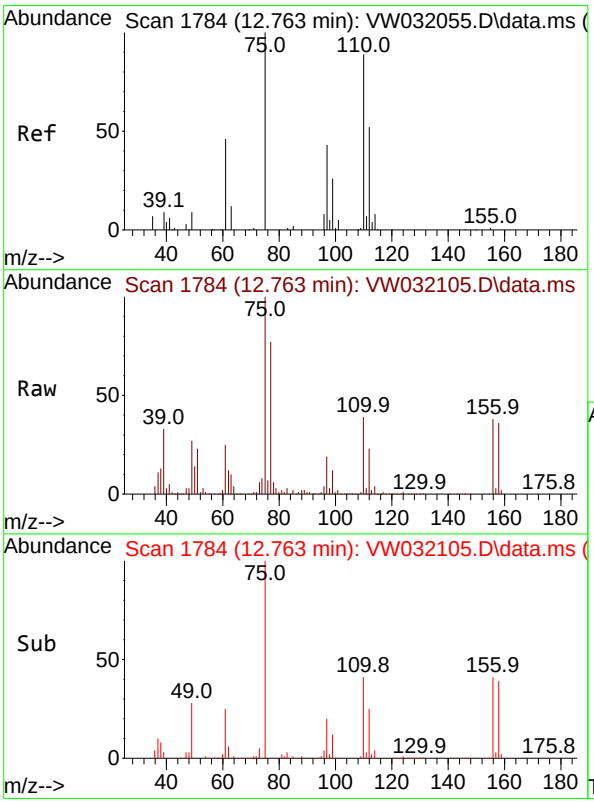
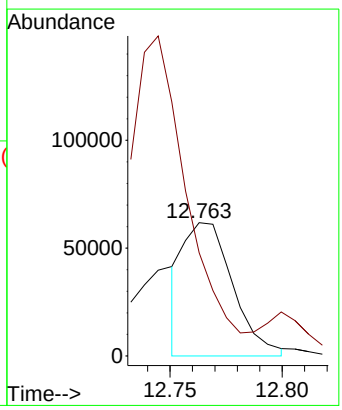


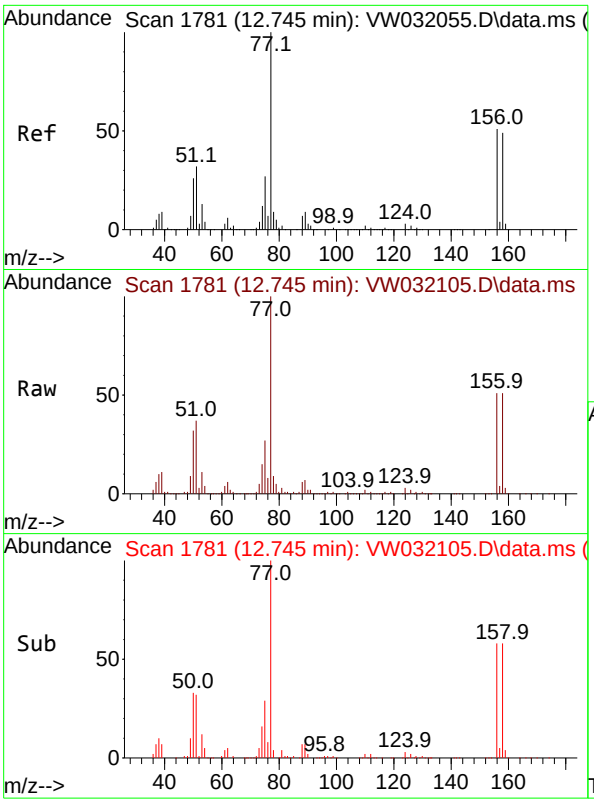


#76
1,2,3-Trichloropropane
Concen: 42.291 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 95304

Ion	Ratio	Lower	Upper
75	100		
77	286.6	123.5	370.5





#77
Bromobenzene
Concen: 47.862 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:156 Resp: 13264

Ion	Ratio	Lower	Upper
156	100		
77	205.9	108.7	326.3
158	98.2	48.3	144.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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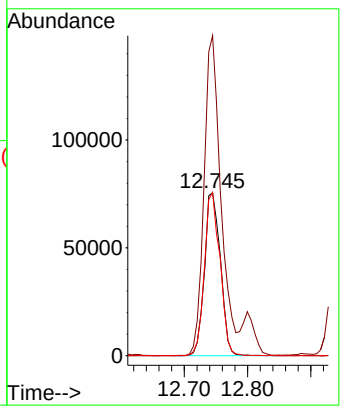
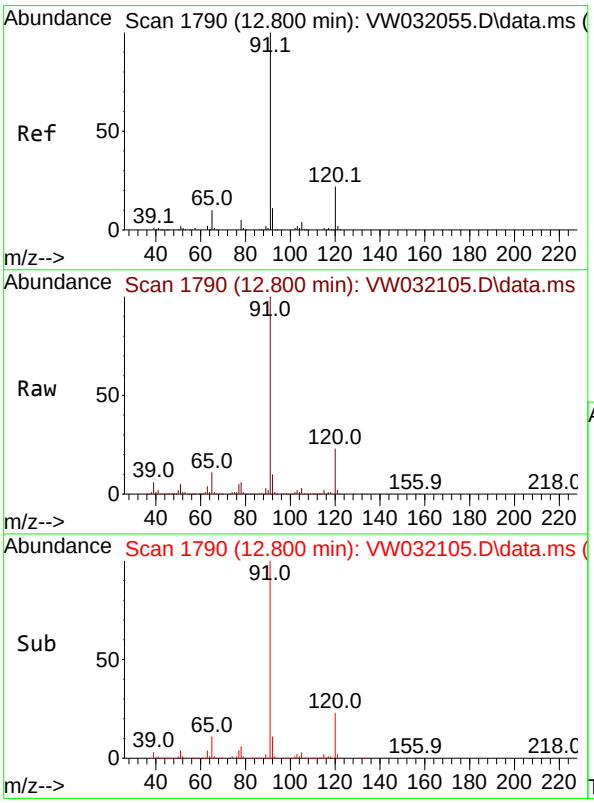
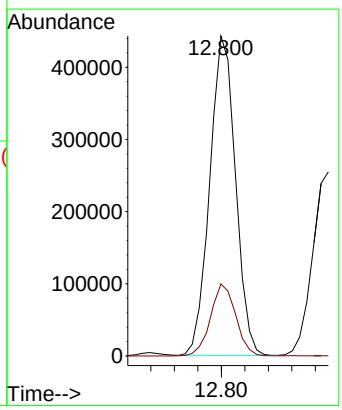


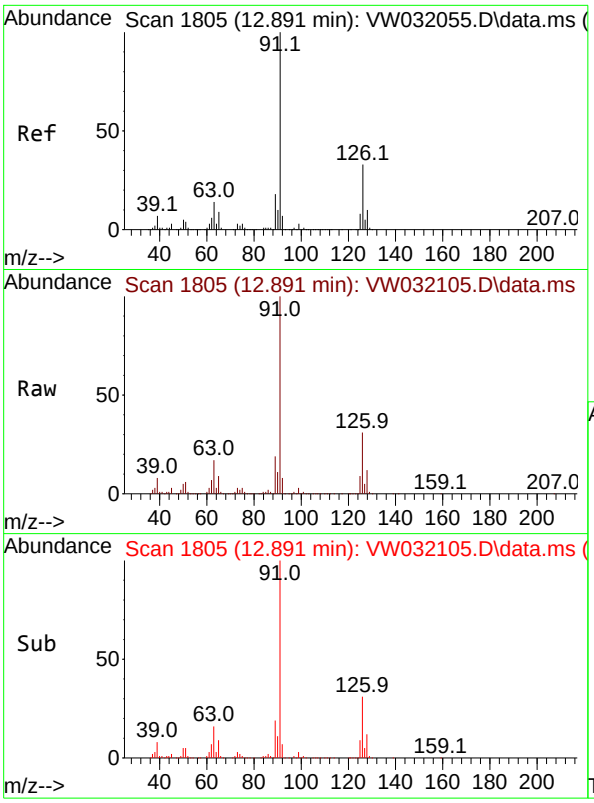


#78
n-propylbenzene
Concen: 47.233 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 674775

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3





#79
2-Chlorotoluene
Concen: 46.044 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 40596

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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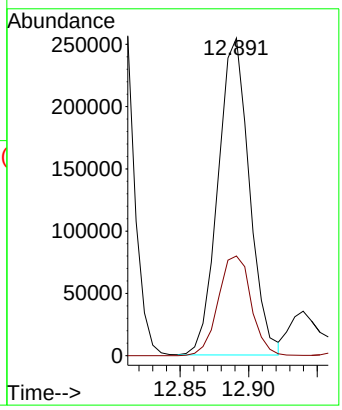
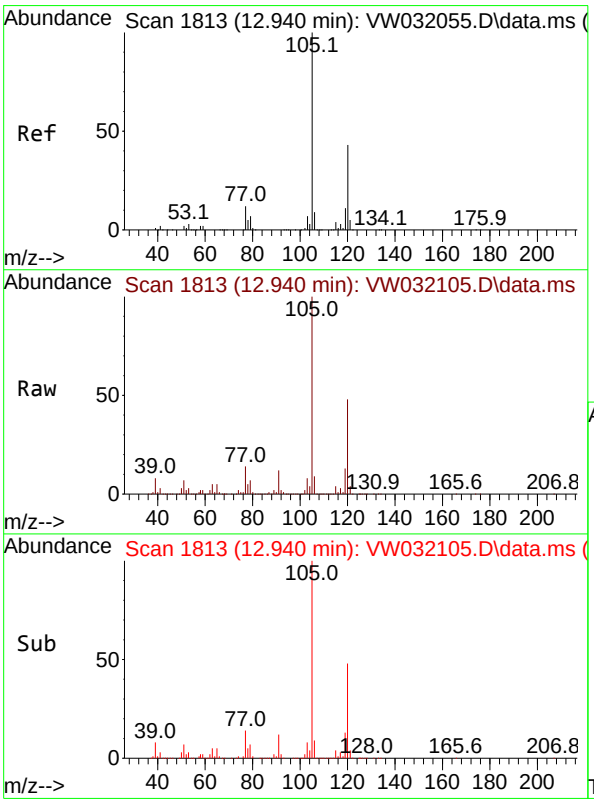
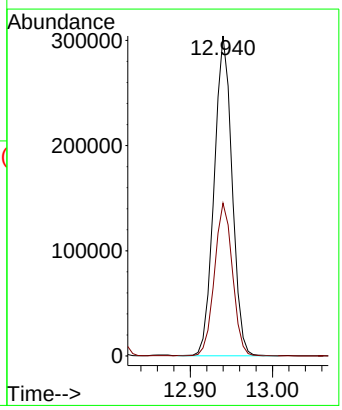


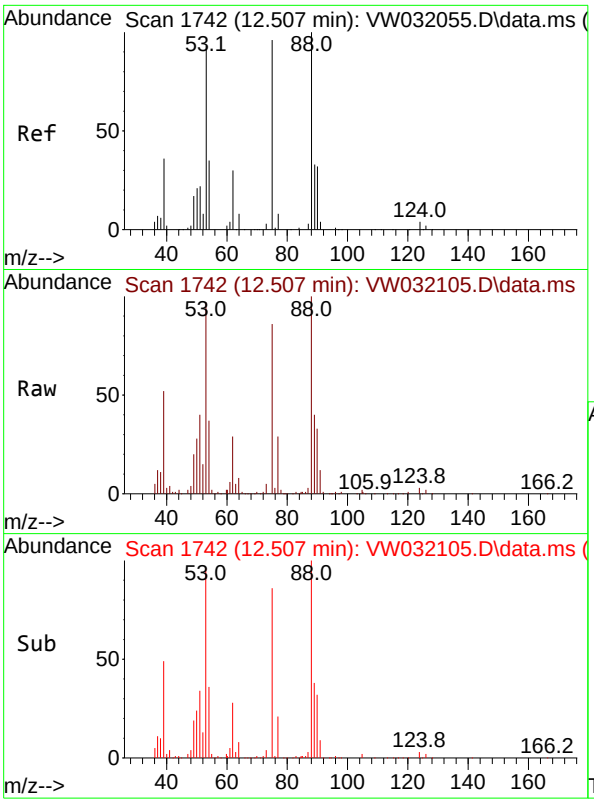


#80
1,3,5-Trimethylbenzene
Concen: 46.706 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:105 Resp: 460118

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 39.765 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 3461

Ion	Ratio	Lower	Upper
75	100		
53	114.9	81.0	121.6
89	48.3	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
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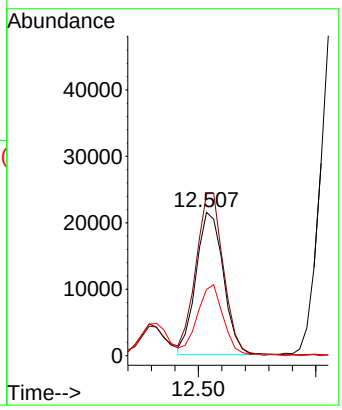
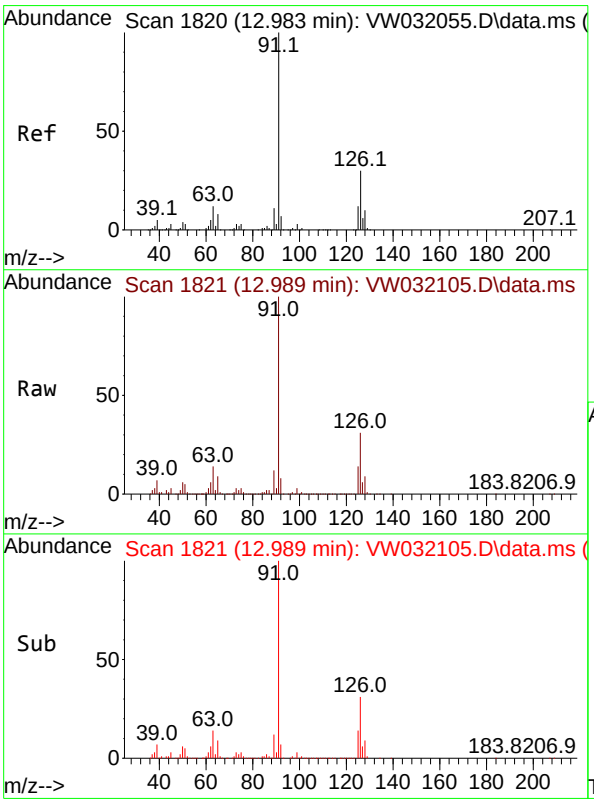
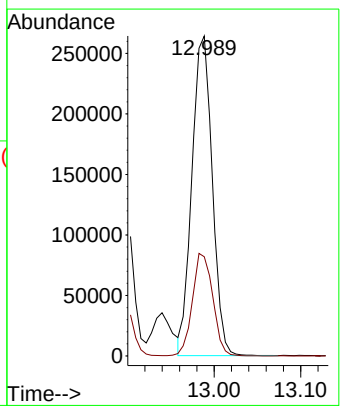


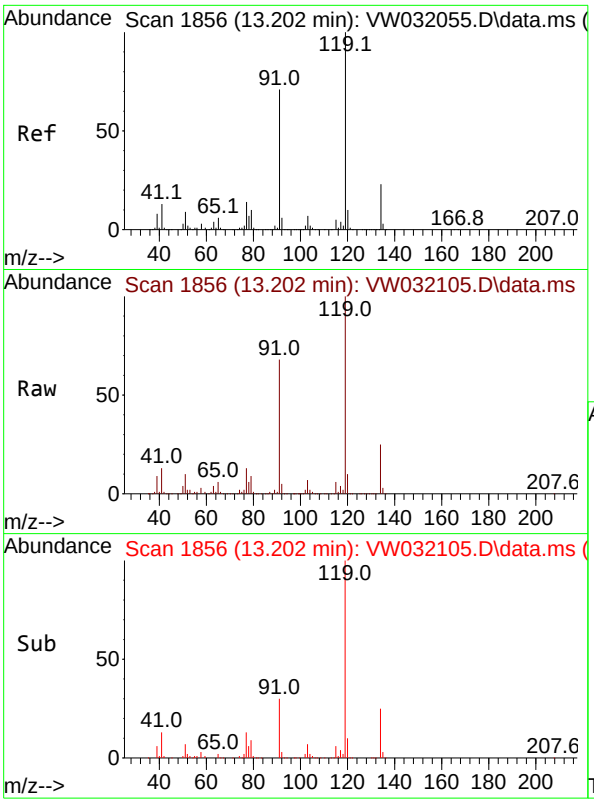


#82
4-Chlorotoluene
Concen: 46.038 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 431266

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.5	46.5

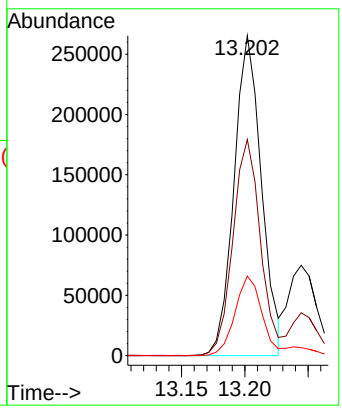




#83
tert-Butylbenzene
Concen: 49.066 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:119 Resp: 40115

Ion	Ratio	Lower	Upper
119	100		
91	67.3	35.3	105.9
134	24.7	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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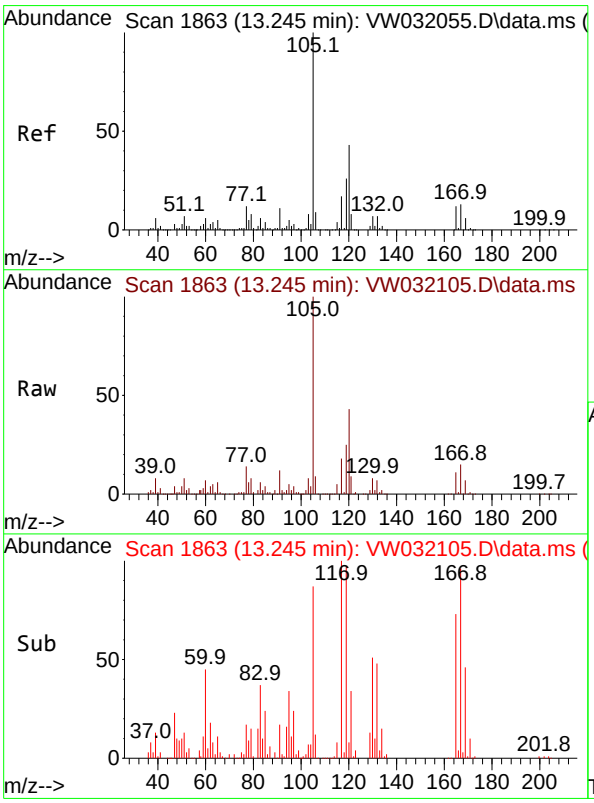
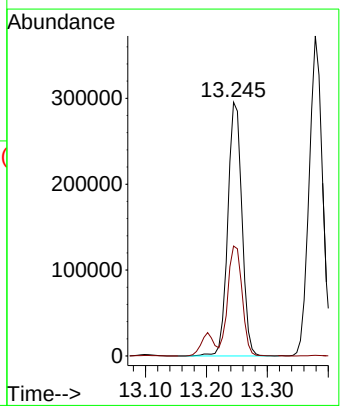
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

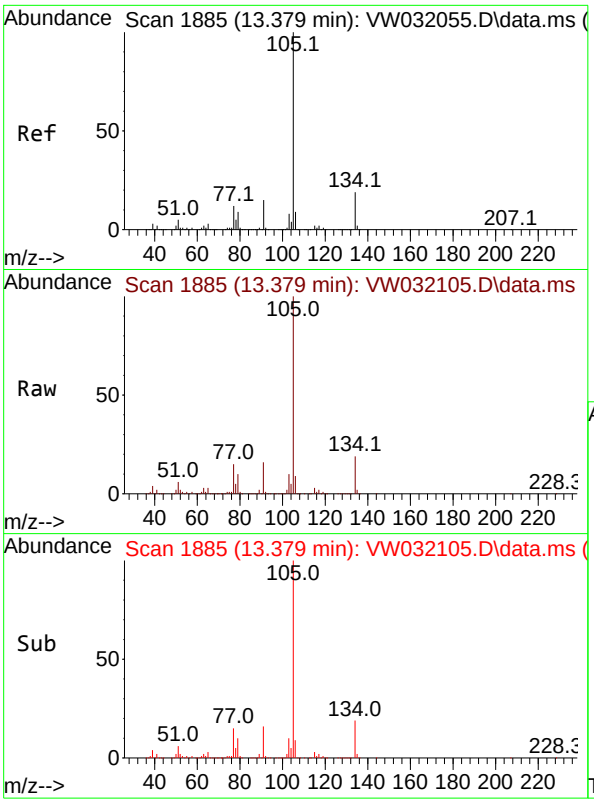


#84
1,2,4-Trimethylbenzene
Concen: 47.371 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:105 Resp: 475052

Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.6	64.8





#85
sec-Butylbenzene
Concen: 45.955 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

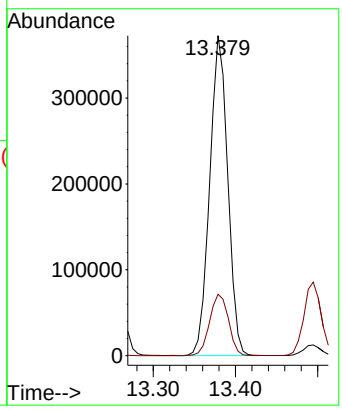
Tgt Ion:105 Resp: 56805

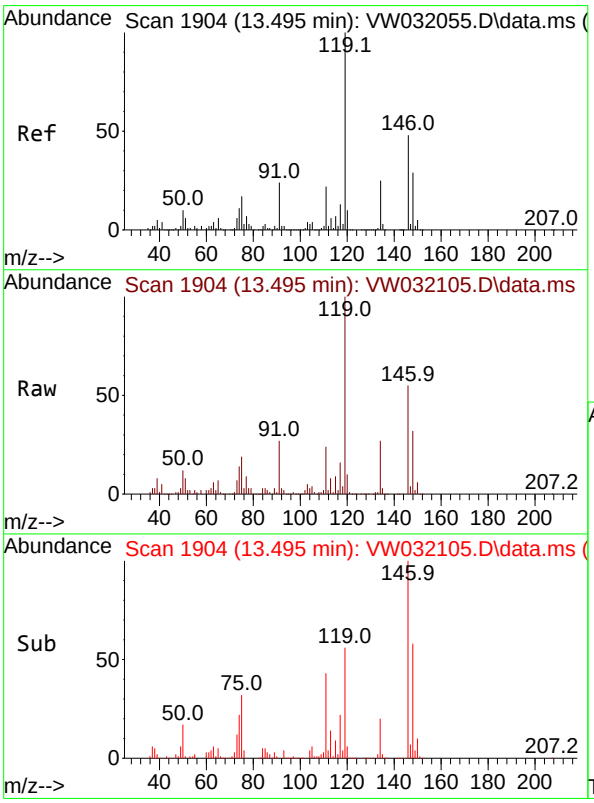
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

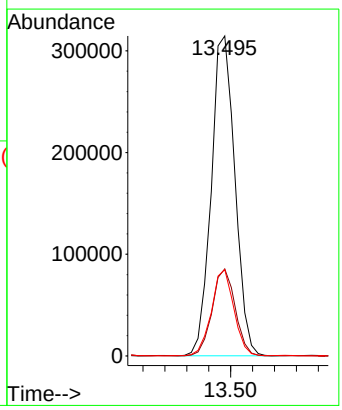


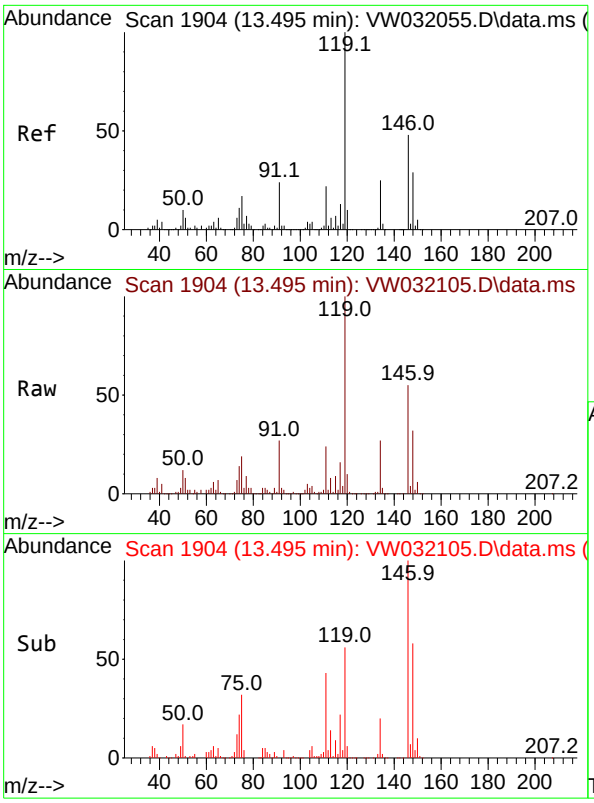


#86
p-Isopropyltoluene
Concen: 45.874 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:119 Resp: 472729

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.4	37.0
91	25.4	12.1	36.3

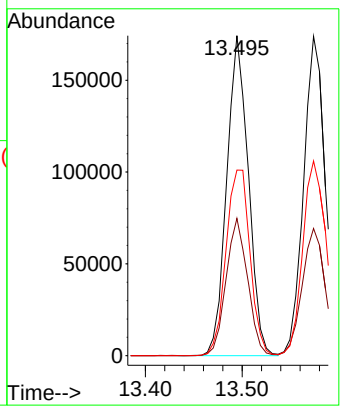




#87
1,3-Dichlorobenzene
Concen: 49.021 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:146 Resp: 27034

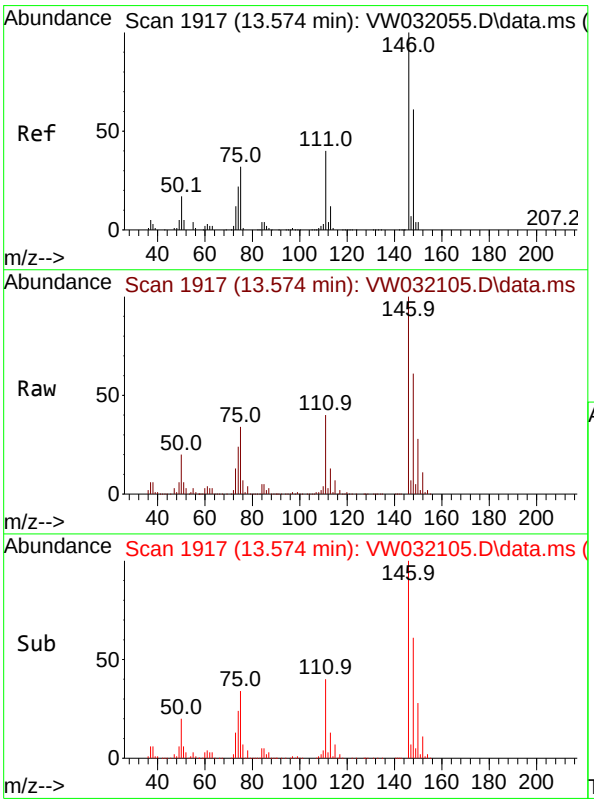
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.2	63.6
148	64.5	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

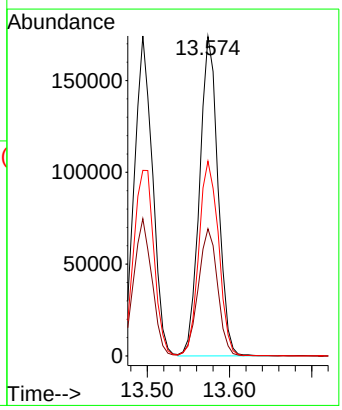
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

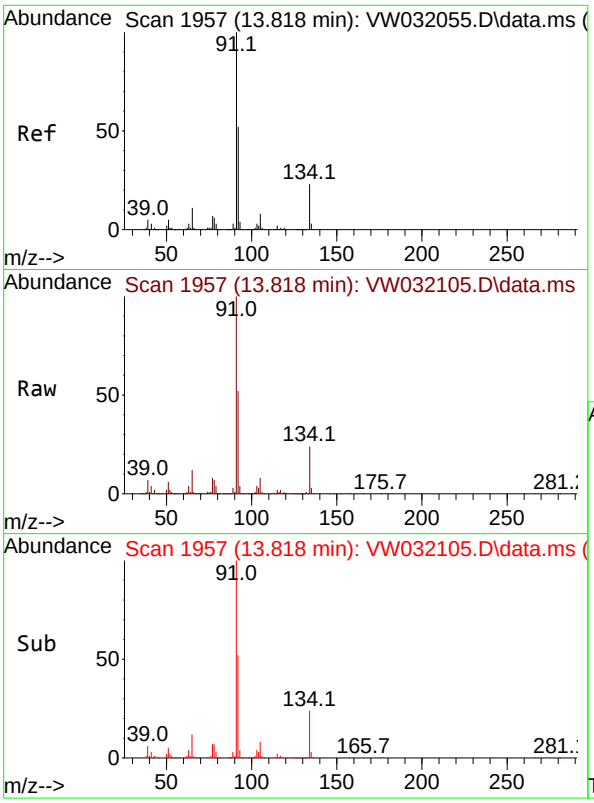


#88
1,4-Dichlorobenzene
Concen: 48.665 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:146 Resp: 271213

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.6	64.6
148	65.1	32.0	96.2

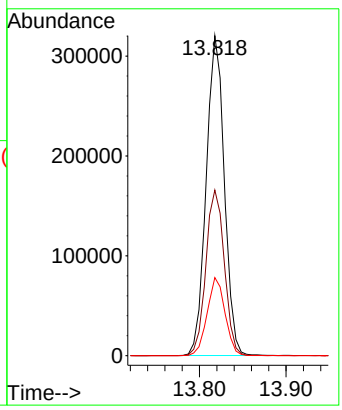




#89
n-Butylbenzene
Concen: 46.594 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 46646

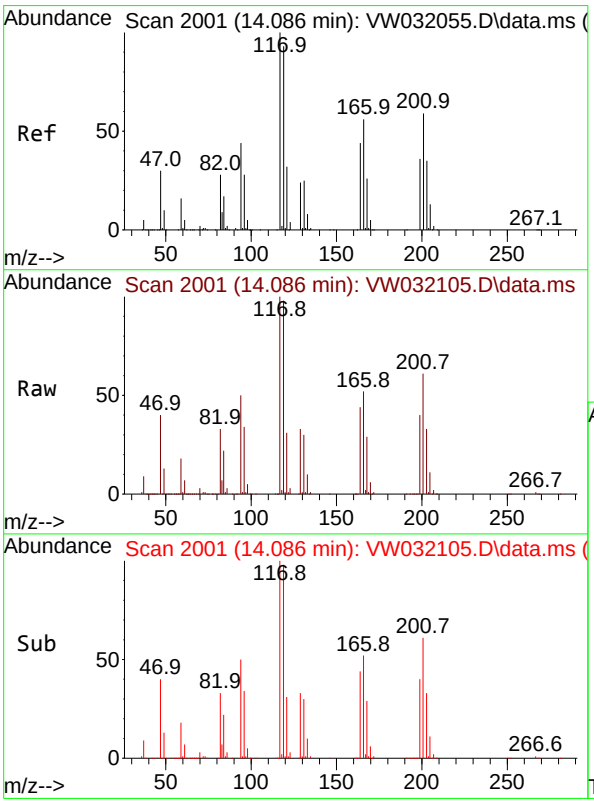
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.7	80.1
134	24.2	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

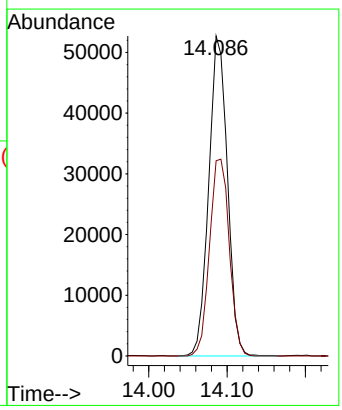
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

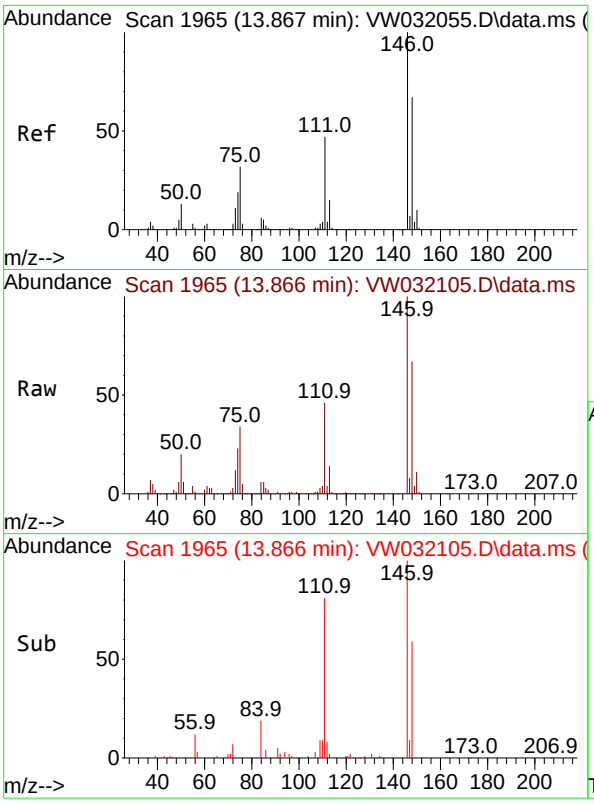


#90
Hexachloroethane
Concen: 46.262 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:117 Resp: 87184

Ion	Ratio	Lower	Upper
117	100		
201	65.1	30.9	92.5

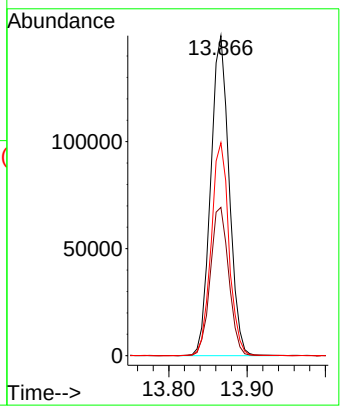




#91
1,2-Dichlorobenzene
Concen: 48.837 ug/l
RT: 13.866 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:146 Resp: 24396

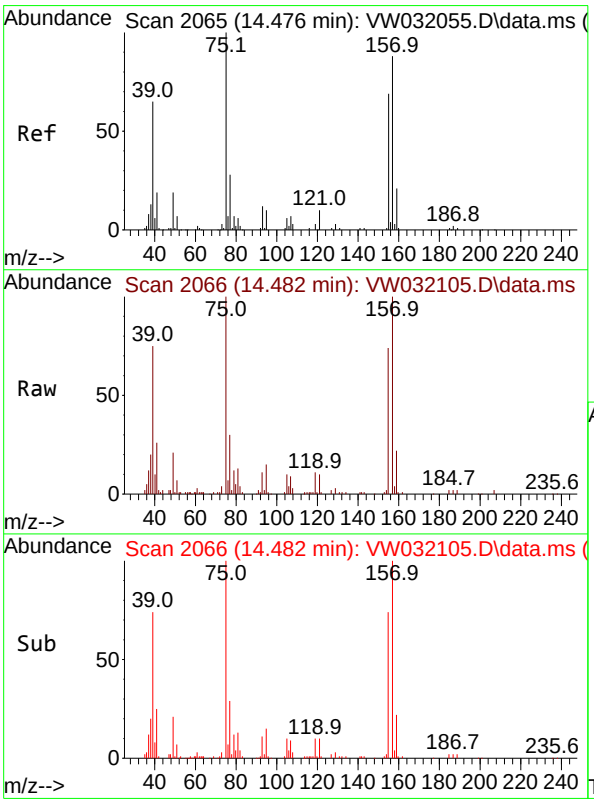
Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.1	69.3
148	64.4	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

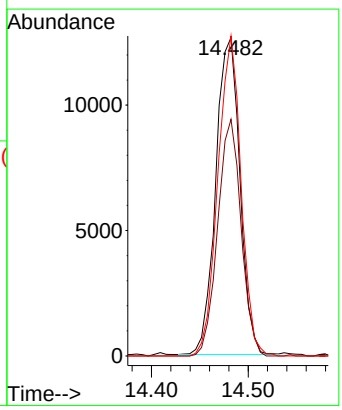
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

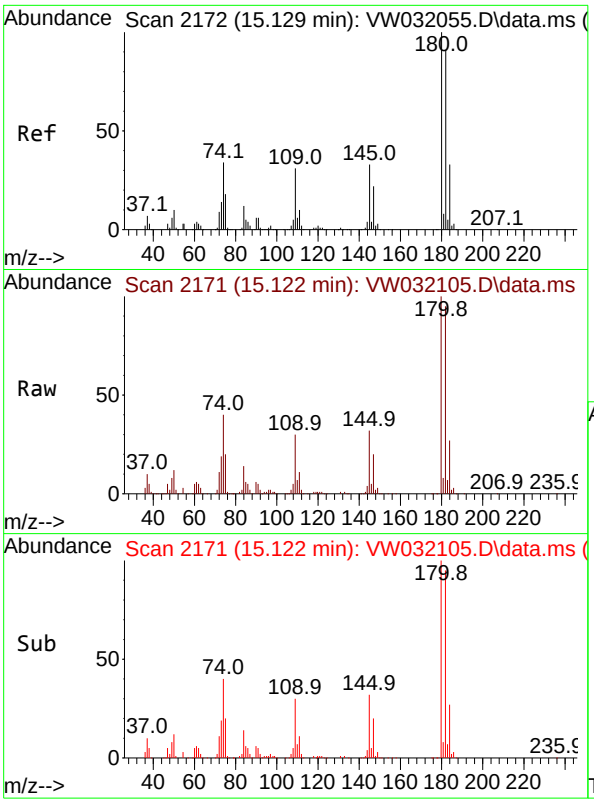


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.641 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 21865

Ion	Ratio	Lower	Upper
75	100		
155	72.5	35.2	105.6
157	96.7	47.5	142.6





#93
1,2,4-Trichlorobenzene
Concen: 48.861 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

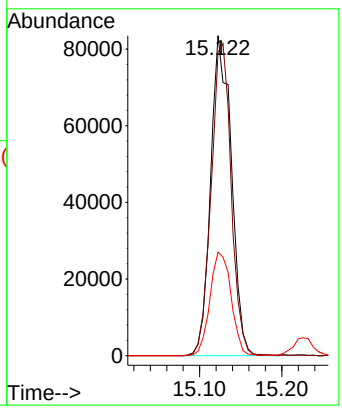
Tgt Ion:180 Resp: 14601

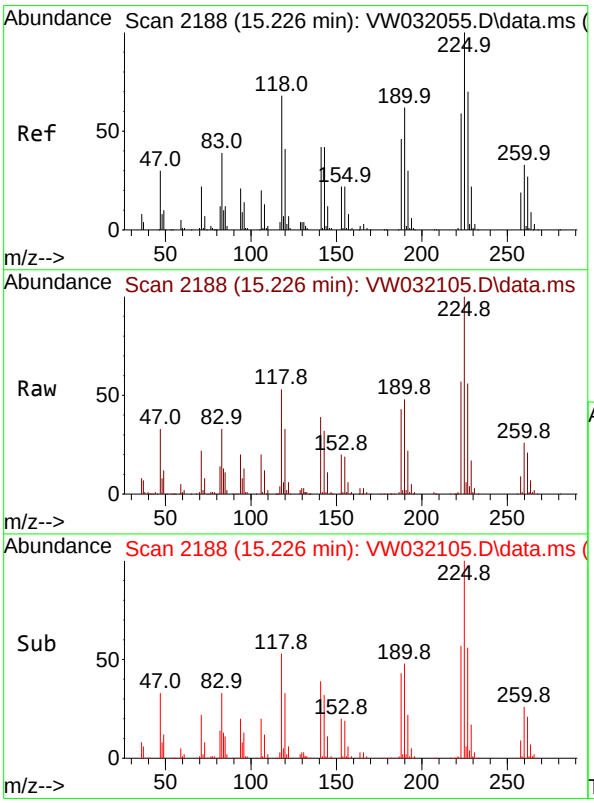
Ion	Ratio	Lower	Upper
180	100		
182	94.2	49.0	147.0
145	33.1	17.3	51.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

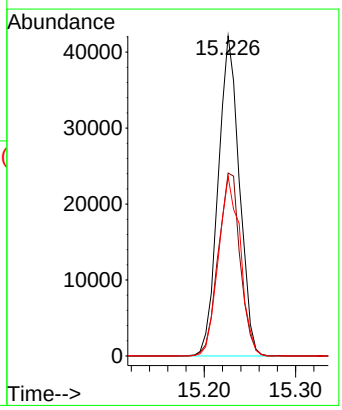


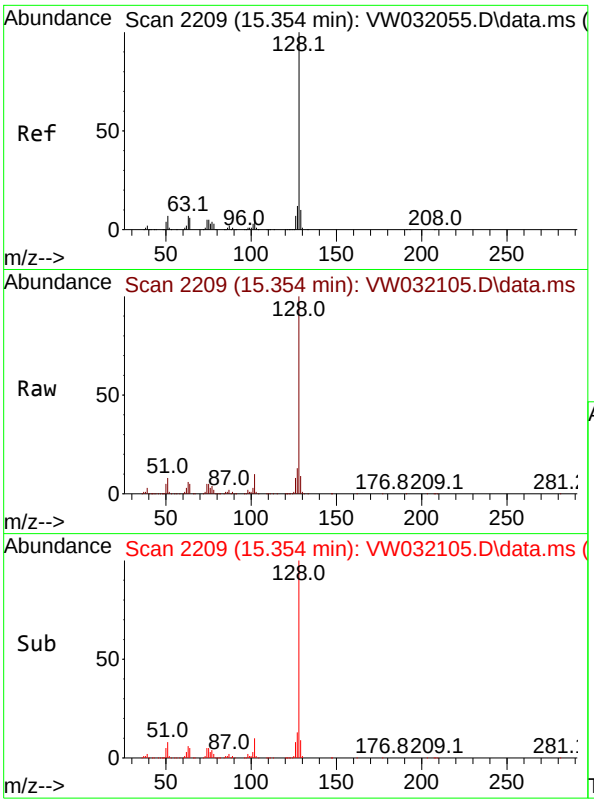


#94
Hexachlorobutadiene
Concen: 50.817 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:225 Resp: 67884

Ion	Ratio	Lower	Upper
225	100		
223	59.2	31.8	95.3
227	58.1	33.5	100.5

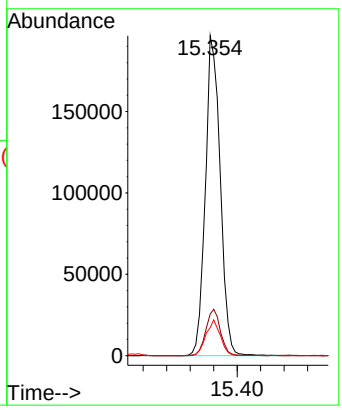




#95
Naphthalene
Concen: 47.200 ug/l
RT: 15.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:128 Resp: 34562

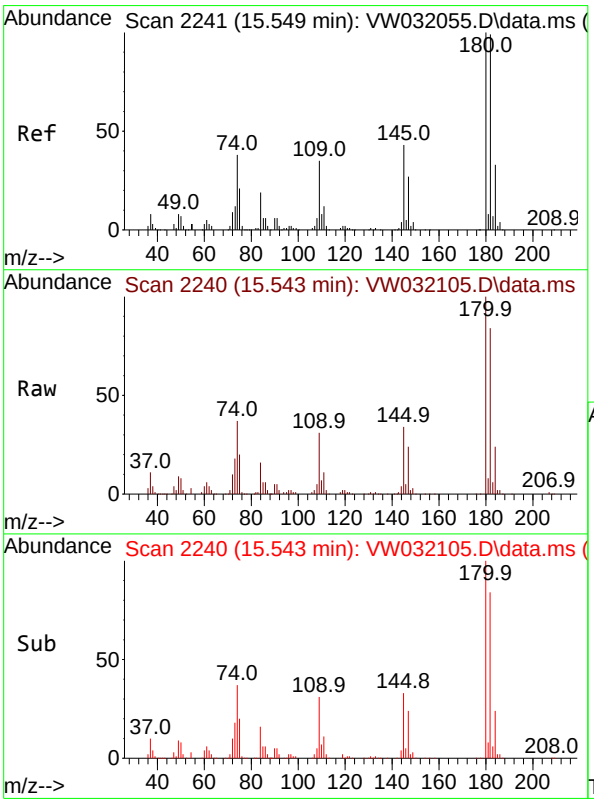
Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.5	15.7
129	10.9	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

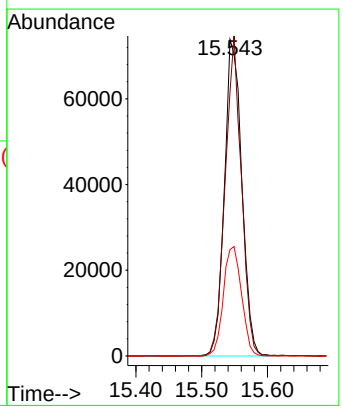
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.054 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:180 Resp: 136101

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.0	138.0
145	36.0	19.2	57.6



Sample Results: **VW032105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	0.358	0.320	10.6	82	0.00
3	P	Chloromethane	0.482	0.409	15.1	80	0.00
4	C	Vinyl Chloride	0.583	0.500	14.2#	81	0.00
5	T	Bromomethane	0.437	0.428	2.1	89	0.00
6	T	Chloroethane	0.386	0.359	7.0	84	0.00
7	T	Trichlorofluoromethane	0.467	0.483	-3.4	89	0.00
8	T	Diethyl Ether	0.382	0.392	-2.6	88	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.543	1.5	90	0.00
10	T	Methyl Iodide	0.781	0.753	3.6	86	0.00
11	T	Tert butyl alcohol	0.047	0.039	17.0	66	0.00
12	CM	1,1-Dichloroethene	0.606	0.595	1.8#	89	0.00
13	T	Acrolein	0.075	0.038	49.3#	46#	0.00
14	T	Allyl chloride	0.883	0.702	20.5	70	0.00
15	T	Acrylonitrile	0.182	0.167	8.2	75	0.00
16	T	Acetone	0.167	0.155	7.2	81	0.00
17	T	Carbon Disulfide	1.628	1.296	20.4	71	0.00
18	T	Methyl Acetate	0.530	0.562	-6.0	87	0.00
19	T	Methyl tert-butyl Ether	1.068	1.004	6.0	78	0.00
20	T	Methylene Chloride	0.774	0.649	16.1	82	0.00
21	T	trans-1,2-Dichloroethene	0.644	0.594	7.8	81	0.00
22	T	Diisopropyl ether	1.860	1.755	5.6	80	0.00
23	T	Vinyl Acetate	1.222	1.119	8.4	74	0.00
24	P	1,1-Dichloroethane	1.189	1.090	8.3	81	0.00
25	T	2-Butanone	0.238	0.223	6.3	75	0.00
26	T	2,2-Dichloropropane	0.596	0.466	21.8	69	0.00
27	T	cis-1,2-Dichloroethene	0.752	0.737	2.0	84	0.00
28	T	Bromochloromethane	0.541	0.553	-2.2	87	0.00
29	T	Tetrahydrofuran	0.157	0.150	4.5	75	0.00
30	C	Chloroform	1.260	1.273	-1.0#	88	0.00
31	T	Cyclohexane	1.031	0.799	22.5	71	0.00
32	T	1,1,1-Trichloroethane	0.915	0.845	7.7	83	0.00
33	S	1,2-Dichloroethane-d4	0.723	0.767	-6.1	92	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35	S	Dibromofluoromethane	0.323	0.350	-8.4	90	0.00
36	T	1,1-Dichloropropene	0.455	0.438	3.7	78	0.00
37	T	Ethyl Acetate	0.268	0.273	-1.9	78	0.00
38	T	Carbon Tetrachloride	0.439	0.449	-2.3	84	0.00
39	T	Methylcyclohexane	0.555	0.498	10.3	72	0.00
40	TM	Benzene	1.415	1.412	0.2	80	0.00
41	T	Methacrylonitrile	0.152	0.148	2.6	74	0.00
42	TM	1,2-Dichloroethane	0.453	0.496	-9.5	89	0.00
43	T	Isopropyl Acetate	0.493	0.499	-1.2	77	0.00
44	TM	Trichloroethene	0.337	0.343	-1.8	85	0.00
45	C	1,2-Dichloropropane	0.342	0.340	0.6#	81	0.00
46	T	Dibromomethane	0.221	0.234	-5.9	86	0.00
47	T	Bromodichloromethane	0.509	0.543	-6.7	85	0.00
48	T	Methyl methacrylate	0.238	0.242	-1.7	76	0.00

Sample Results: **VW032105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.003	0.0	76	0.00
50	S	Toluene-d8	1.195	1.268	-6.1	85	0.00
51	T	4-Methyl-2-Pentanone	0.279	0.300	-7.5	80	0.00
52	CM	Toluene	0.892	0.913	-2.4#	82	0.00
53	T	t-1,3-Dichloropropene	0.476	0.465	2.3	76	0.00
54	T	cis-1,3-Dichloropropene	0.541	0.523	3.3	75	0.00
55	T	1,1,2-Trichloroethane	0.293	0.307	-4.8	84	0.00
56	T	Ethyl methacrylate	0.392	0.408	-4.1	78	0.00
57	T	1,3-Dichloropropane	0.511	0.519	-1.6	82	0.00
58	T	2-Chloroethyl Vinyl ether	0.217	0.235	-8.3	82	0.00
59	T	2-Hexanone	0.193	0.209	-8.3	79	0.00
60	T	Dibromochloromethane	0.335	0.360	-7.5	86	0.00
61	T	1,2-Dibromoethane	0.285	0.303	-6.3	85	0.00
62	S	4-Bromofluorobenzene	0.440	0.446	-1.4	81	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.289	0.328	-13.5	102	0.00
65	PM	Chlorobenzene	1.088	1.070	1.7	86	0.00
66	T	1,1,1,2-Tetrachloroethane	0.340	0.364	-7.1	93	0.00
67	C	Ethyl Benzene	1.843	1.846	-0.2#	85	0.00
68	T	m/p-Xylenes	0.711	0.699	1.7	83	0.00
69	T	o-Xylene	0.657	0.665	-1.2	84	0.00
70	T	Styrene	1.168	1.204	-3.1	86	0.00
71	P	Bromoform	0.194	0.214	-10.3	89	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73	T	Isopropylbenzene	3.494	3.253	6.9	83	0.00
74	T	N-amyl acetate	1.003	0.944	5.9	79	0.00
75	P	1,1,2,2-Tetrachloroethane	0.830	0.789	4.9	84	0.00
76	T	1,2,3-Trichloropropane	0.679	0.574	15.5	69	0.00
77	T	Bromobenzene	0.835	0.799	4.3	85	0.00
78	T	n-propylbenzene	4.302	4.064	5.5	84	0.00
79	T	2-Chlorotoluene	2.655	2.445	7.9	83	0.00
80	T	1,3,5-Trimethylbenzene	2.967	2.771	6.6	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.262	0.208	20.6	67	0.00
82	T	4-Chlorotoluene	2.821	2.597	7.9	83	0.00
83	T	tert-Butylbenzene	2.462	2.416	1.9	87	0.00
84	T	1,2,4-Trimethylbenzene	3.020	2.861	5.3	83	0.00
85	T	sec-Butylbenzene	3.722	3.421	8.1	82	0.00
86	T	p-Isopropyltoluene	3.103	2.847	8.3	80	0.00
87	T	1,3-Dichlorobenzene	1.661	1.628	2.0	86	0.00
88	T	1,4-Dichlorobenzene	1.678	1.633	2.7	91	0.00
89	T	n-Butylbenzene	3.015	2.809	6.8	82	0.00
90	T	Hexachloroethane	0.568	0.525	7.6	86	0.00
91	T	1,2-Dichlorobenzene	1.504	1.469	2.3	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.147	0.132	10.2	77	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.879	2.3	89	0.00
94	T	Hexachlorobutadiene	0.402	0.409	-1.7	98	0.00
95	T	Naphthalene	2.205	2.082	5.6	79	0.00

Sample Results: **VW032105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.819	0.820	-0.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VW032105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	50.000	44.771	10.5	82	0.00
3	P	Chloromethane	50.000	42.481	15.0	80	0.00
4	C	Vinyl Chloride	50.000	42.913	14.2#	81	0.00
5	T	Bromomethane	50.000	48.904	2.2	89	0.00
6	T	Chloroethane	50.000	46.574	6.9	84	0.00
7	T	Trichlorofluoromethane	50.000	51.784	-3.6	89	0.00
8	T	Diethyl Ether	50.000	51.265	-2.5	88	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.330	1.3	90	0.00
10	T	Methyl Iodide	50.000	48.234	3.5	86	0.00
11	T	Tert butyl alcohol	250.000	206.356	17.5	66	0.00
12	CM	1,1-Dichloroethene	50.000	49.059	1.9#	89	0.00
13	T	Acrolein	250.000	126.071	49.6#	46	0.00
14	T	Allyl chloride	50.000	39.755	20.5	70	0.00
15	T	Acrylonitrile	250.000	229.148	8.3	75	0.00
16	T	Acetone	250.000	232.009	7.2	81	0.00
17	T	Carbon Disulfide	50.000	39.816	20.4	71	0.00
18	T	Methyl Acetate	50.000	53.076	-6.2	87	0.00
19	T	Methyl tert-butyl Ether	50.000	46.982	6.0	78	0.00
20	T	Methylene Chloride	50.000	41.890	16.2	82	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.116	7.8	81	0.00
22	T	Diisopropyl ether	50.000	47.159	5.7	80	0.00
23	T	Vinyl Acetate	250.000	229.096	8.4	74	0.00
24	P	1,1-Dichloroethane	50.000	45.846	8.3	81	0.00
25	T	2-Butanone	250.000	234.553	6.2	75	0.00
26	T	2,2-Dichloropropane	50.000	39.077	21.8	69	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.023	2.0	84	0.00
28	T	Bromochloromethane	50.000	51.150	-2.3	87	0.00
29	T	Tetrahydrofuran	250.000	239.596	4.2	75	0.00
30	C	Chloroform	50.000	50.525	-1.0#	88	0.00
31	T	Cyclohexane	50.000	38.784	22.4	71	0.00
32	T	1,1,1-Trichloroethane	50.000	46.176	7.6	83	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.028	-6.1	92	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35	S	Dibromofluoromethane	50.000	54.222	-8.4	90	0.00
36	T	1,1-Dichloropropene	50.000	48.076	3.8	78	0.00
37	T	Ethyl Acetate	50.000	50.898	-1.8	78	0.00
38	T	Carbon Tetrachloride	50.000	51.129	-2.3	84	0.00
39	T	Methylcyclohexane	50.000	44.891	10.2	72	0.00
40	TM	Benzene	50.000	49.865	0.3	80	0.00
41	T	Methacrylonitrile	50.000	48.528	2.9	74	0.00
42	TM	1,2-Dichloroethane	50.000	54.726	-9.5	89	0.00
43	T	Isopropyl Acetate	50.000	50.564	-1.1	77	0.00
44	TM	Trichloroethene	50.000	50.915	-1.8	85	0.00
45	C	1,2-Dichloropropane	50.000	49.769	0.5#	81	0.00
46	T	Dibromomethane	50.000	53.105	-6.2	86	0.00
47	T	Bromodichloromethane	50.000	53.359	-6.7	85	0.00
48	T	Methyl methacrylate	50.000	50.886	-1.8	76	0.00

Sample Results: **VW032105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1041.083	-4.1	76	0.00
50	S	Toluene-d8	50.000	53.076	-6.2	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	269.316	-7.7	80	0.00
52	CM	Toluene	50.000	51.219	-2.4#	82	0.00
53	T	t-1,3-Dichloropropene	50.000	48.849	2.3	76	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.366	3.3	75	0.00
55	T	1,1,2-Trichloroethane	50.000	52.415	-4.8	84	0.00
56	T	Ethyl methacrylate	50.000	51.993	-4.0	78	0.00
57	T	1,3-Dichloropropane	50.000	50.807	-1.6	82	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	271.010	-8.4	82	0.00
59	T	2-Hexanone	250.000	270.484	-8.2	79	0.00
60	T	Dibromochloromethane	50.000	53.691	-7.4	86	0.00
61	T	1,2-Dibromoethane	50.000	53.107	-6.2	85	0.00
62	S	4-Bromofluorobenzene	50.000	50.684	-1.4	81	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	56.838	-13.7	102	0.00
65	PM	Chlorobenzene	50.000	49.157	1.7	86	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.648	-7.3	93	0.00
67	C	Ethyl Benzene	50.000	50.069	-0.1#	85	0.00
68	T	m/p-Xylenes	100.000	98.314	1.7	83	0.00
69	T	o-Xylene	50.000	50.609	-1.2	84	0.00
70	T	Styrene	50.000	51.563	-3.1	86	0.00
71	P	Bromoform	50.000	55.047	-10.1	89	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	46.544	6.9	83	0.00
74	T	N-amyl acetate	50.000	47.086	5.8	79	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.526	4.9	84	0.00
76	T	1,2,3-Trichloropropane	50.000	42.291	15.4	69	0.00
77	T	Bromobenzene	50.000	47.862	4.3	85	0.00
78	T	n-propylbenzene	50.000	47.233	5.5	84	0.00
79	T	2-Chlorotoluene	50.000	46.044	7.9	83	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.706	6.6	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	39.765	20.5	67	0.00
82	T	4-Chlorotoluene	50.000	46.038	7.9	83	0.00
83	T	tert-Butylbenzene	50.000	49.066	1.9	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.371	5.3	83	0.00
85	T	sec-Butylbenzene	50.000	45.955	8.1	82	0.00
86	T	p-Isopropyltoluene	50.000	45.874	8.3	80	0.00
87	T	1,3-Dichlorobenzene	50.000	49.021	2.0	86	0.00
88	T	1,4-Dichlorobenzene	50.000	48.665	2.7	91	0.00
89	T	n-Butylbenzene	50.000	46.594	6.8	82	0.00
90	T	Hexachloroethane	50.000	46.262	7.5	86	0.00
91	T	1,2-Dichlorobenzene	50.000	48.837	2.3	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.641	10.7	77	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.861	2.3	89	0.00
94	T	Hexachlorobutadiene	50.000	50.817	-1.6	98	0.00
95	T	Naphthalene	50.000	47.200	5.6	79	0.00

Sample Results: **VW032105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.054	-0.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023111.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/15/2025 08:39
Lab File ID: VY023111.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.332		-18.63	20
Chloromethane	0.661	0.651	0.1	-1.51	20
Vinyl Chloride	0.817	0.876		7.22	20
Bromomethane	0.610	0.659		8.03	20
Chloroethane	0.543	0.599		10.31	20
Trichlorofluoromethane	0.994	0.982		-1.21	20
1,1,2-Trichlorotrifluoroethane	0.490	0.484		-1.22	20
1,1-Dichloroethene	0.482	0.471		-2.28	20
Acetone	0.103	0.116		12.62	20
Carbon Disulfide	1.571	1.520		-3.25	20
Methyl tert-butyl Ether	1.249	1.209		-3.2	20
Methyl Acetate	0.307	0.297		-3.26	20
Methylene Chloride	0.620	0.543		-12.42	20
trans-1,2-Dichloroethene	0.541	0.549		1.48	20
1,1-Dichloroethane	0.942	0.968	0.1	2.76	20
Cyclohexane	0.888	0.845		-4.84	20
2-Butanone	0.140	0.143		2.14	20
Carbon Tetrachloride	0.483	0.506		4.76	20
cis-1,2-Dichloroethene	0.626	0.643		2.72	20
Bromochloromethane	0.374	0.395		5.61	20
Chloroform	0.971	1.017		4.74	20
1,1,1-Trichloroethane	0.862	0.888		3.02	20
Methylcyclohexane	0.586	0.583		-0.51	20
Benzene	1.370	1.455		6.2	20
1,2-Dichloroethane	0.356	0.372		4.49	20
Trichloroethene	0.354	0.366		3.39	20
1,2-Dichloropropane	0.315	0.335		6.35	20
Bromodichloromethane	0.466	0.496		6.44	20
4-Methyl-2-Pentanone	0.195	0.194		-0.51	20
Toluene	0.870	0.928		6.67	20
t-1,3-Dichloropropene	0.422	0.434		2.84	20
cis-1,3-Dichloropropene	0.499	0.523		4.81	20
1,1,2-Trichloroethane	0.242	0.252		4.13	20
2-Hexanone	0.133	0.135		1.5	20
Dibromochloromethane	0.320	0.332		3.75	20
1,2-Dibromoethane	0.228	0.230		0.88	20
Tetrachloroethene	0.446	0.469		5.16	20
Chlorobenzene	1.079	1.142	0.3	5.84	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023111.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2820
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/15/2025 08:39
Lab File ID:	VY023111.D	Init. Calib. Date(s):	08/12/2025 08/12/2025
Heated Purge: (Y/N)	Y	Init. Calib. Time(s):	14:54 16:47

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	2.009		8.24	20
m/p-Xylenes	0.725	0.785		8.28	20
o-Xylene	0.679	0.736		8.4	20
Styrene	1.110	1.238		11.53	20
Bromoform	0.214	0.212	0.1	-0.94	20
Isopropylbenzene	3.529	3.734		5.81	20
1,1,2,2-Tetrachloroethane	0.603	0.595	0.3	-1.33	20
1,3-Dichlorobenzene	1.660	1.748		5.3	20
1,4-Dichlorobenzene	1.647	1.696		2.97	20
1,2-Dichlorobenzene	1.456	1.499		2.95	20
1,2-Dibromo-3-Chloropropane	0.094	0.090		-4.26	20
1,2,4-Trichlorobenzene	0.861	0.793		-7.9	20
1,2,3-Trichlorobenzene	0.742	0.679		-8.49	20
1,2-Dichloroethane-d4	0.477	0.480		0.63	20
Dibromofluoromethane	0.299	0.309		3.34	20
Toluene-d8	1.169	1.206		3.16	20
4-Bromofluorobenzene	0.376	0.376		0	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	443799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	696916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	607348	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	306948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	212960	50.349	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.700%			
35) Dibromofluoromethane	7.634	113	215688	51.722	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.440%			
50) Toluene-d8	10.103	98	840812	51.612	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.220%			
62) 4-Bromofluorobenzene	12.402	95	262368	50.079	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	147210	40.637	ug/l	97
3) Chloromethane	2.068	50	288876	49.235	ug/l	97
4) Vinyl Chloride	2.202	62	388634	53.584	ug/l	99
5) Bromomethane	2.598	94	292335	53.970	ug/l	100
6) Chloroethane	2.733	64	266036	55.172	ug/l	99
7) Trichlorofluoromethane	3.050	101	435783	49.413	ug/l	97
8) Diethyl Ether	3.458	74	109033	46.730	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	214906	49.394	ug/l	98
10) Methyl Iodide	4.001	142	251096	53.482	ug/l	96
11) Tert butyl alcohol	4.866	59	59139	204.058	ug/l #	84
12) 1,1-Dichloroethene	3.793	96	209124	48.899	ug/l	94
13) Acrolein	3.647	56	67121	158.141	ug/l	99
14) Allyl chloride	4.379	41	305726	48.583	ug/l	98
15) Acrylonitrile	5.061	53	226259	238.524	ug/l	99
16) Acetone	3.866	43	257167	280.645	ug/l	99
17) Carbon Disulfide	4.104	76	674565	48.375	ug/l	100
18) Methyl Acetate	4.385	43	131808	48.336	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	536488	48.411	ug/l	99
20) Methylene Chloride	4.610	84	241025	50.654	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	243549	50.676	ug/l	99
22) Diisopropyl ether	6.012	45	696767	50.954	ug/l	94
23) Vinyl Acetate	5.958	43	1859565	245.935	ug/l	99
24) 1,1-Dichloroethane	5.915	63	429668	51.394	ug/l	99
25) 2-Butanone	6.890	43	316503	253.961	ug/l	98
26) 2,2-Dichloropropane	6.884	77	379004	52.538	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	285339	51.356	ug/l	99
28) Bromochloromethane	7.244	49	175456	52.898	ug/l	97
29) Tetrahydrofuran	7.262	42	183118	237.044	ug/l	98
30) Chloroform	7.421	83	451255	52.336	ug/l	99
31) Cyclohexane	7.701	56	375108	47.613	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	394056	51.507	ug/l	99
36) 1,1-Dichloropropene	7.835	75	317586	51.245	ug/l	99
37) Ethyl Acetate	6.982	43	125483	48.201	ug/l	100
38) Carbon Tetrachloride	7.817	117	352681	52.395	ug/l	98
39) Methylcyclohexane	9.109	83	406063	49.756	ug/l	97
40) Benzene	8.079	78	1014264	53.099	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	77838m	51.807	ug/l		
42) 1,2-Dichloroethane	8.158	62	258937	52.122	ug/l		100
43) Isopropyl Acetate	8.195	43	250740	47.653	ug/l	#	85
44) Trichloroethene	8.866	130	255103	51.680	ug/l		97
45) 1,2-Dichloropropane	9.140	63	233639	53.160	ug/l		99
46) Dibromomethane	9.225	93	131880	52.280	ug/l		99
47) Bromodichloromethane	9.420	83	345709	53.260	ug/l		98
48) Methyl methacrylate	9.219	41	121834	48.387	ug/l		96
49) 1,4-Dioxane	9.225	88	28081	949.382	ug/l		96
51) 4-Methyl-2-Pentanone	10.000	43	674267	248.424	ug/l		100
52) Toluene	10.170	92	646468	53.288	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	302783	51.512	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	364333	52.418	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	175309	51.936	ug/l		98
56) Ethyl methacrylate	10.438	69	213704	49.477	ug/l		98
57) 1,3-Dichloropropane	10.713	76	293968	51.352	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	531531	260.887	ug/l		100
59) 2-Hexanone	10.756	43	471343	255.032	ug/l		98
60) Dibromochloromethane	10.908	129	231138	51.895	ug/l		100
61) 1,2-Dibromoethane	11.012	107	160069	50.454	ug/l		100
64) Tetrachloroethene	10.646	164	284630	52.484	ug/l		99
65) Chlorobenzene	11.438	112	693667	52.949	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	239263	53.813	ug/l		98
67) Ethyl Benzene	11.518	91	1219913	54.111	ug/l		99
68) m/p-Xylenes	11.627	106	953446	108.283	ug/l		99
69) o-Xylene	11.950	106	446920	54.193	ug/l		100
70) Styrene	11.969	104	752144	55.770	ug/l		99
71) Bromoform	12.127	173	128745	49.544	ug/l	#	99
73) Isopropylbenzene	12.249	105	1146162	52.906	ug/l		100
74) N-amyl acetate	12.066	43	226300	49.257	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	182753	49.405	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	151552m	51.159	ug/l		
77) Bromobenzene	12.530	156	262726	50.833	ug/l		98
78) n-propylbenzene	12.591	91	1396330	54.137	ug/l		100
79) 2-Chlorotoluene	12.676	91	783125	52.993	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	943980	53.915	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	59917	48.961	ug/l		99
82) 4-Chlorotoluene	12.773	91	806542	52.611	ug/l		100
83) tert-Butylbenzene	12.993	119	825002	52.171	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	946009	54.277	ug/l		99
85) sec-Butylbenzene	13.170	105	1234484	53.143	ug/l		99
86) p-Isopropyltoluene	13.286	119	1047646	54.334	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	536529	52.641	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	520698	51.501	ug/l		99
89) n-Butylbenzene	13.615	91	955218	53.939	ug/l		98
90) Hexachloroethane	13.877	117	209441	53.061	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	460235	51.489	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	27552	47.839	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	243376	46.042	ug/l		98
94) Hexachlorobutadiene	15.017	225	144679	46.578	ug/l		99
95) Naphthalene	15.139	128	408671	45.340	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	208542	45.784	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

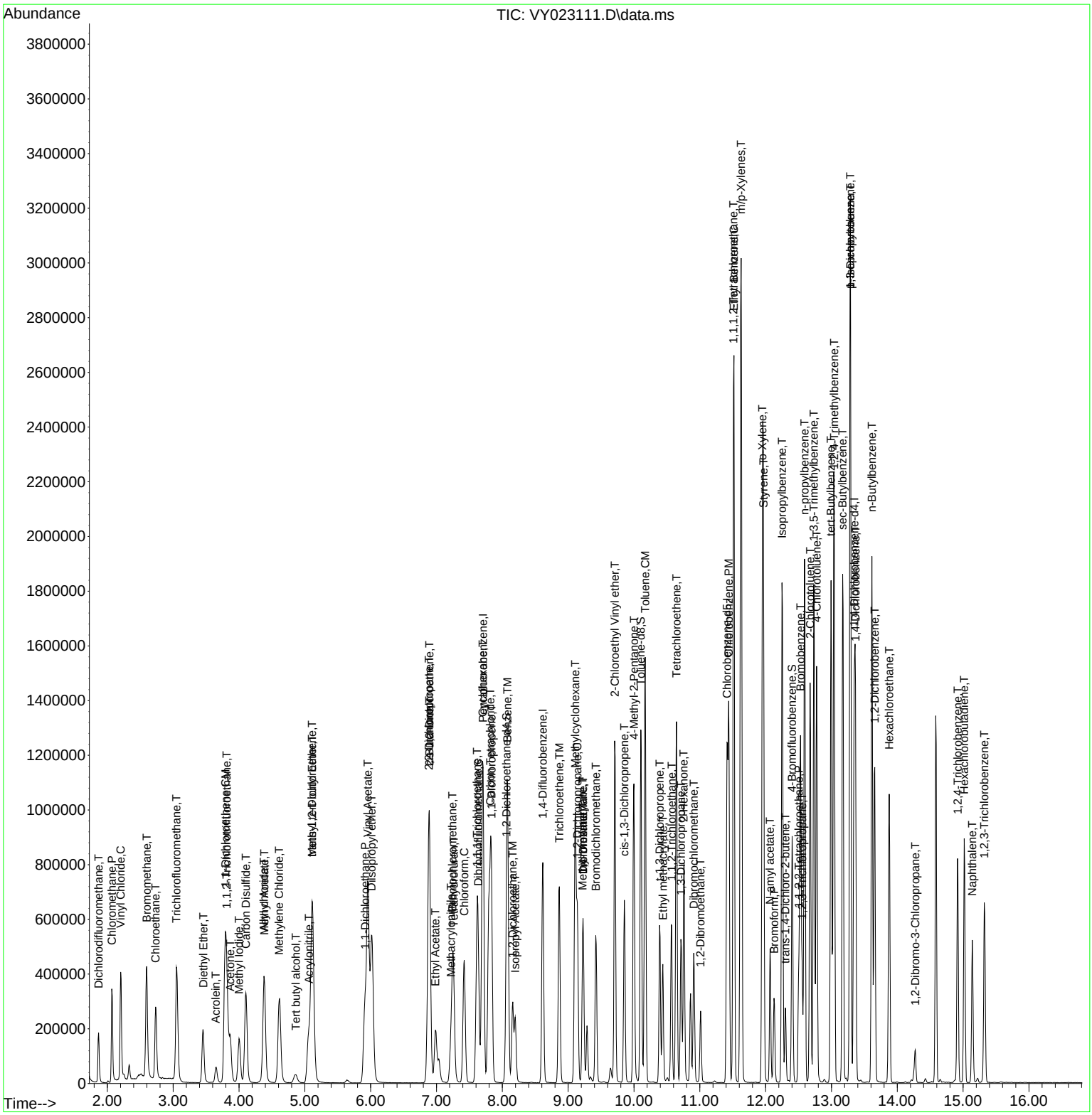
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

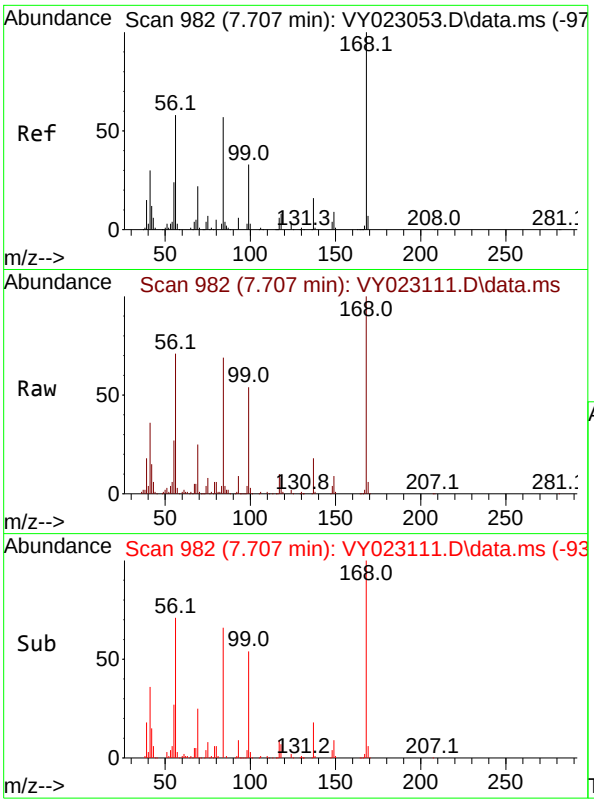
Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

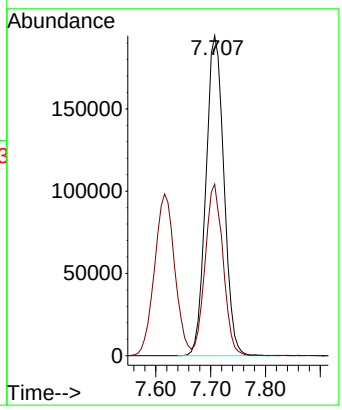




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:168 Resp: 44379

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
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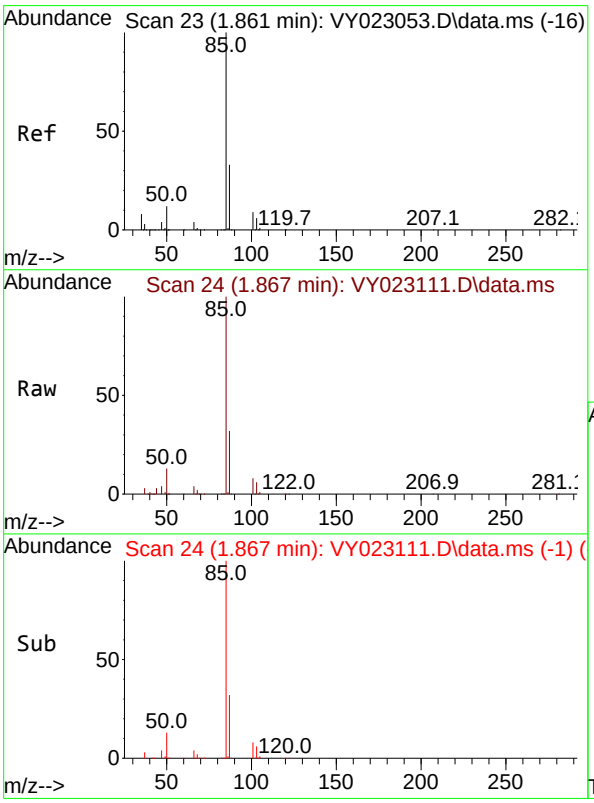
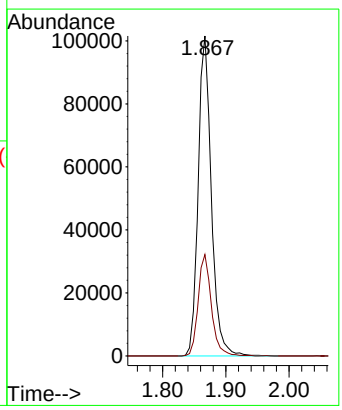
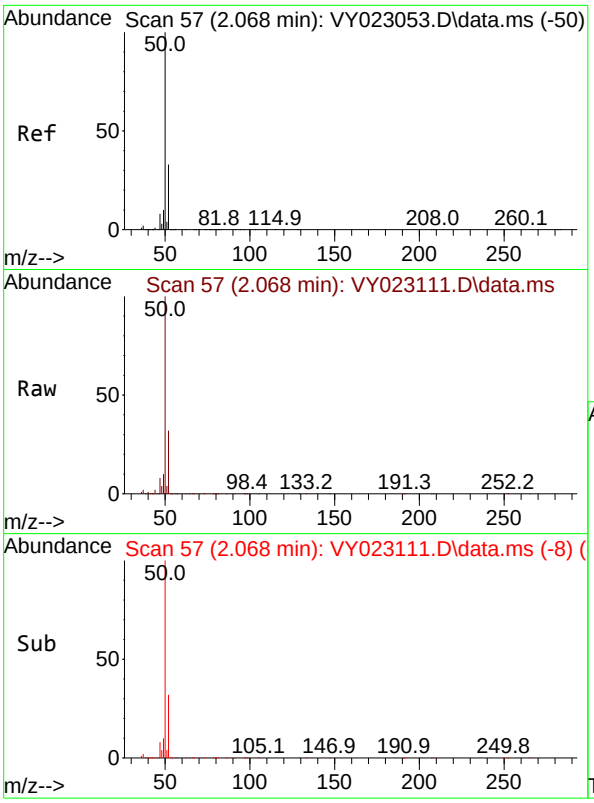


#2
Dichlorodifluoromethane
Concen: 40.637 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 85 Resp: 147210

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.6	49.8

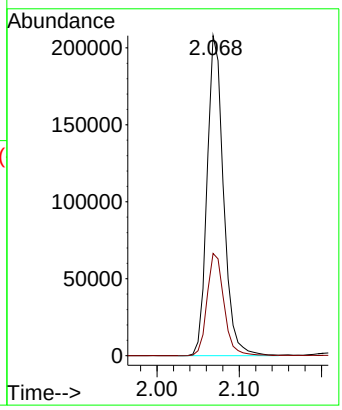




#3
Chloromethane
Concen: 49.235 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 50 Resp: 28887

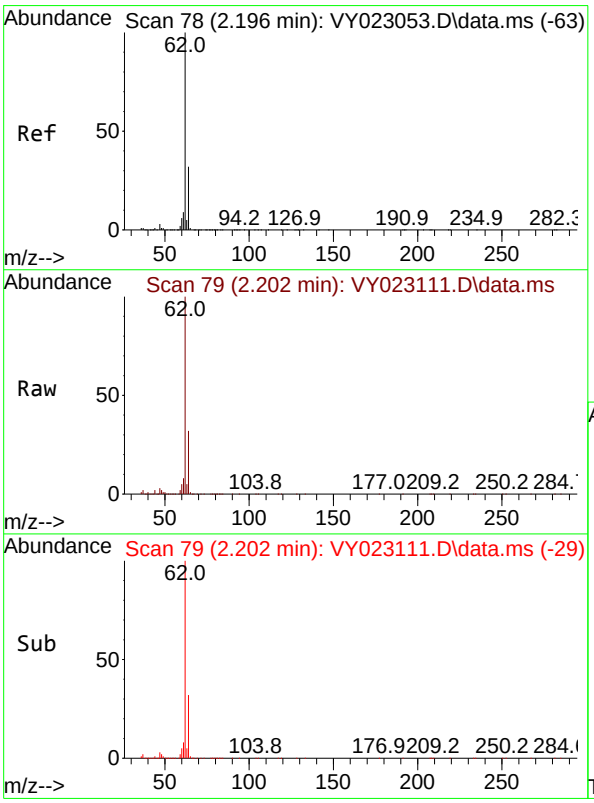
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

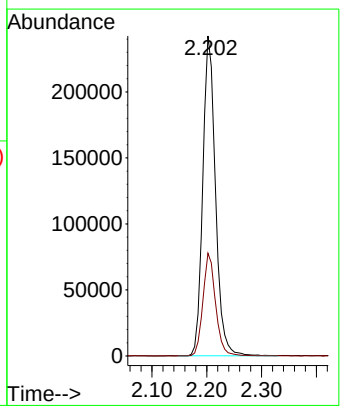
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

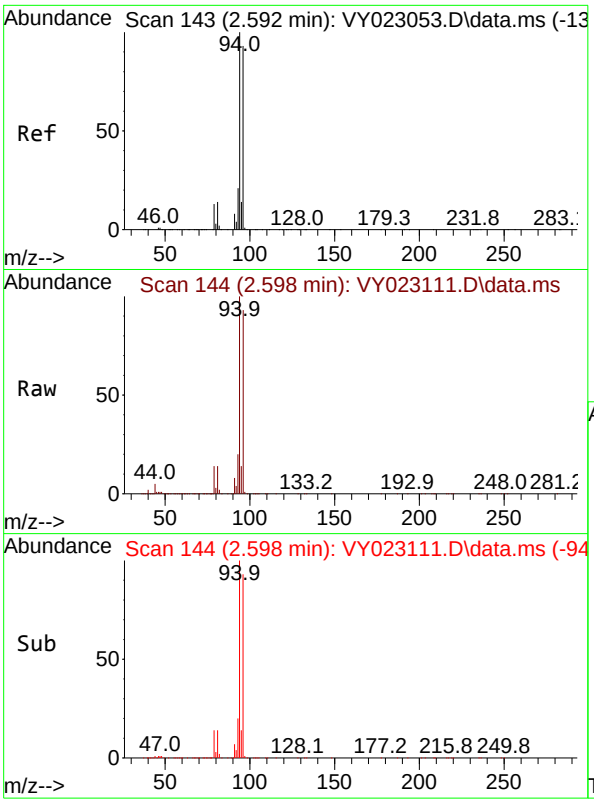


#4
Vinyl Chloride
Concen: 53.584 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 62 Resp: 388634

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

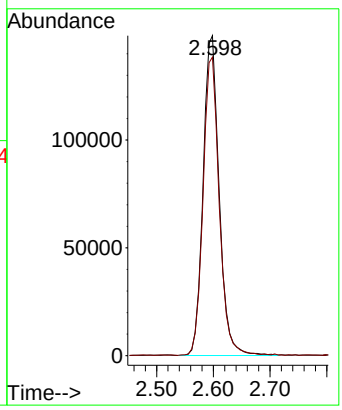




#5
Bromomethane
Concen: 53.970 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 94 Resp: 29233

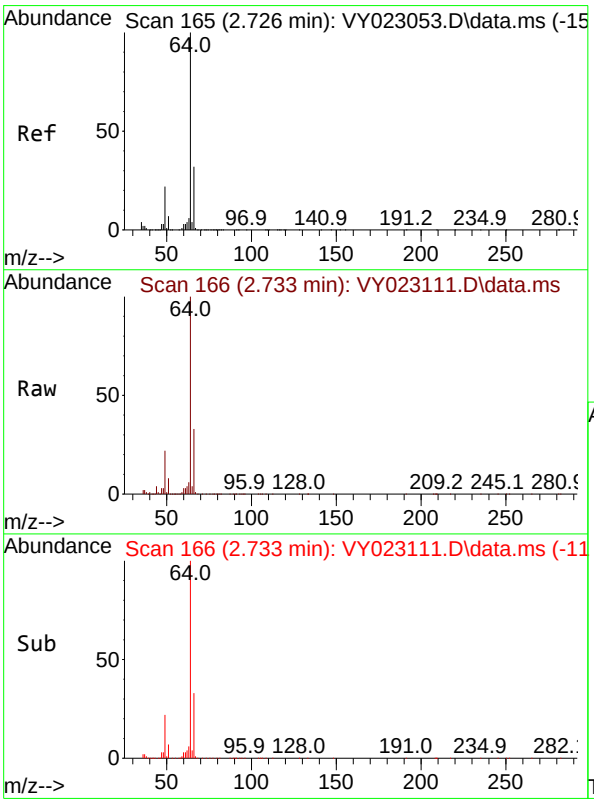
Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

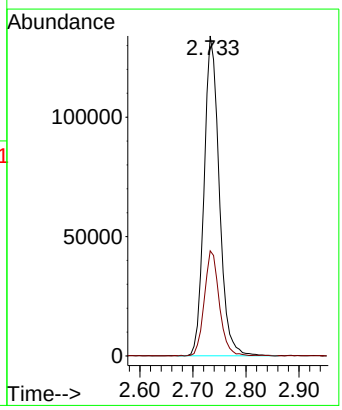
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

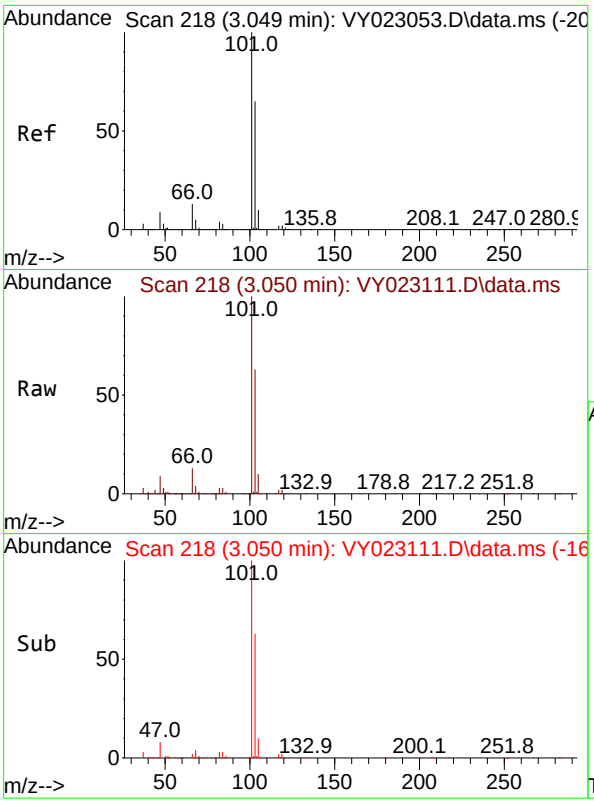


#6
Chloroethane
Concen: 55.172 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 64 Resp: 266036

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.8	38.6





#7
Trichlorofluoromethane
Concen: 49.413 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:101 Resp: 43578

Ion	Ratio	Lower	Upper
101	100		
103	62.8	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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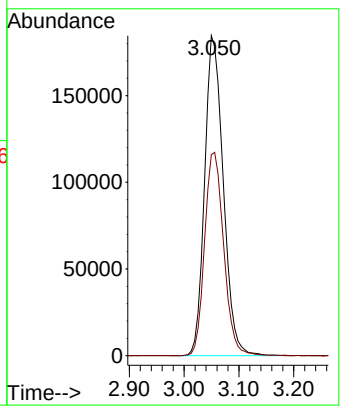
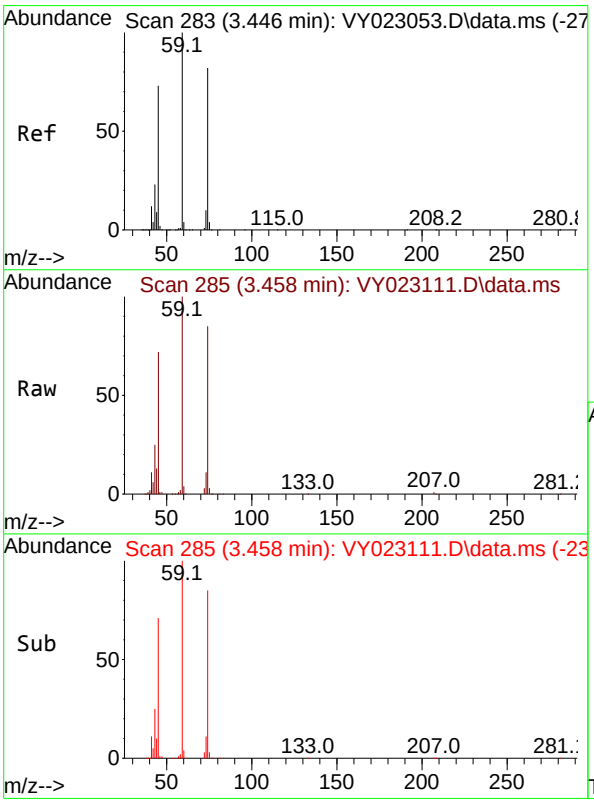
Supervised By :Mahesh Dadoda 08/19/2025

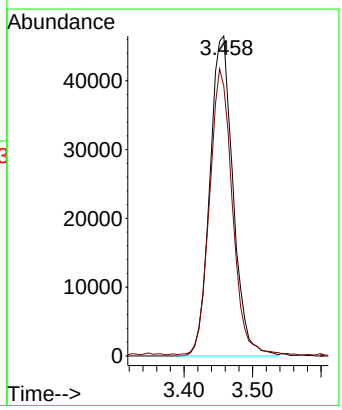


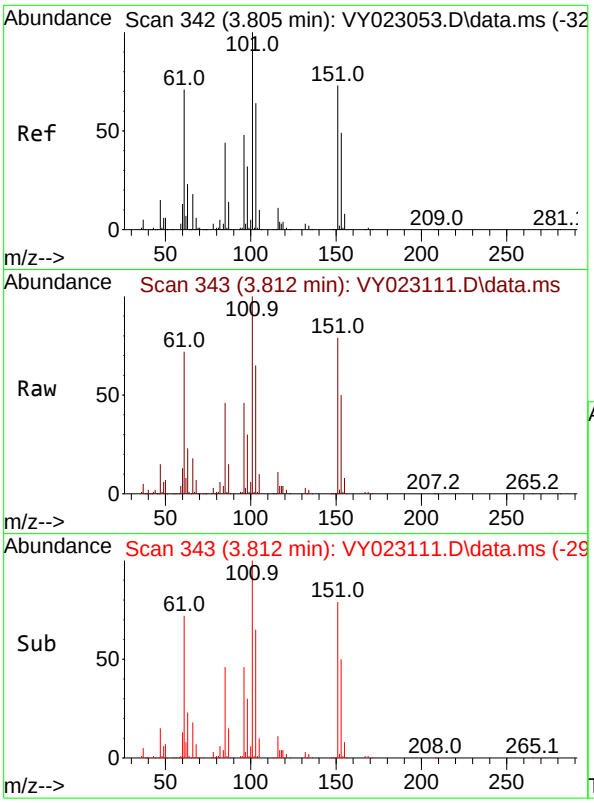


#8
Diethyl Ether
Concen: 46.730 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 74 Resp: 109033

Ion	Ratio	Lower	Upper
74	100		
45	88.3	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.394 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

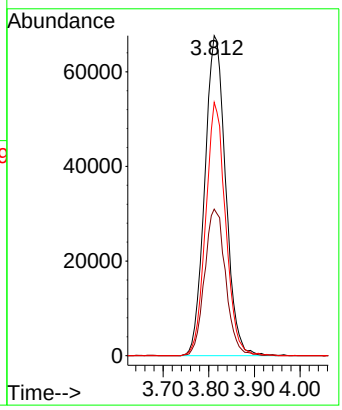
Tgt Ion:101 Resp: 21490

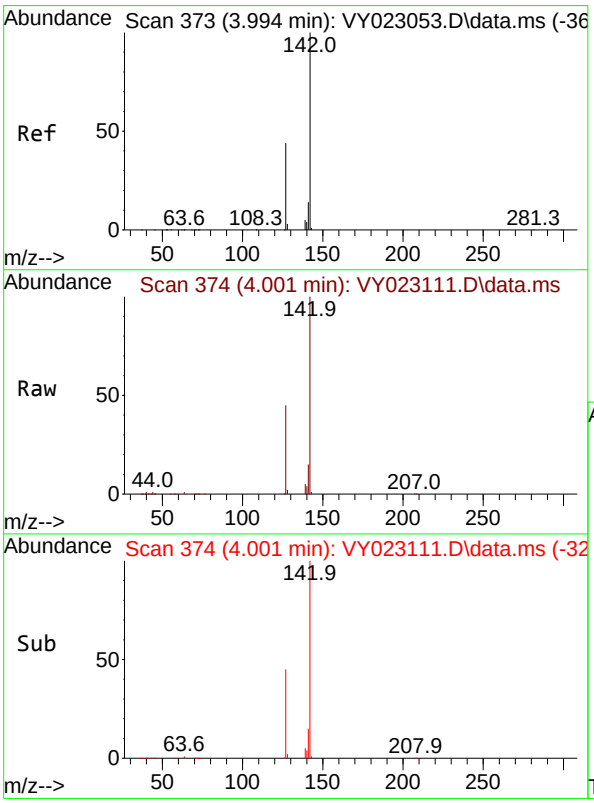
Ion	Ratio	Lower	Upper
101	100		
85	46.1	36.3	54.5
151	75.4	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

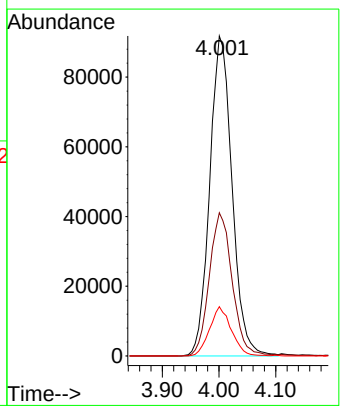


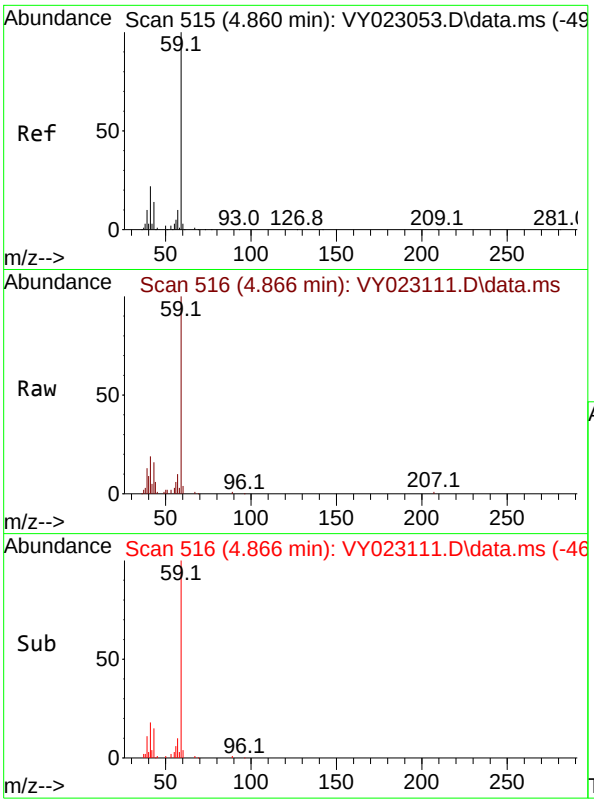


#10
Methyl Iodide
Concen: 53.482 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:142 Resp: 251096

Ion	Ratio	Lower	Upper
142	100		
127	46.2	34.9	52.3
141	15.0	11.3	16.9

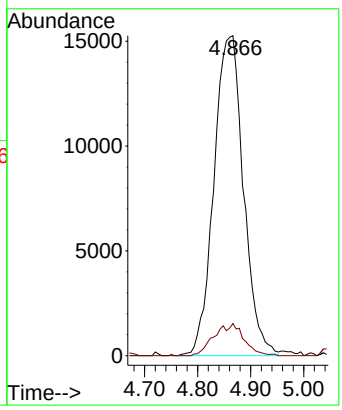




#11
Tert butyl alcohol
Concen: 204.058 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 59 Resp: 5913

Ion	Ratio	Lower	Upper
59	100		
57	4.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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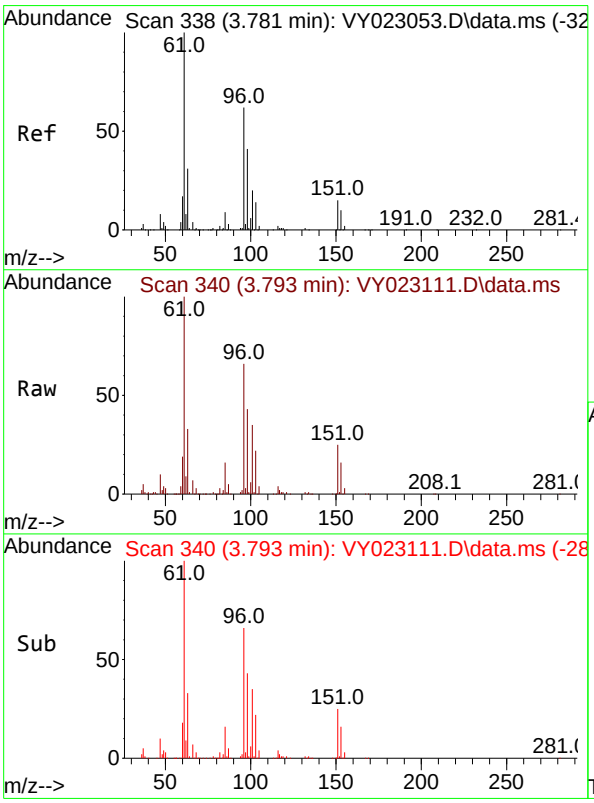
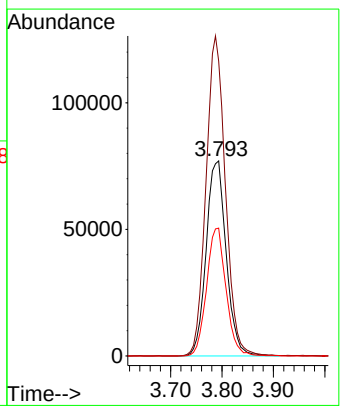
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

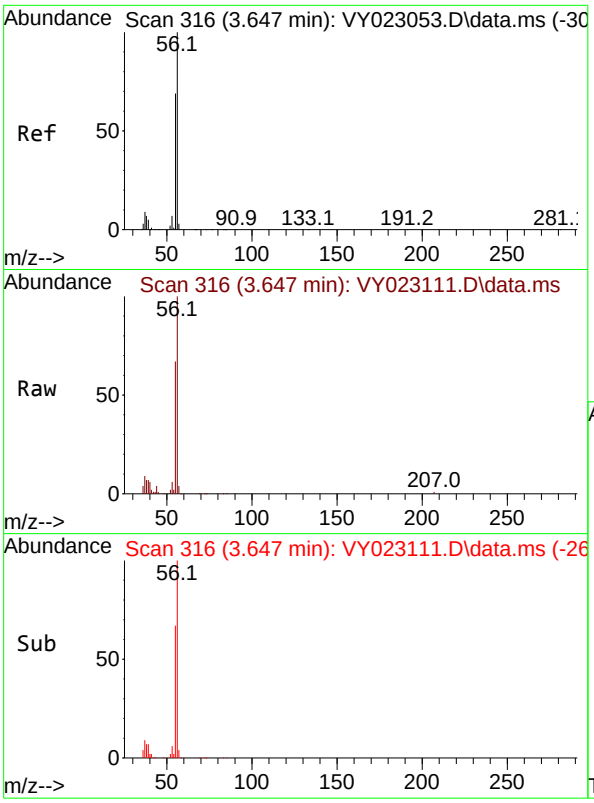


#12
1,1-Dichloroethene
Concen: 48.899 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 96 Resp: 209124

Ion	Ratio	Lower	Upper
96	100		
61	151.1	129.4	194.2
98	65.5	52.8	79.2

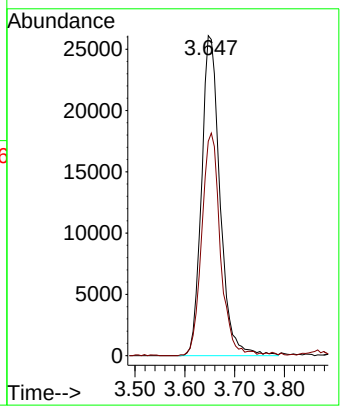




#13
Acrolein
Concen: 158.141 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 56 Resp: 6712

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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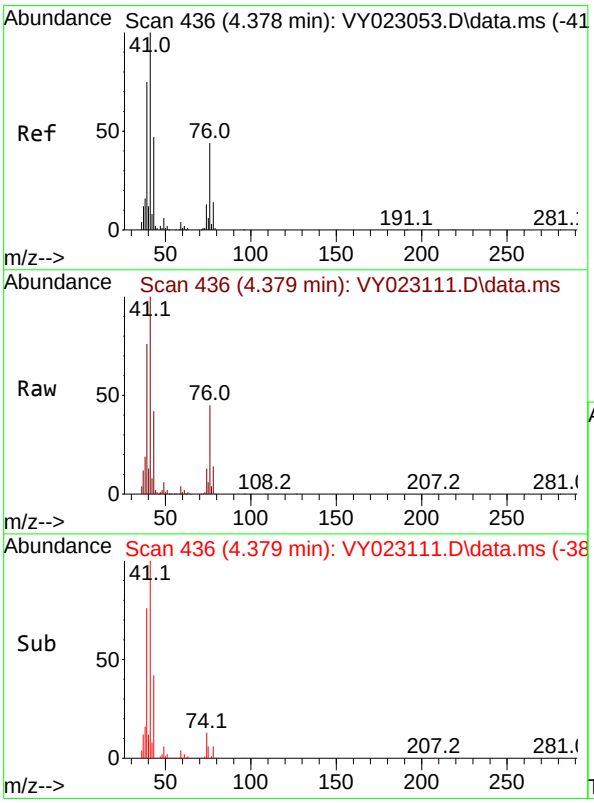
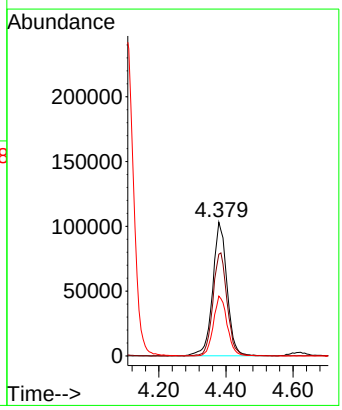
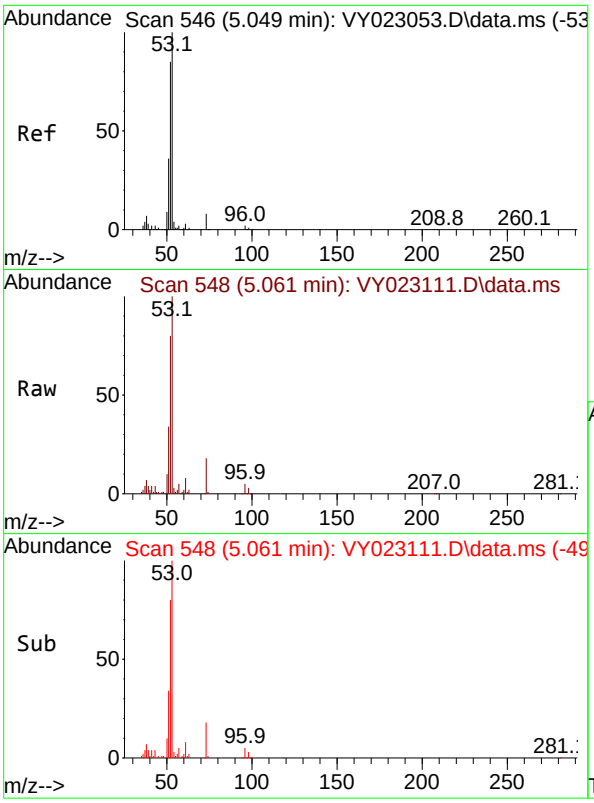


#14
Allyl chloride
Concen: 48.583 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 41 Resp: 305726

Ion	Ratio	Lower	Upper
41	100		
39	76.2	59.8	89.6
76	43.2	33.7	50.5

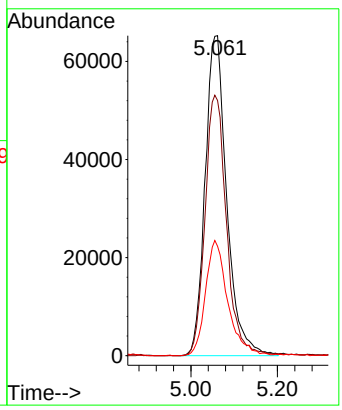




#15
Acrylonitrile
Concen: 238.524 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 53 Resp: 22625

Ion	Ratio	Lower	Upper
53	100		
52	80.6	65.3	97.9
51	37.1	29.5	44.3



Instrument :
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ClientSampleId :
VSTDCCC050

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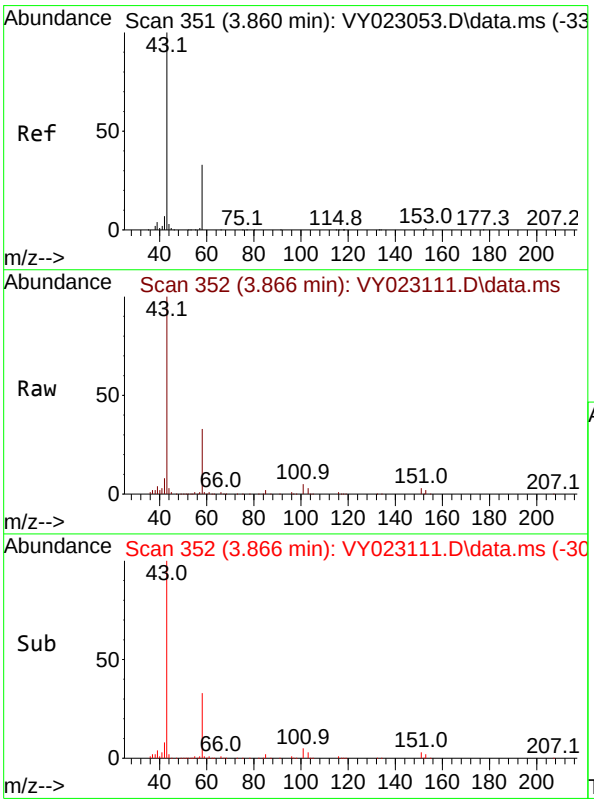
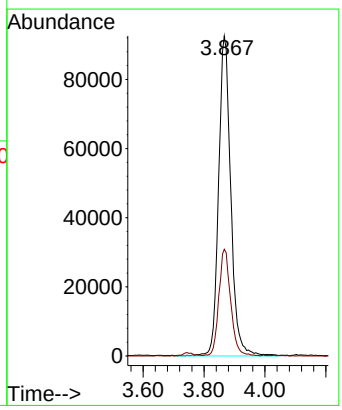
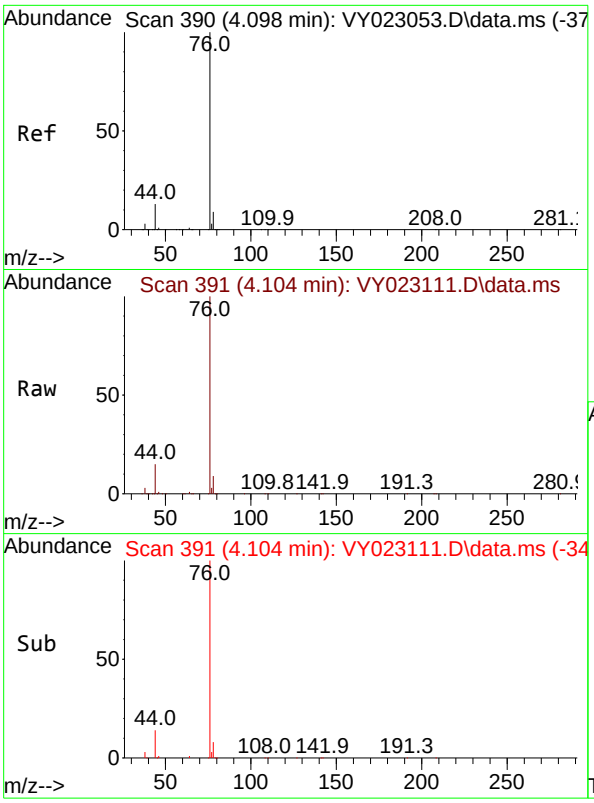


#16
Acetone
Concen: 280.645 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 257167

Ion	Ratio	Lower	Upper
43	100		
58	33.3	27.1	40.7

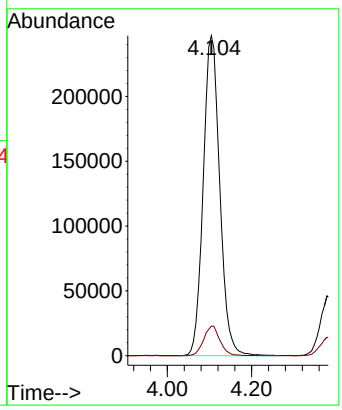




#17
Carbon Disulfide
Concen: 48.375 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 76 Resp: 67456

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2



Instrument :
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ClientSampleId :
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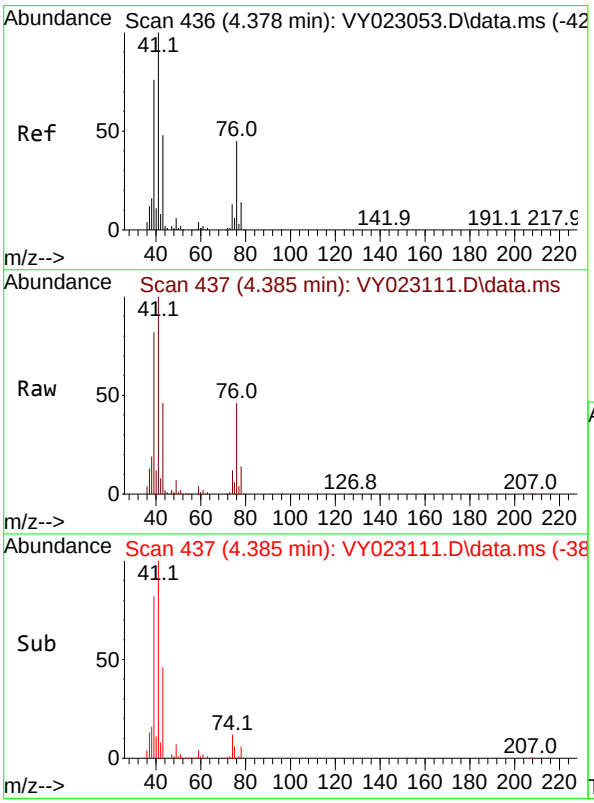
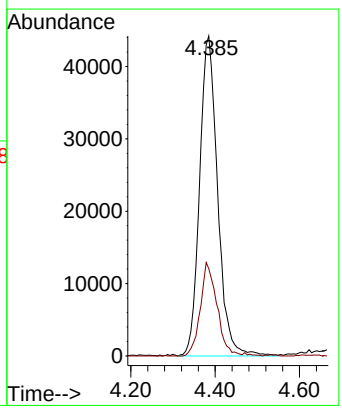
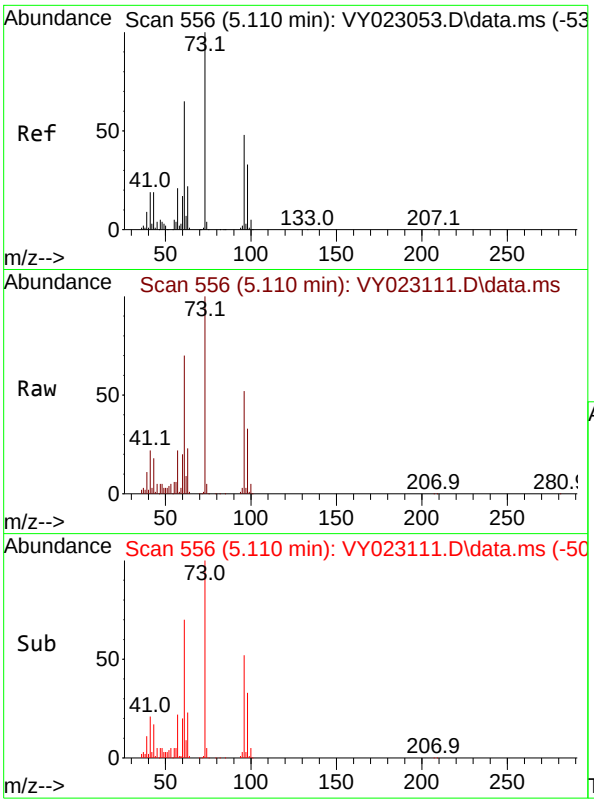


#18
Methyl Acetate
Concen: 48.336 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 131808

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 48.411 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 73 Resp: 53648

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.1	25.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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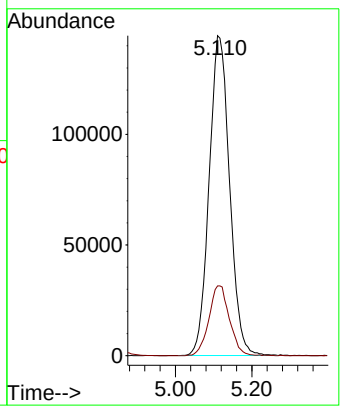
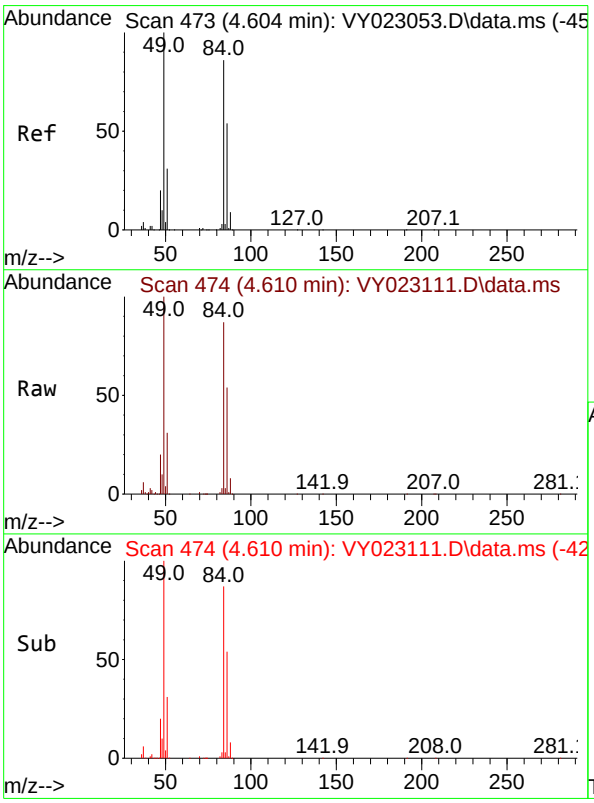
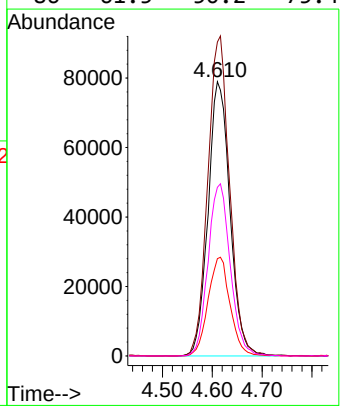


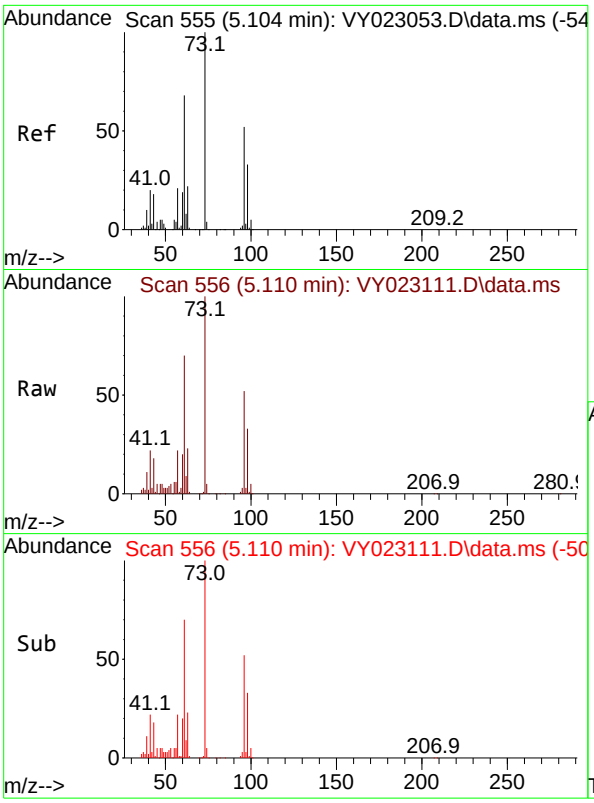


#20
Methylene Chloride
Concen: 50.654 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 84 Resp: 241025

Ion	Ratio	Lower	Upper
84	100		
49	114.5	93.0	139.6
51	35.4	29.0	43.4
86	61.5	50.2	75.4





#21
trans-1,2-Dichloroethene
Concen: 50.676 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 96 Resp: 24354

Ion	Ratio	Lower	Upper
96	100		
61	133.1	104.8	157.2
98	62.2	50.1	75.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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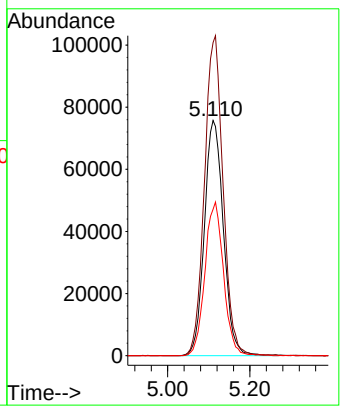
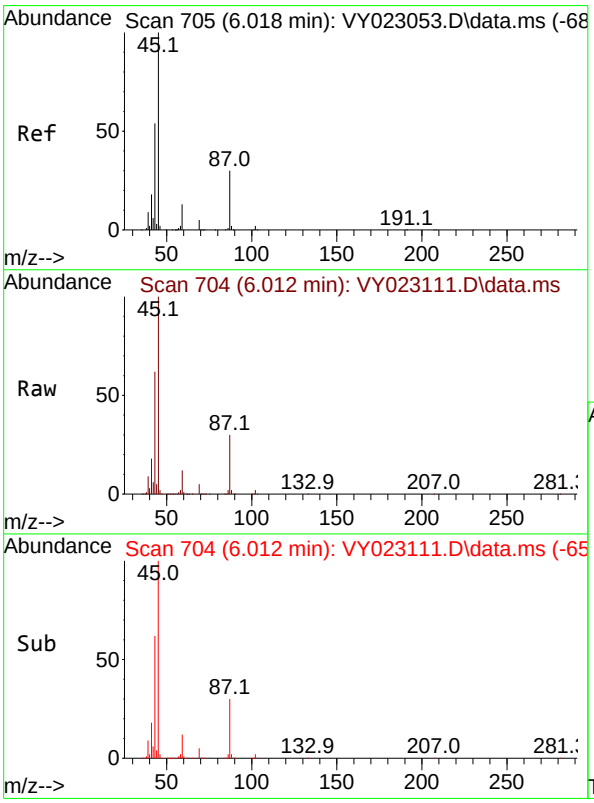
Supervised By :Mahesh Dadoda 08/19/2025

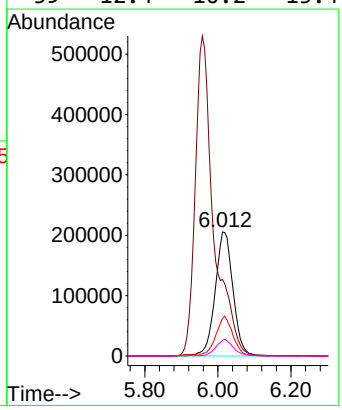


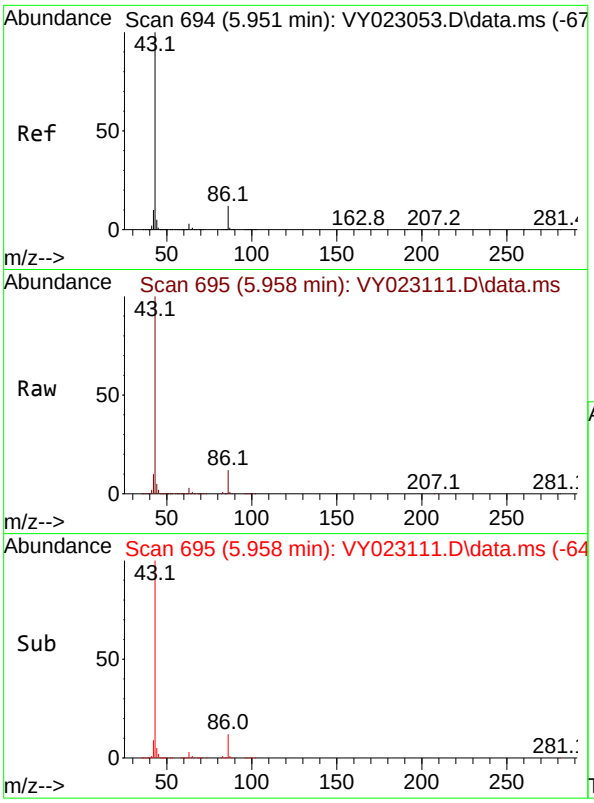


#22
Diisopropyl ether
Concen: 50.954 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 45 Resp: 696767

Ion	Ratio	Lower	Upper
45	100		
43	61.4	43.4	65.0
87	30.2	24.4	36.6
59	12.4	10.2	15.4





#23
Vinyl Acetate
Concen: 245.935 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 185956

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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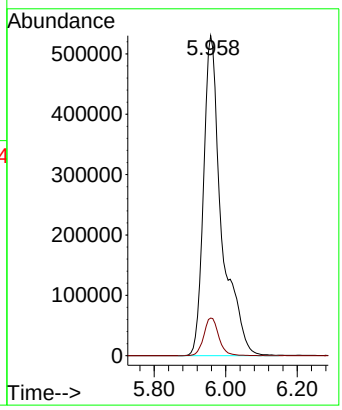
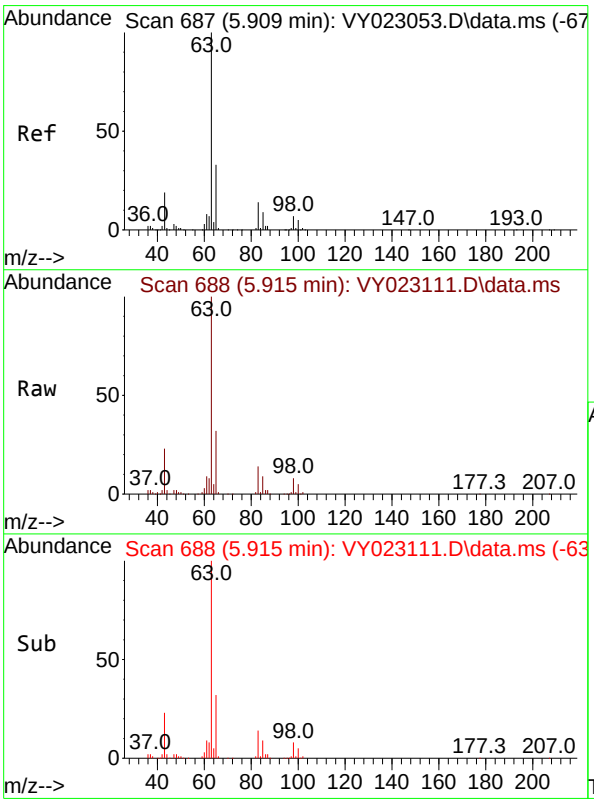
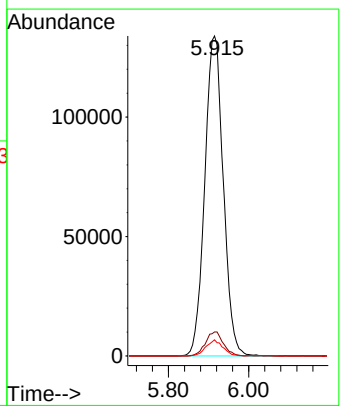


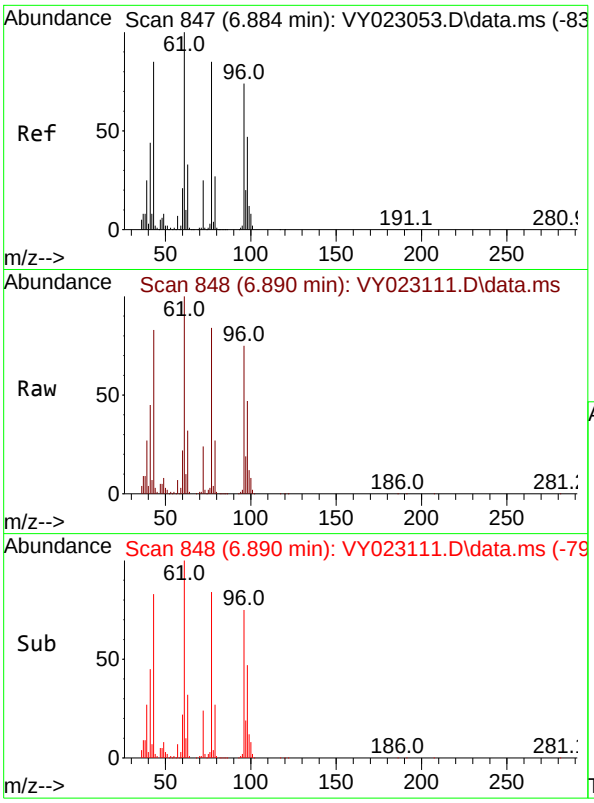


#24
1,1-Dichloroethane
Concen: 51.394 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 63 Resp: 429668

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.5	10.6
100	5.1	2.4	7.1





#25
2-Butanone
Concen: 253.961 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 31650

Ion	Ratio	Lower	Upper
43	100		
72	28.4	23.5	35.3

Instrument :
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ClientSampleId :
VSTDCCC050

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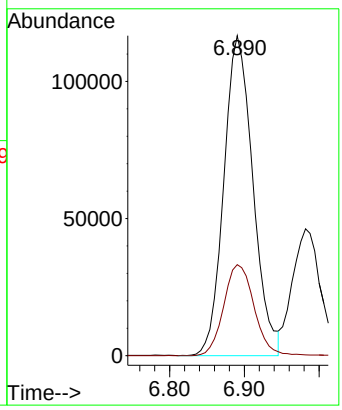
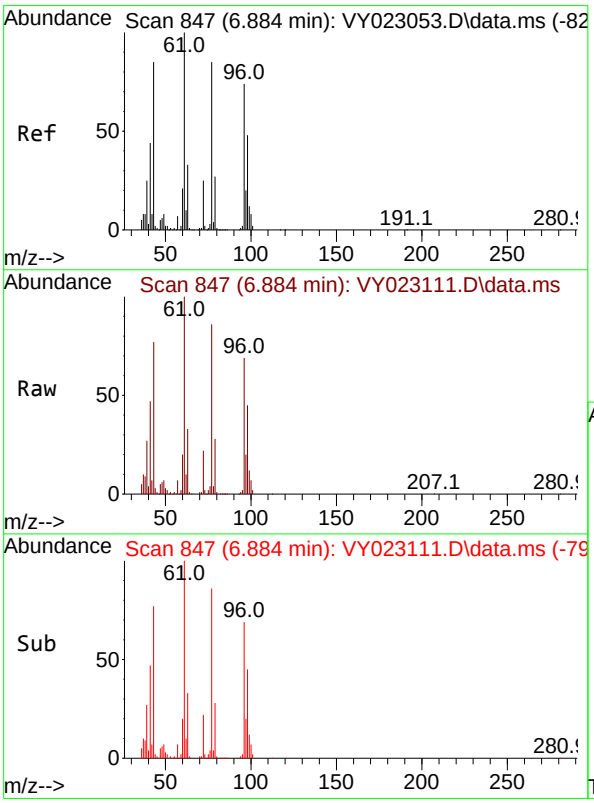
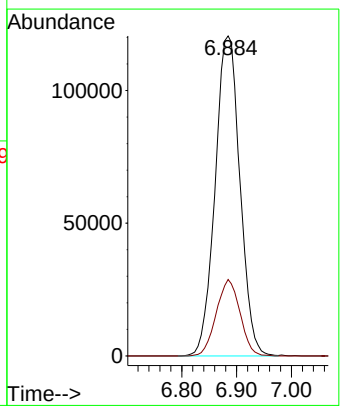


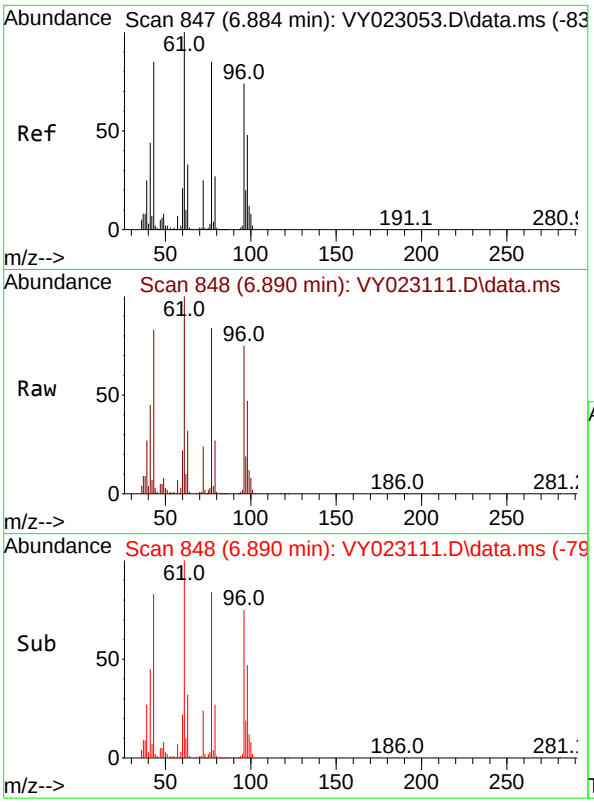


#26
2,2-Dichloropropane
Concen: 52.538 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 77 Resp: 379004

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.6	34.8

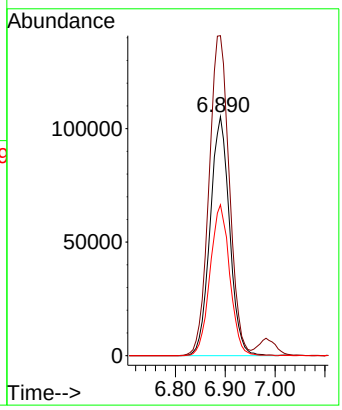




#27
cis-1,2-Dichloroethene
Concen: 51.356 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 96 Resp: 28533

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	278.6
98	63.8	0.0	130.4



Instrument :
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ClientSampleId :
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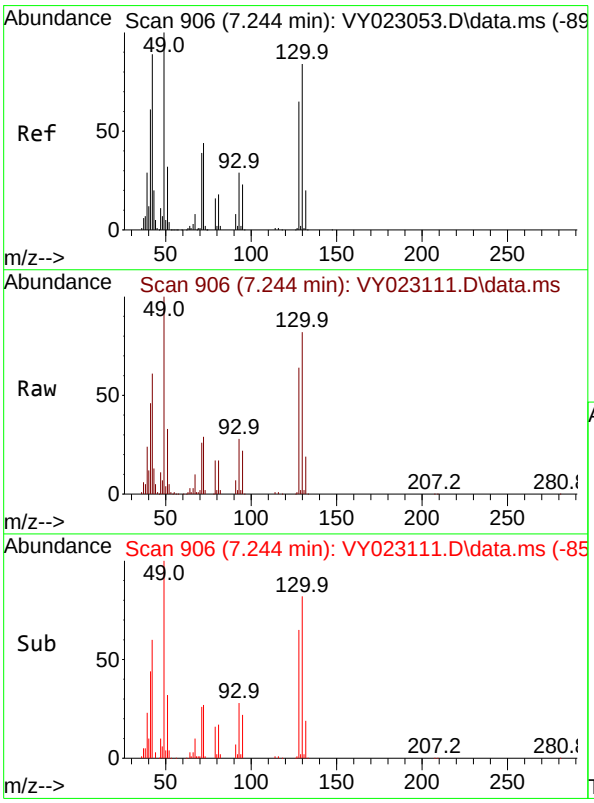
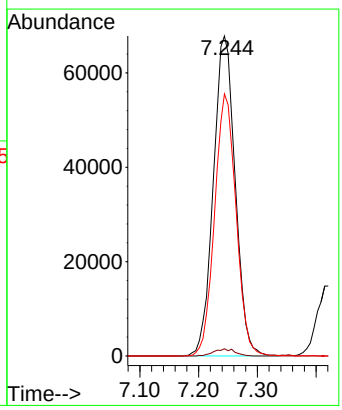
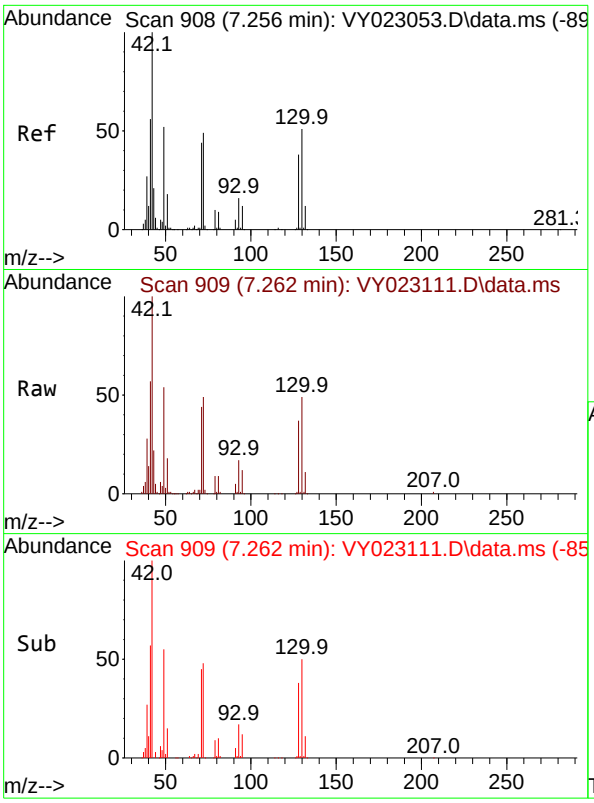


#28
Bromochloromethane
Concen: 52.898 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 49 Resp: 175456

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	80.4	66.4	99.6

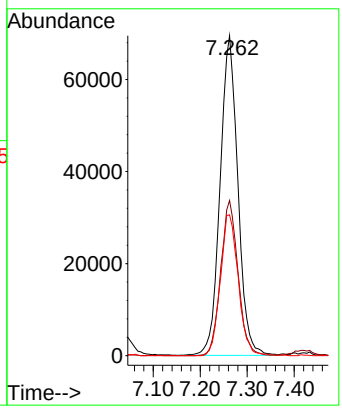




#29
Tetrahydrofuran
Concen: 237.044 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 42 Resp: 18311

Ion	Ratio	Lower	Upper
42	100		
72	47.4	39.4	59.2
71	44.2	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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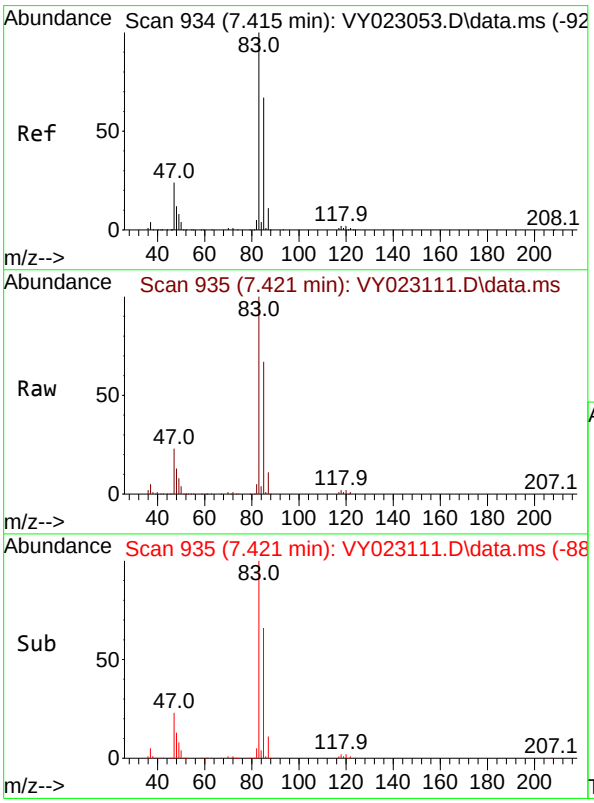
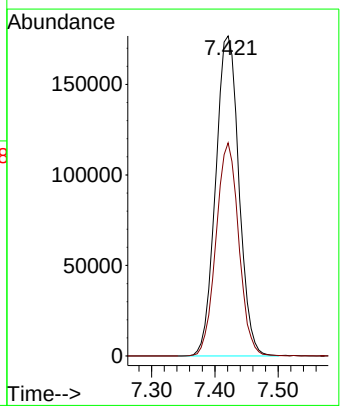
Supervised By :Mahesh Dadoda 08/19/2025

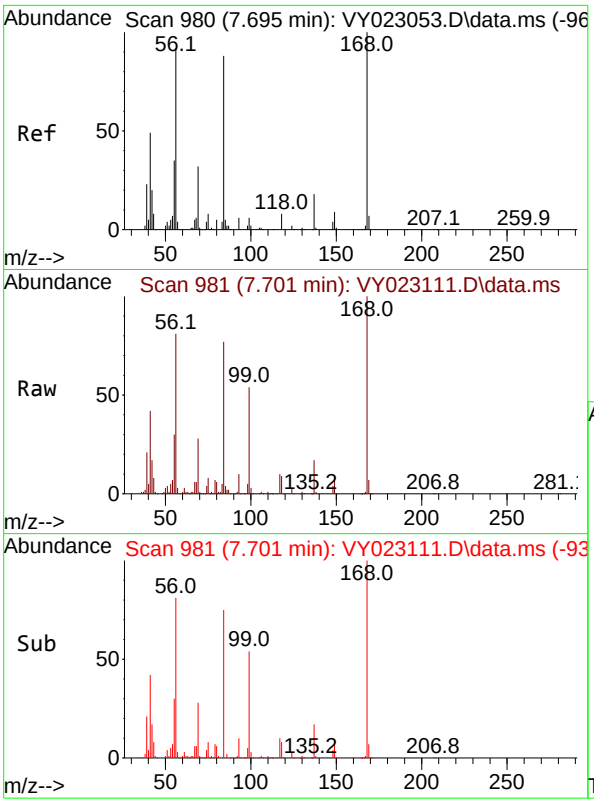


#30
Chloroform
Concen: 52.336 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 83 Resp: 451255

Ion	Ratio	Lower	Upper
83	100		
85	66.6	53.8	80.8

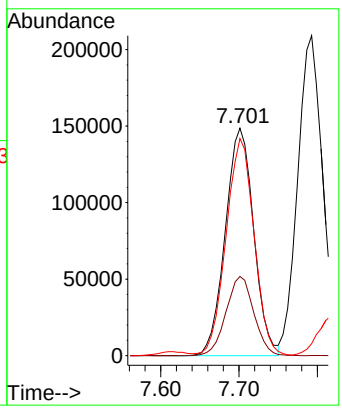




#31
Cyclohexane
Concen: 47.613 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 56 Resp: 37510

Ion	Ratio	Lower	Upper
56	100		
69	34.8	28.2	42.2
84	94.0	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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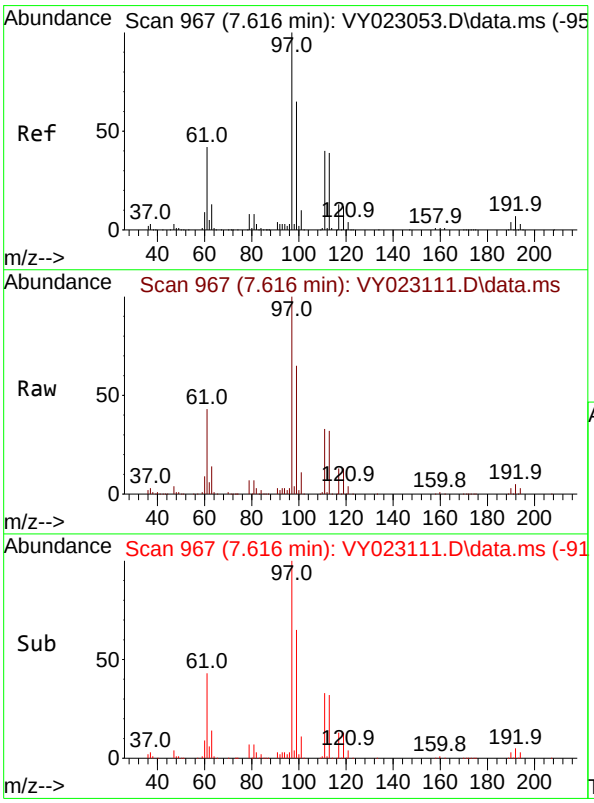
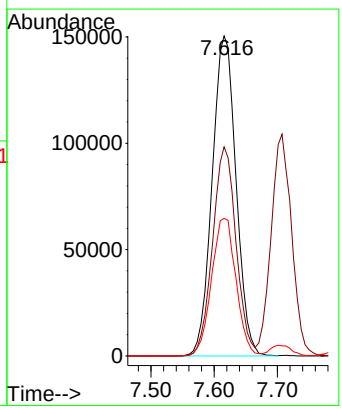
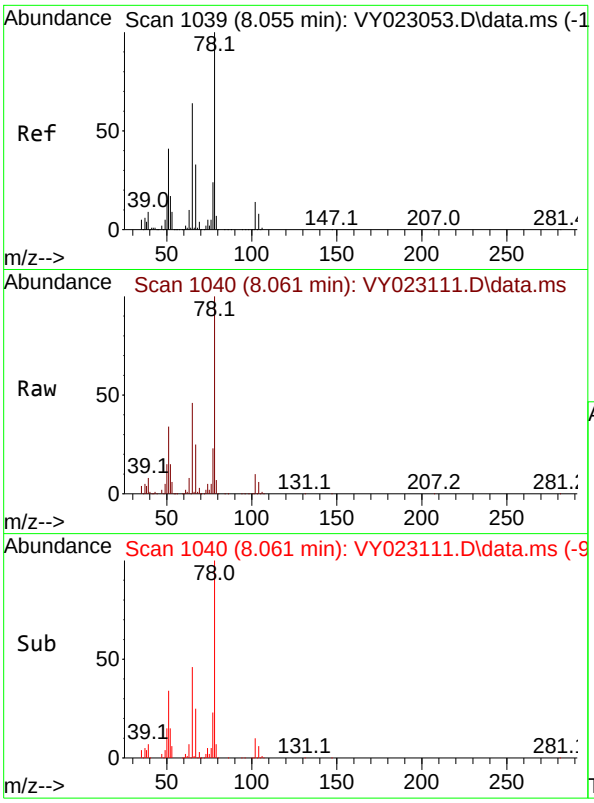


#32
1,1,1-Trichloroethane
Concen: 51.507 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 97 Resp: 394056

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	44.1	34.2	51.2

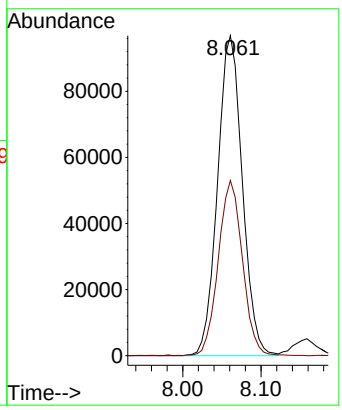




#33
1,2-Dichloroethane-d4
Concen: 50.349 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 65 Resp: 21296

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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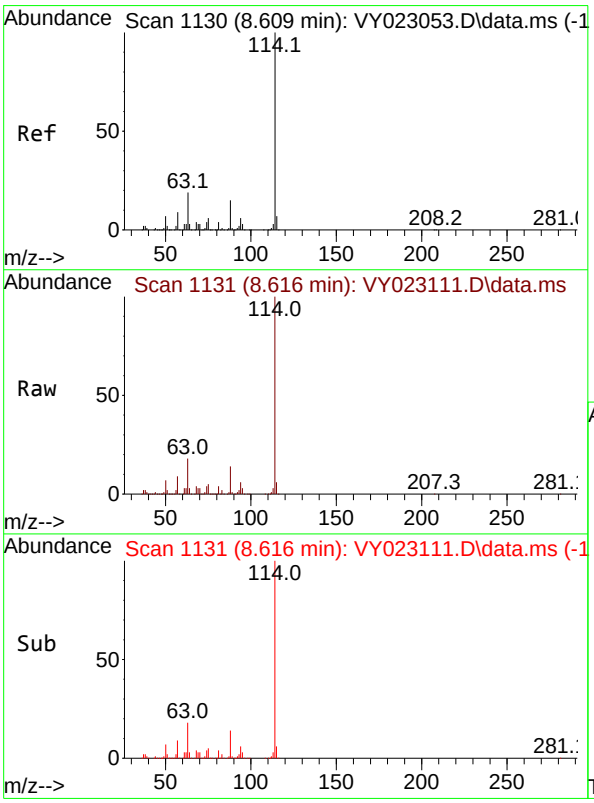
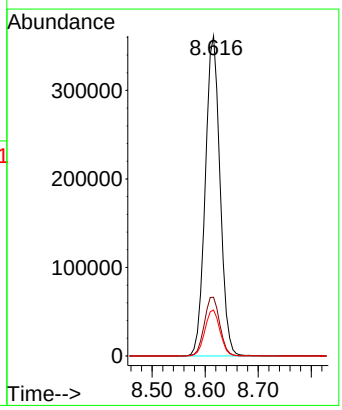
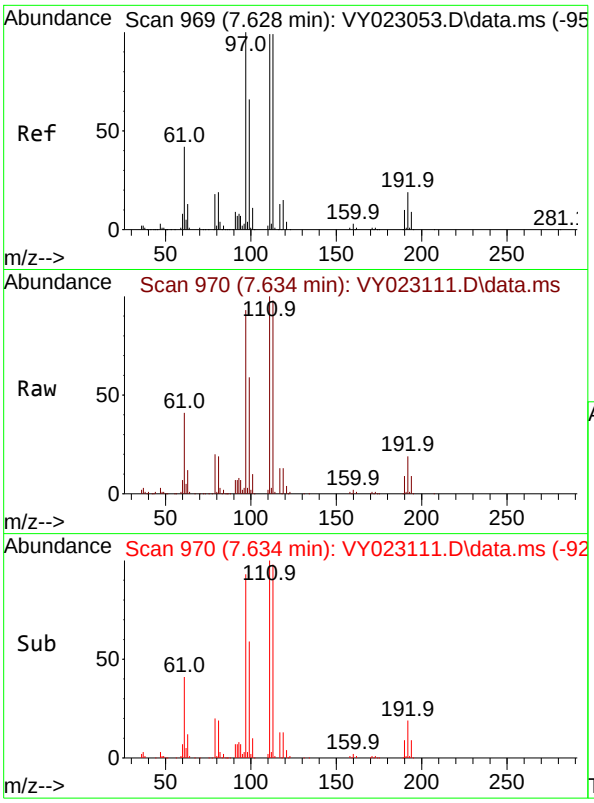


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:114 Resp: 696916

Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	38.4
88	14.4	0.0	30.0

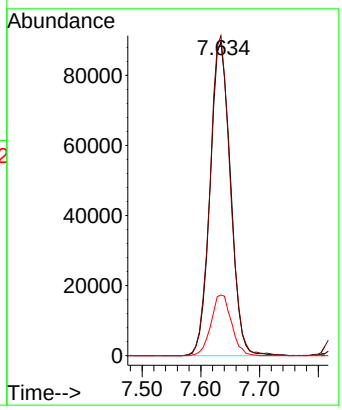




#35
Dibromofluoromethane
Concen: 51.722 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:113 Resp: 21568

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.1	121.7
192	19.4	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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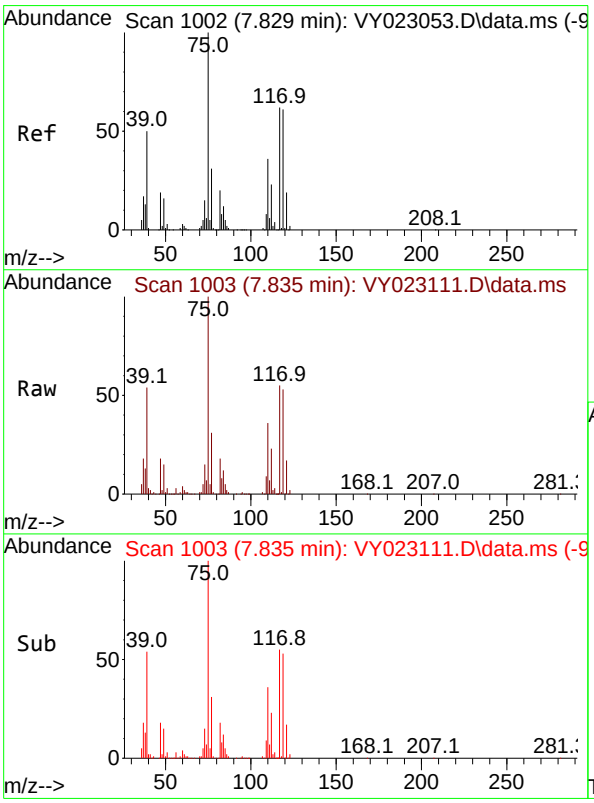
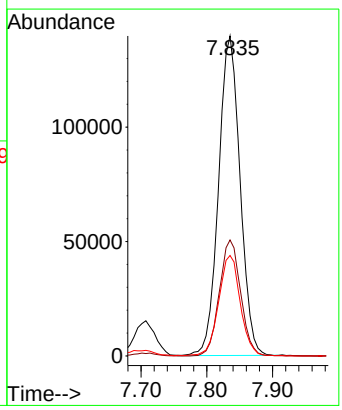
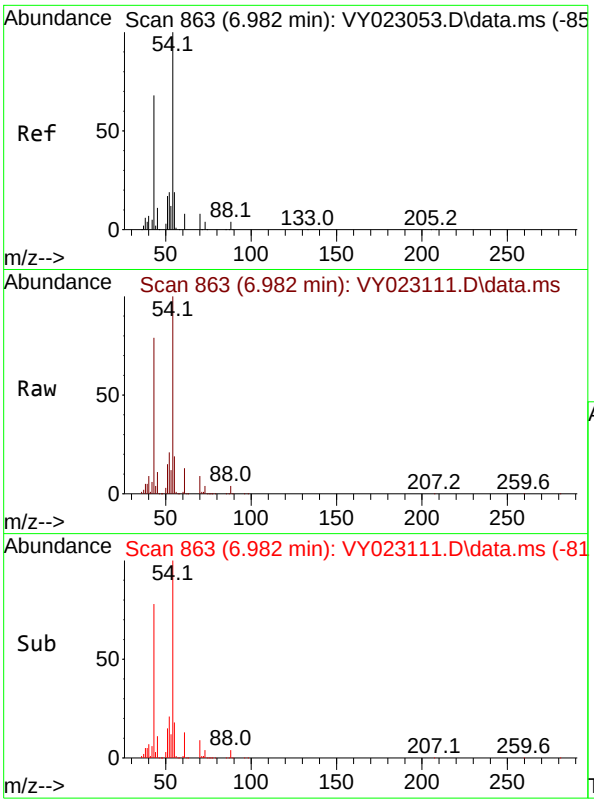


#36
1,1-Dichloropropene
Concen: 51.245 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 317586

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.4
77	31.8	24.6	37.0





#37
Ethyl Acetate
Concen: 48.201 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 12548

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.9	17.9
70	10.8	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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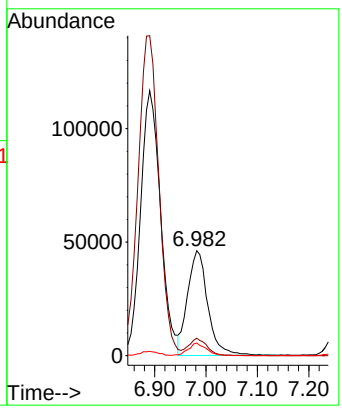
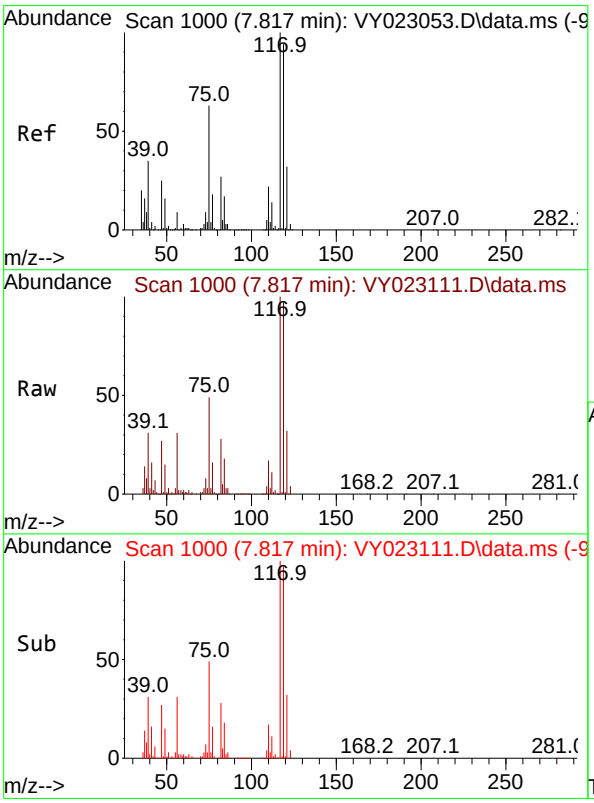
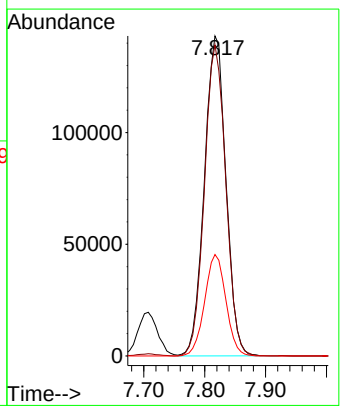


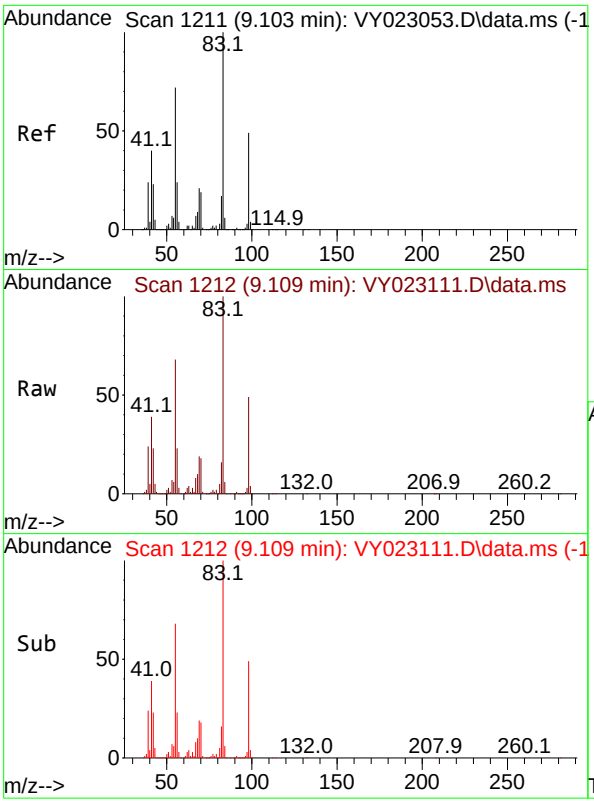


#38
Carbon Tetrachloride
Concen: 52.395 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:117 Resp: 352681

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.6	113.4
121	31.7	25.8	38.8





#39
Methylcyclohexane
Concen: 49.756 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 83 Resp: 40606

Ion	Ratio	Lower	Upper
83	100		
55	67.7	57.6	86.4
98	49.4	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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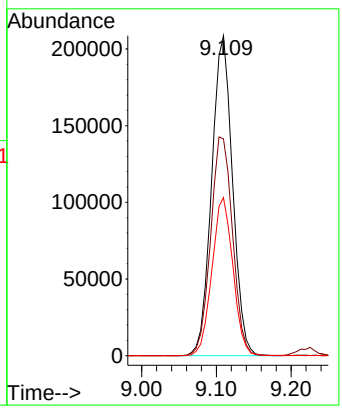
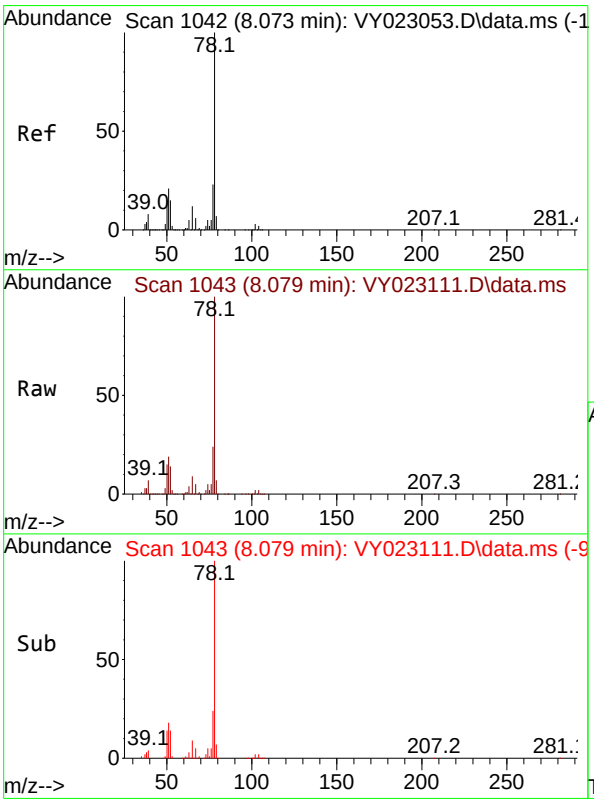
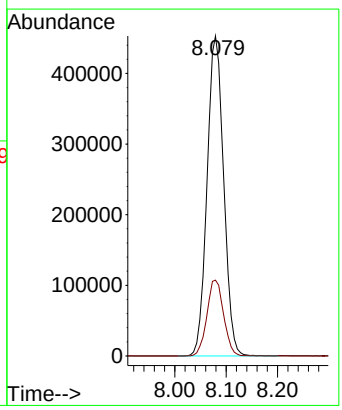


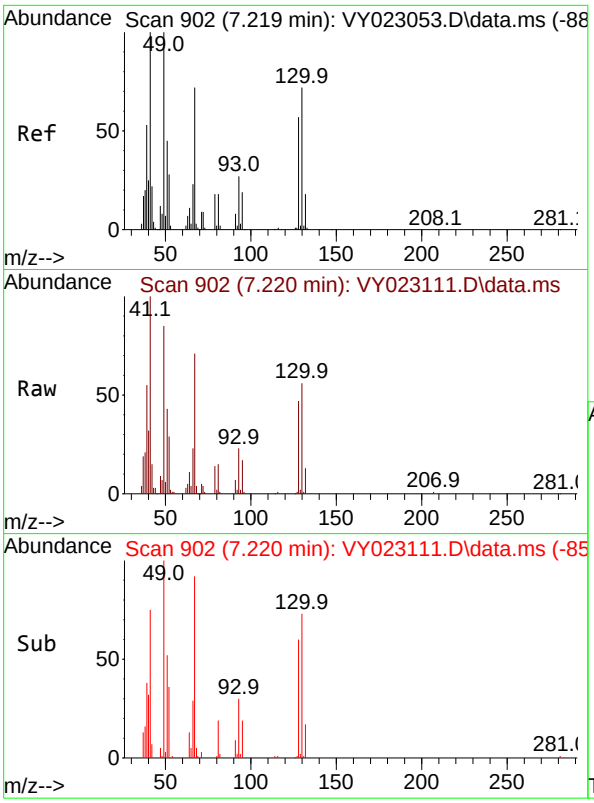


#40
Benzene
Concen: 53.099 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 78 Resp: 1014264

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0

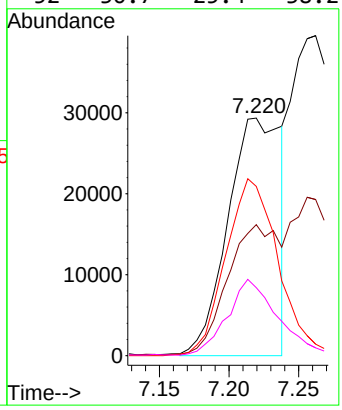




#41
Methacrylonitrile
Concen: 51.807 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 41 Resp: 7783

Ion	Ratio	Lower	Upper
41	100		
39	53.6	43.4	65.2
67	75.0	63.6	95.4
52	30.7	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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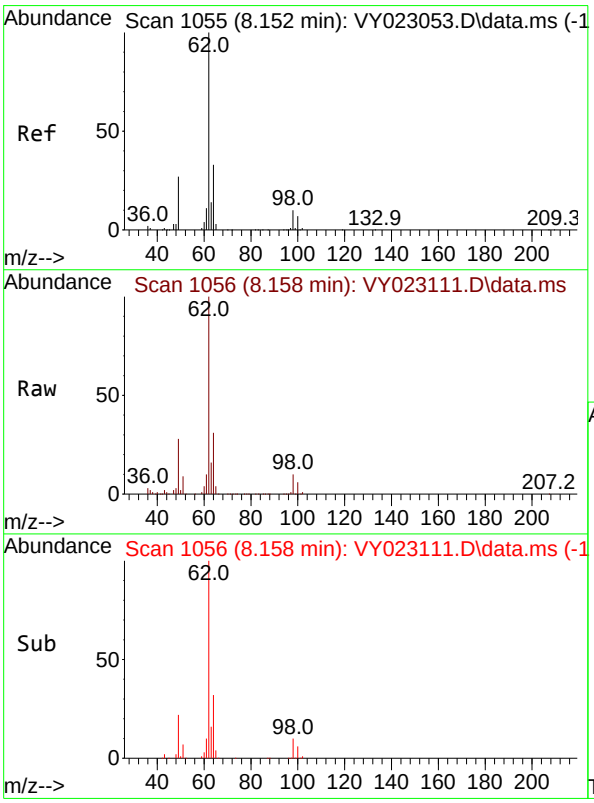
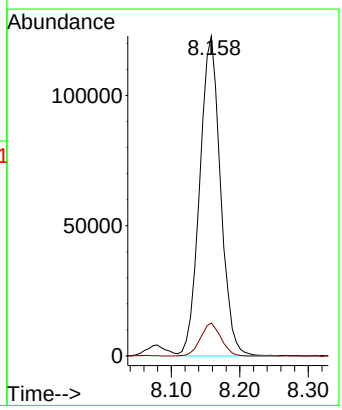
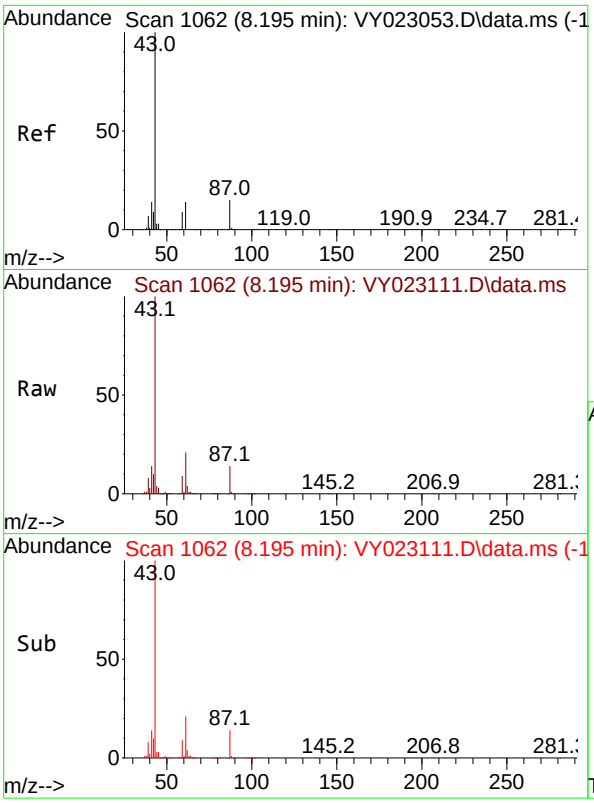


#42
1,2-Dichloroethane
Concen: 52.122 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 62 Resp: 258937

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6





#43
Isopropyl Acetate
Concen: 47.653 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 25074

Ion	Ratio	Lower	Upper
43	100		
61	31.8	16.4	24.6
87	14.3	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
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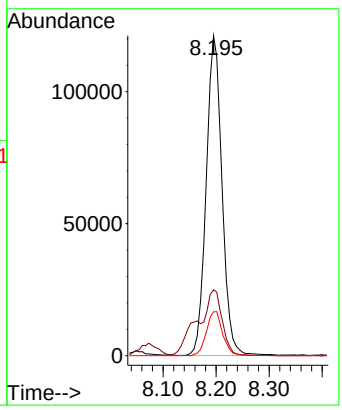
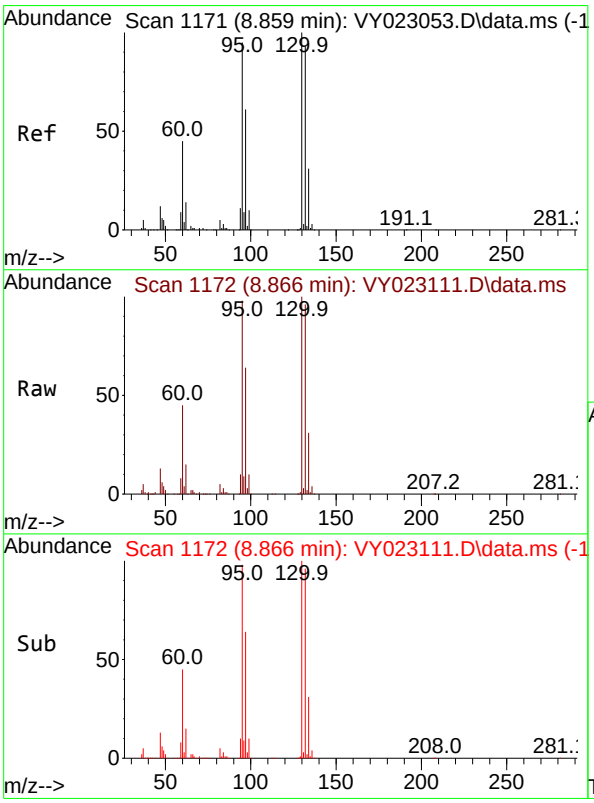
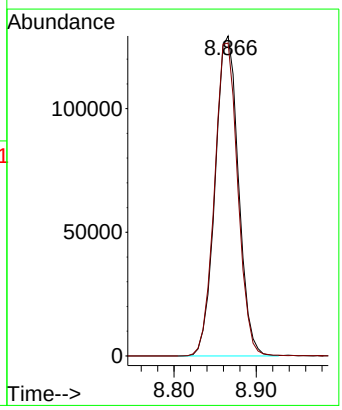


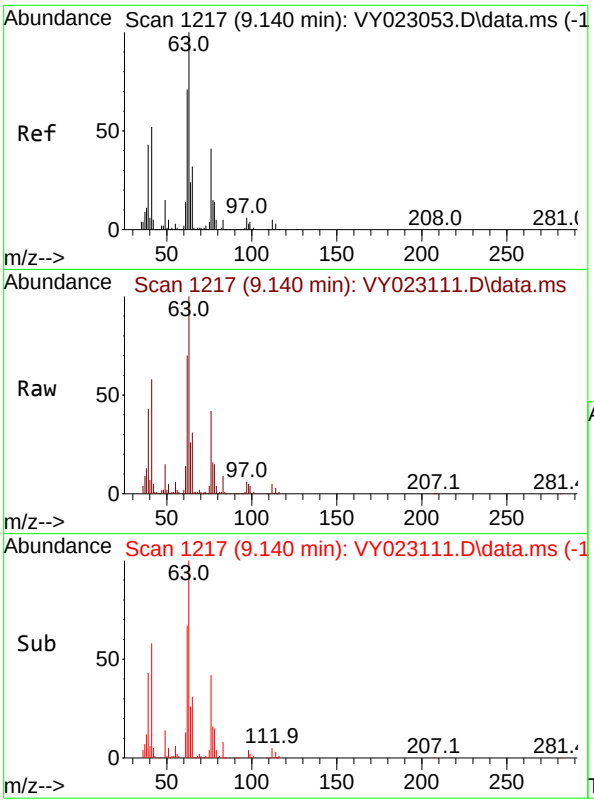


#44
Trichloroethene
Concen: 51.680 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:130 Resp: 255103

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	190.2

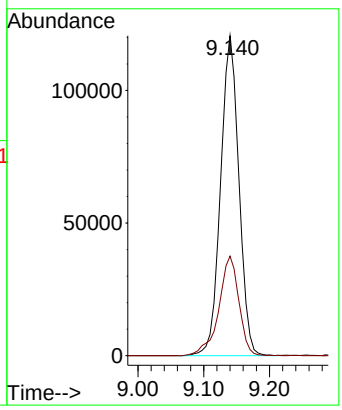




#45
1,2-Dichloropropane
Concen: 53.160 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 63 Resp: 23363

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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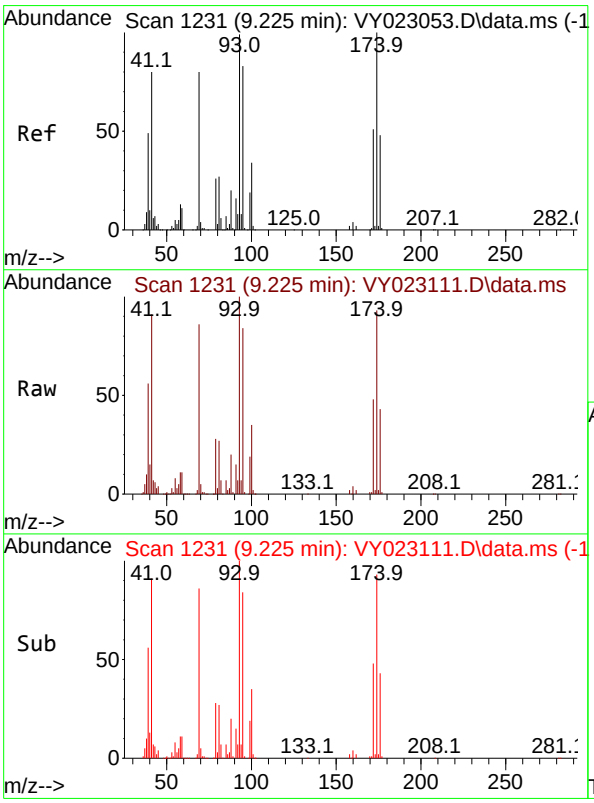
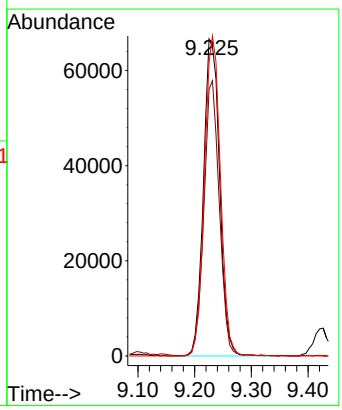
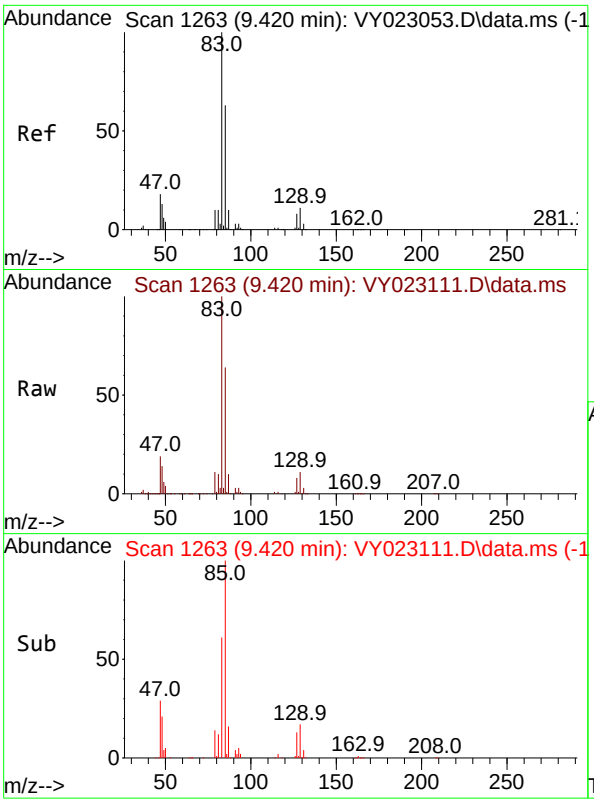


#46
Dibromomethane
Concen: 52.280 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 93 Resp: 131880

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.5	99.7
174	99.7	81.8	122.8

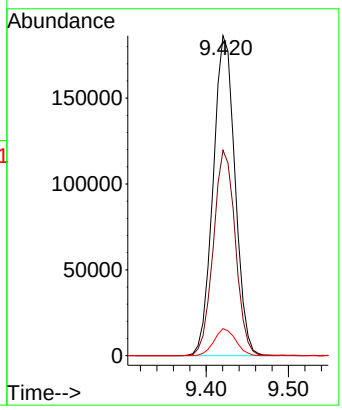




#47
Bromodichloromethane
Concen: 53.260 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 83 Resp: 34570

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.2	75.4
127	8.4	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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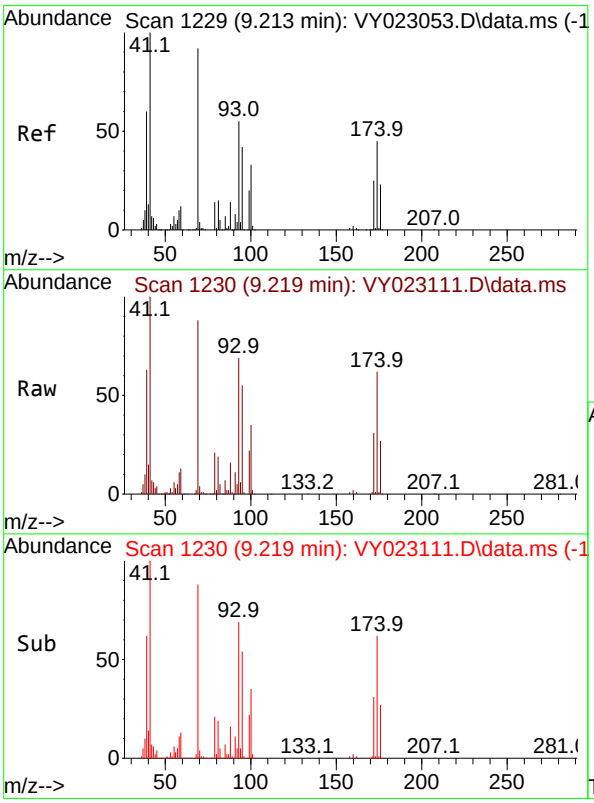
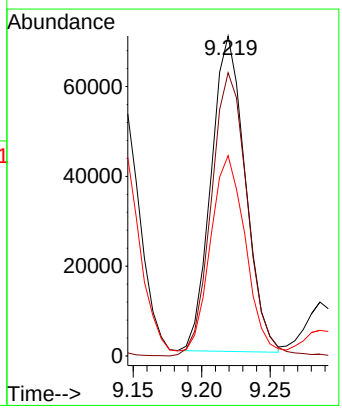
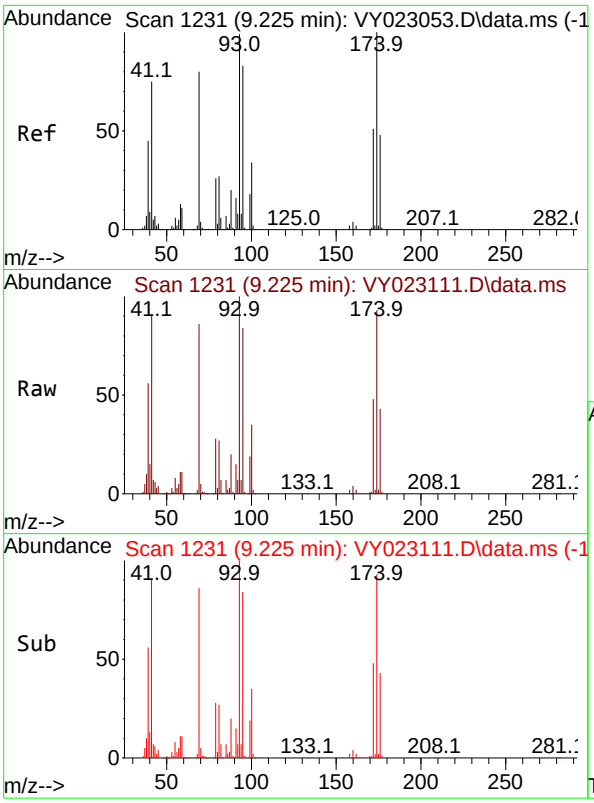


#48
Methyl methacrylate
Concen: 48.387 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 41 Resp: 121834

Ion	Ratio	Lower	Upper
41	100		
69	94.8	73.2	109.8
39	62.6	47.0	70.4





#49
1,4-Dioxane
Concen: 949.382 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 88 Resp: 2808

Ion	Ratio	Lower	Upper
88	100		
43	31.4	24.3	36.5
58	64.6	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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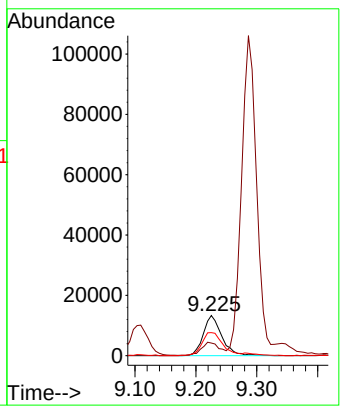
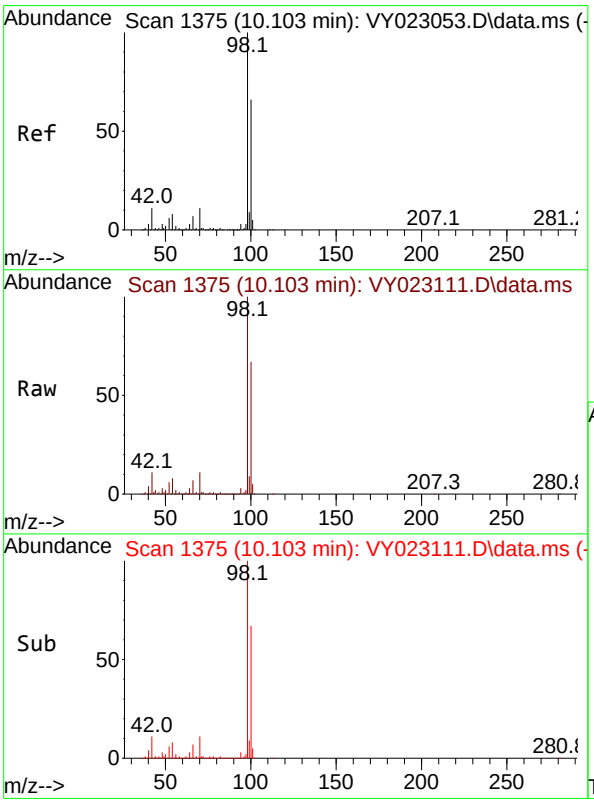
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

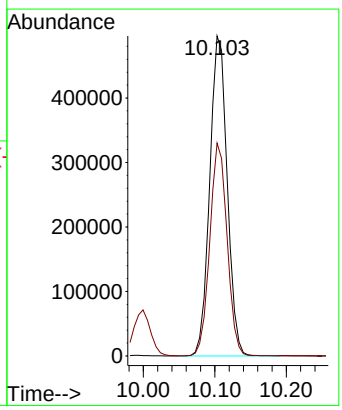


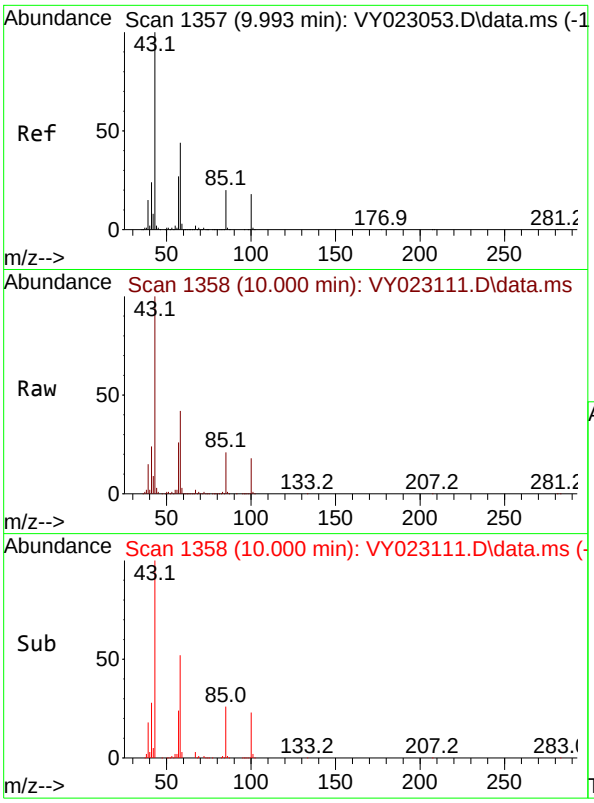


#50
Toluene-d8
Concen: 51.612 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 98 Resp: 840812

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.3	78.5

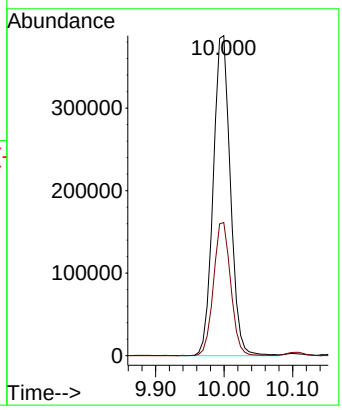




#51
4-Methyl-2-Pentanone
Concen: 248.424 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 67426

Ion	Ratio	Lower	Upper
43	100		
58	41.7	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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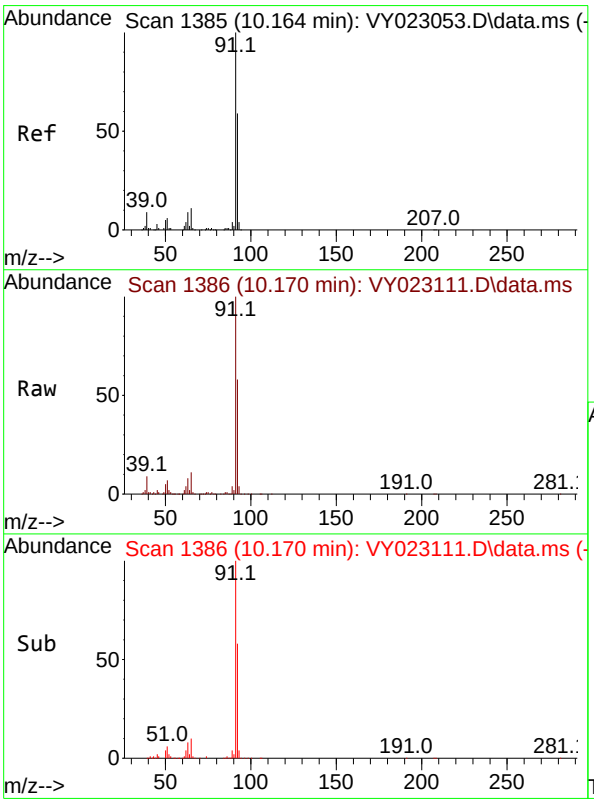
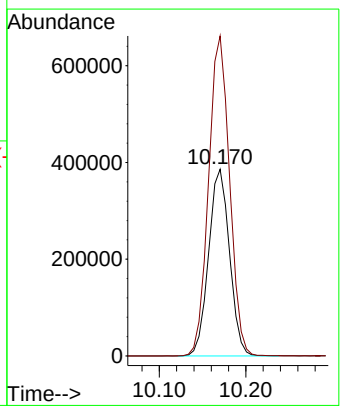
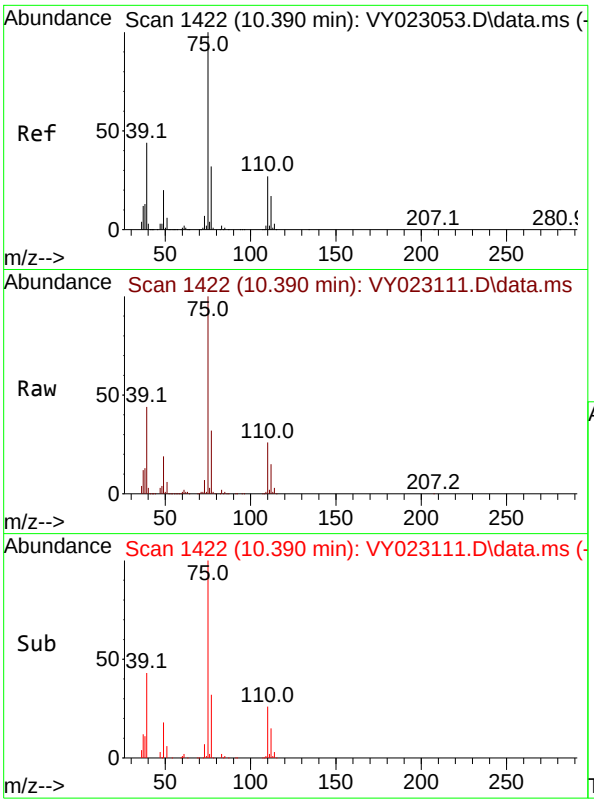


#52
Toluene
Concen: 53.288 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 92 Resp: 646468

Ion	Ratio	Lower	Upper
92	100		
91	172.4	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 51.512 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 30278

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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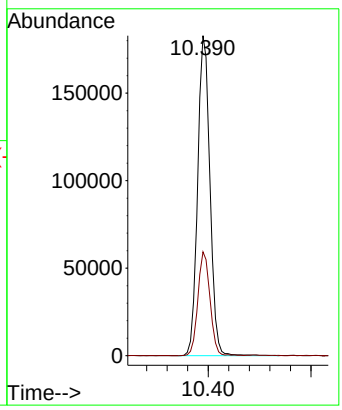
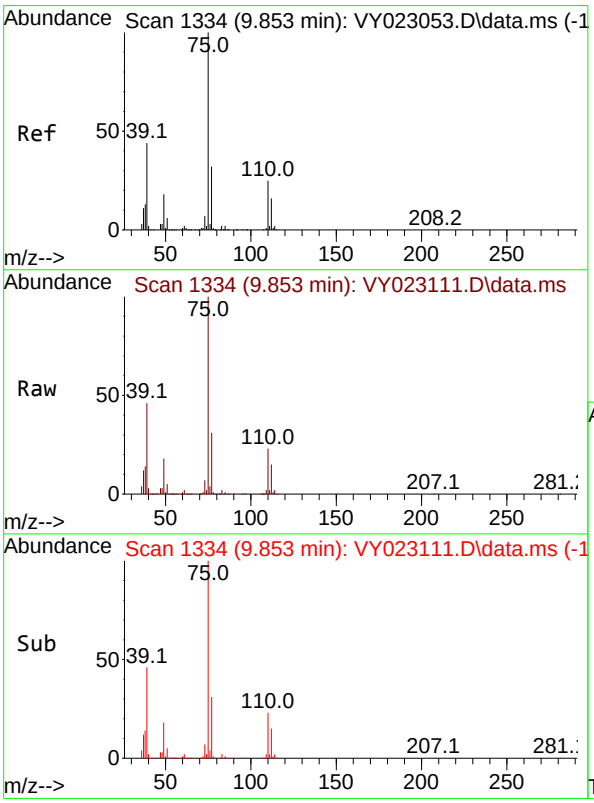
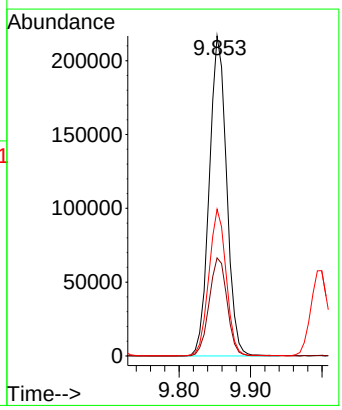


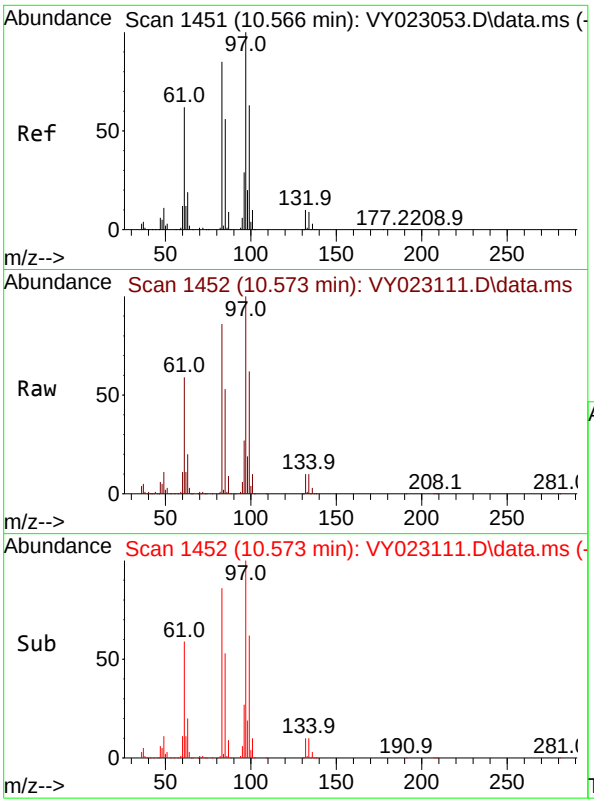


#54
cis-1,3-Dichloropropene
Concen: 52.418 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 364333

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	45.8	35.6	53.4

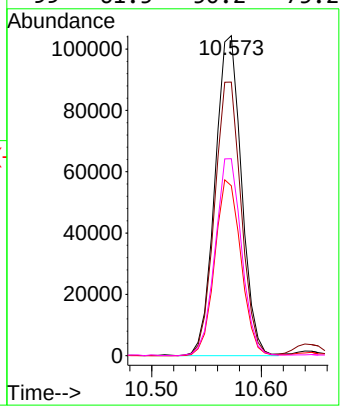




#55
1,1,2-Trichloroethane
Concen: 51.936 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 97 Resp: 17530

Ion	Ratio	Lower	Upper
97	100		
83	85.5	67.7	101.5
85	53.1	44.5	66.7
99	61.5	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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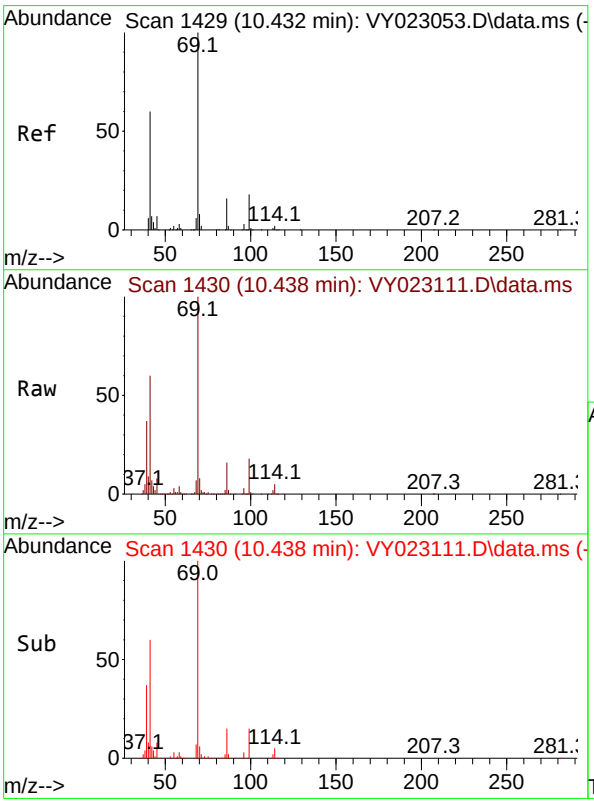
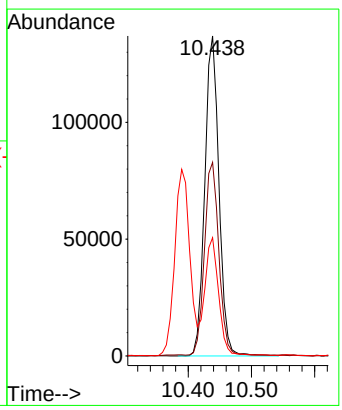
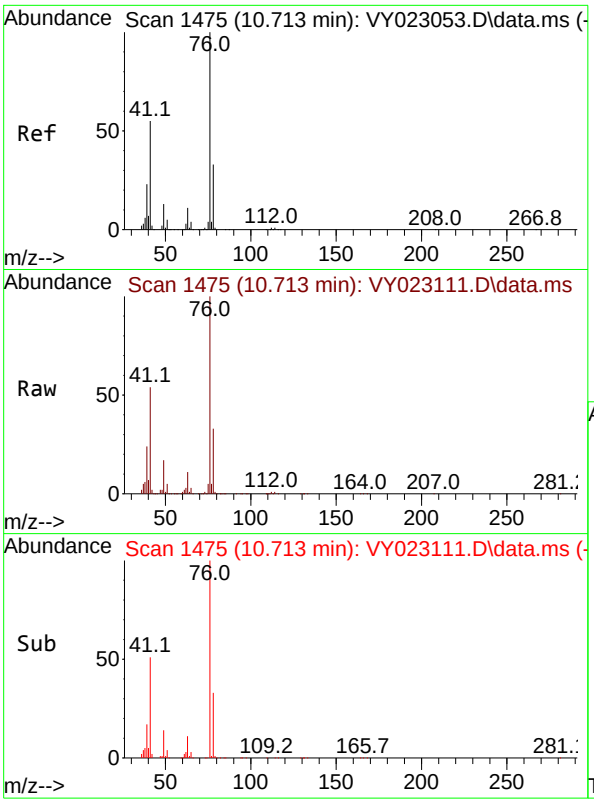


#56
Ethyl methacrylate
Concen: 49.477 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 69 Resp: 213704

Ion	Ratio	Lower	Upper
69	100		
41	61.2	48.6	72.8
39	35.7	27.0	40.4





#57
1,3-Dichloropropane
Concen: 51.352 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 76 Resp: 29396

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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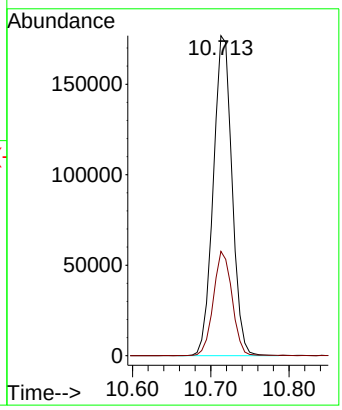
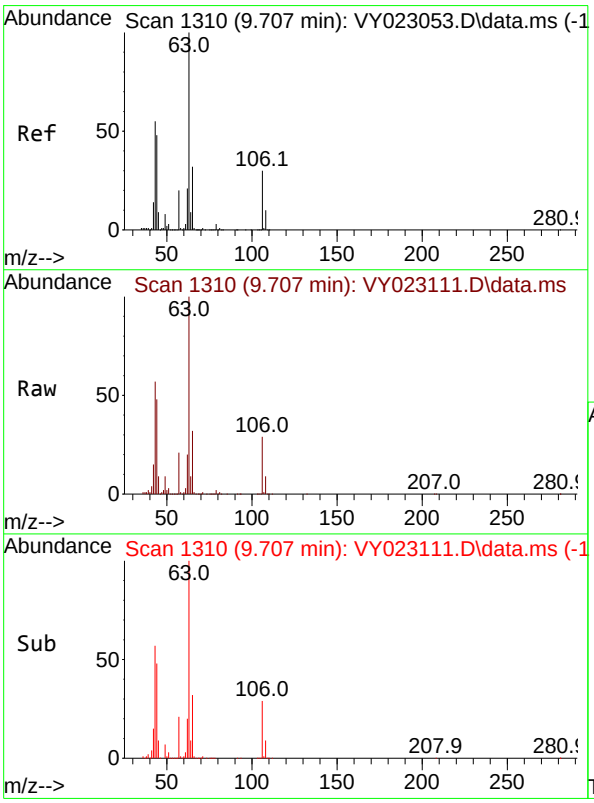
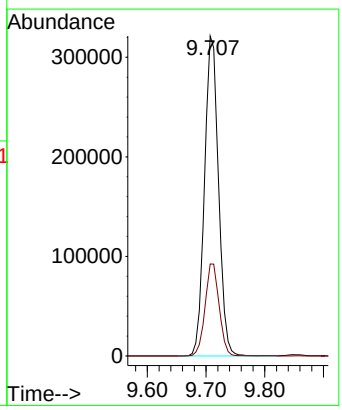


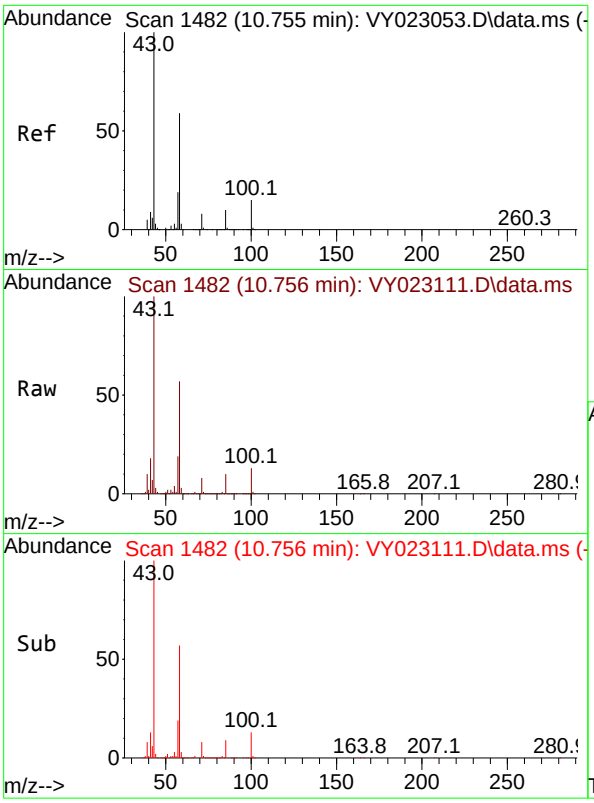


#58
2-Chloroethyl Vinyl ether
Concen: 260.887 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 63 Resp: 531531

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8





#59
2-Hexanone
Concen: 255.032 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 47134

Ion	Ratio	Lower	Upper
43	100		
58	57.9	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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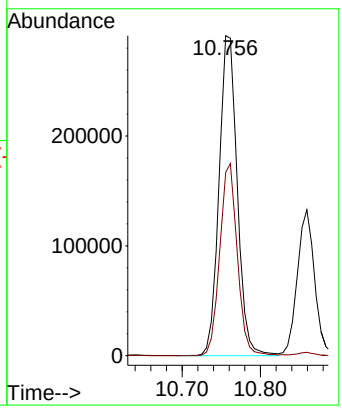
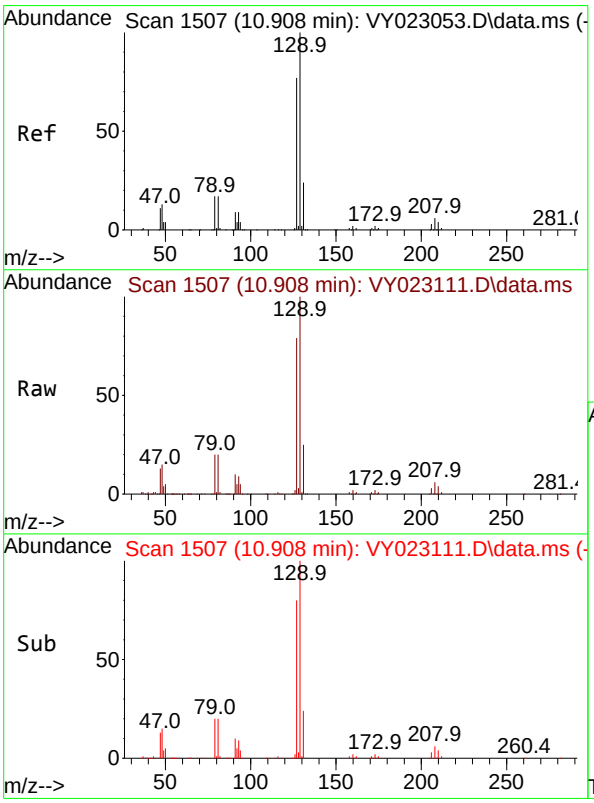
Supervised By :Mahesh Dadoda 08/19/2025

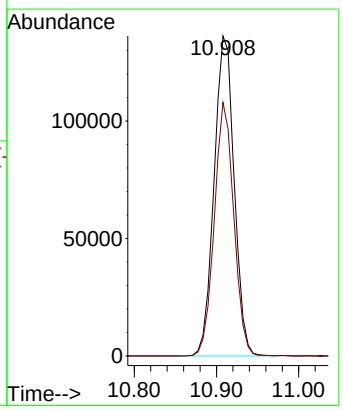


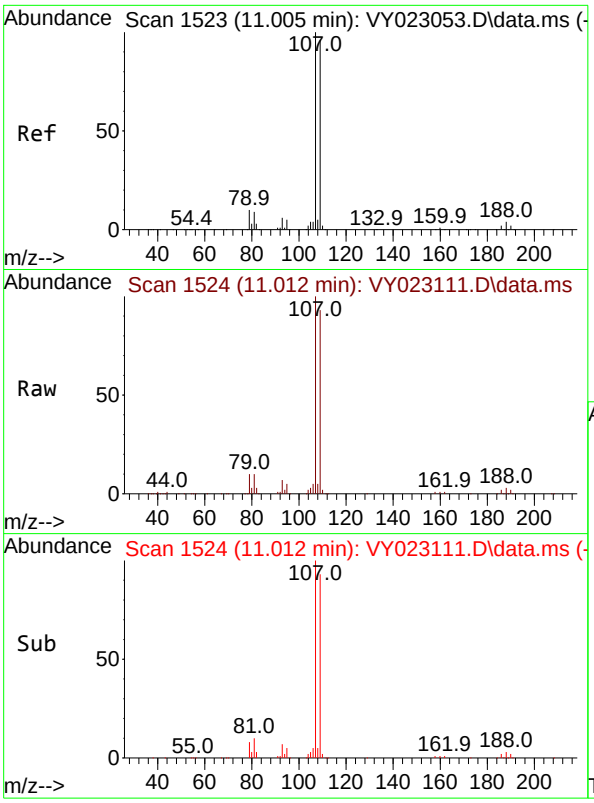


#60
Dibromochloromethane
Concen: 51.895 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:129 Resp: 231138

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 50.454 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:107 Resp: 16006

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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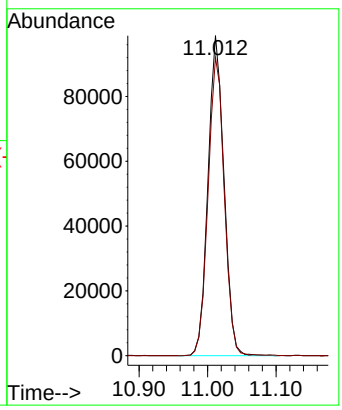
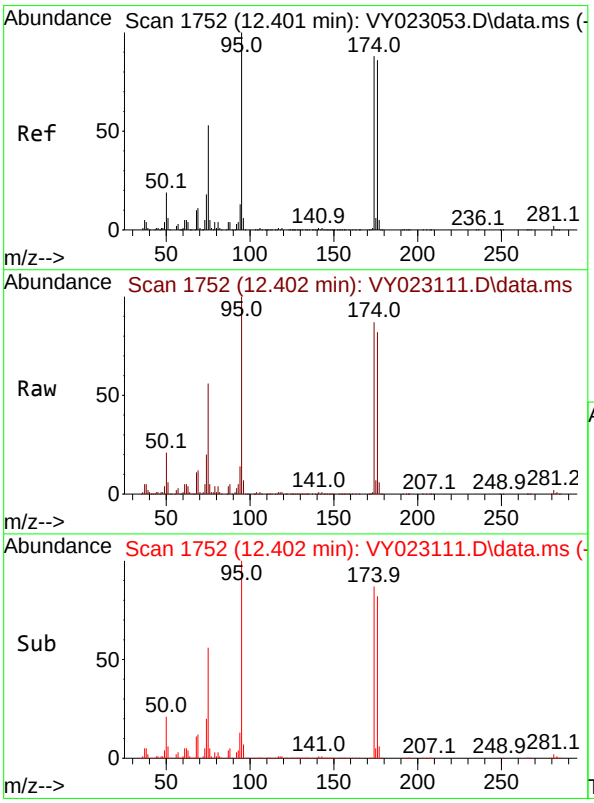
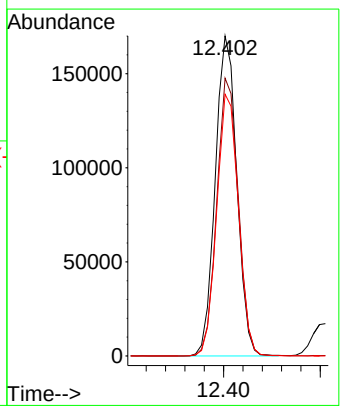


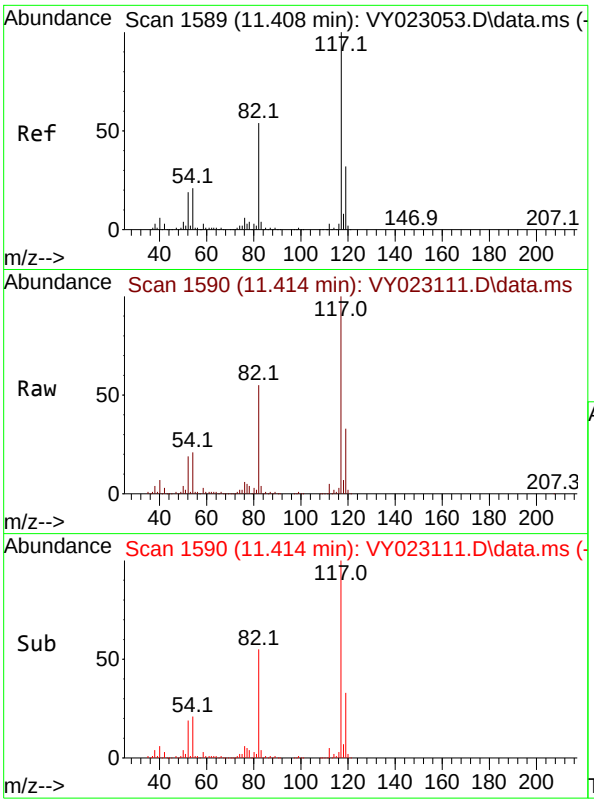


#62
4-Bromofluorobenzene
Concen: 50.079 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 95 Resp: 262368

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	171.6
176	82.7	0.0	167.6

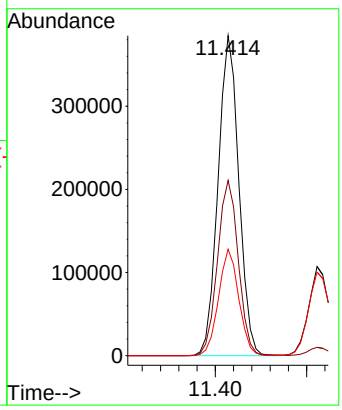




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:117 Resp: 60734

Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.4	65.0
119	33.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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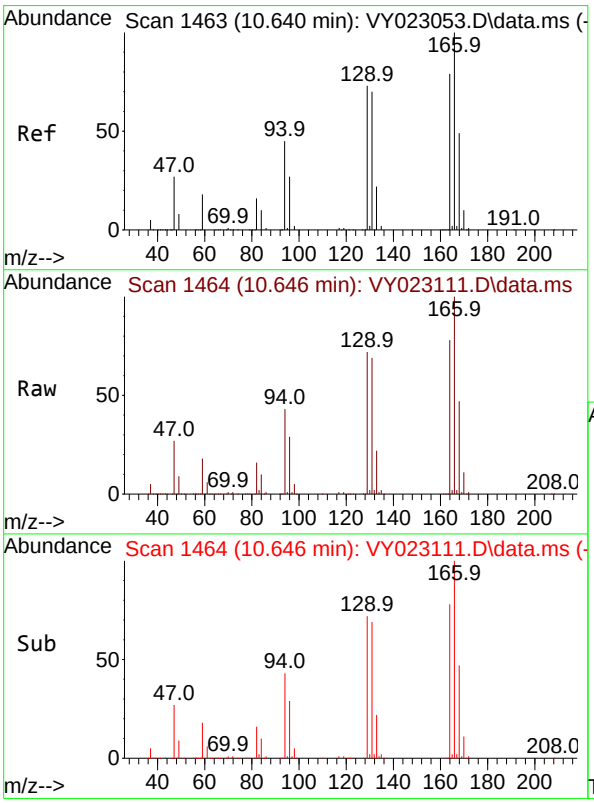
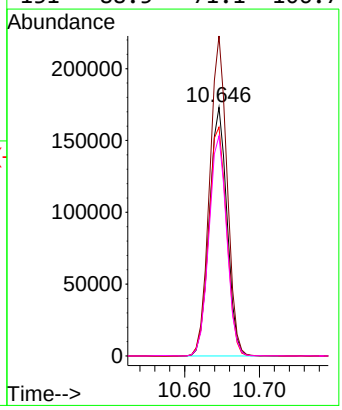
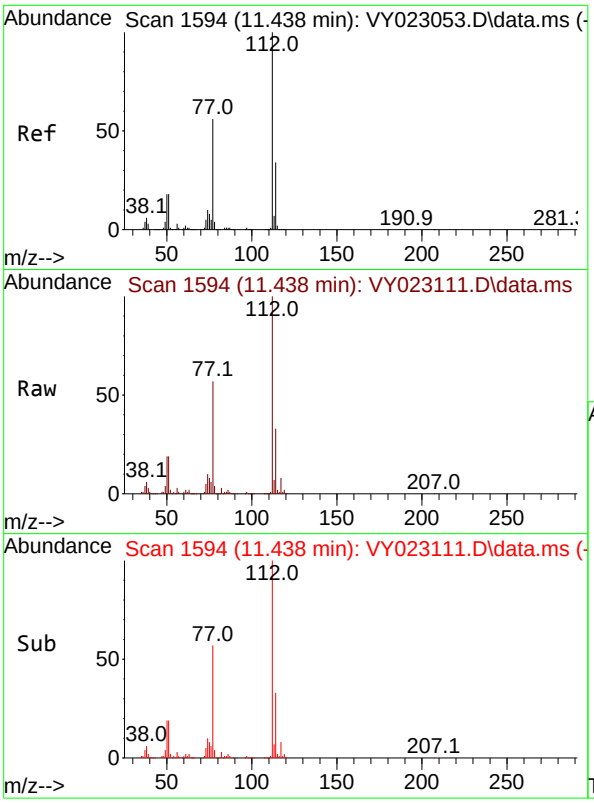


#64
Tetrachloroethene
Concen: 52.484 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:164 Resp: 284630

Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.1	151.7
129	92.0	74.0	111.0
131	88.5	71.1	106.7

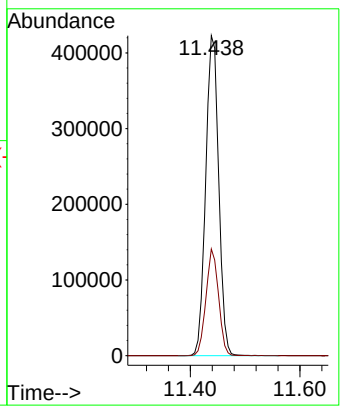




#65
Chlorobenzene
Concen: 52.949 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:112 Resp: 69366

Ion	Ratio	Lower	Upper
112	100		
114	33.3	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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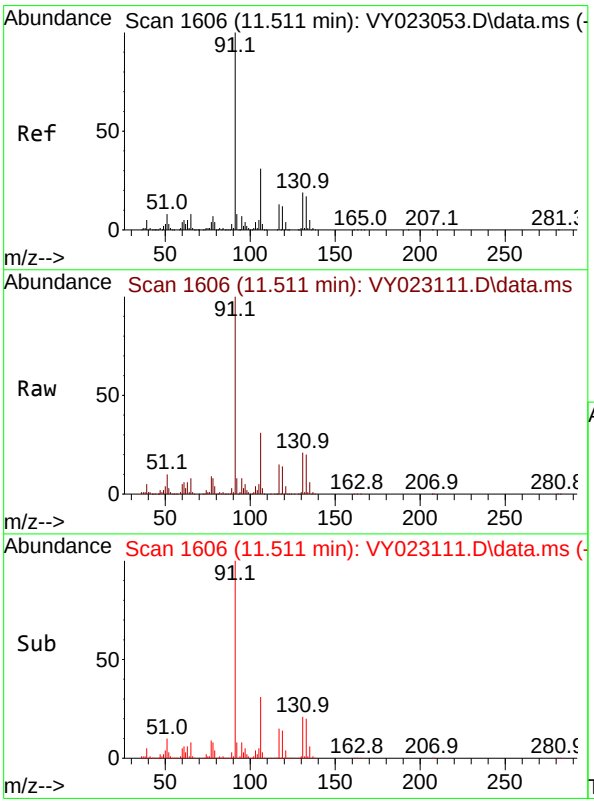
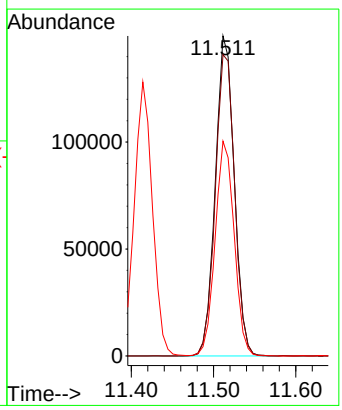
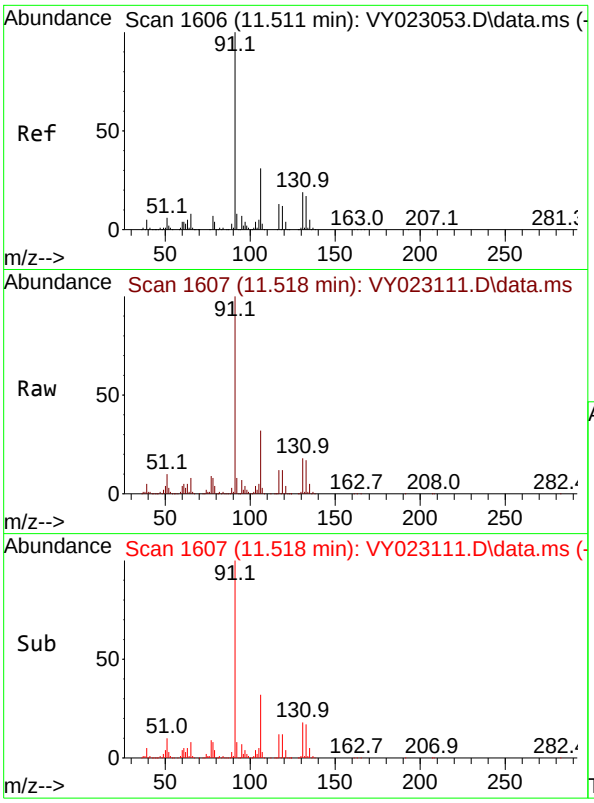


#66
1,1,1,2-Tetrachloroethane
Concen: 53.813 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:131 Resp: 239263

Ion	Ratio	Lower	Upper
131	100		
133	96.8	46.9	140.6
119	67.6	33.2	99.6

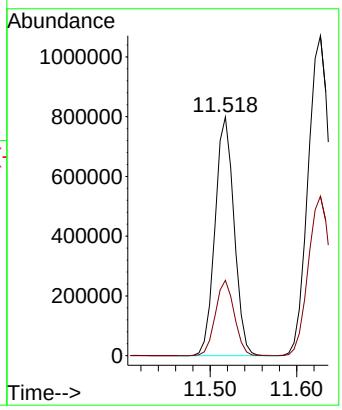




#67
Ethyl Benzene
Concen: 54.111 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 121991

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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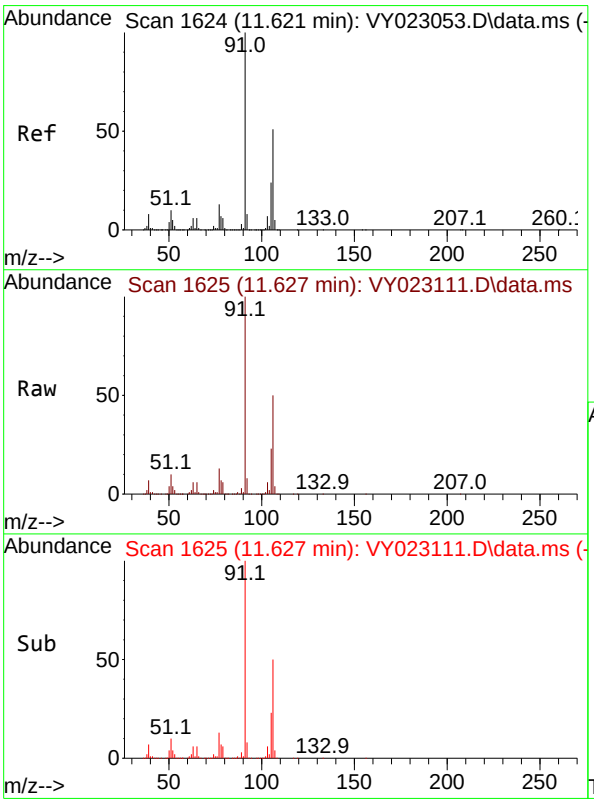
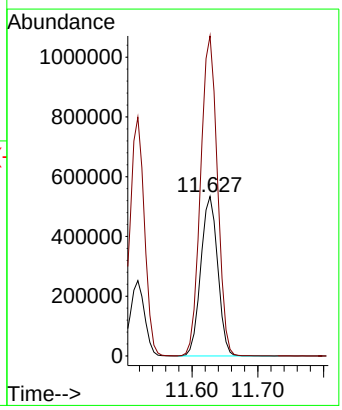
Supervised By :Mahesh Dadoda 08/19/2025

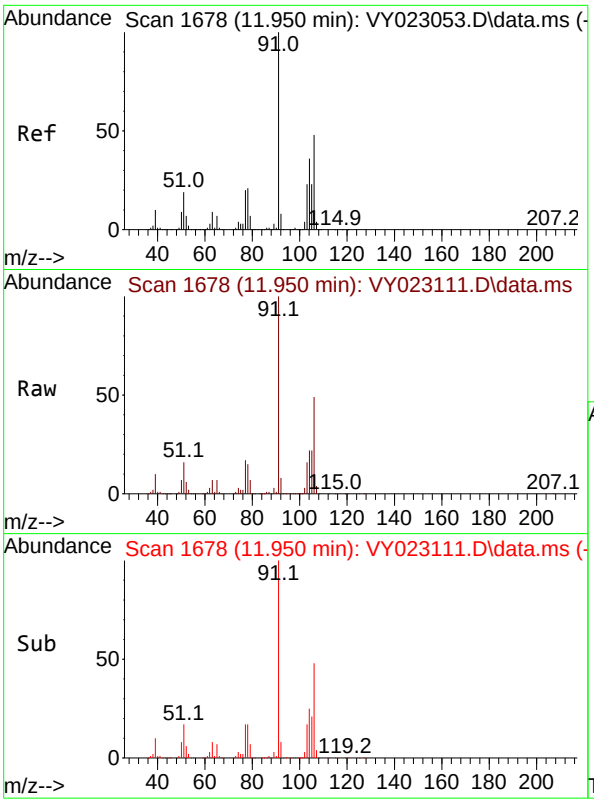


#68
m/p-Xylenes
Concen: 108.283 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:106 Resp: 953446

Ion	Ratio	Lower	Upper
106	100		
91	199.4	158.6	238.0





#69
o-Xylene
Concen: 54.193 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:106 Resp: 44692

Ion	Ratio	Lower	Upper
106	100		
91	206.9	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
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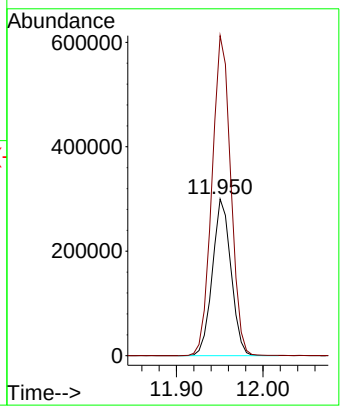
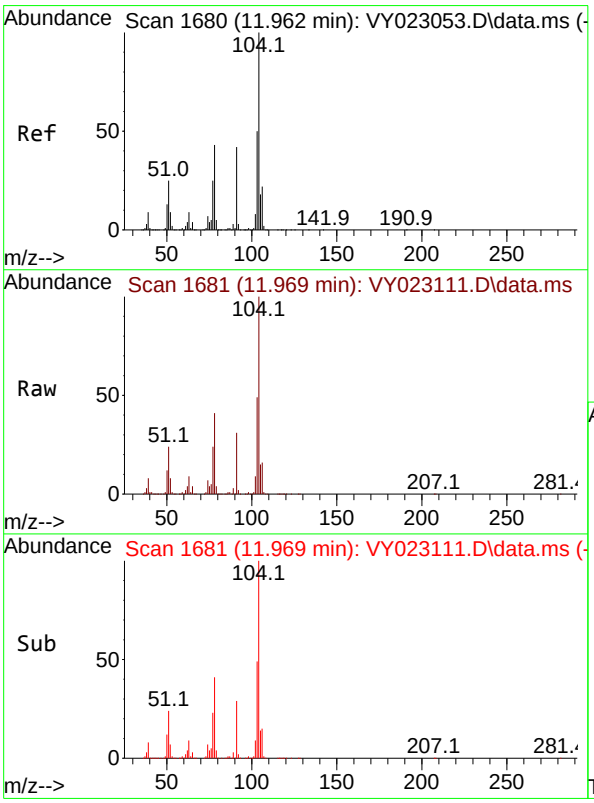
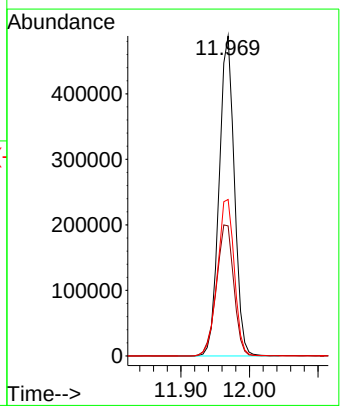


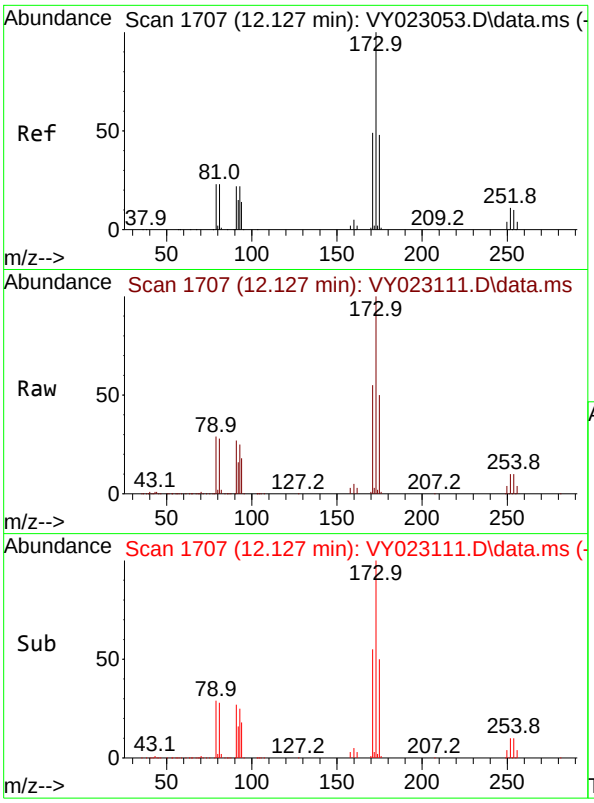


#70
Styrene
Concen: 55.770 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:104 Resp: 752144

Ion	Ratio	Lower	Upper
104	100		
78	46.7	38.5	57.7
103	54.3	43.7	65.5





#71
Bromoform
Concen: 49.544 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:173 Resp: 12874

Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.9	71.7
254	0.1	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
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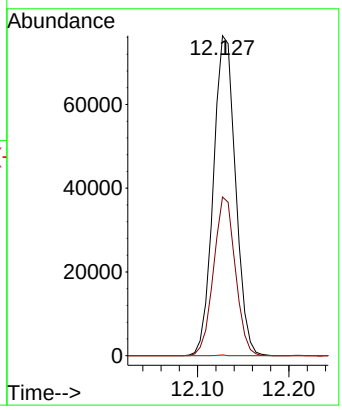
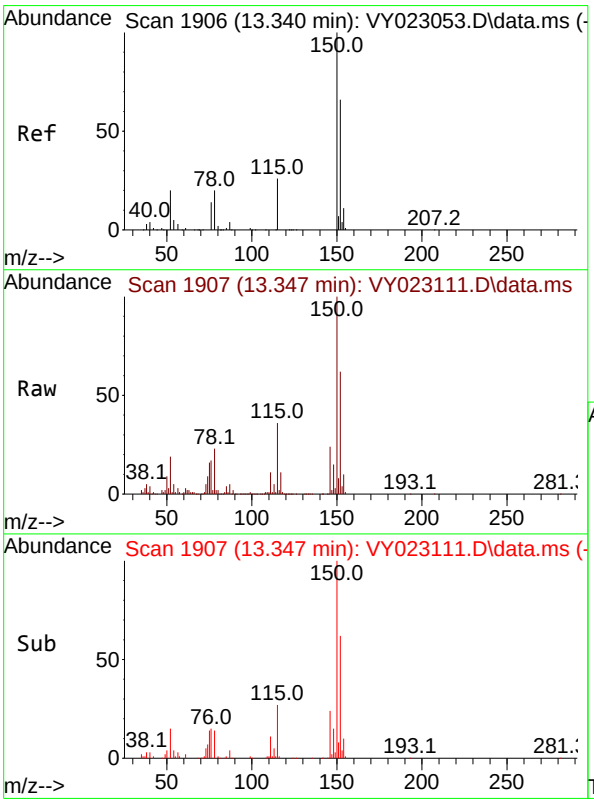
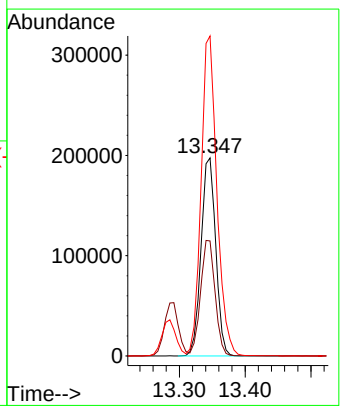


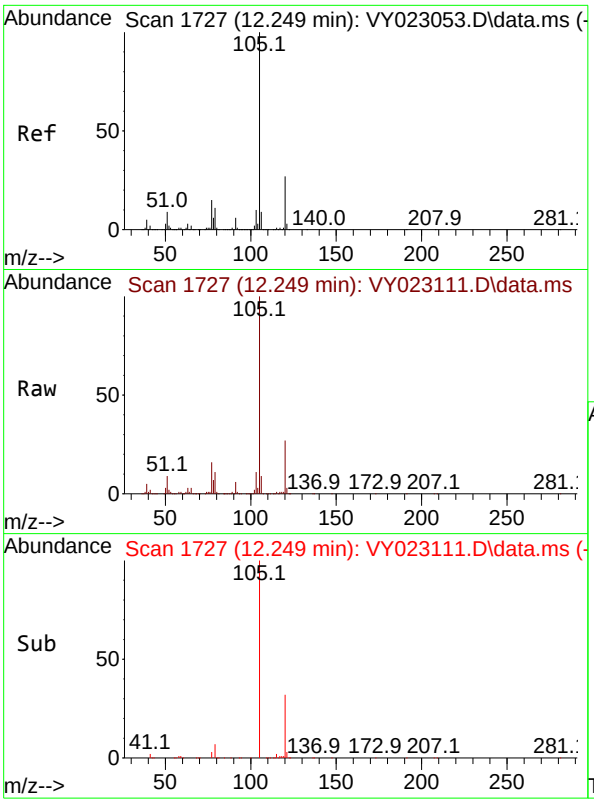


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:152 Resp: 306948

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.2	84.6
150	174.0	0.0	348.0

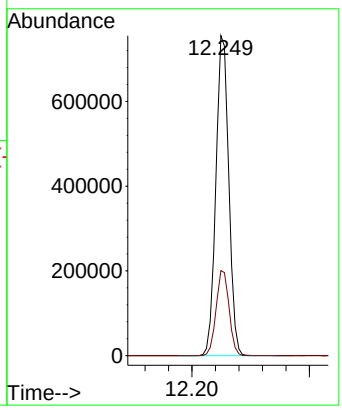




#73
Isopropylbenzene
Concen: 52.906 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:105 Resp: 114616

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2



Instrument :
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ClientSampleId :
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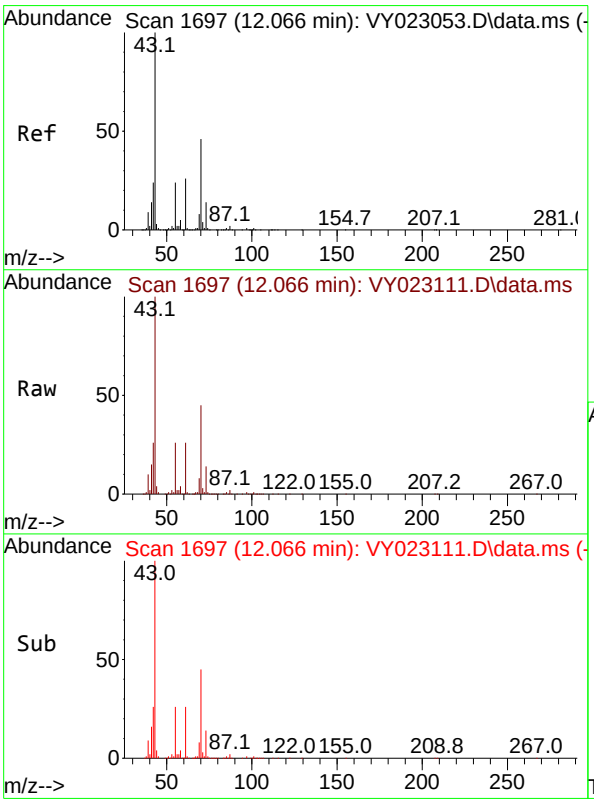
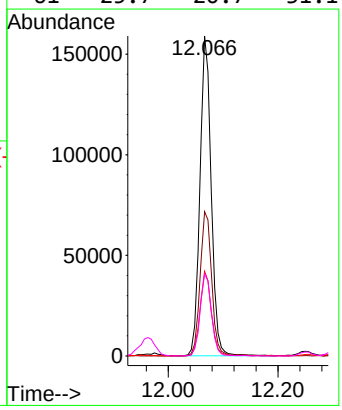
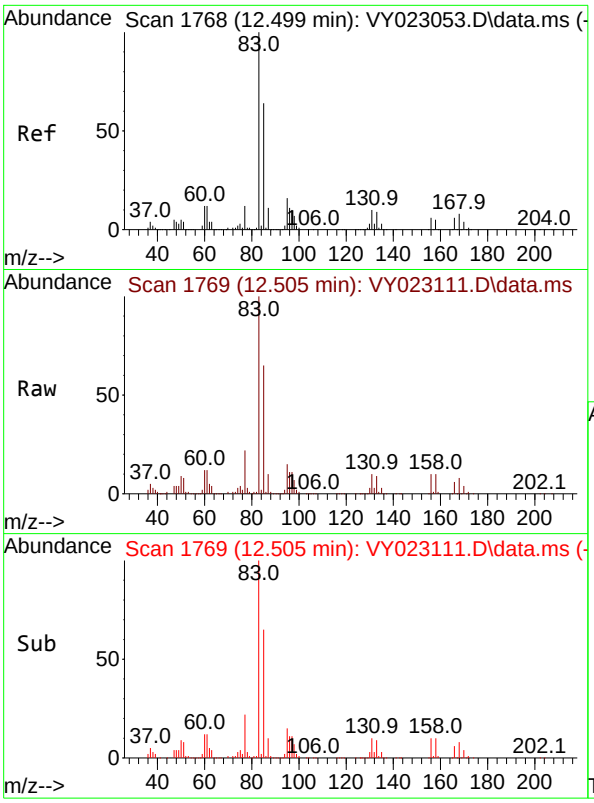


#74
N-amyl acetate
Concen: 49.257 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 226300

Ion	Ratio	Lower	Upper
43	100		
70	46.7	37.5	56.3
55	26.9	20.7	31.1
61	25.7	20.7	31.1

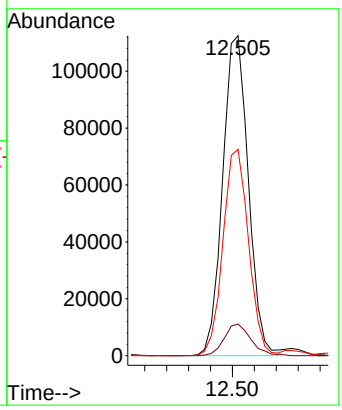




#75
1,1,2,2-Tetrachloroethane
Concen: 49.405 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 83 Resp: 18275

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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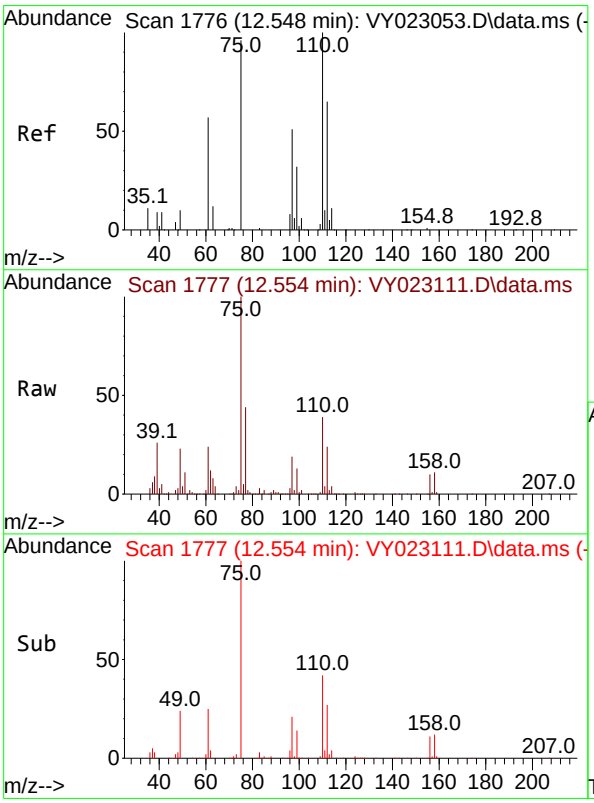
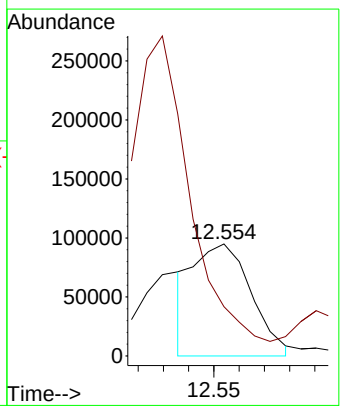
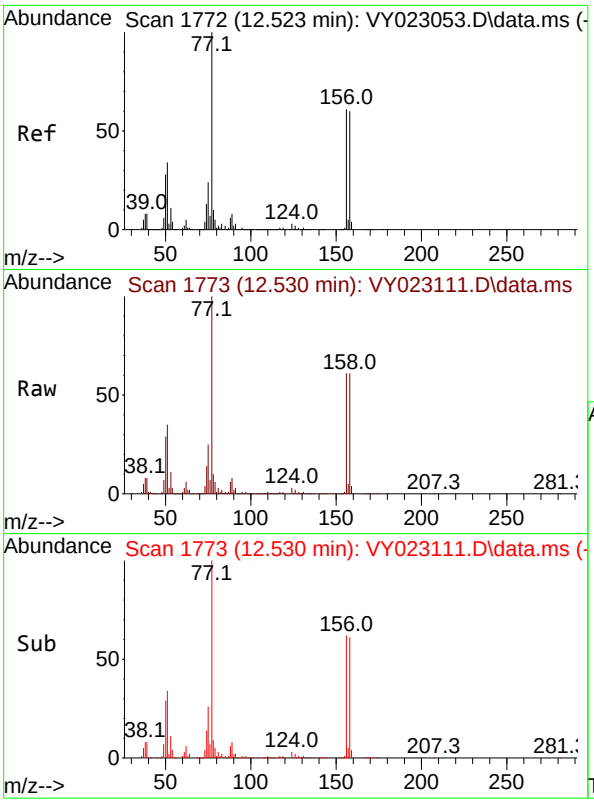


#76
1,2,3-Trichloropropane
Concen: 51.159 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 151552

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

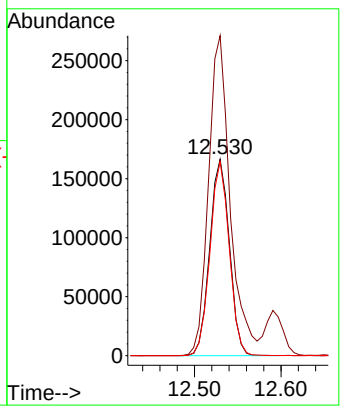




#77
Bromobenzene
Concen: 50.833 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:156 Resp: 26272

Ion	Ratio	Lower	Upper
156	100		
77	179.1	88.1	264.4
158	96.7	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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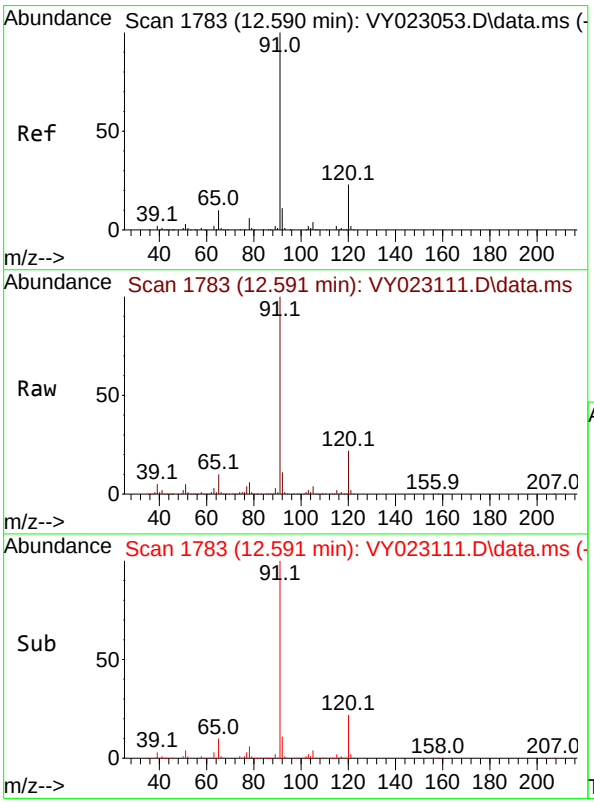
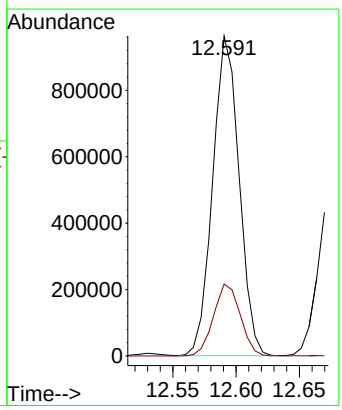
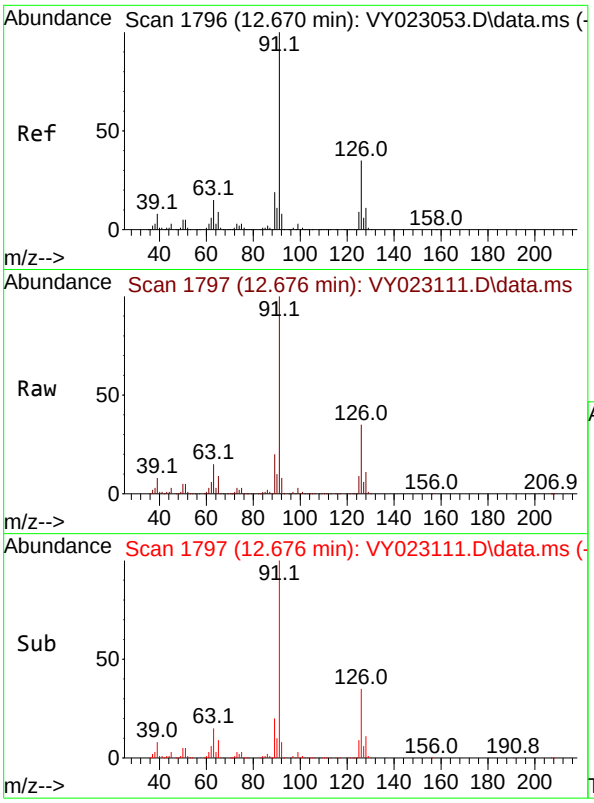


#78
n-propylbenzene
Concen: 54.137 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 1396330

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5

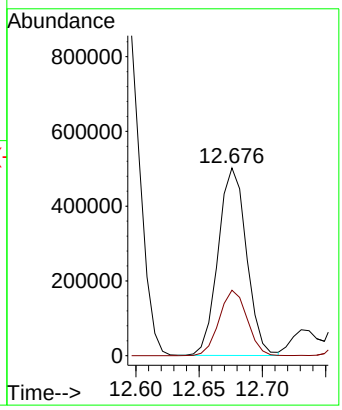




#79
2-Chlorotoluene
Concen: 52.993 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 78312

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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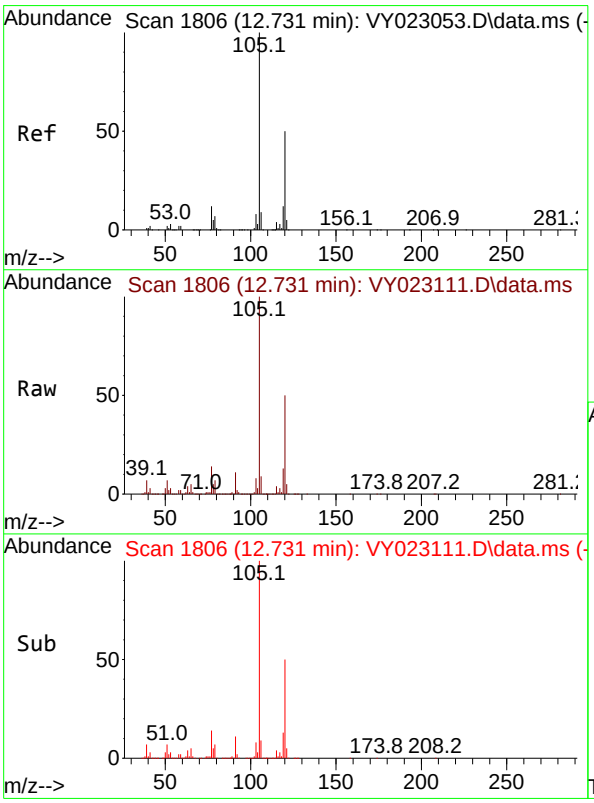
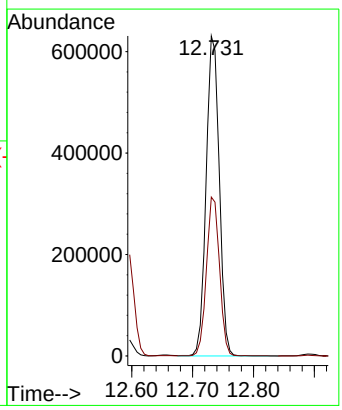
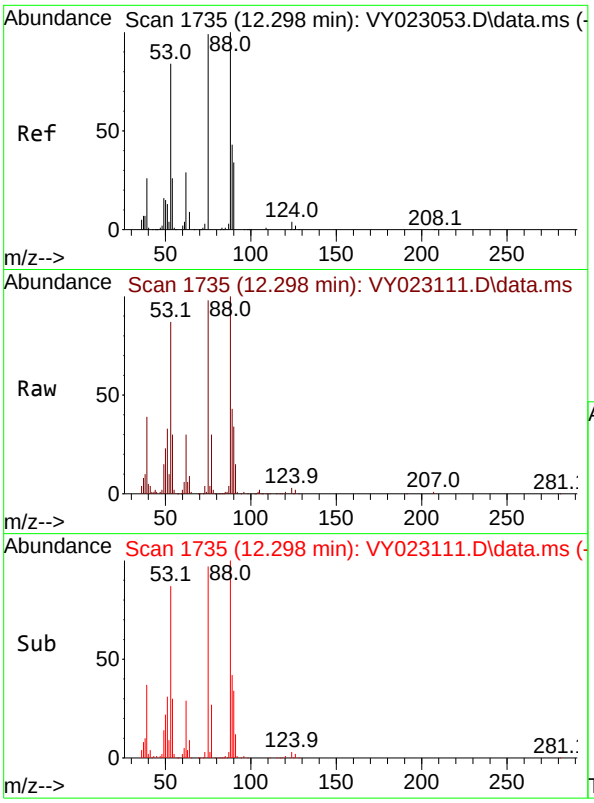


#80
1,3,5-Trimethylbenzene
Concen: 53.915 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:105 Resp: 943980

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 48.961 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 5991

Ion	Ratio	Lower	Upper
75	100		
53	89.0	70.8	106.2
89	45.9	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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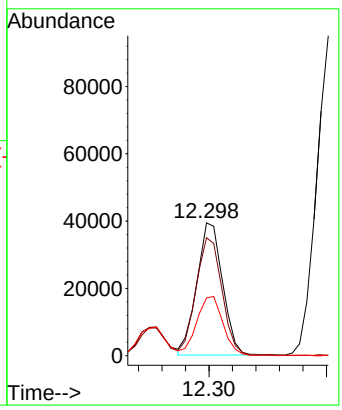
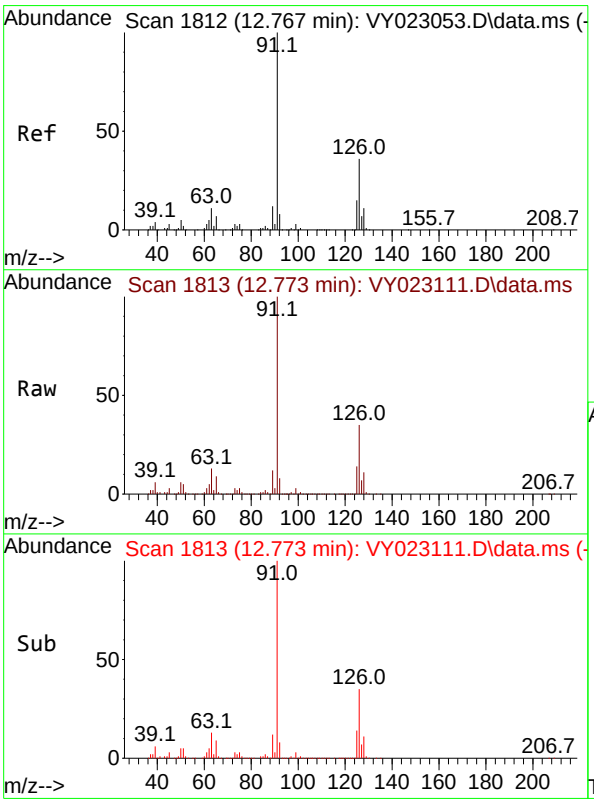
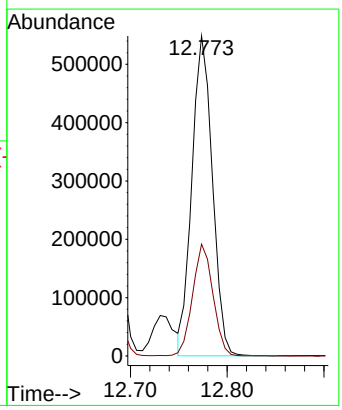


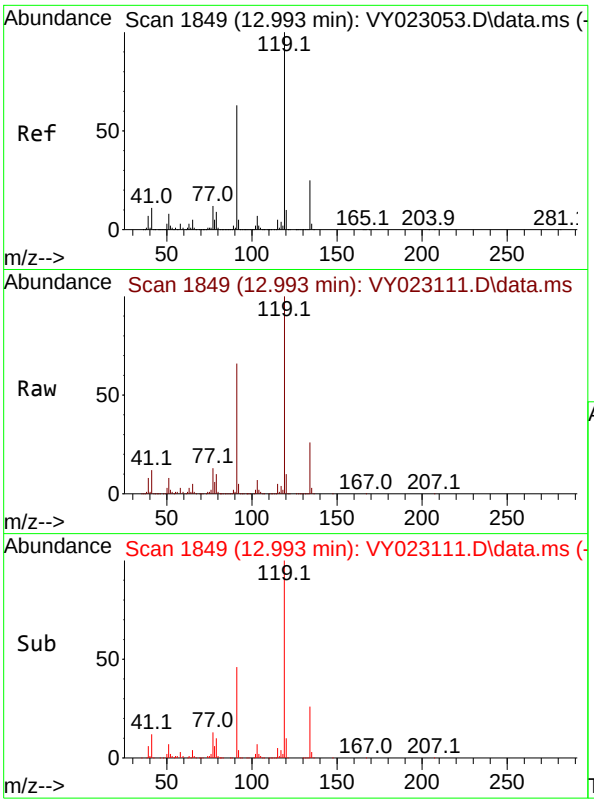


#82
4-Chlorotoluene
Concen: 52.611 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 806542

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0

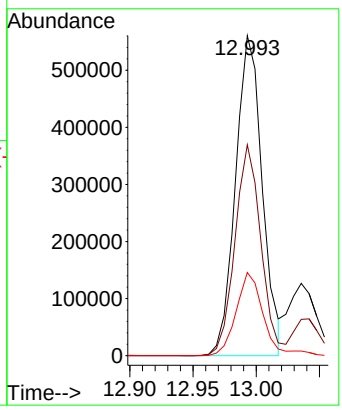




#83
tert-Butylbenzene
Concen: 52.171 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:119 Resp: 82500

Ion	Ratio	Lower	Upper
119	100		
91	64.4	31.6	94.8
134	26.5	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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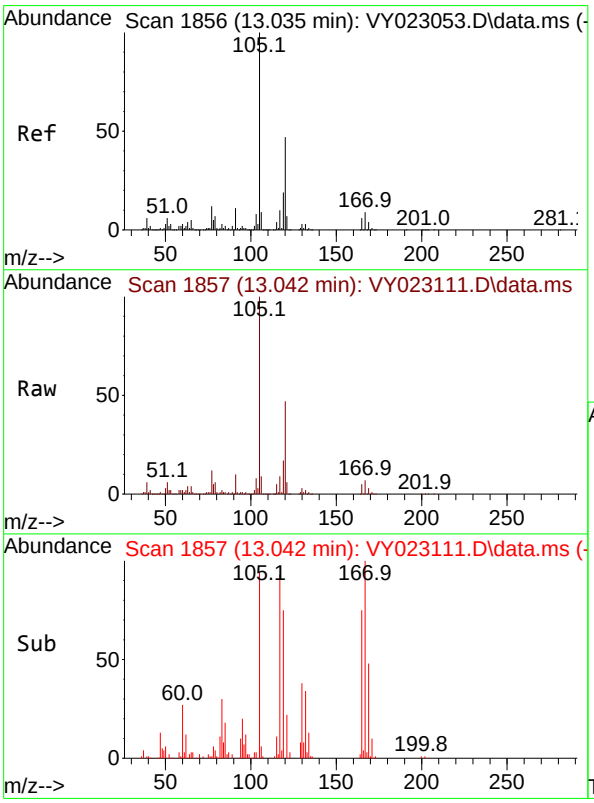
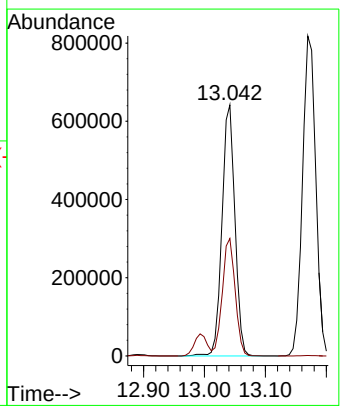
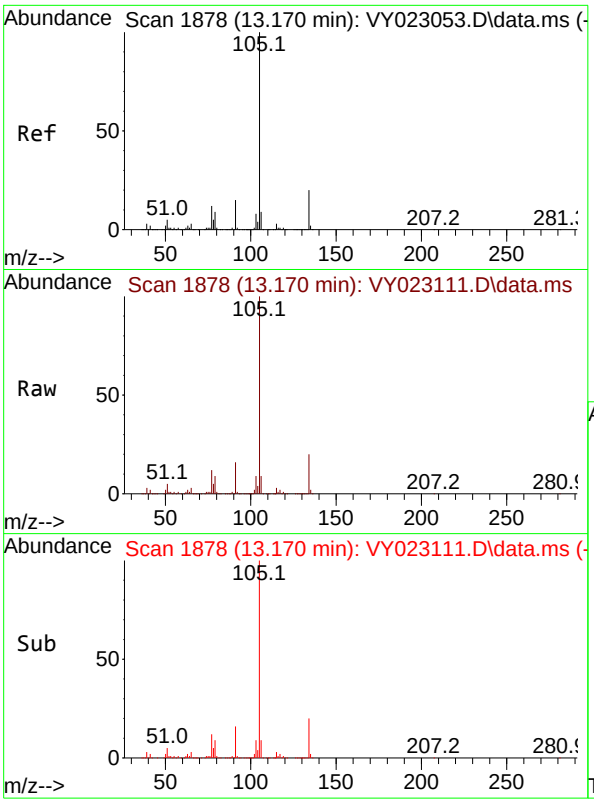


#84
1,2,4-Trimethylbenzene
Concen: 54.277 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:105 Resp: 946009

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0

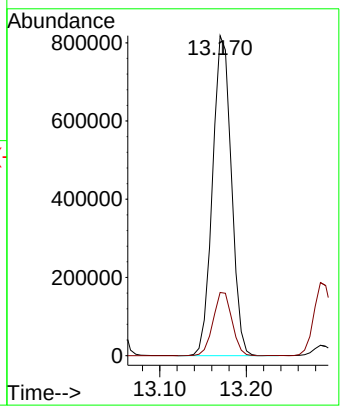




#85
sec-Butylbenzene
Concen: 53.143 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:105 Resp: 123448

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
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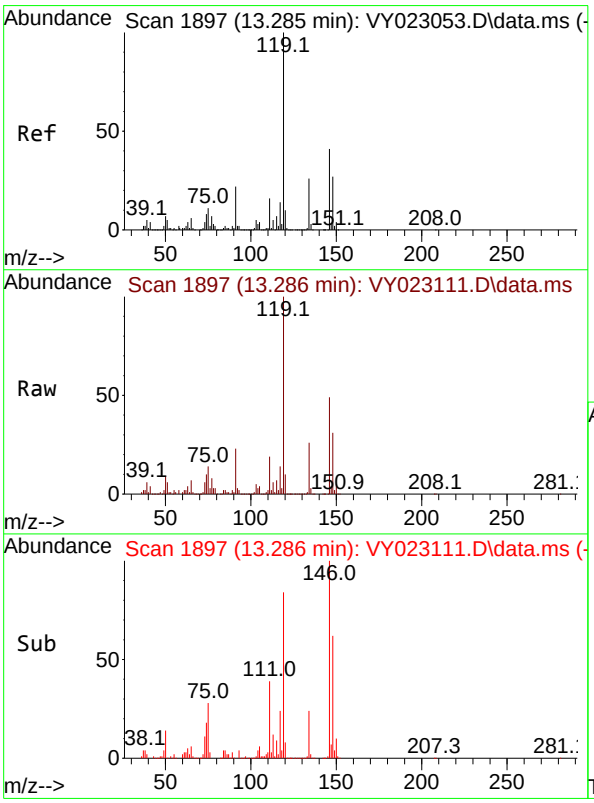
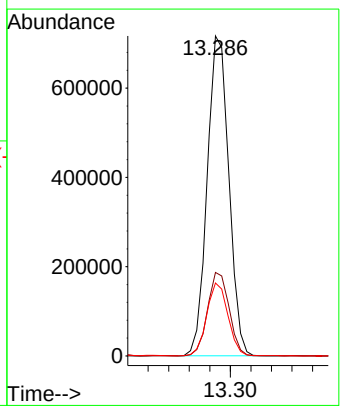
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

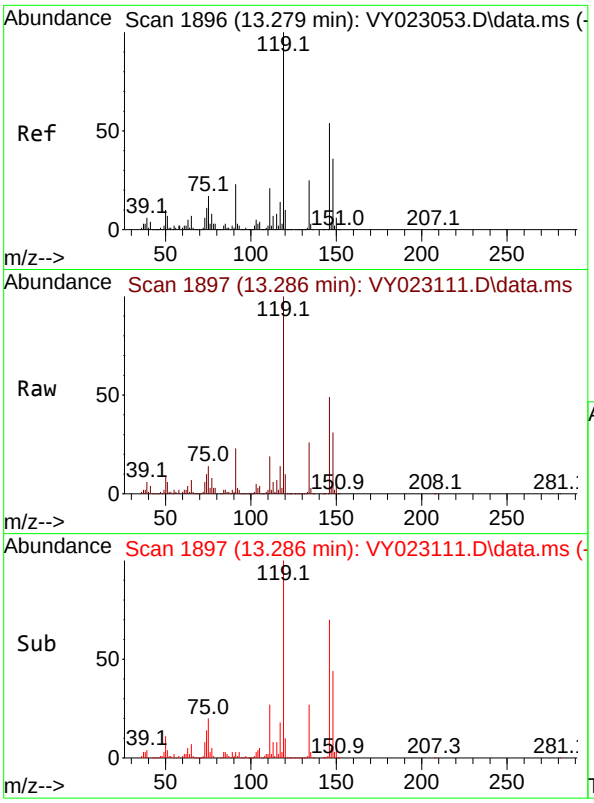


#86
p-Isopropyltoluene
Concen: 54.334 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:119 Resp: 1047646

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.2	39.6
91	22.4	11.3	33.8

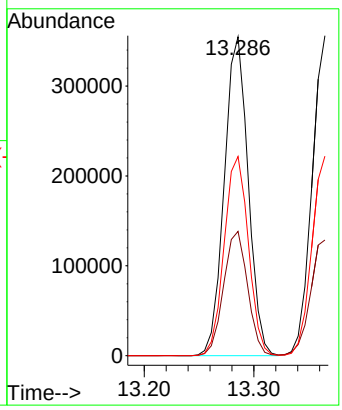




#87
1,3-Dichlorobenzene
Concen: 52.641 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:146 Resp: 53652

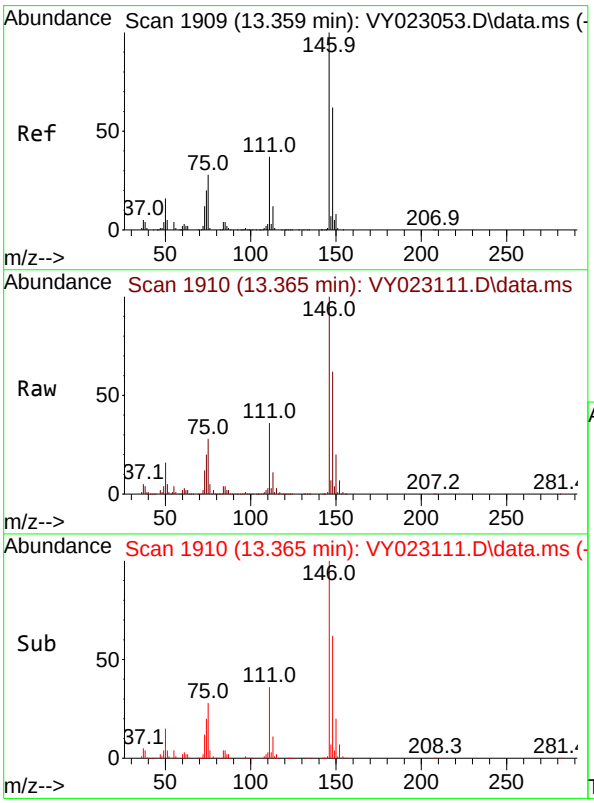
Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.6	58.7
148	63.4	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

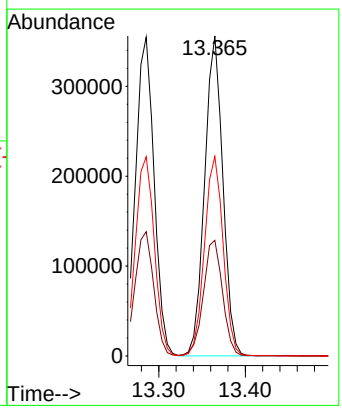
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

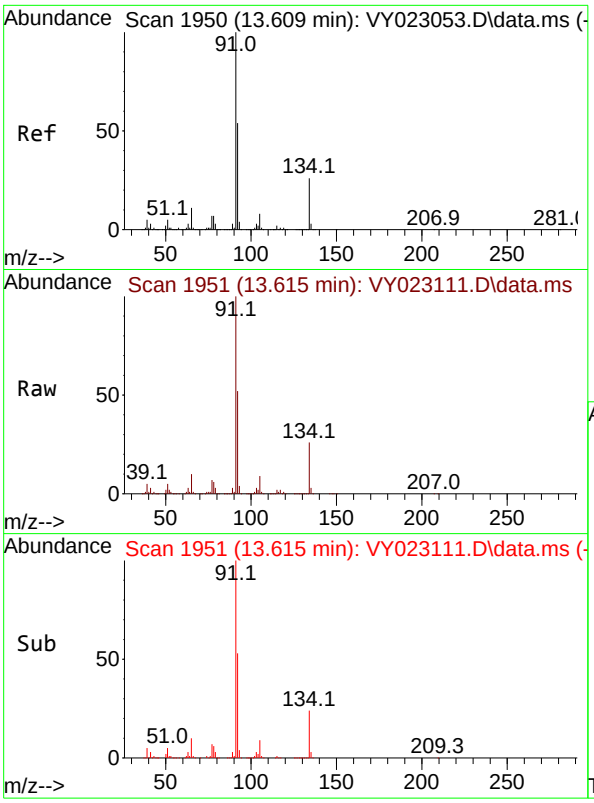


#88
1,4-Dichlorobenzene
Concen: 51.501 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:146 Resp: 520698

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	63.9	31.6	94.7

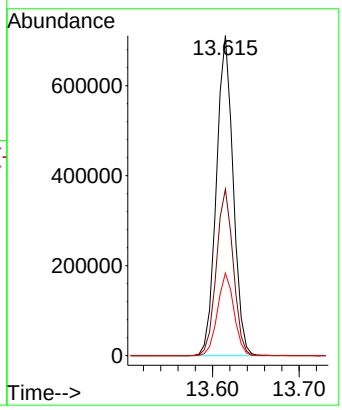




#89
n-Butylbenzene
Concen: 53.939 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 95521

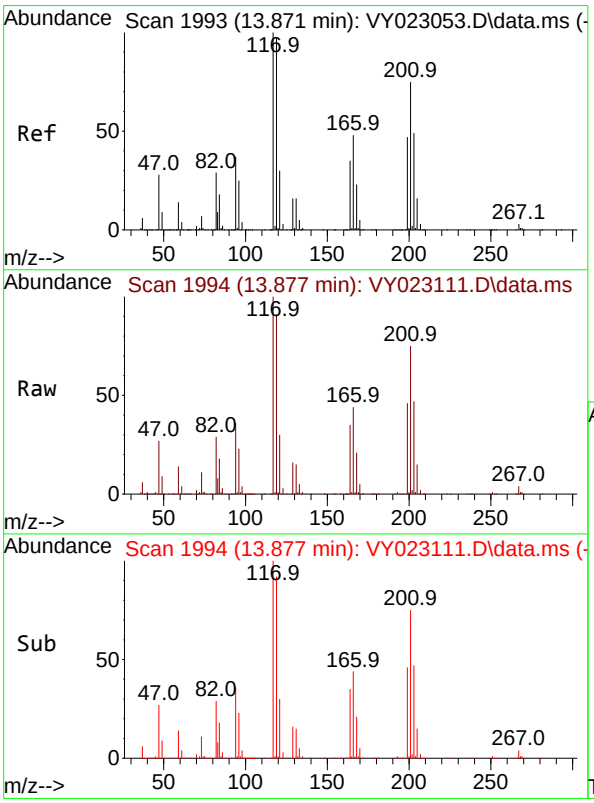
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.9	80.7
134	25.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

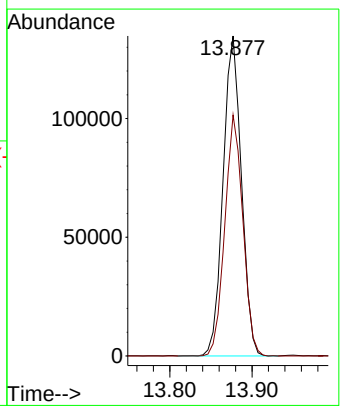
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

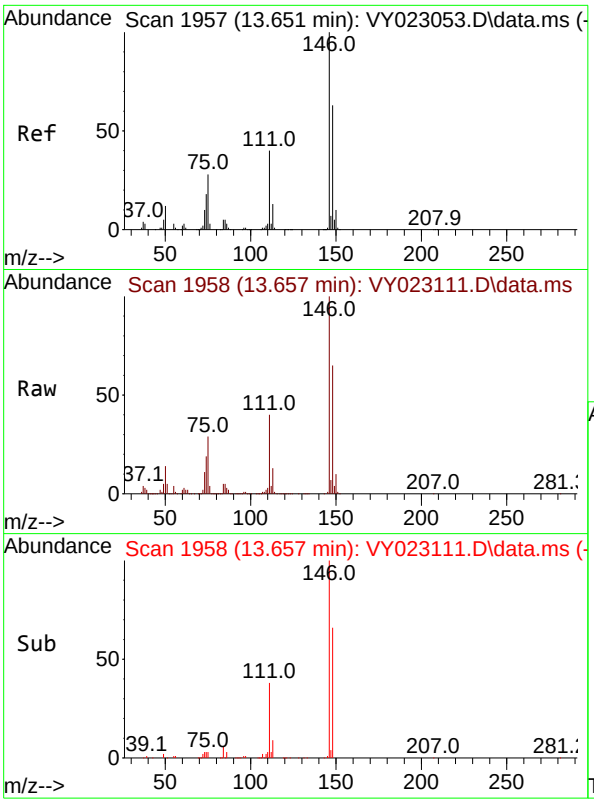


#90
Hexachloroethane
Concen: 53.061 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:117 Resp: 209441

Ion	Ratio	Lower	Upper
117	100		
201	74.2	38.4	115.1

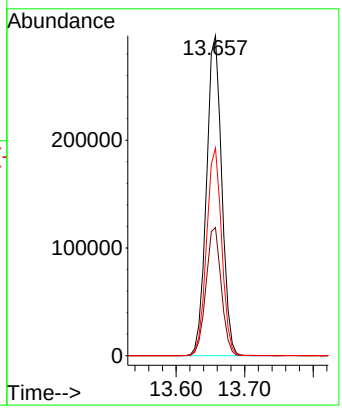




#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:146 Resp: 46023

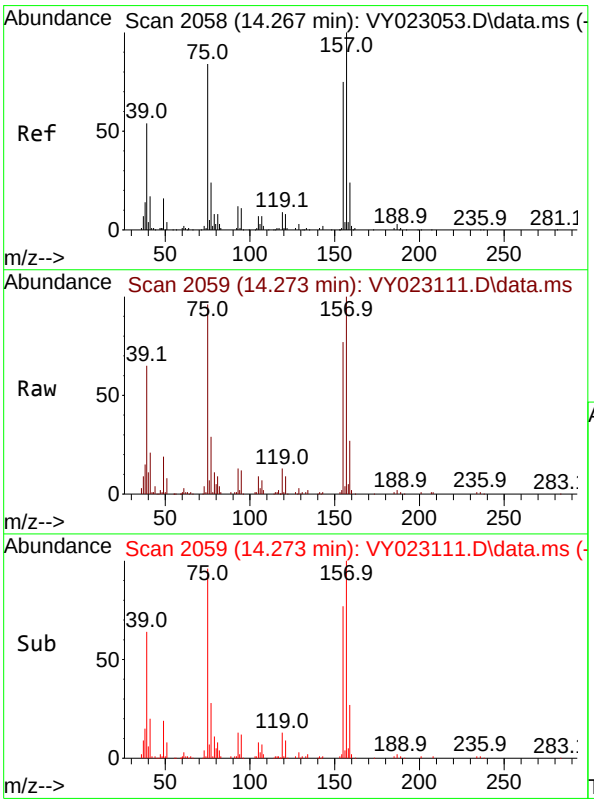
Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.3	60.8
148	64.3	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

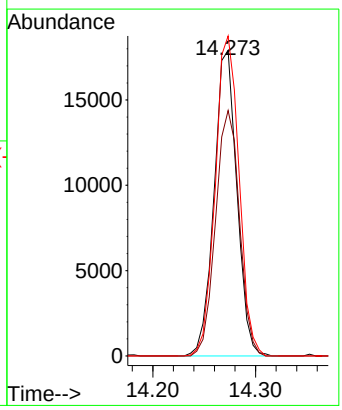
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

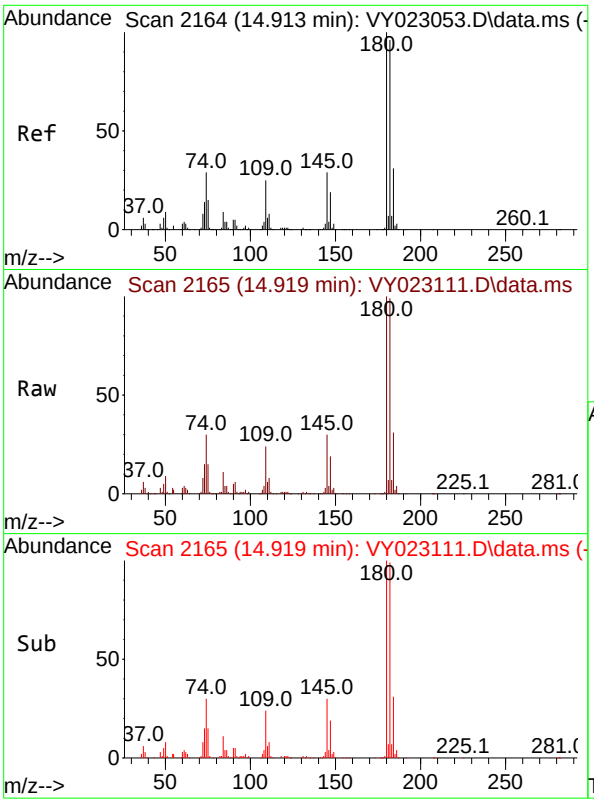


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 27552

Ion	Ratio	Lower	Upper
75	100		
155	83.9	43.9	131.6
157	109.1	57.2	171.6

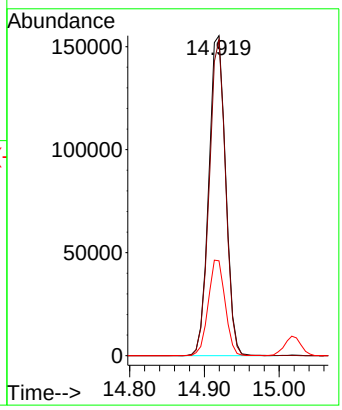




#93
1,2,4-Trichlorobenzene
Concen: 46.042 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:180 Resp: 24337

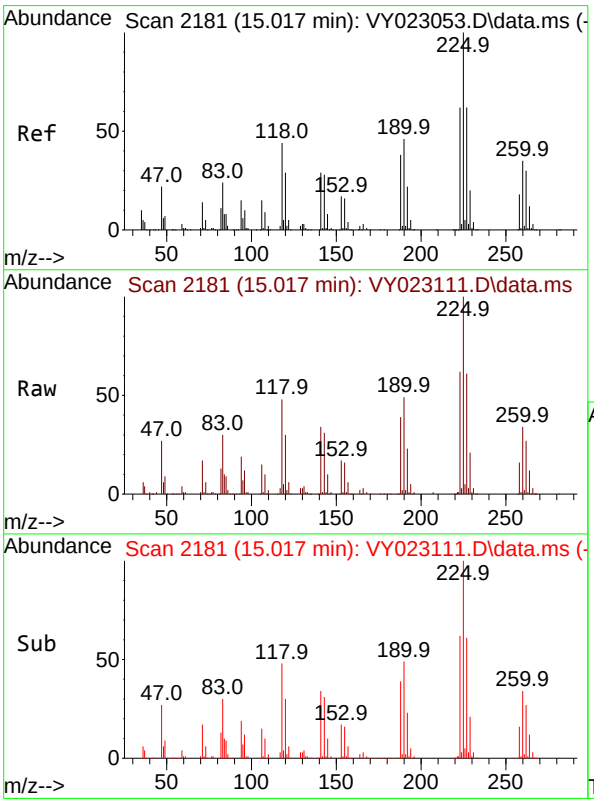
Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.8	140.4
145	29.9	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

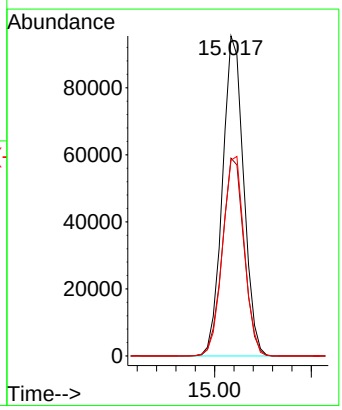
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

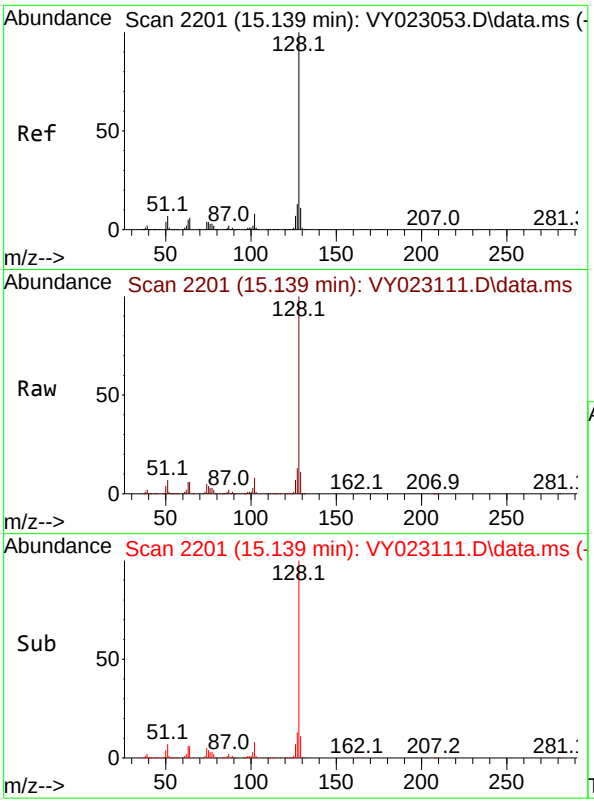


#94
Hexachlorobutadiene
Concen: 46.578 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:225 Resp: 144679

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.3	93.8
227	64.2	31.5	94.5

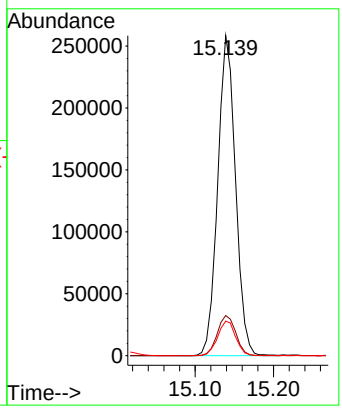




#95
Naphthalene
Concen: 45.340 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:128 Resp: 40867

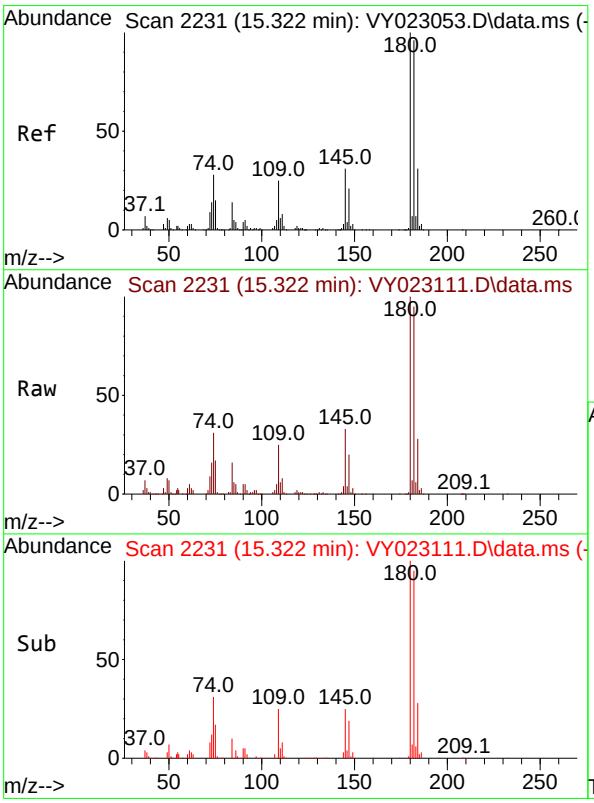
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.0	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

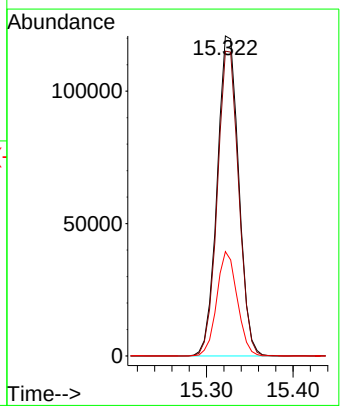
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 45.784 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:180 Resp: 208542

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.7
145	31.0	15.9	47.7



Sample Results: **VY023111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	82	0.00
2	T	Dichlorodifluoromethane	0.408	0.332	18.6	78	0.00
3	P	Chloromethane	0.661	0.651	1.5	88	0.00
4	C	Vinyl Chloride	0.817	0.876	-7.2#	94	0.00
5	T	Bromomethane	0.610	0.659	-8.0	100	0.00
6	T	Chloroethane	0.543	0.599	-10.3	96	0.00
7	T	Trichlorofluoromethane	0.994	0.982	1.2	86	0.00
8	T	Diethyl Ether	0.263	0.246	6.5	81	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.484	1.2	86	0.00
10	T	Methyl Iodide	0.529	0.566	-7.0	85	0.00
11	T	Tert butyl alcohol	0.033	0.027	18.2	69	0.00
12	CM	1,1-Dichloroethene	0.482	0.471	2.3#	84	0.01
13	T	Acrolein	0.048	0.030	37.5#	55	0.00
14	T	Allyl chloride	0.709	0.689	2.8	83	0.00
15	T	Acrylonitrile	0.107	0.102	4.7	79	0.01
16	T	Acetone	0.103	0.116	-12.6	92	0.00
17	T	Carbon Disulfide	1.571	1.520	3.2	84	0.00
18	T	Methyl Acetate	0.307	0.297	3.3	76	0.00
19	T	Methyl tert-butyl Ether	1.249	1.209	3.2	80	0.00
20	T	Methylene Chloride	0.620	0.543	12.4	88	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.549	-1.5	86	0.00
22	T	Diisopropyl ether	1.541	1.570	-1.9	85	0.00
23	T	Vinyl Acetate	0.852	0.838	1.6	82	0.00
24	P	1,1-Dichloroethane	0.942	0.968	-2.8	87	0.00
25	T	2-Butanone	0.140	0.143	-2.1	83	0.00
26	T	2,2-Dichloropropane	0.813	0.854	-5.0	89	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.643	-2.7	87	0.00
28	T	Bromochloromethane	0.374	0.395	-5.6	89	0.00
29	T	Tetrahydrofuran	0.087	0.083	4.6	78	0.00
30	C	Chloroform	0.971	1.017	-4.7#	89	0.00
31	T	Cyclohexane	0.888	0.845	4.8	85	0.00
32	T	1,1,1-Trichloroethane	0.862	0.888	-3.0	87	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.480	-0.6	86	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35	S	Dibromofluoromethane	0.299	0.309	-3.3	86	0.00
36	T	1,1-Dichloropropene	0.445	0.456	-2.5	86	0.00
37	T	Ethyl Acetate	0.187	0.180	3.7	78	0.00
38	T	Carbon Tetrachloride	0.483	0.506	-4.8	88	0.00
39	T	Methylcyclohexane	0.586	0.583	0.5	84	0.00
40	TM	Benzene	1.370	1.455	-6.2	89	0.00
41	T	Methacrylonitrile	0.108	0.112	-3.7	83	0.00
42	TM	1,2-Dichloroethane	0.356	0.372	-4.5	87	0.00
43	T	Isopropyl Acetate	0.378	0.360	4.8	78	0.00
44	TM	Trichloroethene	0.354	0.366	-3.4	87	0.00
45	C	1,2-Dichloropropane	0.315	0.335	-6.3#	88	0.00
46	T	Dibromomethane	0.181	0.189	-4.4	86	0.00
47	T	Bromodichloromethane	0.466	0.496	-6.4	88	0.00
48	T	Methyl methacrylate	0.181	0.175	3.3	76	0.00

Sample Results: **VY023111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	77	0.00
50	S	Toluene-d8	1.169	1.206	-3.2	86	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.194	0.5	79	0.00
52	CM	Toluene	0.870	0.928	-6.7#	88	0.00
53	T	t-1,3-Dichloropropene	0.422	0.434	-2.8	84	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.523	-4.8	86	0.00
55	T	1,1,2-Trichloroethane	0.242	0.252	-4.1	86	0.00
56	T	Ethyl methacrylate	0.310	0.307	1.0	78	0.00
57	T	1,3-Dichloropropane	0.411	0.422	-2.7	85	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.153	-4.8	80	0.00
59	T	2-Hexanone	0.133	0.135	-1.5	81	0.00
60	T	Dibromochloromethane	0.320	0.332	-3.8	85	0.00
61	T	1,2-Dibromoethane	0.228	0.230	-0.9	83	0.00
62	S	4-Bromofluorobenzene	0.376	0.376	0.0	83	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
64	T	Tetrachloroethene	0.446	0.469	-5.2	87	0.00
65	PM	Chlorobenzene	1.079	1.142	-5.8	87	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.394	-7.7	88	0.00
67	C	Ethyl Benzene	1.856	2.009	-8.2#	87	0.00
68	T	m/p-Xylenes	0.725	0.785	-8.3	88	0.00
69	T	o-Xylene	0.679	0.736	-8.4	87	0.00
70	T	Styrene	1.110	1.238	-11.5	89	0.00
71	P	Bromoform	0.214	0.212	0.9	80	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73	T	Isopropylbenzene	3.529	3.734	-5.8	87	0.00
74	T	N-amyl acetate	0.748	0.737	1.5	78	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.595	1.3	83	0.00
76	T	1,2,3-Trichloropropane	0.483	0.494	-2.3	75	0.00
77	T	Bromobenzene	0.842	0.856	-1.7	84	0.00
78	T	n-propylbenzene	4.201	4.549	-8.3	88	0.00
79	T	2-Chlorotoluene	2.407	2.551	-6.0	87	0.00
80	T	1,3,5-Trimethylbenzene	2.852	3.075	-7.8	87	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.195	2.0	80	0.00
82	T	4-Chlorotoluene	2.497	2.628	-5.2	87	0.00
83	T	tert-Butylbenzene	2.576	2.688	-4.3	84	0.00
84	T	1,2,4-Trimethylbenzene	2.839	3.082	-8.6	88	0.00
85	T	sec-Butylbenzene	3.784	4.022	-6.3	87	0.00
86	T	p-Isopropyltoluene	3.141	3.413	-8.7	88	0.00
87	T	1,3-Dichlorobenzene	1.660	1.748	-5.3	88	0.00
88	T	1,4-Dichlorobenzene	1.647	1.696	-3.0	86	0.00
89	T	n-Butylbenzene	2.885	3.112	-7.9	87	0.00
90	T	Hexachloroethane	0.643	0.682	-6.1	88	0.00
91	T	1,2-Dichlorobenzene	1.456	1.499	-3.0	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.090	4.3	77	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.793	7.9	76	0.00
94	T	Hexachlorobutadiene	0.506	0.471	6.9	78	0.00
95	T	Naphthalene	1.468	1.331	9.3	73	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.679	8.5	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	82	0.00
2	T	Dichlorodifluoromethane	50.000	40.637	18.7	78	0.00
3	P	Chloromethane	50.000	49.235	1.5	88	0.00
4	C	Vinyl Chloride	50.000	53.584	-7.2#	94	0.00
5	T	Bromomethane	50.000	53.970	-7.9	100	0.00
6	T	Chloroethane	50.000	55.172	-10.3	96	0.00
7	T	Trichlorofluoromethane	50.000	49.413	1.2	86	0.00
8	T	Diethyl Ether	50.000	46.730	6.5	81	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.394	1.2	86	0.00
10	T	Methyl Iodide	50.000	53.482	-7.0	85	0.00
11	T	Tert butyl alcohol	250.000	204.058	18.4	69	0.00
12	CM	1,1-Dichloroethene	50.000	48.899	2.2#	84	0.01
13	T	Acrolein	250.000	158.141	36.7#	55	0.00
14	T	Allyl chloride	50.000	48.583	2.8	83	0.00
15	T	Acrylonitrile	250.000	238.524	4.6	79	0.01
16	T	Acetone	250.000	280.645	-12.3	92	0.00
17	T	Carbon Disulfide	50.000	48.375	3.3	84	0.00
18	T	Methyl Acetate	50.000	48.336	3.3	76	0.00
19	T	Methyl tert-butyl Ether	50.000	48.411	3.2	80	0.00
20	T	Methylene Chloride	50.000	50.654	-1.3	88	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.676	-1.4	86	0.00
22	T	Diisopropyl ether	50.000	50.954	-1.9	85	0.00
23	T	Vinyl Acetate	250.000	245.935	1.6	82	0.00
24	P	1,1-Dichloroethane	50.000	51.394	-2.8	87	0.00
25	T	2-Butanone	250.000	253.961	-1.6	83	0.00
26	T	2,2-Dichloropropane	50.000	52.538	-5.1	89	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.356	-2.7	87	0.00
28	T	Bromochloromethane	50.000	52.898	-5.8	89	0.00
29	T	Tetrahydrofuran	250.000	237.044	5.2	78	0.00
30	C	Chloroform	50.000	52.336	-4.7#	89	0.00
31	T	Cyclohexane	50.000	47.613	4.8	85	0.00
32	T	1,1,1-Trichloroethane	50.000	51.507	-3.0	87	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.349	-0.7	86	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35	S	Dibromofluoromethane	50.000	51.722	-3.4	86	0.00
36	T	1,1-Dichloropropene	50.000	51.245	-2.5	86	0.00
37	T	Ethyl Acetate	50.000	48.201	3.6	78	0.00
38	T	Carbon Tetrachloride	50.000	52.395	-4.8	88	0.00
39	T	Methylcyclohexane	50.000	49.756	0.5	84	0.00
40	TM	Benzene	50.000	53.099	-6.2	89	0.00
41	T	Methacrylonitrile	50.000	51.807	-3.6	83	0.00
42	TM	1,2-Dichloroethane	50.000	52.122	-4.2	87	0.00
43	T	Isopropyl Acetate	50.000	47.653	4.7	78	0.00
44	TM	Trichloroethene	50.000	51.680	-3.4	87	0.00
45	C	1,2-Dichloropropane	50.000	53.160	-6.3#	88	0.00
46	T	Dibromomethane	50.000	52.280	-4.6	86	0.00
47	T	Bromodichloromethane	50.000	53.260	-6.5	88	0.00
48	T	Methyl methacrylate	50.000	48.387	3.2	76	0.00

Sample Results: **VY023111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	949.382	5.1	77	0.00
50	S	Toluene-d8	50.000	51.612	-3.2	86	0.00
51	T	4-Methyl-2-Pentanone	250.000	248.424	0.6	79	0.00
52	CM	Toluene	50.000	53.288	-6.6#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	51.512	-3.0	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.418	-4.8	86	0.00
55	T	1,1,2-Trichloroethane	50.000	51.936	-3.9	86	0.00
56	T	Ethyl methacrylate	50.000	49.477	1.0	78	0.00
57	T	1,3-Dichloropropane	50.000	51.352	-2.7	85	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	260.887	-4.4	80	0.00
59	T	2-Hexanone	250.000	255.032	-2.0	81	0.00
60	T	Dibromochloromethane	50.000	51.895	-3.8	85	0.00
61	T	1,2-Dibromoethane	50.000	50.454	-0.9	83	0.00
62	S	4-Bromofluorobenzene	50.000	50.079	-0.2	83	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	81	0.00
64	T	Tetrachloroethene	50.000	52.484	-5.0	87	0.00
65	PM	Chlorobenzene	50.000	52.949	-5.9	87	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.813	-7.6	88	0.00
67	C	Ethyl Benzene	50.000	54.111	-8.2#	87	0.00
68	T	m/p-Xylenes	100.000	108.283	-8.3	88	0.00
69	T	o-Xylene	50.000	54.193	-8.4	87	0.00
70	T	Styrene	50.000	55.770	-11.5	89	0.00
71	P	Bromoform	50.000	49.544	0.9	80	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73	T	Isopropylbenzene	50.000	52.906	-5.8	87	0.00
74	T	N-amyl acetate	50.000	49.257	1.5	78	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.405	1.2	83	0.00
76	T	1,2,3-Trichloropropane	50.000	51.159	-2.3	75	0.00
77	T	Bromobenzene	50.000	50.833	-1.7	84	0.00
78	T	n-propylbenzene	50.000	54.137	-8.3	88	0.00
79	T	2-Chlorotoluene	50.000	52.993	-6.0	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.915	-7.8	87	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.961	2.1	80	0.00
82	T	4-Chlorotoluene	50.000	52.611	-5.2	87	0.00
83	T	tert-Butylbenzene	50.000	52.171	-4.3	84	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.277	-8.6	88	0.00
85	T	sec-Butylbenzene	50.000	53.143	-6.3	87	0.00
86	T	p-Isopropyltoluene	50.000	54.334	-8.7	88	0.00
87	T	1,3-Dichlorobenzene	50.000	52.641	-5.3	88	0.00
88	T	1,4-Dichlorobenzene	50.000	51.501	-3.0	86	0.00
89	T	n-Butylbenzene	50.000	53.939	-7.9	87	0.00
90	T	Hexachloroethane	50.000	53.061	-6.1	88	0.00
91	T	1,2-Dichlorobenzene	50.000	51.489	-3.0	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.839	4.3	77	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.042	7.9	76	0.00
94	T	Hexachlorobutadiene	50.000	46.578	6.8	78	0.00
95	T	Naphthalene	50.000	45.340	9.3	73	0.00

Sample Results: **VY023111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	45.784	8.4	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023135.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/15/2025 19:06
Lab File ID: VY023135.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.283		-30.64	50
Chloromethane	0.661	0.600	0.1	-9.23	50
Vinyl Chloride	0.817	0.803		-1.71	50
Bromomethane	0.610	0.629		3.12	50
Chloroethane	0.543	0.561		3.32	50
Trichlorofluoromethane	0.994	0.921		-7.34	50
1,1,2-Trichlorotrifluoroethane	0.490	0.419		-14.49	50
1,1-Dichloroethene	0.482	0.436		-9.54	50
Acetone	0.103	0.070		-32.04	50
Carbon Disulfide	1.571	1.390		-11.52	50
Methyl tert-butyl Ether	1.249	1.158		-7.29	50
Methyl Acetate	0.307	0.360		17.26	50
Methylene Chloride	0.620	0.514		-17.1	50
trans-1,2-Dichloroethene	0.541	0.520		-3.88	50
1,1-Dichloroethane	0.942	0.897	0.1	-4.78	50
Cyclohexane	0.888	0.737		-17	50
2-Butanone	0.140	0.112		-20	50
Carbon Tetrachloride	0.483	0.436		-9.73	50
cis-1,2-Dichloroethene	0.626	0.606		-3.19	50
Bromochloromethane	0.374	0.371		-0.8	50
Chloroform	0.971	0.951		-2.06	50
1,1,1-Trichloroethane	0.862	0.822		-4.64	50
Methylcyclohexane	0.586	0.498		-15.02	50
Benzene	1.370	1.275		-6.93	50
1,2-Dichloroethane	0.356	0.326		-8.43	50
Trichloroethene	0.354	0.337		-4.8	50
1,2-Dichloropropane	0.315	0.294		-6.67	50
Bromodichloromethane	0.466	0.433		-7.08	50
4-Methyl-2-Pentanone	0.195	0.171		-12.31	50
Toluene	0.870	0.823		-5.4	50
t-1,3-Dichloropropene	0.422	0.382		-9.48	50
cis-1,3-Dichloropropene	0.499	0.452		-9.42	50
1,1,2-Trichloroethane	0.242	0.220		-9.09	50
2-Hexanone	0.133	0.112		-15.79	50
Dibromochloromethane	0.320	0.294		-8.13	50
1,2-Dibromoethane	0.228	0.206		-9.65	50
Tetrachloroethene	0.446	0.465		4.26	50
Chlorobenzene	1.079	1.000	0.3	-7.32	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023135.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/15/2025 19:06
Lab File ID: VY023135.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	1.755		-5.44	50
m/p-Xylenes	0.725	0.686		-5.38	50
o-Xylene	0.679	0.643		-5.3	50
Styrene	1.110	1.082		-2.52	50
Bromoform	0.214	0.184	0.1	-14.02	50
Isopropylbenzene	3.529	3.263		-7.54	50
1,1,2,2-Tetrachloroethane	0.603	0.459	0.3	-23.88	50
1,3-Dichlorobenzene	1.660	1.509		-9.1	50
1,4-Dichlorobenzene	1.647	1.477		-10.32	50
1,2-Dichlorobenzene	1.456	1.320		-9.34	50
1,2-Dibromo-3-Chloropropane	0.094	0.079		-15.96	50
1,2,4-Trichlorobenzene	0.861	0.722		-16.14	50
1,2,3-Trichlorobenzene	0.742	0.627		-15.5	50
1,2-Dichloroethane-d4	0.477	0.487		2.1	50
Dibromofluoromethane	0.299	0.290		-3.01	50
Toluene-d8	1.169	1.163		-0.51	50
4-Bromofluorobenzene	0.376	0.370		-1.6	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	430308	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	718703	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	640791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	327055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	209678	51.127	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.260%			
35) Dibromofluoromethane	7.628	113	208578	48.501	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.000%			
50) Toluene-d8	10.103	98	835617	49.738	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.480%			
62) 4-Bromofluorobenzene	12.402	95	266231	49.275	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	121628	34.628	ug/l	99
3) Chloromethane	2.068	50	257975	45.346	ug/l	97
4) Vinyl Chloride	2.202	62	345536	49.135	ug/l	99
5) Bromomethane	2.592	94	270785	51.559	ug/l	100
6) Chloroethane	2.733	64	241433	51.640	ug/l	99
7) Trichlorofluoromethane	3.050	101	396172	46.330	ug/l	97
8) Diethyl Ether	3.452	74	102249	45.197	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.806	101	180286	42.736	ug/l	99
10) Methyl Iodide	4.001	142	223871	49.178	ug/l	98
11) Tert butyl alcohol	4.854	59	58084	206.701	ug/l	98
12) 1,1-Dichloroethene	3.781	96	187457	45.207	ug/l	96
13) Acrolein	3.653	56	58421	141.959	ug/l	98
14) Allyl chloride	4.379	41	274900	45.054	ug/l	98
15) Acrylonitrile	5.055	53	207991	226.140	ug/l	99
16) Acetone	3.866	43	150363	169.235	ug/l	99
17) Carbon Disulfide	4.098	76	597944	44.225	ug/l	99
18) Methyl Acetate	4.385	43	154996	58.622	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	498217	46.367	ug/l	100
20) Methylene Chloride	4.610	84	221392	47.835	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	223573	47.978	ug/l	95
22) Diisopropyl ether	6.019	45	632885	47.734	ug/l	98
23) Vinyl Acetate	5.958	43	1530852	208.809	ug/l	100
24) 1,1-Dichloroethane	5.909	63	385922	47.608	ug/l	99
25) 2-Butanone	6.890	43	242030	200.293	ug/l	97
26) 2,2-Dichloropropane	6.884	77	296658	42.412	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	260875	48.425	ug/l	98
28) Bromochloromethane	7.244	49	159803	49.690	ug/l	99
29) Tetrahydrofuran	7.262	42	164833	220.064	ug/l	99
30) Chloroform	7.421	83	409239	48.951	ug/l	96
31) Cyclohexane	7.701	56	317051	41.505	ug/l	99
32) 1,1,1-Trichloroethane	7.610	97	353516	47.657	ug/l	98
36) 1,1-Dichloropropene	7.829	75	286083	44.762	ug/l	99
37) Ethyl Acetate	6.982	43	113967	42.450	ug/l	99
38) Carbon Tetrachloride	7.817	117	313598	45.177	ug/l	97
39) Methylcyclohexane	9.109	83	357877	42.522	ug/l	96
40) Benzene	8.073	78	916243	46.514	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	64946	41.916	ug/l	96
42) 1,2-Dichloroethane	8.152	62	234175	45.709	ug/l	98
43) Isopropyl Acetate	8.195	43	235882	43.470	ug/l	100
44) Trichloroethene	8.860	130	241977	47.535	ug/l	97
45) 1,2-Dichloropropane	9.140	63	211470	46.657	ug/l	100
46) Dibromomethane	9.225	93	119663	45.999	ug/l	98
47) Bromodichloromethane	9.420	83	310859	46.439	ug/l	98
48) Methyl methacrylate	9.219	41	117614	45.295	ug/l	98
49) 1,4-Dioxane	9.225	88	27514	902.014	ug/l	92
51) 4-Methyl-2-Pentanone	9.993	43	615423	219.870	ug/l	100
52) Toluene	10.164	92	591580	47.285	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	274370	45.264	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	325037	45.347	ug/l	100
55) 1,1,2-Trichloroethane	10.567	97	157893	45.358	ug/l	97
56) Ethyl methacrylate	10.438	69	201789	45.302	ug/l	98
57) 1,3-Dichloropropane	10.713	76	269094	45.582	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	520841	247.890	ug/l	99
59) 2-Hexanone	10.756	43	403176	211.536	ug/l	100
60) Dibromochloromethane	10.908	129	211553	46.058	ug/l	100
61) 1,2-Dibromoethane	11.012	107	148382	45.352	ug/l	99
64) Tetrachloroethene	10.646	164	297964	52.075	ug/l	98
65) Chlorobenzene	11.438	112	640496	46.339	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.511	131	219895	46.876	ug/l	99
67) Ethyl Benzene	11.511	91	1124279	47.266	ug/l	99
68) m/p-Xylenes	11.621	106	878925	94.610	ug/l	99
69) o-Xylene	11.950	106	412282	47.384	ug/l	98
70) Styrene	11.963	104	693511	48.738	ug/l	100
71) Bromoform	12.127	173	117595	42.892	ug/l	98
73) Isopropylbenzene	12.249	105	1067182	46.232	ug/l	100
74) N-amyl acetate	12.066	43	201534	41.170	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	150140	38.093	ug/l	98
76) 1,2,3-Trichloropropane	12.548	75	131604m	41.694	ug/l	
77) Bromobenzene	12.523	156	242744	44.080	ug/l	98
78) n-propylbenzene	12.591	91	1280468	46.593	ug/l	100
79) 2-Chlorotoluene	12.676	91	728787	46.284	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	870525	46.663	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	51688	39.640	ug/l	98
82) 4-Chlorotoluene	12.773	91	754599	46.196	ug/l	100
83) tert-Butylbenzene	12.993	119	778117	46.181	ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	879311	47.349	ug/l	100
85) sec-Butylbenzene	13.170	105	1156161	46.712	ug/l	99
86) p-Isopropyltoluene	13.286	119	972014	47.312	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	493403	45.434	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	482971	44.832	ug/l	99
89) n-Butylbenzene	13.609	91	886753	46.994	ug/l	99
90) Hexachloroethane	13.877	117	193098	45.913	ug/l	97
91) 1,2-Dichlorobenzene	13.651	146	431633	45.320	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	25801	42.044	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	236226	41.942	ug/l	99
94) Hexachlorobutadiene	15.017	225	137786	41.632	ug/l	99
95) Naphthalene	15.139	128	413036	43.007	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	205156	42.272	ug/l	98

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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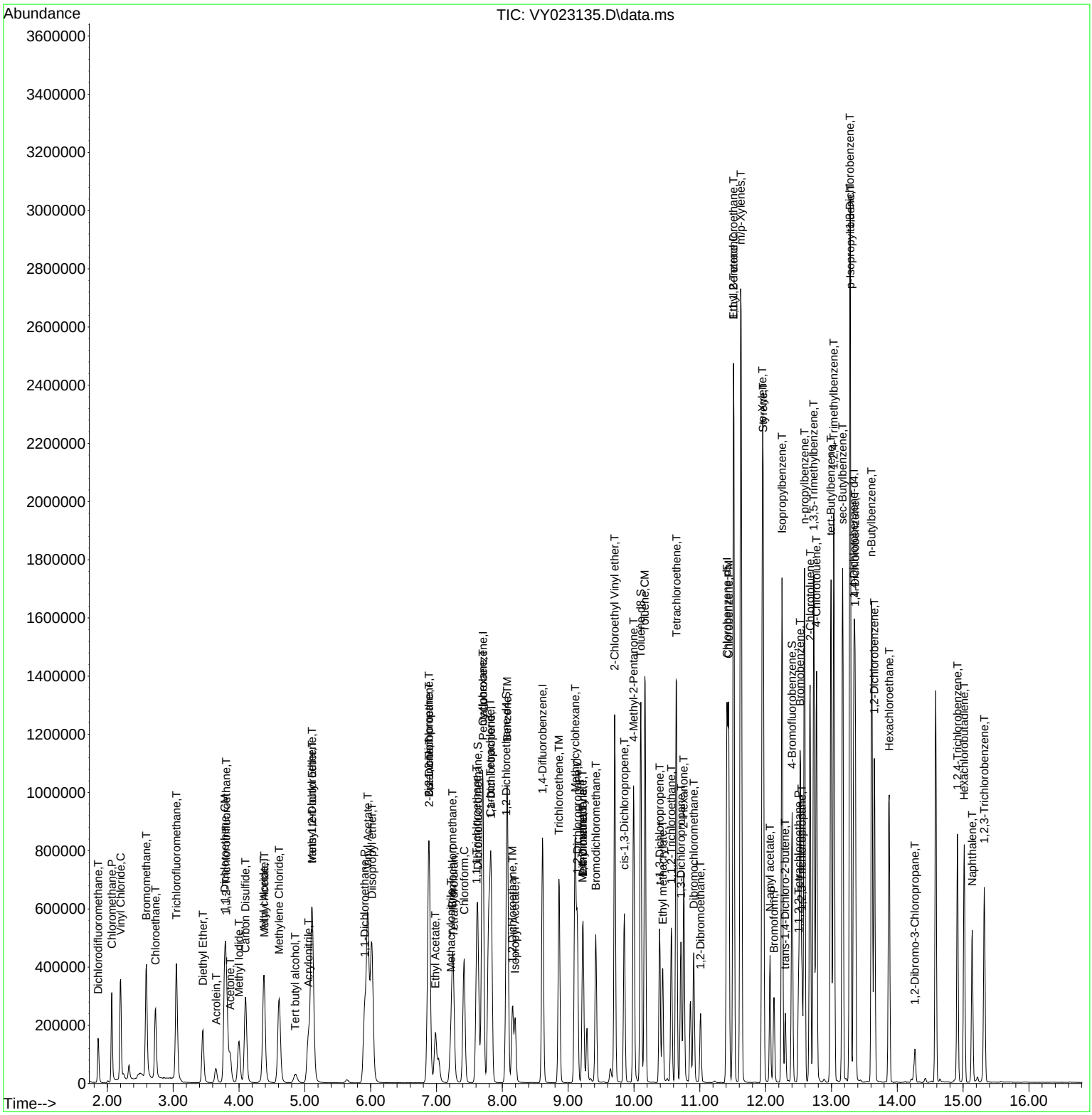
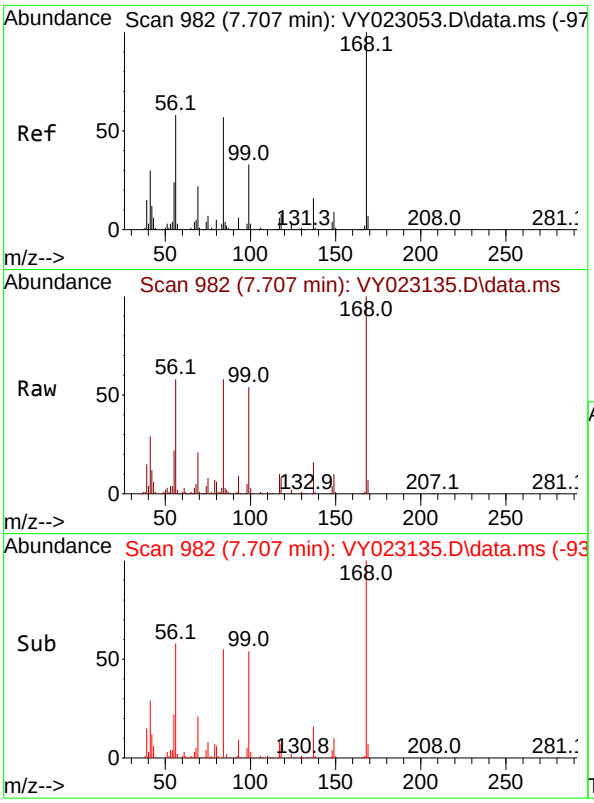
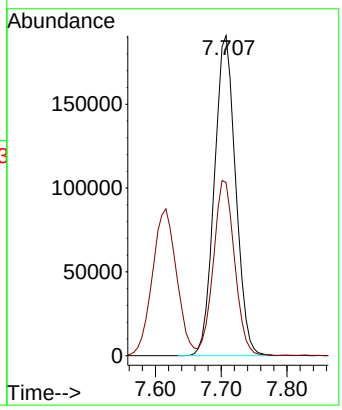




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:168 Resp: 43030

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
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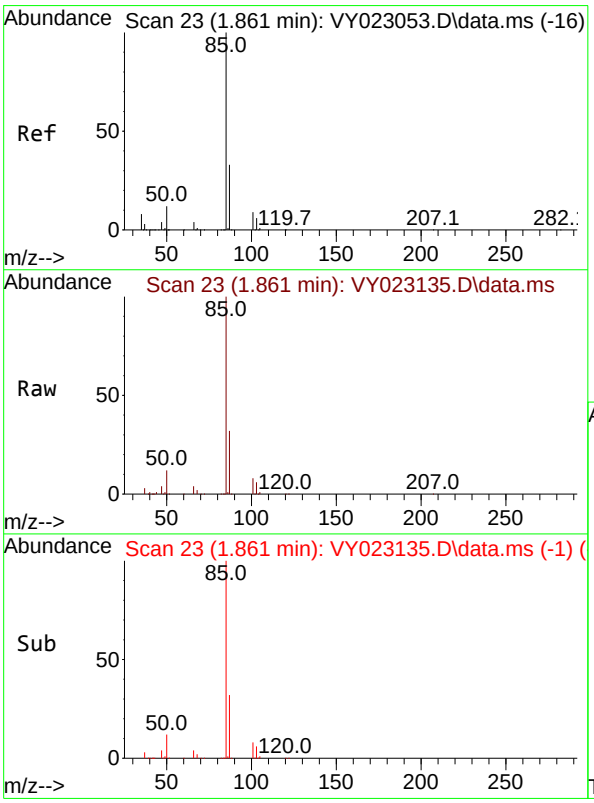
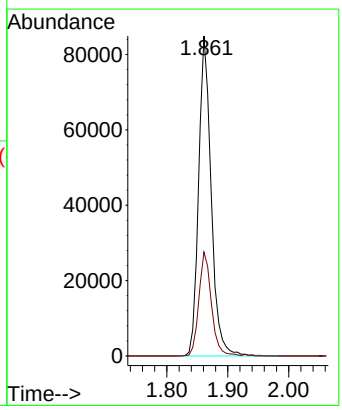
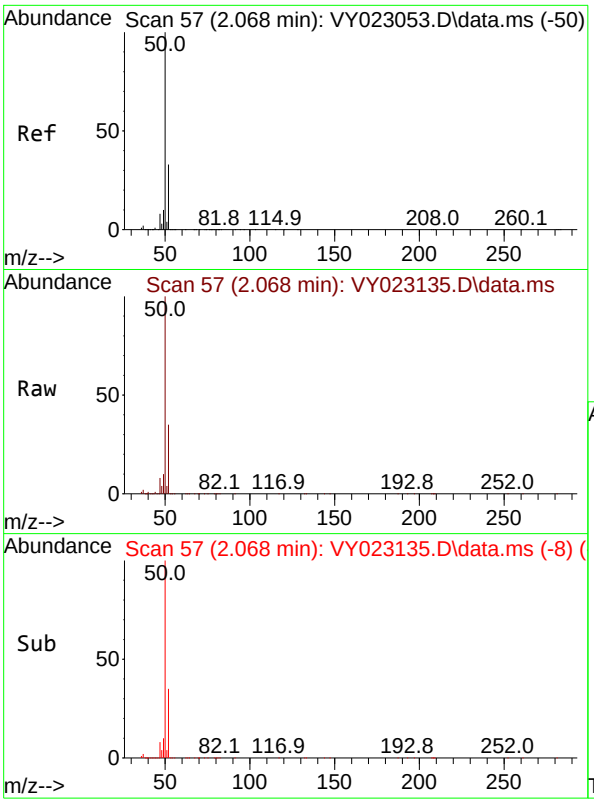


#2
Dichlorodifluoromethane
Concen: 34.628 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 85 Resp: 121628

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.6	49.8

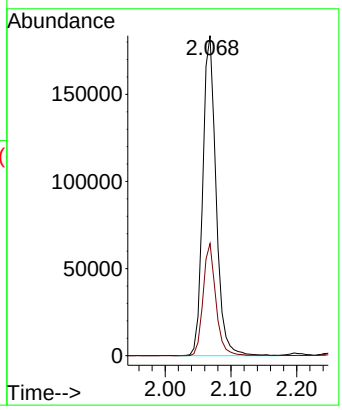




#3
Chloromethane
Concen: 45.346 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 50 Resp: 25797

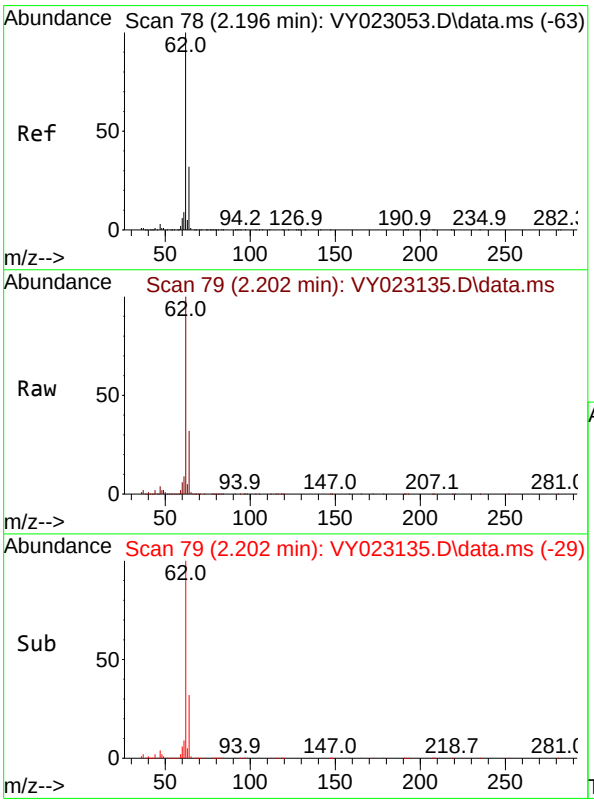
Ion	Ratio	Lower	Upper
50	100		
52	35.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

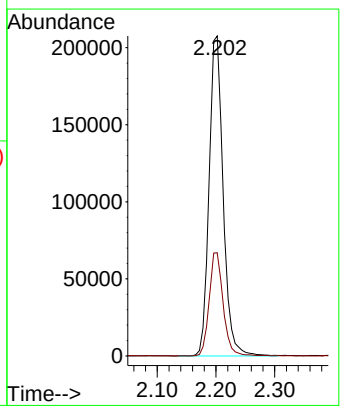
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

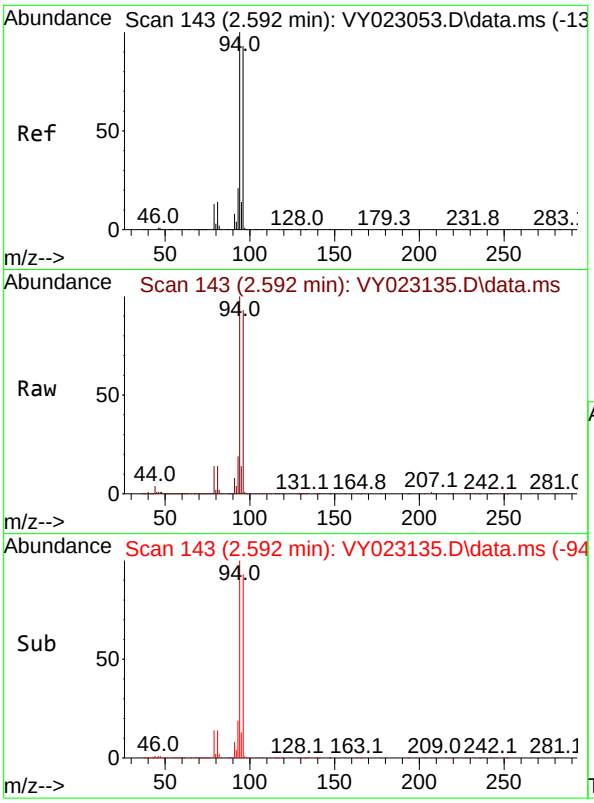


#4
Vinyl Chloride
Concen: 49.135 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 62 Resp: 345536

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0

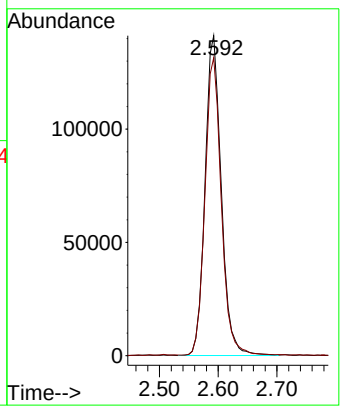




#5
Bromomethane
Concen: 51.559 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 94 Resp: 27078

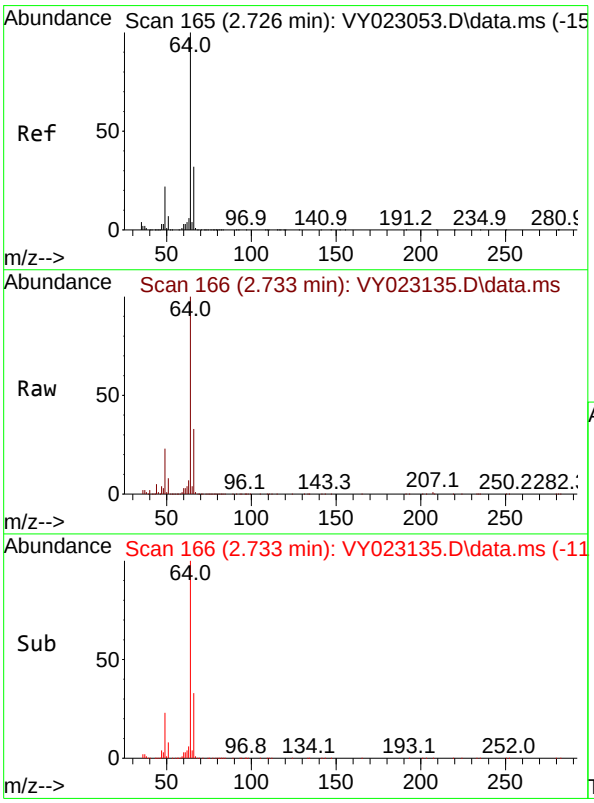
Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

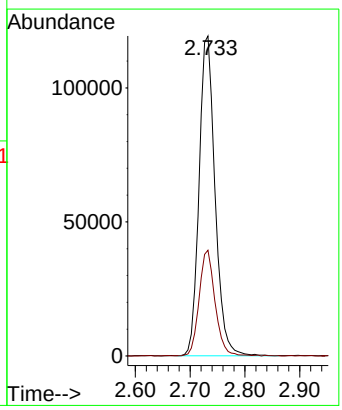
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

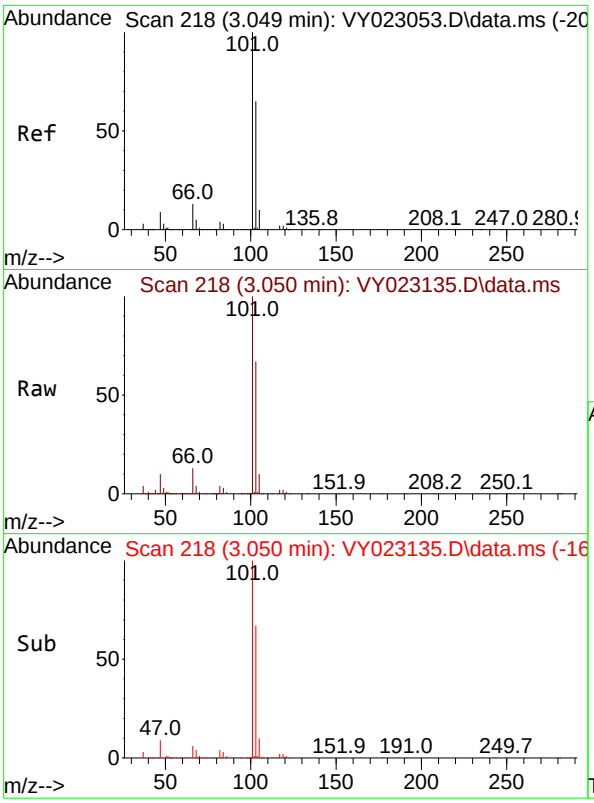


#6
Chloroethane
Concen: 51.640 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 64 Resp: 241433

Ion	Ratio	Lower	Upper
64	100		
66	33.0	25.8	38.6

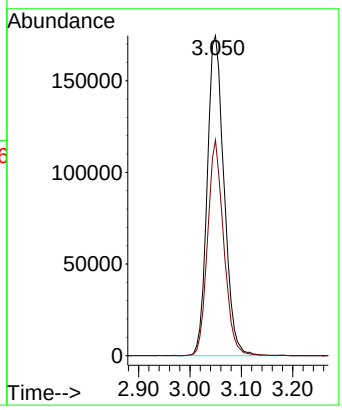




#7
Trichlorofluoromethane
Concen: 46.330 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:101 Resp: 39617

Ion	Ratio	Lower	Upper
101	100		
103	67.4	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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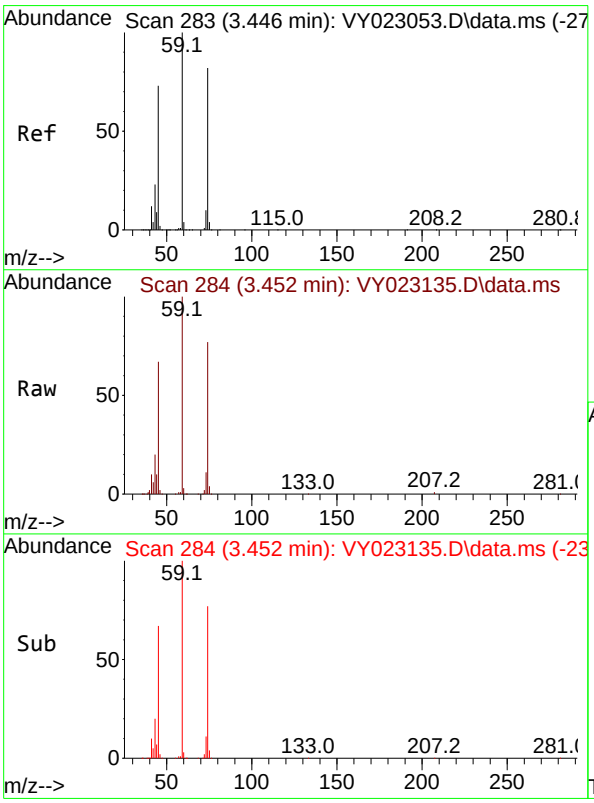
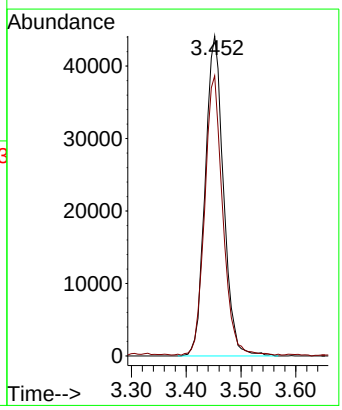
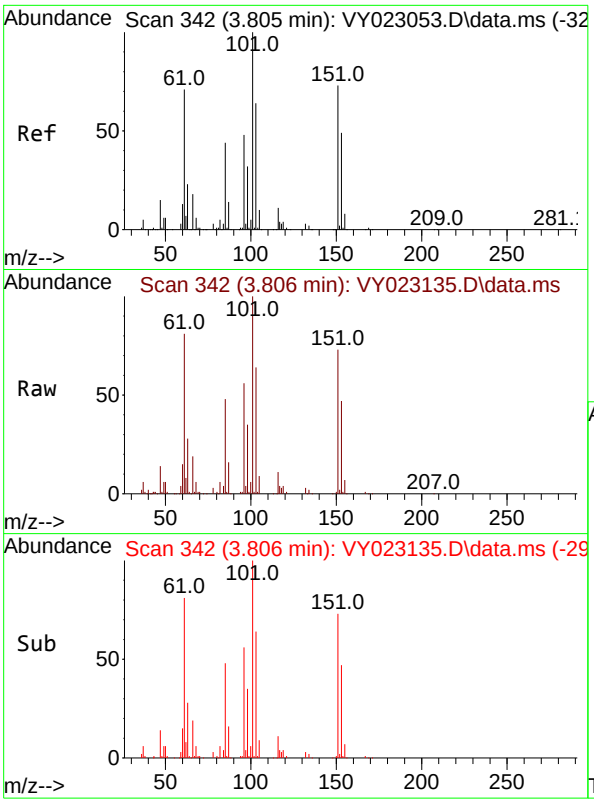


#8
Diethyl Ether
Concen: 45.197 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 74 Resp: 102249

Ion	Ratio	Lower	Upper
74	100		
45	85.6	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.736 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:101 Resp: 18028

Ion	Ratio	Lower	Upper
101	100		
85	46.0	36.3	54.5
151	76.5	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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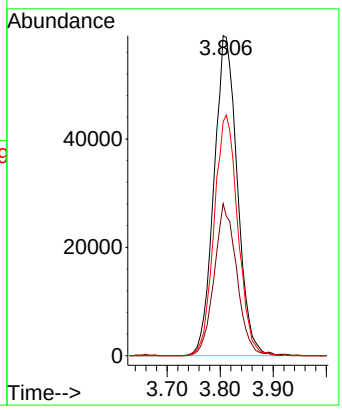
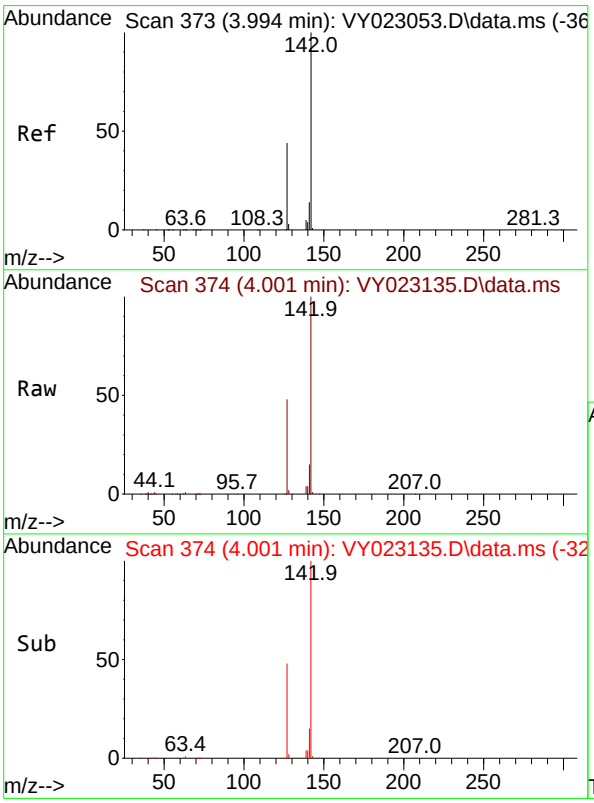
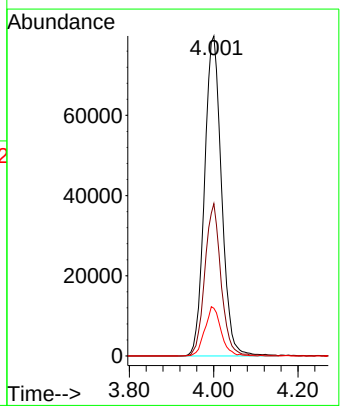


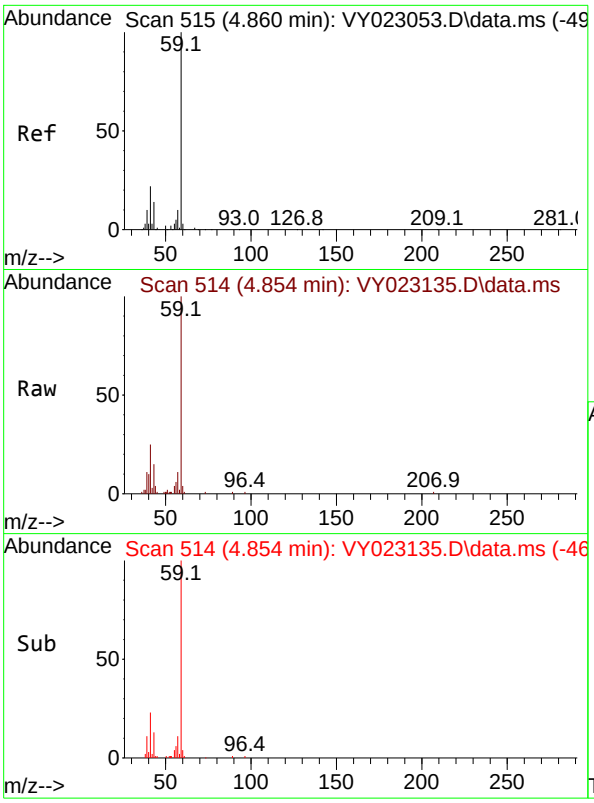


#10
Methyl Iodide
Concen: 49.178 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:142 Resp: 223871

Ion	Ratio	Lower	Upper
142	100		
127	45.3	34.9	52.3
141	14.7	11.3	16.9

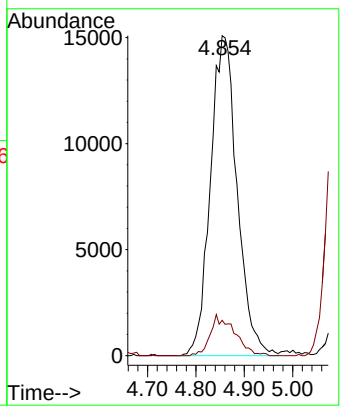




#11
Tert butyl alcohol
Concen: 206.701 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 59 Resp: 5808

Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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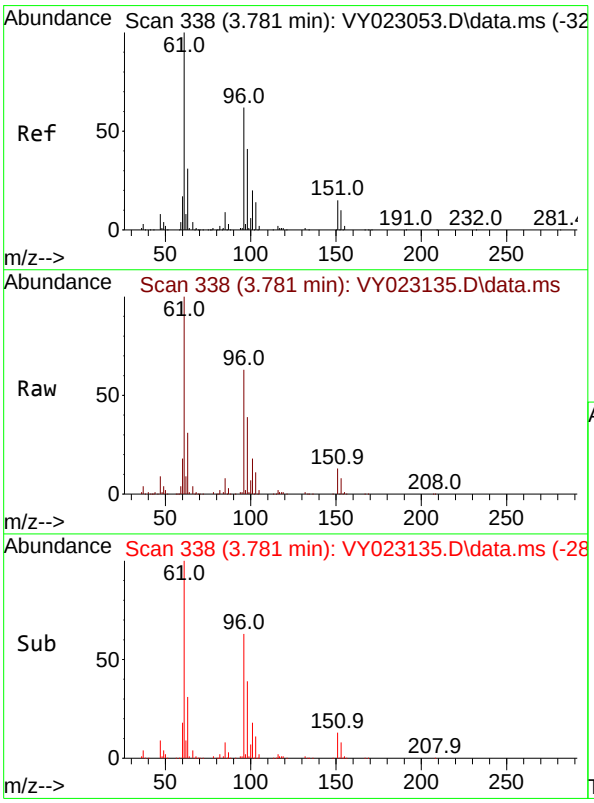
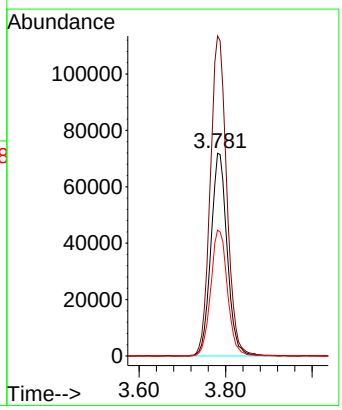
Supervised By :Mahesh Dadoda 08/19/2025

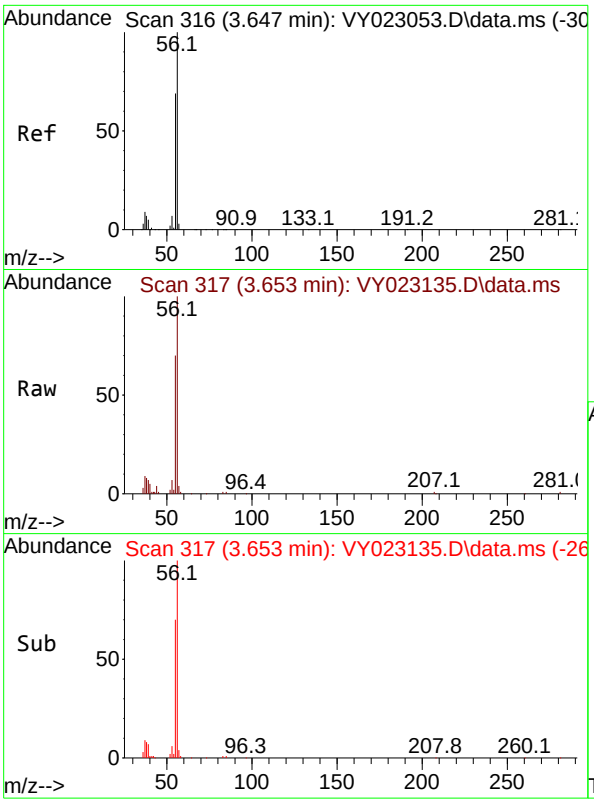


#12
1,1-Dichloroethene
Concen: 45.207 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 96 Resp: 187457

Ion	Ratio	Lower	Upper
96	100		
61	157.9	129.4	194.2
98	62.0	52.8	79.2

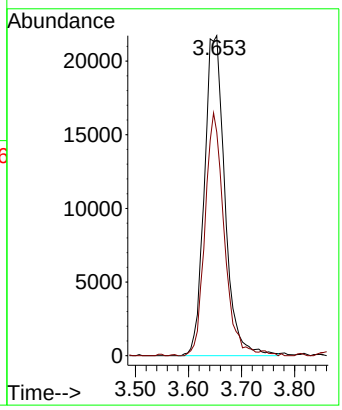




#13
Acrolein
Concen: 141.959 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 56 Resp: 5842

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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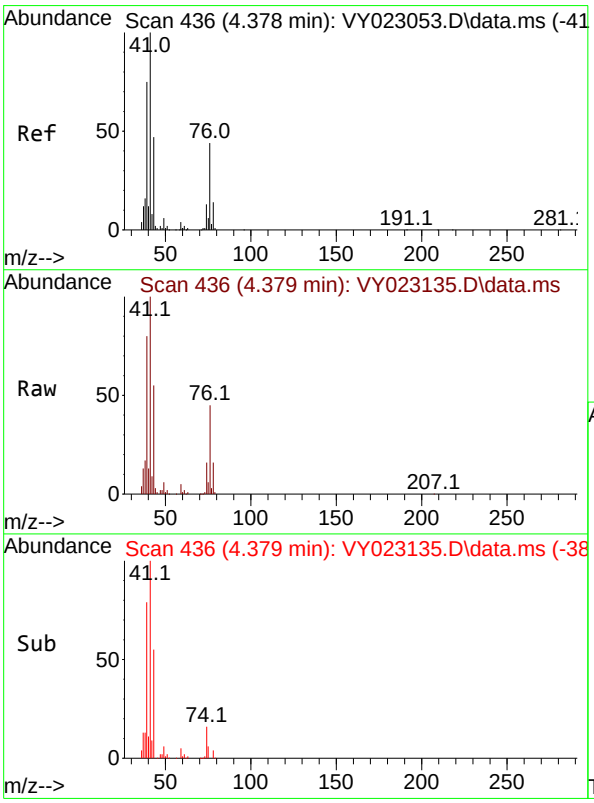
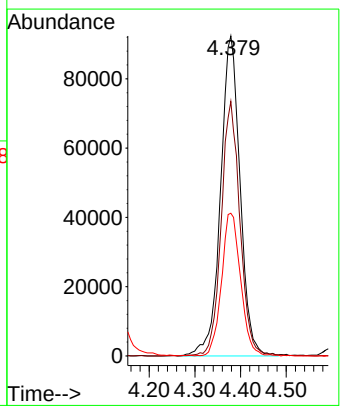
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

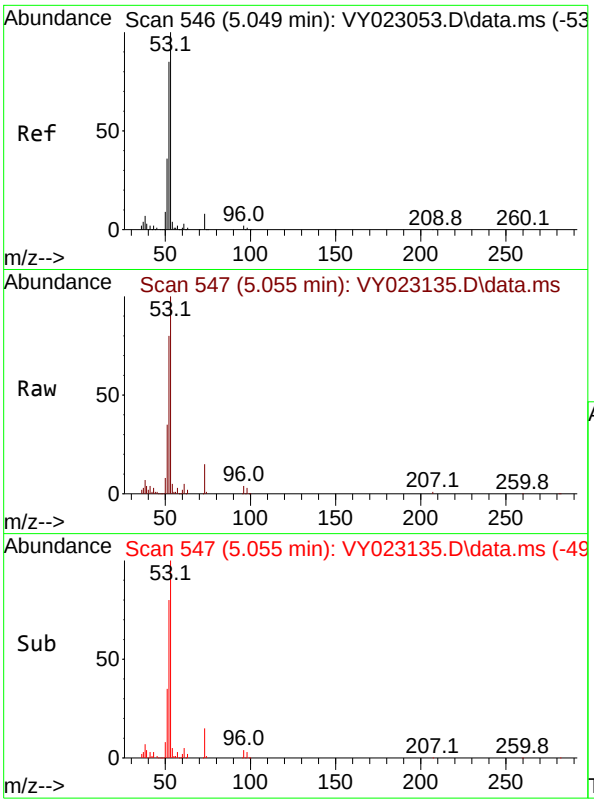


#14
Allyl chloride
Concen: 45.054 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 41 Resp: 274900

Ion	Ratio	Lower	Upper
41	100		
39	76.1	59.8	89.6
76	43.5	33.7	50.5

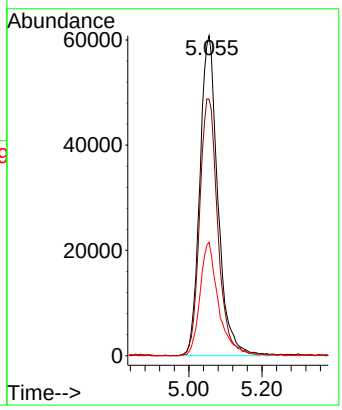




#15
Acrylonitrile
Concen: 226.140 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 53 Resp: 20799

Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.3	97.9
51	36.3	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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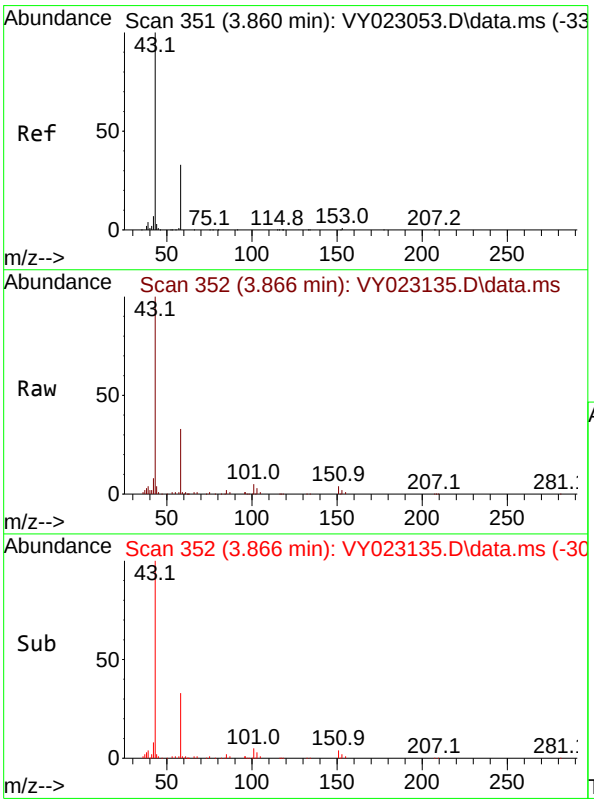
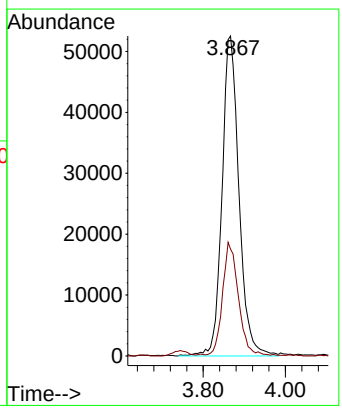
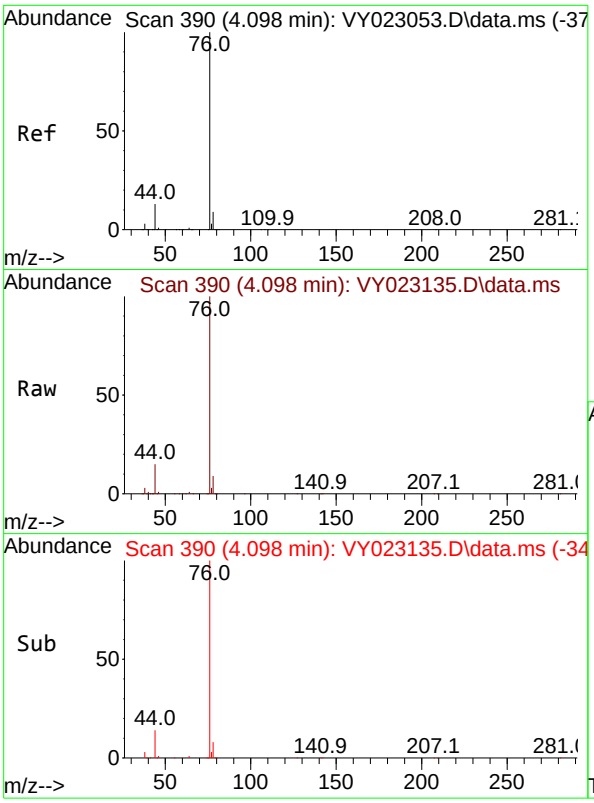


#16
Acetone
Concen: 169.235 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 150363

Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.1	40.7

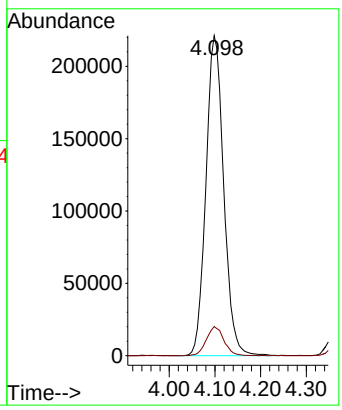




#17
Carbon Disulfide
Concen: 44.225 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 76 Resp: 59794

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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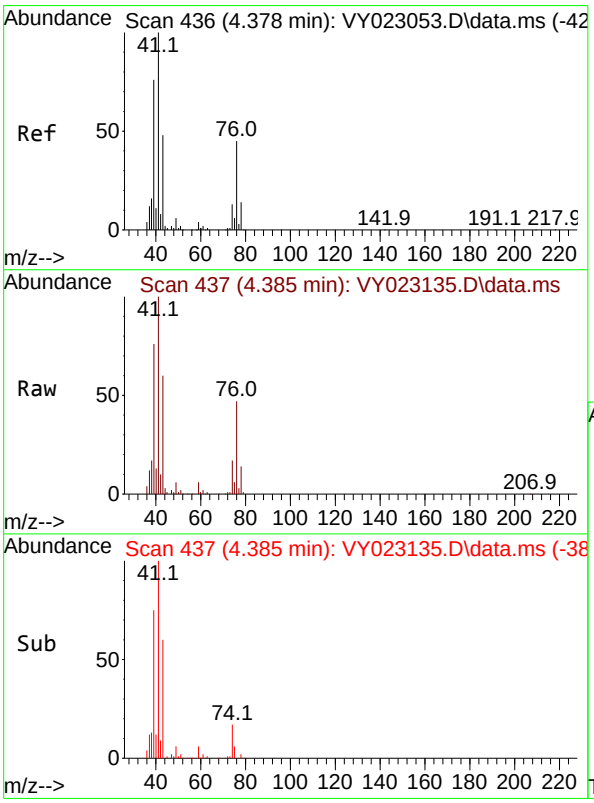
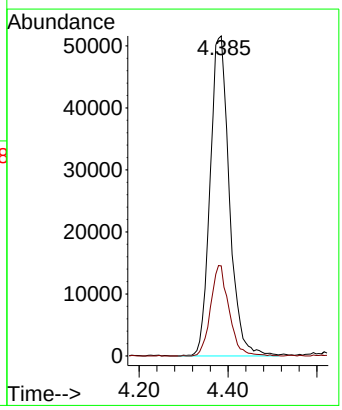
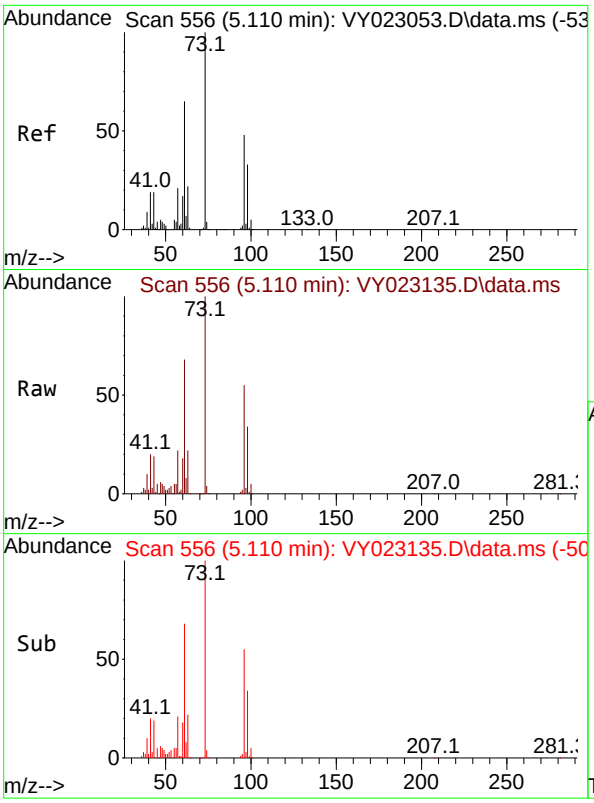


#18
Methyl Acetate
Concen: 58.622 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 154996

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.2	31.8

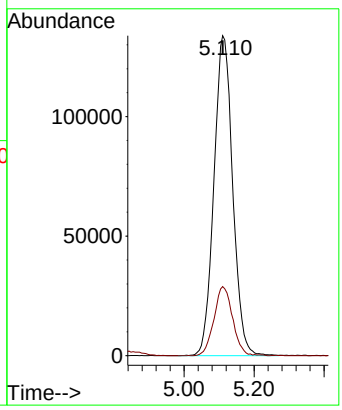




#19
Methyl tert-butyl Ether
Concen: 46.367 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 73 Resp: 49821

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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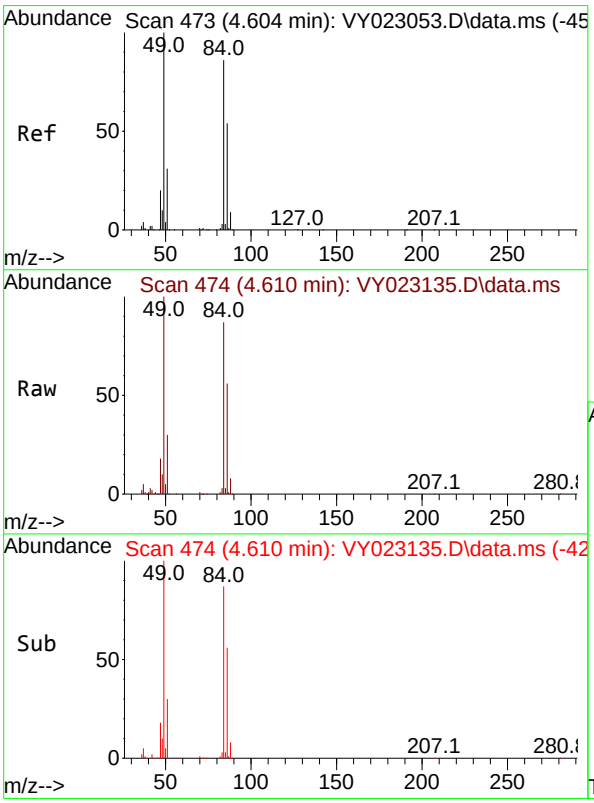
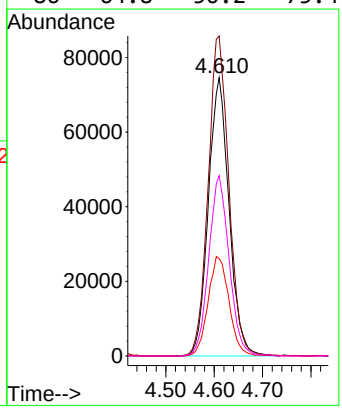
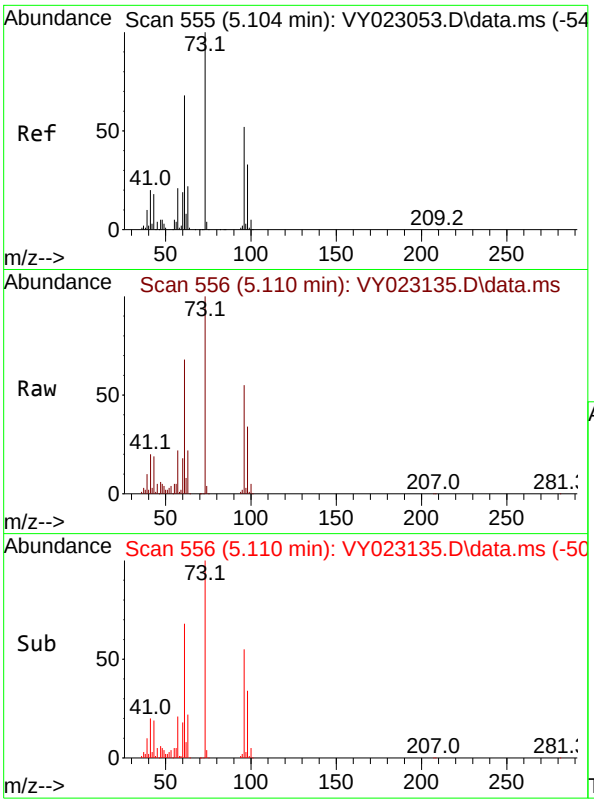


#20
Methylene Chloride
Concen: 47.835 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 84 Resp: 221392

Ion	Ratio	Lower	Upper
84	100		
49	115.0	93.0	139.6
51	34.9	29.0	43.4
86	64.8	50.2	75.4





#21
trans-1,2-Dichloroethene
Concen: 47.978 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 96 Resp: 22357

Ion	Ratio	Lower	Upper
96	100		
61	123.6	104.8	157.2
98	61.8	50.1	75.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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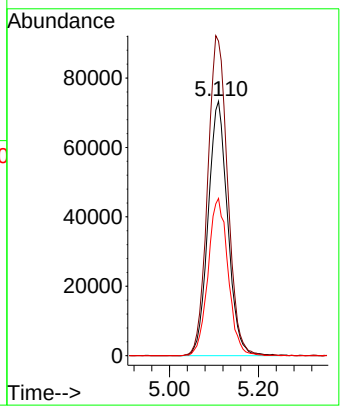
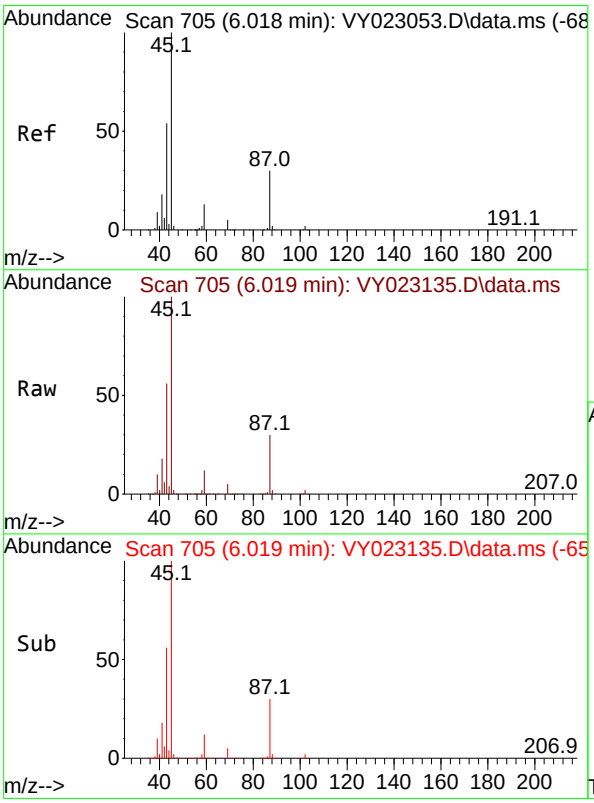
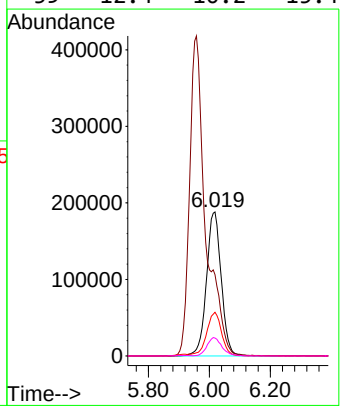


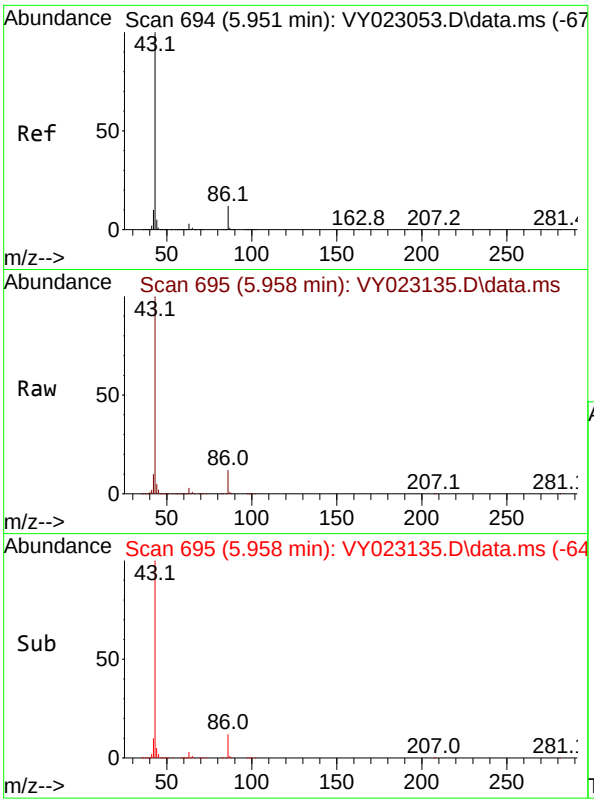


#22
Diisopropyl ether
Concen: 47.734 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 45 Resp: 632885

Ion	Ratio	Lower	Upper
45	100		
43	56.3	43.4	65.0
87	30.3	24.4	36.6
59	12.4	10.2	15.4

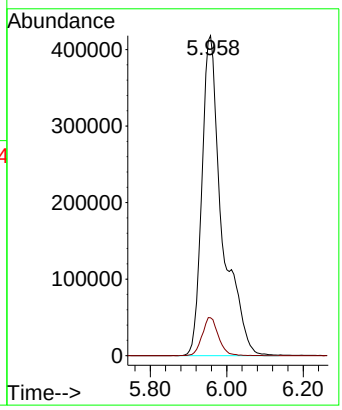




#23
Vinyl Acetate
Concen: 208.809 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 153085

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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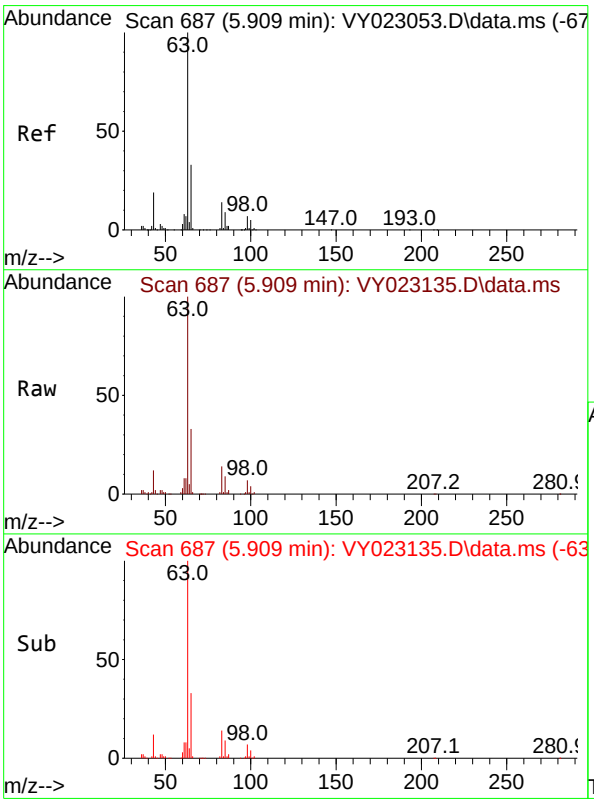
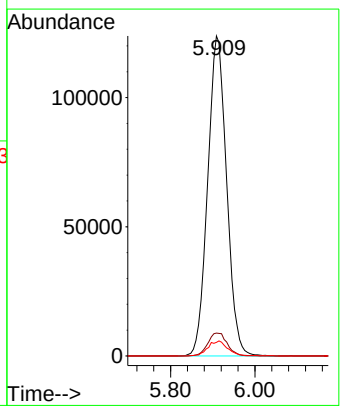
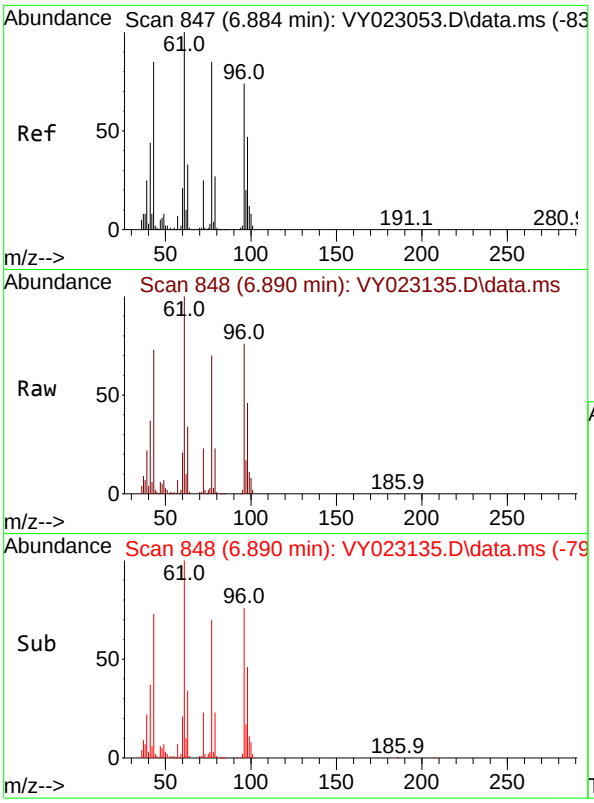


#24
1,1-Dichloroethane
Concen: 47.608 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 63 Resp: 385922

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.2	2.4	7.1





#25
2-Butanone
Concen: 200.293 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 24203

Ion	Ratio	Lower	Upper
43	100		
72	31.2	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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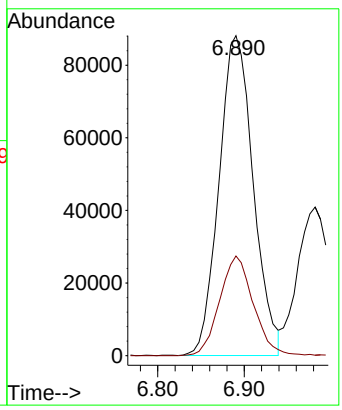
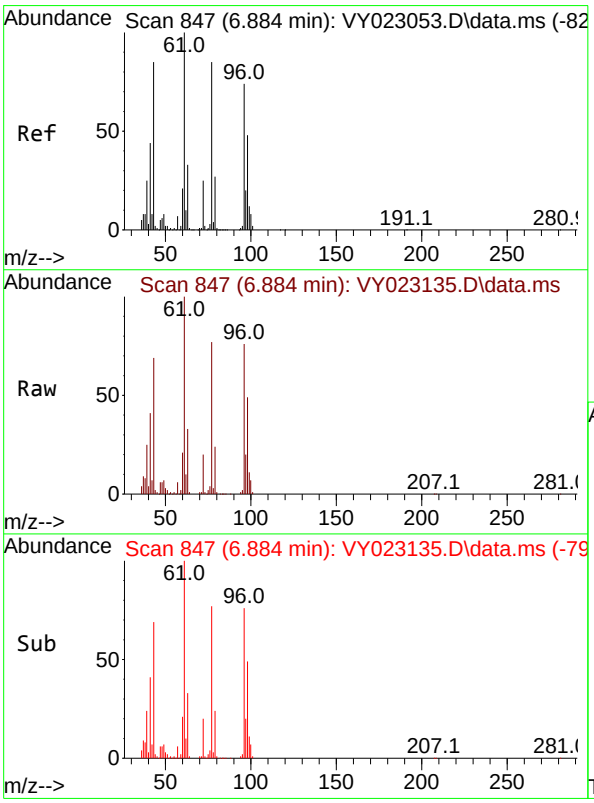
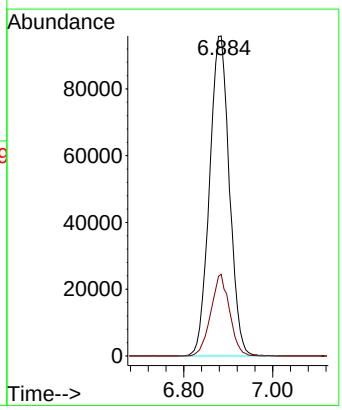


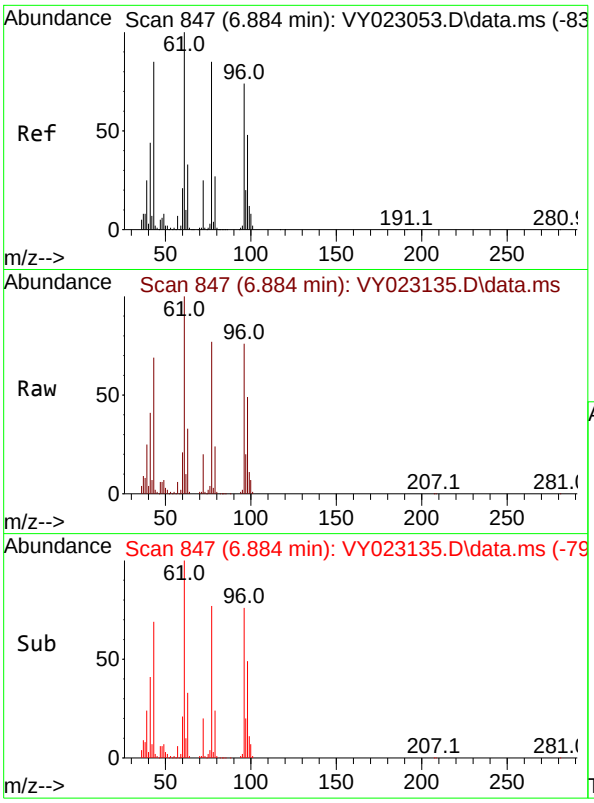


#26
2,2-Dichloropropane
Concen: 42.412 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 77 Resp: 296658

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 48.425 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 96 Resp: 26087

Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	278.6
98	64.0	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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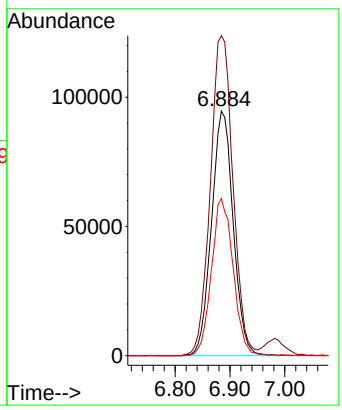
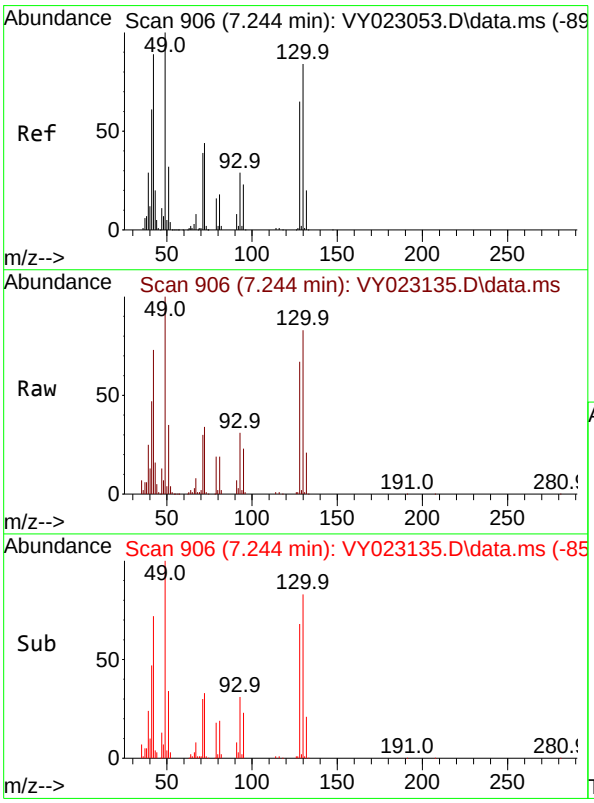
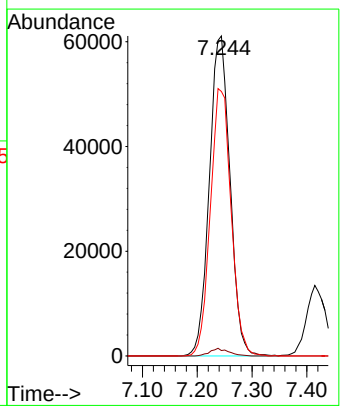


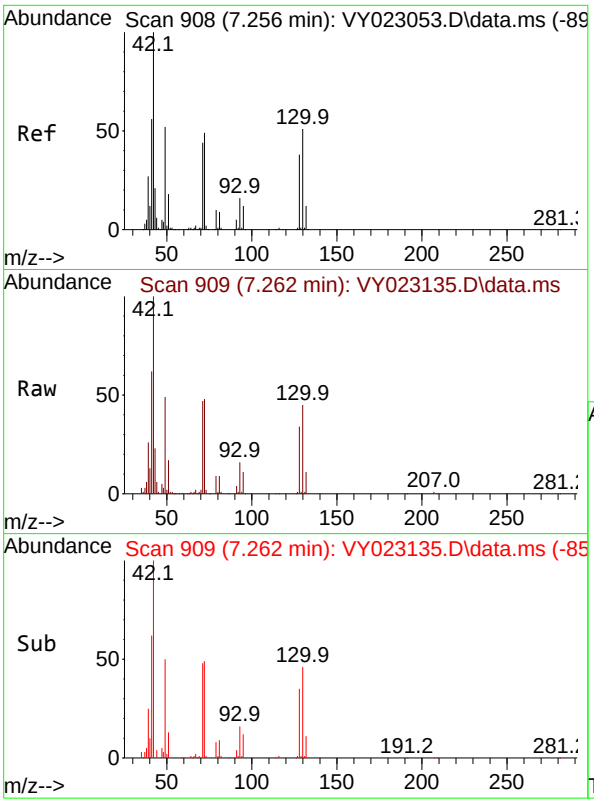


#28
Bromochloromethane
Concen: 49.690 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 49 Resp: 159803

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	83.9	66.4	99.6





#29
Tetrahydrofuran
Concen: 220.064 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 42 Resp: 16483

Ion	Ratio	Lower	Upper
42	100		
72	50.4	39.4	59.2
71	45.2	36.5	54.7

Instrument :
MSVOA_Y
ClientSampleId :
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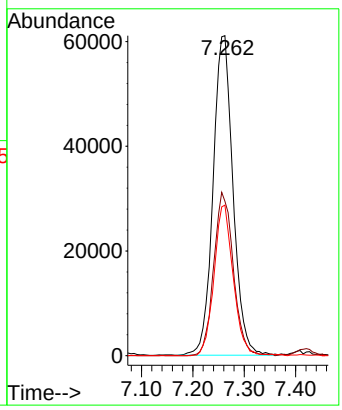
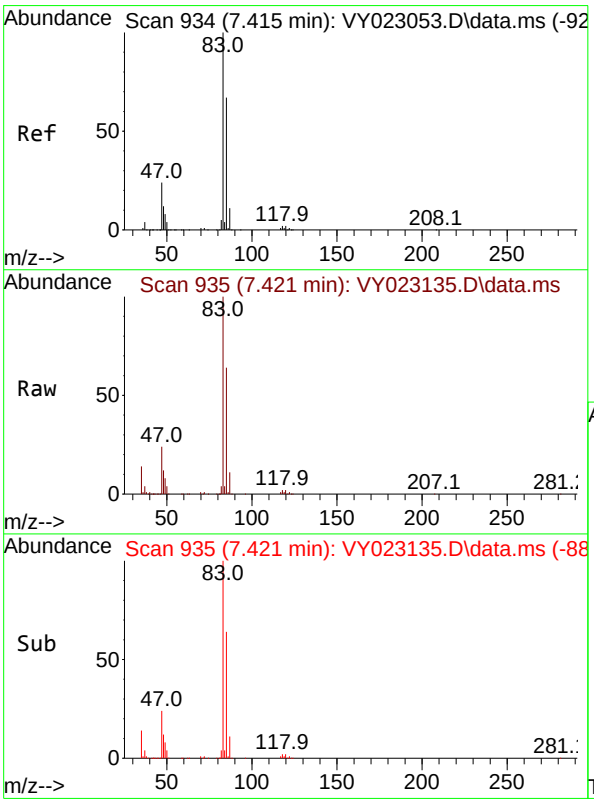
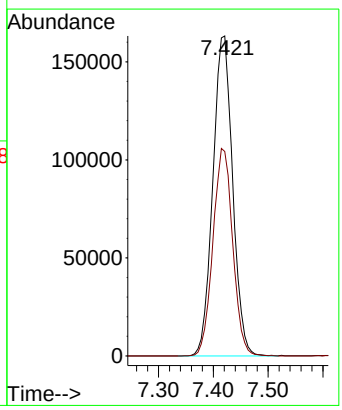


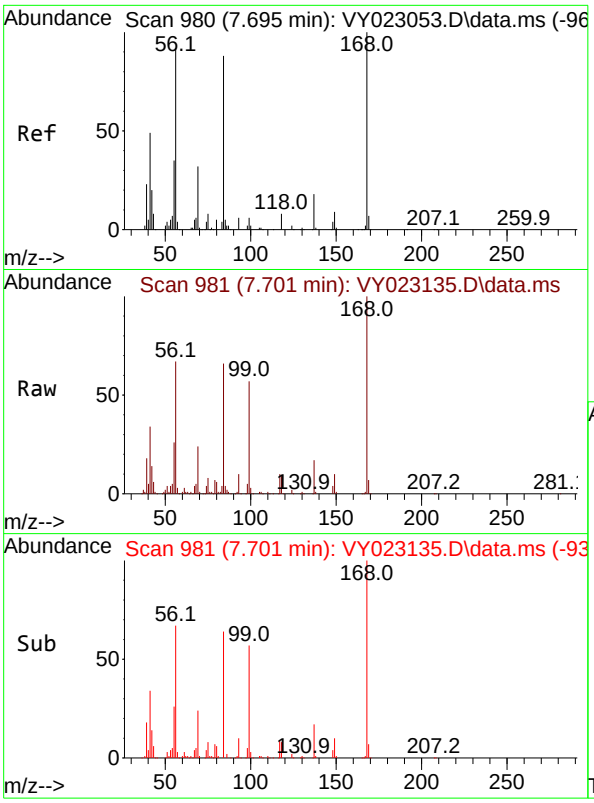


#30
Chloroform
Concen: 48.951 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 83 Resp: 409239

Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.8	80.8

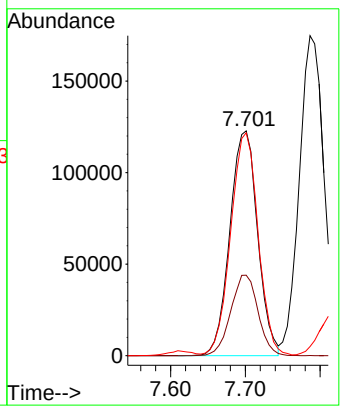




#31
Cyclohexane
Concen: 41.505 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 56 Resp: 31705

Ion	Ratio	Lower	Upper
56	100		
69	35.8	28.2	42.2
84	96.9	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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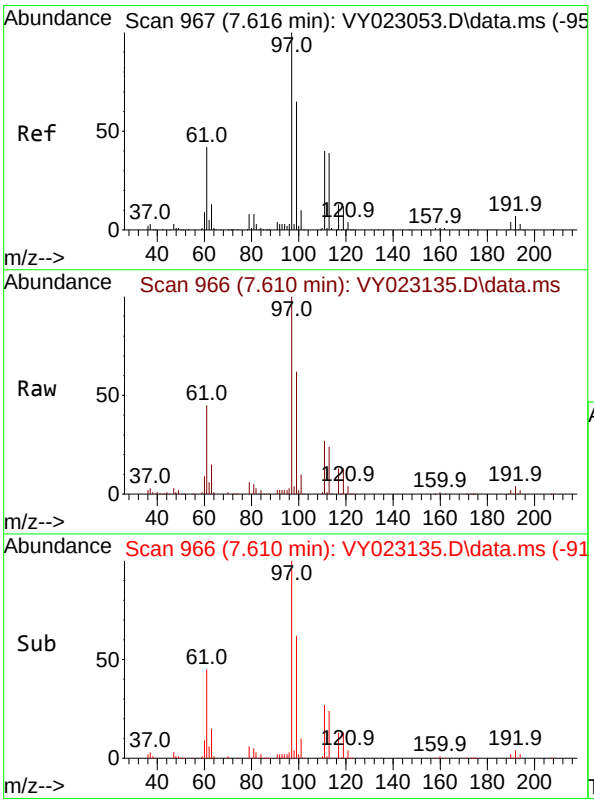
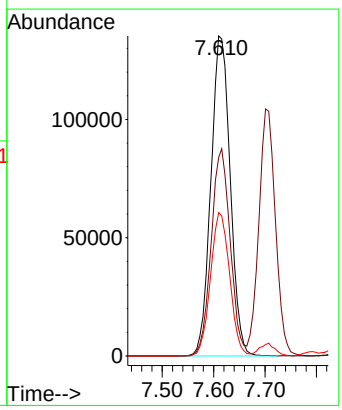
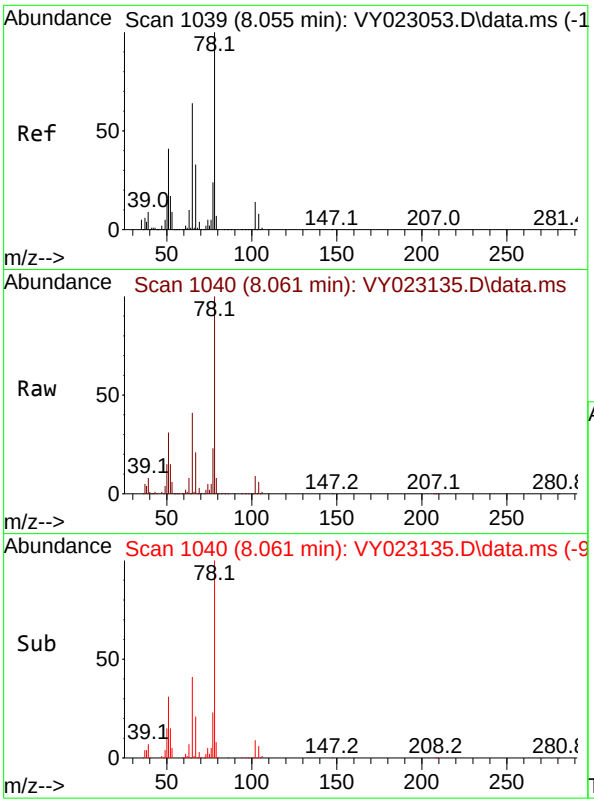


#32
1,1,1-Trichloroethane
Concen: 47.657 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 97 Resp: 353516

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	44.4	34.2	51.2

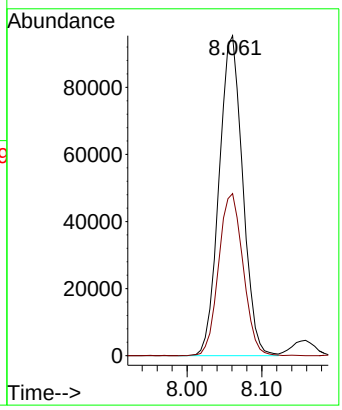




#33
1,2-Dichloroethane-d4
Concen: 51.127 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 65 Resp: 20967

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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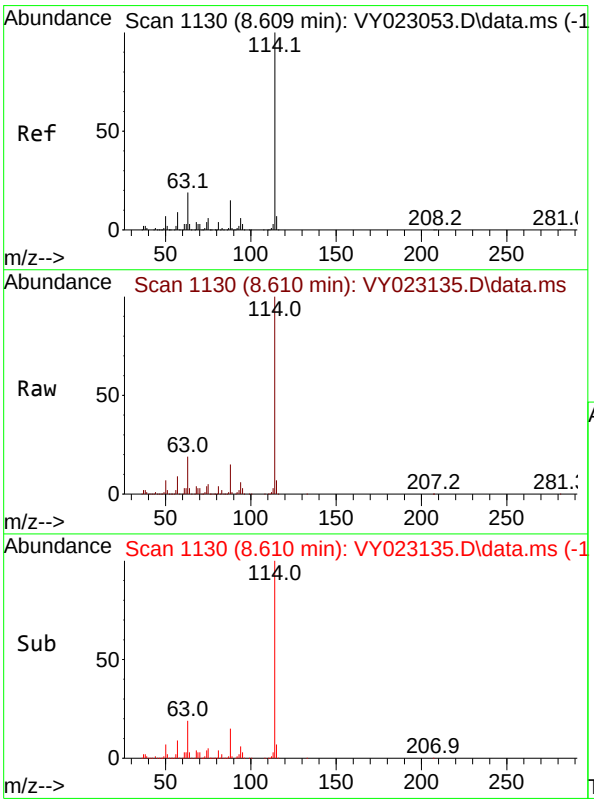
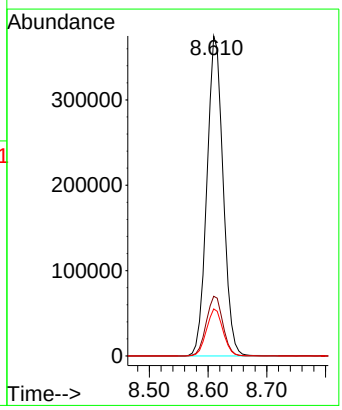
Supervised By :Mahesh Dadoda 08/19/2025

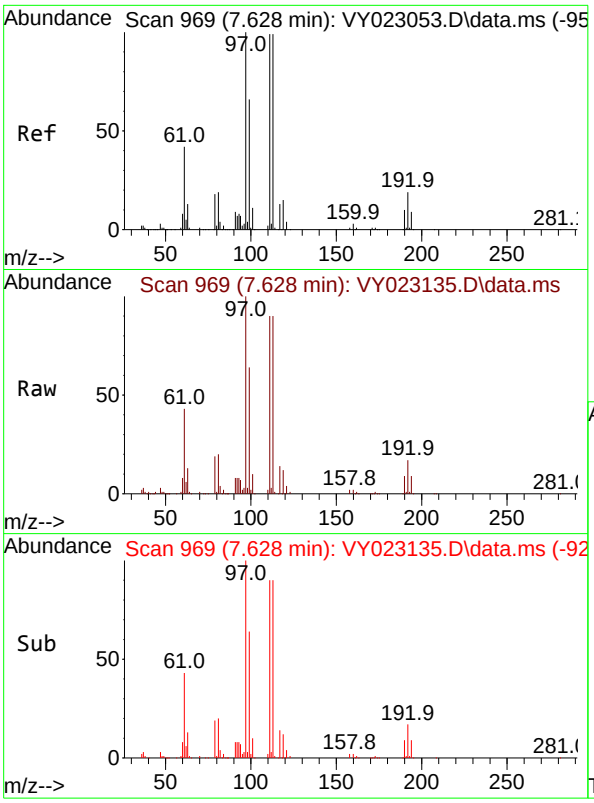


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:114 Resp: 718703

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	14.7	0.0	30.0

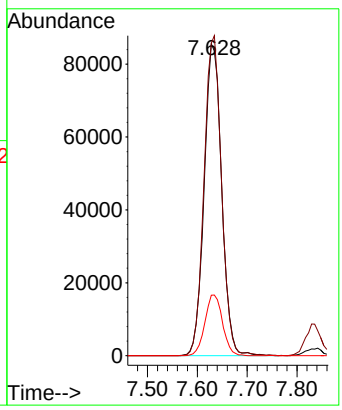




#35
Dibromofluoromethane
Concen: 48.501 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:113 Resp: 20857

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	19.6	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
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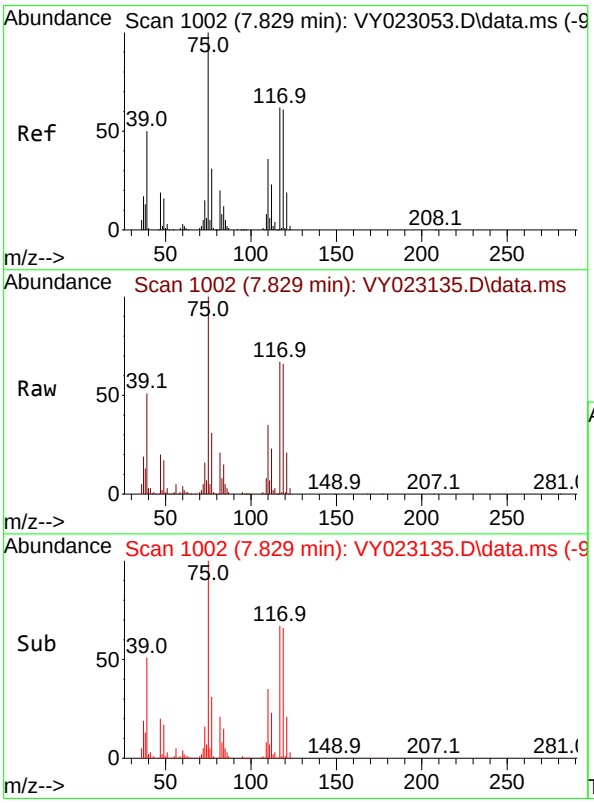
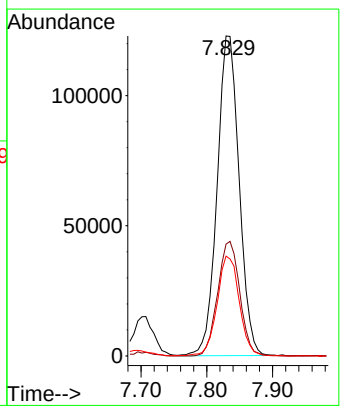
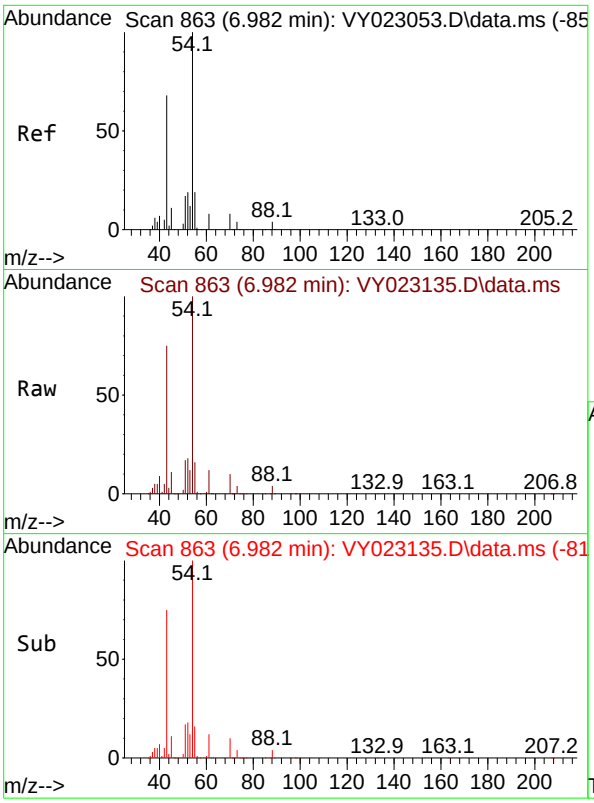


#36
1,1-Dichloropropene
Concen: 44.762 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 286083

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.4
77	31.5	24.6	37.0





#37
Ethyl Acetate
Concen: 42.450 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 11396

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.9	17.9
70	11.1	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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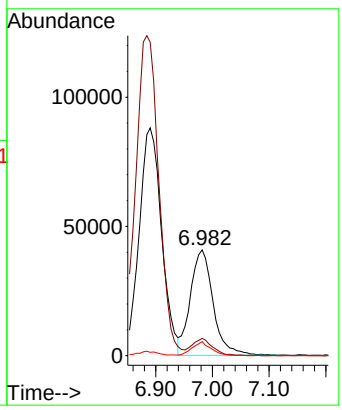
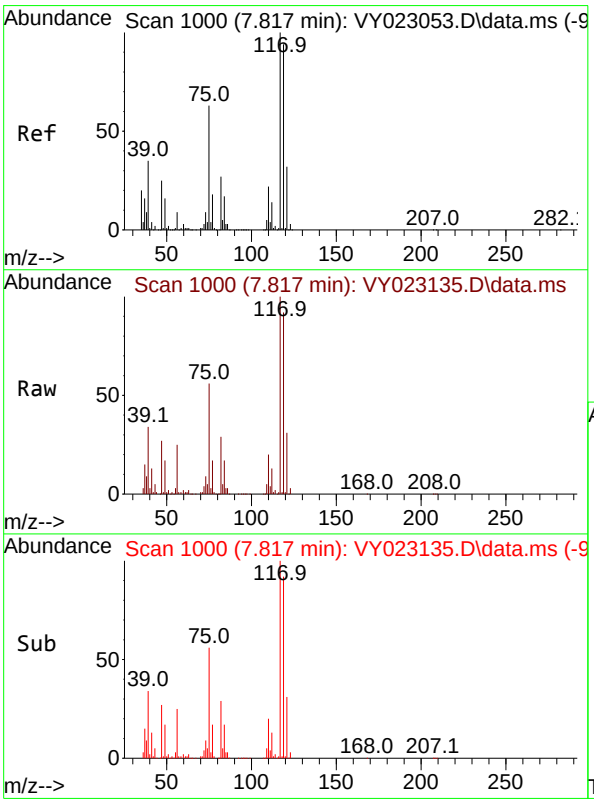
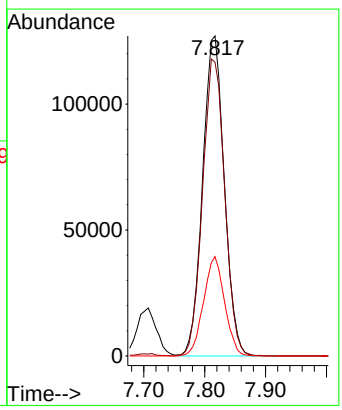


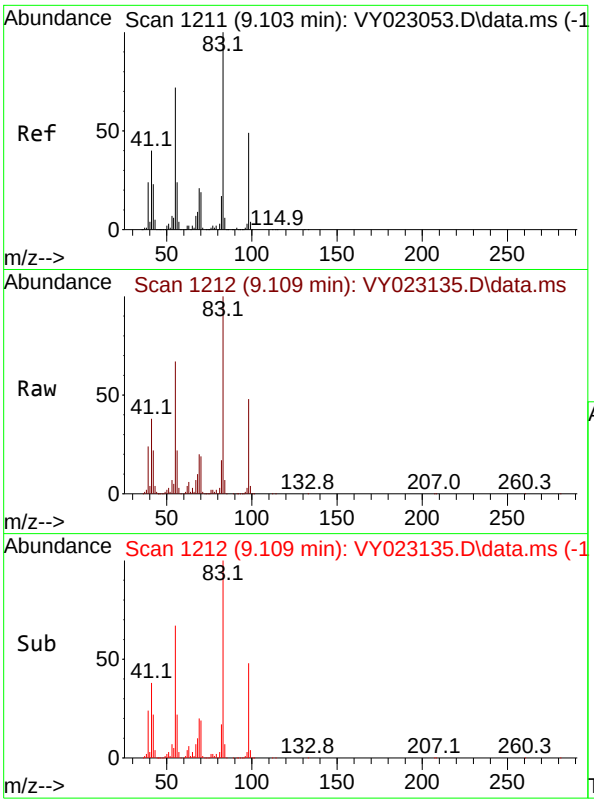


#38
Carbon Tetrachloride
Concen: 45.177 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:117 Resp: 313598

Ion	Ratio	Lower	Upper
117	100		
119	91.8	75.6	113.4
121	31.1	25.8	38.8





#39
Methylcyclohexane
Concen: 42.522 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 83 Resp: 35787

Ion	Ratio	Lower	Upper
83	100		
55	66.6	57.6	86.4
98	47.9	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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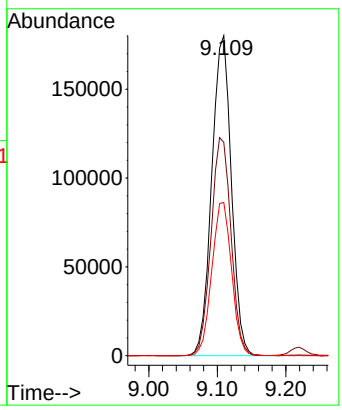
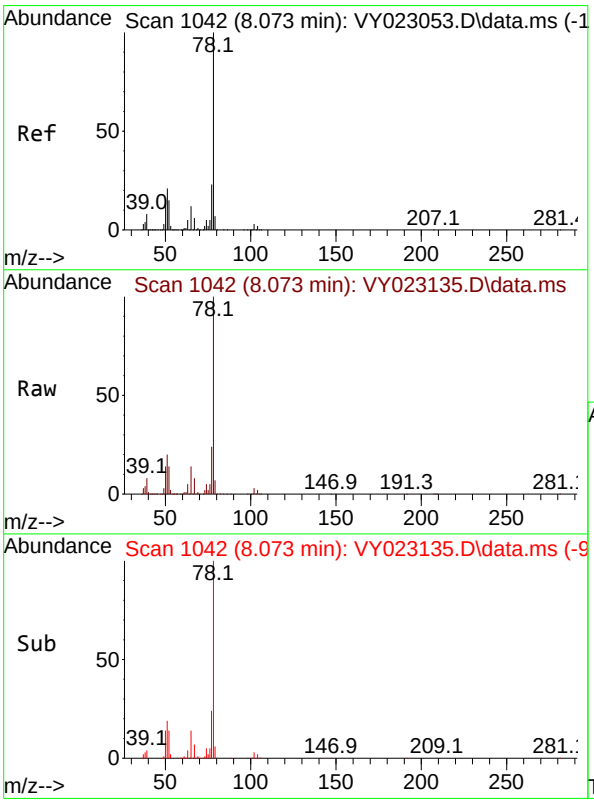
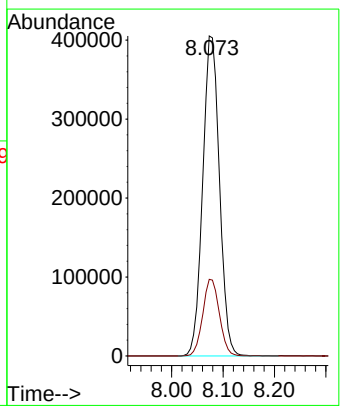


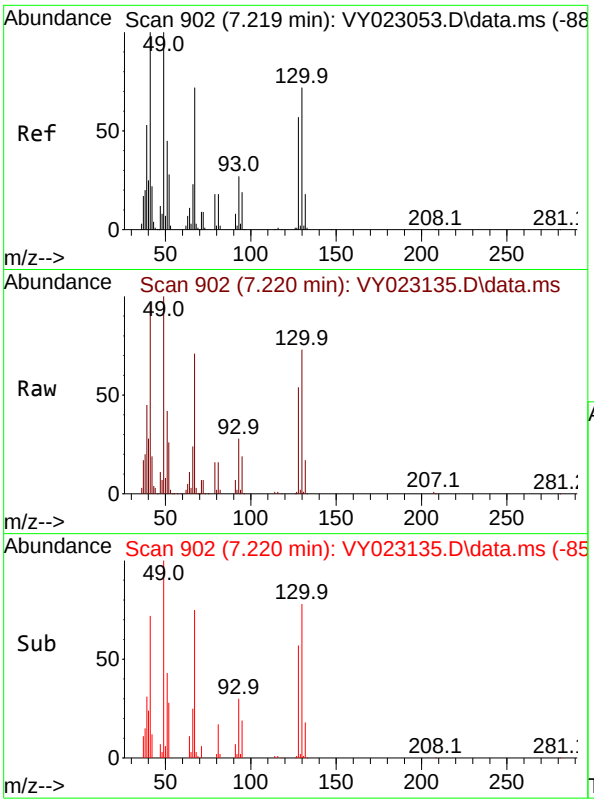


#40
Benzene
Concen: 46.514 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 78 Resp: 916243

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0

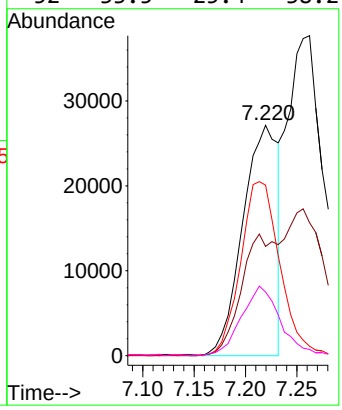




#41
Methacrylonitrile
Concen: 41.916 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 41 Resp: 6494

Ion	Ratio	Lower	Upper
41	100		
39	53.5	43.4	65.2
67	84.4	63.6	95.4
52	33.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
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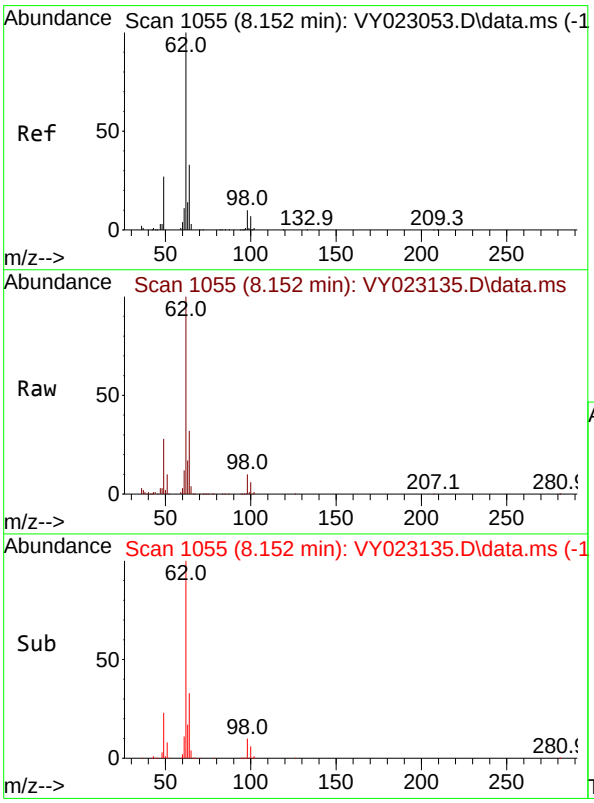
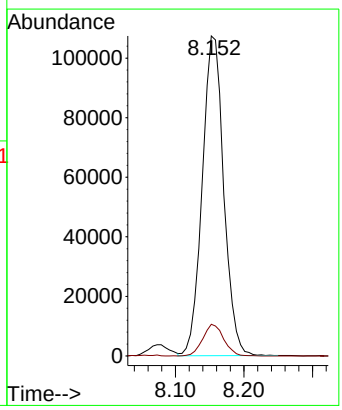
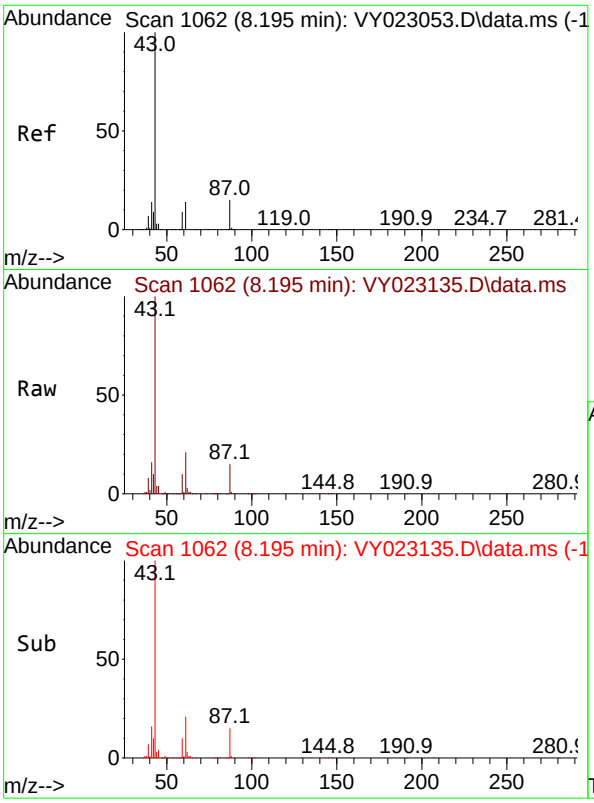


#42
1,2-Dichloroethane
Concen: 45.709 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 62 Resp: 234175

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	20.6





#43
Isopropyl Acetate
Concen: 43.470 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 23588

Ion	Ratio	Lower	Upper
43	100		
61	20.8	16.4	24.6
87	14.8	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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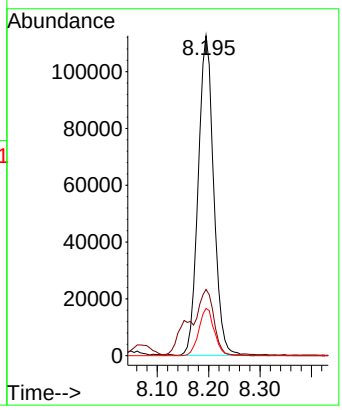
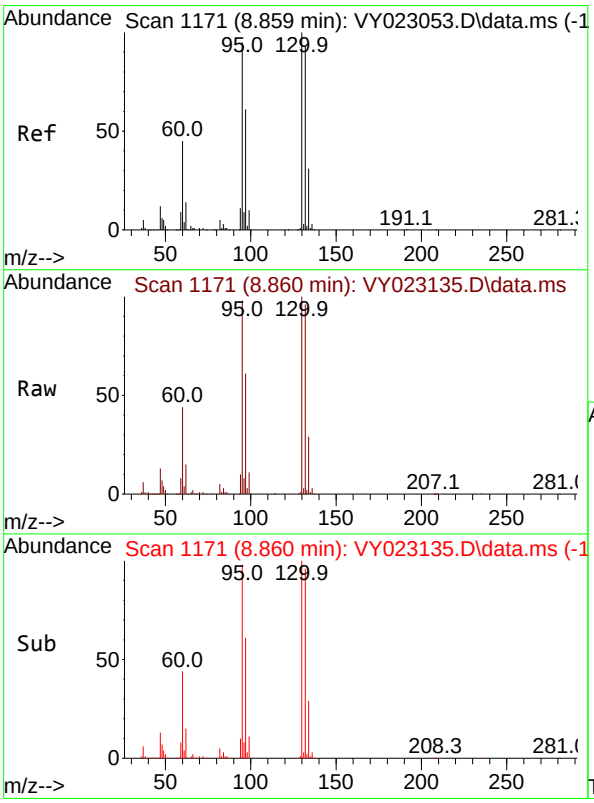
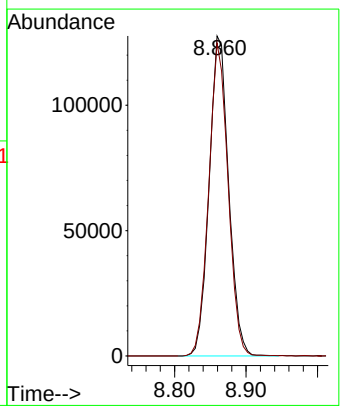


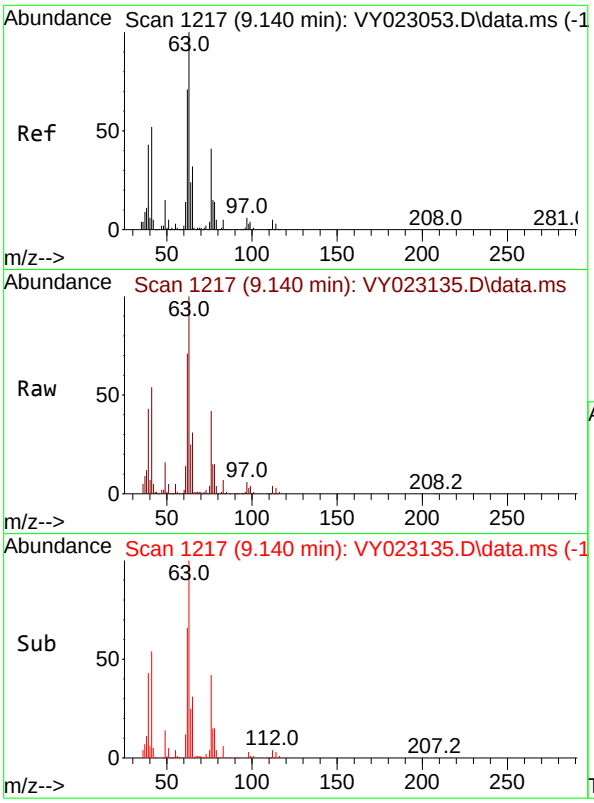


#44
Trichloroethene
Concen: 47.535 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:130 Resp: 241977

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	190.2

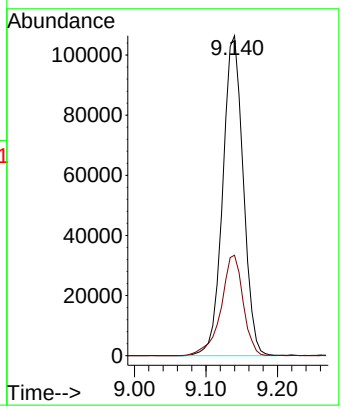




#45
1,2-Dichloropropane
Concen: 46.657 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 63 Resp: 21147

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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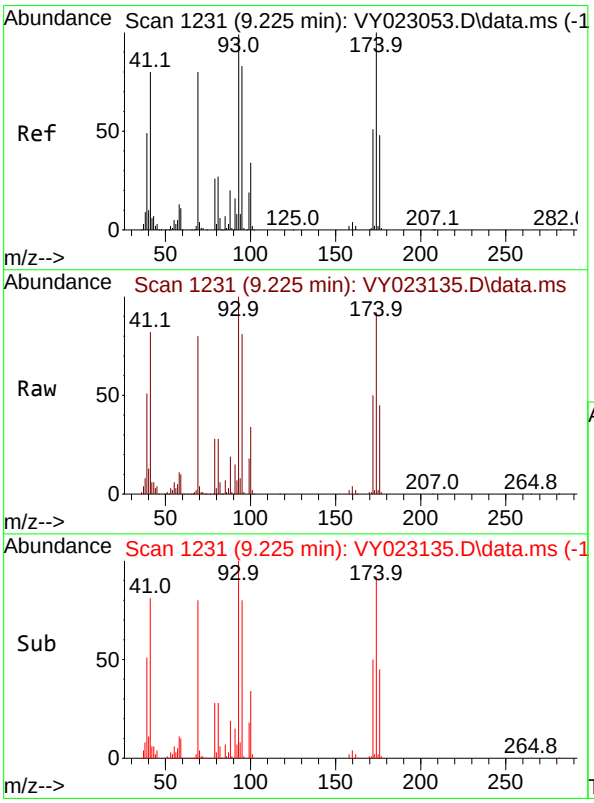
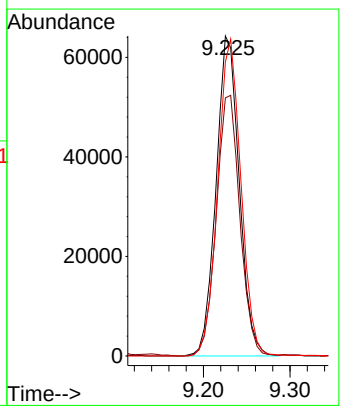
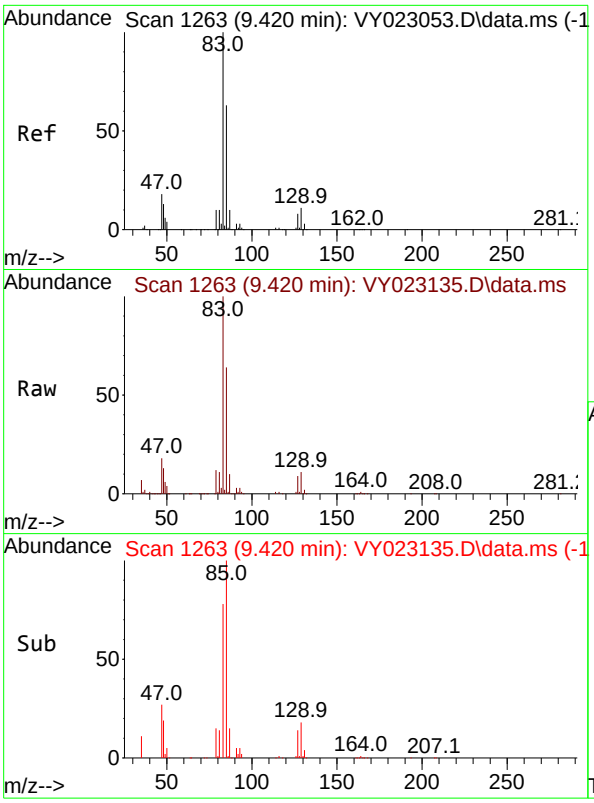


#46
Dibromomethane
Concen: 45.999 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 93 Resp: 119663

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.5	99.7
174	99.1	81.8	122.8

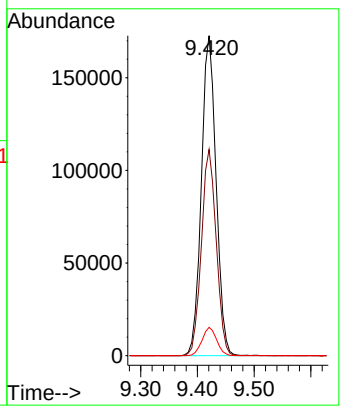




#47
Bromodichloromethane
Concen: 46.439 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 83 Resp: 31085

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.2	75.4
127	8.9	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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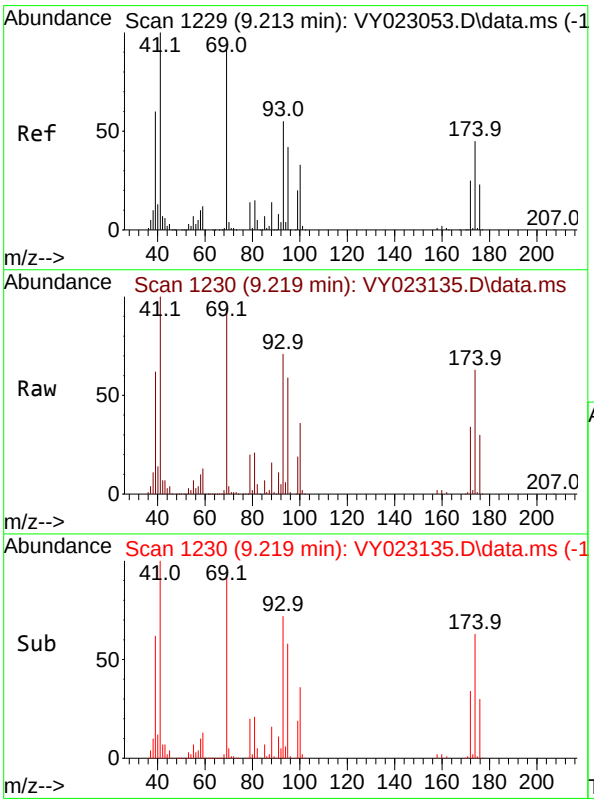
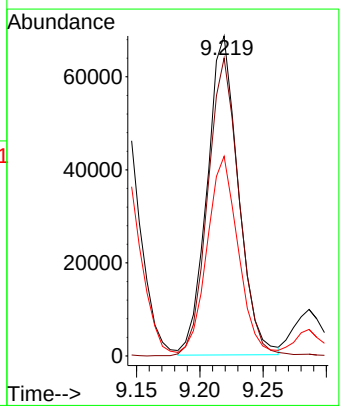
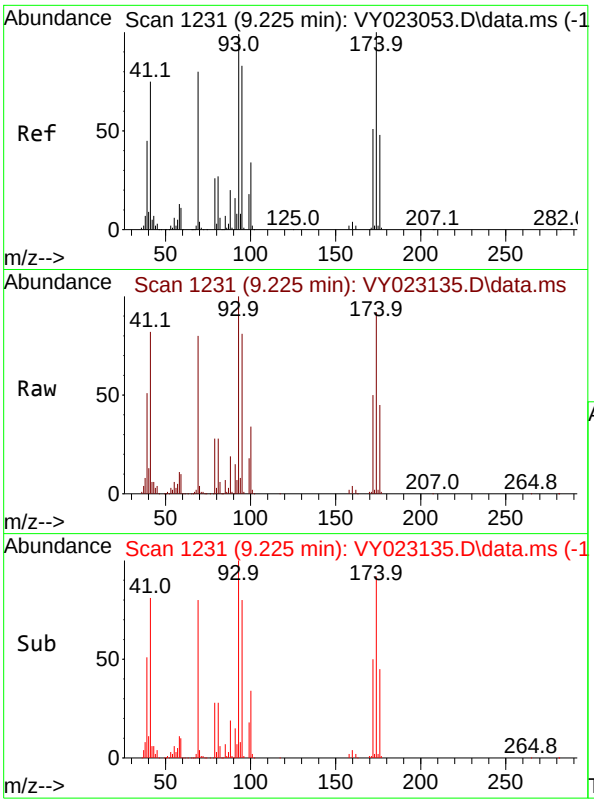


#48
Methyl methacrylate
Concen: 45.295 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 41 Resp: 117614

Ion	Ratio	Lower	Upper
41	100		
69	93.9	73.2	109.8
39	60.4	47.0	70.4





#49
1,4-Dioxane
Concen: 902.014 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 88 Resp: 2751

Ion	Ratio	Lower	Upper
88	100		
43	32.9	24.3	36.5
58	61.0	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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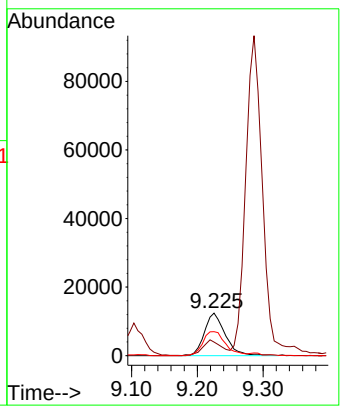
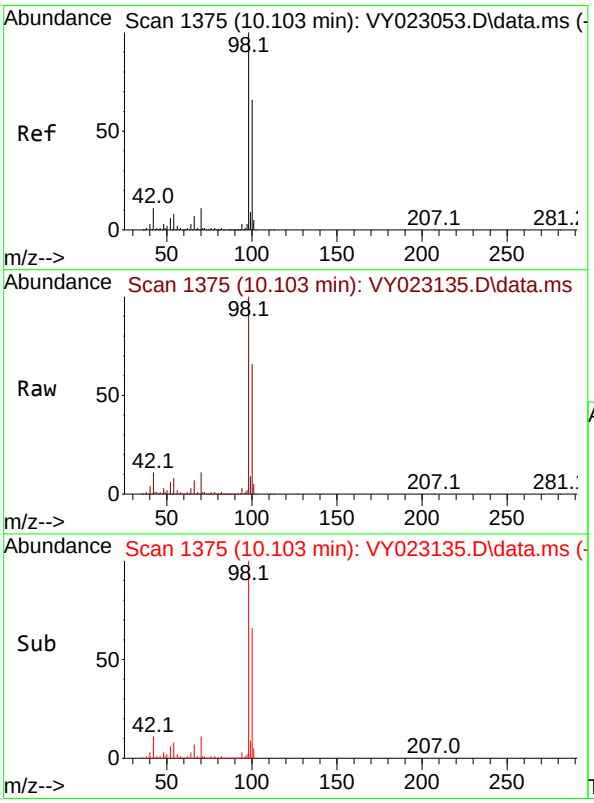
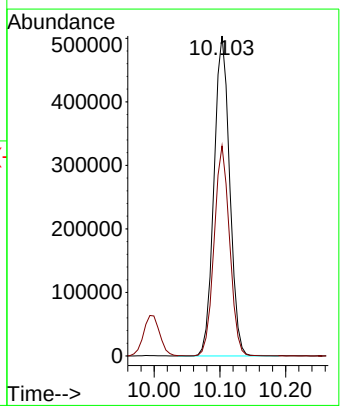


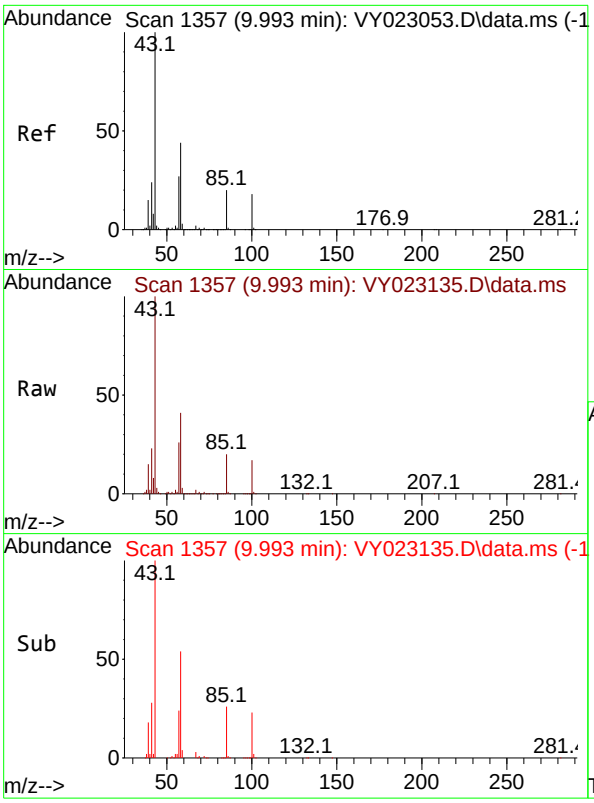


#50
Toluene-d8
Concen: 49.738 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 98 Resp: 835617

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.3	78.5

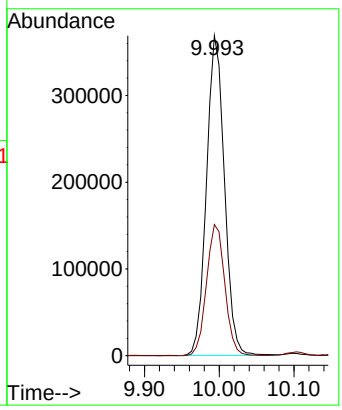




#51
4-Methyl-2-Pentanone
Concen: 219.870 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 61542

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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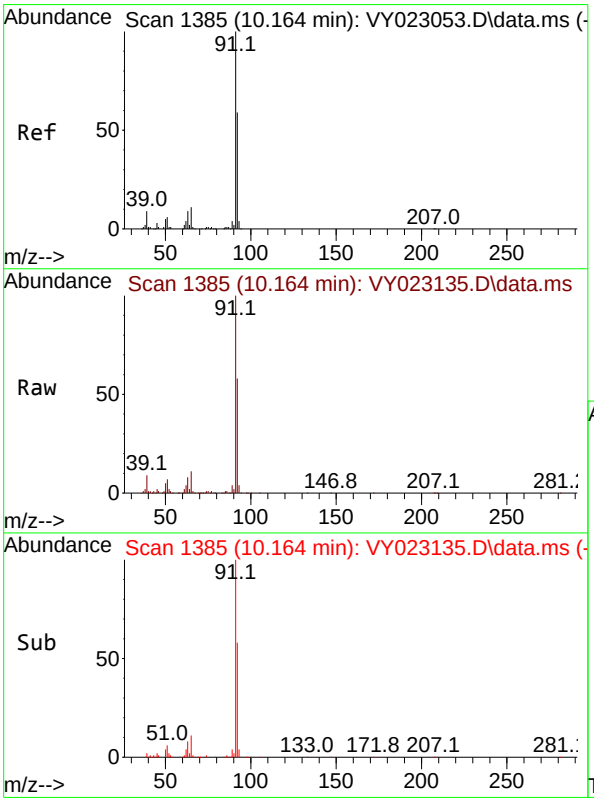
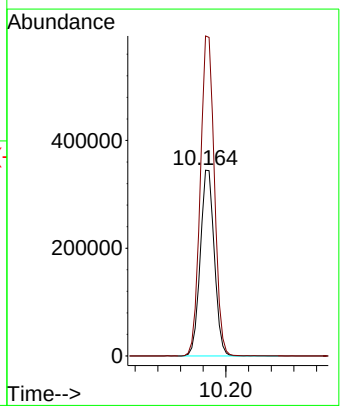
Supervised By :Mahesh Dadoda 08/19/2025

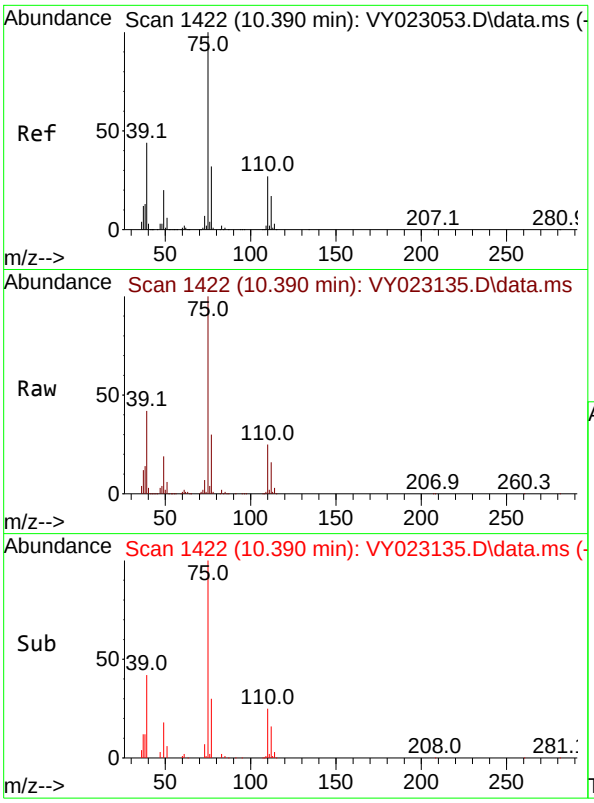


#52
Toluene
Concen: 47.285 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 92 Resp: 591580

Ion	Ratio	Lower	Upper
92	100		
91	172.9	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 45.264 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 27437

Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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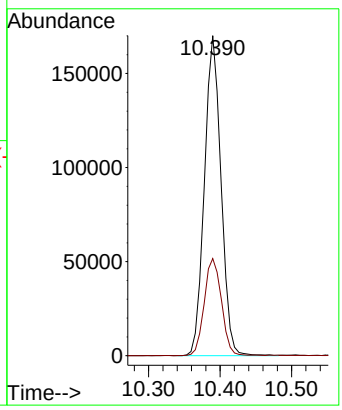
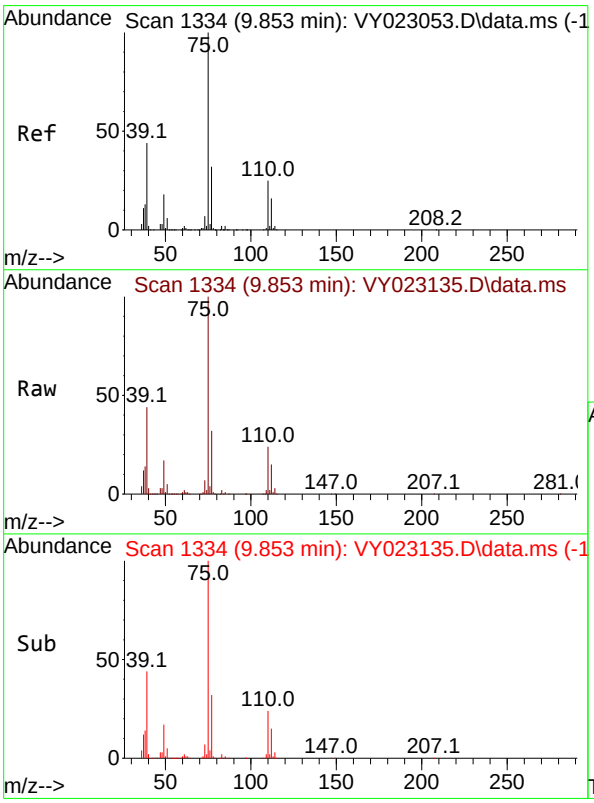
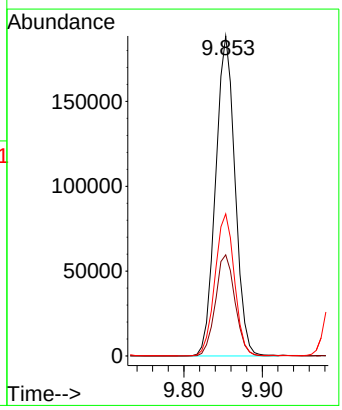


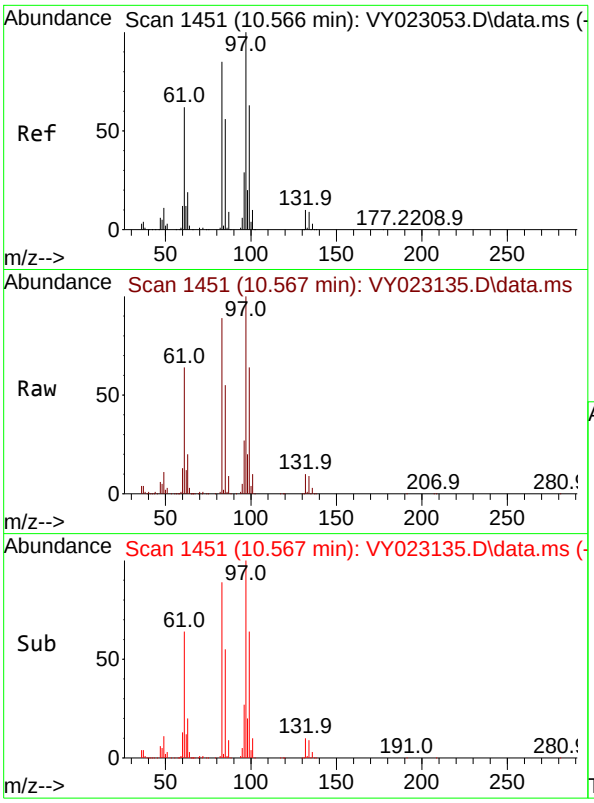


#54
cis-1,3-Dichloropropene
Concen: 45.347 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 325037

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.0
39	44.4	35.6	53.4

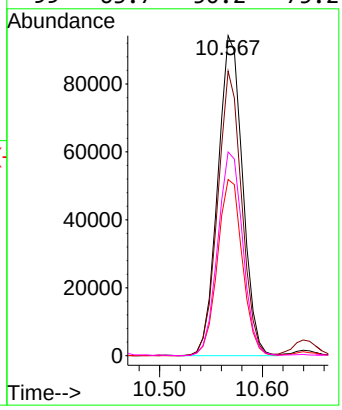




#55
1,1,2-Trichloroethane
Concen: 45.358 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 97 Resp: 15789

Ion	Ratio	Lower	Upper
97	100		
83	89.0	67.7	101.5
85	55.1	44.5	66.7
99	63.7	50.2	75.2



Instrument :
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ClientSampleId :
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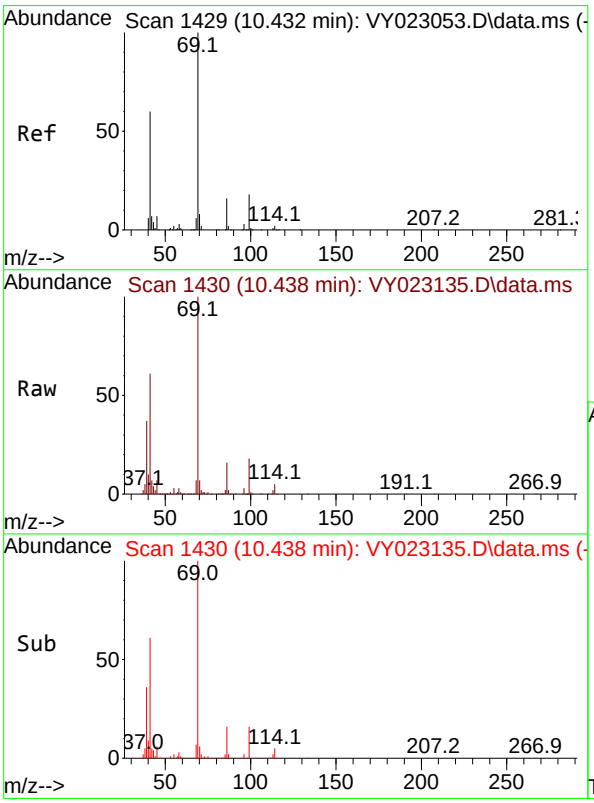
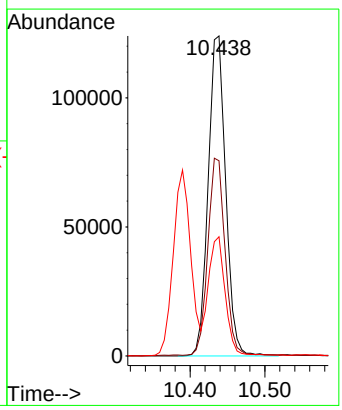
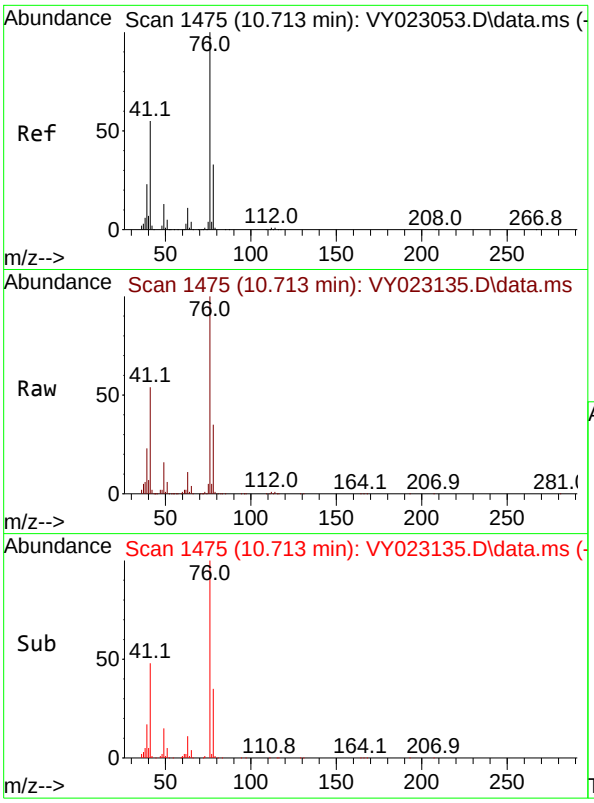


#56
Ethyl methacrylate
Concen: 45.302 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 69 Resp: 201789

Ion	Ratio	Lower	Upper
69	100		
41	61.9	48.6	72.8
39	35.7	27.0	40.4

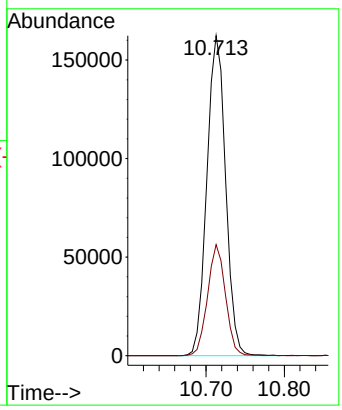




#57
1,3-Dichloropropane
Concen: 45.582 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 76 Resp: 26909

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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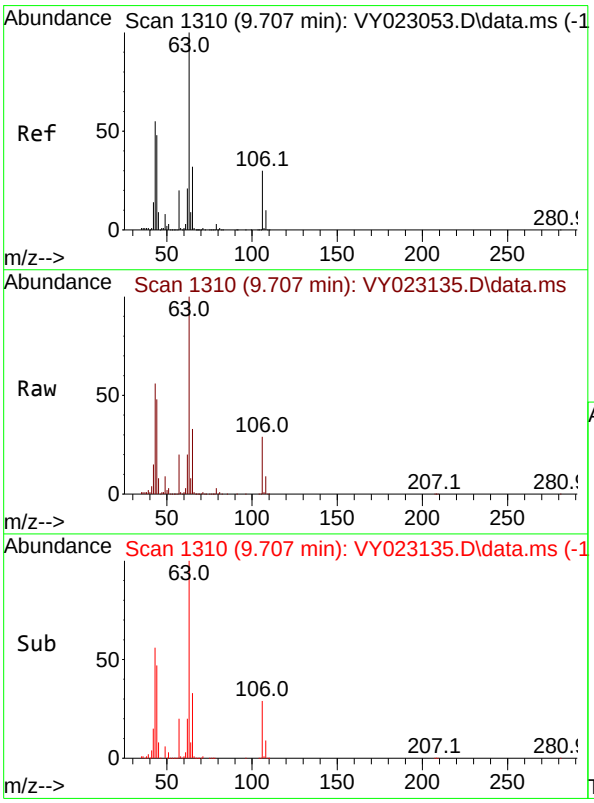
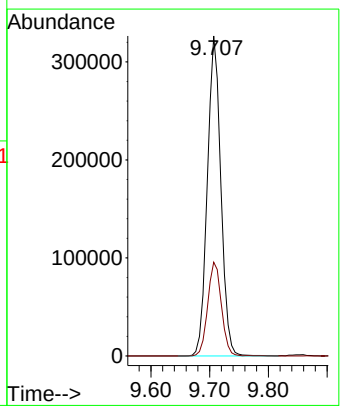
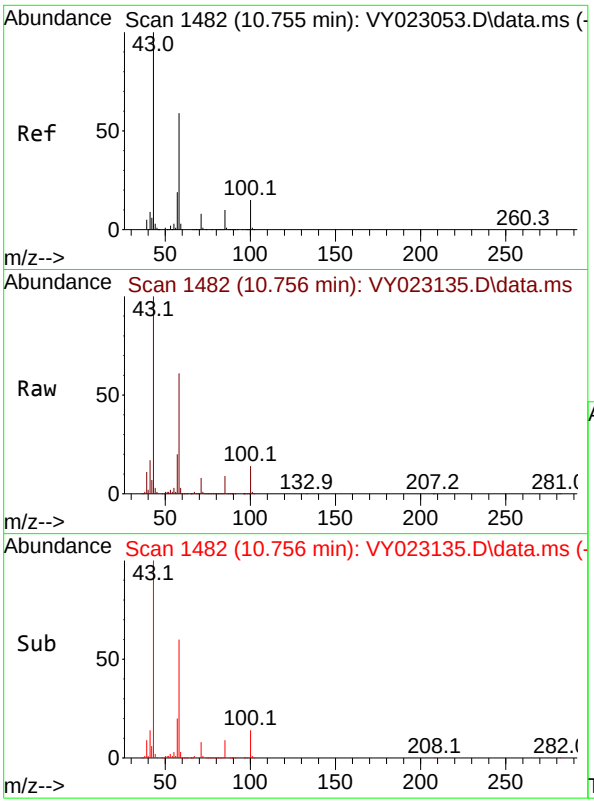


#58
2-Chloroethyl Vinyl ether
Concen: 247.890 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 63 Resp: 520841

Ion	Ratio	Lower	Upper
63	100		
106	29.7	23.2	34.8





#59
2-Hexanone
Concen: 211.536 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 40317

Ion	Ratio	Lower	Upper
43	100		
58	58.6	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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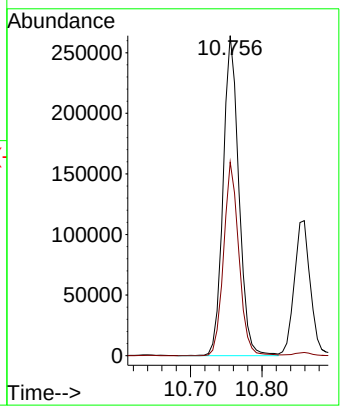
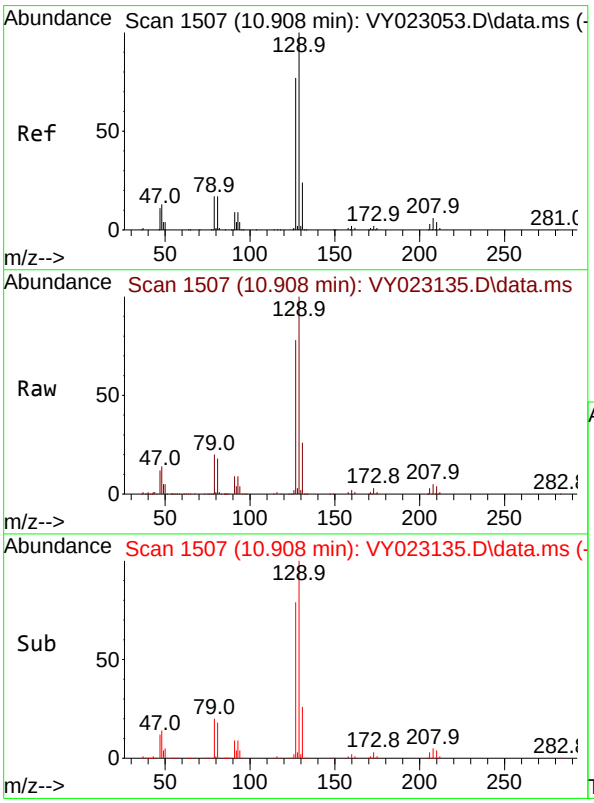
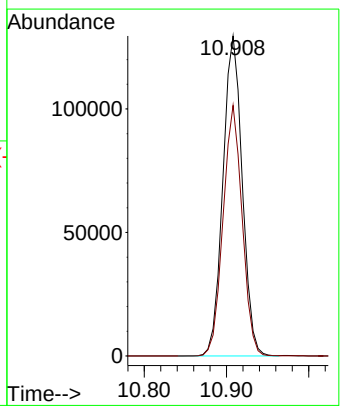


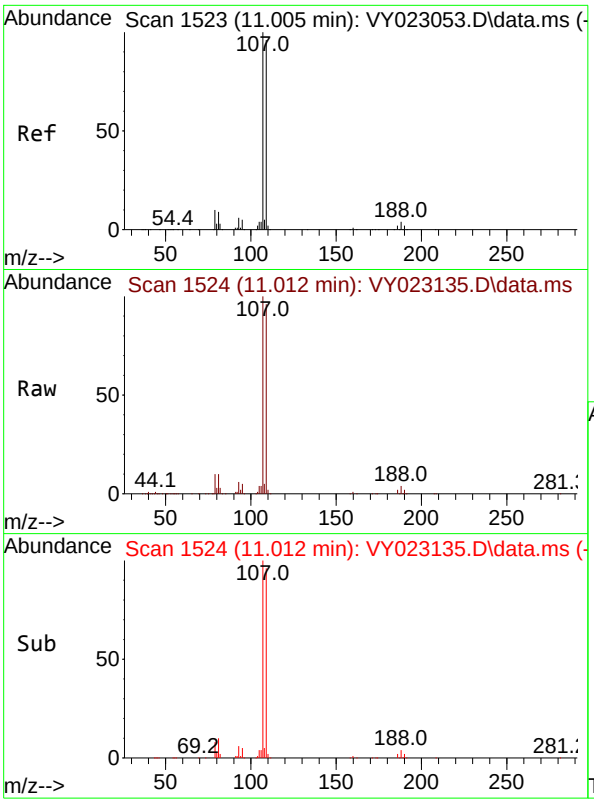


#60
Dibromochloromethane
Concen: 46.058 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:129 Resp: 211553

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5

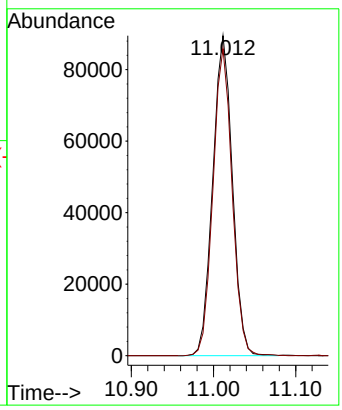




#61
1,2-Dibromoethane
Concen: 45.352 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:107 Resp: 14838

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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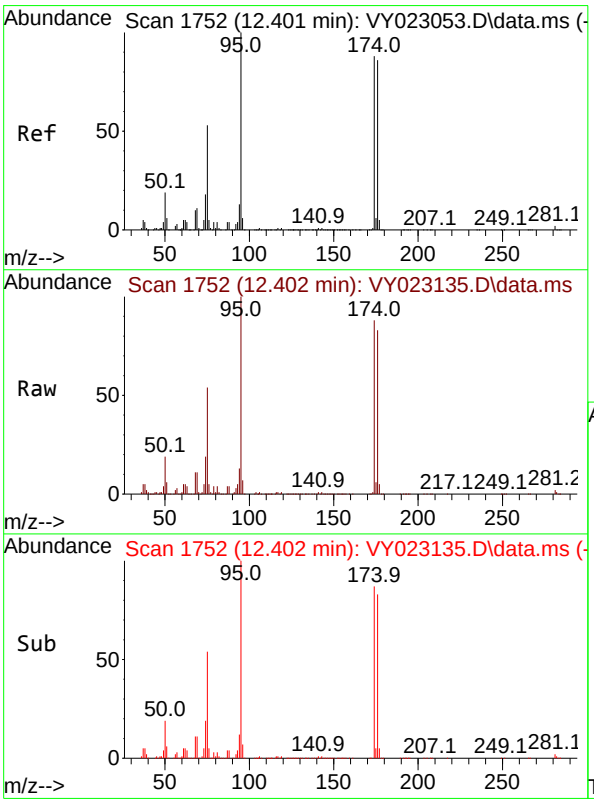
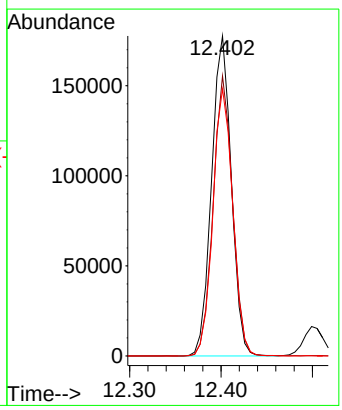
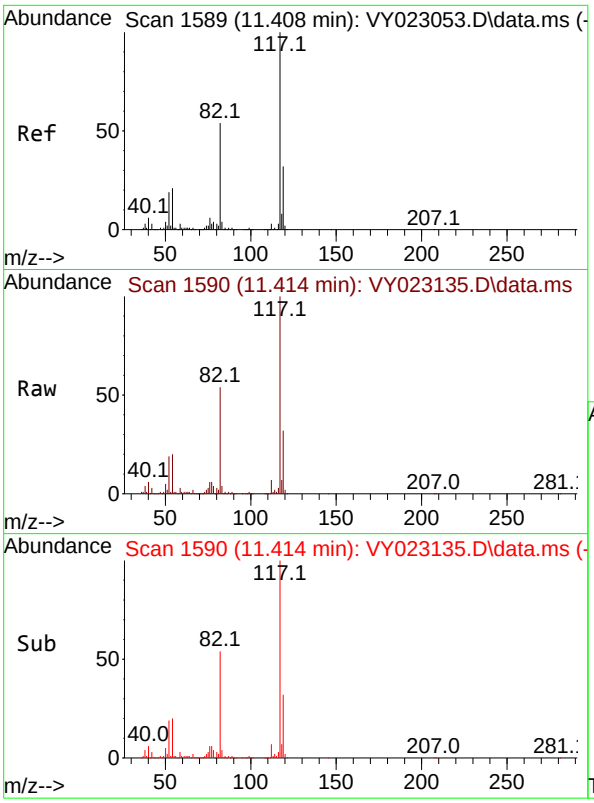


#62
4-Bromofluorobenzene
Concen: 49.275 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 95 Resp: 266231

Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	171.6
176	84.1	0.0	167.6

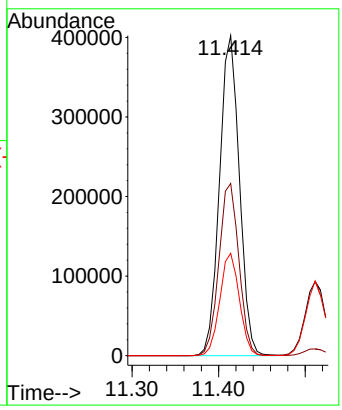




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:117 Resp: 64079

Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.4	65.0
119	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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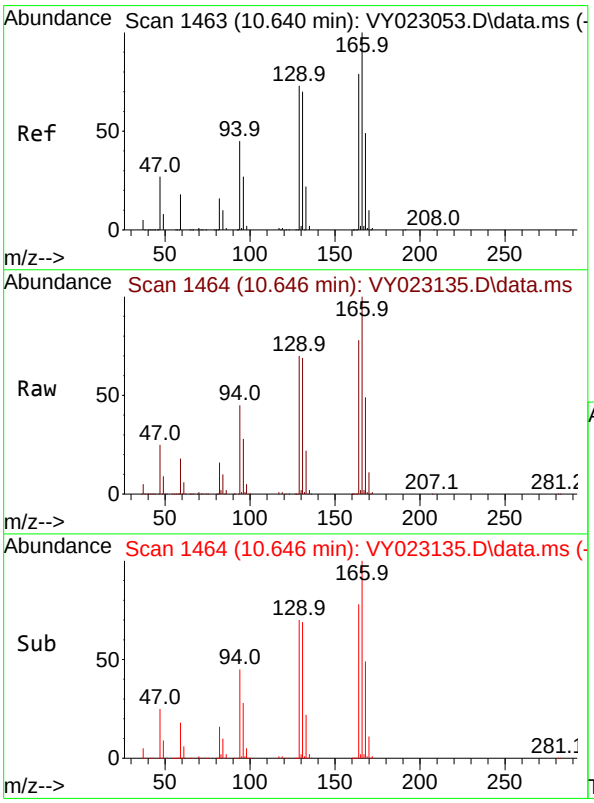
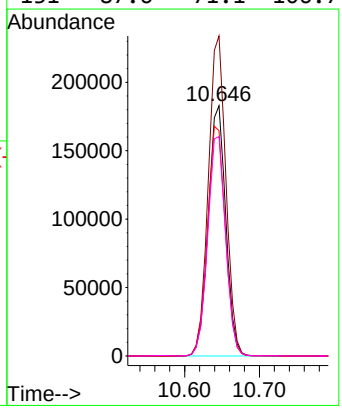
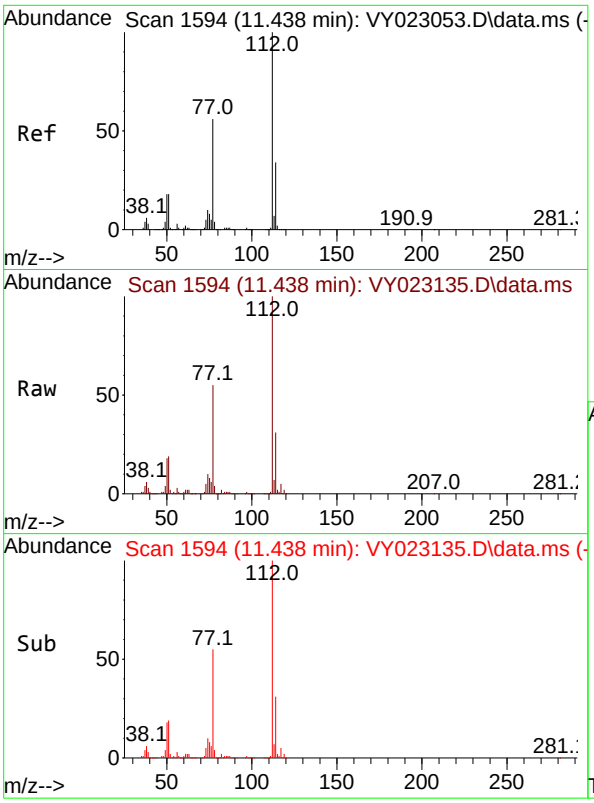


#64
Tetrachloroethene
Concen: 52.075 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:164 Resp: 297964

Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.1	151.7
129	90.0	74.0	111.0
131	87.6	71.1	106.7

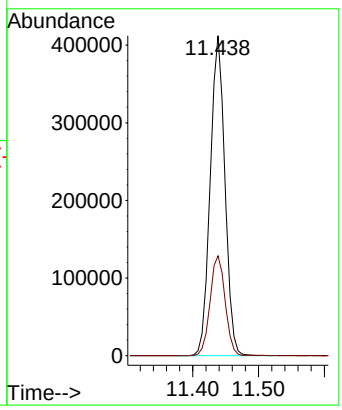




#65
Chlorobenzene
Concen: 46.339 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:112 Resp: 64049

Ion	Ratio	Lower	Upper
112	100		
114	31.2	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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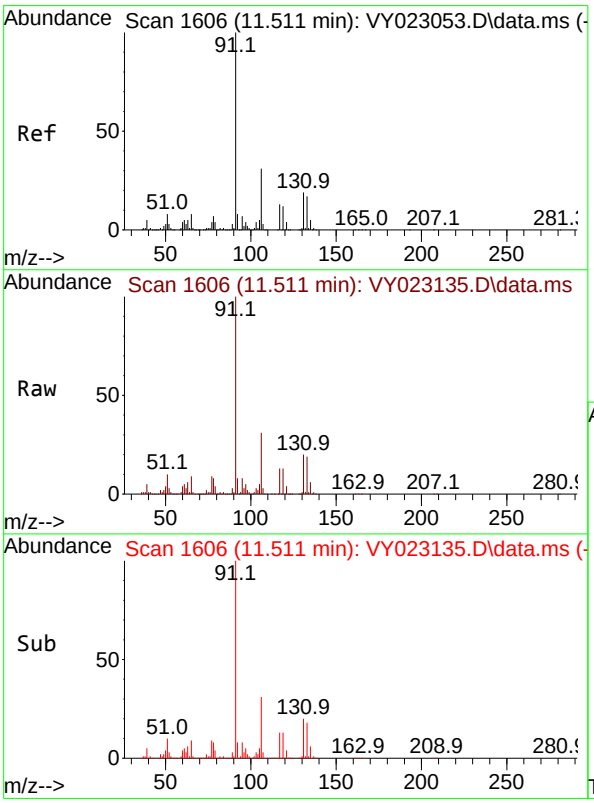
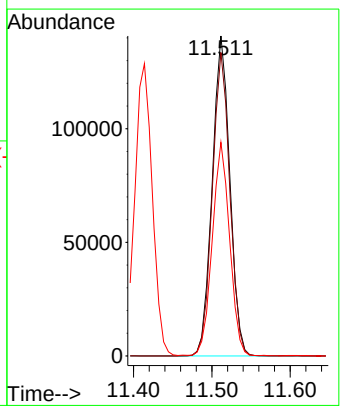
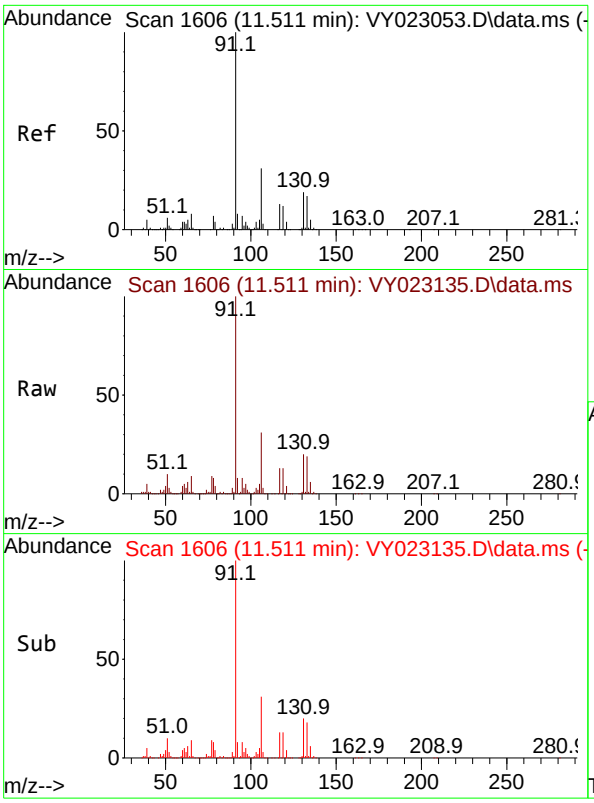


#66
1,1,1,2-Tetrachloroethane
Concen: 46.876 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:131 Resp: 219895

Ion	Ratio	Lower	Upper
131	100		
133	94.4	46.9	140.6
119	65.9	33.2	99.6

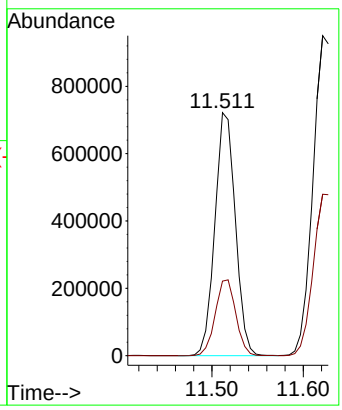




#67
Ethyl Benzene
Concen: 47.266 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 112427

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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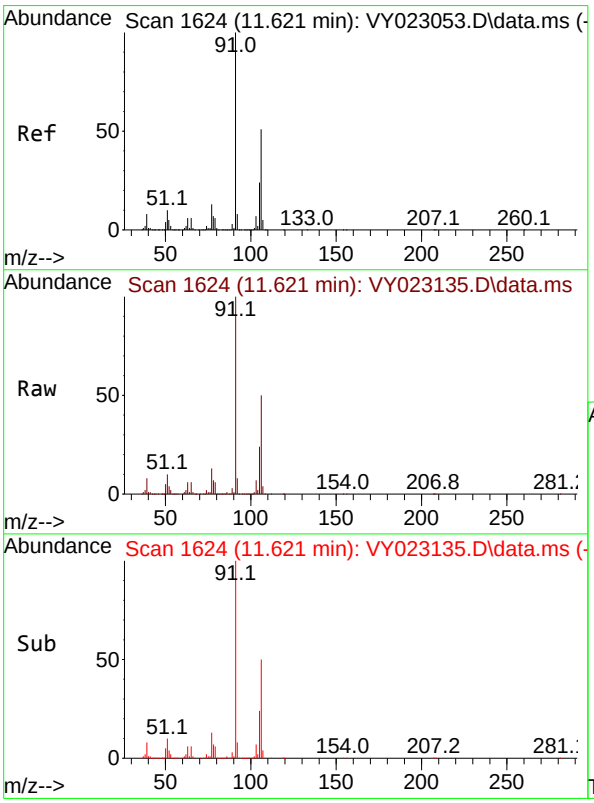
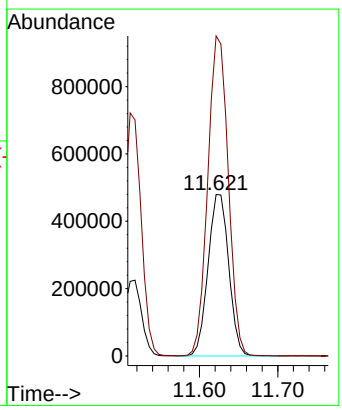
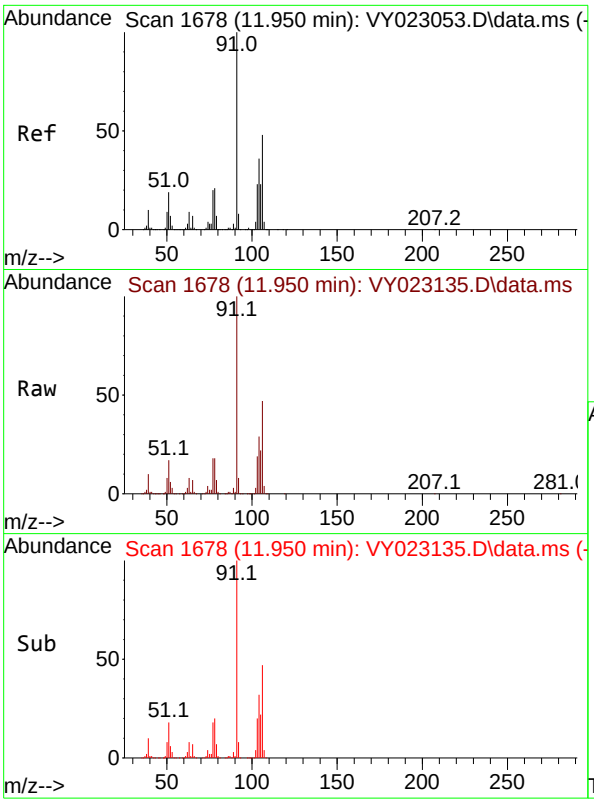


#68
m/p-Xylenes
Concen: 94.610 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:106 Resp: 878925

Ion	Ratio	Lower	Upper
106	100		
91	196.6	158.6	238.0





#69
o-Xylene
Concen: 47.384 ug/l
RT: 11.950 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:106 Resp: 41228

Ion	Ratio	Lower	Upper
106	100		
91	210.0	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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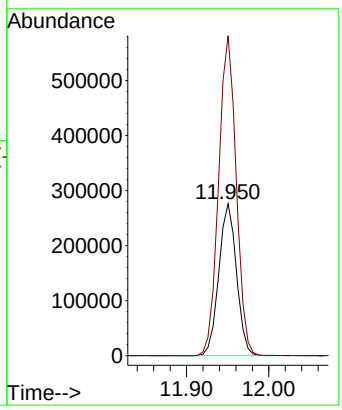
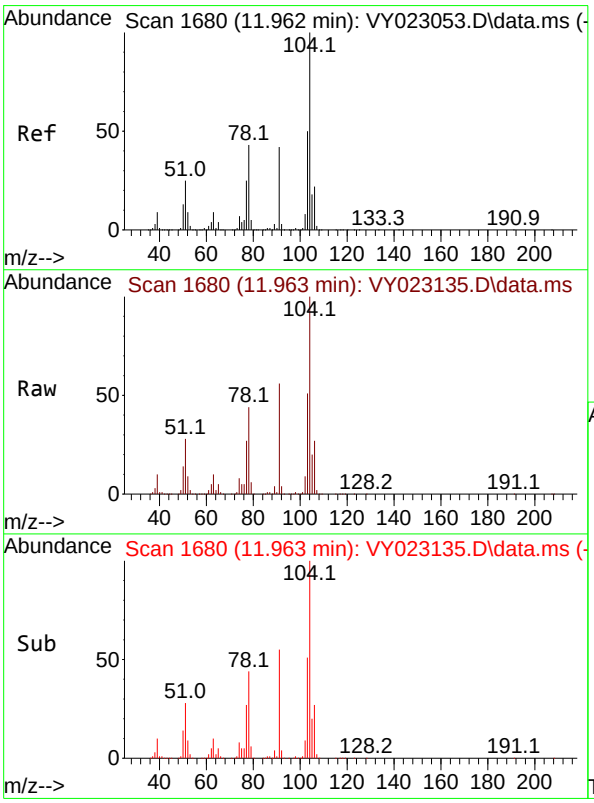
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

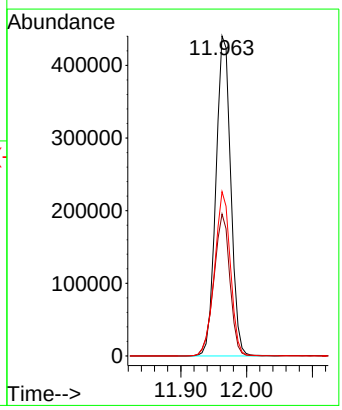


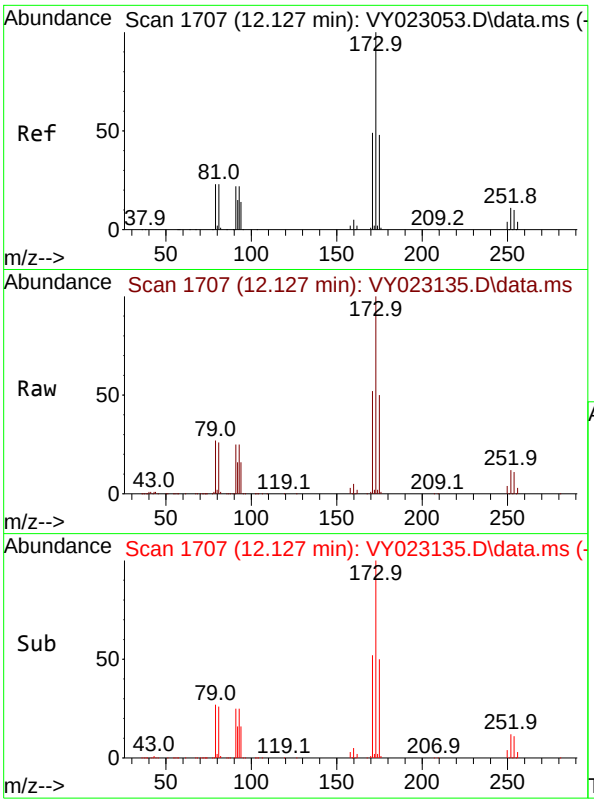


#70
Styrene
Concen: 48.738 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:104 Resp: 693511

Ion	Ratio	Lower	Upper
104	100		
78	47.7	38.5	57.7
103	54.8	43.7	65.5

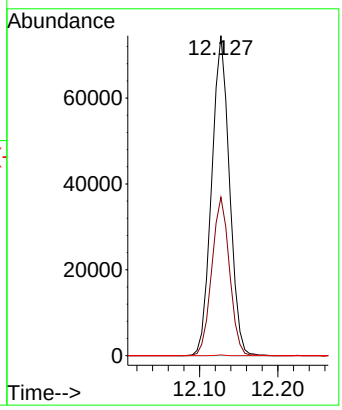




#71
Bromoform
Concen: 42.892 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:173 Resp: 11759

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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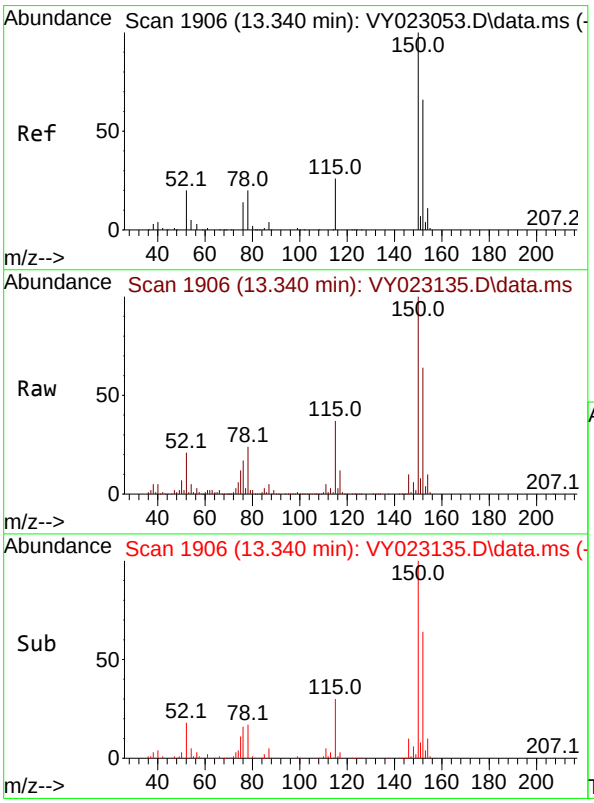
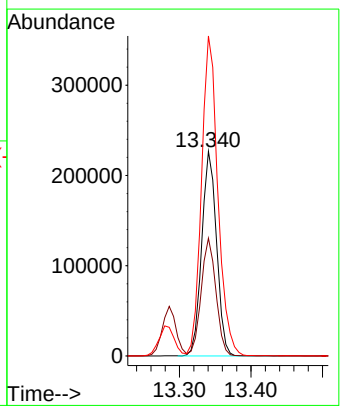
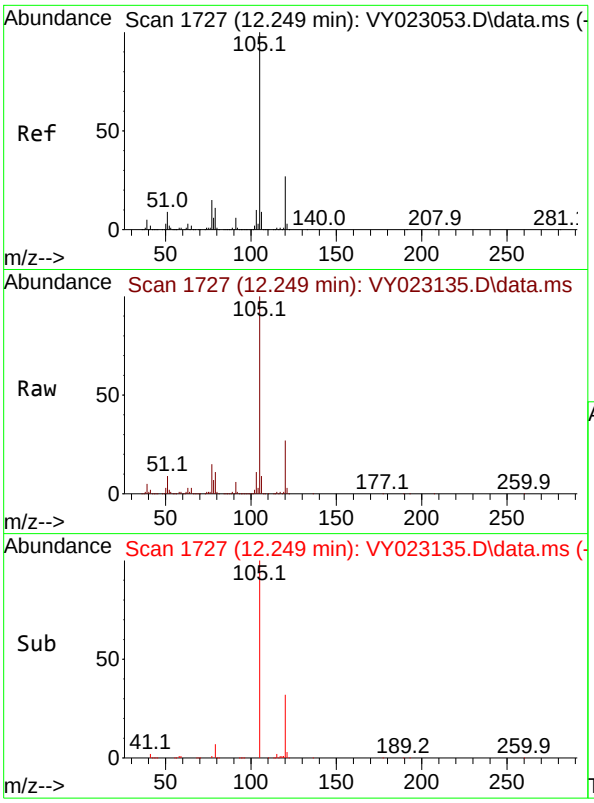


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:152 Resp: 327055

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.6
150	172.0	0.0	348.0

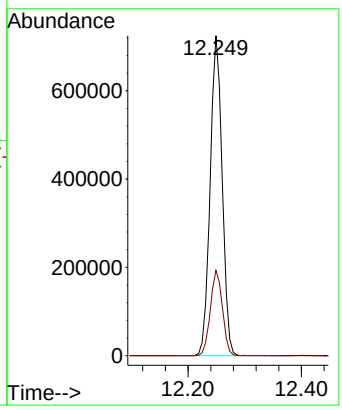




#73
Isopropylbenzene
Concen: 46.232 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:105 Resp: 106718

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2



Instrument :
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ClientSampleId :
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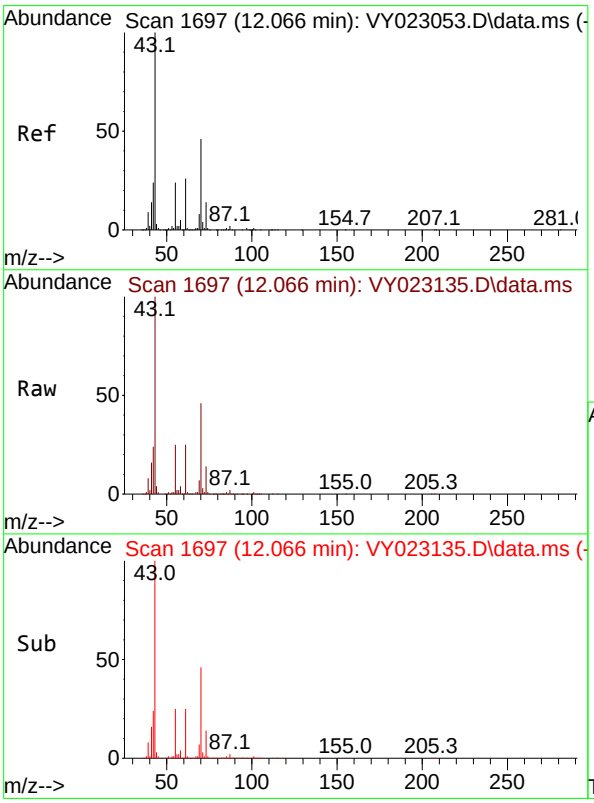
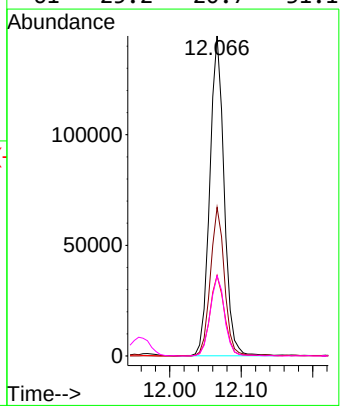
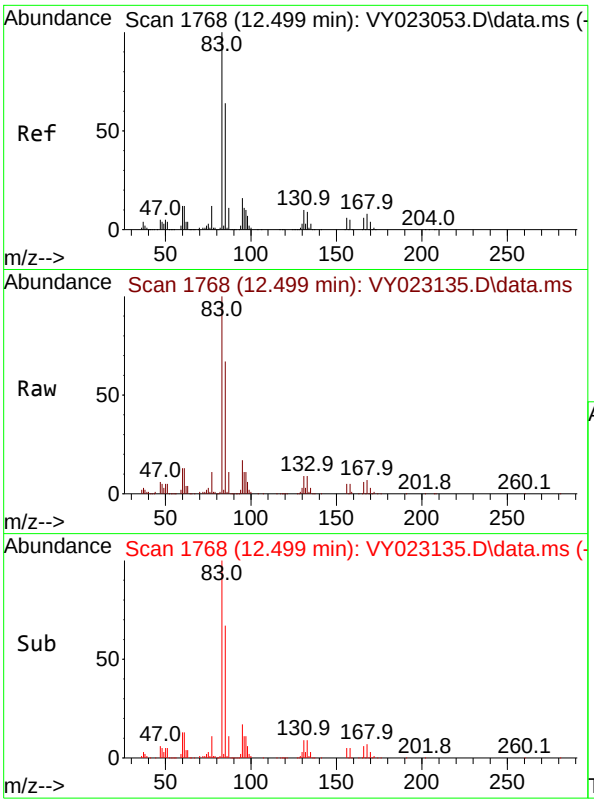


#74
N-amyl acetate
Concen: 41.170 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 201534

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.5	56.3
55	25.7	20.7	31.1
61	25.2	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 38.093 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 83 Resp: 15014

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	65.2	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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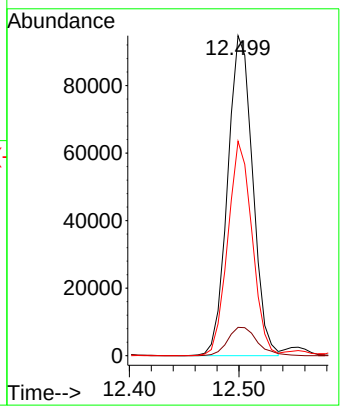
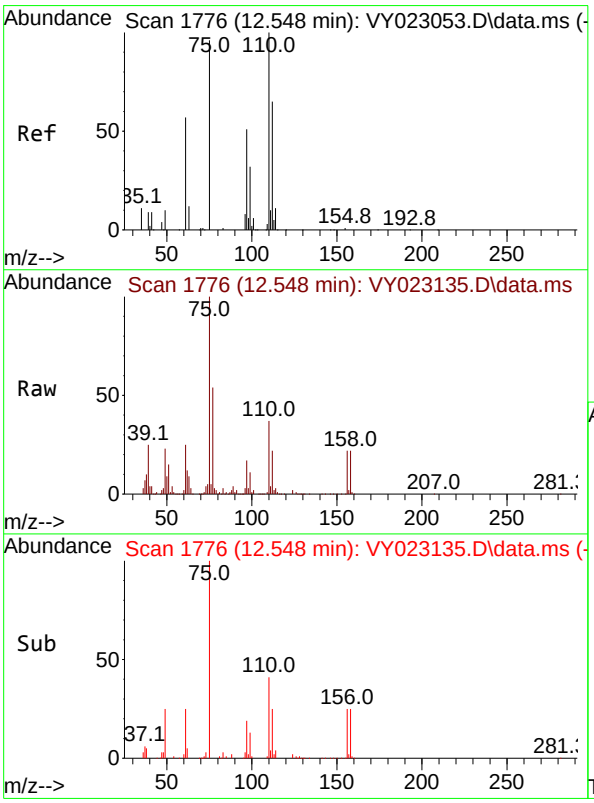
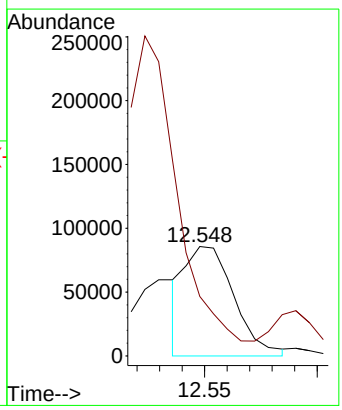


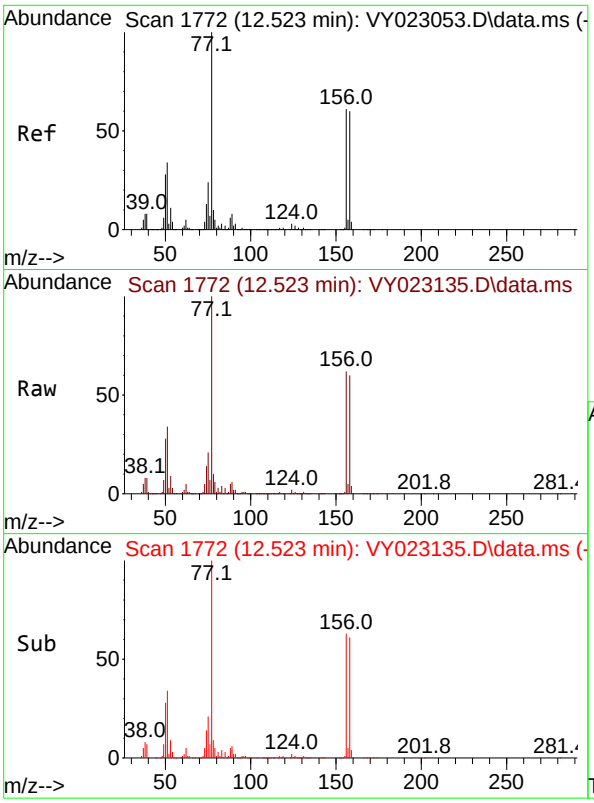


#76
1,2,3-Trichloropropane
Concen: 41.694 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 131604

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

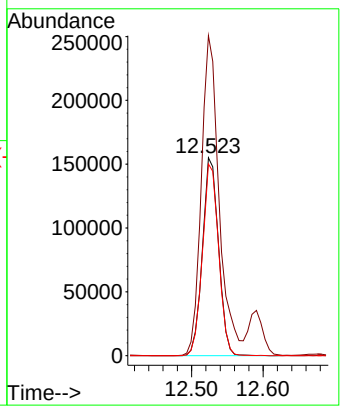




#77
Bromobenzene
Concen: 44.080 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:156 Resp: 24274

Ion	Ratio	Lower	Upper
156	100		
77	179.2	88.1	264.4
158	97.3	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
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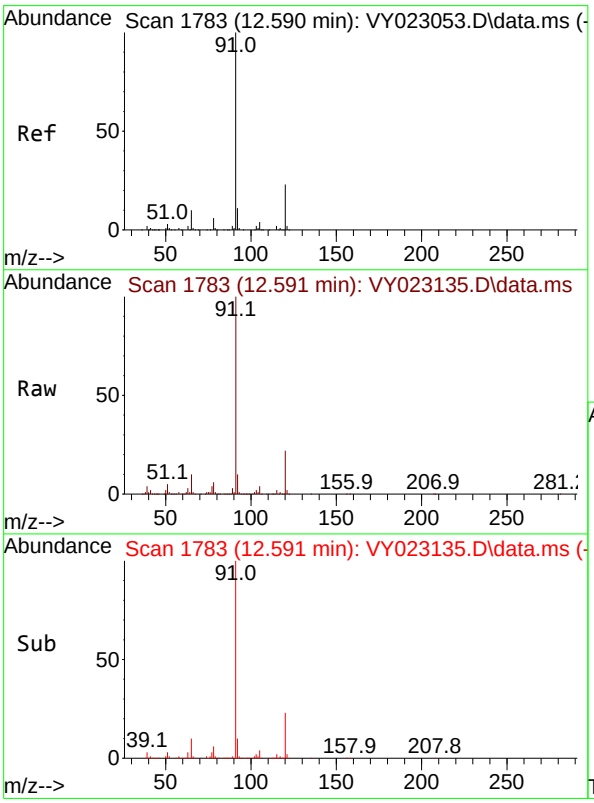
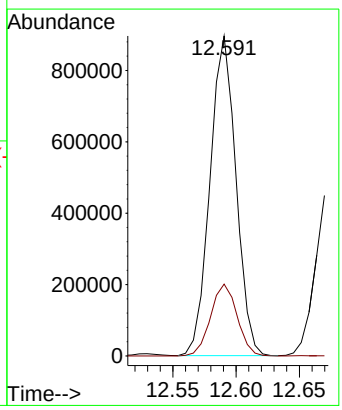
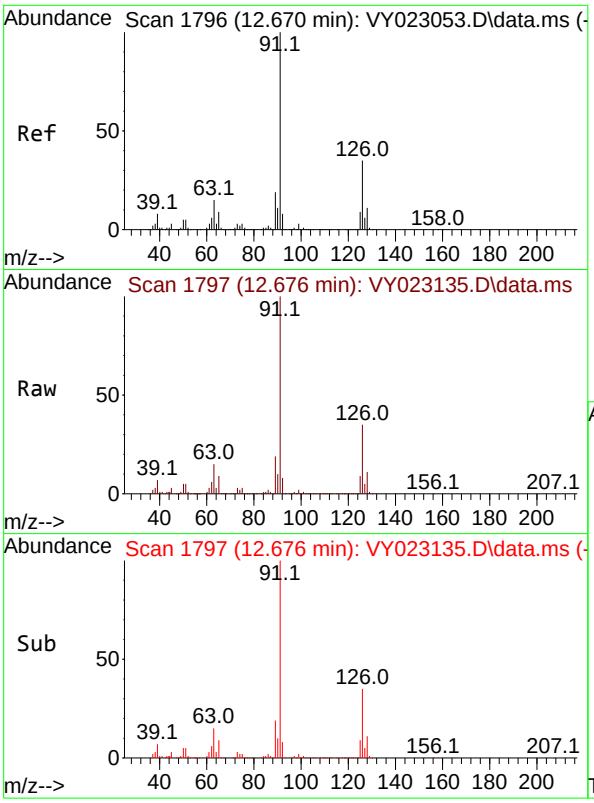


#78
n-propylbenzene
Concen: 46.593 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 1280468

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

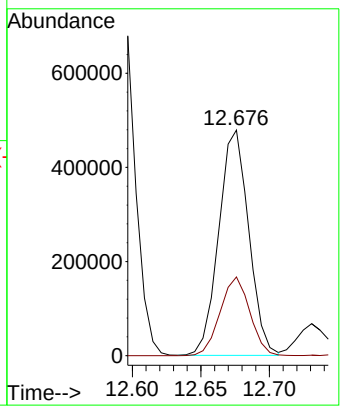




#79
2-Chlorotoluene
Concen: 46.284 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 72878

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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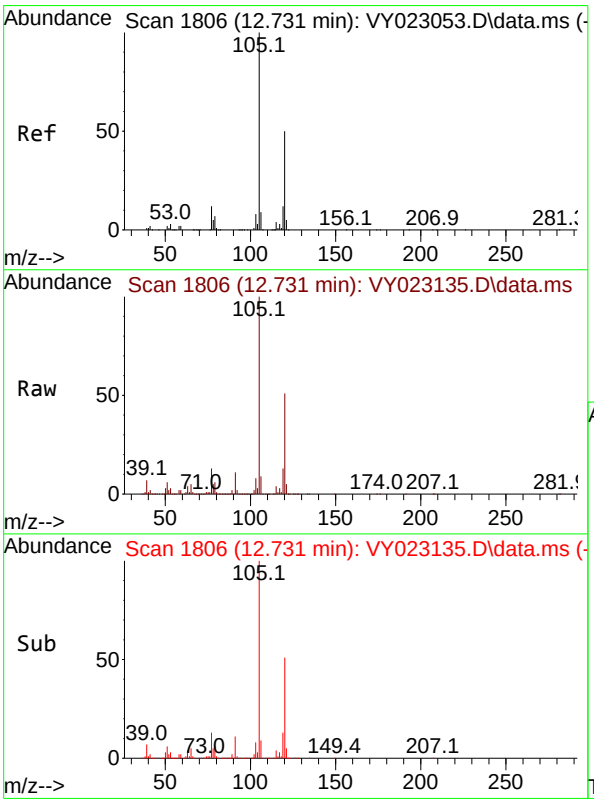
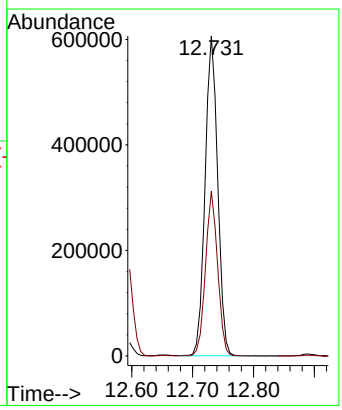
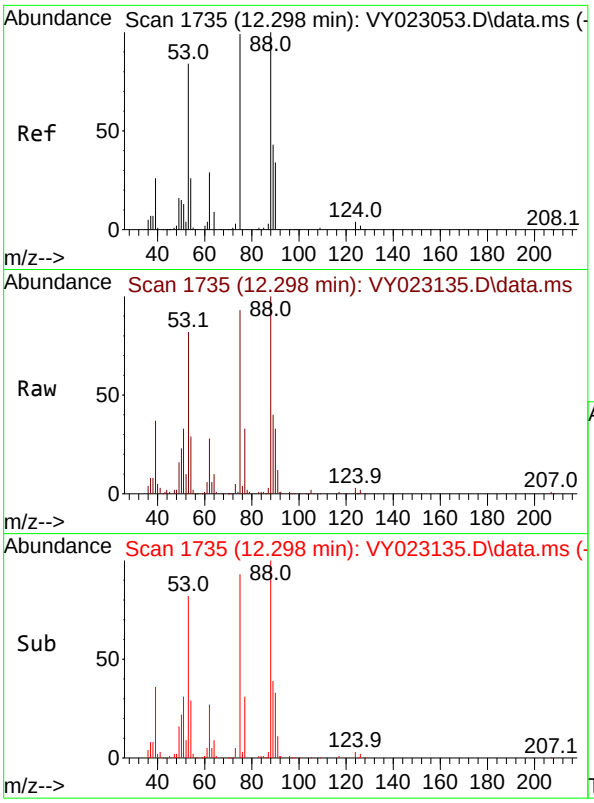


#80
1,3,5-Trimethylbenzene
Concen: 46.663 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:105 Resp: 870525

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 39.640 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 5168

Ion	Ratio	Lower	Upper
75	100		
53	89.8	70.8	106.2
89	44.6	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
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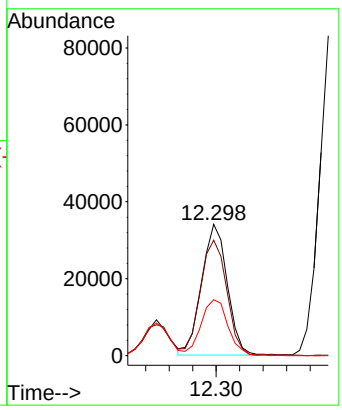
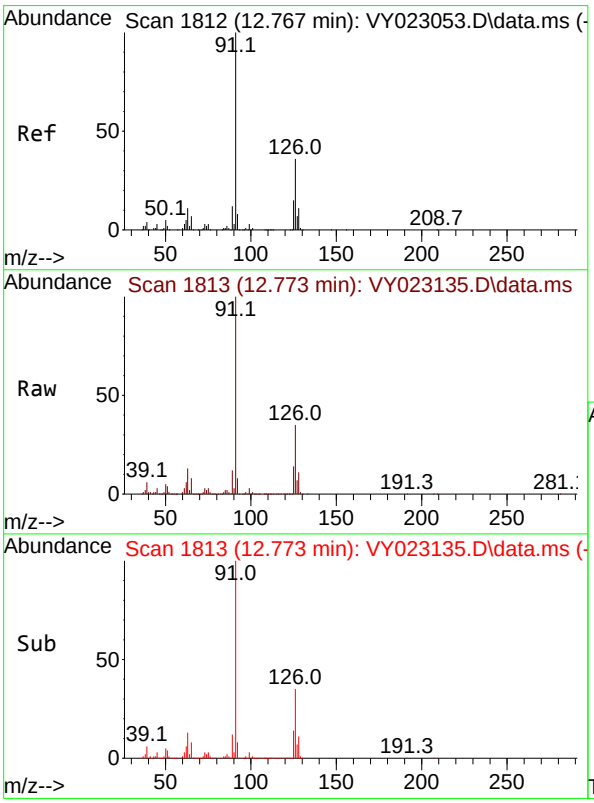
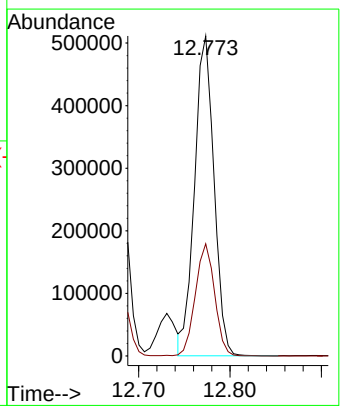


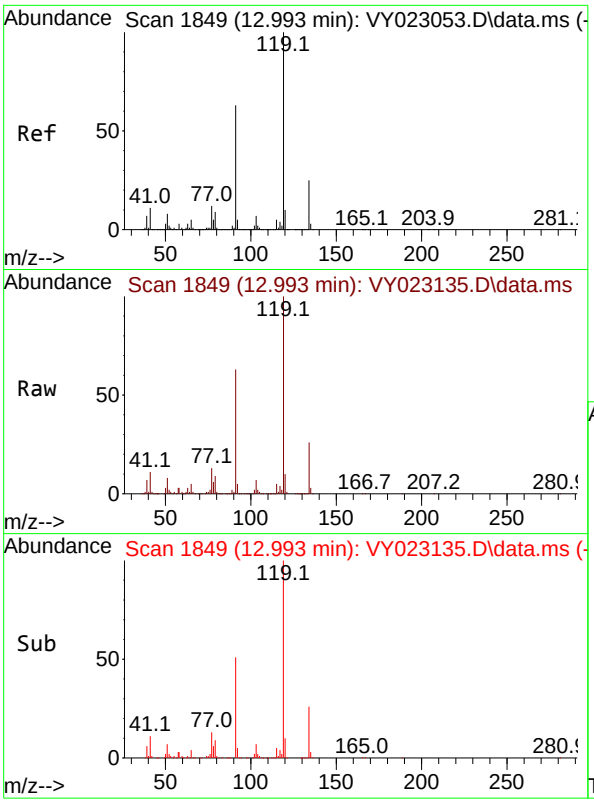


#82
4-Chlorotoluene
Concen: 46.196 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 754599

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0





#83
tert-Butylbenzene
Concen: 46.181 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:119 Resp: 77811

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.6	94.8
134	25.6	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
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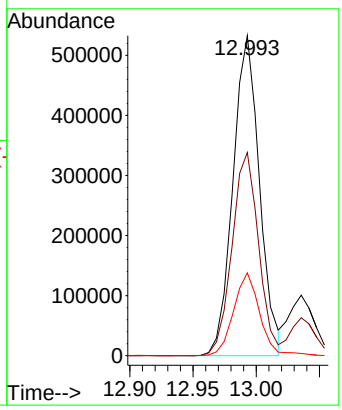
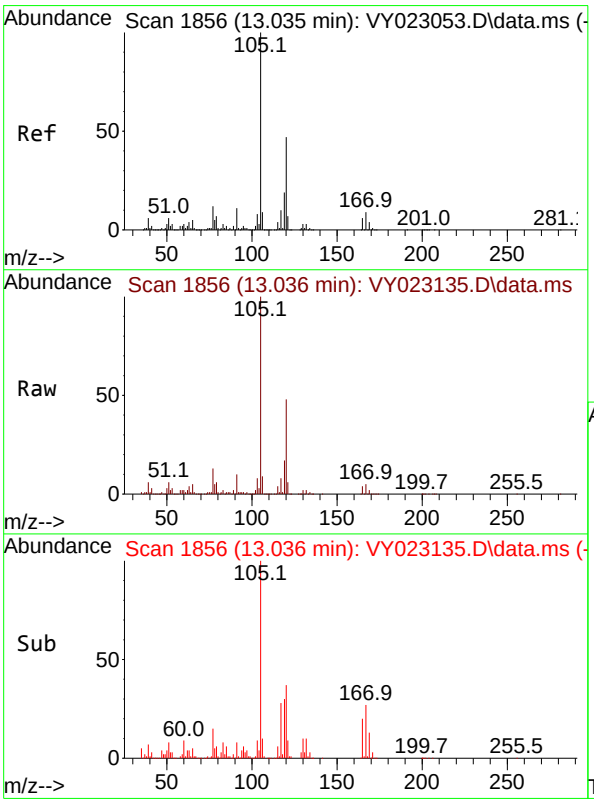
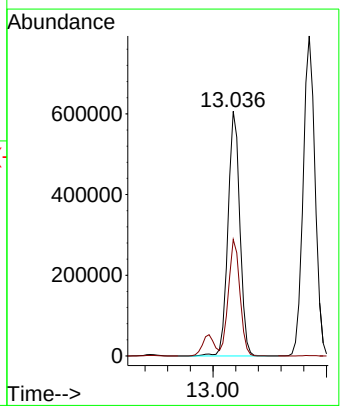


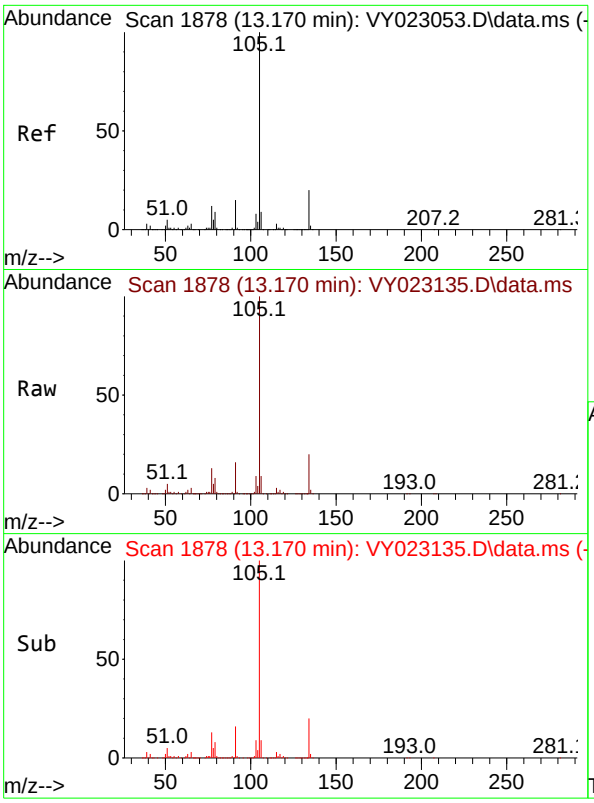


#84
1,2,4-Trimethylbenzene
Concen: 47.349 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:105 Resp: 879311

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

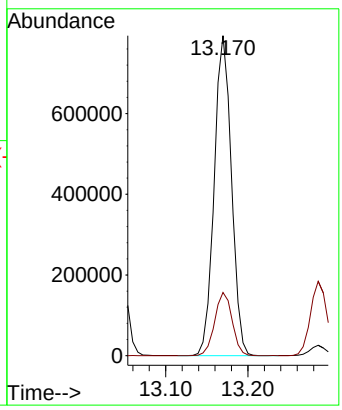




#85
sec-Butylbenzene
Concen: 46.712 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:105 Resp: 115616

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.2	30.4



Instrument :
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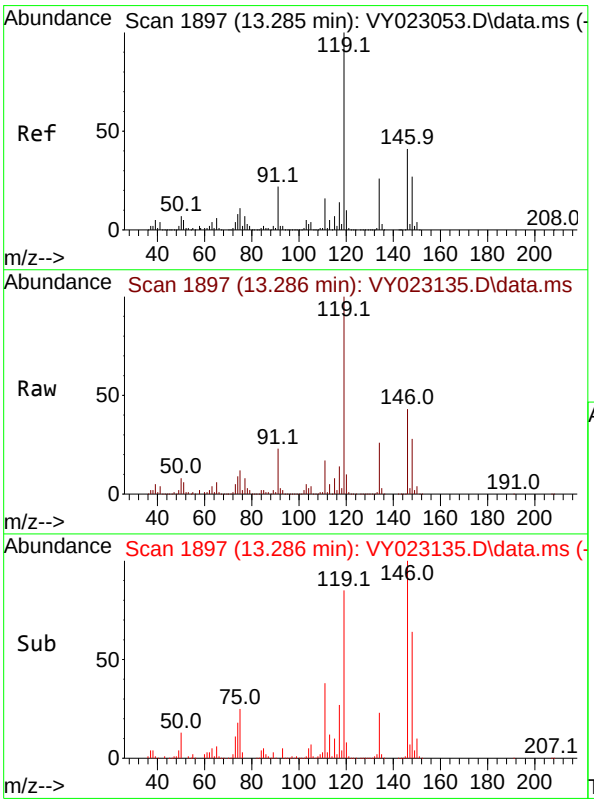
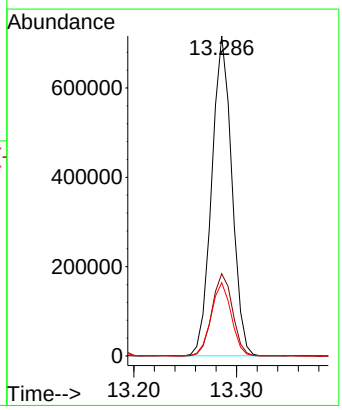
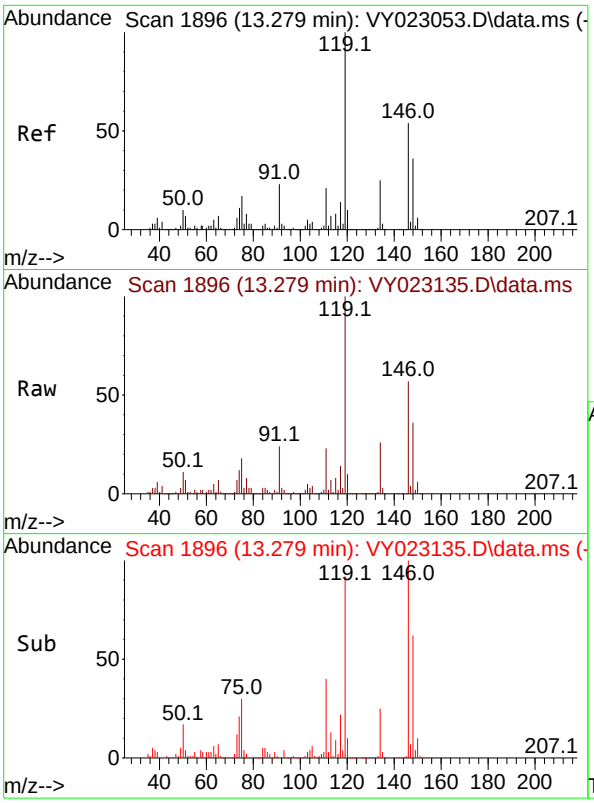


#86
p-Isopropyltoluene
Concen: 47.312 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:119 Resp: 972014

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	22.9	11.3	33.8

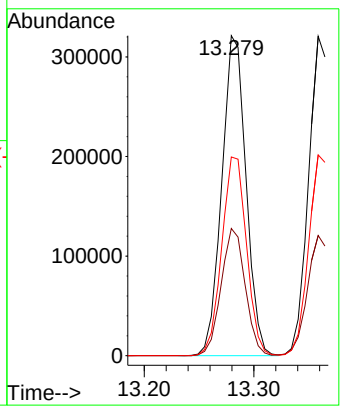




#87
1,3-Dichlorobenzene
Concen: 45.434 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:146 Resp: 49340

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.7
148	63.5	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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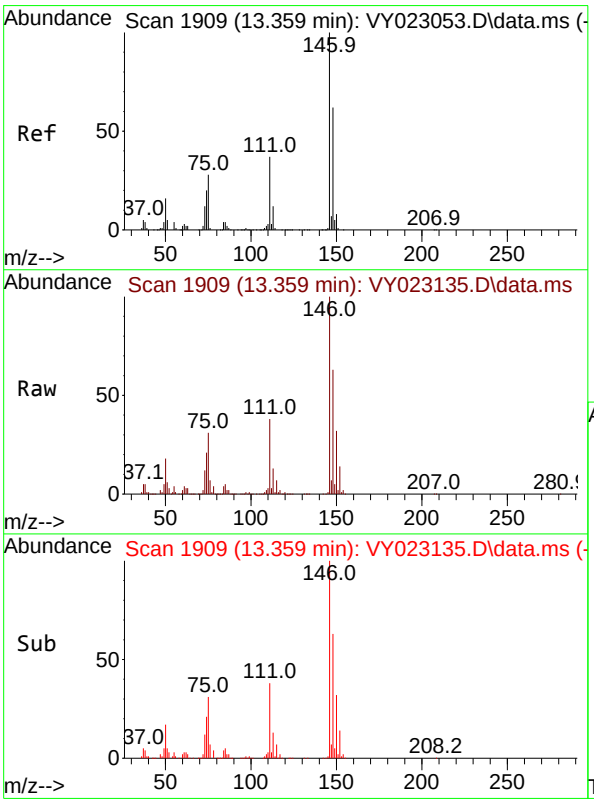
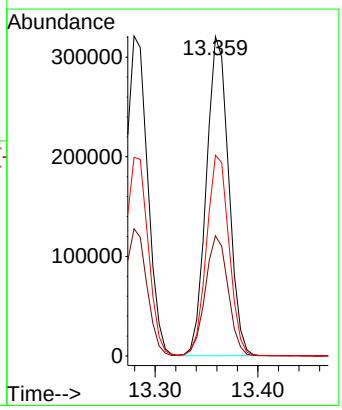
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

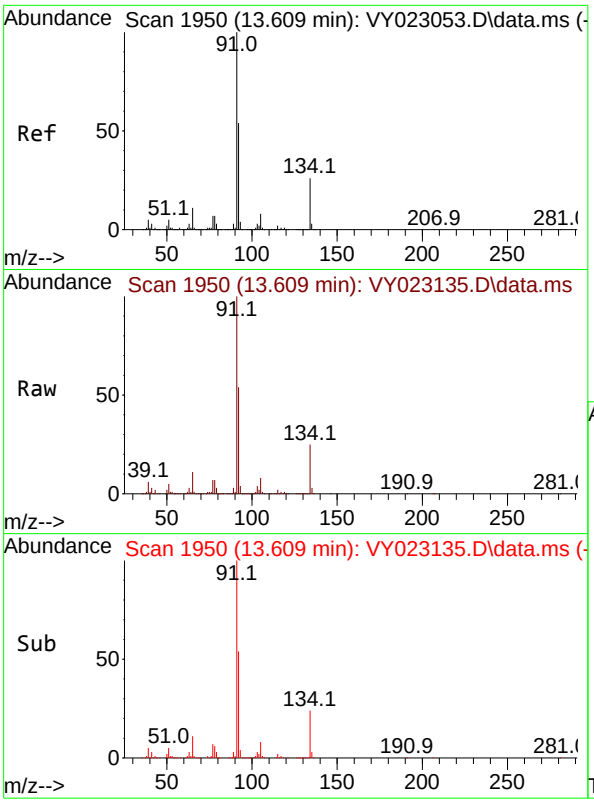


#88
1,4-Dichlorobenzene
Concen: 44.832 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:146 Resp: 482971

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.1
148	63.7	31.6	94.7

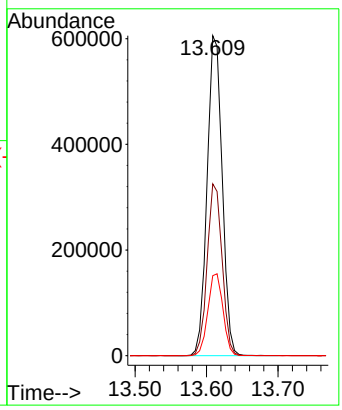




#89
n-Butylbenzene
Concen: 46.994 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 88675

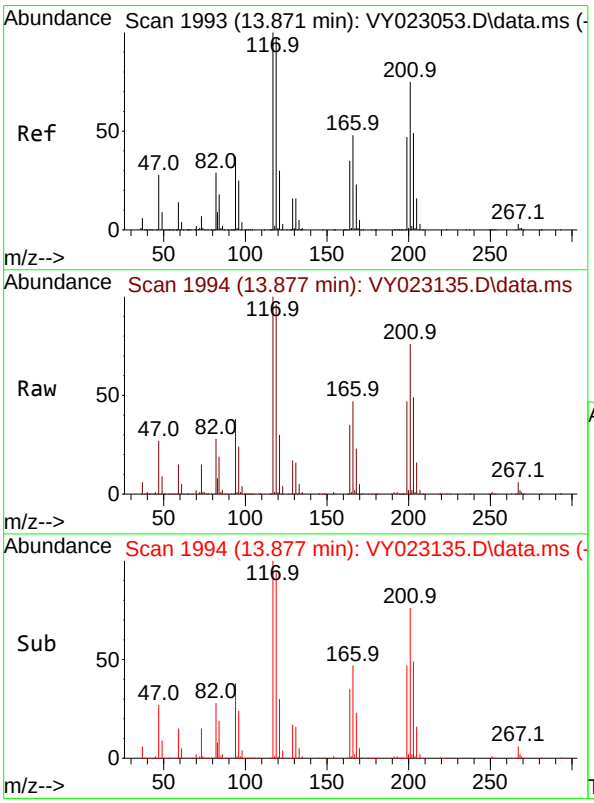
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	25.7	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

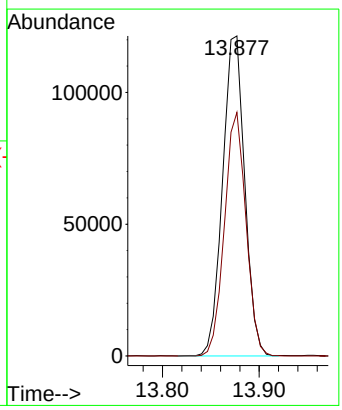
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

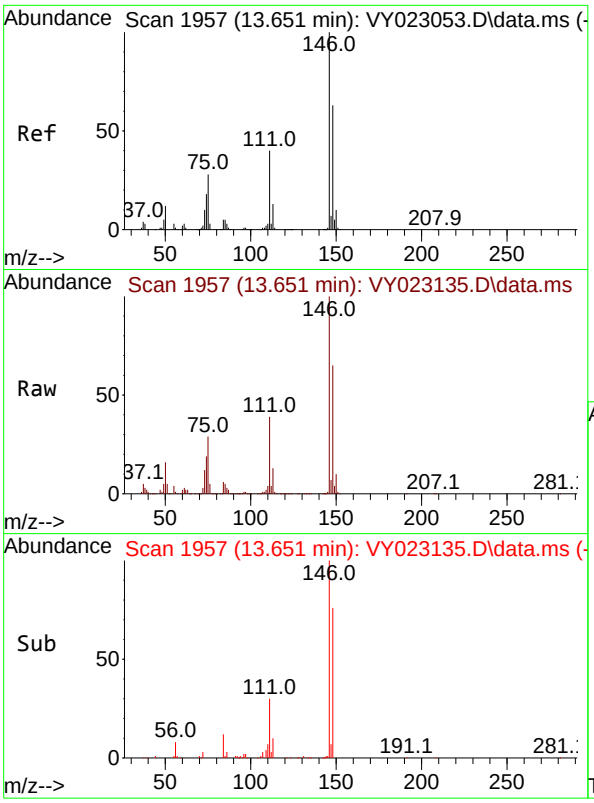


#90
Hexachloroethane
Concen: 45.913 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:117 Resp: 193098

Ion	Ratio	Lower	Upper
117	100		
201	73.9	38.4	115.1

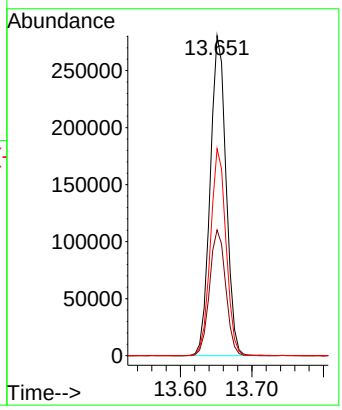




#91
1,2-Dichlorobenzene
Concen: 45.320 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:146 Resp: 43163

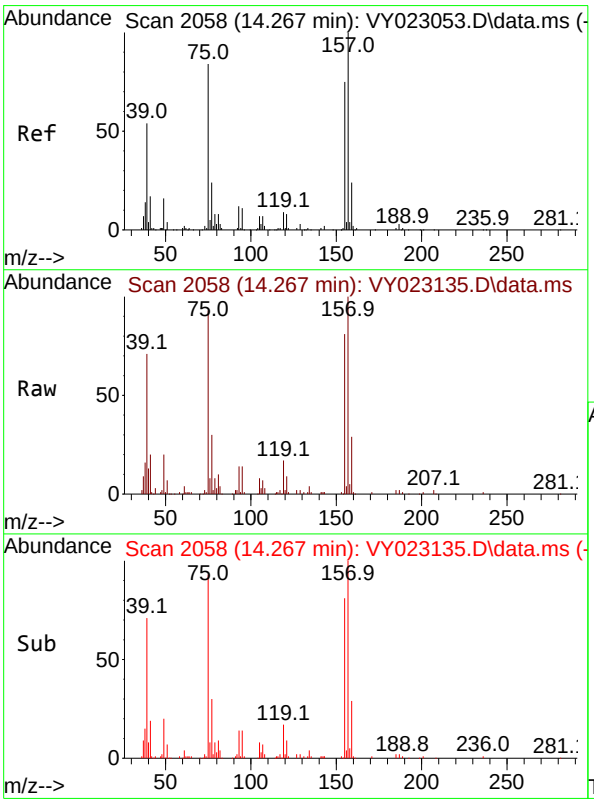
Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.3	60.8
148	63.6	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

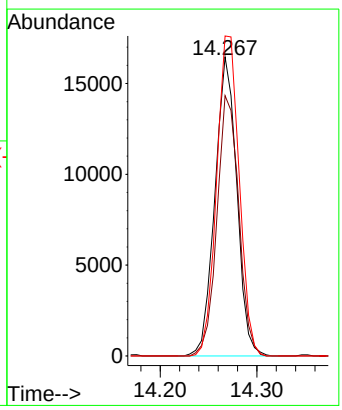
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

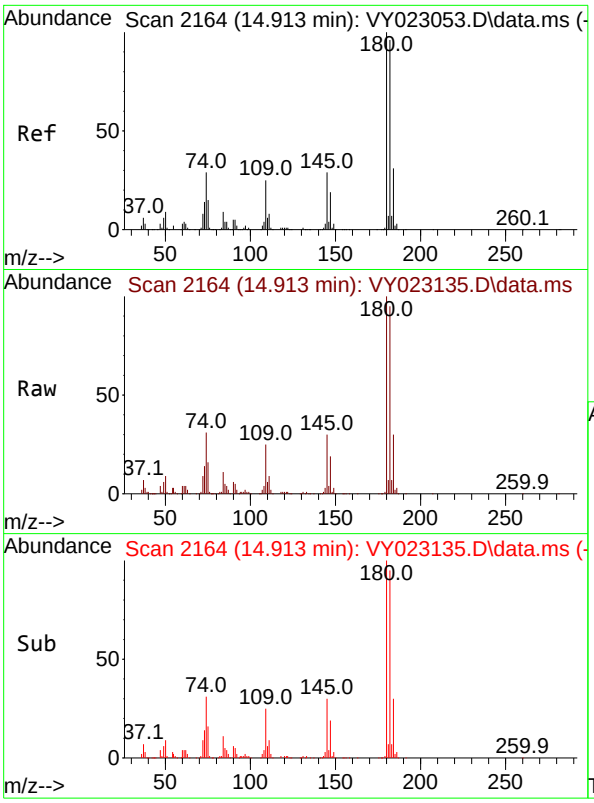


#92
1,2-Dibromo-3-Chloropropane
Concen: 42.044 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 25801

Ion	Ratio	Lower	Upper
75	100		
155	86.8	43.9	131.6
157	110.5	57.2	171.6

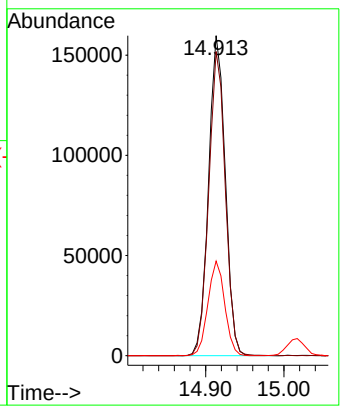




#93
1,2,4-Trichlorobenzene
Concen: 41.942 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:180 Resp: 23622

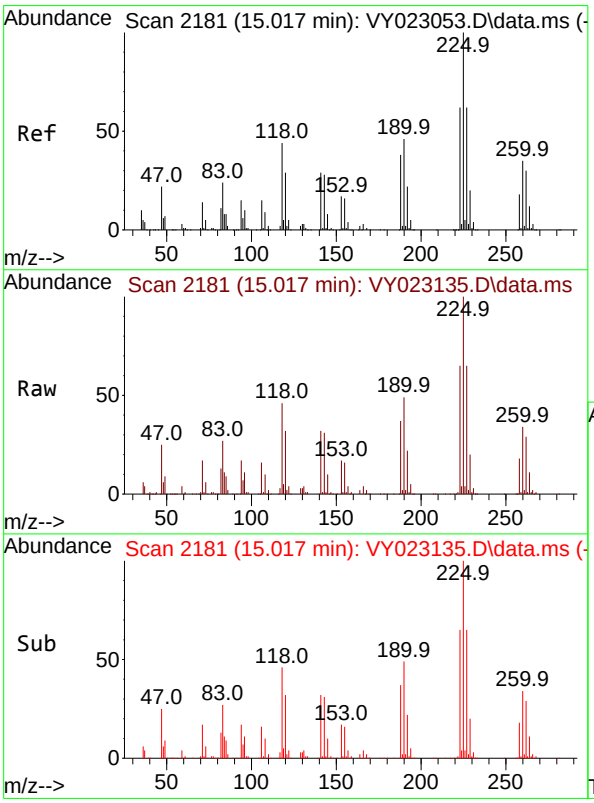
Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

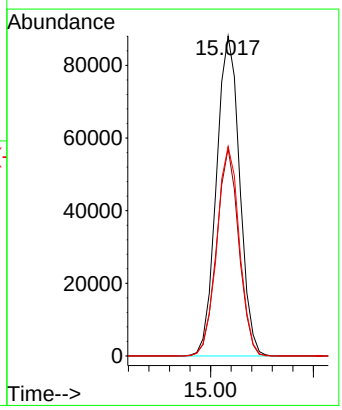
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

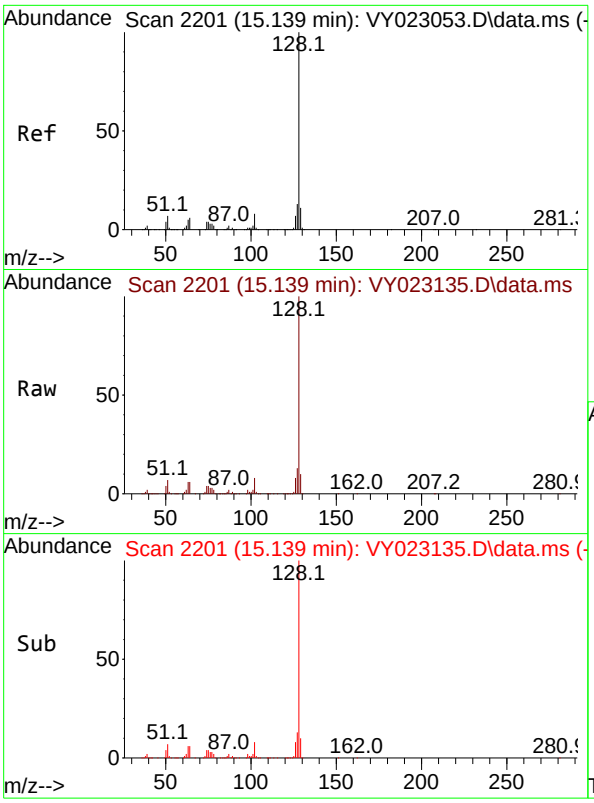


#94
Hexachlorobutadiene
Concen: 41.632 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:225 Resp: 137786

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	63.8	31.5	94.5

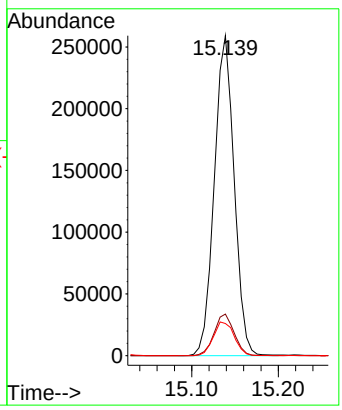




#95
Naphthalene
Concen: 43.007 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:128 Resp: 41303

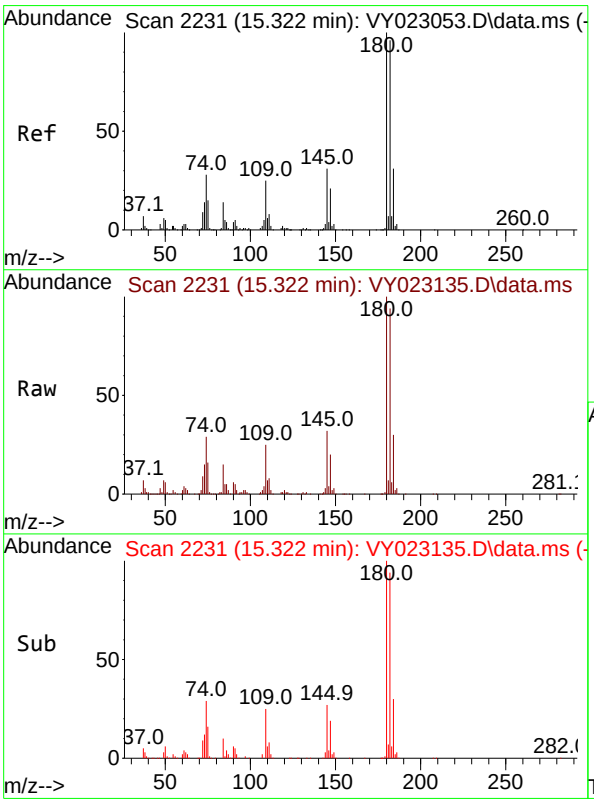
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.2	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

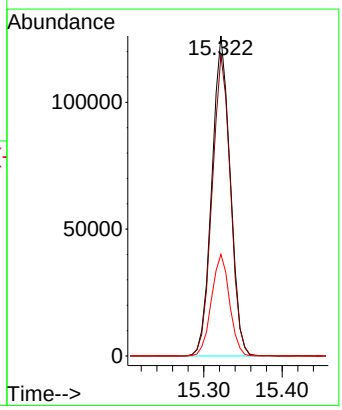
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.272 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:180 Resp: 205156

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.9	143.7
145	31.2	15.9	47.7



Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	80	0.00
2	T	Dichlorodifluoromethane	0.408	0.283	30.6#	65	0.00
3	P	Chloromethane	0.661	0.600	9.2	79	0.00
4	C	Vinyl Chloride	0.817	0.803	1.7#	83	0.00
5	T	Bromomethane	0.610	0.629	-3.1	93	0.00
6	T	Chloroethane	0.543	0.561	-3.3	87	0.00
7	T	Trichlorofluoromethane	0.994	0.921	7.3	78	0.00
8	T	Diethyl Ether	0.263	0.238	9.5	76	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.419	14.5	72	0.00
10	T	Methyl Iodide	0.529	0.520	1.7	76	0.00
11	T	Tert butyl alcohol	0.033	0.027	18.2	68	0.00
12	CM	1,1-Dichloroethene	0.482	0.436	9.5#	75	0.00
13	T	Acrolein	0.048	0.027	43.8#	48#	0.00
14	T	Allyl chloride	0.709	0.639	9.9	74	0.00
15	T	Acrylonitrile	0.107	0.097	9.3	73	0.00
16	T	Acetone	0.103	0.070	32.0#	54	0.00
17	T	Carbon Disulfide	1.571	1.390	11.5	74	0.00
18	T	Methyl Acetate	0.307	0.360	-17.3	89	0.00
19	T	Methyl tert-butyl Ether	1.249	1.158	7.3	75	0.00
20	T	Methylene Chloride	0.620	0.514	17.1	81	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.520	3.9	79	0.00
22	T	Diisopropyl ether	1.541	1.471	4.5	78	0.00
23	T	Vinyl Acetate	0.852	0.712	16.4	67	0.00
24	P	1,1-Dichloroethane	0.942	0.897	4.8	78	0.00
25	T	2-Butanone	0.140	0.112	20.0	63	0.00
26	T	2,2-Dichloropropane	0.813	0.689	15.3	70	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.606	3.2	80	0.00
28	T	Bromochloromethane	0.374	0.371	0.8	81	0.00
29	T	Tetrahydrofuran	0.087	0.077	11.5	70	0.00
30	C	Chloroform	0.971	0.951	2.1#	80	0.00
31	T	Cyclohexane	0.888	0.737	17.0	72	0.00
32	T	1,1,1-Trichloroethane	0.862	0.822	4.6	78	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.487	-2.1	84	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35	S	Dibromofluoromethane	0.299	0.290	3.0	83	0.00
36	T	1,1-Dichloropropene	0.445	0.398	10.6	77	0.00
37	T	Ethyl Acetate	0.187	0.159	15.0	71	0.00
38	T	Carbon Tetrachloride	0.483	0.436	9.7	79	0.00
39	T	Methylcyclohexane	0.586	0.498	15.0	74	0.00
40	TM	Benzene	1.370	1.275	6.9	80	0.00
41	T	Methacrylonitrile	0.108	0.090	16.7	69	0.00
42	TM	1,2-Dichloroethane	0.356	0.326	8.4	79	0.00
43	T	Isopropyl Acetate	0.378	0.328	13.2	74	0.00
44	TM	Trichloroethene	0.354	0.337	4.8	83	0.00
45	C	1,2-Dichloropropane	0.315	0.294	6.7#	80	0.00
46	T	Dibromomethane	0.181	0.166	8.3	78	0.00
47	T	Bromodichloromethane	0.466	0.433	7.1	79	0.00
48	T	Methyl methacrylate	0.181	0.164	9.4	73	0.00

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	76	0.00
50	S	Toluene-d8	1.169	1.163	0.5	85	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.171	12.3	72	0.00
52	CM	Toluene	0.870	0.823	5.4#	80	0.00
53	T	t-1,3-Dichloropropene	0.422	0.382	9.5	76	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.452	9.4	77	0.00
55	T	1,1,2-Trichloroethane	0.242	0.220	9.1	77	0.00
56	T	Ethyl methacrylate	0.310	0.281	9.4	74	0.00
57	T	1,3-Dichloropropane	0.411	0.374	9.0	78	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.145	0.7	79	0.00
59	T	2-Hexanone	0.133	0.112	15.8	69	0.00
60	T	Dibromochloromethane	0.320	0.294	8.1	78	0.00
61	T	1,2-Dibromoethane	0.228	0.206	9.6	77	0.00
62	S	4-Bromofluorobenzene	0.376	0.370	1.6	84	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
64	T	Tetrachloroethene	0.446	0.465	-4.3	91	0.00
65	PM	Chlorobenzene	1.079	1.000	7.3	81	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.343	6.3	81	0.00
67	C	Ethyl Benzene	1.856	1.755	5.4#	80	0.00
68	T	m/p-Xylenes	0.725	0.686	5.4	81	0.00
69	T	o-Xylene	0.679	0.643	5.3	80	0.00
70	T	Styrene	1.110	1.082	2.5	82	0.00
71	P	Bromoform	0.214	0.184	14.0	73	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	3.529	3.263	7.5	81	0.00
74	T	N-amyl acetate	0.748	0.616	17.6	70	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.459	23.9	68	0.00
76	T	1,2,3-Trichloropropane	0.483	0.402	16.8	65	0.00
77	T	Bromobenzene	0.842	0.742	11.9	78	0.00
78	T	n-propylbenzene	4.201	3.915	6.8	80	0.00
79	T	2-Chlorotoluene	2.407	2.228	7.4	81	0.00
80	T	1,3,5-Trimethylbenzene	2.852	2.662	6.7	81	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.158	20.6	69	0.00
82	T	4-Chlorotoluene	2.497	2.307	7.6	81	0.00
83	T	tert-Butylbenzene	2.576	2.379	7.6	80	0.00
84	T	1,2,4-Trimethylbenzene	2.839	2.689	5.3	82	0.00
85	T	sec-Butylbenzene	3.784	3.535	6.6	81	0.00
86	T	p-Isopropyltoluene	3.141	2.972	5.4	81	0.00
87	T	1,3-Dichlorobenzene	1.660	1.509	9.1	81	0.00
88	T	1,4-Dichlorobenzene	1.647	1.477	10.3	80	0.00
89	T	n-Butylbenzene	2.885	2.711	6.0	81	0.00
90	T	Hexachloroethane	0.643	0.590	8.2	81	0.00
91	T	1,2-Dichlorobenzene	1.456	1.320	9.3	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.079	16.0	72	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.722	16.1	74	0.00
94	T	Hexachlorobutadiene	0.506	0.421	16.8	74	0.00
95	T	Naphthalene	1.468	1.263	14.0	73	0.00

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.627	15.5	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	80	0.00
2	T	Dichlorodifluoromethane	50.000	34.628	30.7#	65	0.00
3	P	Chloromethane	50.000	45.346	9.3	79	0.00
4	C	Vinyl Chloride	50.000	49.135	1.7#	83	0.00
5	T	Bromomethane	50.000	51.559	-3.1	93	0.00
6	T	Chloroethane	50.000	51.640	-3.3	87	0.00
7	T	Trichlorofluoromethane	50.000	46.330	7.3	78	0.00
8	T	Diethyl Ether	50.000	45.197	9.6	76	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	42.736	14.5	72	0.00
10	T	Methyl Iodide	50.000	49.178	1.6	76	0.00
11	T	Tert butyl alcohol	250.000	206.701	17.3	68	0.00
12	CM	1,1-Dichloroethene	50.000	45.207	9.6#	75	0.00
13	T	Acrolein	250.000	141.959	43.2#	48	0.00
14	T	Allyl chloride	50.000	45.054	9.9	74	0.00
15	T	Acrylonitrile	250.000	226.140	9.5	73	0.00
16	T	Acetone	250.000	169.235	32.3#	54	0.00
17	T	Carbon Disulfide	50.000	44.225	11.5	74	0.00
18	T	Methyl Acetate	50.000	58.622	-17.2	89	0.00
19	T	Methyl tert-butyl Ether	50.000	46.367	7.3	75	0.00
20	T	Methylene Chloride	50.000	47.835	4.3	81	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.978	4.0	79	0.00
22	T	Diisopropyl ether	50.000	47.734	4.5	78	0.00
23	T	Vinyl Acetate	250.000	208.809	16.5	67	0.00
24	P	1,1-Dichloroethane	50.000	47.608	4.8	78	0.00
25	T	2-Butanone	250.000	200.293	19.9	63	0.00
26	T	2,2-Dichloropropane	50.000	42.412	15.2	70	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.425	3.2	80	0.00
28	T	Bromochloromethane	50.000	49.690	0.6	81	0.00
29	T	Tetrahydrofuran	250.000	220.064	12.0	70	0.00
30	C	Chloroform	50.000	48.951	2.1#	80	0.00
31	T	Cyclohexane	50.000	41.505	17.0	72	0.00
32	T	1,1,1-Trichloroethane	50.000	47.657	4.7	78	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.127	-2.3	84	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35	S	Dibromofluoromethane	50.000	48.501	3.0	83	0.00
36	T	1,1-Dichloropropene	50.000	44.762	10.5	77	0.00
37	T	Ethyl Acetate	50.000	42.450	15.1	71	0.00
38	T	Carbon Tetrachloride	50.000	45.177	9.6	79	0.00
39	T	Methylcyclohexane	50.000	42.522	15.0	74	0.00
40	TM	Benzene	50.000	46.514	7.0	80	0.00
41	T	Methacrylonitrile	50.000	41.916	16.2	69	0.00
42	TM	1,2-Dichloroethane	50.000	45.709	8.6	79	0.00
43	T	Isopropyl Acetate	50.000	43.470	13.1	74	0.00
44	TM	Trichloroethene	50.000	47.535	4.9	83	0.00
45	C	1,2-Dichloropropane	50.000	46.657	6.7#	80	0.00
46	T	Dibromomethane	50.000	45.999	8.0	78	0.00
47	T	Bromodichloromethane	50.000	46.439	7.1	79	0.00
48	T	Methyl methacrylate	50.000	45.295	9.4	73	0.00

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	902.014	9.8	76	0.00
50	S	Toluene-d8	50.000	49.738	0.5	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	219.870	12.1	72	0.00
52	CM	Toluene	50.000	47.285	5.4#	80	0.00
53	T	t-1,3-Dichloropropene	50.000	45.264	9.5	76	0.00
54	T	cis-1,3-Dichloropropene	50.000	45.347	9.3	77	0.00
55	T	1,1,2-Trichloroethane	50.000	45.358	9.3	77	0.00
56	T	Ethyl methacrylate	50.000	45.302	9.4	74	0.00
57	T	1,3-Dichloropropane	50.000	45.582	8.8	78	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	247.890	0.8	79	0.00
59	T	2-Hexanone	250.000	211.536	15.4	69	0.00
60	T	Dibromochloromethane	50.000	46.058	7.9	78	0.00
61	T	1,2-Dibromoethane	50.000	45.352	9.3	77	0.00
62	S	4-Bromofluorobenzene	50.000	49.275	1.5	84	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	85	0.00
64	T	Tetrachloroethene	50.000	52.075	-4.2	91	0.00
65	PM	Chlorobenzene	50.000	46.339	7.3	81	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.876	6.2	81	0.00
67	C	Ethyl Benzene	50.000	47.266	5.5#	80	0.00
68	T	m/p-Xylenes	100.000	94.610	5.4	81	0.00
69	T	o-Xylene	50.000	47.384	5.2	80	0.00
70	T	Styrene	50.000	48.738	2.5	82	0.00
71	P	Bromoform	50.000	42.892	14.2	73	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73	T	Isopropylbenzene	50.000	46.232	7.5	81	0.00
74	T	N-amyl acetate	50.000	41.170	17.7	70	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	38.093	23.8	68	0.00
76	T	1,2,3-Trichloropropane	50.000	41.694	16.6	65	0.00
77	T	Bromobenzene	50.000	44.080	11.8	78	0.00
78	T	n-propylbenzene	50.000	46.593	6.8	80	0.00
79	T	2-Chlorotoluene	50.000	46.284	7.4	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.663	6.7	81	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	39.640	20.7	69	0.00
82	T	4-Chlorotoluene	50.000	46.196	7.6	81	0.00
83	T	tert-Butylbenzene	50.000	46.181	7.6	80	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.349	5.3	82	0.00
85	T	sec-Butylbenzene	50.000	46.712	6.6	81	0.00
86	T	p-Isopropyltoluene	50.000	47.312	5.4	81	0.00
87	T	1,3-Dichlorobenzene	50.000	45.434	9.1	81	0.00
88	T	1,4-Dichlorobenzene	50.000	44.832	10.3	80	0.00
89	T	n-Butylbenzene	50.000	46.994	6.0	81	0.00
90	T	Hexachloroethane	50.000	45.913	8.2	81	0.00
91	T	1,2-Dichlorobenzene	50.000	45.320	9.4	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	42.044	15.9	72	0.00
93	T	1,2,4-Trichlorobenzene	50.000	41.942	16.1	74	0.00
94	T	Hexachlorobutadiene	50.000	41.632	16.7	74	0.00
95	T	Naphthalene	50.000	43.007	14.0	73	0.00

Sample Results: **VY023135.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	42.272	15.5	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023137.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/19/2025 09:11
Lab File ID: VY023137.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.339		-16.91	20
Chloromethane	0.661	0.565	0.1	-14.52	20
Vinyl Chloride	0.817	0.743		-9.06	20
Bromomethane	0.610	0.580		-4.92	20
Chloroethane	0.543	0.507		-6.63	20
Trichlorofluoromethane	0.994	0.908		-8.65	20
1,1,2-Trichlorotrifluoroethane	0.490	0.476		-2.86	20
1,1-Dichloroethene	0.482	0.477		-1.04	20
Acetone	0.103	0.113		9.71	20
Carbon Disulfide	1.571	1.449		-7.77	20
Methyl tert-butyl Ether	1.249	1.212		-2.96	20
Methyl Acetate	0.307	0.263		-14.33	20
Methylene Chloride	0.620	0.513		-17.26	20
trans-1,2-Dichloroethene	0.541	0.535		-1.11	20
1,1-Dichloroethane	0.942	0.908	0.1	-3.61	20
Cyclohexane	0.888	0.821		-7.55	20
2-Butanone	0.140	0.137		-2.14	20
Carbon Tetrachloride	0.483	0.498		3.11	20
cis-1,2-Dichloroethene	0.626	0.626		0	20
Bromochloromethane	0.374	0.333		-10.96	20
Chloroform	0.971	0.958		-1.34	20
1,1,1-Trichloroethane	0.862	0.864		0.23	20
Methylcyclohexane	0.586	0.607		3.58	20
Benzene	1.370	1.381		0.8	20
1,2-Dichloroethane	0.356	0.342		-3.93	20
Trichloroethene	0.354	0.365		3.11	20
1,2-Dichloropropane	0.315	0.316		0.32	20
Bromodichloromethane	0.466	0.464		-0.43	20
4-Methyl-2-Pentanone	0.195	0.188		-3.59	20
Toluene	0.870	0.899		3.33	20
t-1,3-Dichloropropene	0.422	0.431		2.13	20
cis-1,3-Dichloropropene	0.499	0.504		1	20
1,1,2-Trichloroethane	0.242	0.243		0.41	20
2-Hexanone	0.133	0.135		1.5	20
Dibromochloromethane	0.320	0.326		1.88	20
1,2-Dibromoethane	0.228	0.229		0.44	20
Tetrachloroethene	0.446	0.450		0.9	20
Chlorobenzene	1.079	1.127	0.3	4.45	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023137.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/19/2025 09:11
Lab File ID: VY023137.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	1.962		5.71	20
m/p-Xylenes	0.725	0.779		7.45	20
o-Xylene	0.679	0.732		7.81	20
Styrene	1.110	1.221		10	20
Bromoform	0.214	0.218	0.1	1.87	20
Isopropylbenzene	3.529	3.707		5.04	20
1,1,2,2-Tetrachloroethane	0.603	0.586	0.3	-2.82	20
1,3-Dichlorobenzene	1.660	1.734		4.46	20
1,4-Dichlorobenzene	1.647	1.689		2.55	20
1,2-Dichlorobenzene	1.456	1.499		2.95	20
1,2-Dibromo-3-Chloropropane	0.094	0.088		-6.38	20
1,2,4-Trichlorobenzene	0.861	0.881		2.32	20
1,2,3-Trichlorobenzene	0.742	0.735		-0.94	20
1,2-Dichloroethane-d4	0.477	0.431		-9.64	20
Dibromofluoromethane	0.299	0.292		-2.34	20
Toluene-d8	1.169	1.150		-1.63	20
4-Bromofluorobenzene	0.376	0.373		-0.8	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	560294	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	876189	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	761785	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	392533	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	241668	45.256	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.520%			
35) Dibromofluoromethane	7.634	113	256133	48.854	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.700%			
50) Toluene-d8	10.109	98	1008048	49.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.440%			
62) 4-Bromofluorobenzene	12.401	95	326827	49.618	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	190057	41.557	ug/l	98
3) Chloromethane	2.074	50	316334	42.705	ug/l	99
4) Vinyl Chloride	2.208	62	416548	45.491	ug/l	100
5) Bromomethane	2.598	94	324698	47.481	ug/l	99
6) Chloroethane	2.739	64	284191	46.683	ug/l	100
7) Trichlorofluoromethane	3.056	101	508922	45.708	ug/l	100
8) Diethyl Ether	3.458	74	135802	46.102	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	266790	48.569	ug/l	99
10) Methyl Iodide	4.007	142	325506	54.916	ug/l	98
11) Tert butyl alcohol	4.866	59	79834	218.191	ug/l	99
12) 1,1-Dichloroethene	3.793	96	267212	49.491	ug/l	90
13) Acrolein	3.653	56	60662	113.207	ug/l	93
14) Allyl chloride	4.385	41	361978	45.563	ug/l	96
15) Acrylonitrile	5.061	53	279904	233.725	ug/l	99
16) Acetone	3.866	43	316768	273.812	ug/l	99
17) Carbon Disulfide	4.110	76	811887	46.117	ug/l	100
18) Methyl Acetate	4.385	43	147420	42.821	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	679197	48.545	ug/l	99
20) Methylene Chloride	4.616	84	287656	47.727	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	299764	49.404	ug/l	96
22) Diisopropyl ether	6.025	45	825090	47.793	ug/l	99
23) Vinyl Acetate	5.964	43	2298296	240.761	ug/l	100
24) 1,1-Dichloroethane	5.921	63	508733	48.199	ug/l	99
25) 2-Butanone	6.896	43	384462	244.351	ug/l	97
26) 2,2-Dichloropropane	6.890	77	468257	51.414	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	351019	50.042	ug/l	98
28) Bromochloromethane	7.244	49	186381	44.509	ug/l	95
29) Tetrahydrofuran	7.262	42	221133	226.737	ug/l	96
30) Chloroform	7.421	83	536519	49.287	ug/l	95
31) Cyclohexane	7.701	56	460210	46.269	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	483961	50.106	ug/l	100
36) 1,1-Dichloropropene	7.835	75	395952	50.818	ug/l	99
37) Ethyl Acetate	6.988	43	157126	48.006	ug/l	99
38) Carbon Tetrachloride	7.817	117	436510	51.581	ug/l	99
39) Methylcyclohexane	9.109	83	531826	51.832	ug/l	97
40) Benzene	8.079	78	1210380	50.401	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	88337m	46.765	ug/l		
42) 1,2-Dichloroethane	8.158	62	300070	48.044	ug/l		100
43) Isopropyl Acetate	8.201	43	308955	46.703	ug/l	#	84
44) Trichloroethene	8.866	130	319381	51.463	ug/l		100
45) 1,2-Dichloropropane	9.146	63	276520	50.044	ug/l		97
46) Dibromomethane	9.231	93	157422	49.637	ug/l		99
47) Bromodichloromethane	9.426	83	406246	49.781	ug/l		97
48) Methyl methacrylate	9.219	41	152020	48.023	ug/l		97
49) 1,4-Dioxane	9.231	88	34759	934.713	ug/l		97
51) 4-Methyl-2-Pentanone	9.999	43	822061	240.906	ug/l		98
52) Toluene	10.170	92	788070	51.669	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	377708	51.112	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	441435	50.516	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	213063	50.206	ug/l		97
56) Ethyl methacrylate	10.438	69	276182	50.859	ug/l		99
57) 1,3-Dichloropropane	10.719	76	354628	49.273	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	622022	242.835	ug/l		97
59) 2-Hexanone	10.762	43	592202	254.865	ug/l		98
60) Dibromochloromethane	10.914	129	285374	50.963	ug/l		99
61) 1,2-Dibromoethane	11.018	107	201073	50.411	ug/l		100
64) Tetrachloroethene	10.646	164	342427	50.340	ug/l		98
65) Chlorobenzene	11.444	112	858367	52.238	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	295011	52.900	ug/l		99
67) Ethyl Benzene	11.517	91	1494465	52.850	ug/l		99
68) m/p-Xylenes	11.627	106	1186104	107.397	ug/l		98
69) o-Xylene	11.956	106	557951	53.940	ug/l		100
70) Styrene	11.969	104	930498	55.007	ug/l		98
71) Bromoform	12.133	173	166298	51.022	ug/l		99
73) Isopropylbenzene	12.255	105	1455261	52.528	ug/l		99
74) N-amyl acetate	12.072	43	285441	48.584	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	230085	48.639	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	165292m	43.632	ug/l		
77) Bromobenzene	12.529	156	336874	50.968	ug/l		97
78) n-propylbenzene	12.597	91	1741756	52.806	ug/l		99
79) 2-Chlorotoluene	12.676	91	975057	51.594	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1191826	53.229	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	77577	49.570	ug/l		98
82) 4-Chlorotoluene	12.773	91	1000547	51.036	ug/l		99
83) tert-Butylbenzene	12.993	119	1091125	53.956	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	1191535	53.459	ug/l		100
85) sec-Butylbenzene	13.176	105	1594423	53.673	ug/l		100
86) p-Isopropyltoluene	13.292	119	1357746	55.063	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	680781	52.231	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	663039	51.281	ug/l		99
89) n-Butylbenzene	13.615	91	1231645	54.384	ug/l		99
90) Hexachloroethane	13.877	117	264268	52.354	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	588570	51.489	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	34676	47.081	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	345818	51.158	ug/l		99
94) Hexachlorobutadiene	15.023	225	202124	50.885	ug/l		99
95) Naphthalene	15.145	128	590257	51.208	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	288433	49.517	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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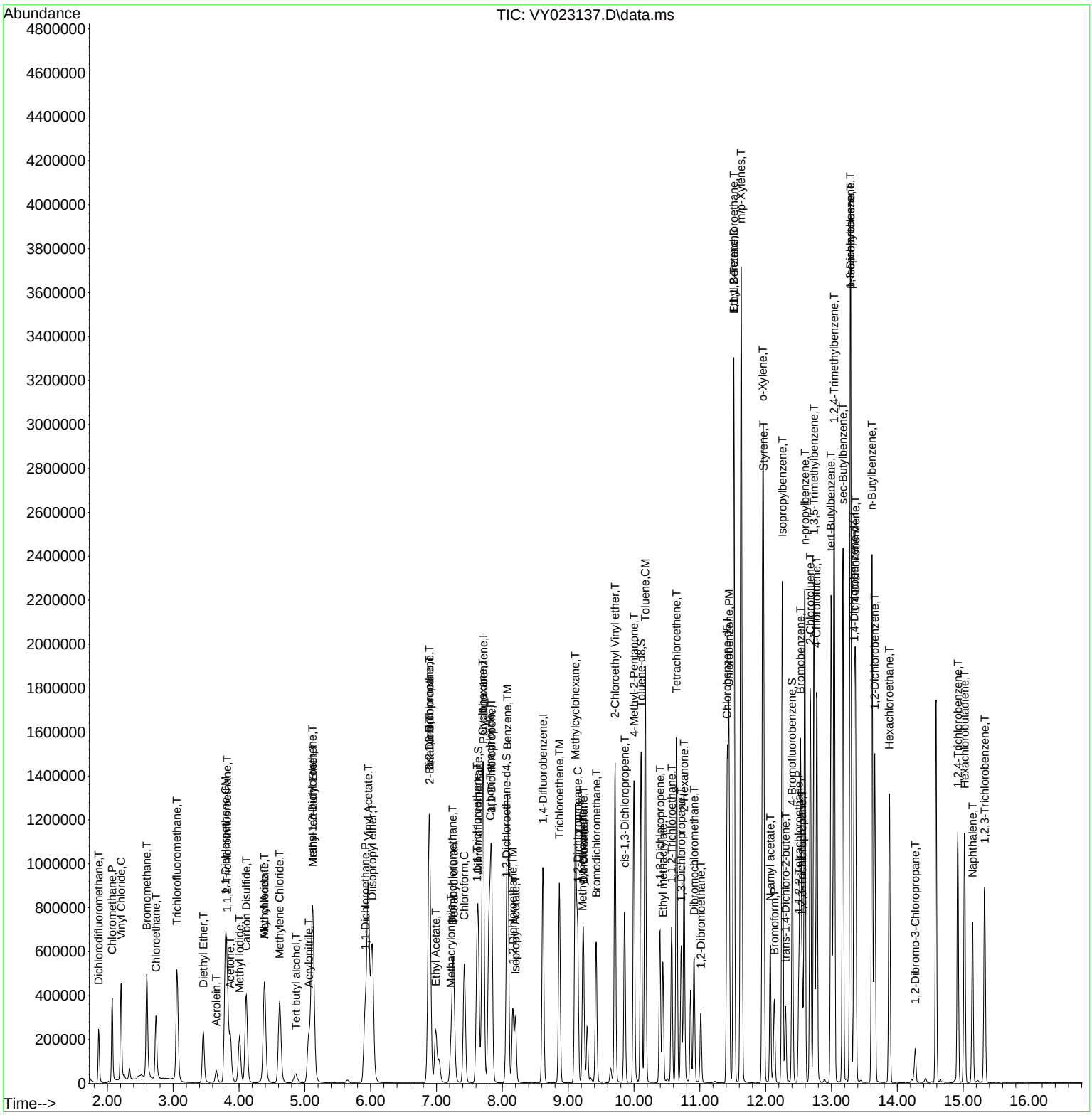
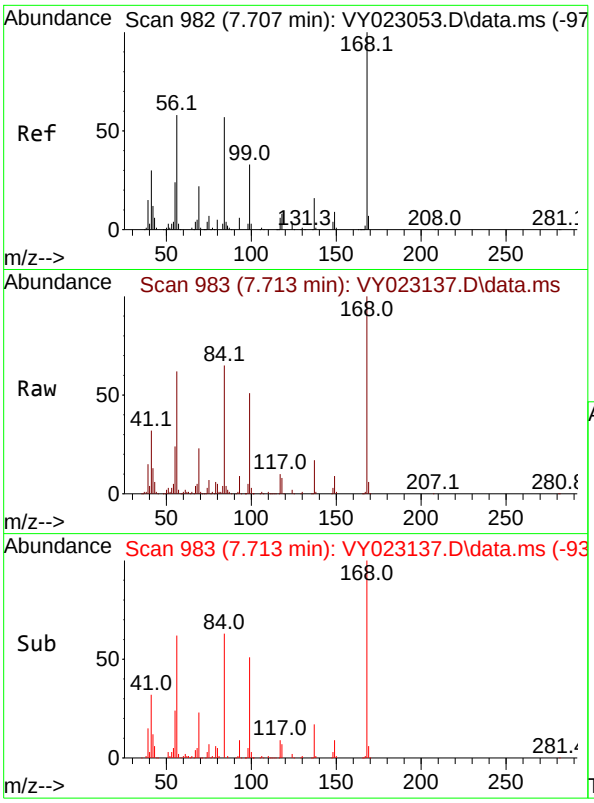
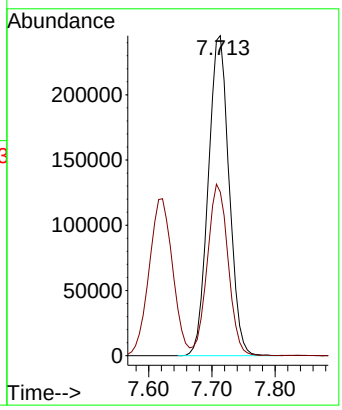




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:168 Resp: 56029

Ion	Ratio	Lower	Upper
168	100		
99	51.1	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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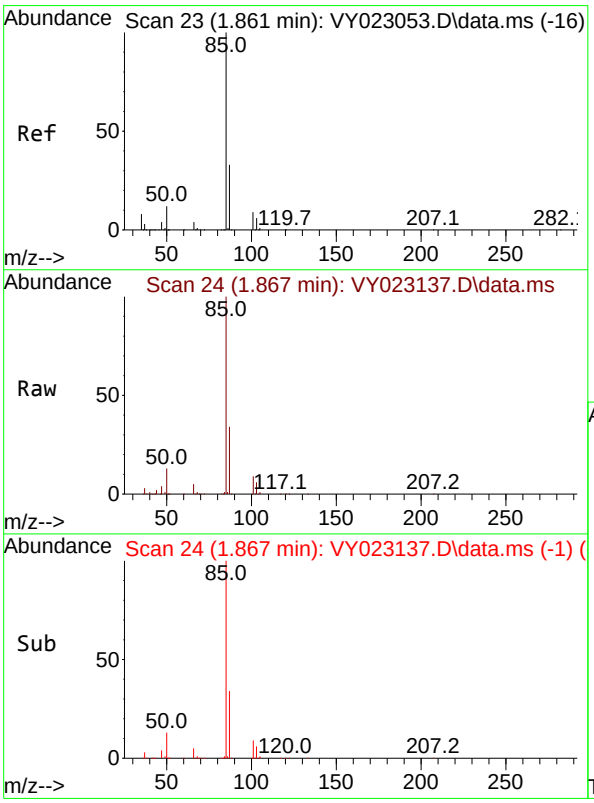
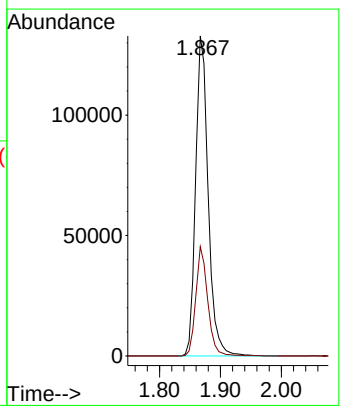
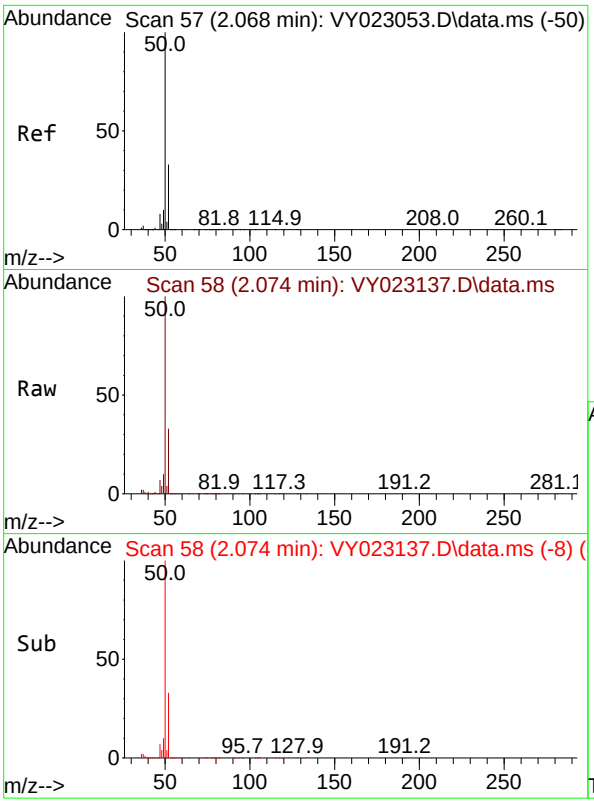


#2
Dichlorodifluoromethane
Concen: 41.557 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 85 Resp: 190057

Ion	Ratio	Lower	Upper
85	100		
87	34.2	16.6	49.8

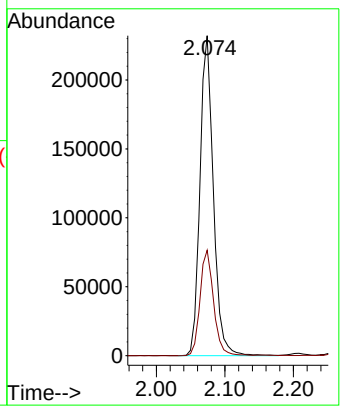




#3
Chloromethane
Concen: 42.705 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 50 Resp: 31633

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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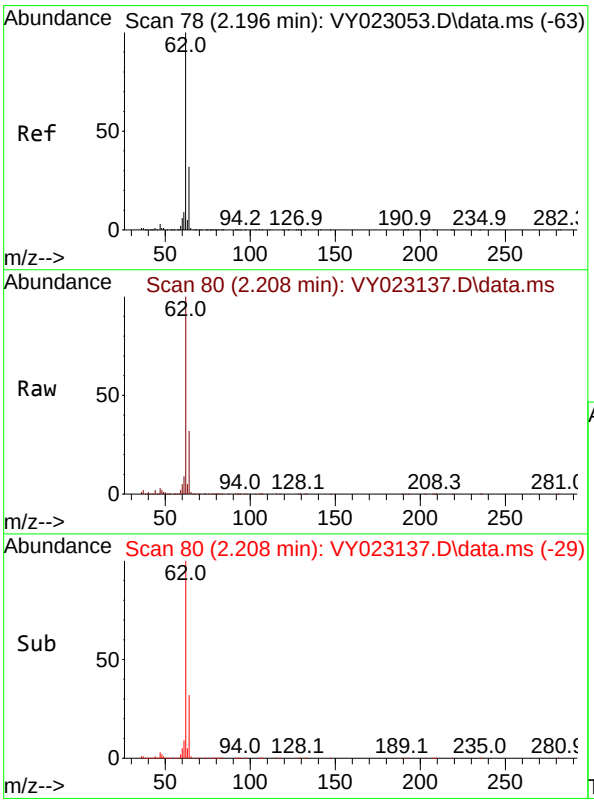
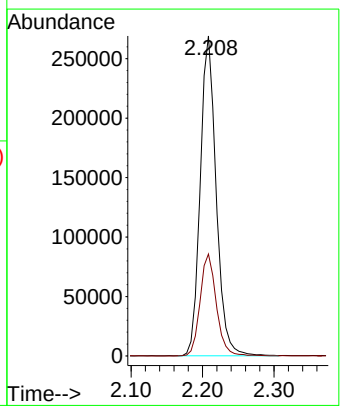
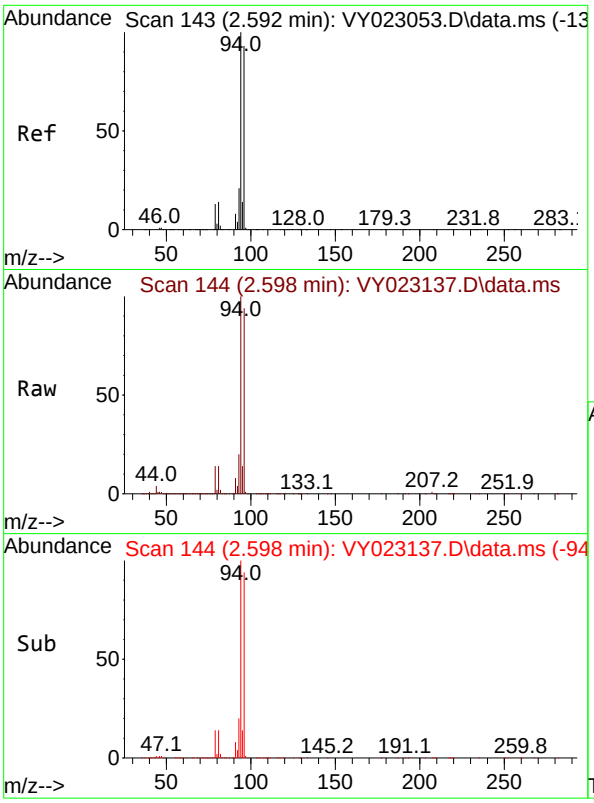


#4
Vinyl Chloride
Concen: 45.491 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 416548

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0

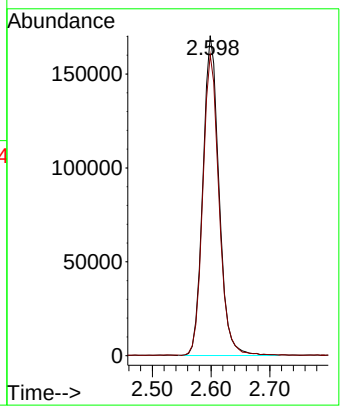




#5
Bromomethane
Concen: 47.481 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 94 Resp: 32469

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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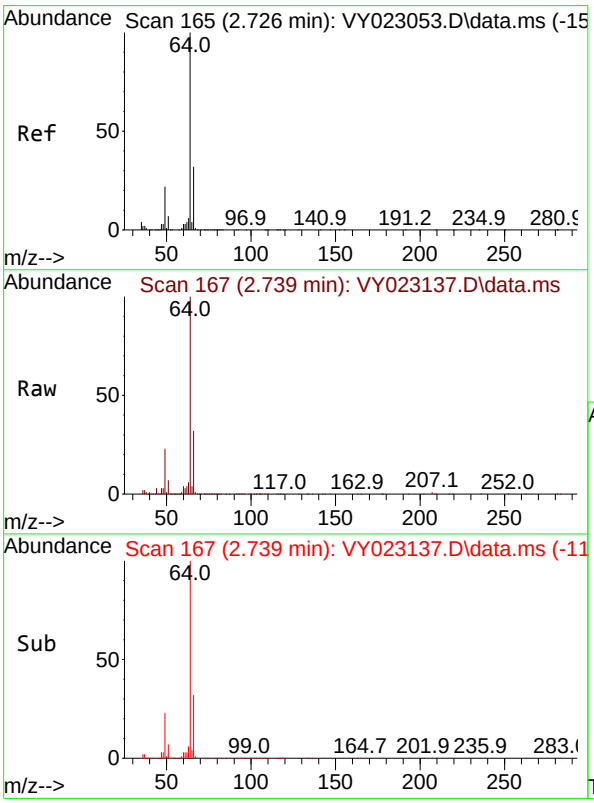
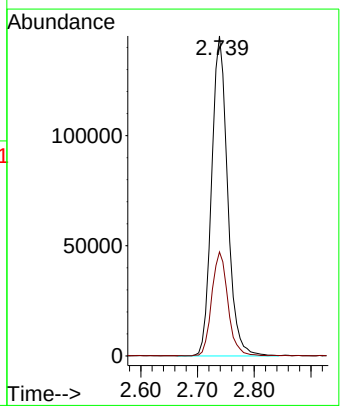
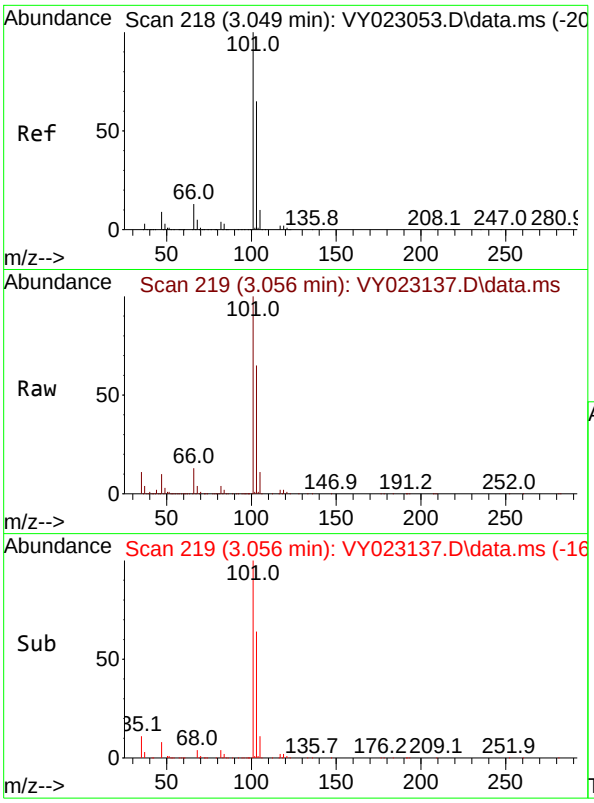


#6
Chloroethane
Concen: 46.683 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 64 Resp: 284191

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.6





#7
Trichlorofluoromethane
Concen: 45.708 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:101 Resp: 50892

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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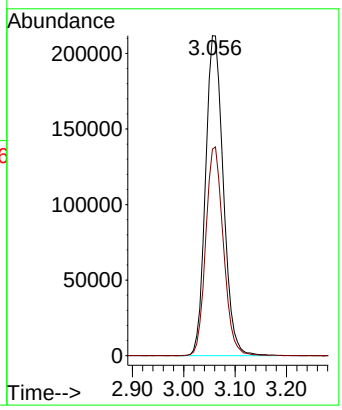
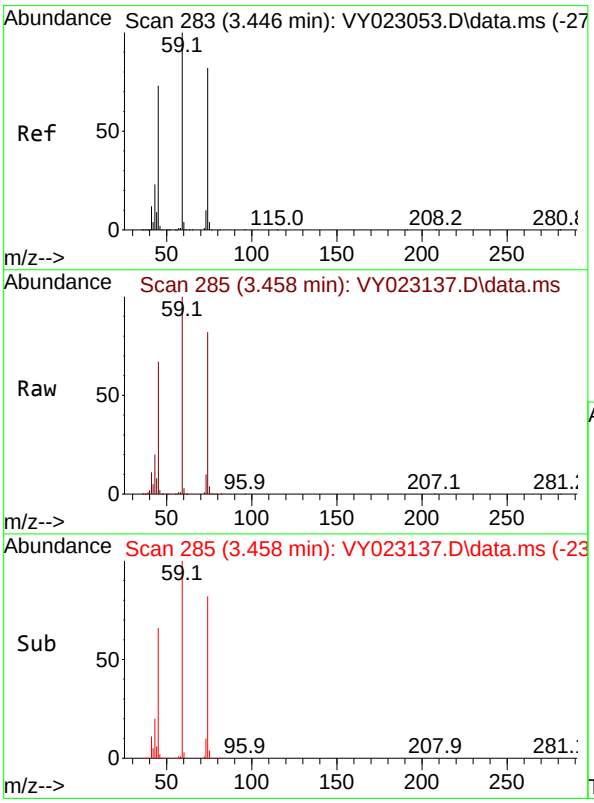
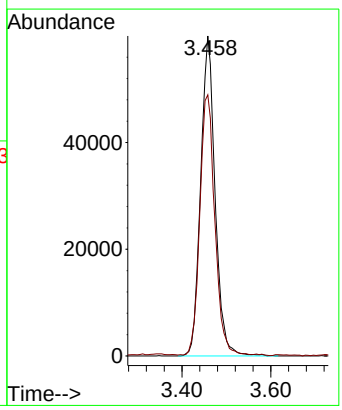


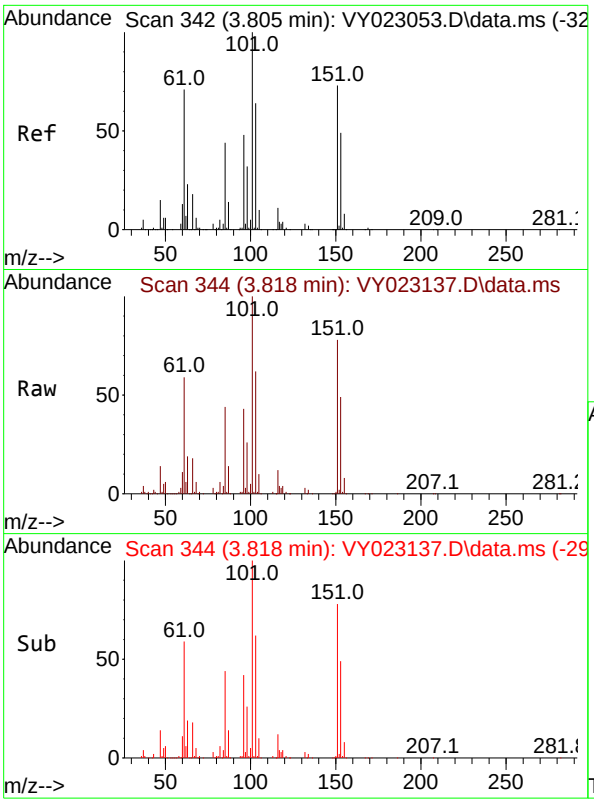


#8
Diethyl Ether
Concen: 46.102 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 74 Resp: 135802

Ion	Ratio	Lower	Upper
74	100		
45	84.4	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.569 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:101 Resp: 26679

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.3	54.5
151	78.8	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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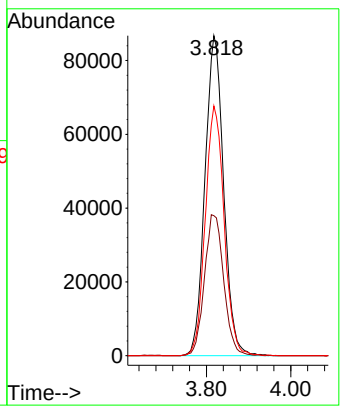
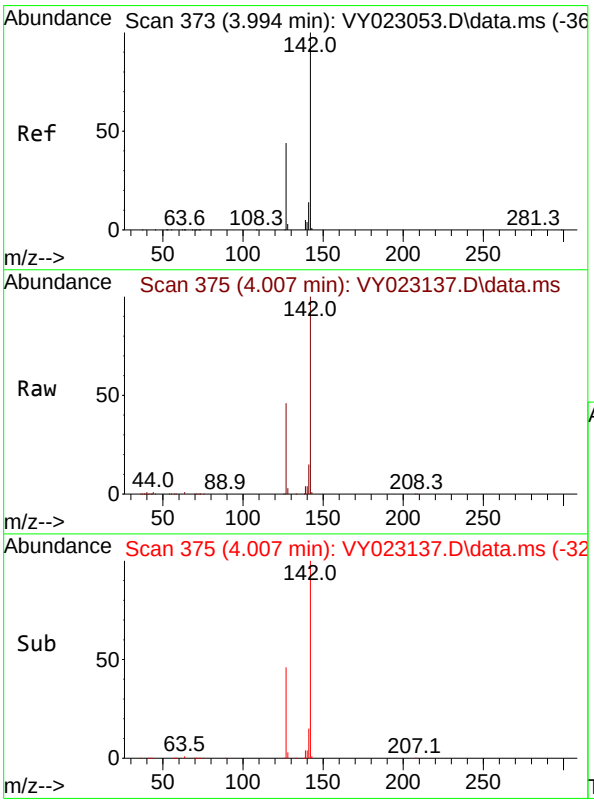
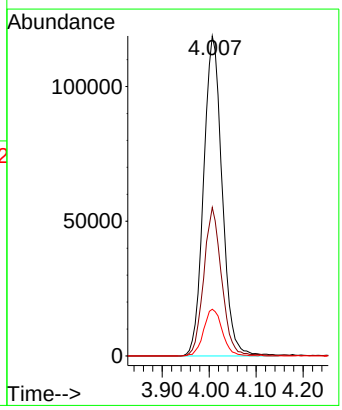


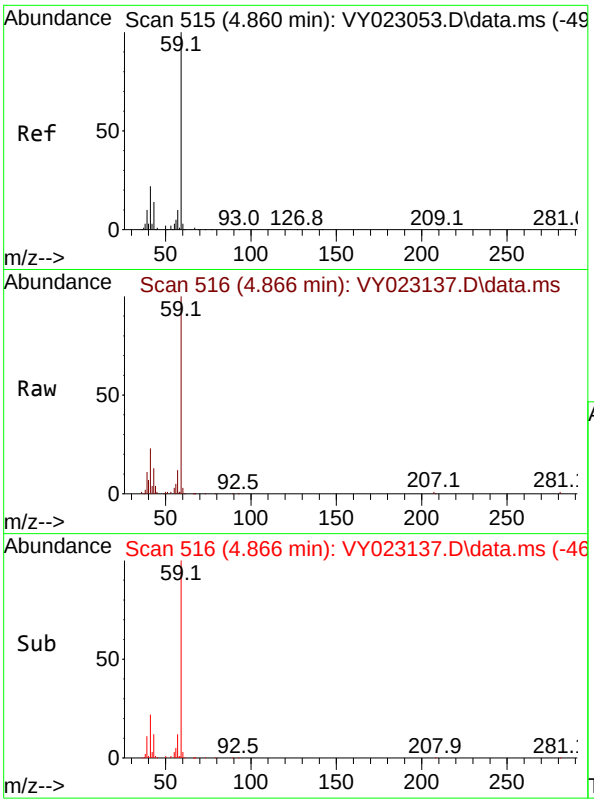


#10
Methyl Iodide
Concen: 54.916 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:142 Resp: 325506

Ion	Ratio	Lower	Upper
142	100		
127	44.6	34.9	52.3
141	14.7	11.3	16.9

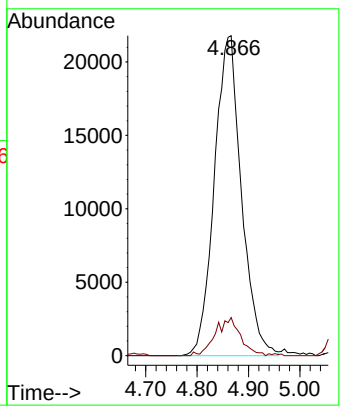




#11
Tert butyl alcohol
Concen: 218.191 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 59 Resp: 7983

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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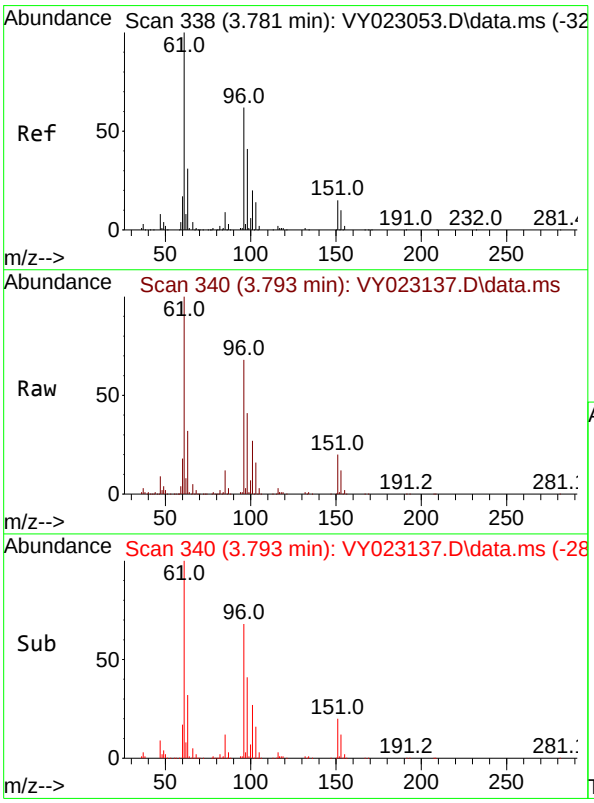
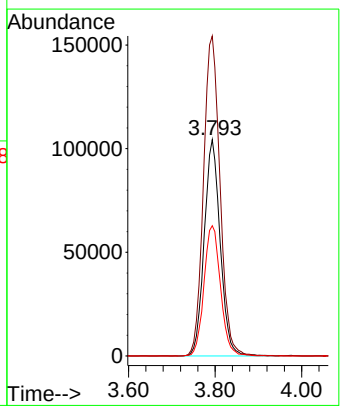
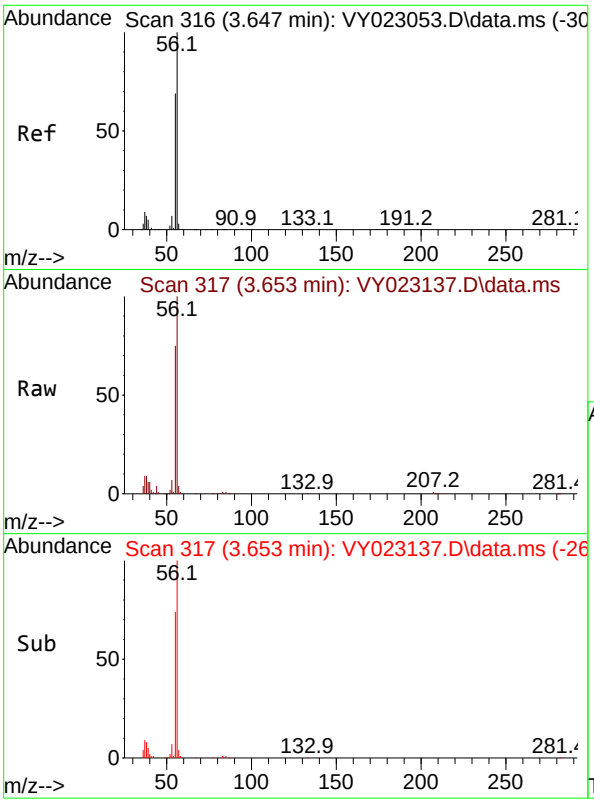


#12
1,1-Dichloroethene
Concen: 49.491 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 267212

Ion	Ratio	Lower	Upper
96	100		
61	148.0	129.4	194.2
98	60.2	52.8	79.2

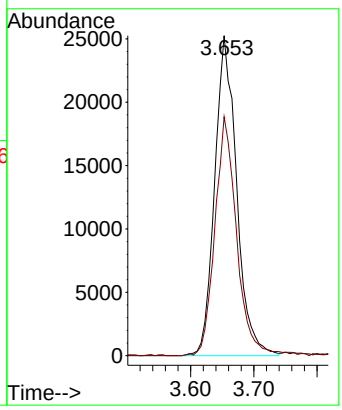




#13
Acrolein
Concen: 113.207 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 56 Resp: 6066

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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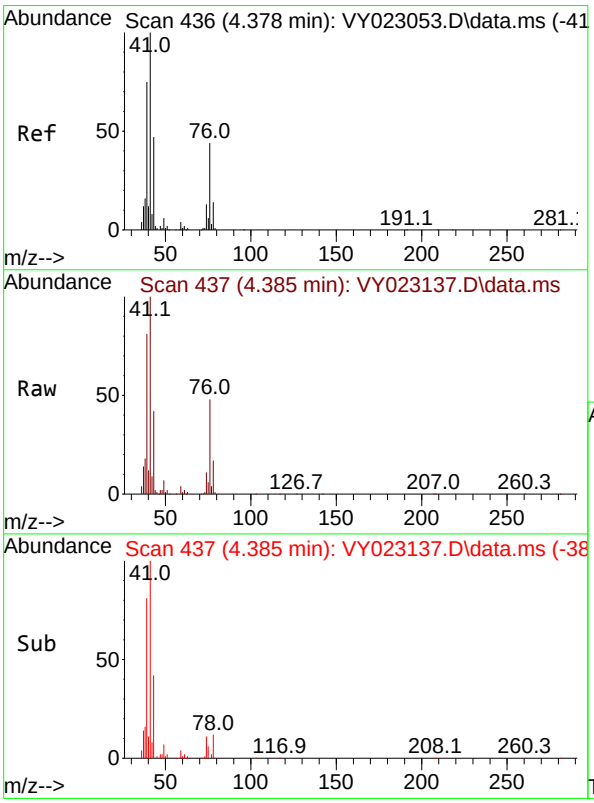
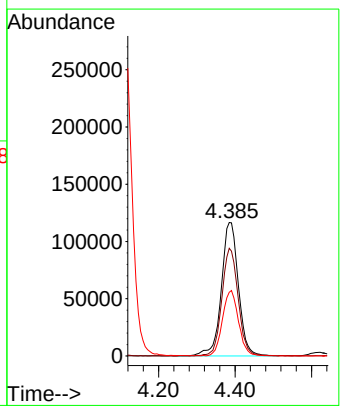
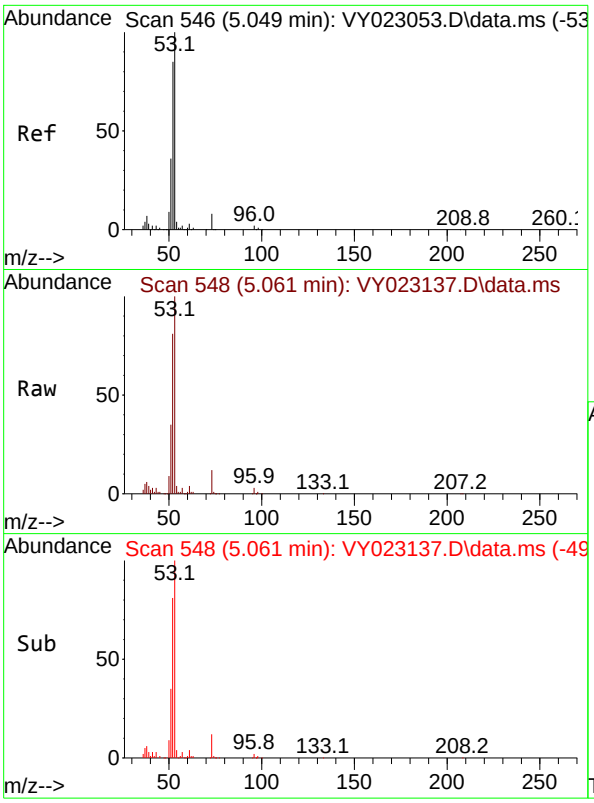


#14
Allyl chloride
Concen: 45.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 361978

Ion	Ratio	Lower	Upper
41	100		
39	76.6	59.8	89.6
76	46.0	33.7	50.5





#15
Acrylonitrile
Concen: 233.725 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 53 Resp: 279904

Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.3	97.9
51	36.9	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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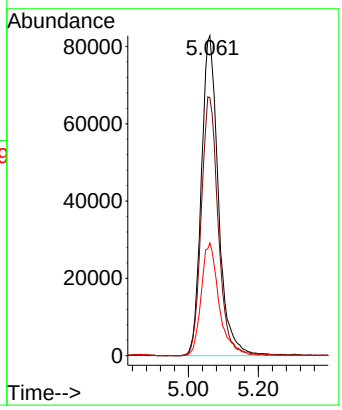
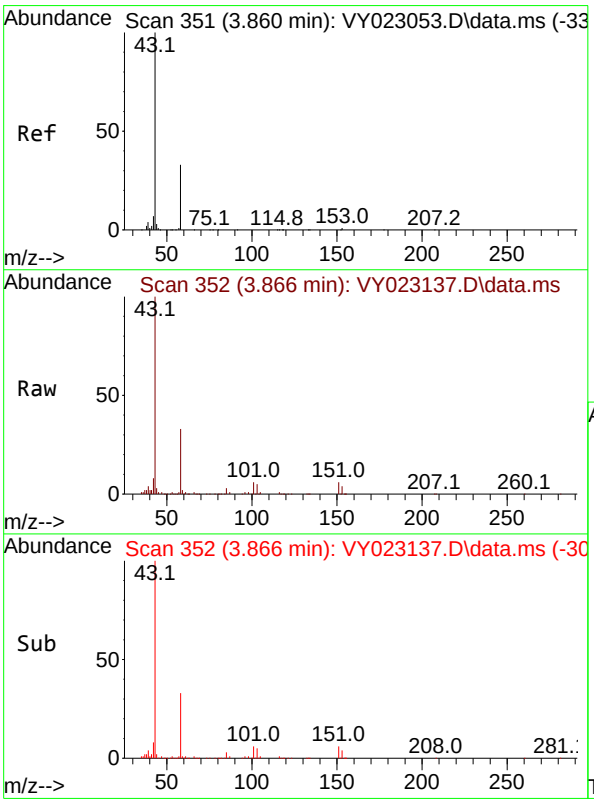
Supervised By :Mahesh Dadoda 08/20/2025

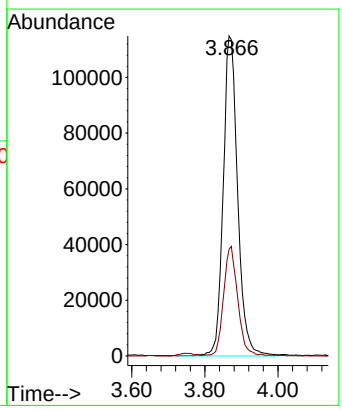


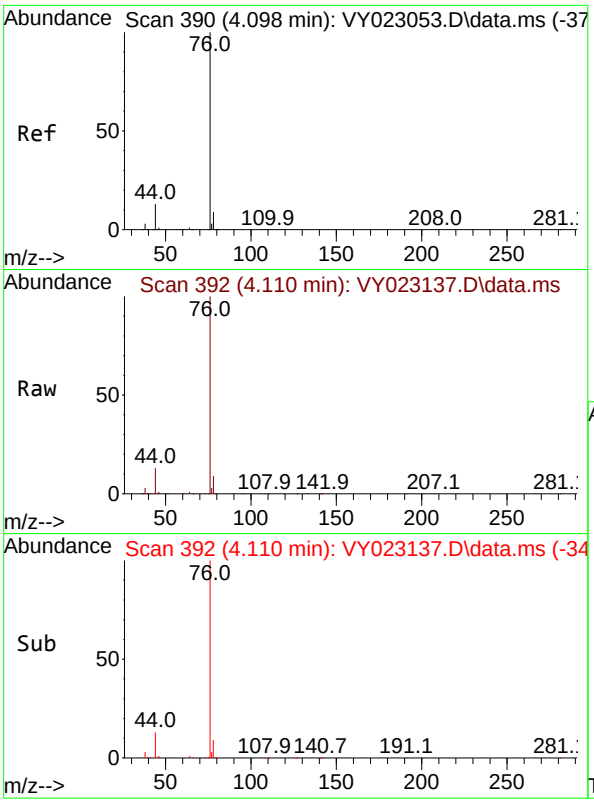


#16
Acetone
Concen: 273.812 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 316768

Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.1	40.7





#17
Carbon Disulfide
Concen: 46.117 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 76 Resp: 81188

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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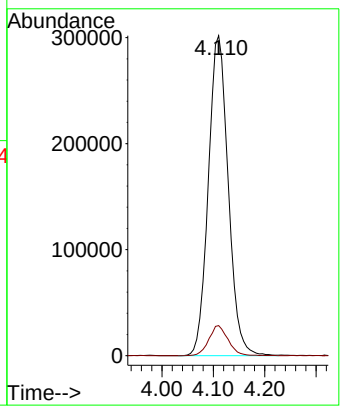
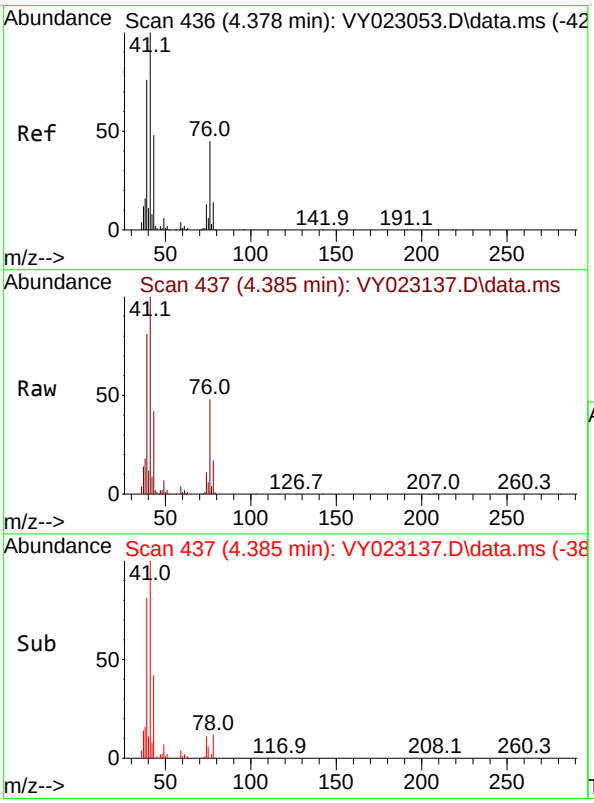
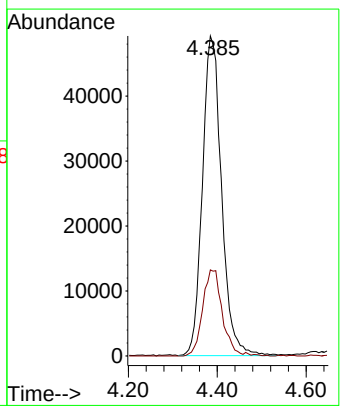


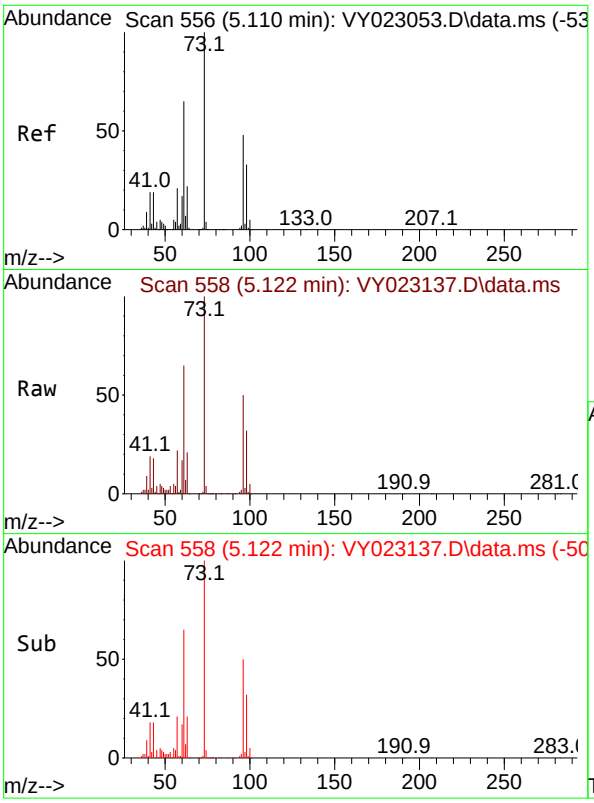


#18
Methyl Acetate
Concen: 42.821 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 147420

Ion	Ratio	Lower	Upper
43	100		
74	27.3	21.2	31.8

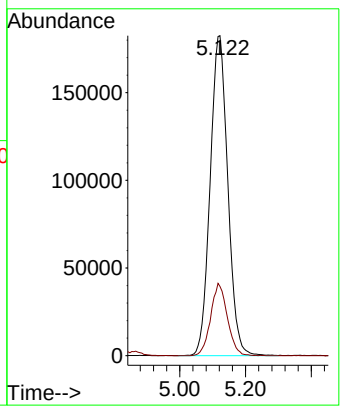




#19
Methyl tert-butyl Ether
Concen: 48.545 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 73 Resp: 67919

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7



Instrument :
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ClientSampleId :
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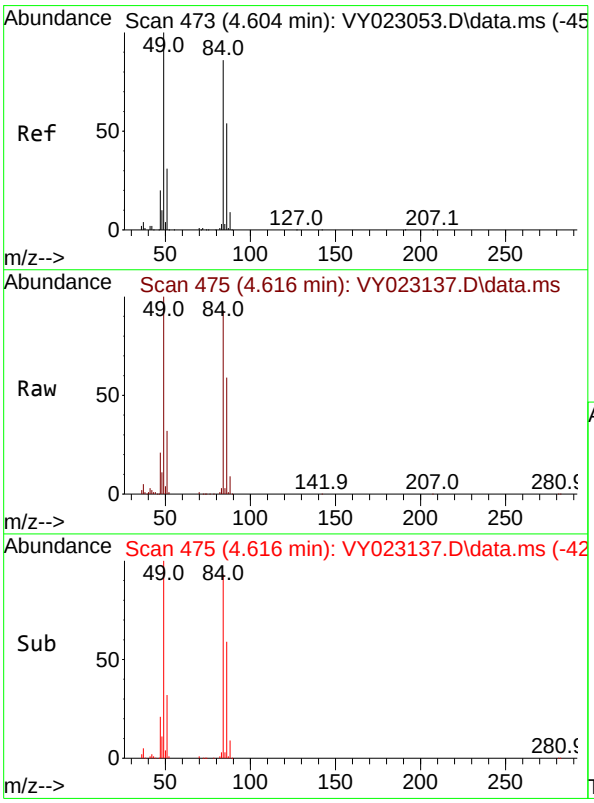
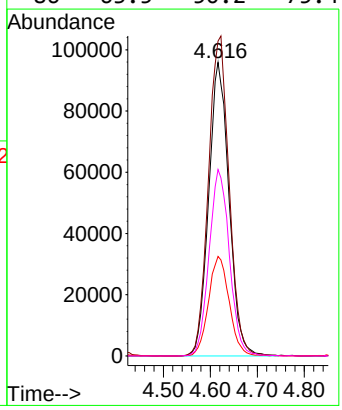
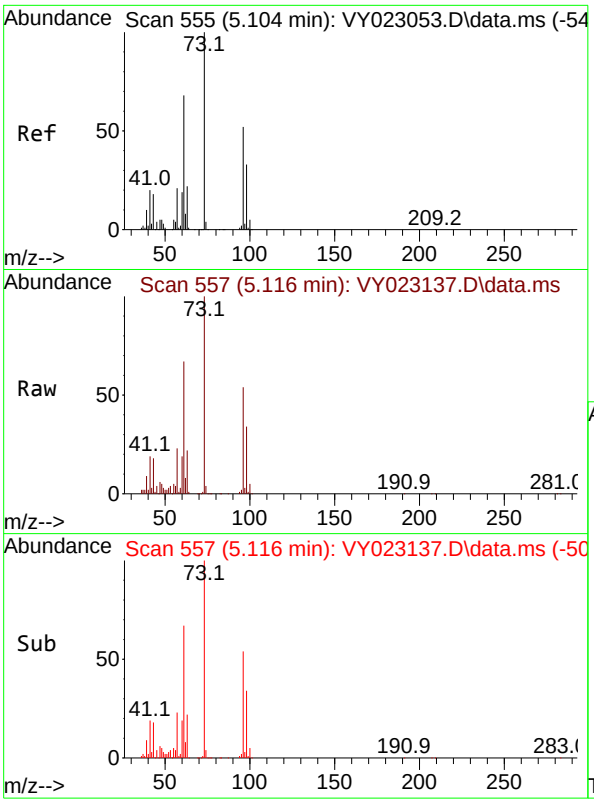


#20
Methylene Chloride
Concen: 47.727 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 84 Resp: 287656

Ion	Ratio	Lower	Upper
84	100		
49	107.3	93.0	139.6
51	33.9	29.0	43.4
86	63.5	50.2	75.4

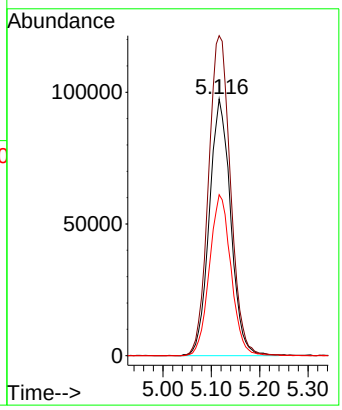




#21
trans-1,2-Dichloroethene
Concen: 49.404 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 29976

Ion	Ratio	Lower	Upper
96	100		
61	124.6	104.8	157.2
98	62.6	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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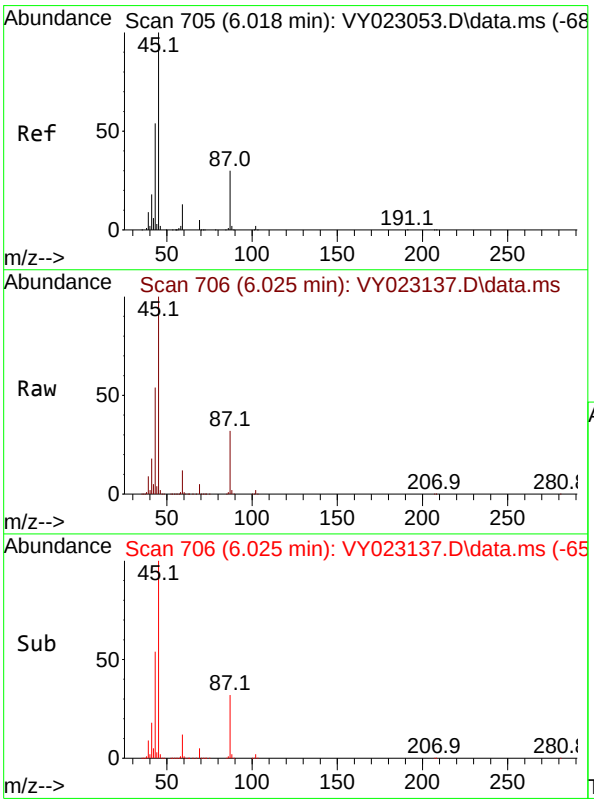
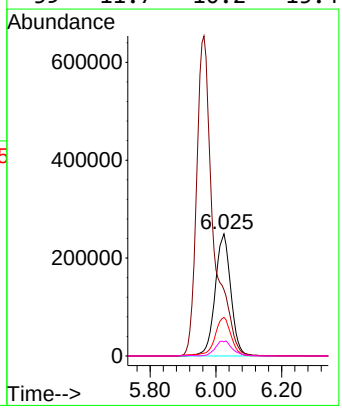
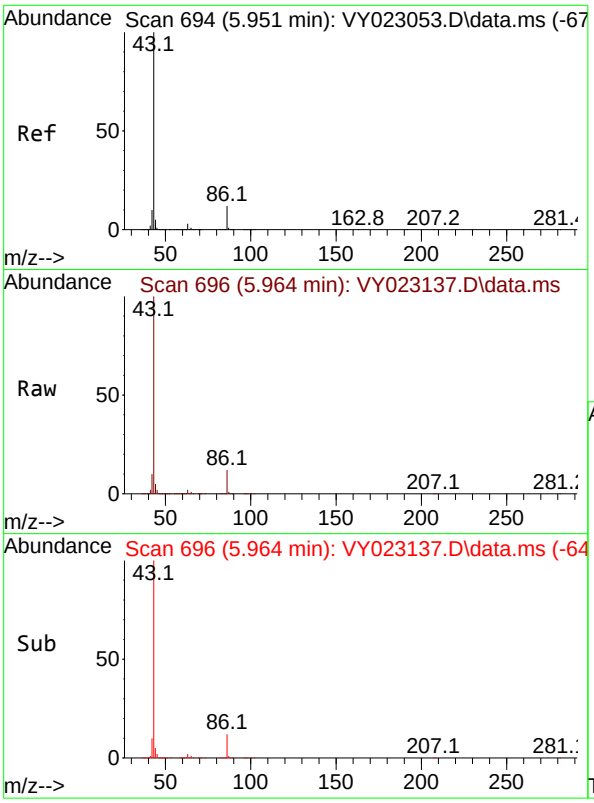


#22
Diisopropyl ether
Concen: 47.793 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 45 Resp: 825090

Ion	Ratio	Lower	Upper
45	100		
43	54.3	43.4	65.0
87	31.6	24.4	36.6
59	11.7	10.2	15.4

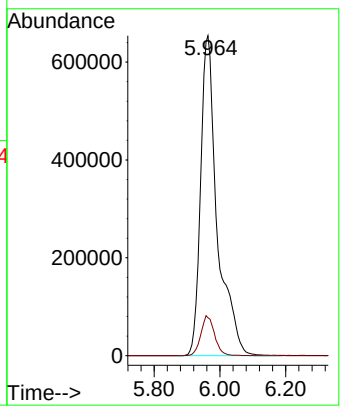




#23
Vinyl Acetate
Concen: 240.761 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 229829

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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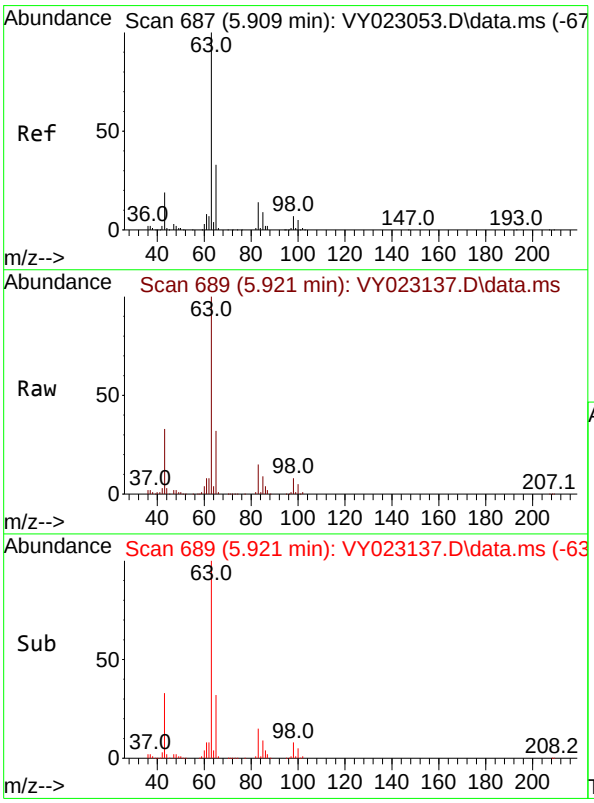
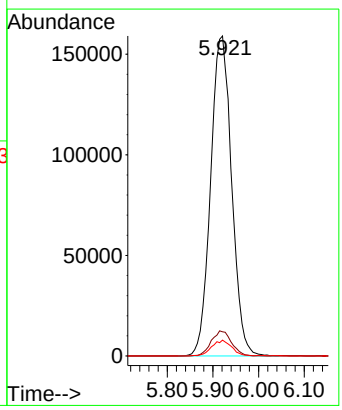
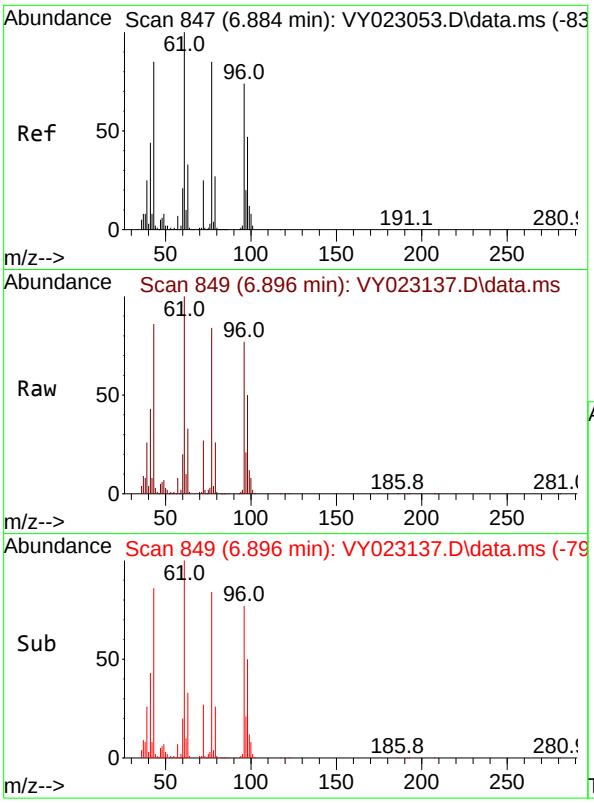


#24
1,1-Dichloroethane
Concen: 48.199 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 508733

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.6
100	5.0	2.4	7.1





#25
2-Butanone
Concen: 244.351 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 38446

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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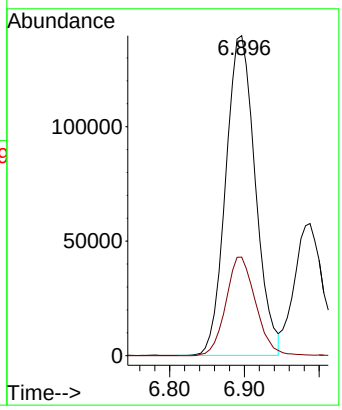
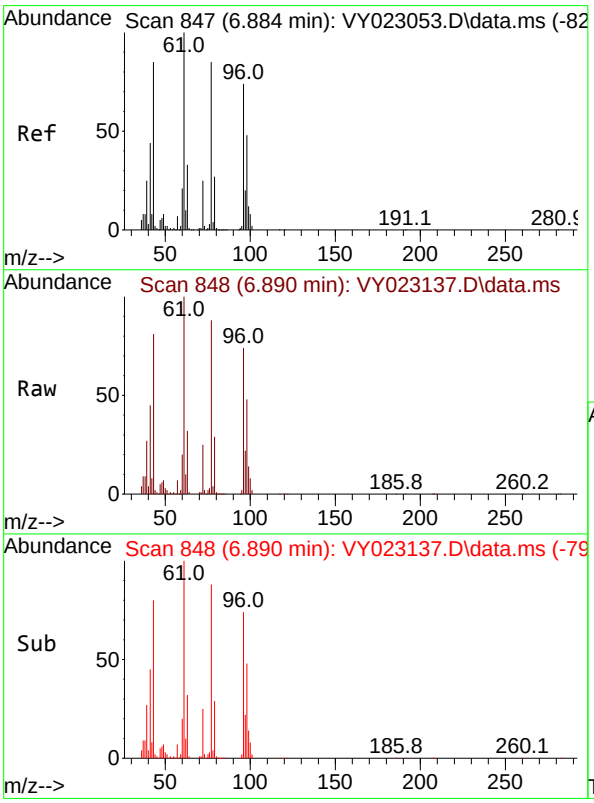
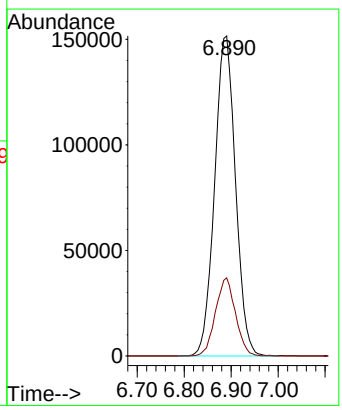


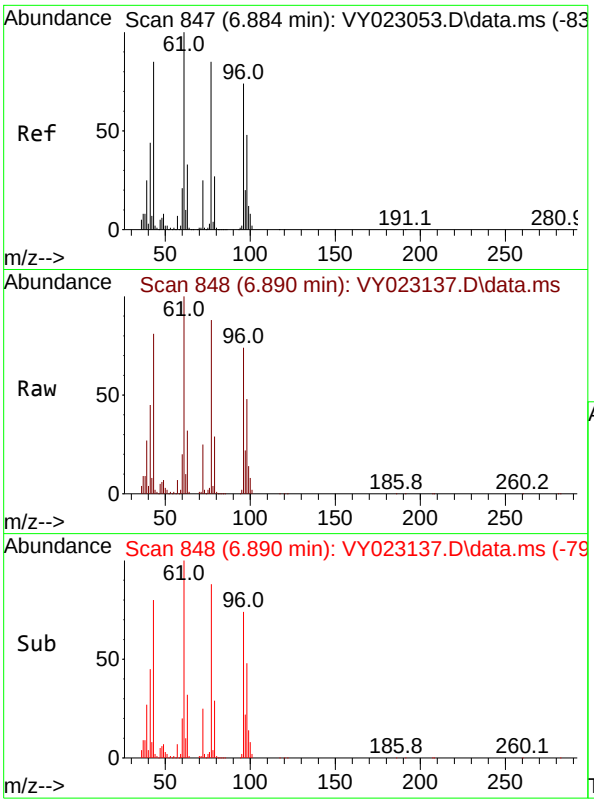


#26
2,2-Dichloropropane
Concen: 51.414 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 77 Resp: 468257

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 50.042 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 35101

Ion	Ratio	Lower	Upper
96	100		
61	135.5	0.0	278.6
98	64.8	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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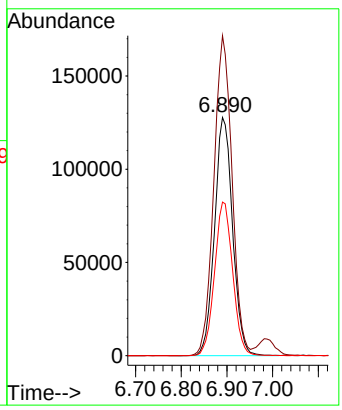
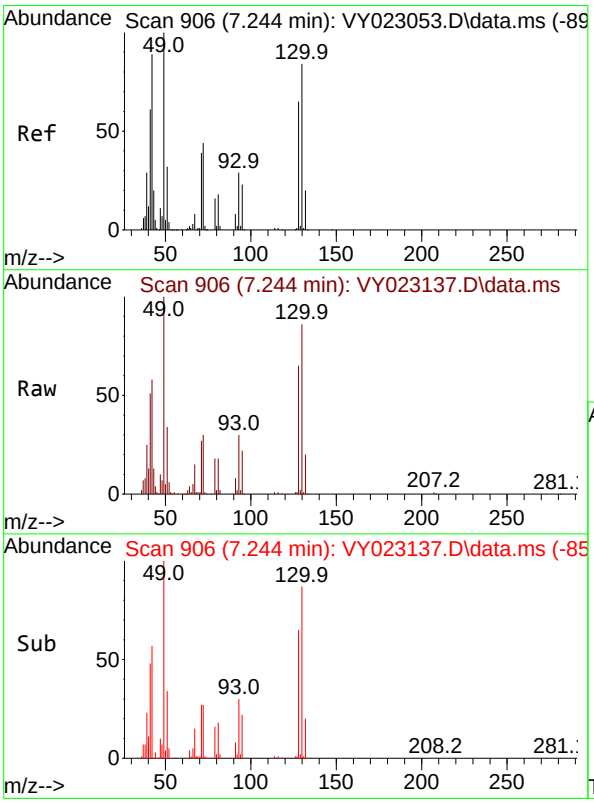
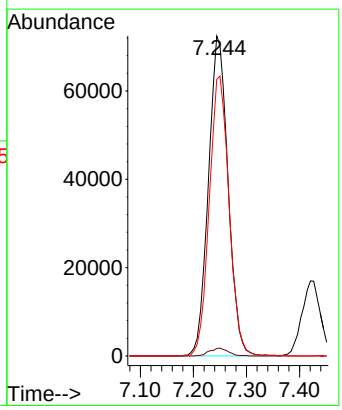


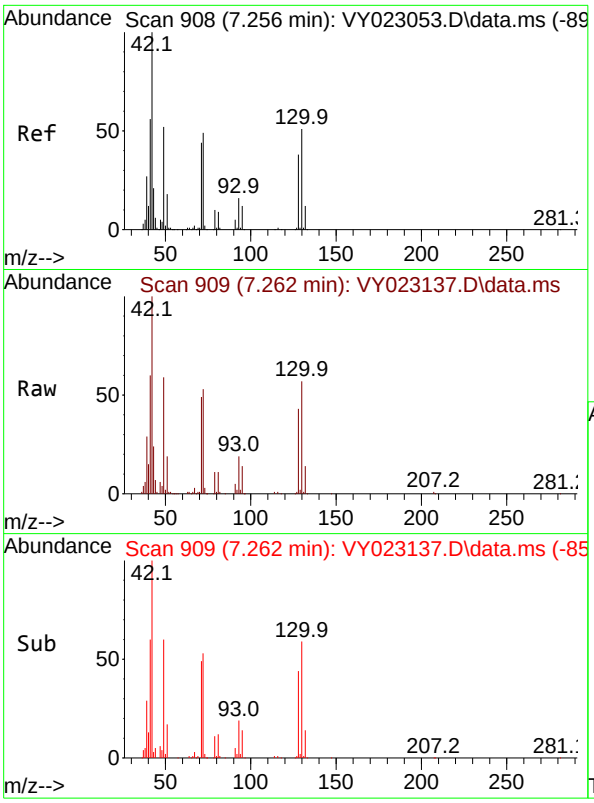


#28
Bromochloromethane
Concen: 44.509 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 49 Resp: 186381

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	87.8	66.4	99.6





#29
Tetrahydrofuran
Concen: 226.737 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 42 Resp: 22113

Ion	Ratio	Lower	Upper
42	100		
72	51.1	39.4	59.2
71	48.6	36.5	54.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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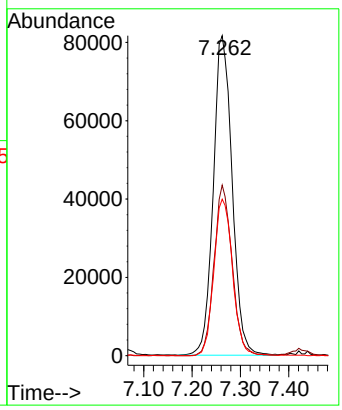
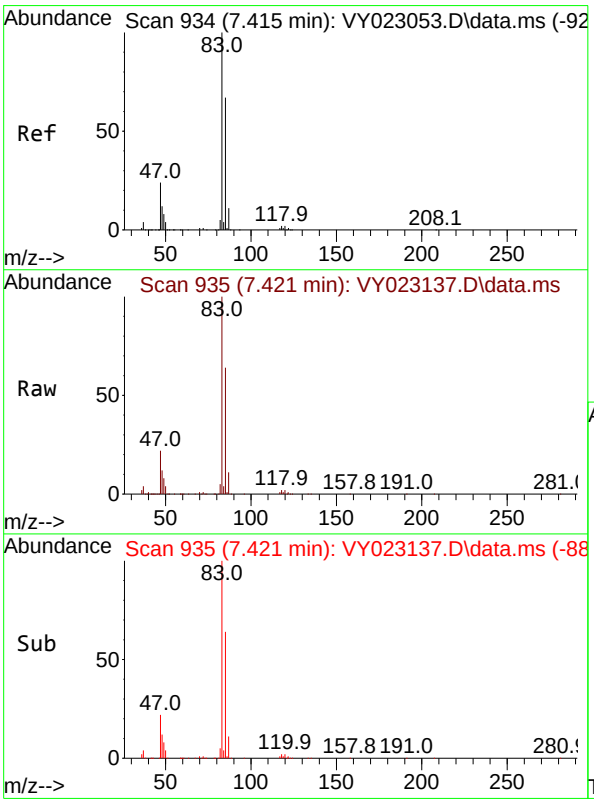
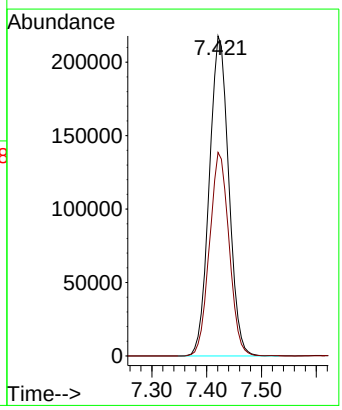


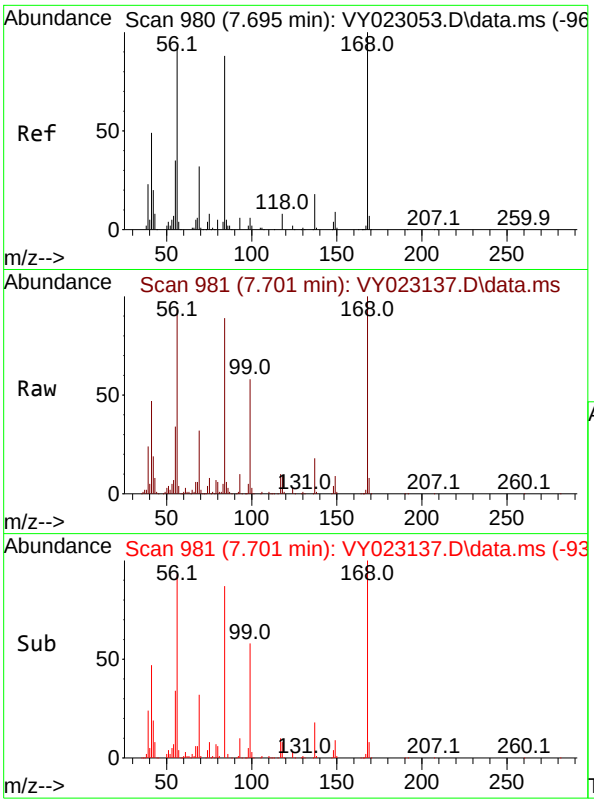


#30
Chloroform
Concen: 49.287 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 536519

Ion	Ratio	Lower	Upper
83	100		
85	63.6	53.8	80.8

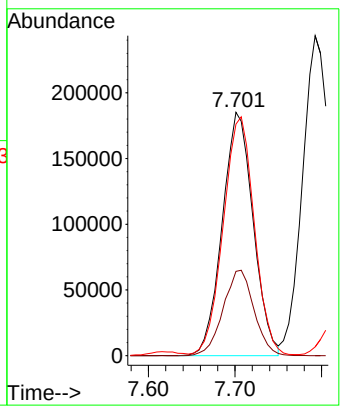




#31
Cyclohexane
Concen: 46.269 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 56 Resp: 46021

Ion	Ratio	Lower	Upper
56	100		
69	34.6	28.2	42.2
84	94.2	76.6	114.8



Instrument :
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ClientSampleId :
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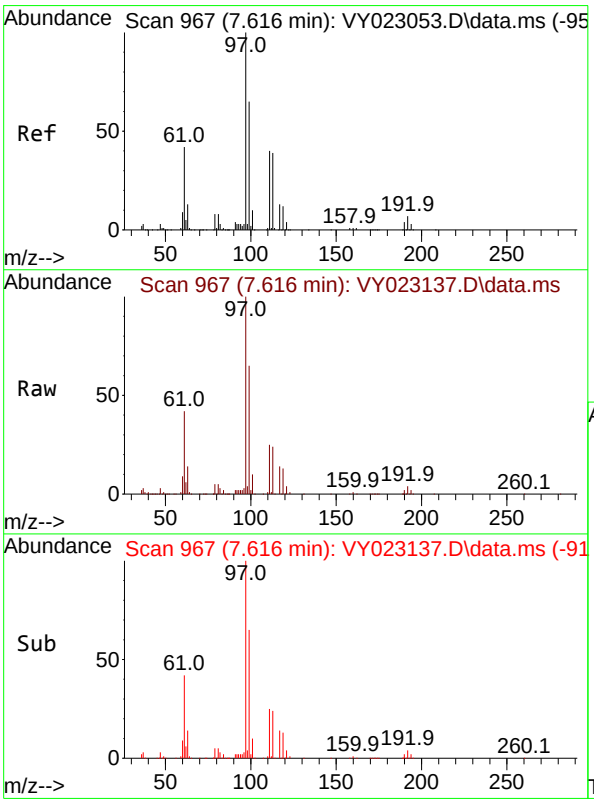
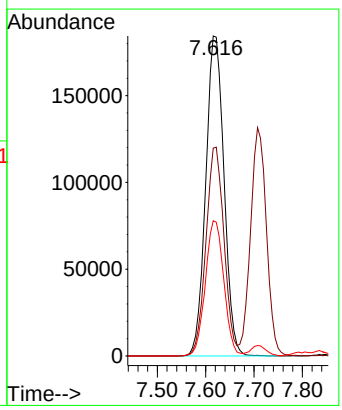
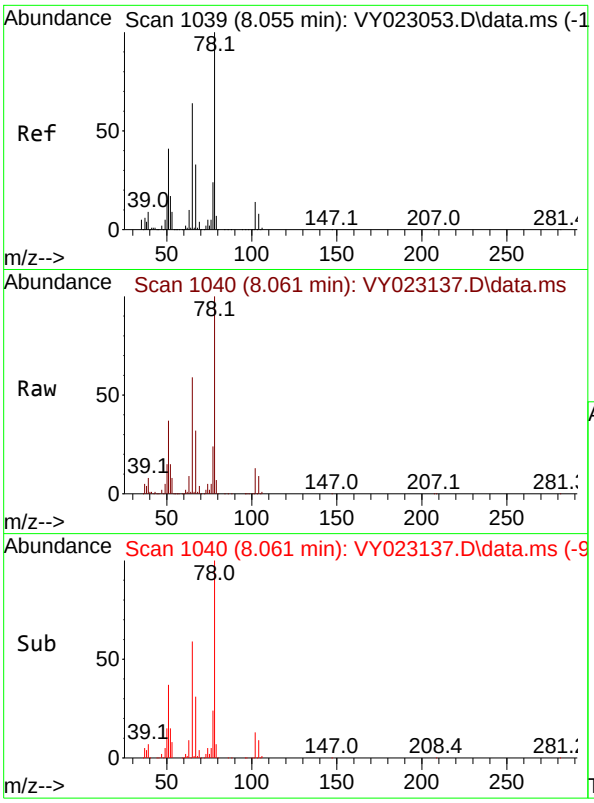


#32
1,1,1-Trichloroethane
Concen: 50.106 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 97 Resp: 483961

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	42.7	34.2	51.2

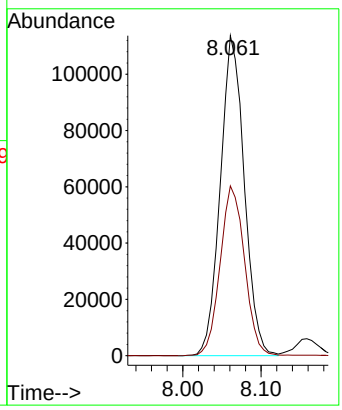




#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 65 Resp: 24166

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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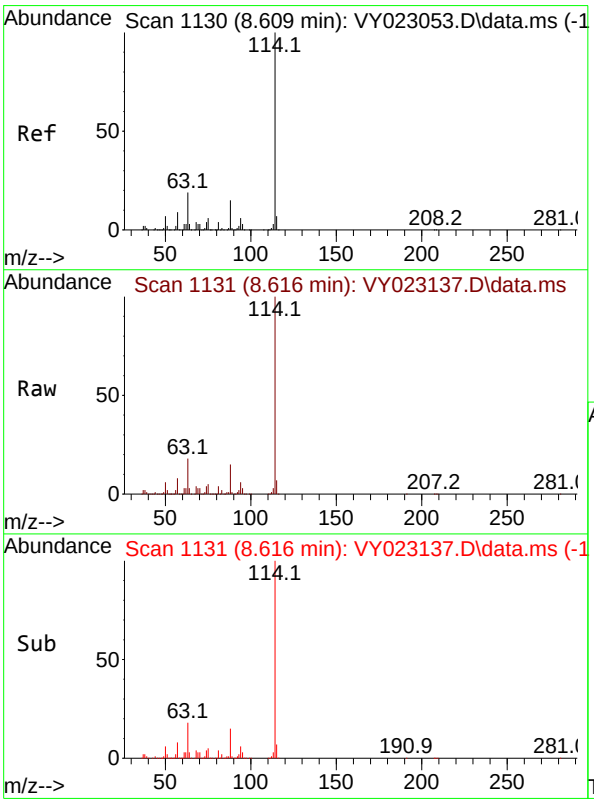
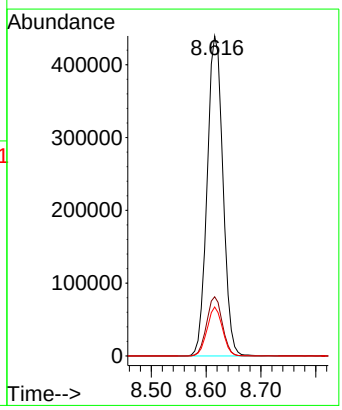
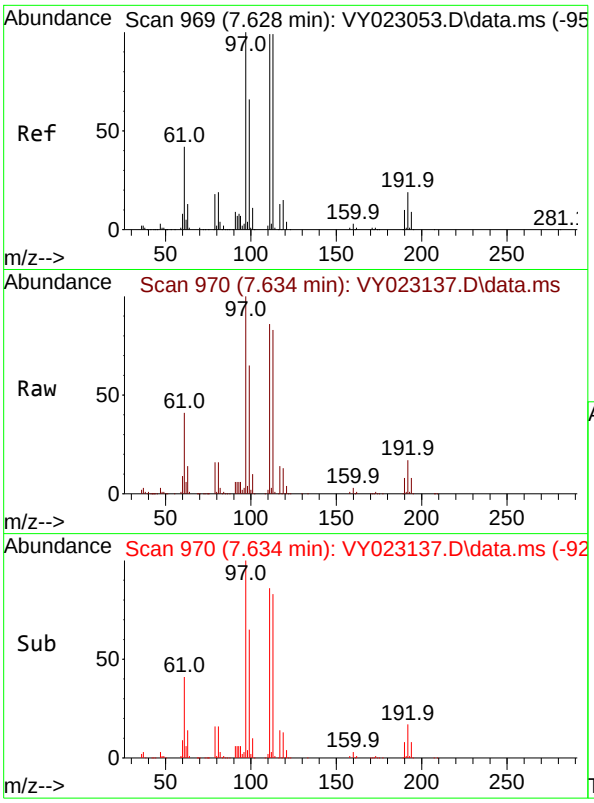


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:114 Resp: 876189

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	38.4
88	15.3	0.0	30.0





#35
Dibromofluoromethane
Concen: 48.854 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:113 Resp: 25613

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	20.3	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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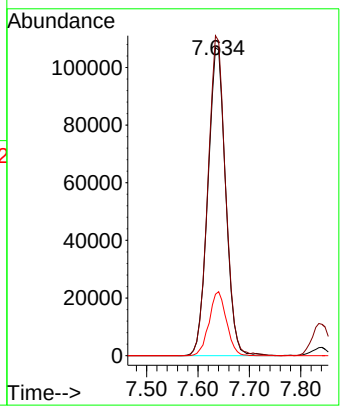
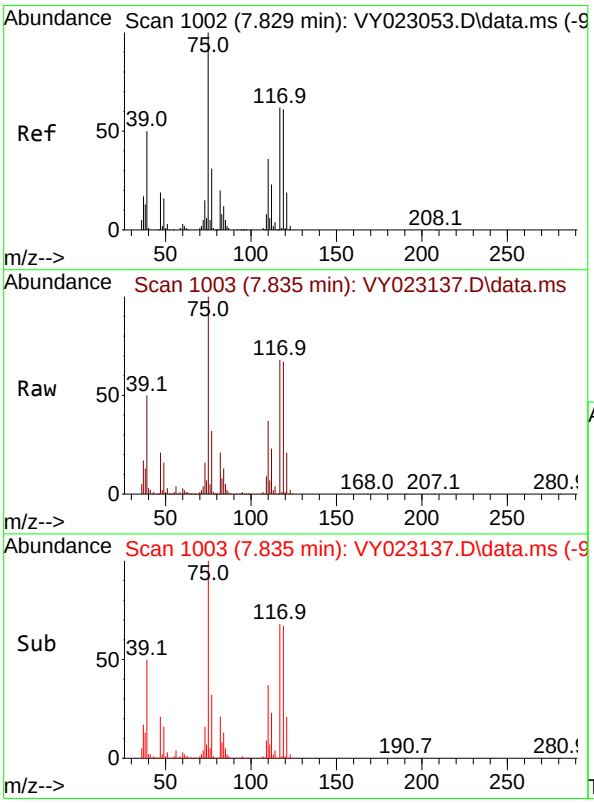
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

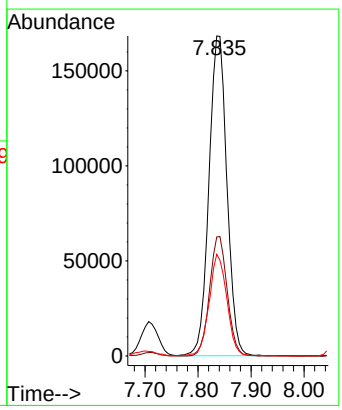


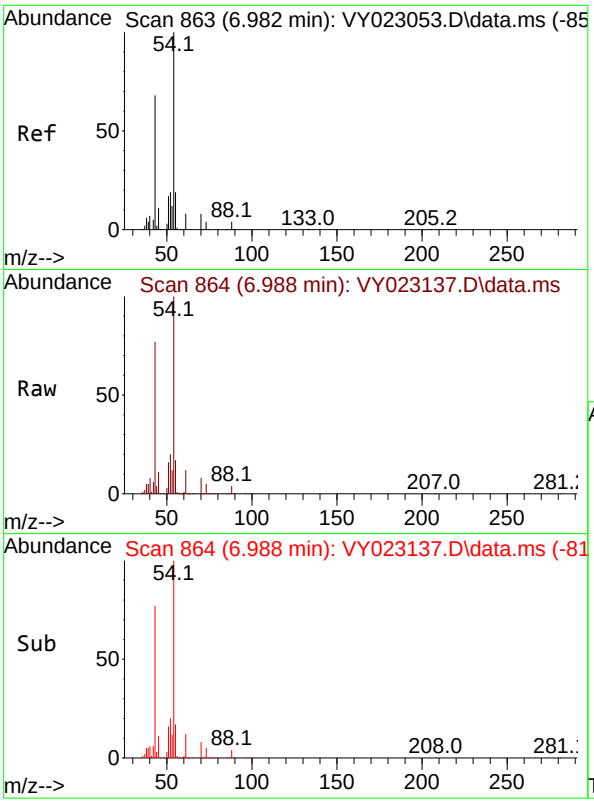


#36
1,1-Dichloropropene
Concen: 50.818 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 395952

Ion	Ratio	Lower	Upper
75	100		
110	36.7	18.1	54.4
77	31.3	24.6	37.0





#37
Ethyl Acetate
Concen: 48.006 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 15712

Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.9	17.9
70	11.1	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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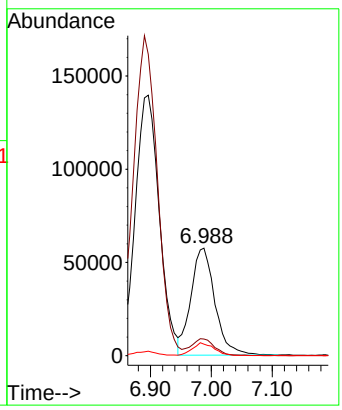
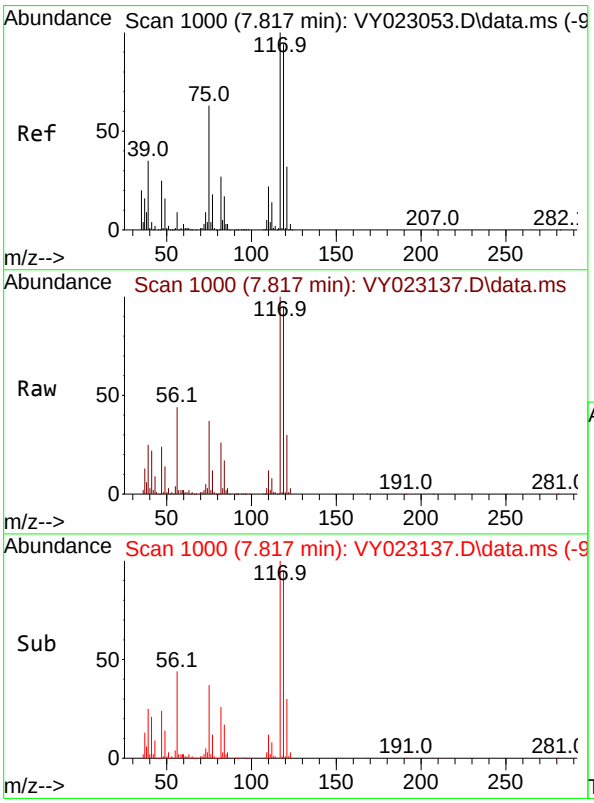
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

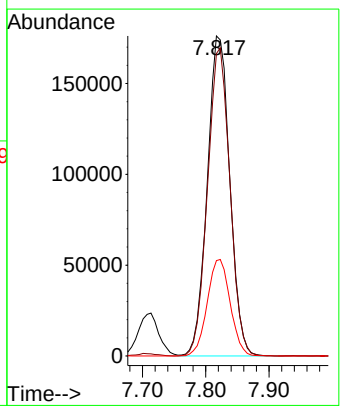


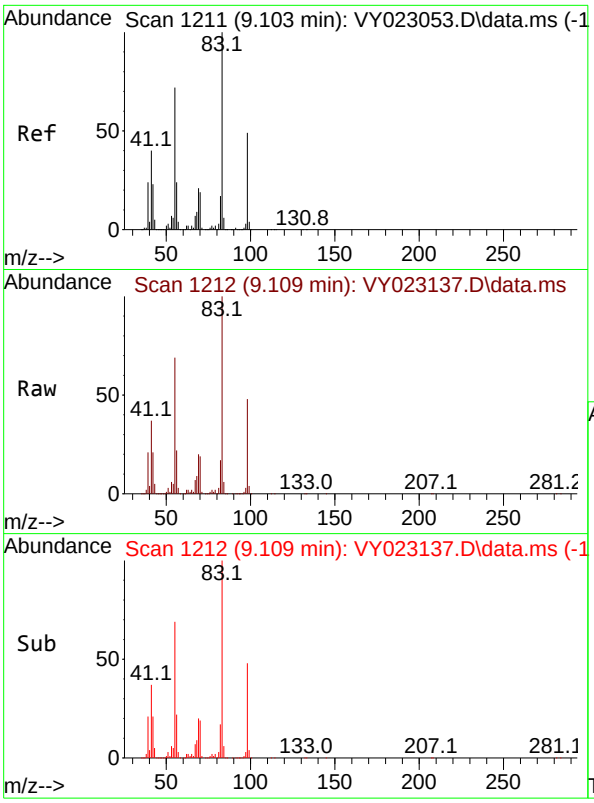


#38
Carbon Tetrachloride
Concen: 51.581 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 436510

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	29.8	25.8	38.8





#39
Methylcyclohexane
Concen: 51.832 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 53182

Ion	Ratio	Lower	Upper
83	100		
55	68.7	57.6	86.4
98	48.0	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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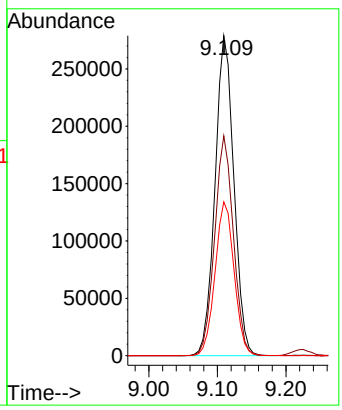
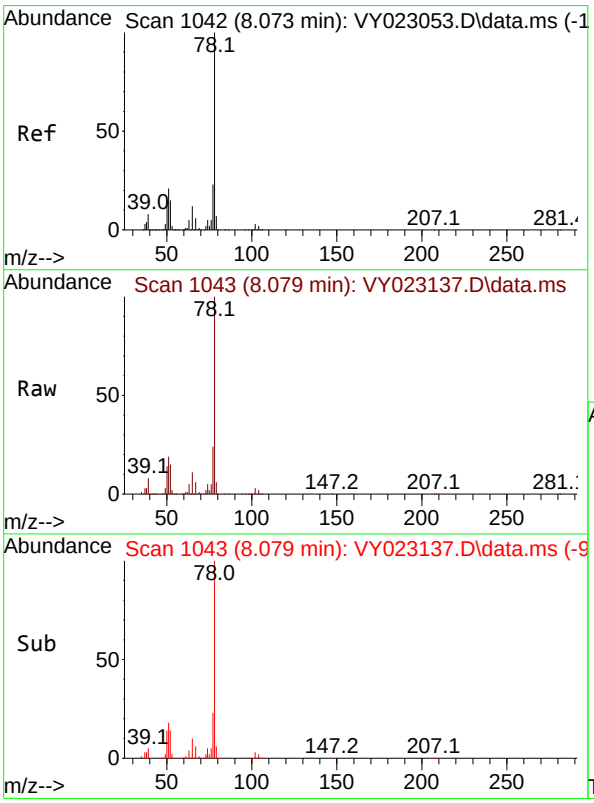
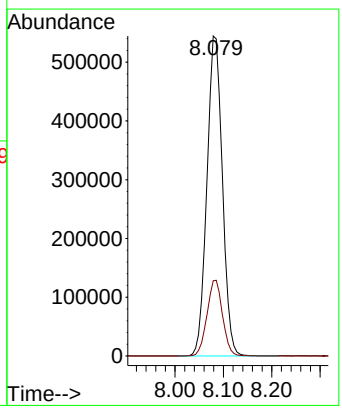


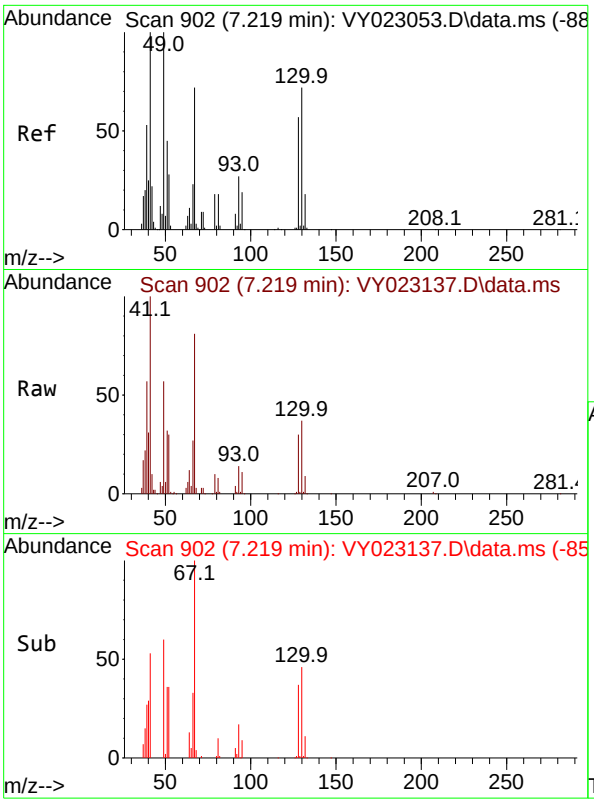


#40
Benzene
Concen: 50.401 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 78 Resp: 1210380

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0

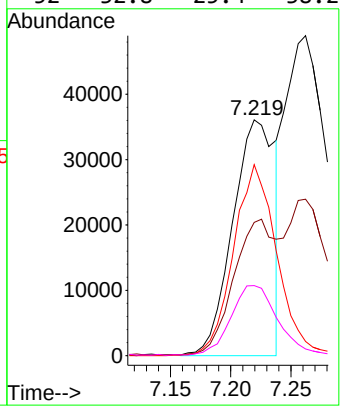




#41
Methacrylonitrile
Concen: 46.765 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 8833

Ion	Ratio	Lower	Upper
41	100		
39	55.8	43.4	65.2
67	82.9	63.6	95.4
52	32.8	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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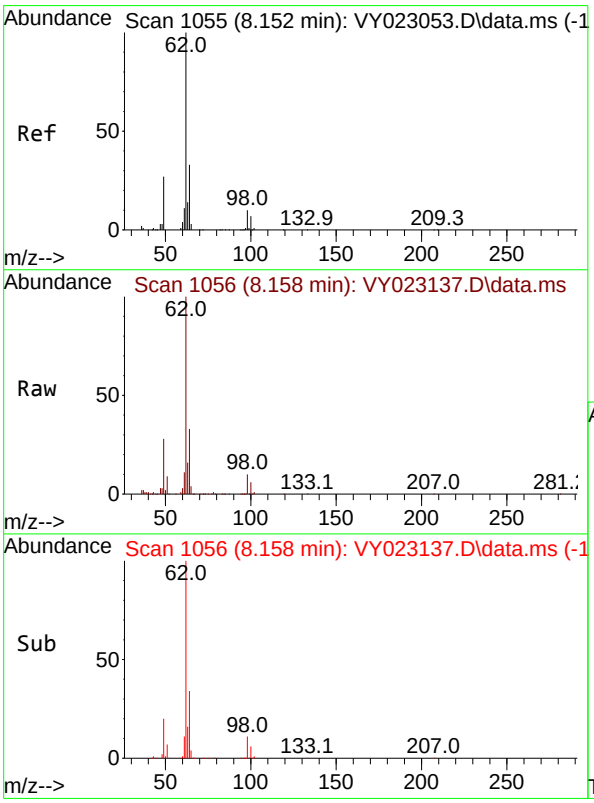
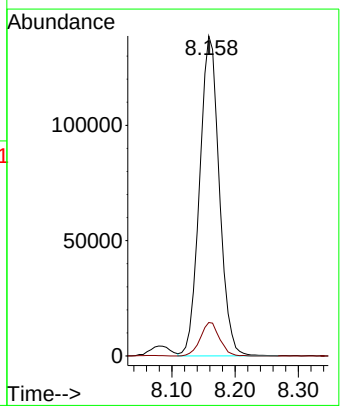
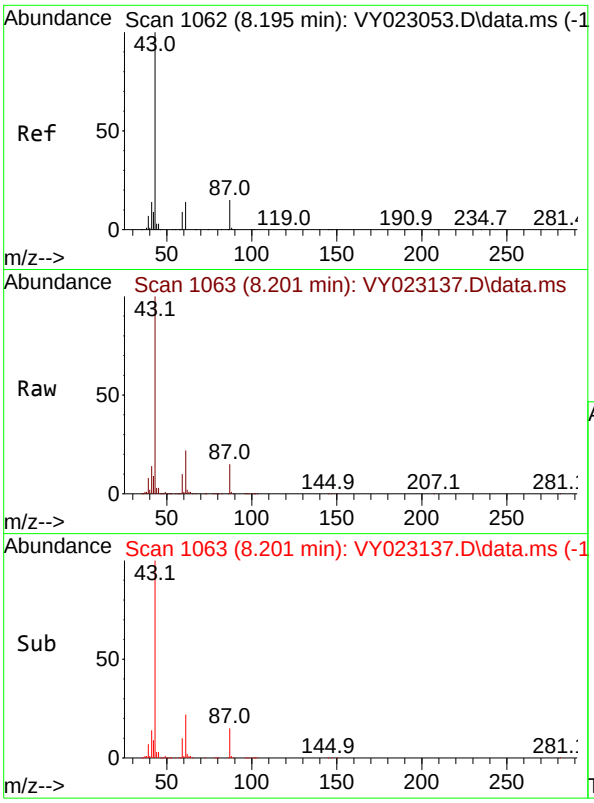


#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 300070

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.6





#43
Isopropyl Acetate
Concen: 46.703 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 30895

Ion	Ratio	Lower	Upper
43	100		
61	32.2	16.4	24.6
87	15.7	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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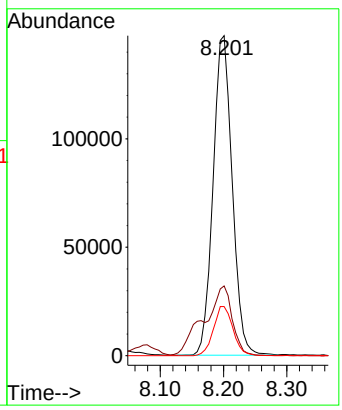
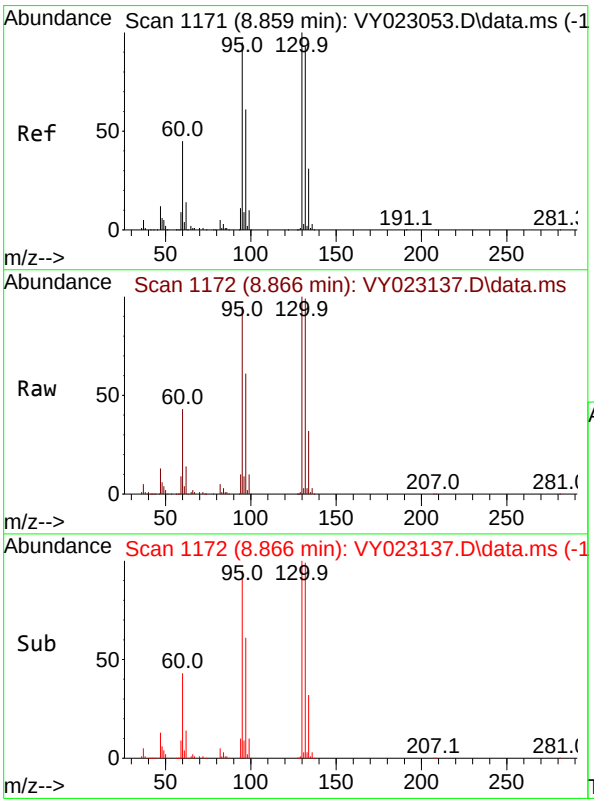
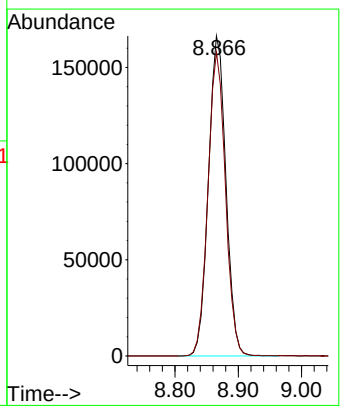


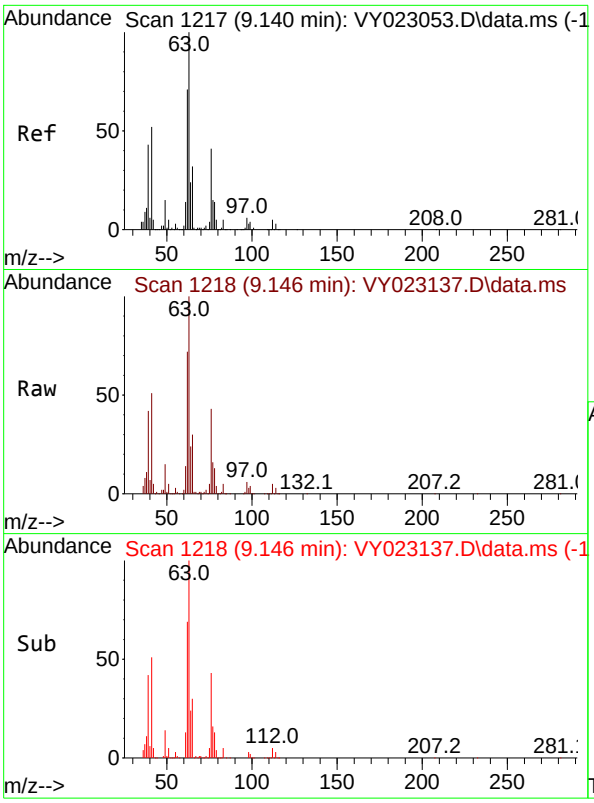


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:130 Resp: 319381

Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	190.2

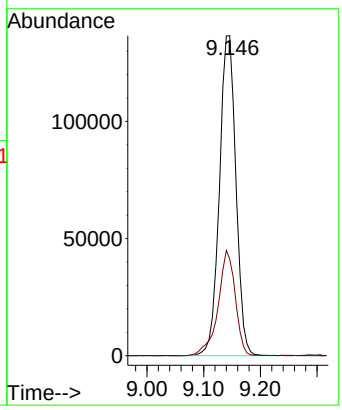




#45
1,2-Dichloropropane
Concen: 50.044 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 27652

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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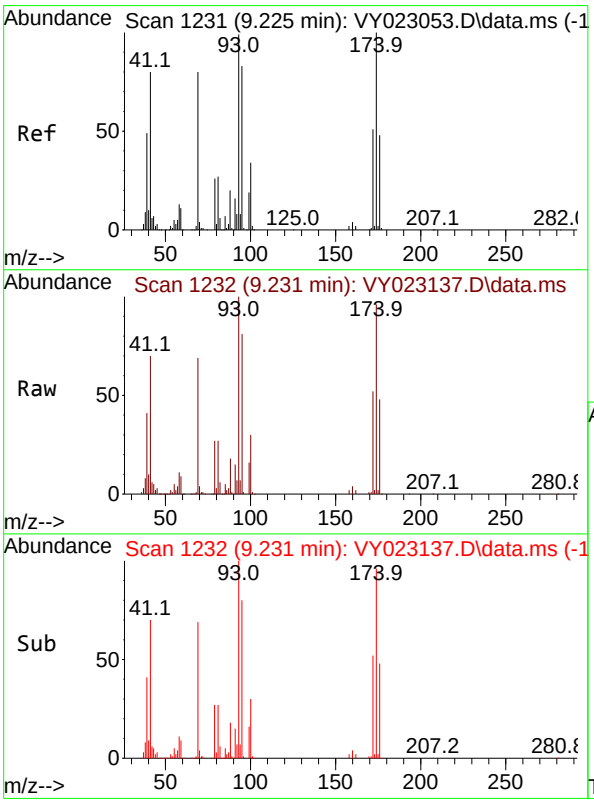
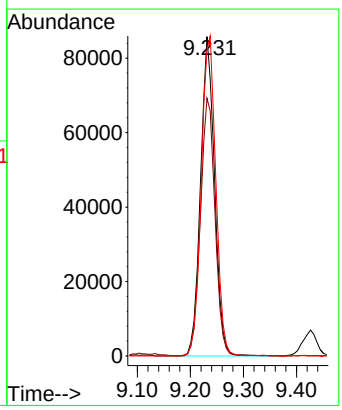
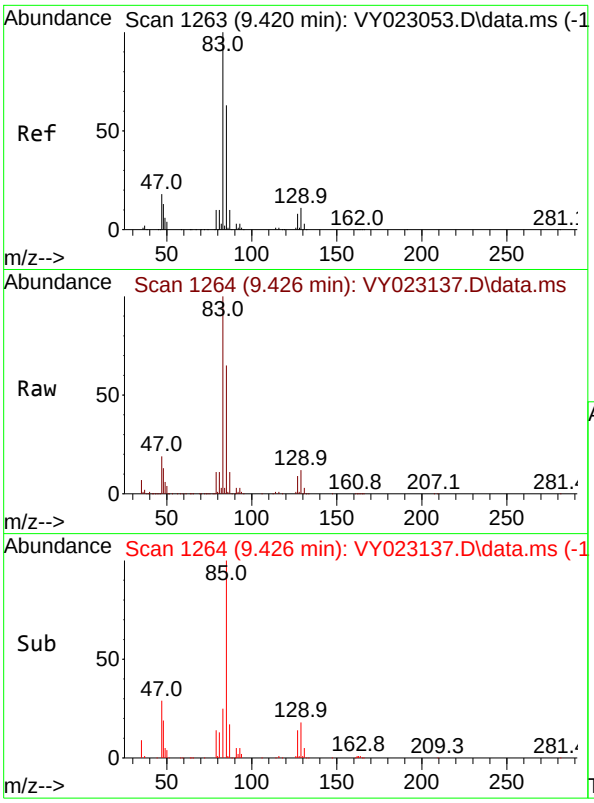


#46
Dibromomethane
Concen: 49.637 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 93 Resp: 157422

Ion	Ratio	Lower	Upper
93	100		
95	83.8	66.5	99.7
174	103.7	81.8	122.8

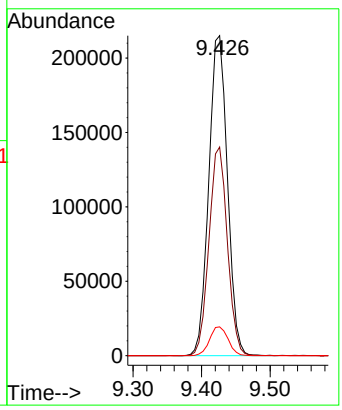




#47
Bromodichloromethane
Concen: 49.781 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 40624

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.2	75.4
127	9.0	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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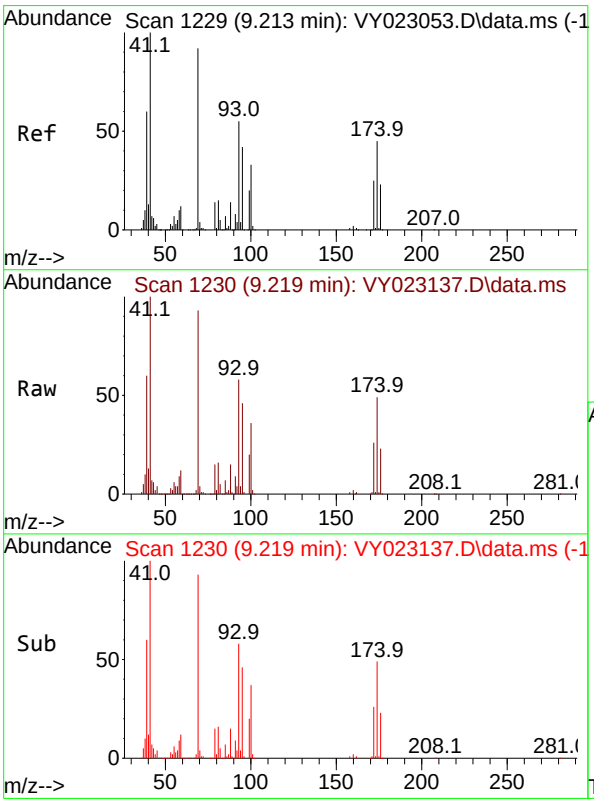
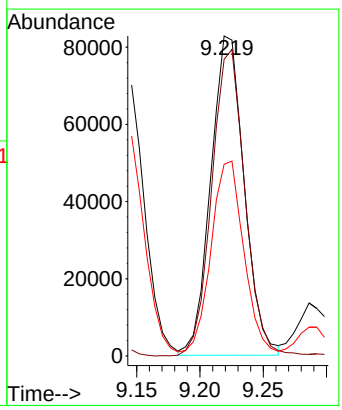
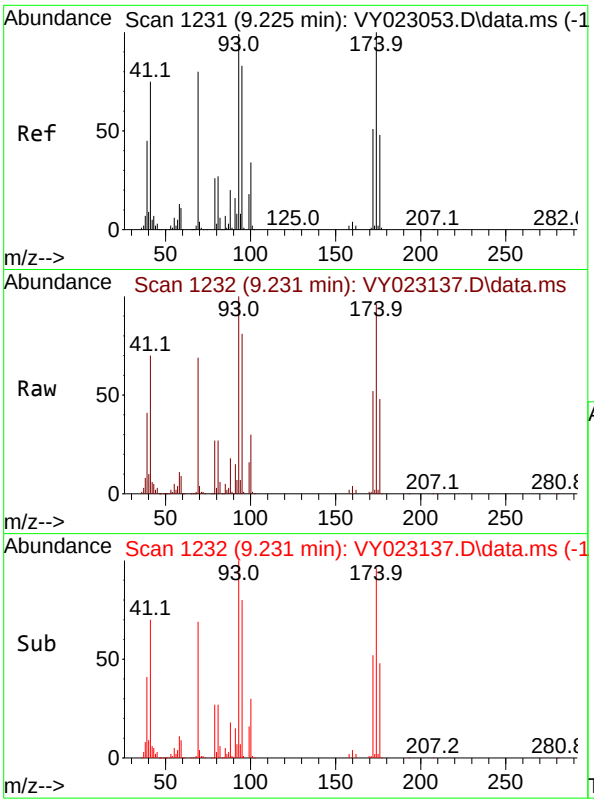


#48
Methyl methacrylate
Concen: 48.023 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 152020

Ion	Ratio	Lower	Upper
41	100		
69	95.3	73.2	109.8
39	58.1	47.0	70.4





#49
1,4-Dioxane
Concen: 934.713 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 88 Resp: 3475

Ion	Ratio	Lower	Upper
88	100		
43	30.0	24.3	36.5
58	65.6	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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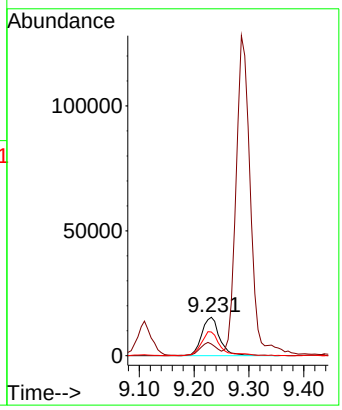
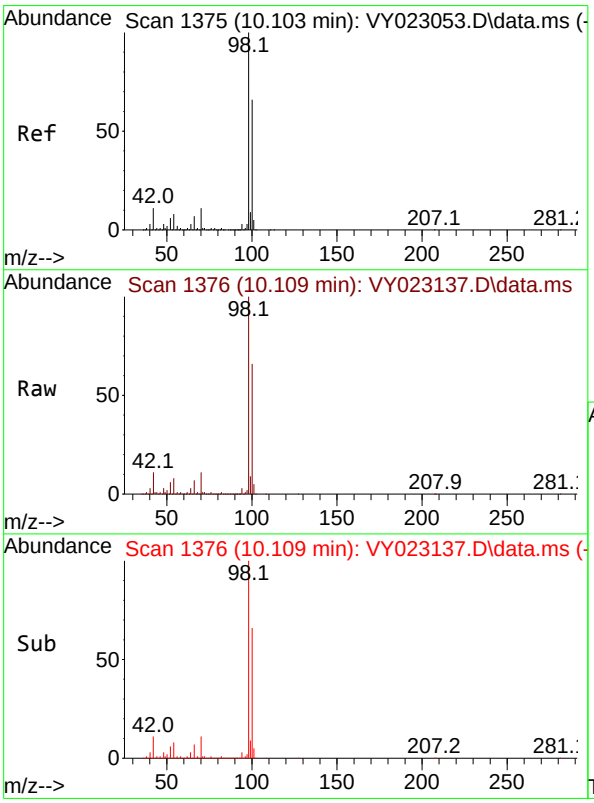
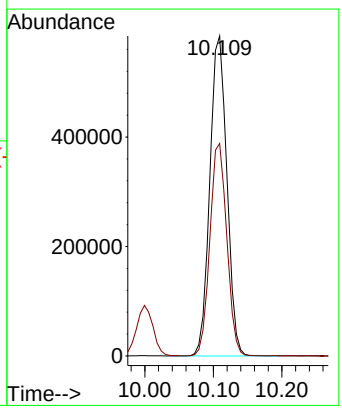


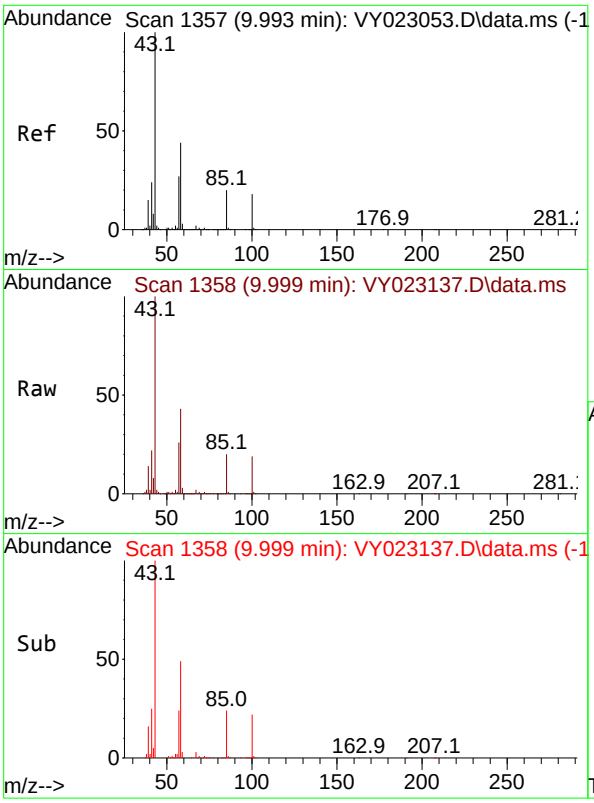


#50
Toluene-d8
Concen: 49.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 98 Resp: 1008048

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 240.906 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 82206

Ion	Ratio	Lower	Upper
43	100		
58	43.0	33.5	50.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 08/20/2025
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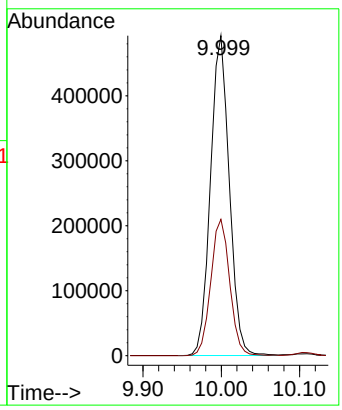
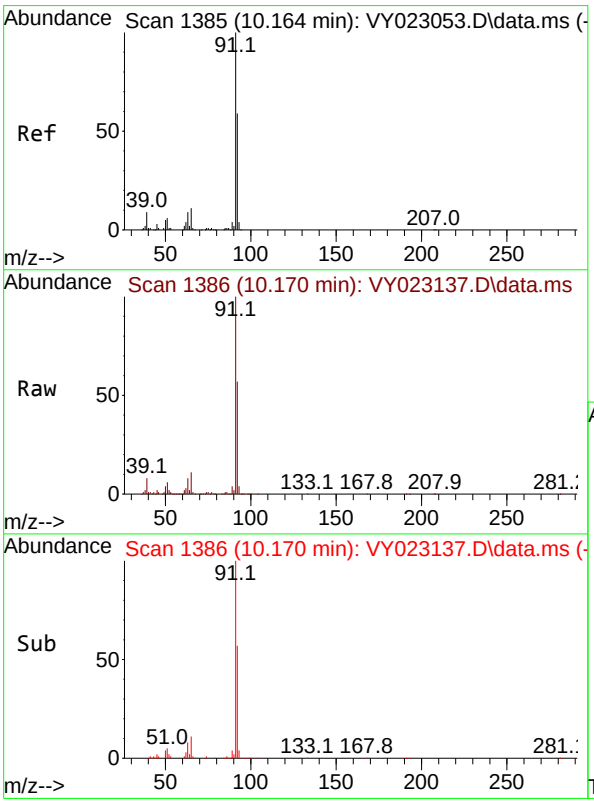
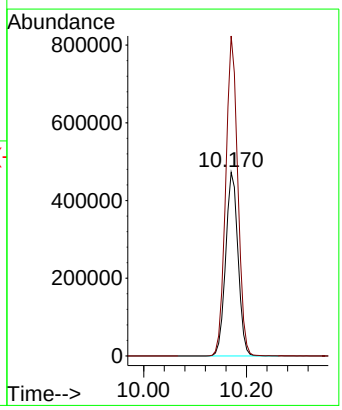


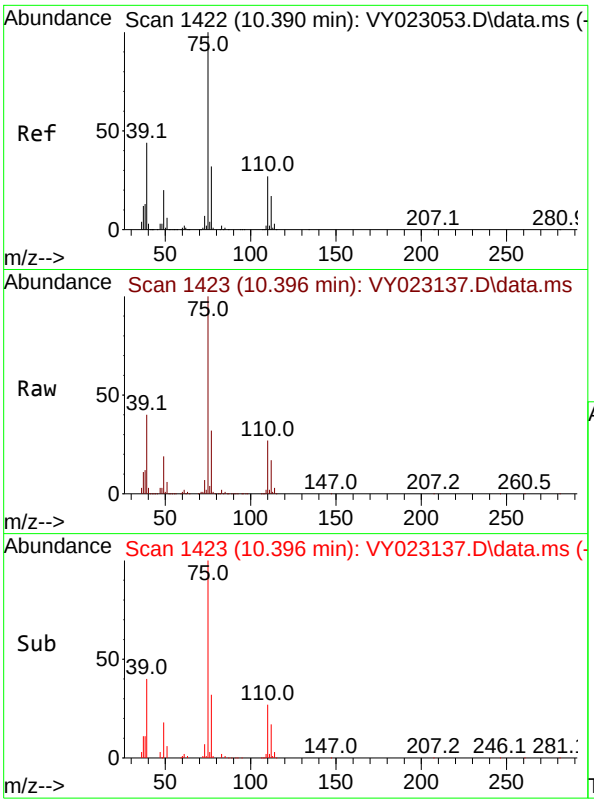


#52
Toluene
Concen: 51.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 92 Resp: 788070

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 51.112 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 37770

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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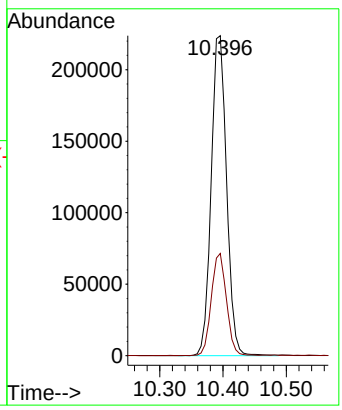
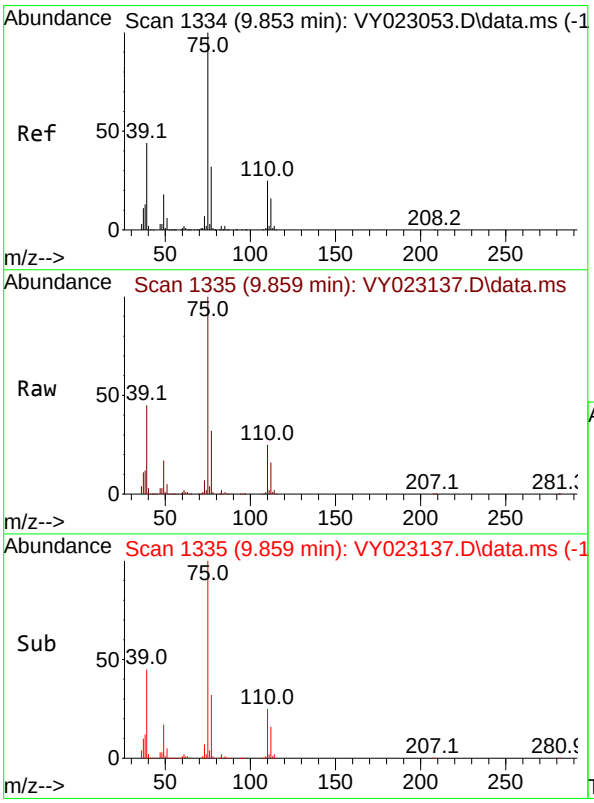
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

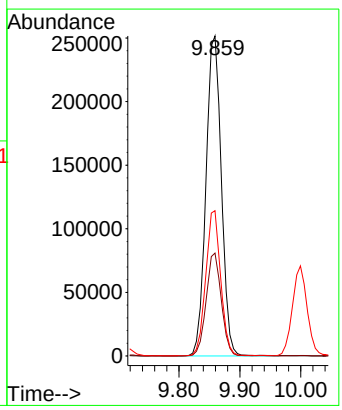


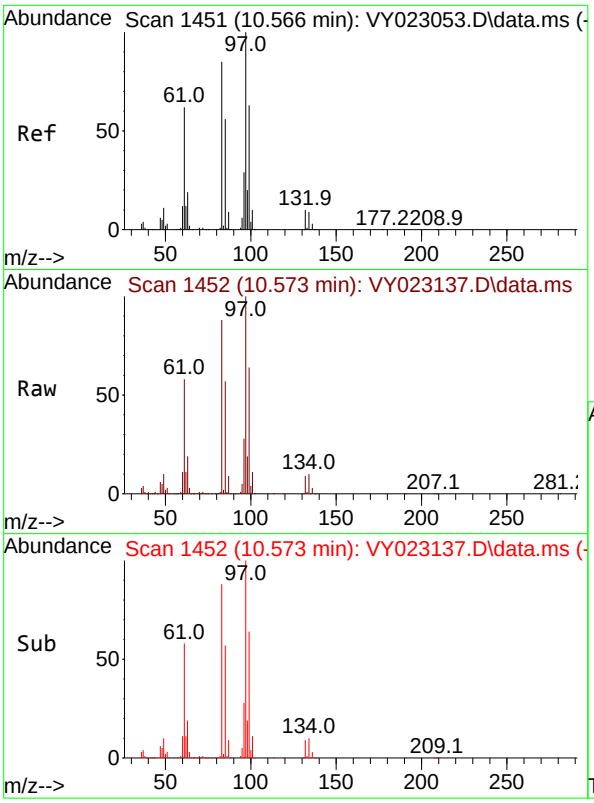


#54
cis-1,3-Dichloropropene
Concen: 50.516 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 441435

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.0
39	45.3	35.6	53.4

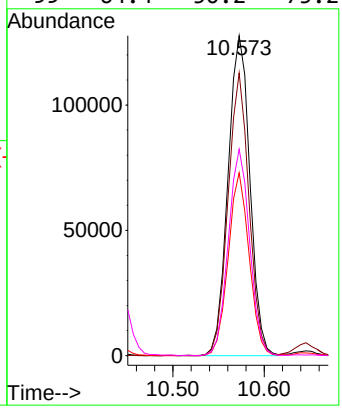




#55
1,1,2-Trichloroethane
Concen: 50.206 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 97 Resp: 21306

Ion	Ratio	Lower	Upper
97	100		
83	88.4	67.7	101.5
85	57.1	44.5	66.7
99	64.4	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
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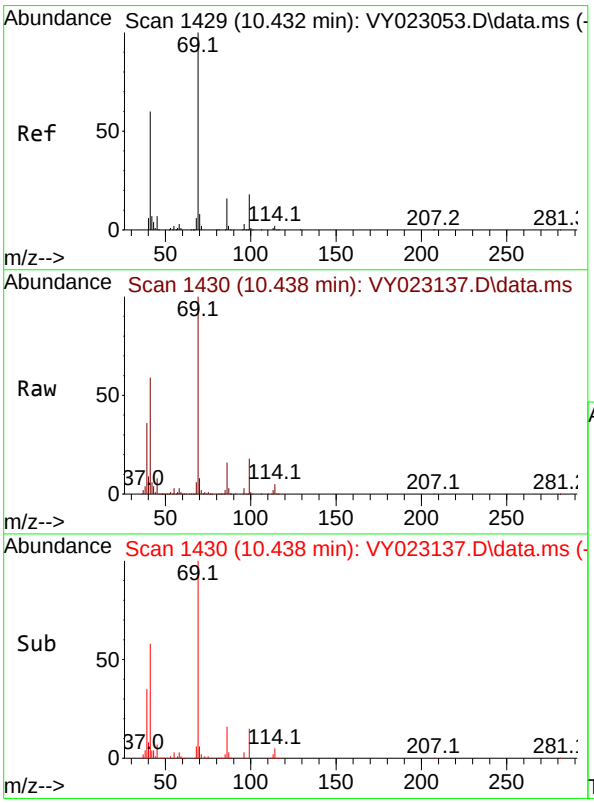
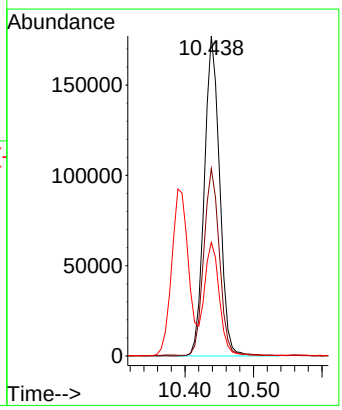
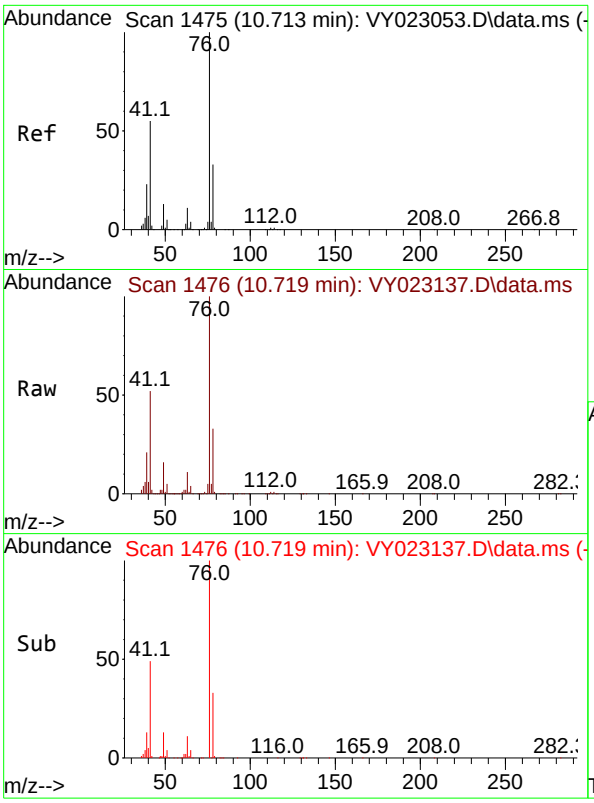


#56
Ethyl methacrylate
Concen: 50.859 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 69 Resp: 276182

Ion	Ratio	Lower	Upper
69	100		
41	59.0	48.6	72.8
39	33.7	27.0	40.4





#57
1,3-Dichloropropane
Concen: 49.273 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 76 Resp: 35462

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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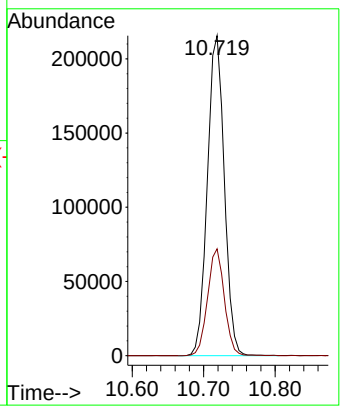
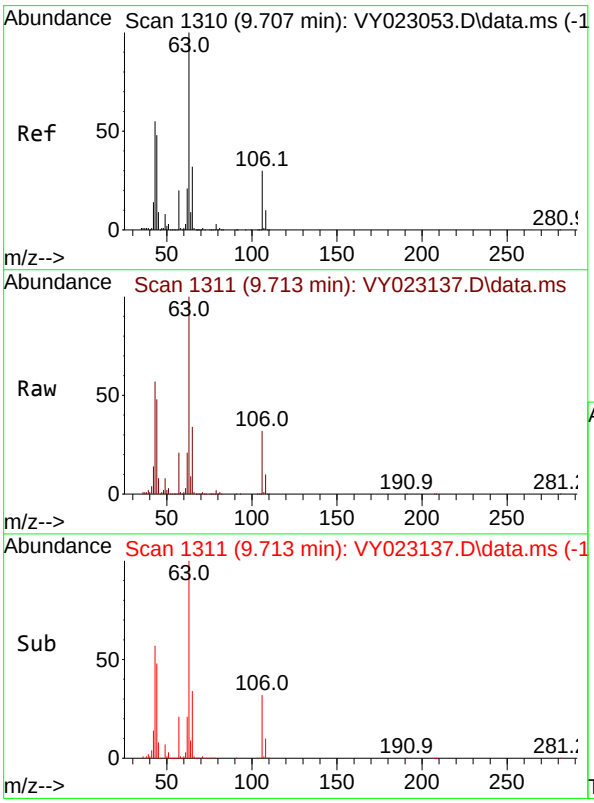
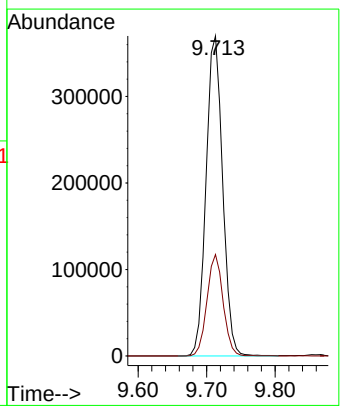


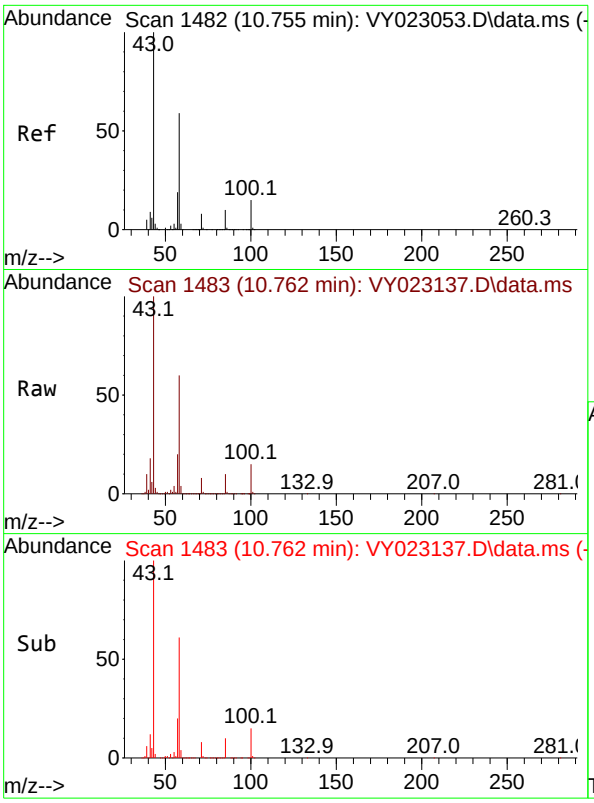


#58
2-Chloroethyl Vinyl ether
Concen: 242.835 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 622022

Ion	Ratio	Lower	Upper
63	100		
106	30.8	23.2	34.8





#59
2-Hexanone
Concen: 254.865 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 59220

Ion	Ratio	Lower	Upper
43	100		
58	60.2	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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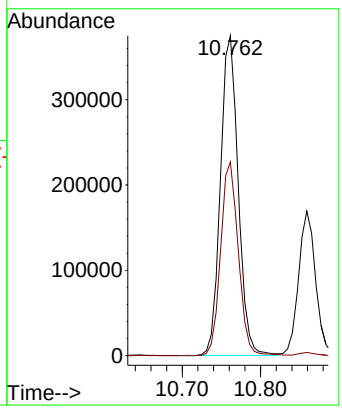
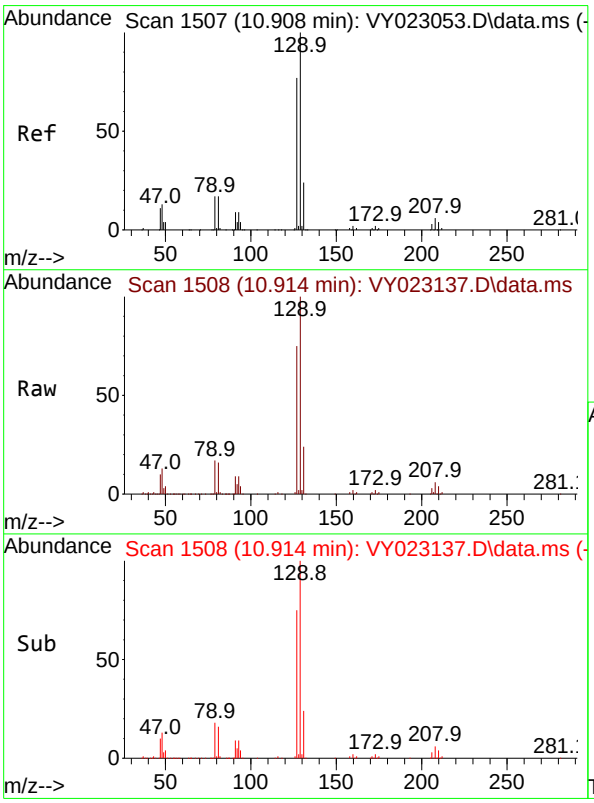
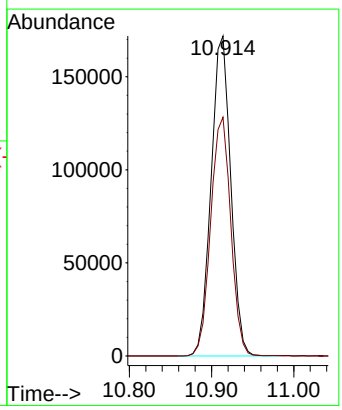


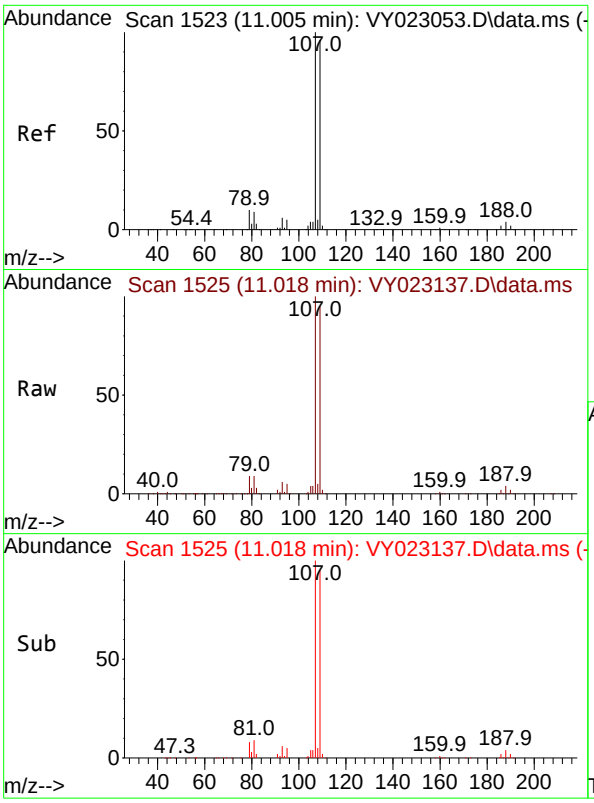


#60
Dibromochloromethane
Concen: 50.963 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:129 Resp: 285374

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.5	115.5





#61
1,2-Dibromoethane
Concen: 50.411 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:107 Resp: 20107

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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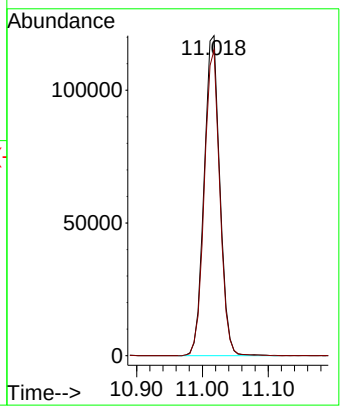
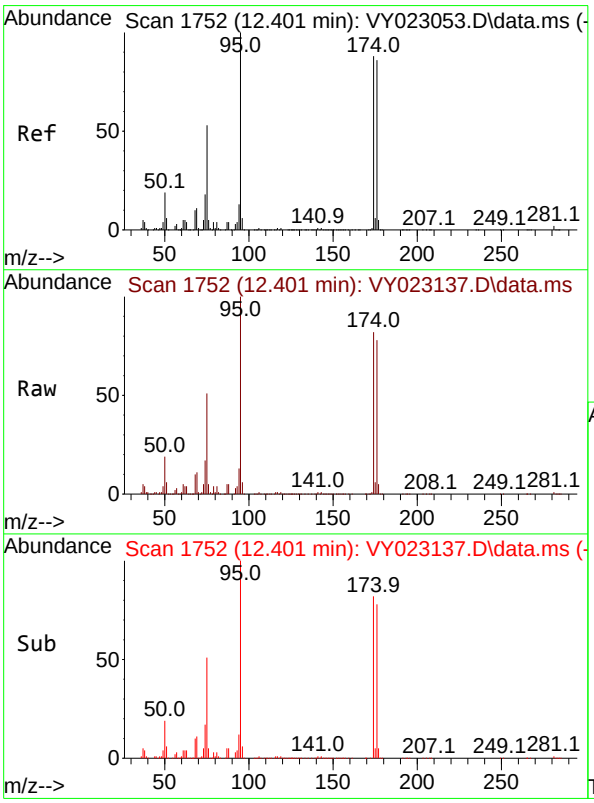
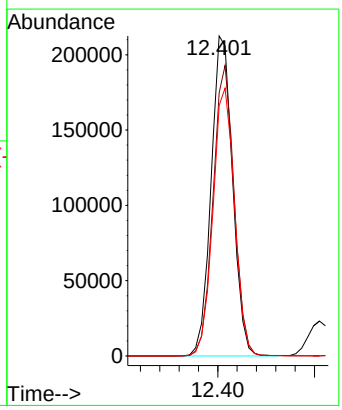


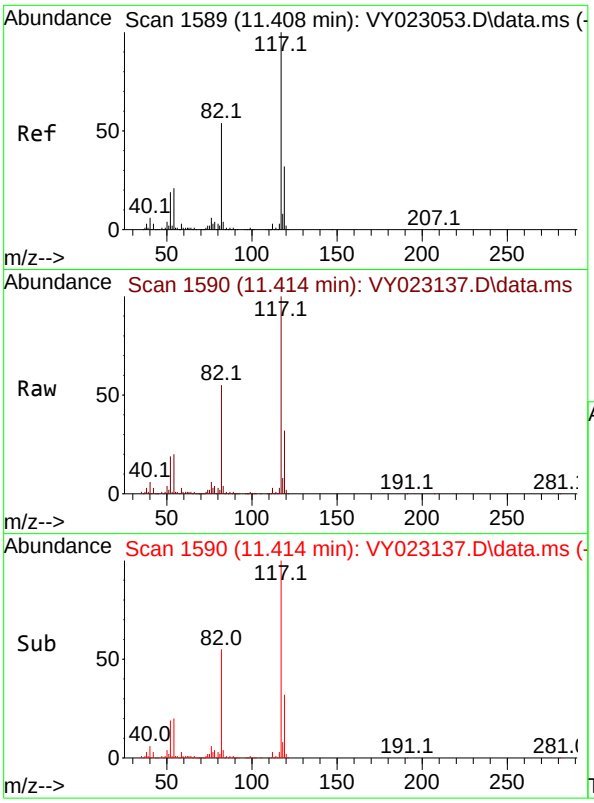


#62
4-Bromofluorobenzene
Concen: 49.618 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 95 Resp: 326827

Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	171.6
176	84.4	0.0	167.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 76178

Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.0
119	31.8	25.6	38.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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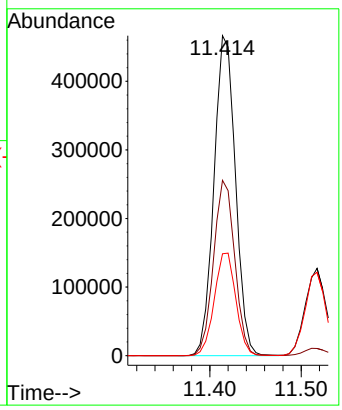
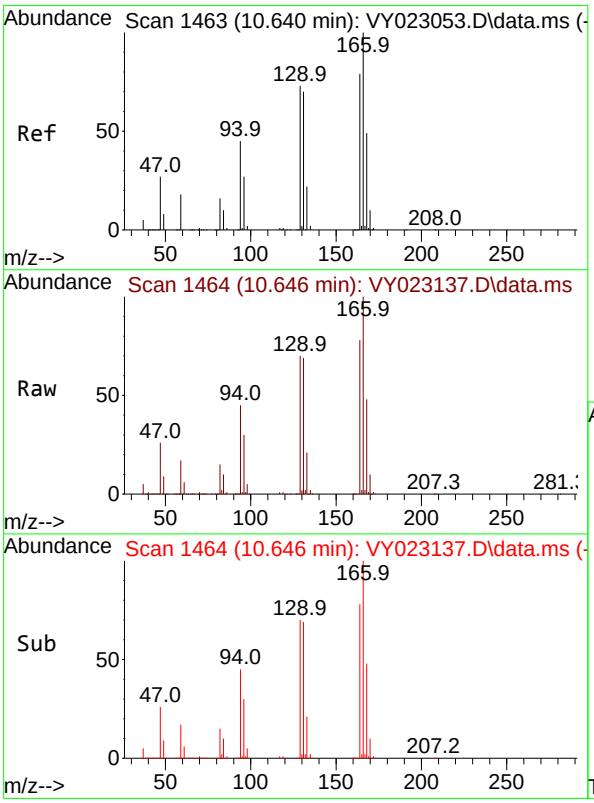
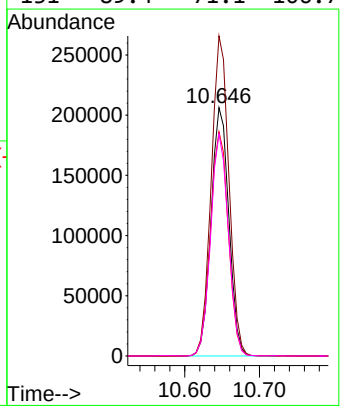


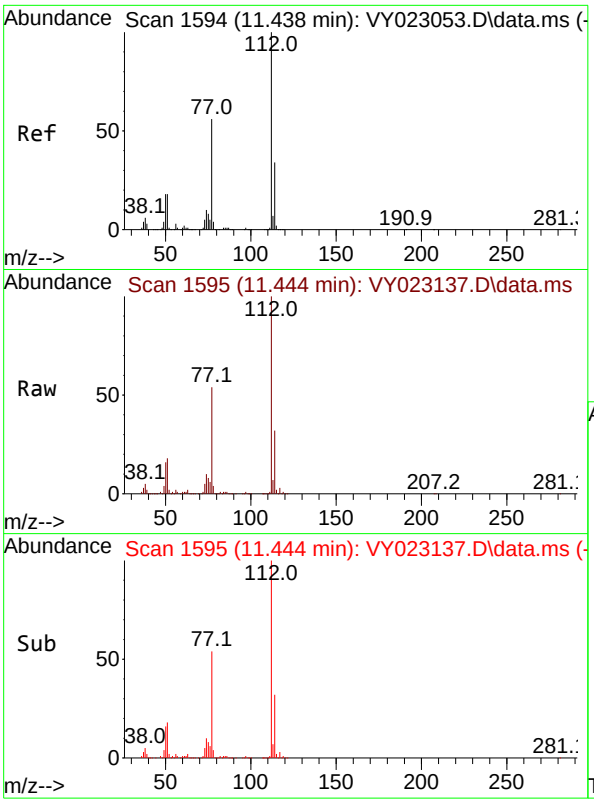


#64
Tetrachloroethene
Concen: 50.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:164 Resp: 342427

Ion	Ratio	Lower	Upper
164	100		
166	128.9	101.1	151.7
129	90.3	74.0	111.0
131	89.4	71.1	106.7

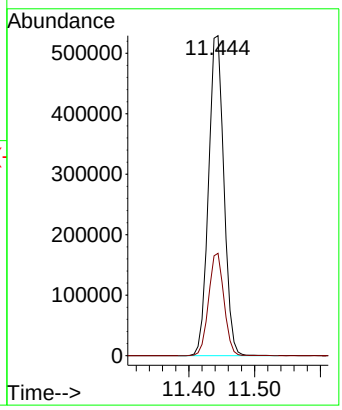




#65
Chlorobenzene
Concen: 52.238 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:112 Resp: 85836

Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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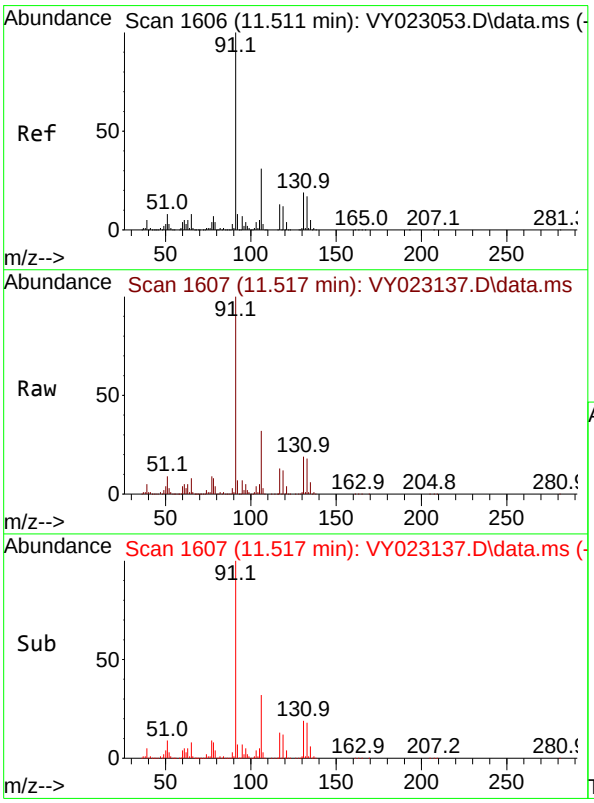
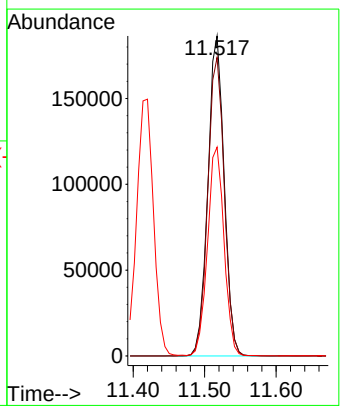
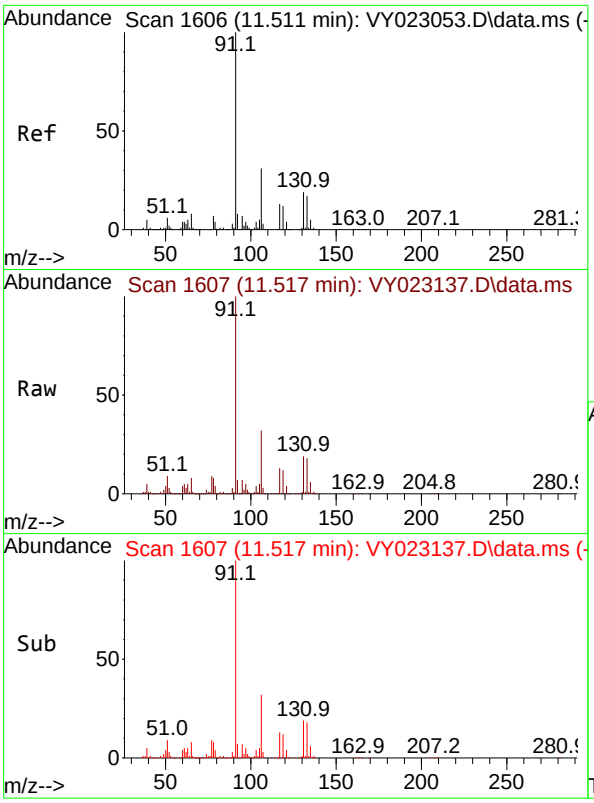


#66
1,1,1,2-Tetrachloroethane
Concen: 52.900 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:131 Resp: 295011

Ion	Ratio	Lower	Upper
131	100		
133	94.9	46.9	140.6
119	66.2	33.2	99.6

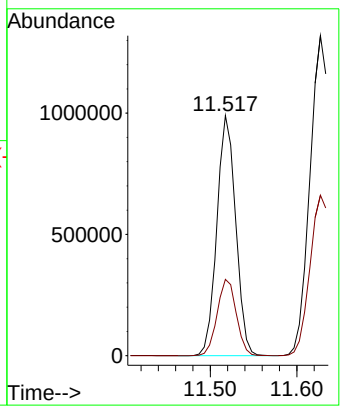




#67
Ethyl Benzene
Concen: 52.850 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 149446

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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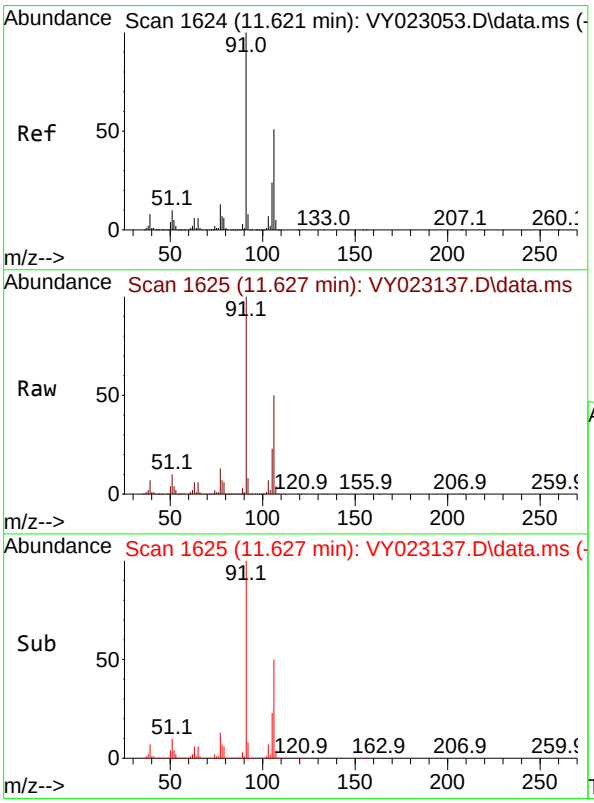
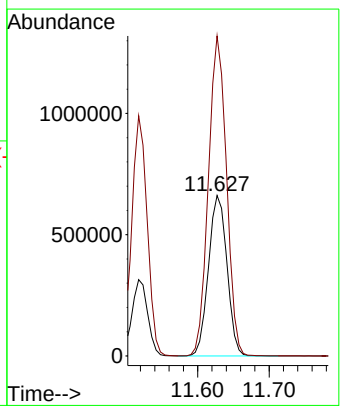
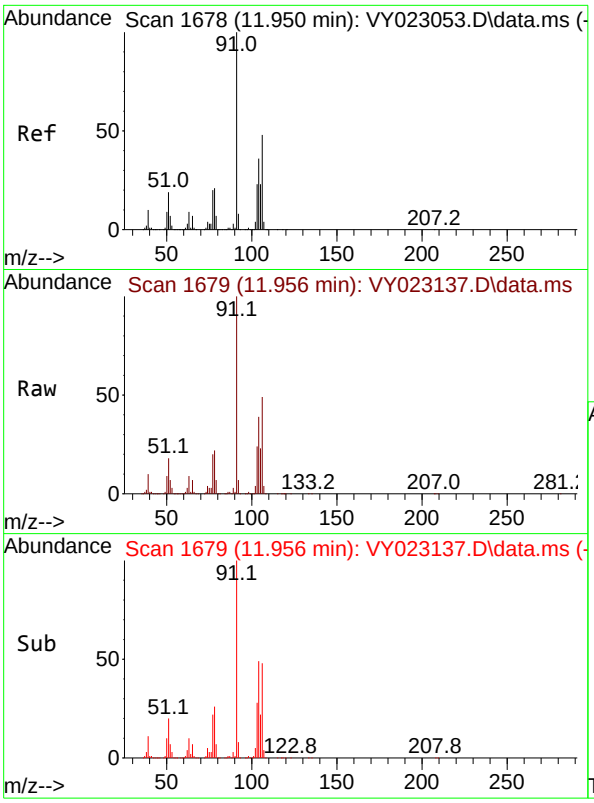


#68
m/p-Xylenes
Concen: 107.397 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 1186104

Ion	Ratio	Lower	Upper
106	100		
91	195.6	158.6	238.0





#69
o-Xylene
Concen: 53.940 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 55795

Ion	Ratio	Lower	Upper
106	100		
91	205.8	103.2	309.4

Instrument :
MSVOA_Y
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VSTDCCC050

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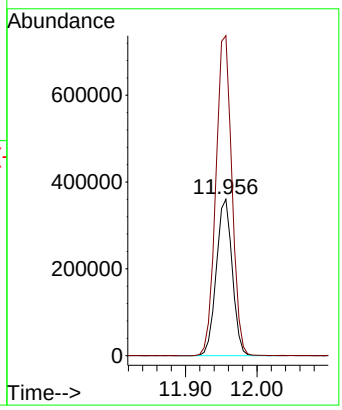
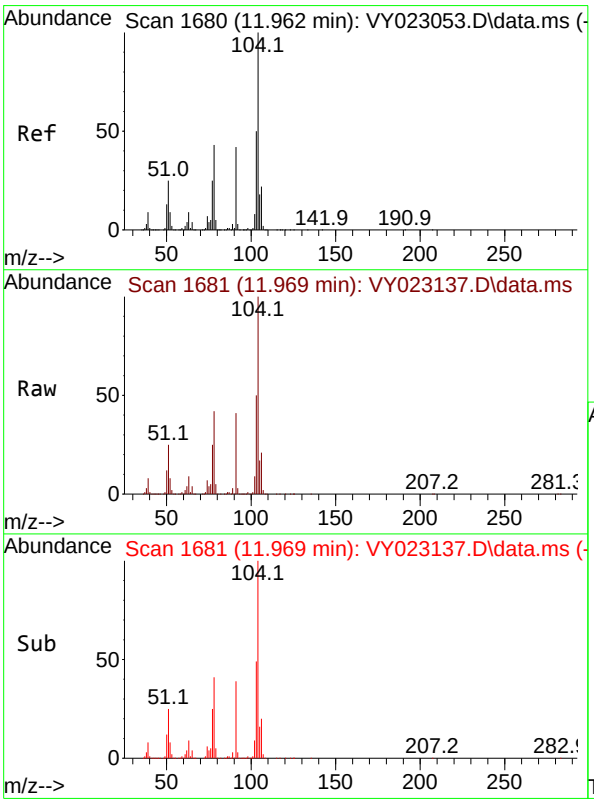
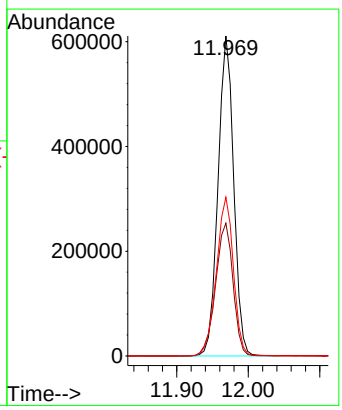


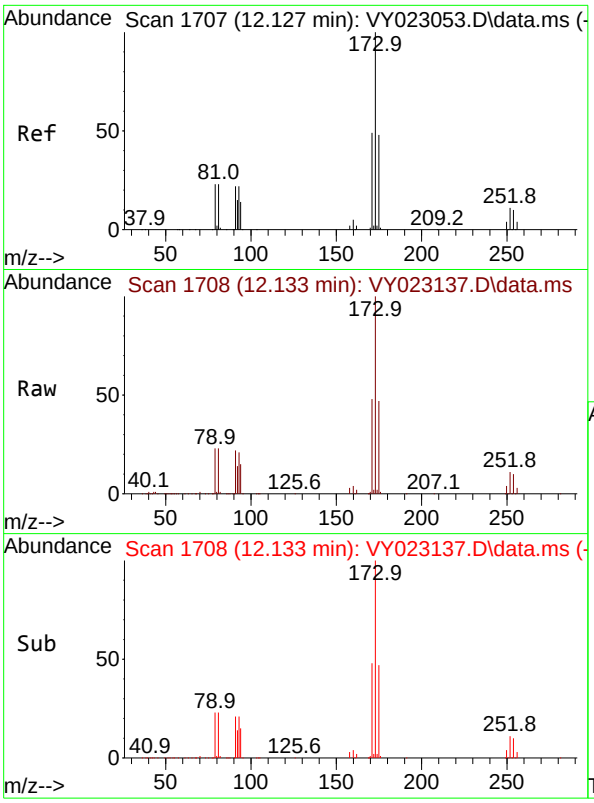


#70
Styrene
Concen: 55.007 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:104 Resp: 930498

Ion	Ratio	Lower	Upper
104	100		
78	46.3	38.5	57.7
103	54.0	43.7	65.5

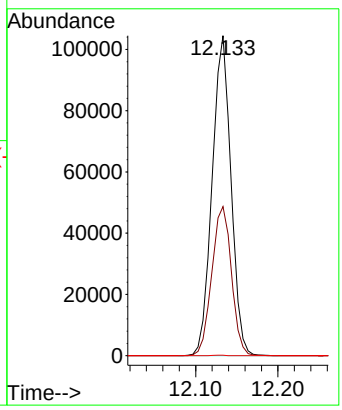




#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:173 Resp: 16629

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 08/20/2025
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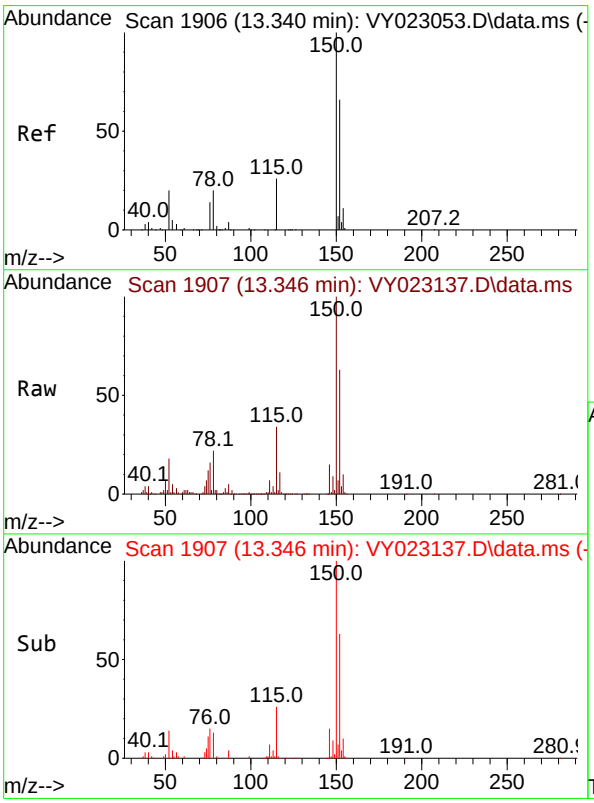
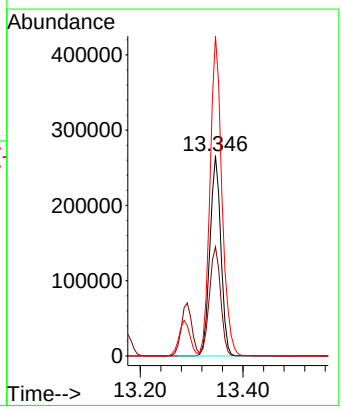
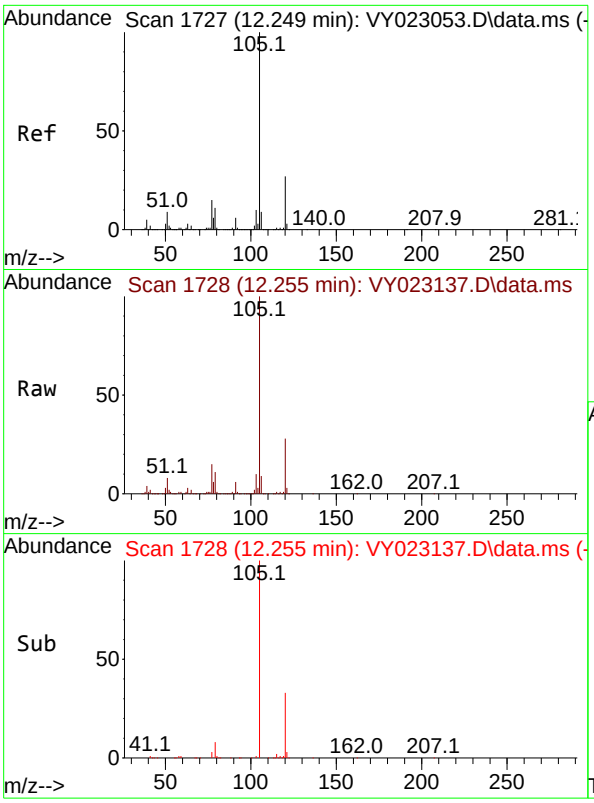


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:152 Resp: 392533

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.2	84.6
150	173.7	0.0	348.0

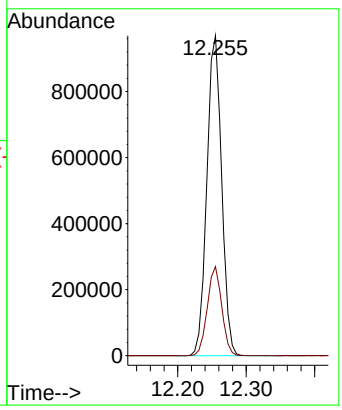




#73
Isopropylbenzene
Concen: 52.528 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 145526

Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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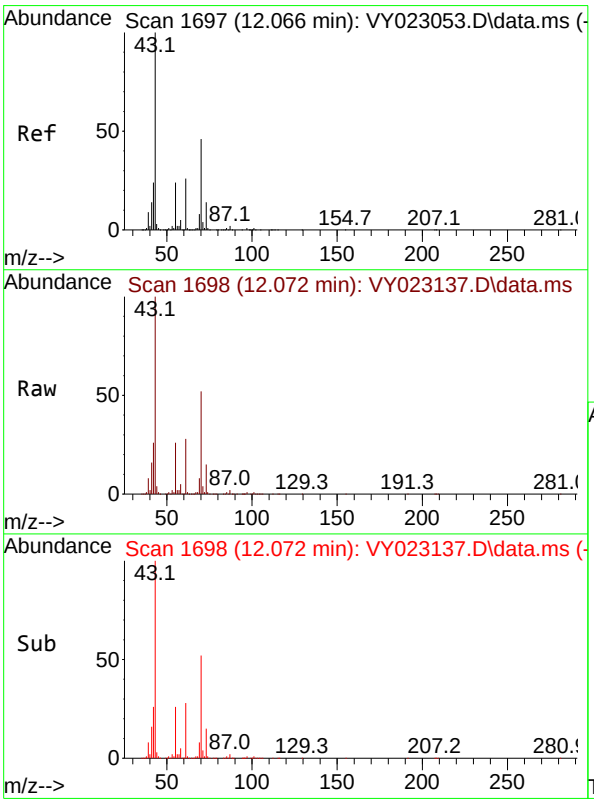
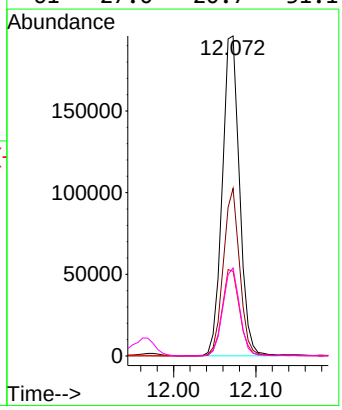
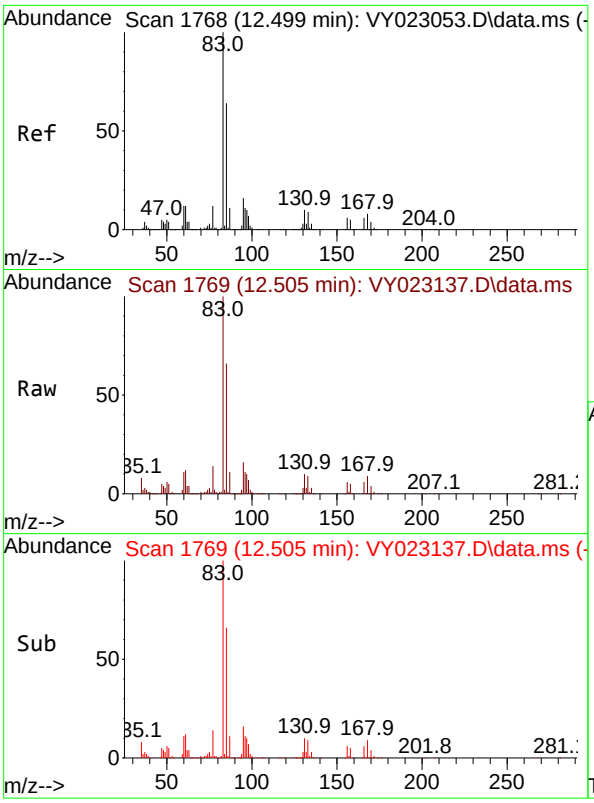


#74
N-amyl acetate
Concen: 48.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 285441

Ion	Ratio	Lower	Upper
43	100		
70	49.8	37.5	56.3
55	27.3	20.7	31.1
61	27.0	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 48.639 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 23008

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	64.3	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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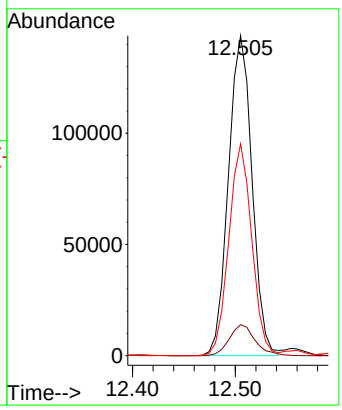
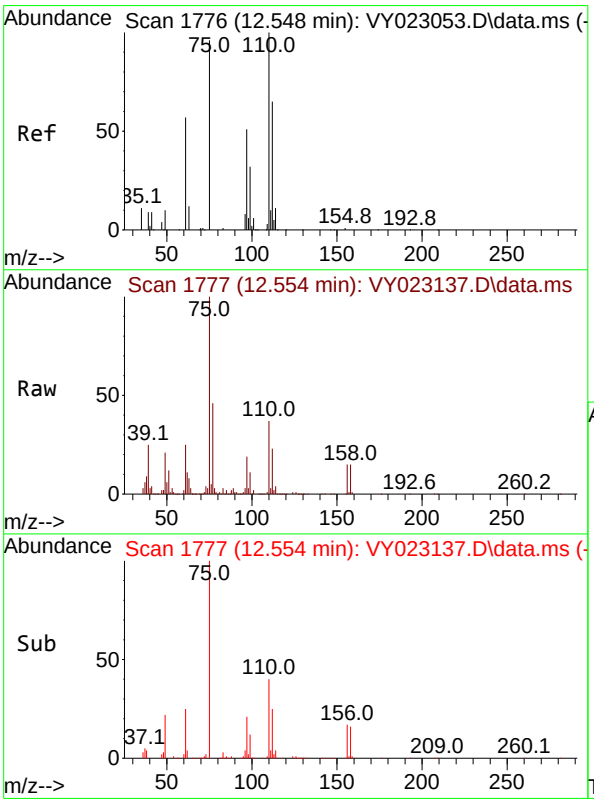
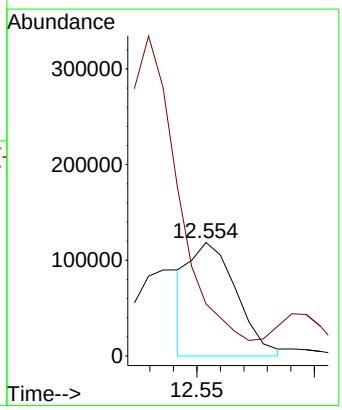


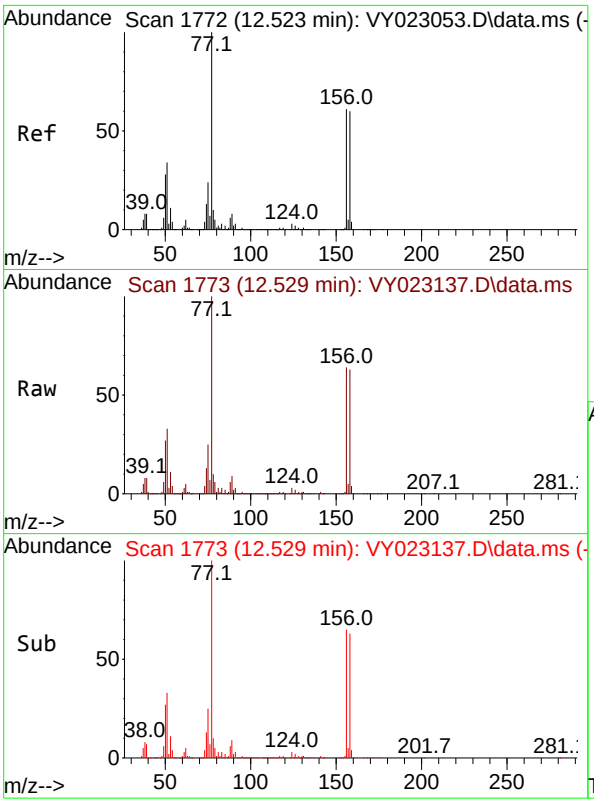


#76
1,2,3-Trichloropropane
Concen: 43.632 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 165292

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

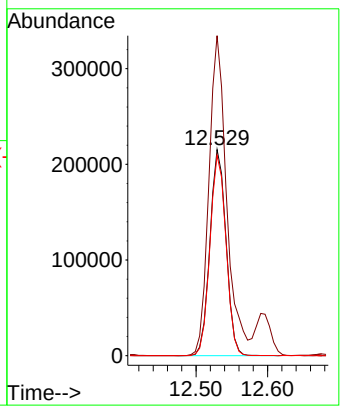




#77
Bromobenzene
Concen: 50.968 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:156 Resp: 33687

Ion	Ratio	Lower	Upper
156	100		
77	170.5	88.1	264.4
158	97.2	48.0	144.0



Instrument :
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ClientSampleId :
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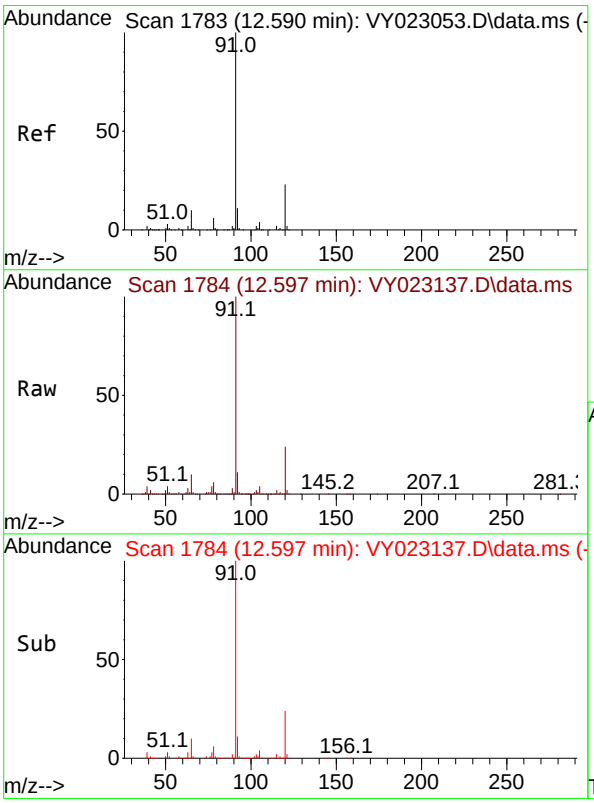
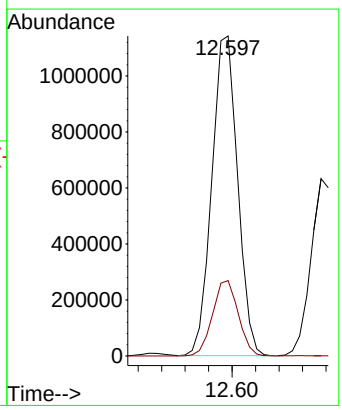
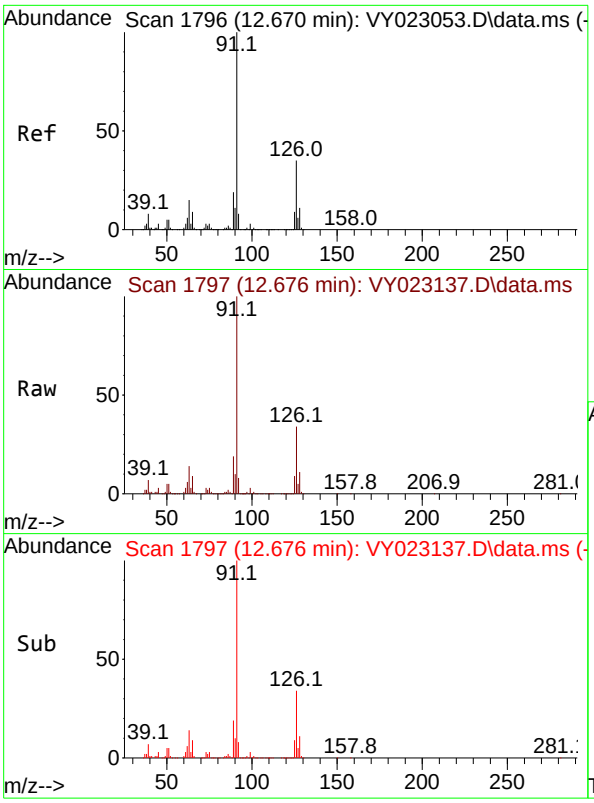


#78
n-propylbenzene
Concen: 52.806 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1741756

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5

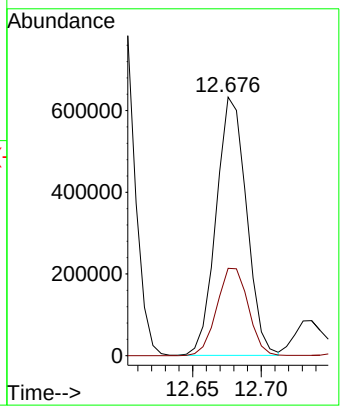




#79
2-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 97505

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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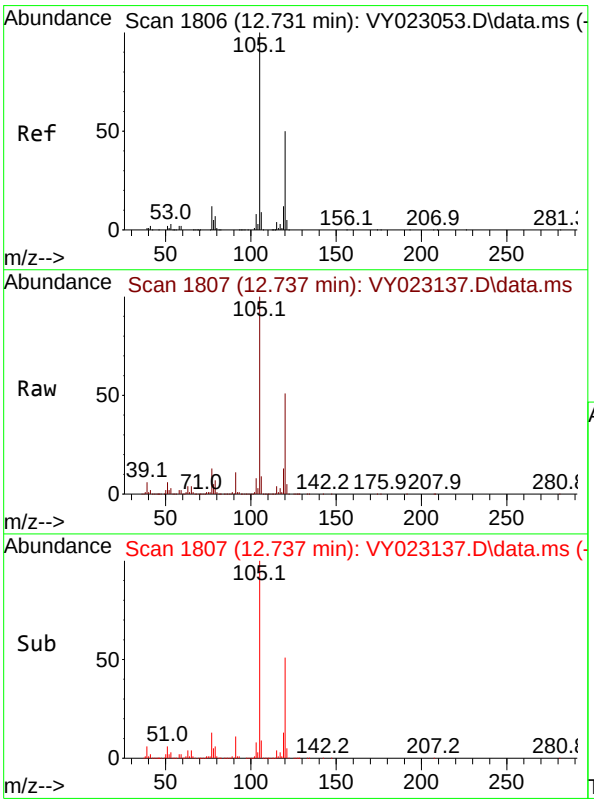
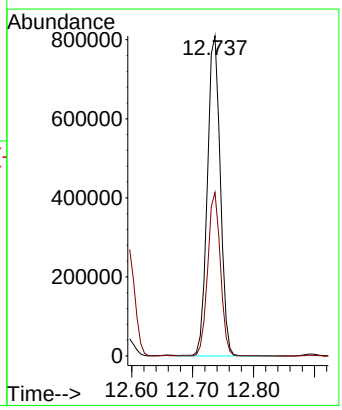
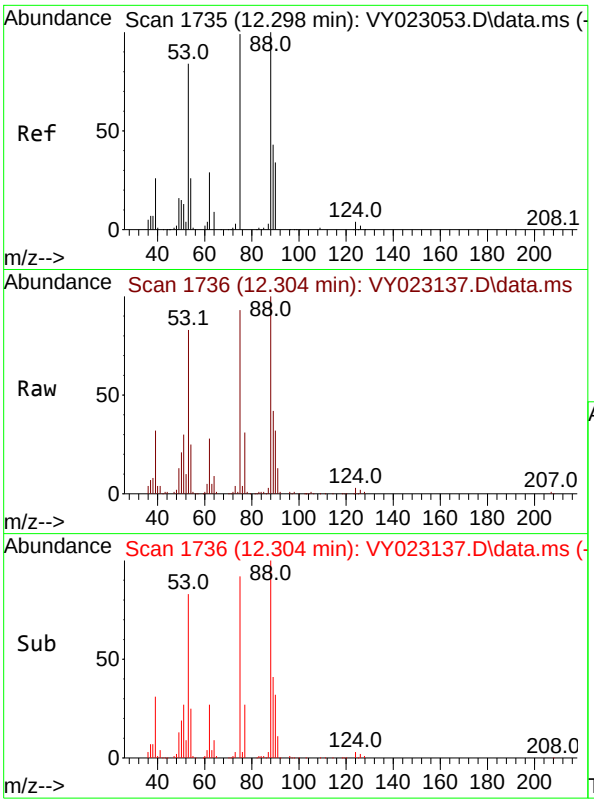


#80
1,3,5-Trimethylbenzene
Concen: 53.229 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191826

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 49.570 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 7757

Ion	Ratio	Lower	Upper
75	100		
53	89.8	70.8	106.2
89	45.4	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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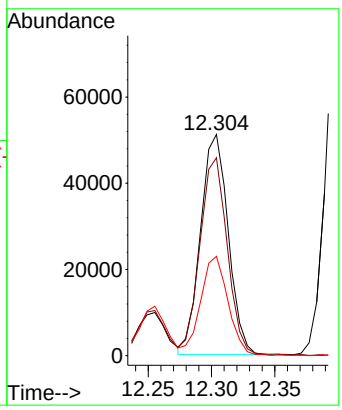
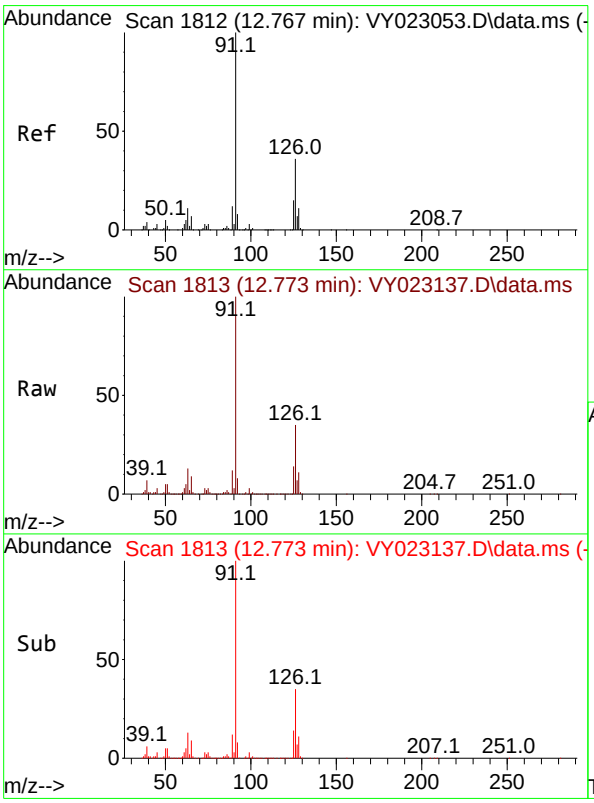
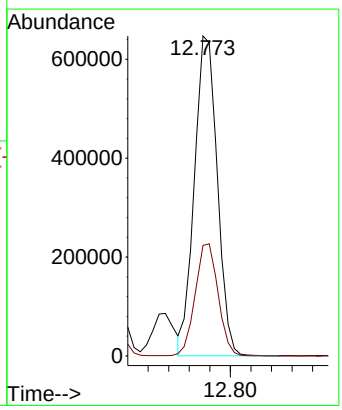


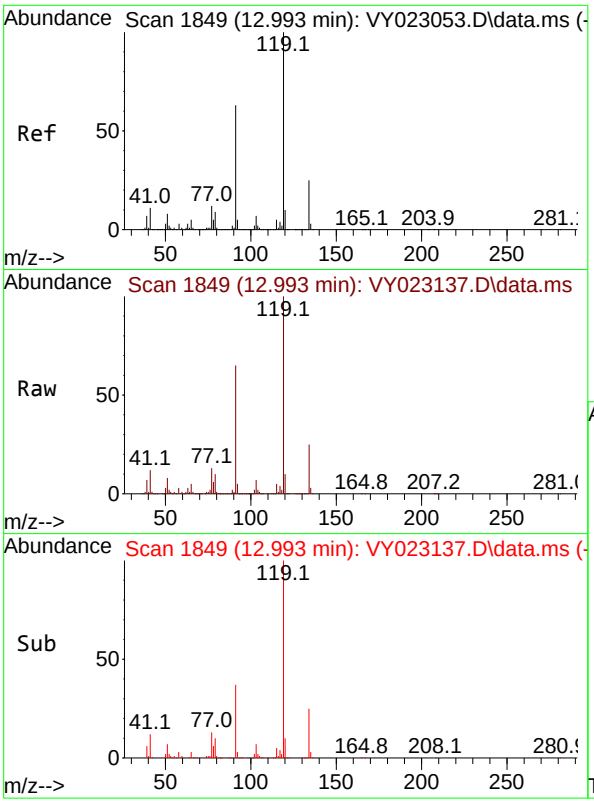


#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1000547

Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.3	52.0





#83
tert-Butylbenzene
Concen: 53.956 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:119 Resp: 109112

Ion	Ratio	Lower	Upper
119	100		
91	61.6	31.6	94.8
134	25.9	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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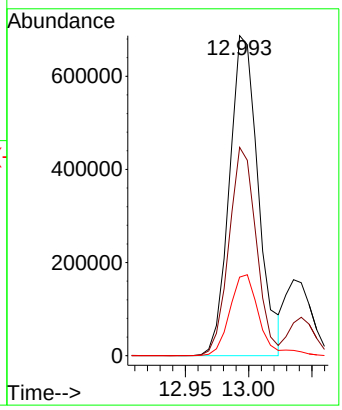
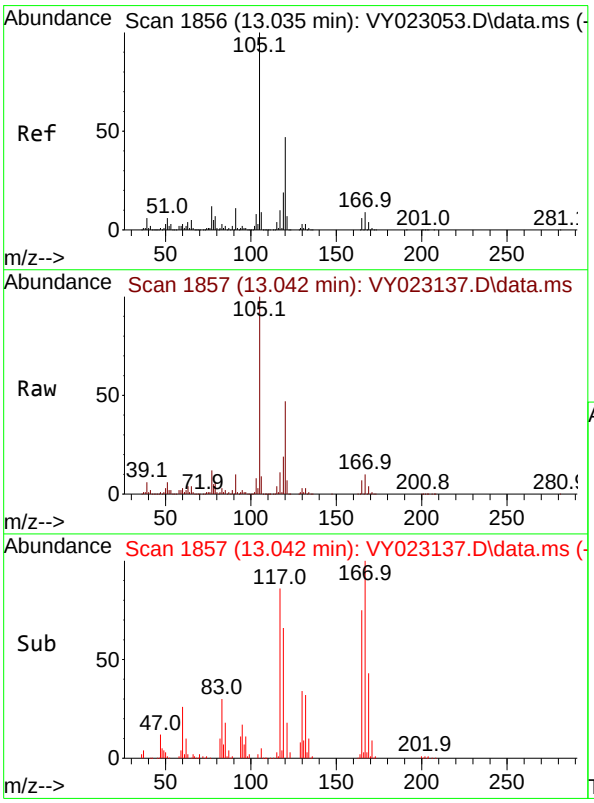
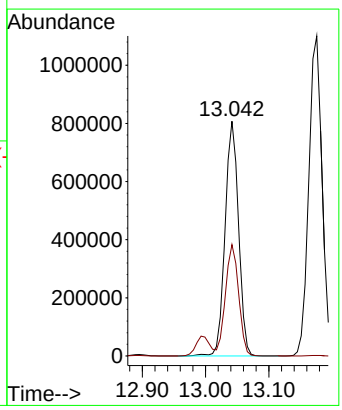


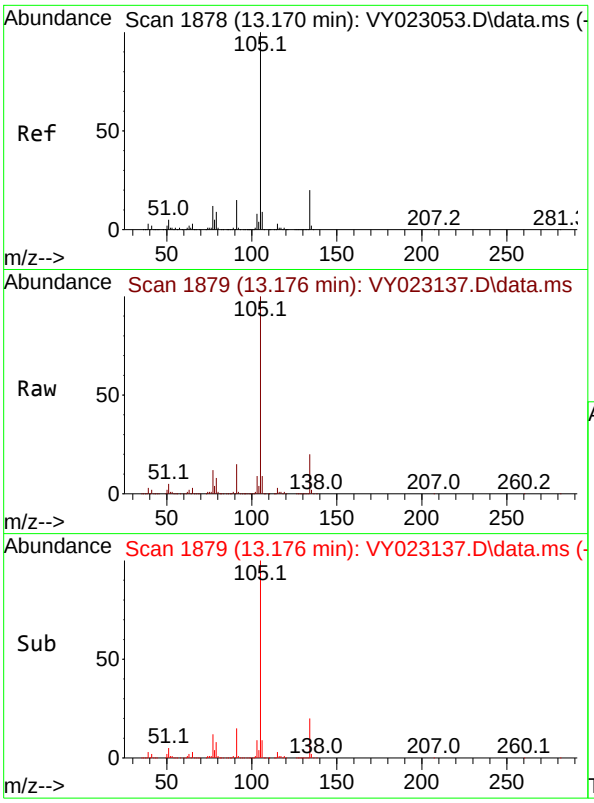


#84
1,2,4-Trimethylbenzene
Concen: 53.459 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191535

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

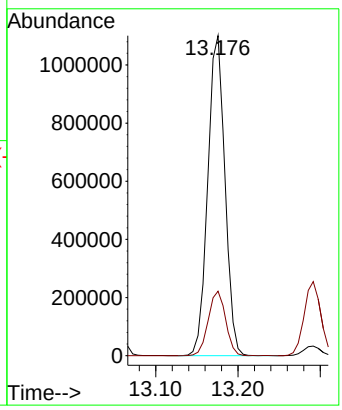




#85
sec-Butylbenzene
Concen: 53.673 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 159442

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4



Instrument :
MSVOA_Y
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VSTDCCC050

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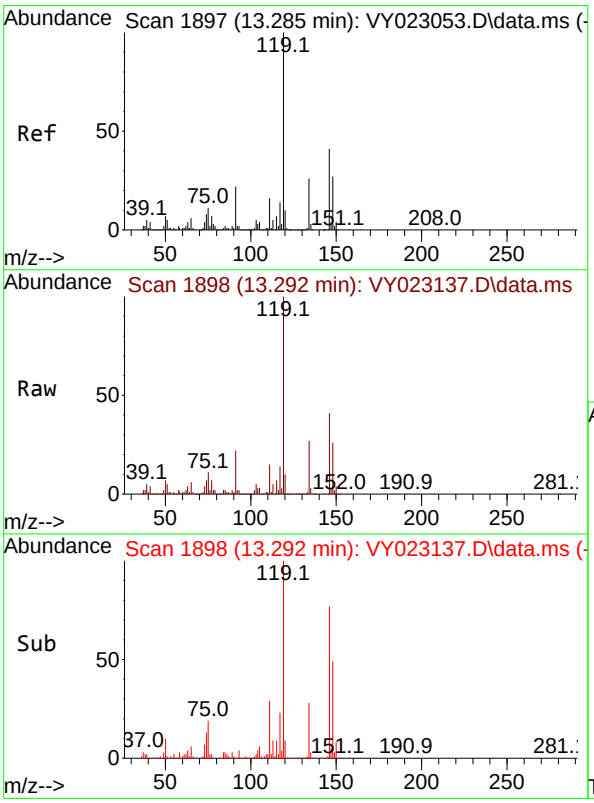
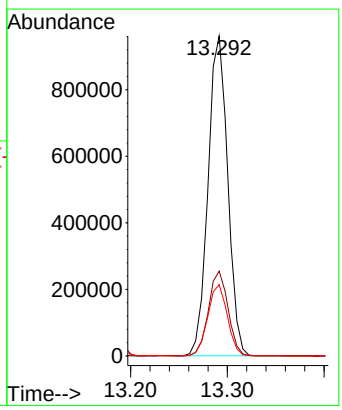
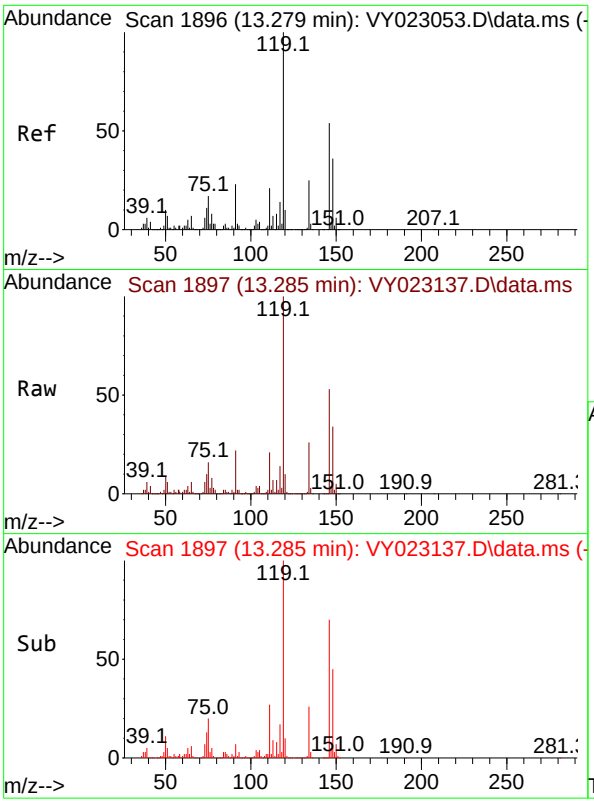


#86
p-Isopropyltoluene
Concen: 55.063 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:119 Resp: 1357746

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.6
91	22.2	11.3	33.8

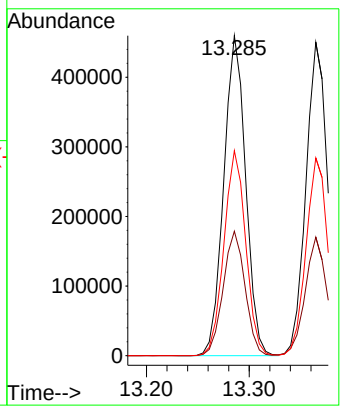




#87
1,3-Dichlorobenzene
Concen: 52.231 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 68078

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.6	58.7
148	63.7	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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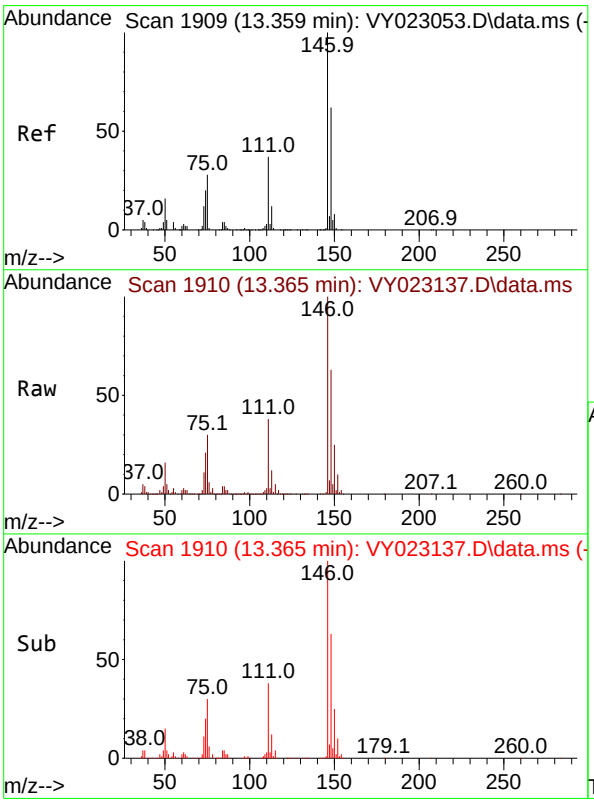
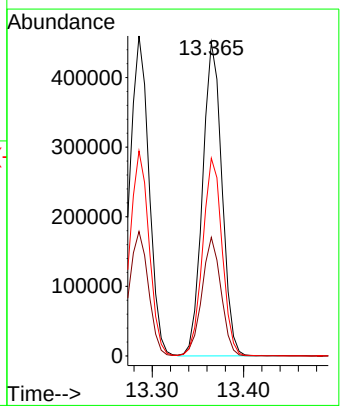
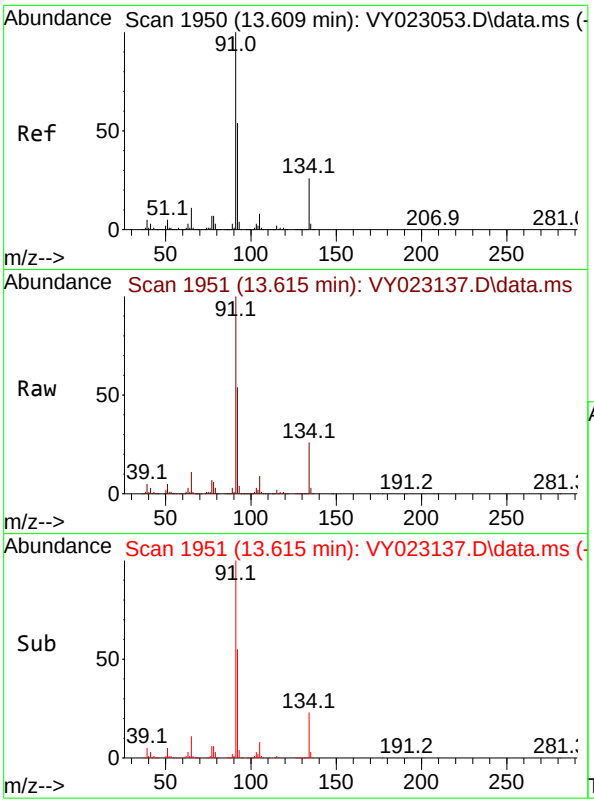


#88
1,4-Dichlorobenzene
Concen: 51.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 663039

Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.1
148	63.4	31.6	94.7

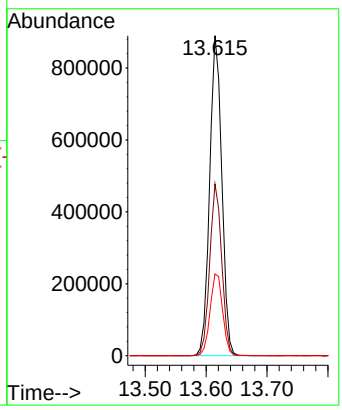




#89
n-Butylbenzene
Concen: 54.384 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 123164

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	26.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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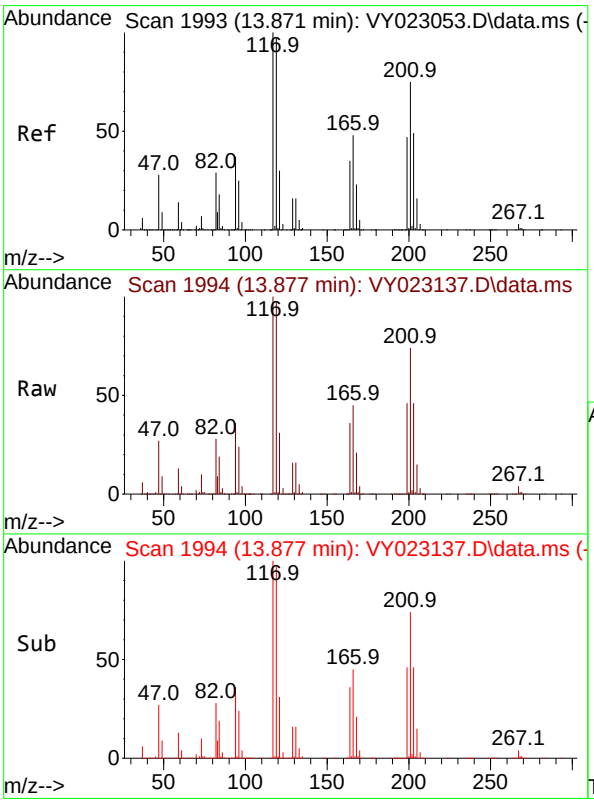
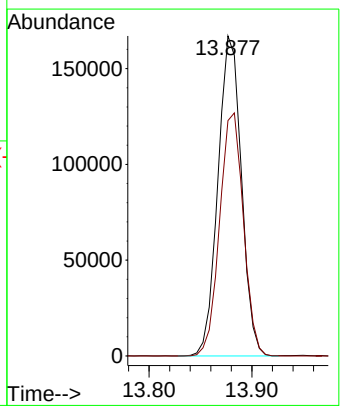
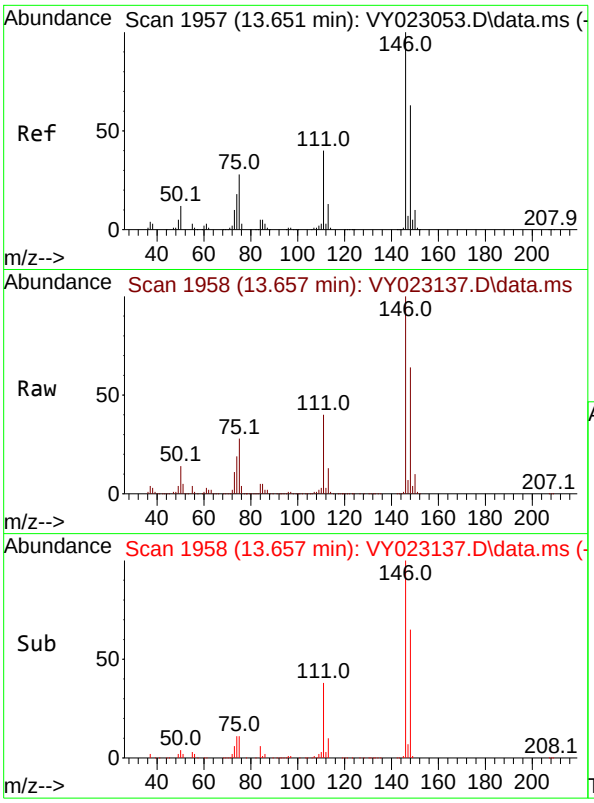


#90
Hexachloroethane
Concen: 52.354 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 264268

Ion	Ratio	Lower	Upper
117	100		
201	77.1	38.4	115.1

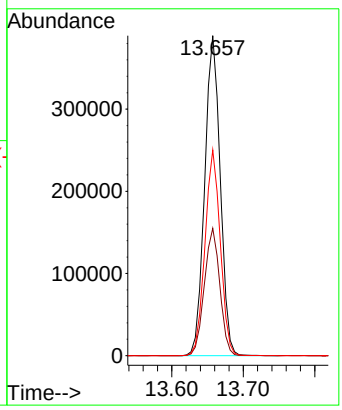




#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 58857

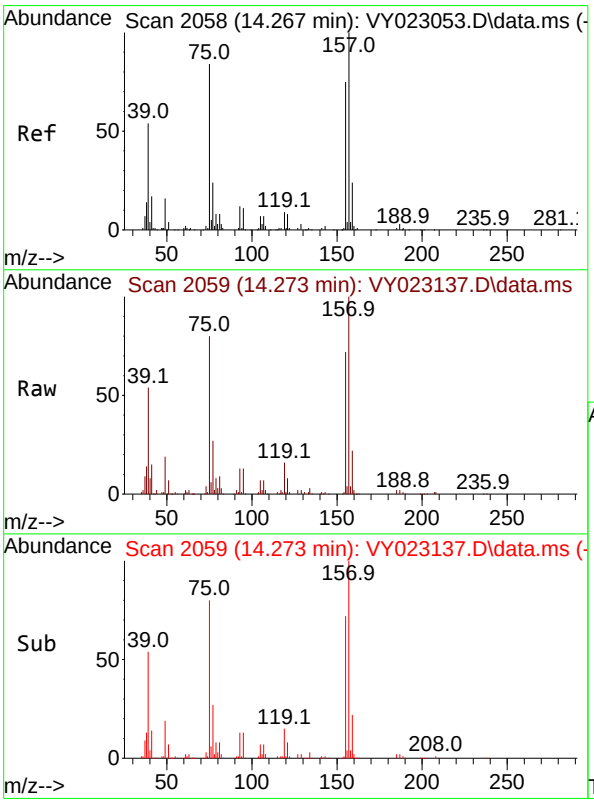
Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.3	60.8
148	63.3	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

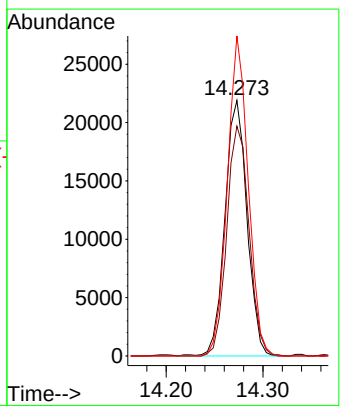
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

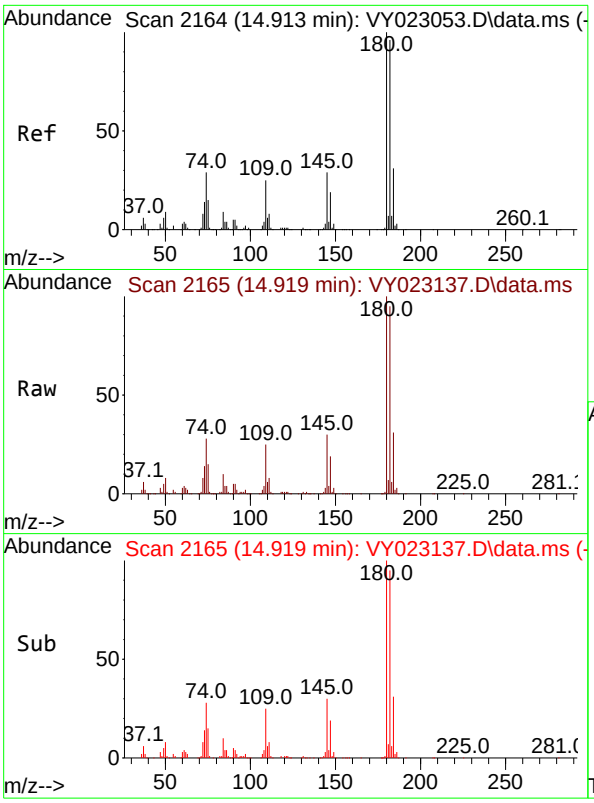


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.081 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 34676

Ion	Ratio	Lower	Upper
75	100		
155	90.7	43.9	131.6
157	118.4	57.2	171.6

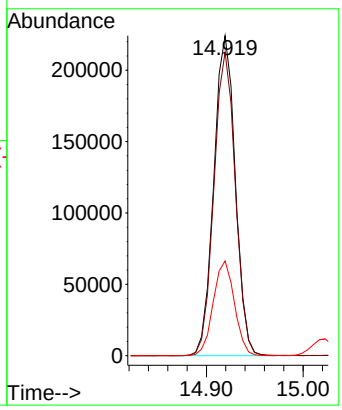




#93
1,2,4-Trichlorobenzene
Concen: 51.158 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:180 Resp: 34581

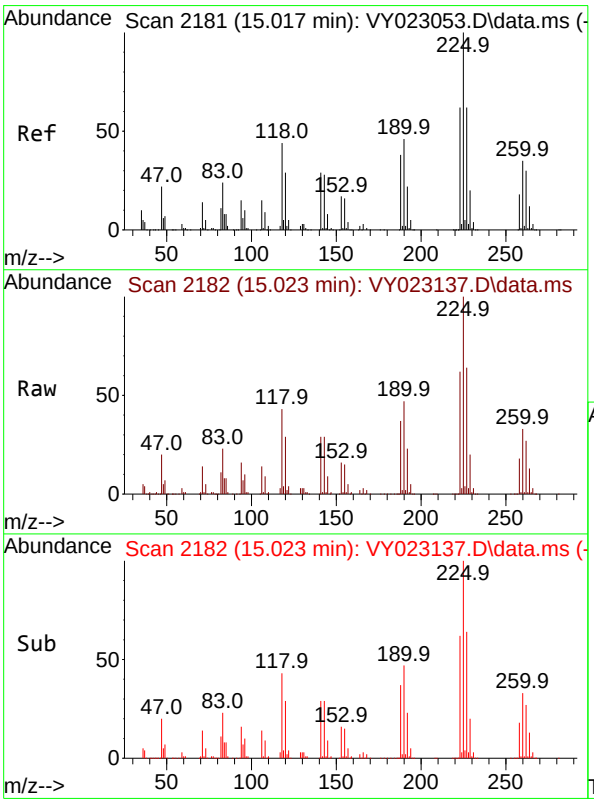
Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.8	140.4
145	29.3	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

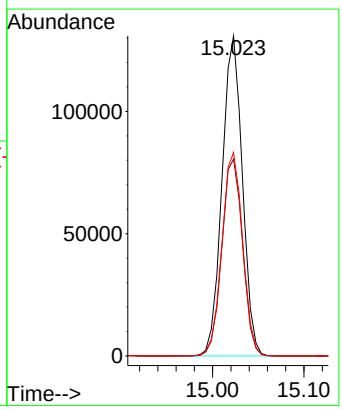
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

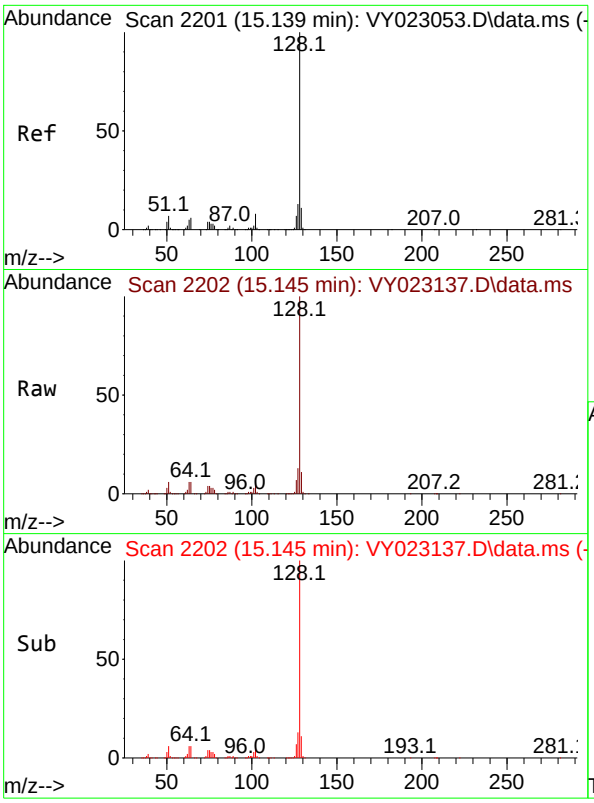


#94
Hexachlorobutadiene
Concen: 50.885 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:225 Resp: 202124

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.3	93.8
227	64.8	31.5	94.5

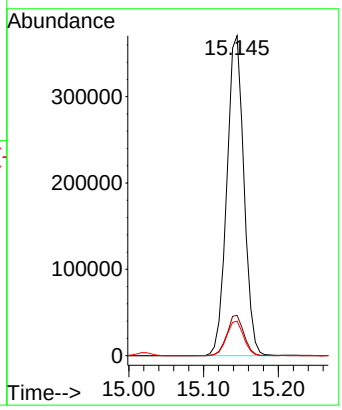




#95
Naphthalene
Concen: 51.208 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:128 Resp: 59025

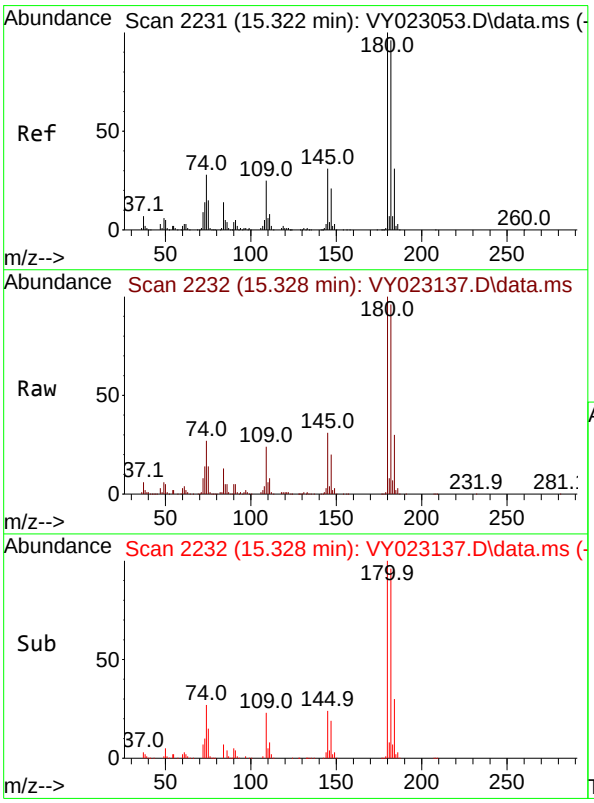
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

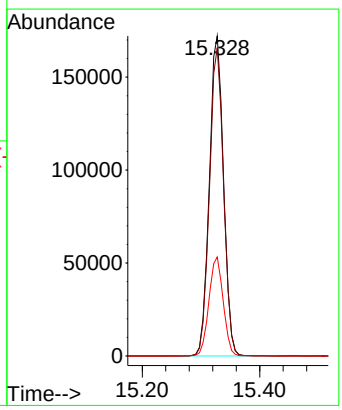
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.517 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:180 Resp: 288433

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.7
145	31.1	15.9	47.7



Sample Results: **VY023137.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	0.408	0.339	16.9	101	0.00
3	P	Chloromethane	0.661	0.565	14.5	97	0.00
4	C	Vinyl Chloride	0.817	0.743	9.1#	100	0.01
5	T	Bromomethane	0.610	0.580	4.9	111	0.00
6	T	Chloroethane	0.543	0.507	6.6	102	0.01
7	T	Trichlorofluoromethane	0.994	0.908	8.7	101	0.00
8	T	Diethyl Ether	0.263	0.242	8.0	100	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.476	2.9	107	0.01
10	T	Methyl Iodide	0.529	0.581	-9.8	110	0.01
11	T	Tert butyl alcohol	0.033	0.028	15.2	93	0.00
12	CM	1,1-Dichloroethene	0.482	0.477	1.0#	107	0.01
13	T	Acrolein	0.048	0.022	54.2#	50	0.00
14	T	Allyl chloride	0.709	0.646	8.9	98	0.00
15	T	Acrylonitrile	0.107	0.100	6.5	98	0.01
16	T	Acetone	0.103	0.113	-9.7	114	0.00
17	T	Carbon Disulfide	1.571	1.449	7.8	101	0.01
18	T	Methyl Acetate	0.307	0.263	14.3	85	0.00
19	T	Methyl tert-butyl Ether	1.249	1.212	3.0	102	0.01
20	T	Methylene Chloride	0.620	0.513	17.3	105	0.01
21	T	trans-1,2-Dichloroethene	0.541	0.535	1.1	106	0.01
22	T	Diisopropyl ether	1.541	1.473	4.4	101	0.00
23	T	Vinyl Acetate	0.852	0.820	3.8	101	0.01
24	P	1,1-Dichloroethane	0.942	0.908	3.6	103	0.01
25	T	2-Butanone	0.140	0.137	2.1	100	0.01
26	T	2,2-Dichloropropane	0.813	0.836	-2.8	110	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.626	0.0	107	0.00
28	T	Bromochloromethane	0.374	0.333	11.0	95	0.00
29	T	Tetrahydrofuran	0.087	0.079	9.2	94	0.00
30	C	Chloroform	0.971	0.958	1.3#	105	0.00
31	T	Cyclohexane	0.888	0.821	7.5	105	0.00
32	T	1,1,1-Trichloroethane	0.862	0.864	-0.2	107	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.431	9.6	97	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.299	0.292	2.3	102	0.00
36	T	1,1-Dichloropropene	0.445	0.452	-1.6	107	0.00
37	T	Ethyl Acetate	0.187	0.179	4.3	98	0.00
38	T	Carbon Tetrachloride	0.483	0.498	-3.1	109	0.00
39	T	Methylcyclohexane	0.586	0.607	-3.6	110	0.00
40	TM	Benzene	1.370	1.381	-0.8	106	0.00
41	T	Methacrylonitrile	0.108	0.101	6.5	94	0.00
42	TM	1,2-Dichloroethane	0.356	0.342	3.9	101	0.00
43	T	Isopropyl Acetate	0.378	0.353	6.6	97	0.00
44	TM	Trichloroethene	0.354	0.365	-3.1	109	0.00
45	C	1,2-Dichloropropane	0.315	0.316	-0.3#	105	0.00
46	T	Dibromomethane	0.181	0.180	0.6	103	0.00
47	T	Bromodichloromethane	0.466	0.464	0.4	103	0.00
48	T	Methyl methacrylate	0.181	0.174	3.9	95	0.00

Sample Results: **VY023137.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	96	0.00
50	S	Toluene-d8	1.169	1.150	1.6	103	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.188	3.6	96	0.00
52	CM	Toluene	0.870	0.899	-3.3#	107	0.00
53	T	t-1,3-Dichloropropene	0.422	0.431	-2.1	105	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.504	-1.0	104	0.00
55	T	1,1,2-Trichloroethane	0.242	0.243	-0.4	104	0.00
56	T	Ethyl methacrylate	0.310	0.315	-1.6	101	0.00
57	T	1,3-Dichloropropane	0.411	0.405	1.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.142	2.7	94	0.00
59	T	2-Hexanone	0.133	0.135	-1.5	101	0.00
60	T	Dibromochloromethane	0.320	0.326	-1.9	105	0.00
61	T	1,2-Dibromoethane	0.228	0.229	-0.4	104	0.01
62	S	4-Bromofluorobenzene	0.376	0.373	0.8	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.446	0.450	-0.9	105	0.00
65	PM	Chlorobenzene	1.079	1.127	-4.4	108	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.387	-5.7	109	0.00
67	C	Ethyl Benzene	1.856	1.962	-5.7#	107	0.00
68	T	m/p-Xylenes	0.725	0.779	-7.4	110	0.00
69	T	o-Xylene	0.679	0.732	-7.8	108	0.00
70	T	Styrene	1.110	1.221	-10.0	110	0.00
71	P	Bromoform	0.214	0.218	-1.9	103	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73	T	Isopropylbenzene	3.529	3.707	-5.0	110	0.00
74	T	N-amyl acetate	0.748	0.727	2.8	98	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.586	2.8	104	0.00
76	T	1,2,3-Trichloropropane	0.483	0.421	12.8	82	0.00
77	T	Bromobenzene	0.842	0.858	-1.9	108	0.00
78	T	n-propylbenzene	4.201	4.437	-5.6	109	0.00
79	T	2-Chlorotoluene	2.407	2.484	-3.2	108	0.00
80	T	1,3,5-Trimethylbenzene	2.852	3.036	-6.5	110	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.198	0.5	104	0.00
82	T	4-Chlorotoluene	2.497	2.549	-2.1	108	0.00
83	T	tert-Butylbenzene	2.576	2.780	-7.9	112	0.00
84	T	1,2,4-Trimethylbenzene	2.839	3.036	-6.9	111	0.00
85	T	sec-Butylbenzene	3.784	4.062	-7.3	112	0.00
86	T	p-Isopropyltoluene	3.141	3.459	-10.1	113	0.00
87	T	1,3-Dichlorobenzene	1.660	1.734	-4.5	112	0.00
88	T	1,4-Dichlorobenzene	1.647	1.689	-2.6	110	0.00
89	T	n-Butylbenzene	2.885	3.138	-8.8	112	0.00
90	T	Hexachloroethane	0.643	0.673	-4.7	111	0.00
91	T	1,2-Dichlorobenzene	1.456	1.499	-3.0	110	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.088	6.4	97	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.881	-2.3	108	0.00
94	T	Hexachlorobutadiene	0.506	0.515	-1.8	109	0.00
95	T	Naphthalene	1.468	1.504	-2.5	105	0.00

Sample Results: **VY023137.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.735	0.9	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VY023137.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	50.000	41.557	16.9	101	0.00
3	P	Chloromethane	50.000	42.705	14.6	97	0.00
4	C	Vinyl Chloride	50.000	45.491	9.0#	100	0.01
5	T	Bromomethane	50.000	47.481	5.0	111	0.00
6	T	Chloroethane	50.000	46.683	6.6	102	0.01
7	T	Trichlorofluoromethane	50.000	45.708	8.6	101	0.00
8	T	Diethyl Ether	50.000	46.102	7.8	100	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.569	2.9	107	0.01
10	T	Methyl Iodide	50.000	54.916	-9.8	110	0.01
11	T	Tert butyl alcohol	250.000	218.191	12.7	93	0.00
12	CM	1,1-Dichloroethene	50.000	49.491	1.0#	107	0.01
13	T	Acrolein	250.000	113.207	54.7#	50	0.00
14	T	Allyl chloride	50.000	45.563	8.9	98	0.00
15	T	Acrylonitrile	250.000	233.725	6.5	98	0.01
16	T	Acetone	250.000	273.812	-9.5	114	0.00
17	T	Carbon Disulfide	50.000	46.117	7.8	101	0.01
18	T	Methyl Acetate	50.000	42.821	14.4	85	0.00
19	T	Methyl tert-butyl Ether	50.000	48.545	2.9	102	0.01
20	T	Methylene Chloride	50.000	47.727	4.5	105	0.01
21	T	trans-1,2-Dichloroethene	50.000	49.404	1.2	106	0.01
22	T	Diisopropyl ether	50.000	47.793	4.4	101	0.00
23	T	Vinyl Acetate	250.000	240.761	3.7	101	0.01
24	P	1,1-Dichloroethane	50.000	48.199	3.6	103	0.01
25	T	2-Butanone	250.000	244.351	2.3	100	0.01
26	T	2,2-Dichloropropane	50.000	51.414	-2.8	110	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.042	-0.1	107	0.00
28	T	Bromochloromethane	50.000	44.509	11.0	95	0.00
29	T	Tetrahydrofuran	250.000	226.737	9.3	94	0.00
30	C	Chloroform	50.000	49.287	1.4#	105	0.00
31	T	Cyclohexane	50.000	46.269	7.5	105	0.00
32	T	1,1,1-Trichloroethane	50.000	50.106	-0.2	107	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.256	9.5	97	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	48.854	2.3	102	0.00
36	T	1,1-Dichloropropene	50.000	50.818	-1.6	107	0.00
37	T	Ethyl Acetate	50.000	48.006	4.0	98	0.00
38	T	Carbon Tetrachloride	50.000	51.581	-3.2	109	0.00
39	T	Methylcyclohexane	50.000	51.832	-3.7	110	0.00
40	TM	Benzene	50.000	50.401	-0.8	106	0.00
41	T	Methacrylonitrile	50.000	46.765	6.5	94	0.00
42	TM	1,2-Dichloroethane	50.000	48.044	3.9	101	0.00
43	T	Isopropyl Acetate	50.000	46.703	6.6	97	0.00
44	TM	Trichloroethene	50.000	51.463	-2.9	109	0.00
45	C	1,2-Dichloropropane	50.000	50.044	-0.1#	105	0.00
46	T	Dibromomethane	50.000	49.637	0.7	103	0.00
47	T	Bromodichloromethane	50.000	49.781	0.4	103	0.00
48	T	Methyl methacrylate	50.000	48.023	4.0	95	0.00

Sample Results: **VY023137.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	934.713	6.5	96	0.00
50	S	Toluene-d8	50.000	49.217	1.6	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	240.906	3.6	96	0.00
52	CM	Toluene	50.000	51.669	-3.3#	107	0.00
53	T	t-1,3-Dichloropropene	50.000	51.112	-2.2	105	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.516	-1.0	104	0.00
55	T	1,1,2-Trichloroethane	50.000	50.206	-0.4	104	0.00
56	T	Ethyl methacrylate	50.000	50.859	-1.7	101	0.00
57	T	1,3-Dichloropropane	50.000	49.273	1.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	242.835	2.9	94	0.00
59	T	2-Hexanone	250.000	254.865	-1.9	101	0.00
60	T	Dibromochloromethane	50.000	50.963	-1.9	105	0.00
61	T	1,2-Dibromoethane	50.000	50.411	-0.8	104	0.01
62	S	4-Bromofluorobenzene	50.000	49.618	0.8	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	50.340	-0.7	105	0.00
65	PM	Chlorobenzene	50.000	52.238	-4.5	108	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.900	-5.8	109	0.00
67	C	Ethyl Benzene	50.000	52.850	-5.7#	107	0.00
68	T	m/p-Xylenes	100.000	107.397	-7.4	110	0.00
69	T	o-Xylene	50.000	53.940	-7.9	108	0.00
70	T	Styrene	50.000	55.007	-10.0	110	0.00
71	P	Bromoform	50.000	51.022	-2.0	103	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73	T	Isopropylbenzene	50.000	52.528	-5.1	110	0.00
74	T	N-amyl acetate	50.000	48.584	2.8	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.639	2.7	104	0.00
76	T	1,2,3-Trichloropropane	50.000	43.632	12.7	82	0.00
77	T	Bromobenzene	50.000	50.968	-1.9	108	0.00
78	T	n-propylbenzene	50.000	52.806	-5.6	109	0.00
79	T	2-Chlorotoluene	50.000	51.594	-3.2	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.229	-6.5	110	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.570	0.9	104	0.00
82	T	4-Chlorotoluene	50.000	51.036	-2.1	108	0.00
83	T	tert-Butylbenzene	50.000	53.956	-7.9	112	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.459	-6.9	111	0.00
85	T	sec-Butylbenzene	50.000	53.673	-7.3	112	0.00
86	T	p-Isopropyltoluene	50.000	55.063	-10.1	113	0.00
87	T	1,3-Dichlorobenzene	50.000	52.231	-4.5	112	0.00
88	T	1,4-Dichlorobenzene	50.000	51.281	-2.6	110	0.00
89	T	n-Butylbenzene	50.000	54.384	-8.8	112	0.00
90	T	Hexachloroethane	50.000	52.354	-4.7	111	0.00
91	T	1,2-Dichlorobenzene	50.000	51.489	-3.0	110	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.081	5.8	97	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.158	-2.3	108	0.00
94	T	Hexachlorobutadiene	50.000	50.885	-1.8	109	0.00
95	T	Naphthalene	50.000	51.208	-2.4	105	0.00

Sample Results: **VY023137.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.517	1.0	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023160.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/19/2025 19:08
Lab File ID: VY023160.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.320		-21.57	50
Chloromethane	0.661	0.610	0.1	-7.72	50
Vinyl Chloride	0.817	0.782		-4.28	50
Bromomethane	0.610	0.614		0.66	50
Chloroethane	0.543	0.553		1.84	50
Trichlorofluoromethane	0.994	0.893		-10.16	50
1,1,2-Trichlorotrifluoroethane	0.490	0.442		-9.8	50
1,1-Dichloroethene	0.482	0.454		-5.81	50
Acetone	0.103	0.077		-25.24	50
Carbon Disulfide	1.571	1.447		-7.89	50
Methyl tert-butyl Ether	1.249	1.186		-5.04	50
Methyl Acetate	0.307	0.309		0.65	50
Methylene Chloride	0.620	0.539		-13.06	50
trans-1,2-Dichloroethene	0.541	0.543		0.37	50
1,1-Dichloroethane	0.942	0.933	0.1	-0.95	50
Cyclohexane	0.888	0.746		-15.99	50
2-Butanone	0.140	0.118		-15.71	50
Carbon Tetrachloride	0.483	0.470		-2.69	50
cis-1,2-Dichloroethene	0.626	0.631		0.8	50
Bromochloromethane	0.374	0.372		-0.54	50
Chloroform	0.971	0.985		1.44	50
1,1,1-Trichloroethane	0.862	0.852		-1.16	50
Methylcyclohexane	0.586	0.534		-8.87	50
Benzene	1.370	1.375		0.37	50
1,2-Dichloroethane	0.356	0.348		-2.25	50
Trichloroethene	0.354	0.367		3.67	50
1,2-Dichloropropane	0.315	0.314		-0.32	50
Bromodichloromethane	0.466	0.472		1.29	50
4-Methyl-2-Pentanone	0.195	0.181		-7.18	50
Toluene	0.870	0.891		2.41	50
t-1,3-Dichloropropene	0.422	0.407		-3.56	50
cis-1,3-Dichloropropene	0.499	0.486		-2.61	50
1,1,2-Trichloroethane	0.242	0.243		0.41	50
2-Hexanone	0.133	0.120		-9.77	50
Dibromochloromethane	0.320	0.328		2.5	50
1,2-Dibromoethane	0.228	0.226		-0.88	50
Tetrachloroethene	0.446	0.501		12.33	50
Chlorobenzene	1.079	1.088	0.3	0.83	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023160.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2820
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/19/2025 19:08
Lab File ID: VY023160.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	1.889		1.78	50
m/p-Xylenes	0.725	0.747		3.03	50
o-Xylene	0.679	0.703		3.54	50
Styrene	1.110	1.180		6.31	50
Bromoform	0.214	0.210	0.1	-1.87	50
Isopropylbenzene	3.529	3.482		-1.33	50
1,1,2,2-Tetrachloroethane	0.603	0.519	0.3	-13.93	50
1,3-Dichlorobenzene	1.660	1.648		-0.72	50
1,4-Dichlorobenzene	1.647	1.601		-2.79	50
1,2-Dichlorobenzene	1.456	1.432		-1.65	50
1,2-Dibromo-3-Chloropropane	0.094	0.084		-10.64	50
1,2,4-Trichlorobenzene	0.861	0.784		-8.94	50
1,2,3-Trichlorobenzene	0.742	0.672		-9.43	50
1,2-Dichloroethane-d4	0.477	0.470		-1.47	50
Dibromofluoromethane	0.299	0.299		0	50
Toluene-d8	1.169	1.189		1.71	50
4-Bromofluorobenzene	0.376	0.378		0.53	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	453917	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	726912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	647238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	333557	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	213375	49.322	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.640%			
35) Dibromofluoromethane	7.634	113	217058	49.903	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.800%			
50) Toluene-d8	10.103	98	864097	50.853	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.700%			
62) 4-Bromofluorobenzene	12.401	95	274917	50.308	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	145094	39.160	ug/l	98
3) Chloromethane	2.068	50	276875	46.137	ug/l	97
4) Vinyl Chloride	2.202	62	354948	47.848	ug/l	100
5) Bromomethane	2.592	94	278901	50.342	ug/l	100
6) Chloroethane	2.732	64	250831	50.860	ug/l	100
7) Trichlorofluoromethane	3.049	101	405455	44.950	ug/l	99
8) Diethyl Ether	3.452	74	111202	46.597	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	200633	45.085	ug/l	99
10) Methyl Iodide	4.001	142	263764	54.928	ug/l	98
11) Tert butyl alcohol	4.860	59	62641	211.323	ug/l	100
12) 1,1-Dichloroethene	3.787	96	206109	47.120	ug/l	97
13) Acrolein	3.647	56	48005	110.581	ug/l	97
14) Allyl chloride	4.378	41	288345	44.800	ug/l	97
15) Acrylonitrile	5.049	53	228651	235.673	ug/l	98
16) Acetone	3.866	43	175331	187.073	ug/l	97
17) Carbon Disulfide	4.104	76	657020	46.066	ug/l	100
18) Methyl Acetate	4.385	43	140261	50.290	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	538168	47.480	ug/l	99
20) Methylene Chloride	4.610	84	244646	50.247	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	246365	50.119	ug/l	99
22) Diisopropyl ether	6.018	45	670200	47.919	ug/l	99
23) Vinyl Acetate	5.957	43	1726827	223.289	ug/l	98
24) 1,1-Dichloroethane	5.915	63	423462	49.522	ug/l	99
25) 2-Butanone	6.896	43	268264	210.456	ug/l	97
26) 2,2-Dichloropropane	6.884	77	330025	44.729	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	286353	50.390	ug/l	97
28) Bromochloromethane	7.244	49	168646	49.712	ug/l	96
29) Tetrahydrofuran	7.256	42	176959	223.965	ug/l	96
30) Chloroform	7.421	83	447102	50.699	ug/l	98
31) Cyclohexane	7.701	56	338813	42.047	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	386894	49.443	ug/l	100
36) 1,1-Dichloropropene	7.835	75	308640	47.746	ug/l	99
37) Ethyl Acetate	6.982	43	120682	44.444	ug/l	99
38) Carbon Tetrachloride	7.817	117	341297	48.612	ug/l	99
39) Methylcyclohexane	9.109	83	387997	45.580	ug/l	95
40) Benzene	8.079	78	999546	50.170	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	65626	41.877	ug/l		87
42) 1,2-Dichloroethane	8.158	62	253049	48.835	ug/l		100
43) Isopropyl Acetate	8.195	43	245293	44.694	ug/l		97
44) Trichloroethene	8.865	130	266609	51.782	ug/l		100
45) 1,2-Dichloropropane	9.140	63	228425	49.829	ug/l		99
46) Dibromomethane	9.231	93	131481	49.971	ug/l		99
47) Bromodichloromethane	9.420	83	343279	50.703	ug/l		99
48) Methyl methacrylate	9.219	41	118237	45.021	ug/l		95
49) 1,4-Dioxane	9.225	88	29199	946.444	ug/l		90
51) 4-Methyl-2-Pentanone	9.993	43	656710	231.971	ug/l		98
52) Toluene	10.170	92	647611	51.179	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	296104	48.297	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	353426	48.751	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	176672	50.180	ug/l		98
56) Ethyl methacrylate	10.438	69	217938	48.375	ug/l		98
57) 1,3-Dichloropropane	10.713	76	292293	48.952	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	551100	259.330	ug/l		98
59) 2-Hexanone	10.755	43	435049	225.681	ug/l		100
60) Dibromochloromethane	10.908	129	238623	51.365	ug/l		100
61) 1,2-Dibromoethane	11.011	107	164095	49.588	ug/l		99
64) Tetrachloroethene	10.646	164	323963	56.055	ug/l		98
65) Chlorobenzene	11.438	112	704107	50.434	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.511	131	243596	51.411	ug/l		100
67) Ethyl Benzene	11.517	91	1222605	50.888	ug/l		98
68) m/p-Xylenes	11.627	106	966978	103.051	ug/l		98
69) o-Xylene	11.950	106	455236	51.799	ug/l		99
70) Styrene	11.969	104	763639	53.132	ug/l		98
71) Bromoform	12.127	173	135638	48.980	ug/l	#	99
73) Isopropylbenzene	12.249	105	1161331	49.330	ug/l		99
74) N-amyl acetate	12.066	43	217737	43.613	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	172951	43.025	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	155632m	48.345	ug/l		
77) Bromobenzene	12.529	156	273466	48.690	ug/l		98
78) n-propylbenzene	12.590	91	1387452	49.502	ug/l		99
79) 2-Chlorotoluene	12.676	91	784149	48.829	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	954748	50.180	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	57362	43.134	ug/l		99
82) 4-Chlorotoluene	12.773	91	816232	48.995	ug/l		99
83) tert-Butylbenzene	12.993	119	857857	49.921	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	956661	50.510	ug/l		99
85) sec-Butylbenzene	13.170	105	1249164	49.485	ug/l		100
86) p-Isopropyltoluene	13.285	119	1065308	50.842	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	549837	49.644	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	534086	48.611	ug/l		99
89) n-Butylbenzene	13.615	91	957330	49.746	ug/l		99
90) Hexachloroethane	13.877	117	214503	50.008	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	477680	49.177	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	28063	44.839	ug/l		99
93) 1,2,4-Trichlorobenzene	14.913	180	261664	45.553	ug/l		98
94) Hexachlorobutadiene	15.017	225	153359	45.434	ug/l		98
95) Naphthalene	15.139	128	452211	46.168	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	224276	45.311	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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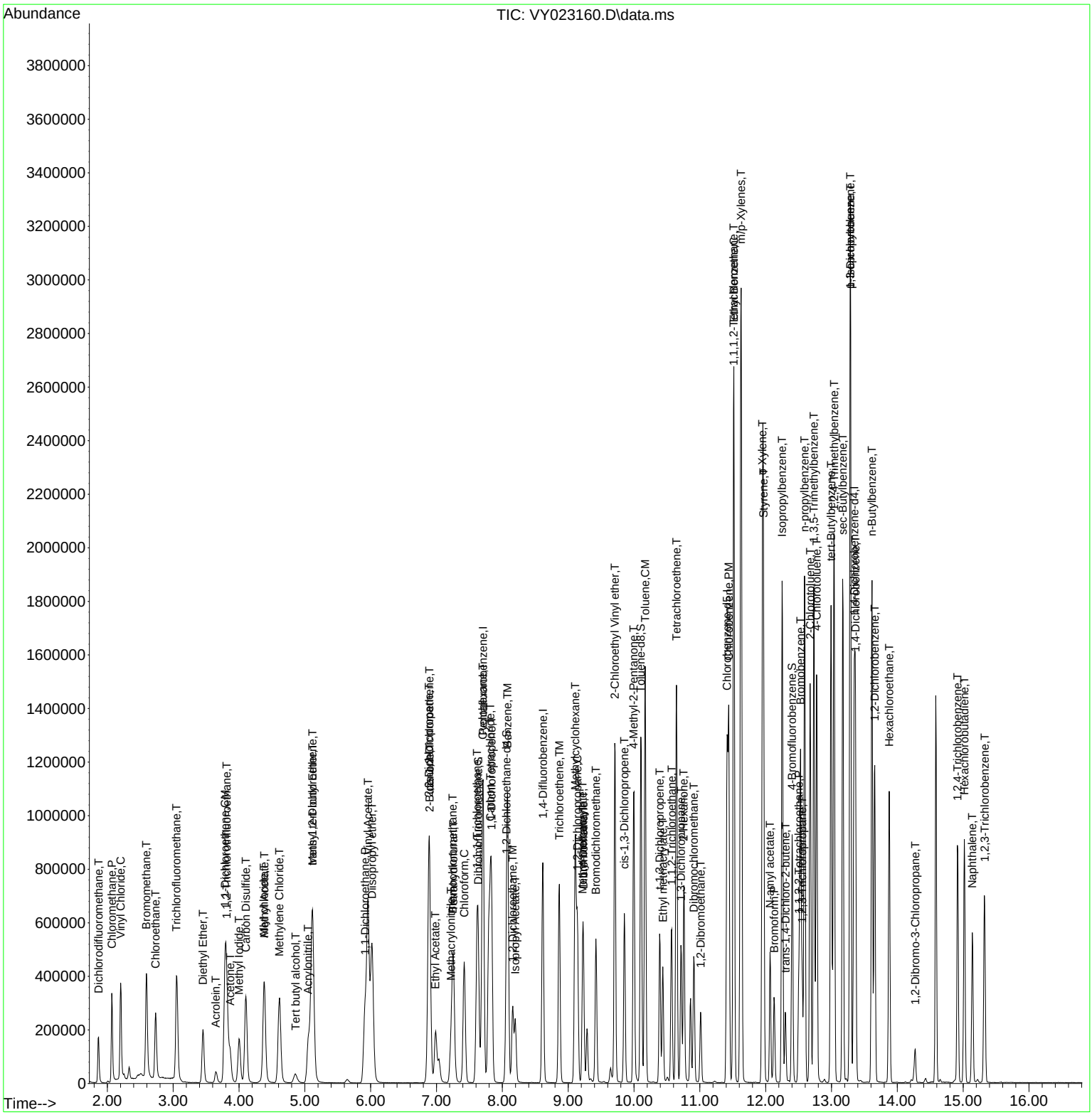
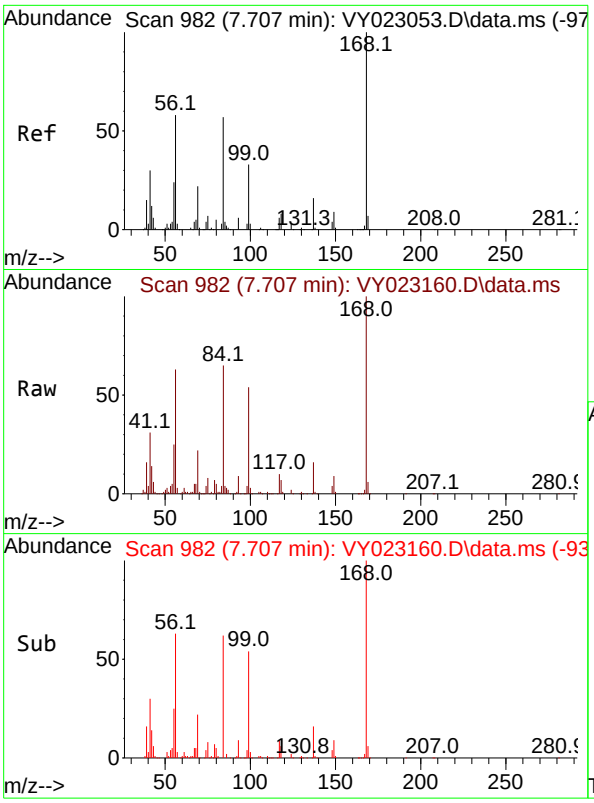
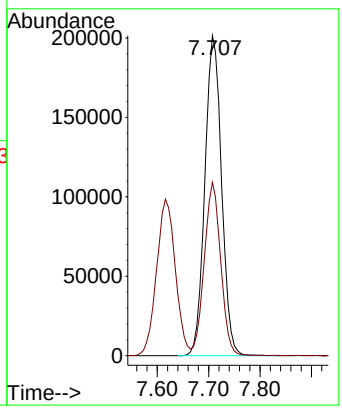




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:168 Resp: 45391

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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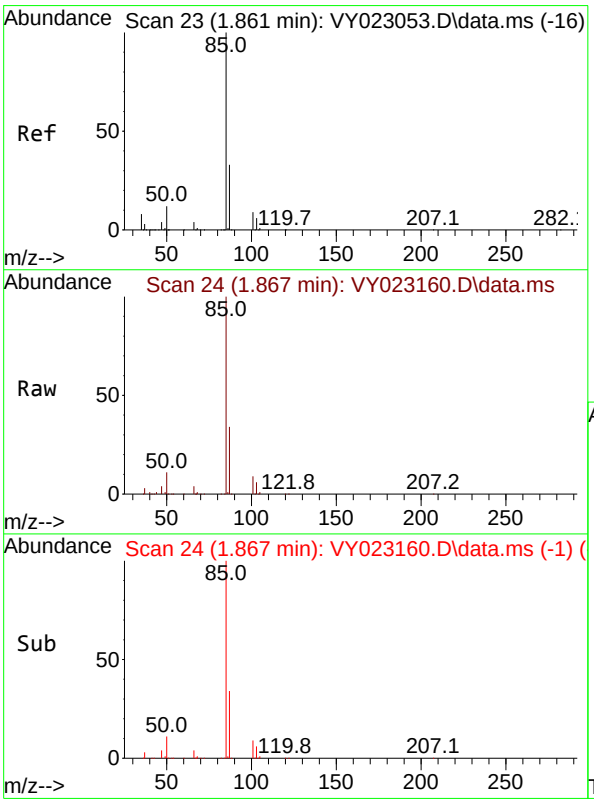
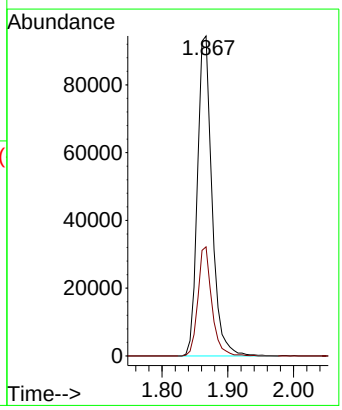
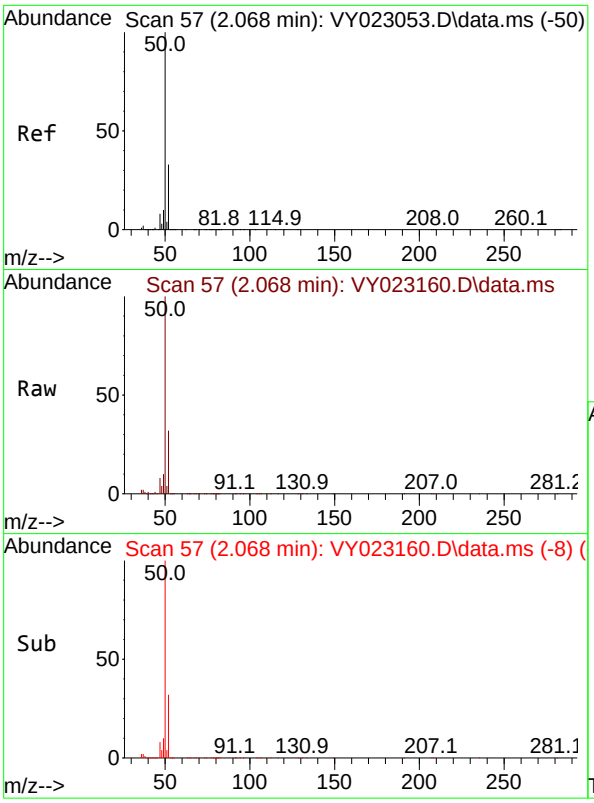


#2
Dichlorodifluoromethane
Concen: 39.160 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 85 Resp: 145094

Ion	Ratio	Lower	Upper
85	100		
87	34.1	16.6	49.8





#3
Chloromethane
Concen: 46.137 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 50 Resp: 27687

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.7	40.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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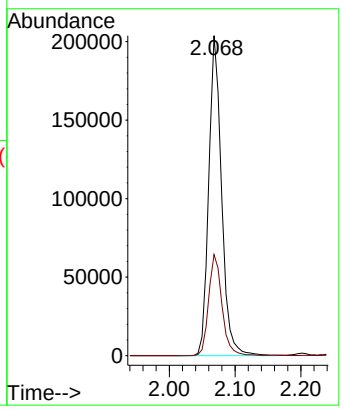
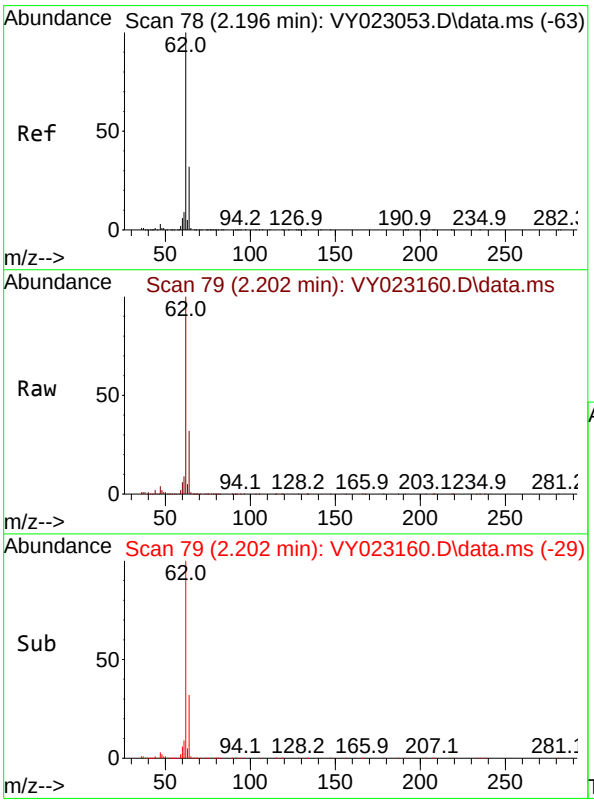
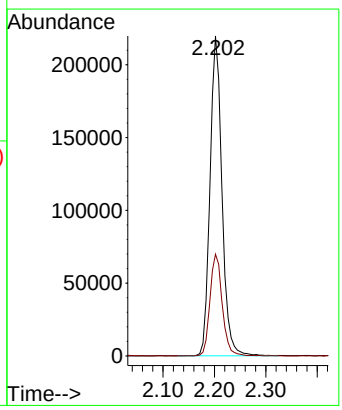


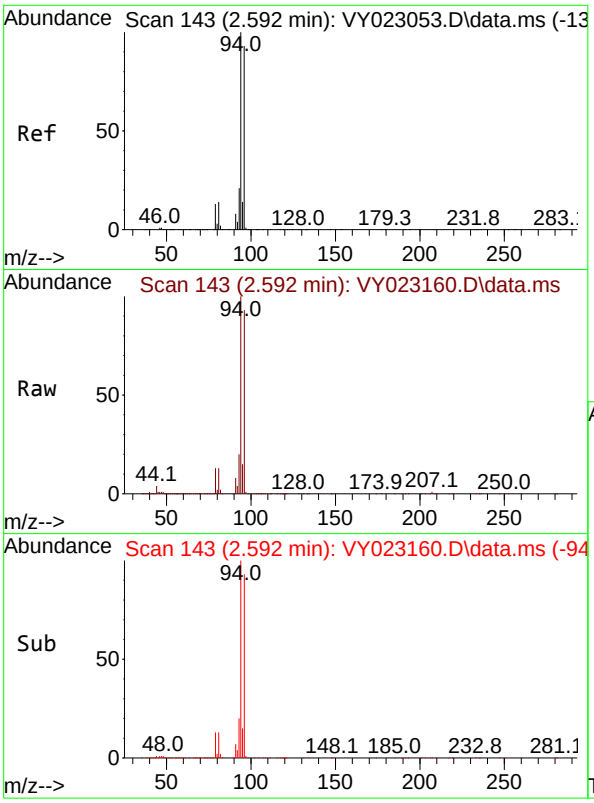


#4
Vinyl Chloride
Concen: 47.848 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 354948

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0





#5
Bromomethane
Concen: 50.342 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 94 Resp: 27890

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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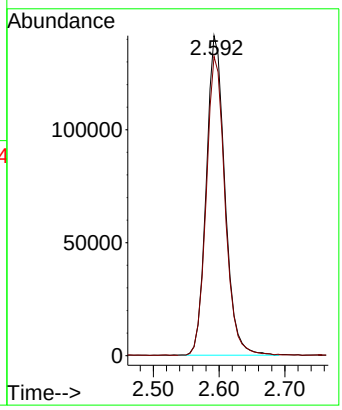
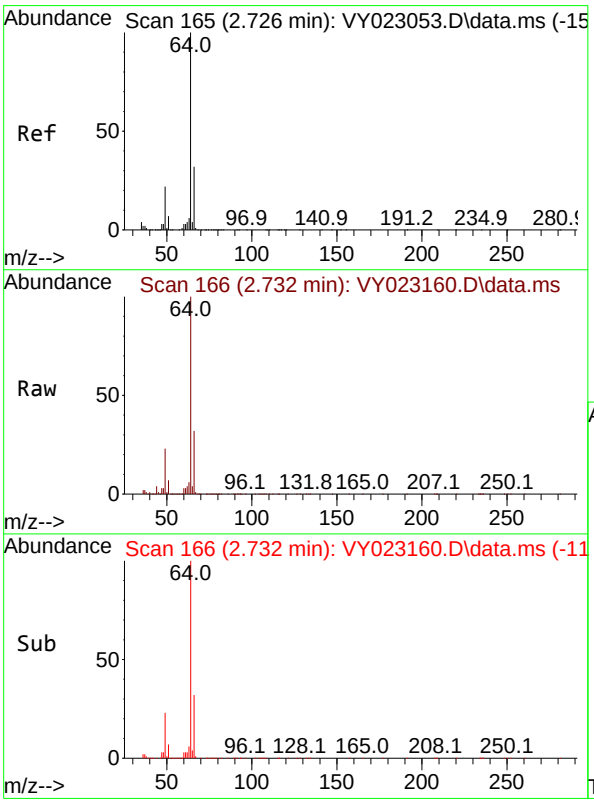
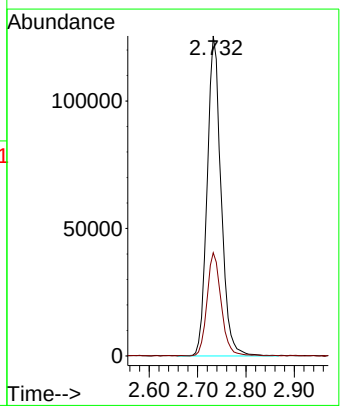


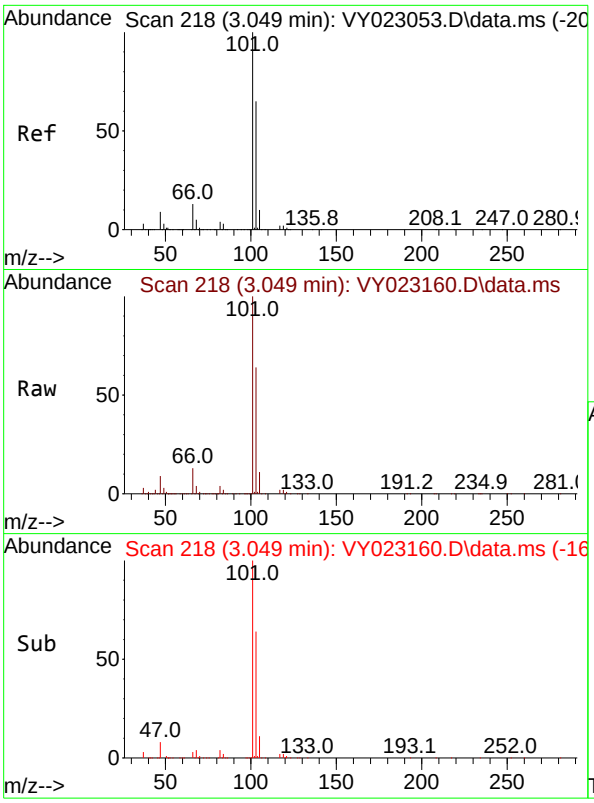


#6
Chloroethane
Concen: 50.860 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 64 Resp: 250831

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6





#7
Trichlorofluoromethane
Concen: 44.950 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:101 Resp: 40545

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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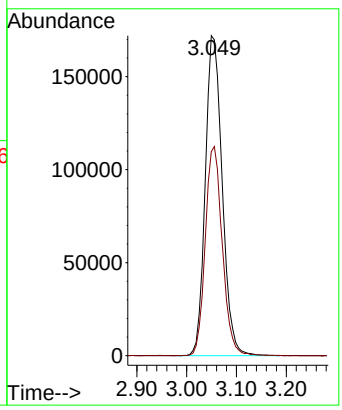
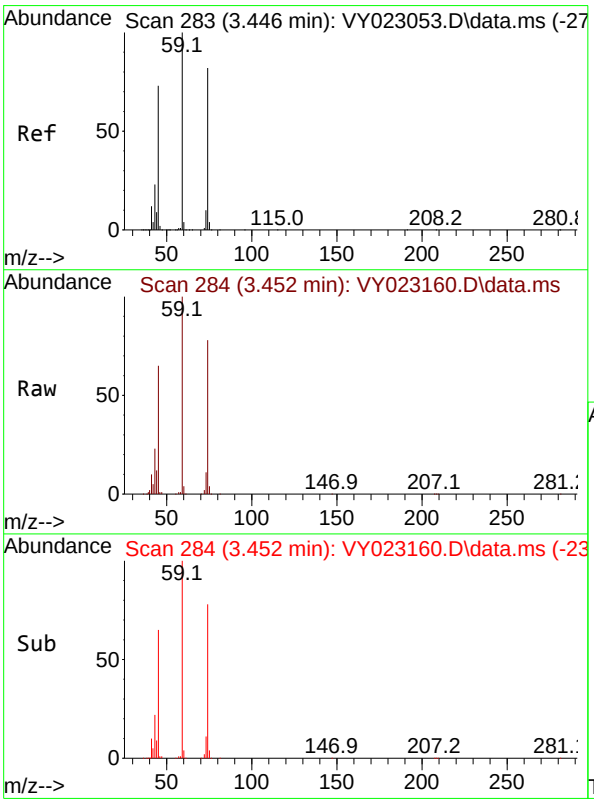
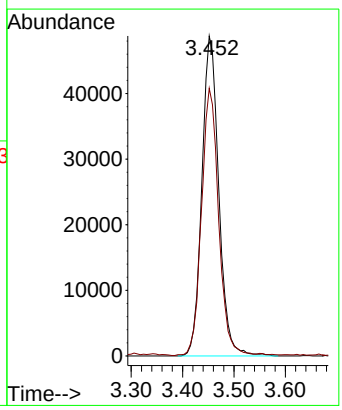


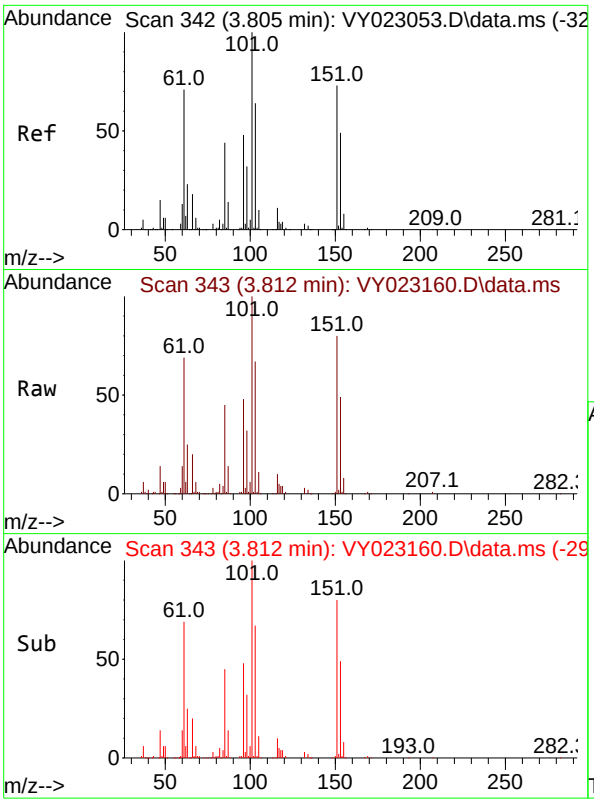


#8
Diethyl Ether
Concen: 46.597 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 74 Resp: 111202

Ion	Ratio	Lower	Upper
74	100		
45	84.5	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.085 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:101 Resp: 20063

Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.3	54.5
151	78.1	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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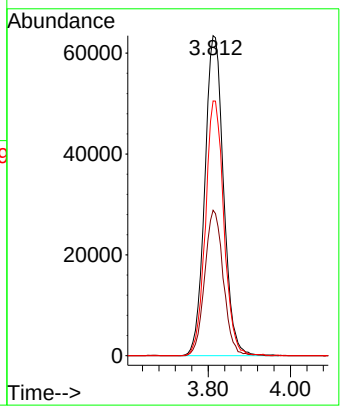
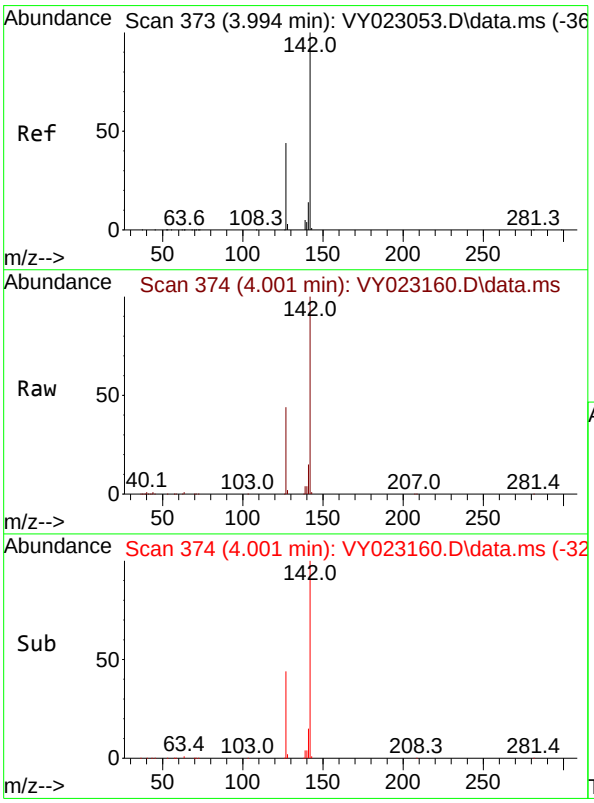
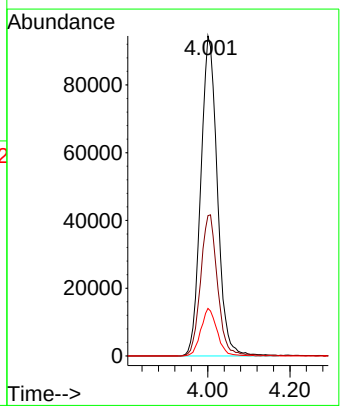


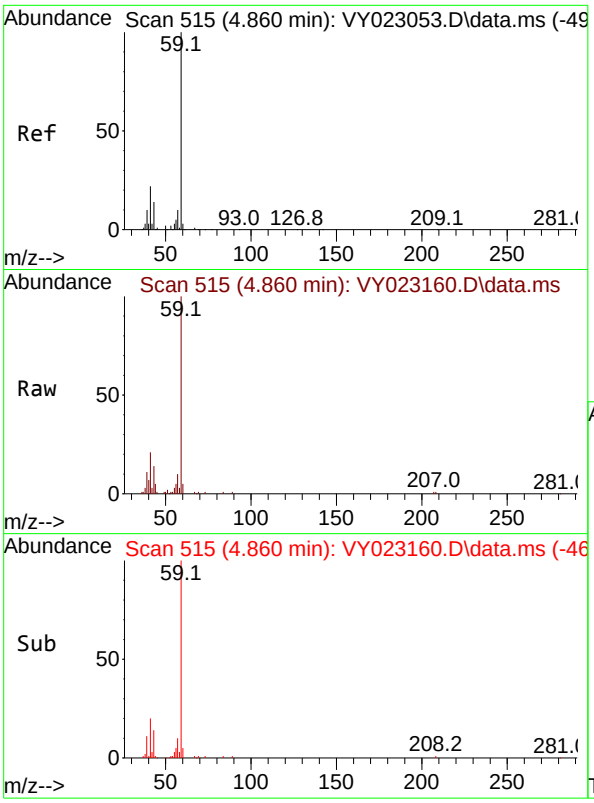


#10
Methyl Iodide
Concen: 54.928 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:142 Resp: 263764

Ion	Ratio	Lower	Upper
142	100		
127	45.1	34.9	52.3
141	14.6	11.3	16.9

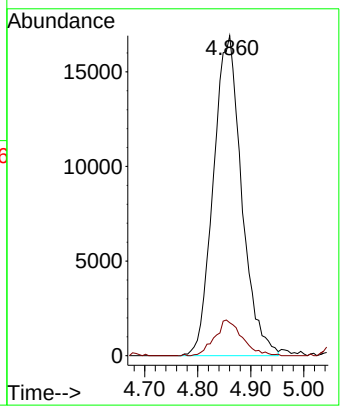




#11
Tert butyl alcohol
Concen: 211.323 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 59 Resp: 6264

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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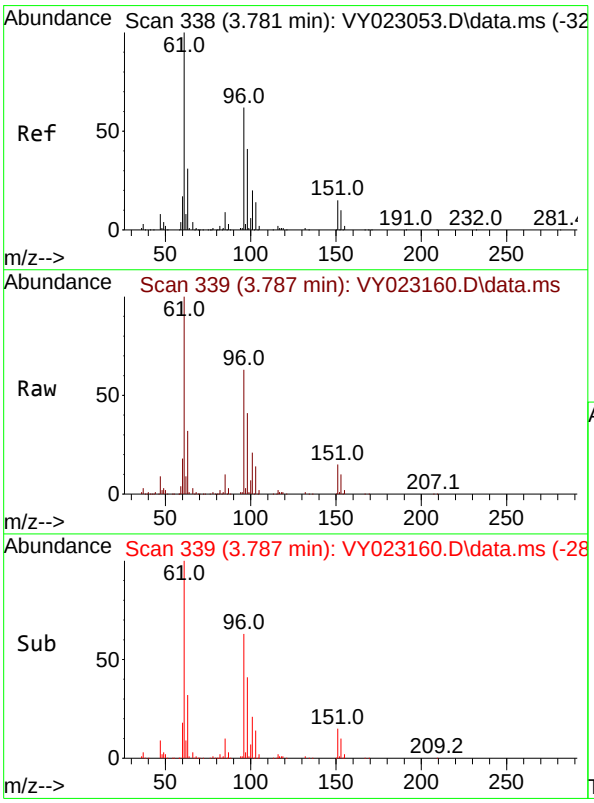
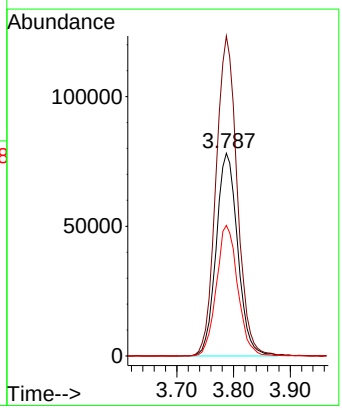
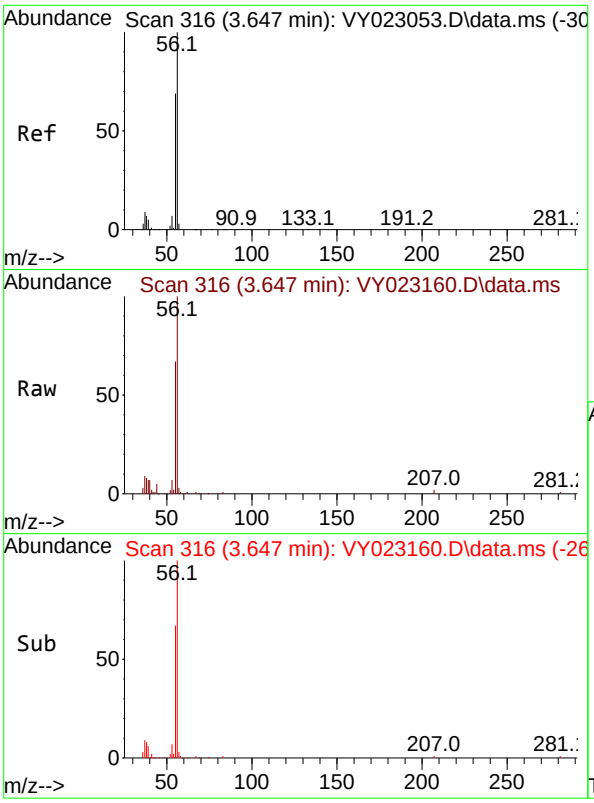


#12
1,1-Dichloroethene
Concen: 47.120 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 206109

Ion	Ratio	Lower	Upper
96	100		
61	157.9	129.4	194.2
98	64.4	52.8	79.2





#13
Acrolein
Concen: 110.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 56 Resp: 4800

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.2	82.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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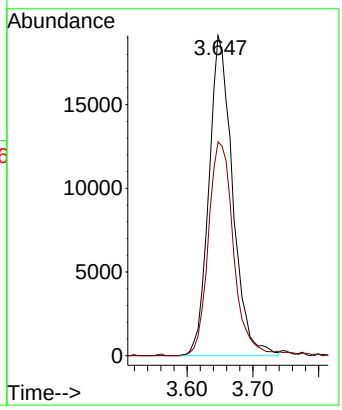
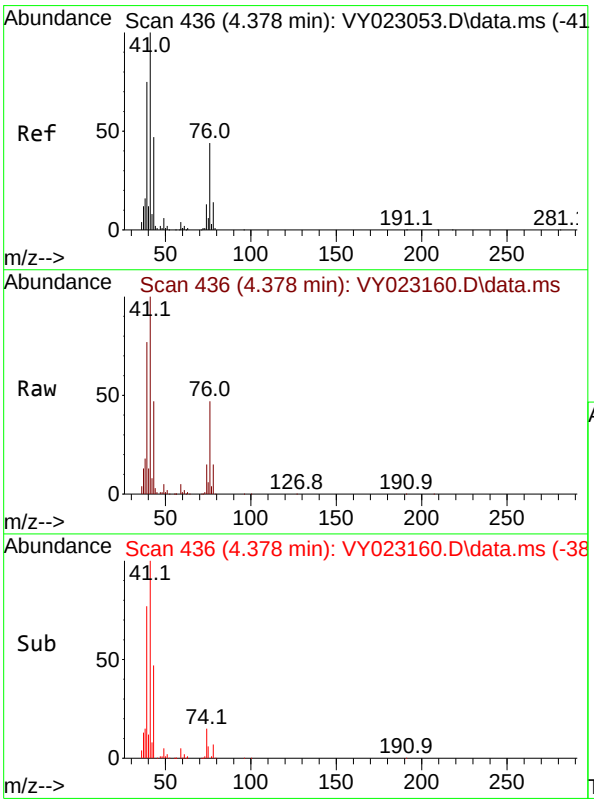
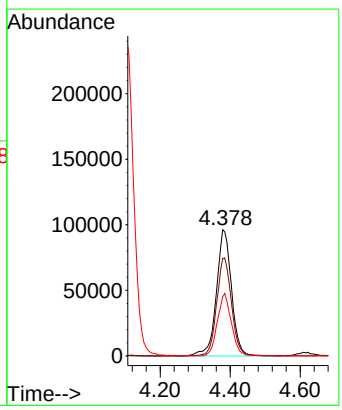


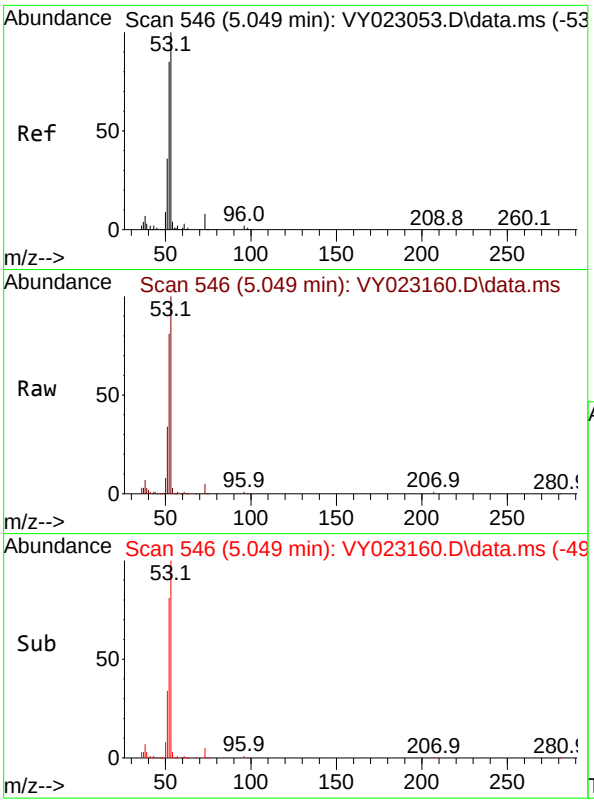


#14
Allyl chloride
Concen: 44.800 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 288345

Ion	Ratio	Lower	Upper
41	100		
39	76.3	59.8	89.6
76	45.6	33.7	50.5

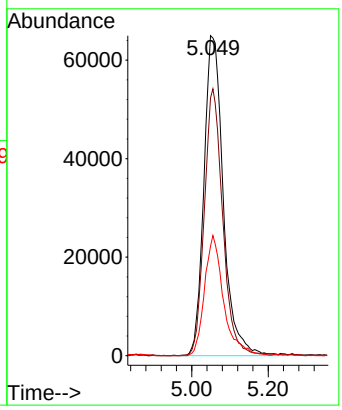




#15
Acrylonitrile
Concen: 235.673 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 53 Resp: 22865

Ion	Ratio	Lower	Upper
53	100		
52	79.4	65.3	97.9
51	37.0	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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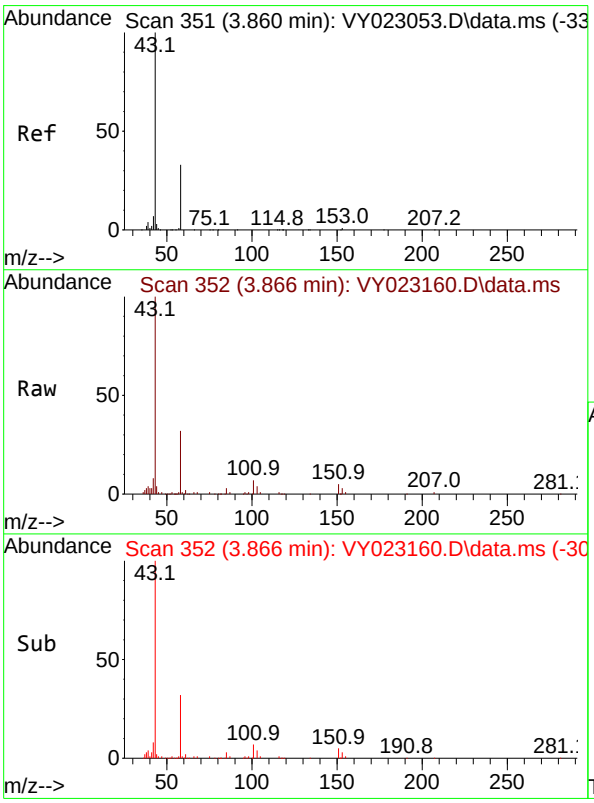
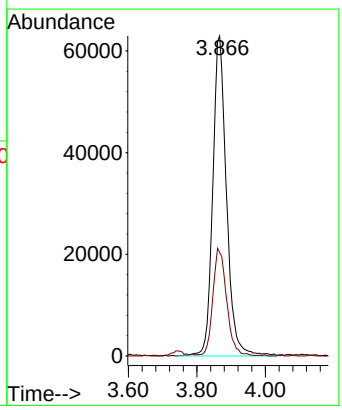
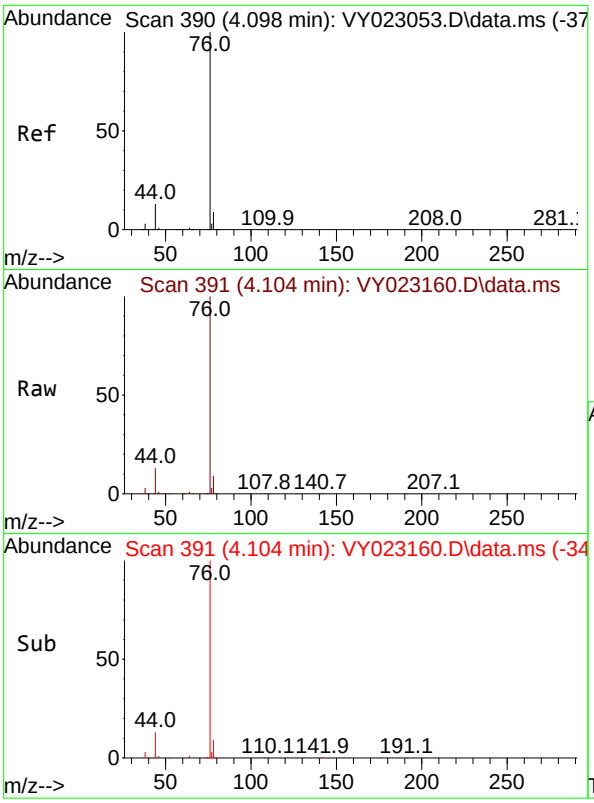


#16
Acetone
Concen: 187.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 175331

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7





#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 76 Resp: 65702

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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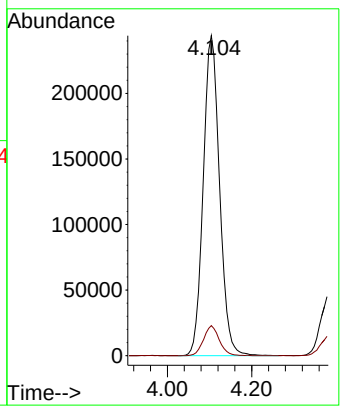
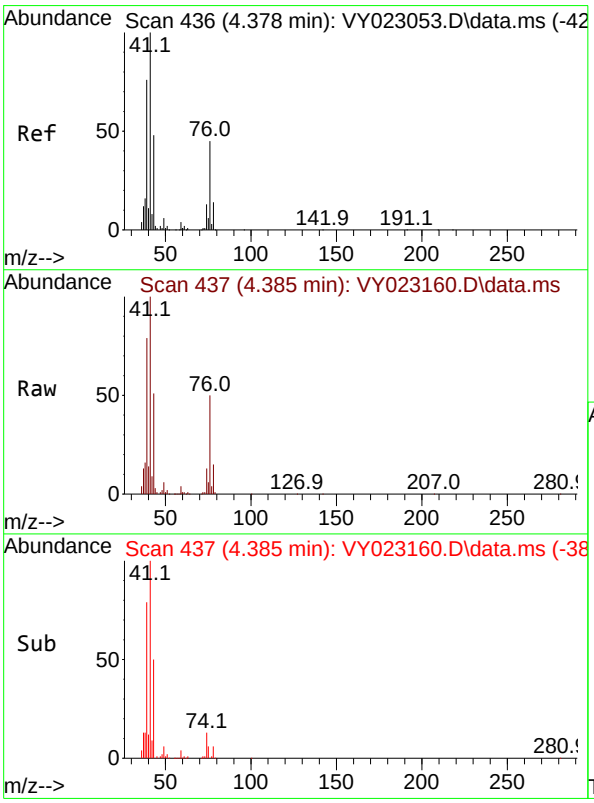
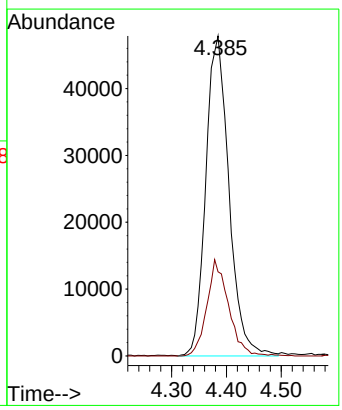


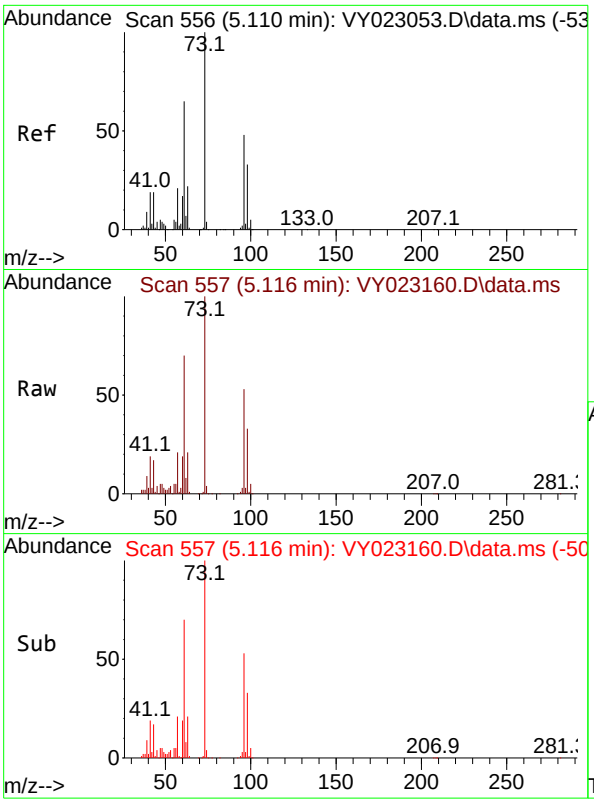


#18
Methyl Acetate
Concen: 50.290 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 140261

Ion	Ratio	Lower	Upper
43	100		
74	28.1	21.2	31.8

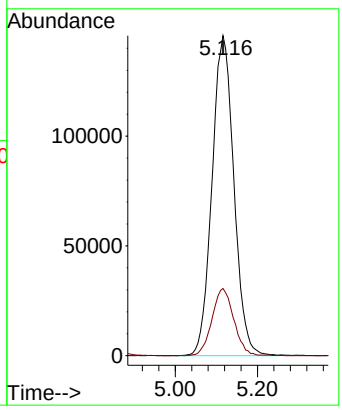




#19
Methyl tert-butyl Ether
Concen: 47.480 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 73 Resp: 53816

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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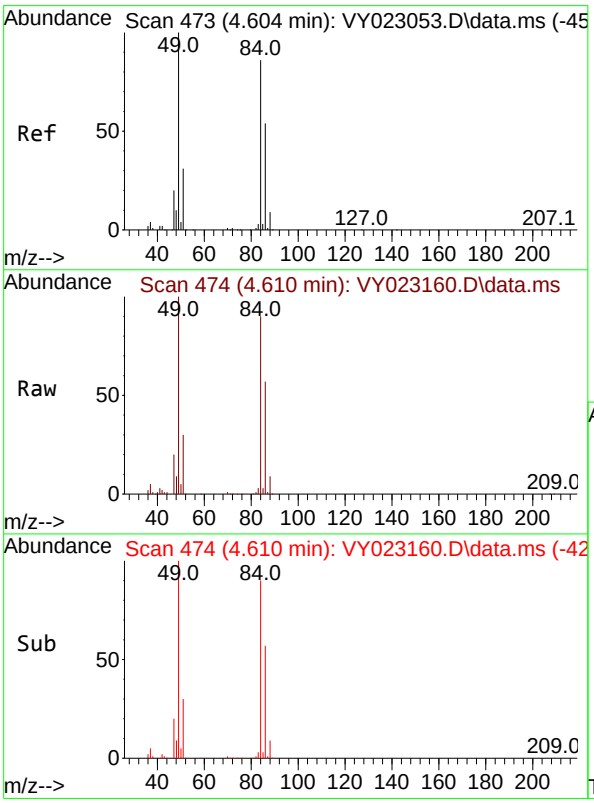
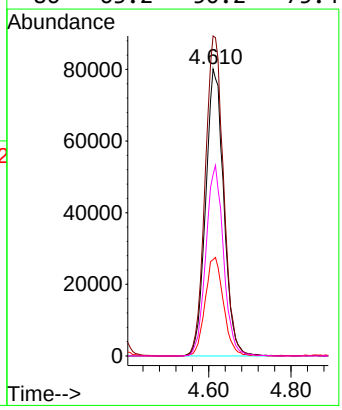
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

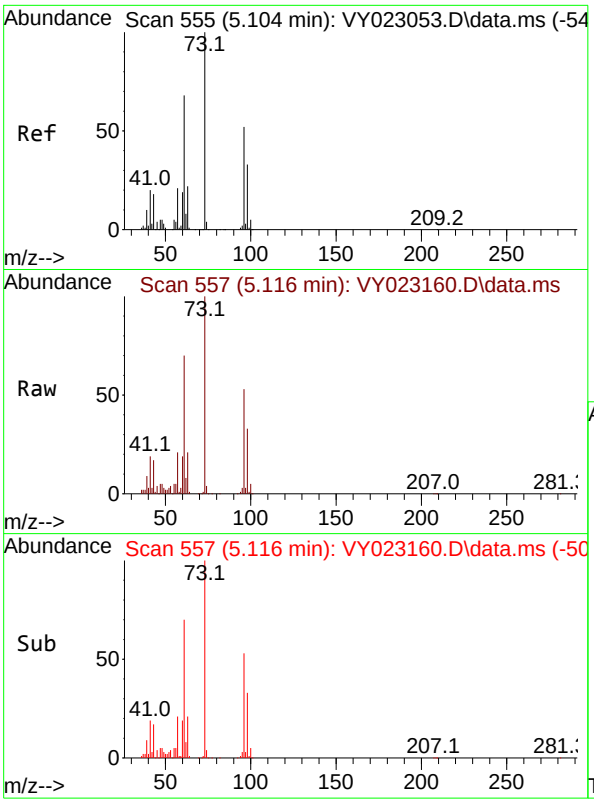


#20
Methylene Chloride
Concen: 50.247 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 84 Resp: 244646

Ion	Ratio	Lower	Upper
84	100		
49	111.5	93.0	139.6
51	33.6	29.0	43.4
86	63.2	50.2	75.4

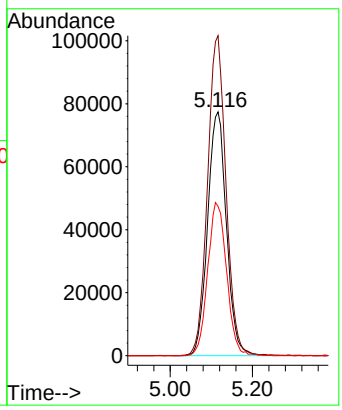




#21
trans-1,2-Dichloroethene
Concen: 50.119 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 24636

Ion	Ratio	Lower	Upper
96	100		
61	131.2	104.8	157.2
98	61.2	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :John Carlone 08/20/2025
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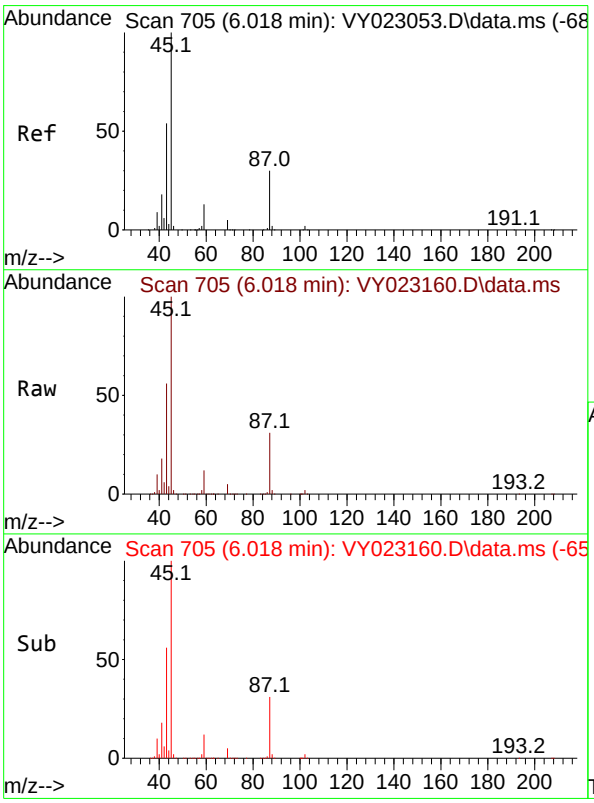
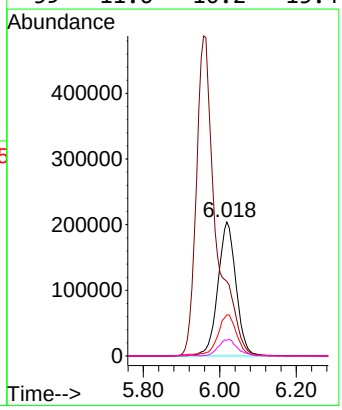
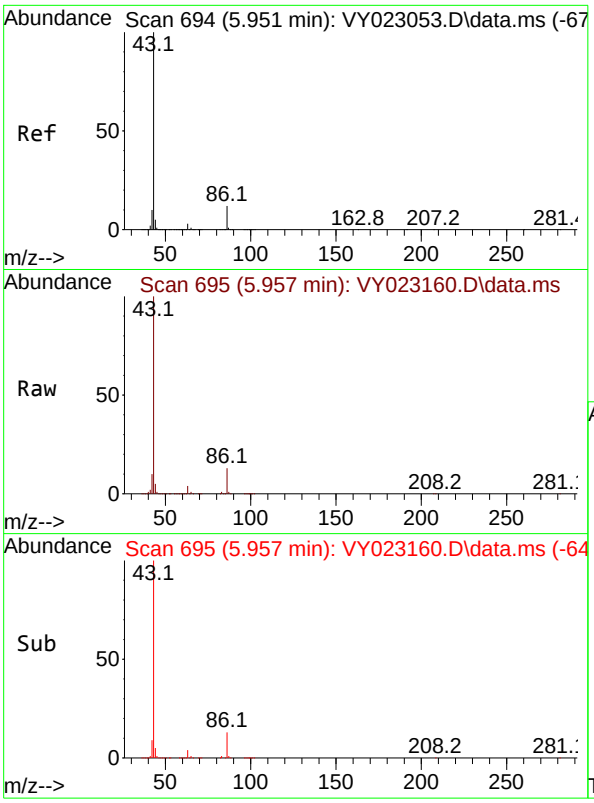


#22
Diisopropyl ether
Concen: 47.919 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 45 Resp: 670200

Ion	Ratio	Lower	Upper
45	100		
43	55.5	43.4	65.0
87	30.7	24.4	36.6
59	11.6	10.2	15.4

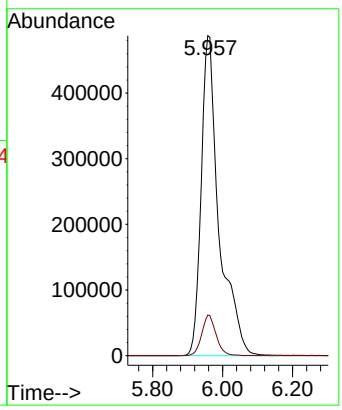




#23
Vinyl Acetate
Concen: 223.289 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 172682

Ion	Ratio	Lower	Upper
43	100		
86	12.7	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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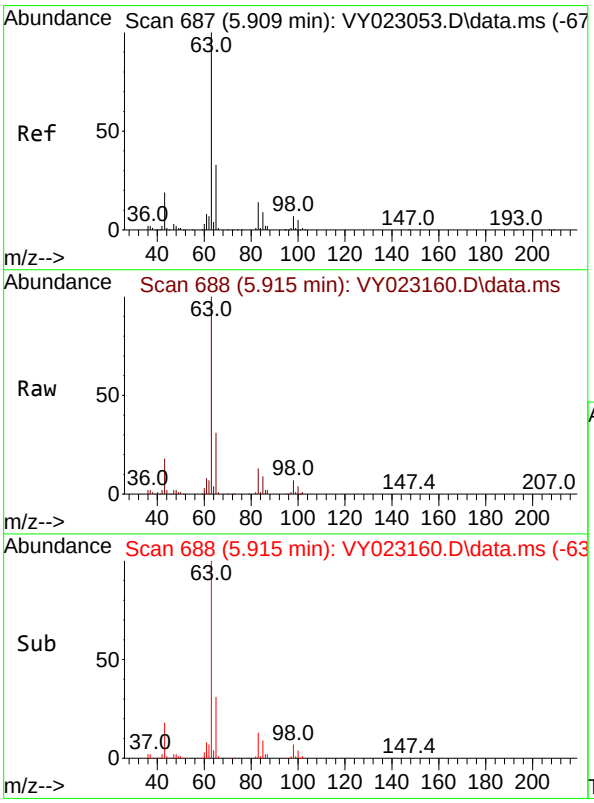
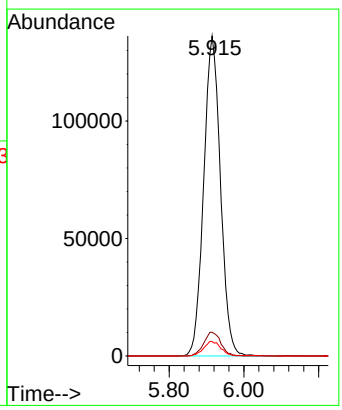
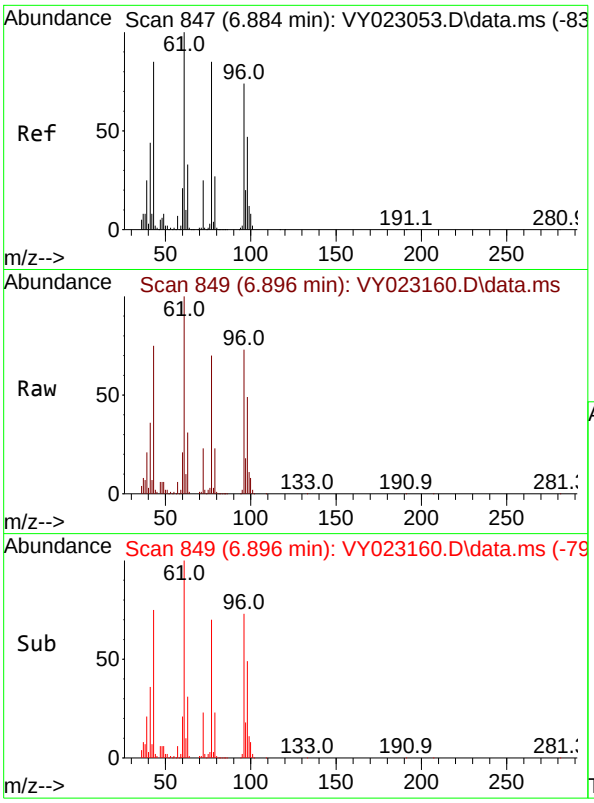


#24
1,1-Dichloroethane
Concen: 49.522 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 423462

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.5	2.4	7.1





#25
2-Butanone
Concen: 210.456 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 26826

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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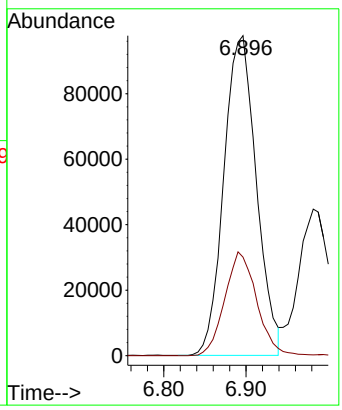
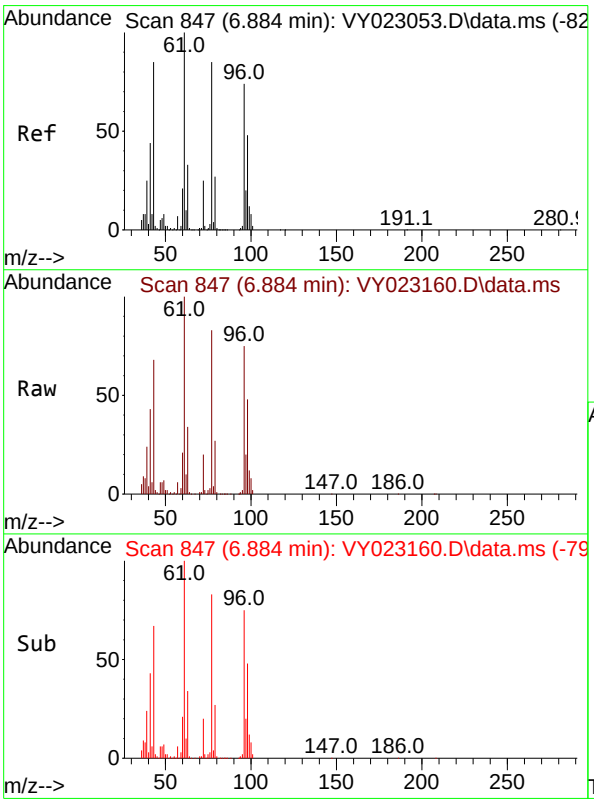
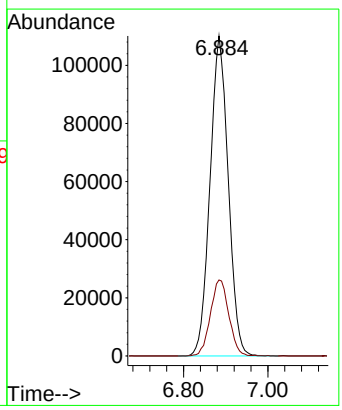


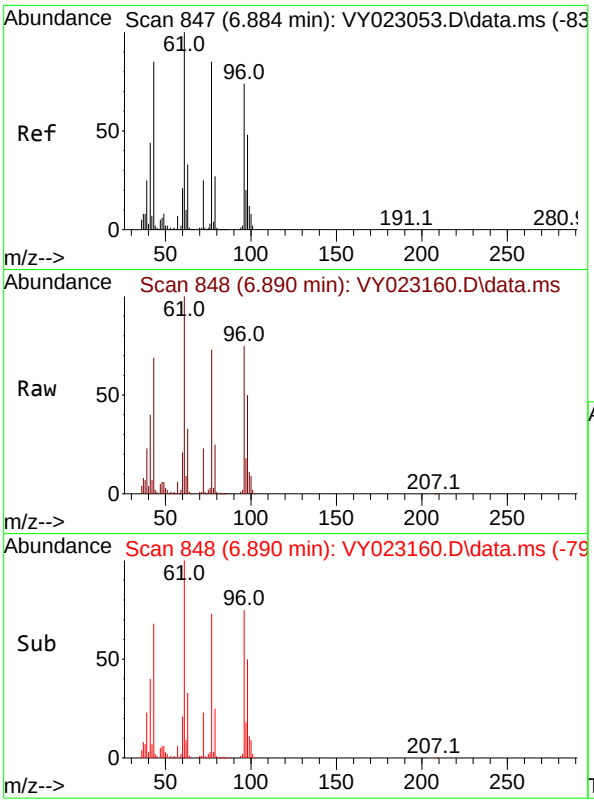


#26
2,2-Dichloropropane
Concen: 44.729 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 77 Resp: 330025

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 50.390 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 28635

Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	278.6
98	64.2	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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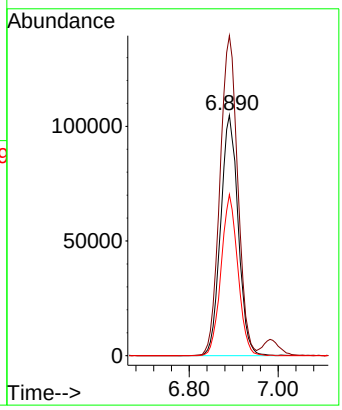
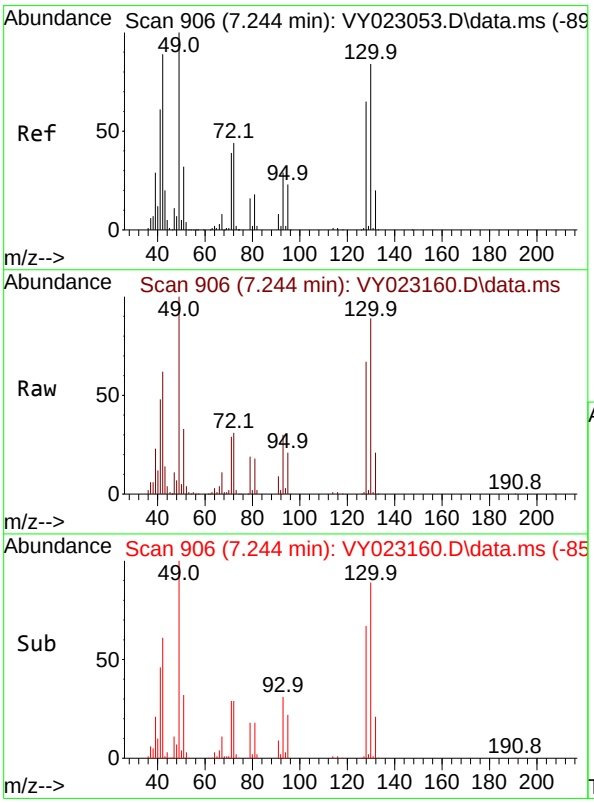
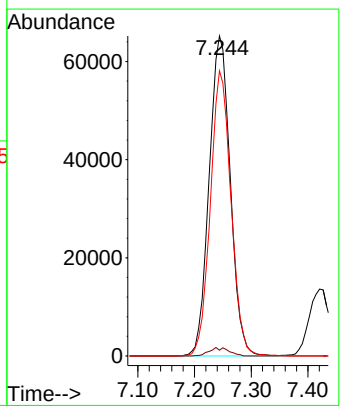


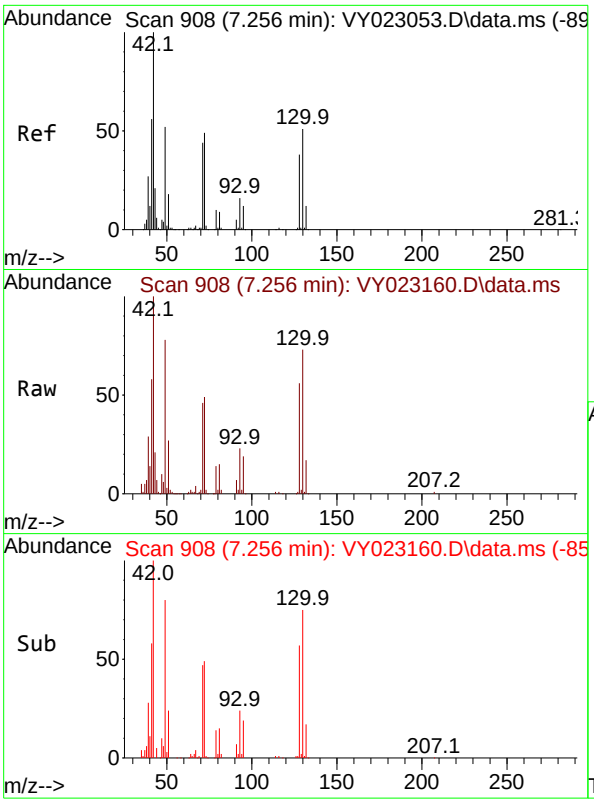


#28
Bromochloromethane
Concen: 49.712 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 49 Resp: 168646

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	87.0	66.4	99.6

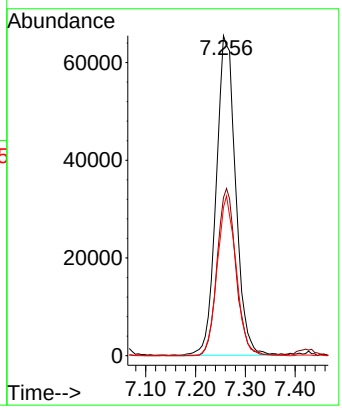




#29
Tetrahydrofuran
Concen: 223.965 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 42 Resp: 17695

Ion	Ratio	Lower	Upper
42	100		
72	51.0	39.4	59.2
71	48.7	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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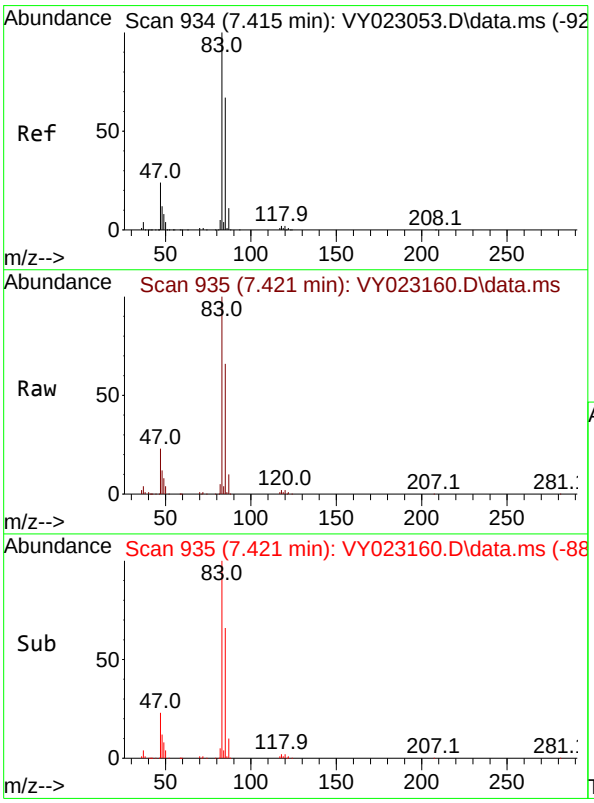
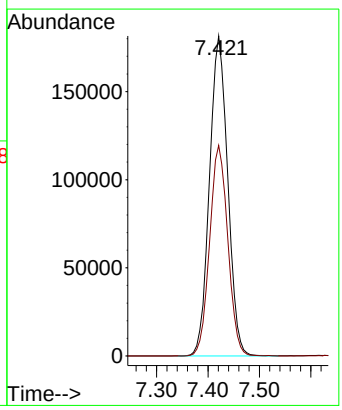
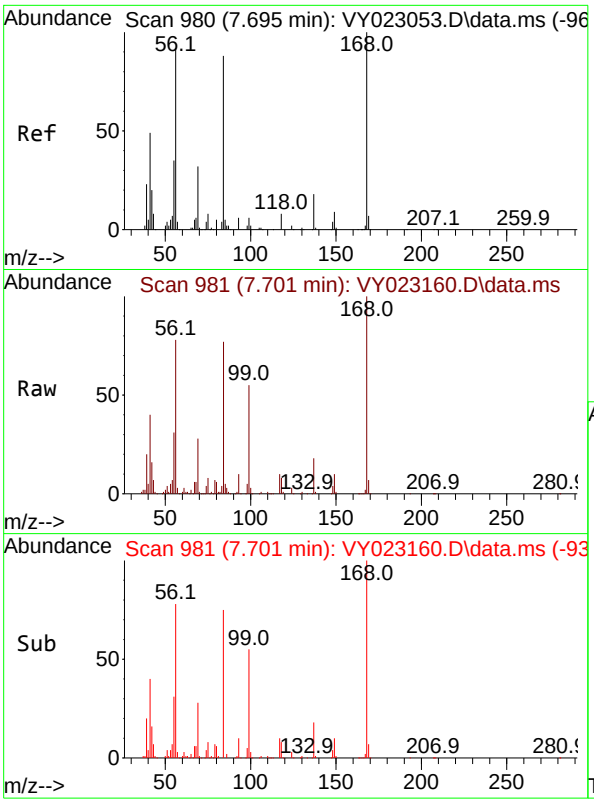


#30
Chloroform
Concen: 50.699 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 447102

Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.8	80.8

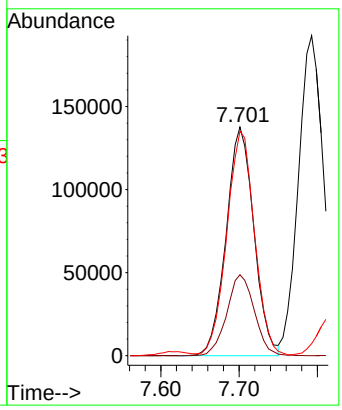




#31
Cyclohexane
Concen: 42.047 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 56 Resp: 33881

Ion	Ratio	Lower	Upper
56	100		
69	35.4	28.2	42.2
84	96.4	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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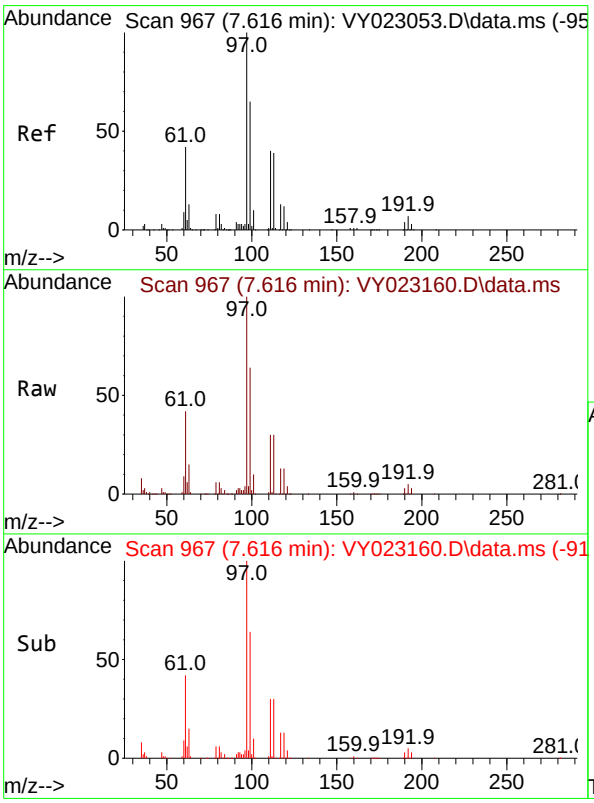
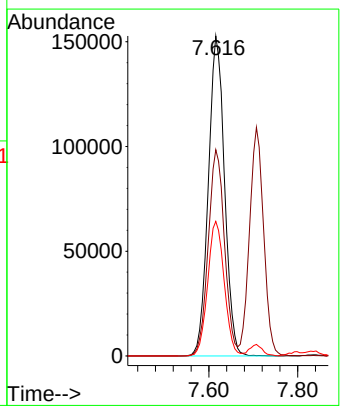
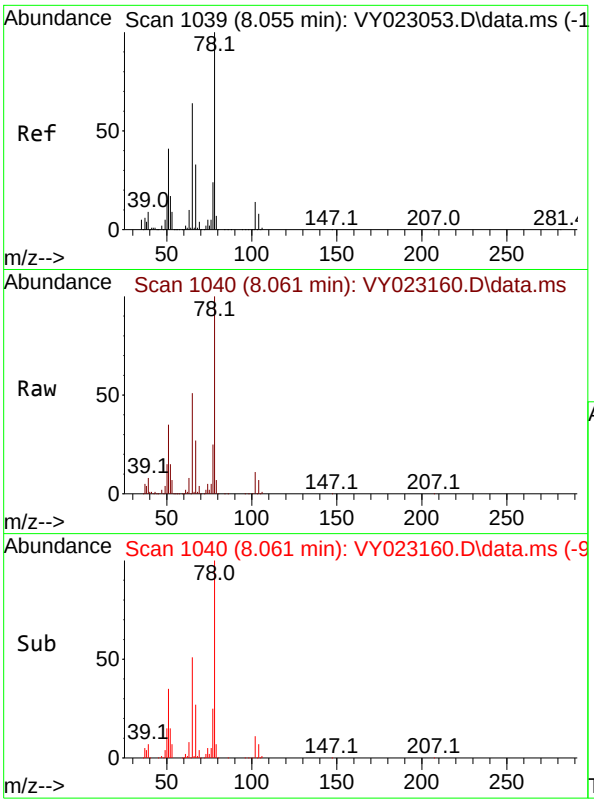


#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 97 Resp: 386894

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	42.9	34.2	51.2





#33
1,2-Dichloroethane-d4
Concen: 49.322 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 65 Resp: 21337

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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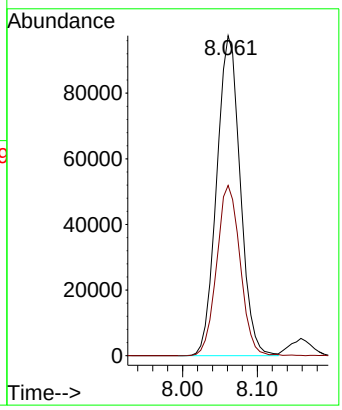
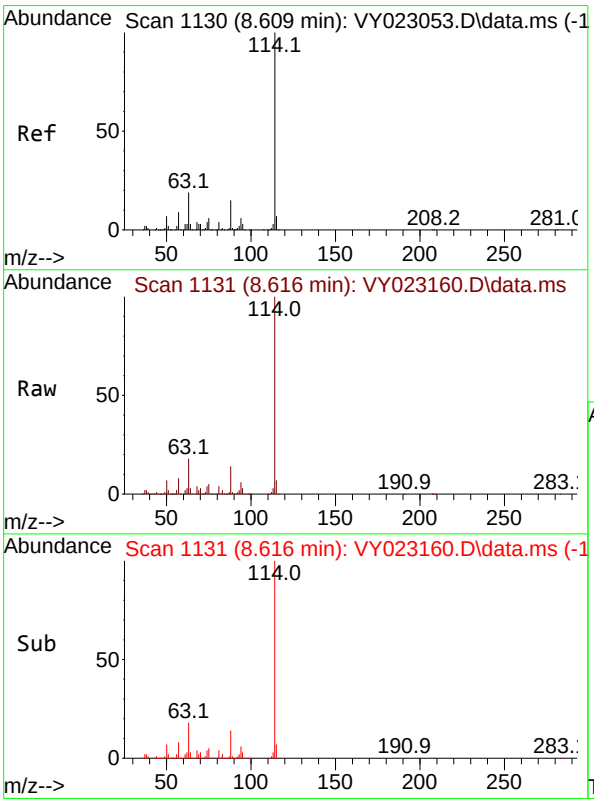
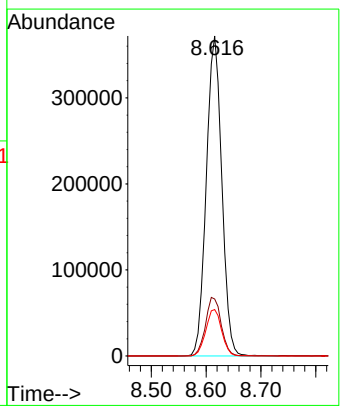


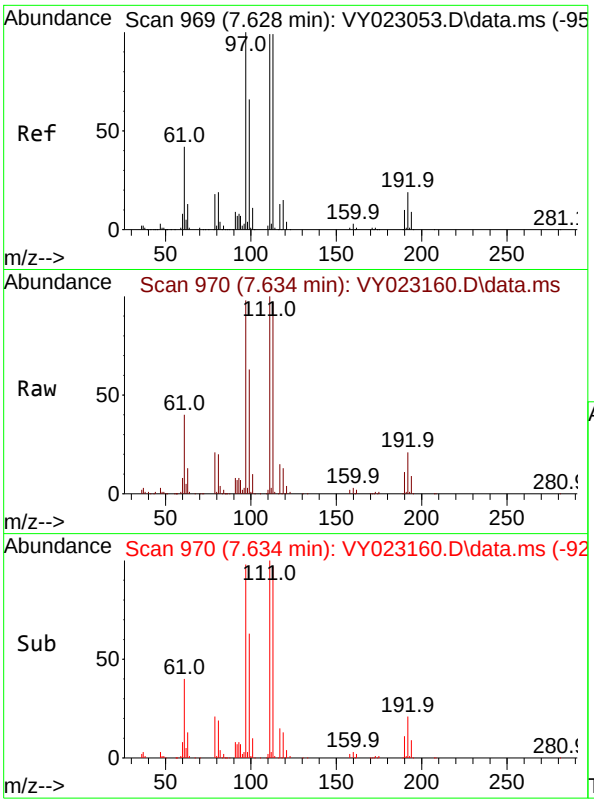


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:114 Resp: 726912

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	38.4
88	14.5	0.0	30.0





#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:113 Resp: 21705

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.1	121.7
192	20.9	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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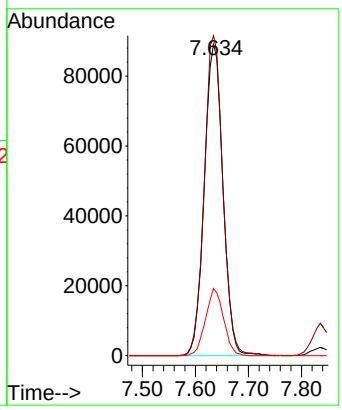
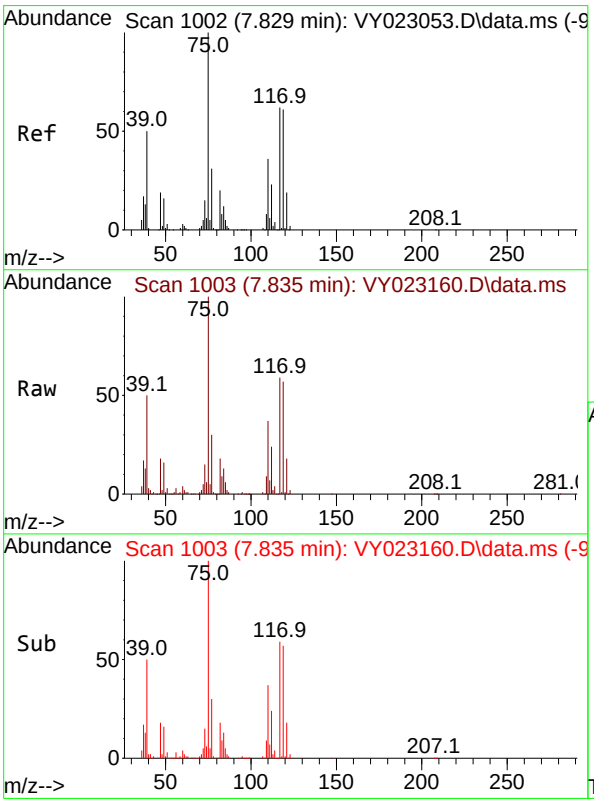
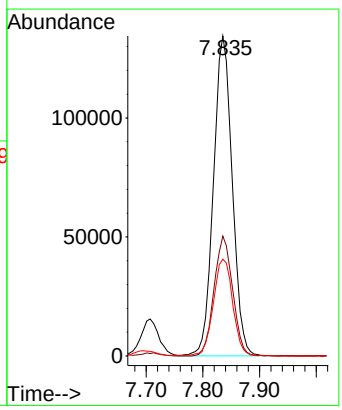


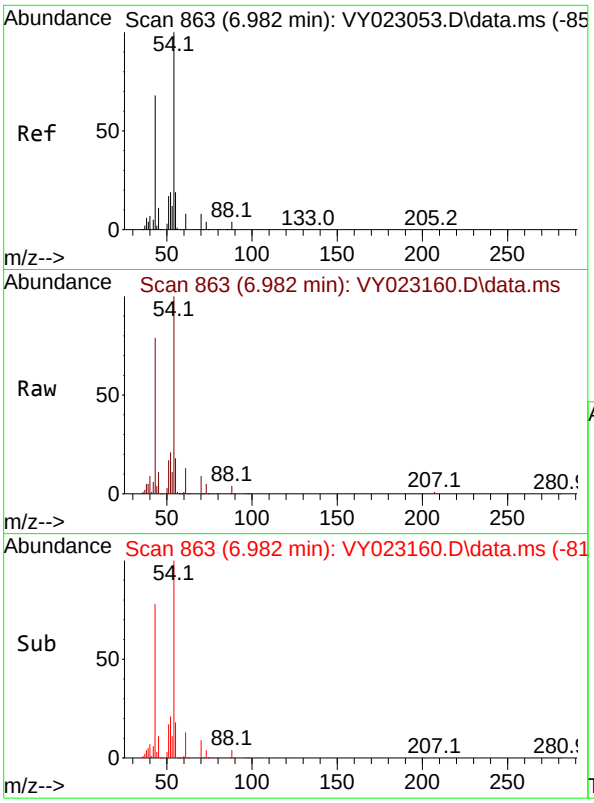


#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 308640

Ion	Ratio	Lower	Upper
75	100		
110	37.0	18.1	54.4
77	31.4	24.6	37.0





#37
Ethyl Acetate
Concen: 44.444 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 12068

Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.9	17.9
70	12.3	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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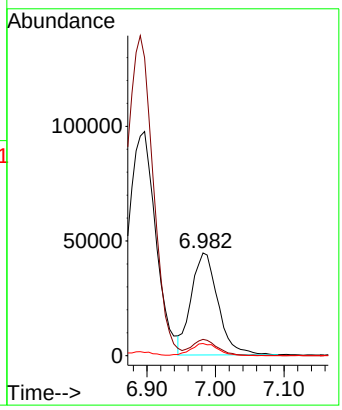
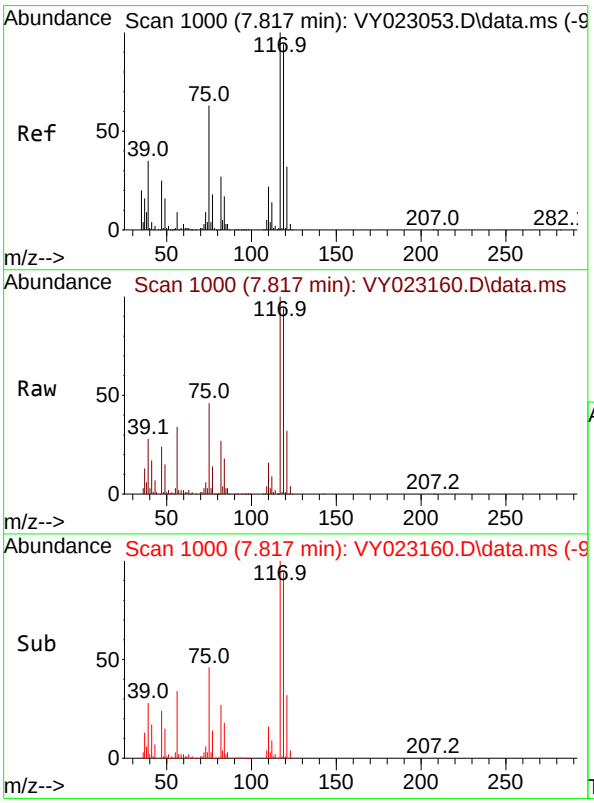
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

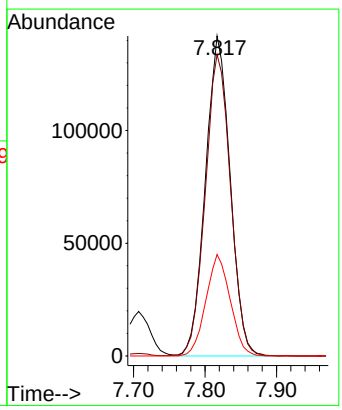


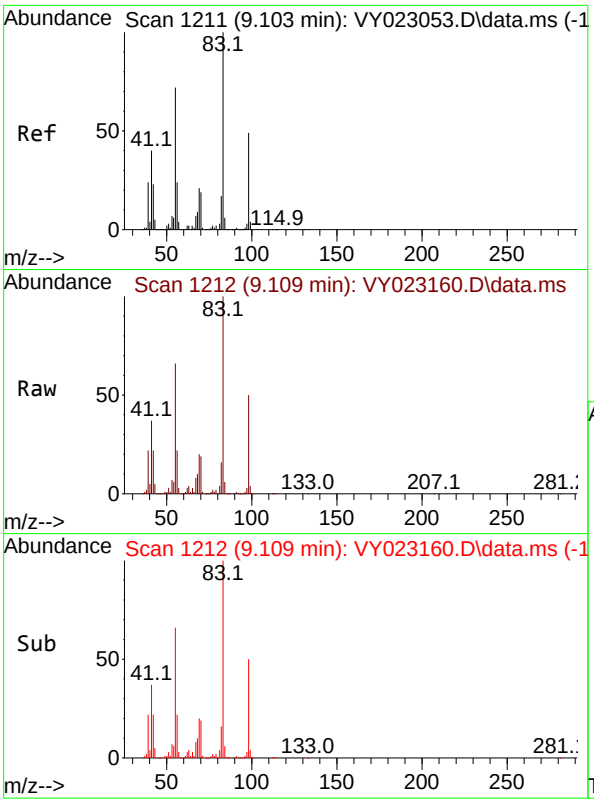


#38
Carbon Tetrachloride
Concen: 48.612 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 341297

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.6	113.4
121	31.7	25.8	38.8





#39
Methylcyclohexane
Concen: 45.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 38799

Ion	Ratio	Lower	Upper
83	100		
55	66.2	57.6	86.4
98	49.9	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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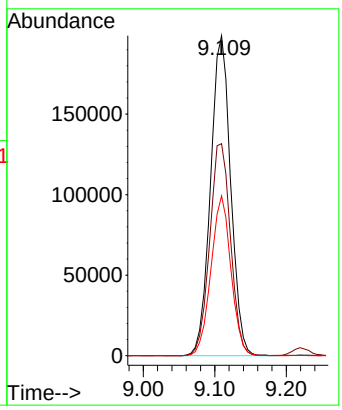
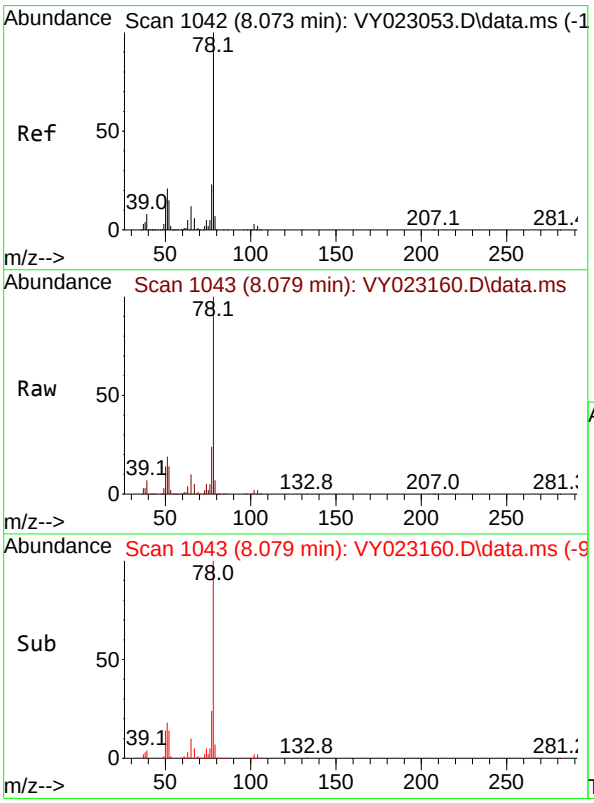
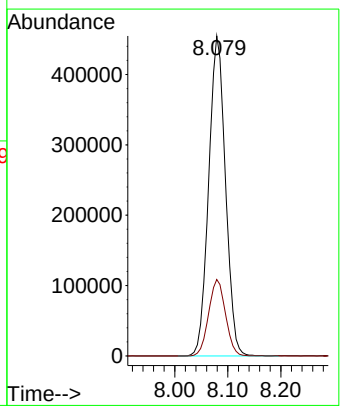


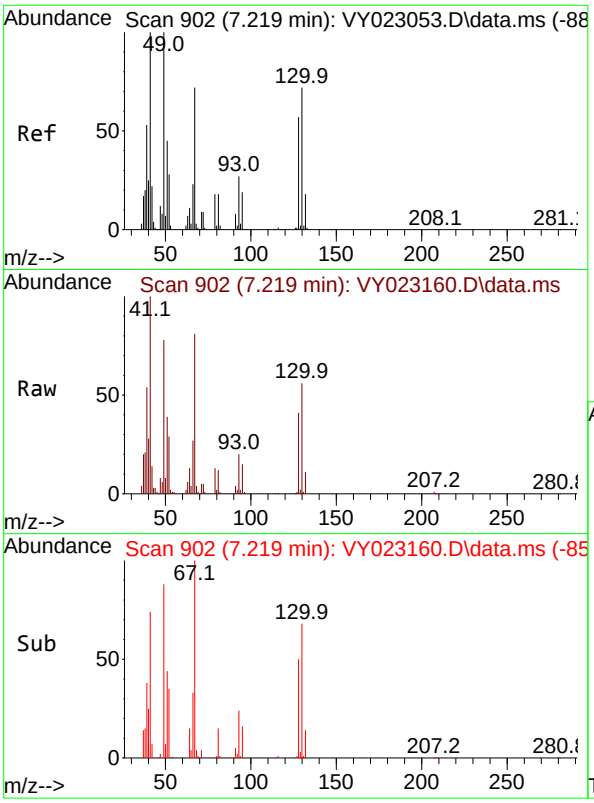


#40
Benzene
Concen: 50.170 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 78 Resp: 999546

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0

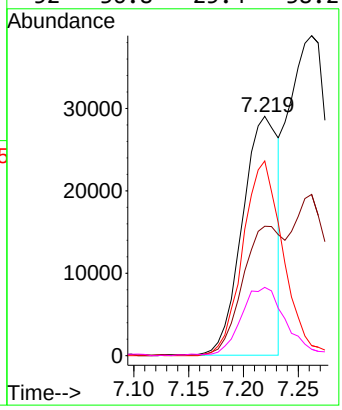




#41
Methacrylonitrile
Concen: 41.877 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 6562

Ion	Ratio	Lower	Upper
41	100		
39	62.3	43.4	65.2
67	92.6	63.6	95.4
52	36.8	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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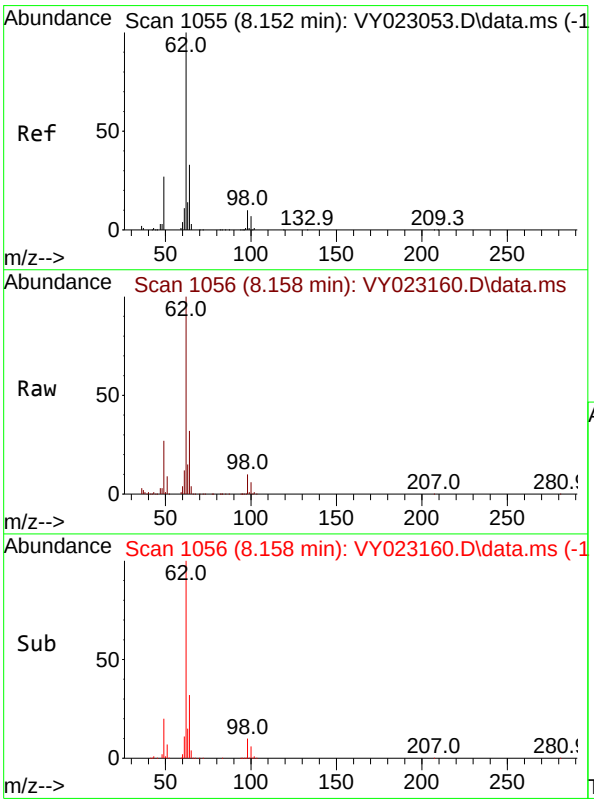
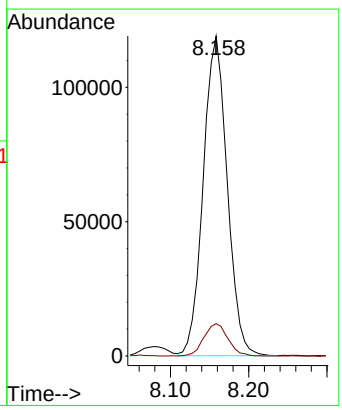
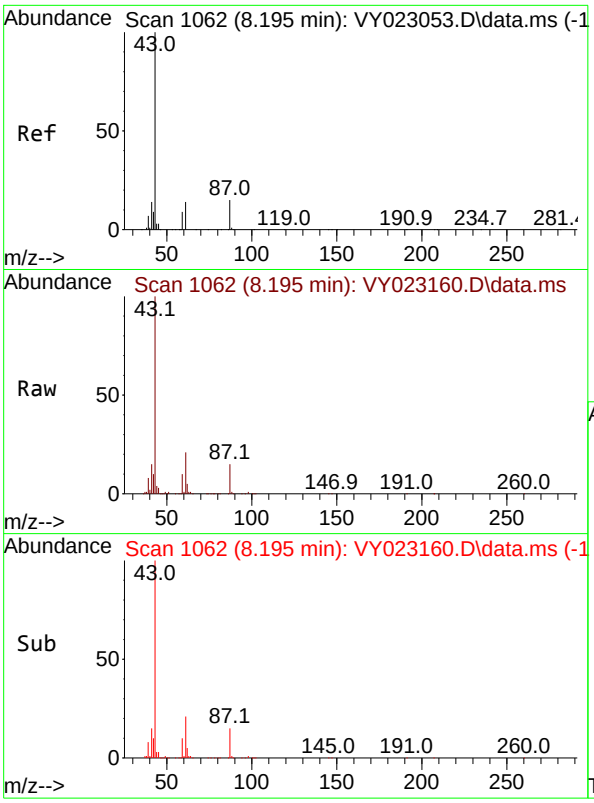


#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 253049

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6





#43
Isopropyl Acetate
Concen: 44.694 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 24529

Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.4	24.6
87	15.5	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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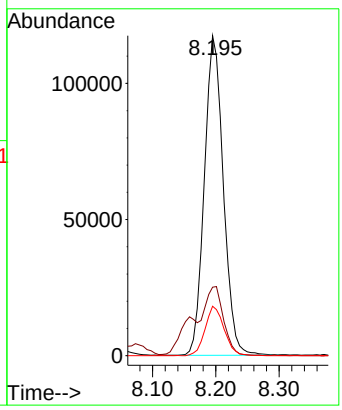
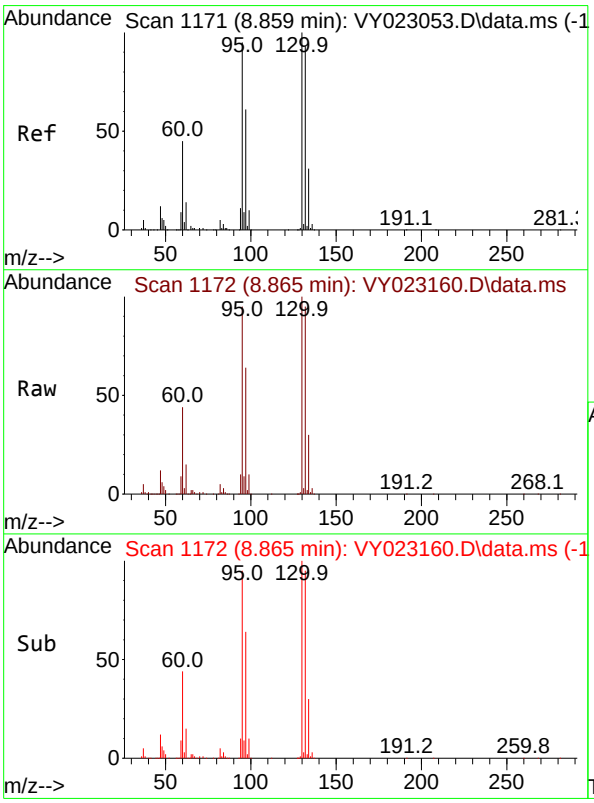
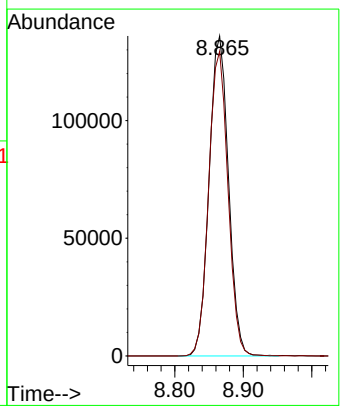


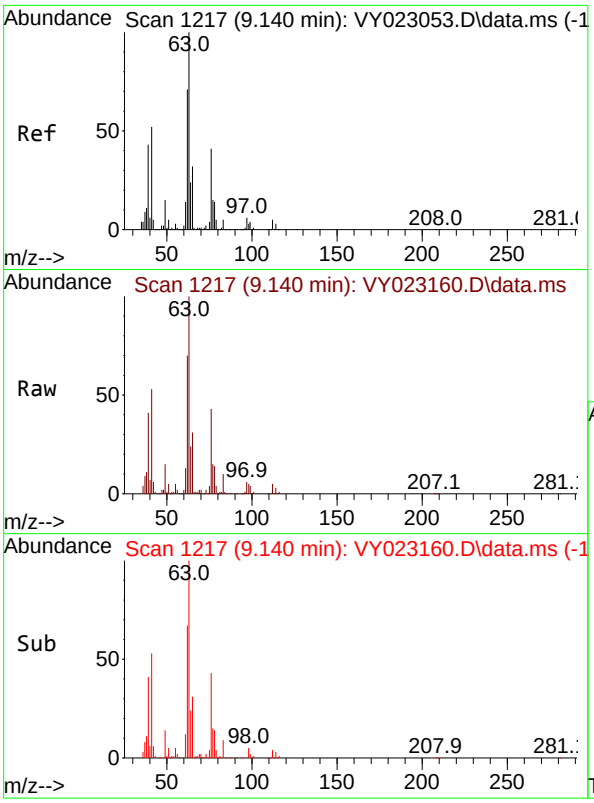


#44
Trichloroethene
Concen: 51.782 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:130 Resp: 266609

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	190.2





#45
1,2-Dichloropropane
Concen: 49.829 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 22842

Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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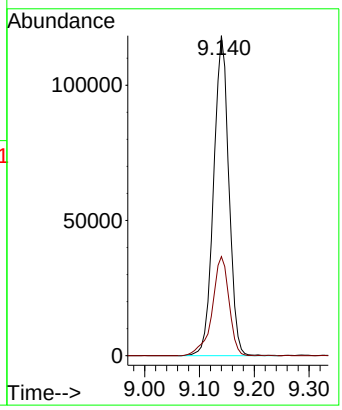
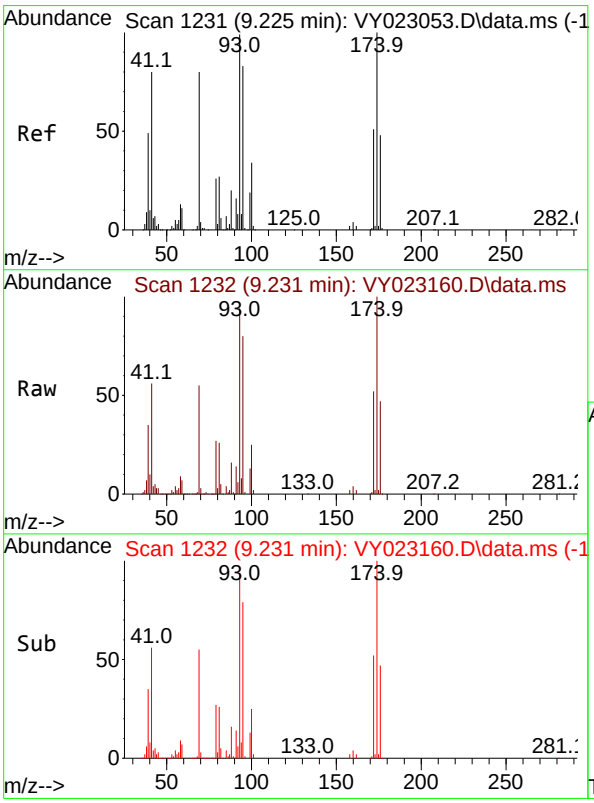
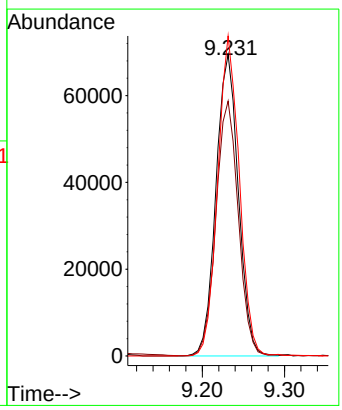


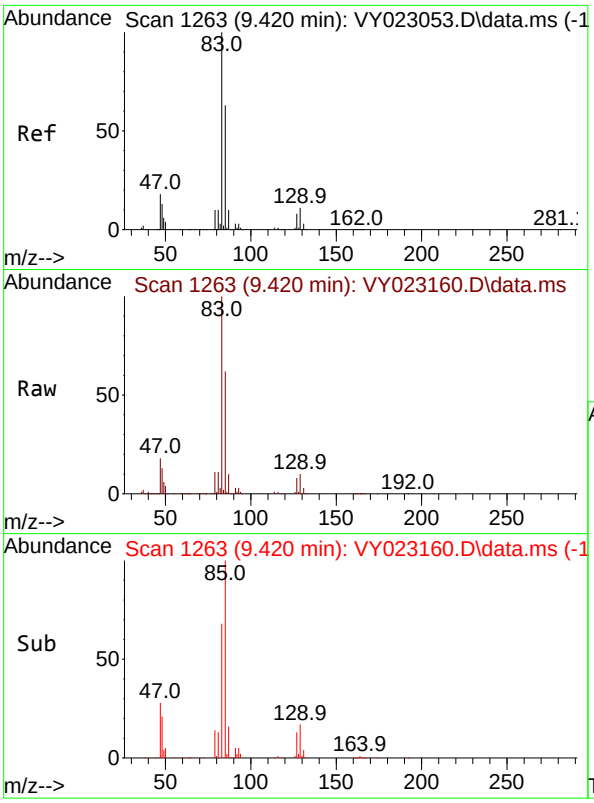


#46
Dibromomethane
Concen: 49.971 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 93 Resp: 131481

Ion	Ratio	Lower	Upper
93	100		
95	84.7	66.5	99.7
174	102.7	81.8	122.8

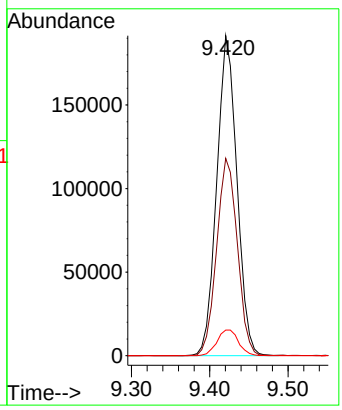




#47
Bromodichloromethane
Concen: 50.703 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 34327

Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.2	75.4
127	8.0	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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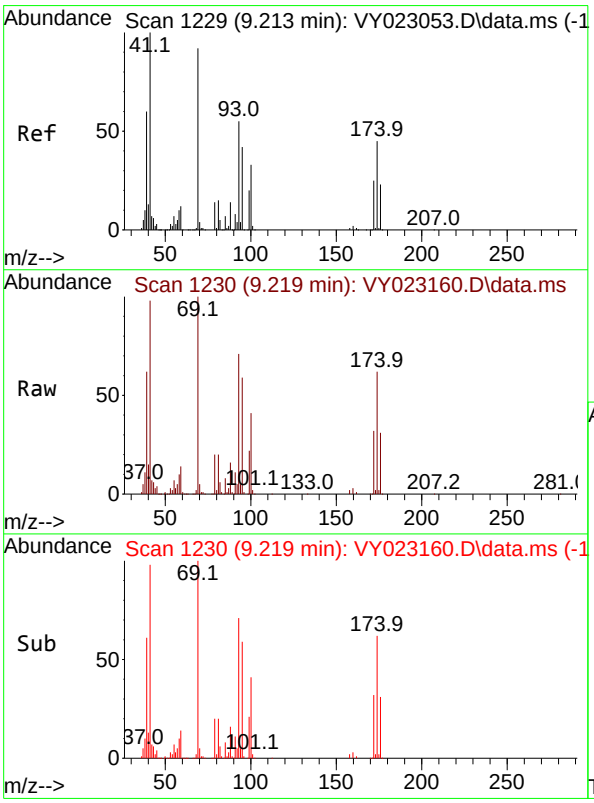
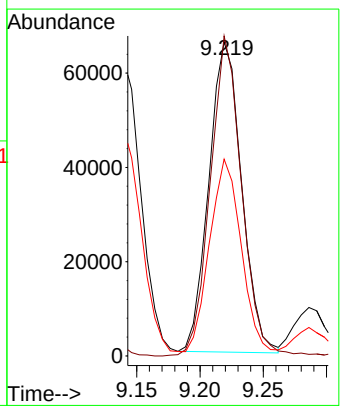
Supervised By :Mahesh Dadoda 08/20/2025

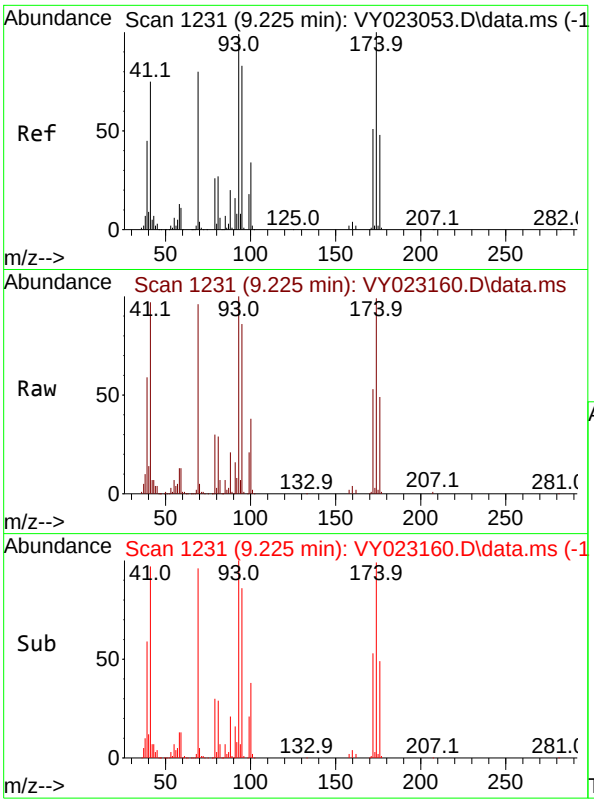


#48
Methyl methacrylate
Concen: 45.021 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 118237

Ion	Ratio	Lower	Upper
41	100		
69	99.0	73.2	109.8
39	59.8	47.0	70.4





#49
1,4-Dioxane
Concen: 946.444 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 88 Resp: 2919

Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.3	36.5
58	57.5	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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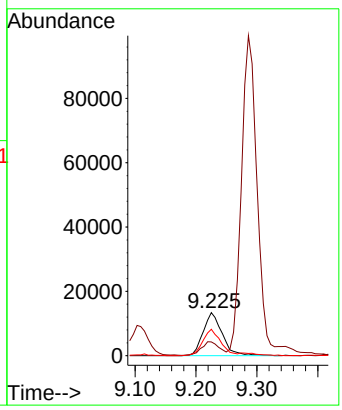
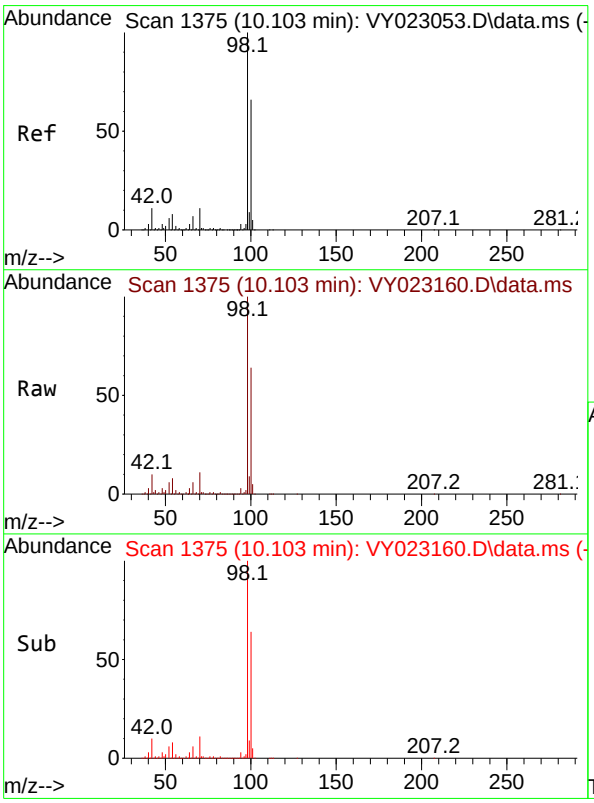
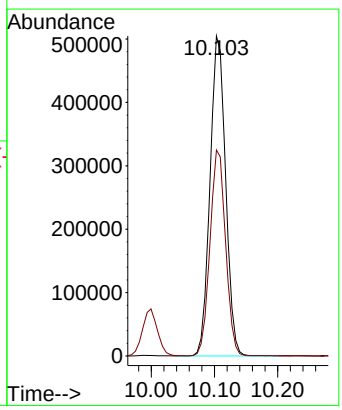


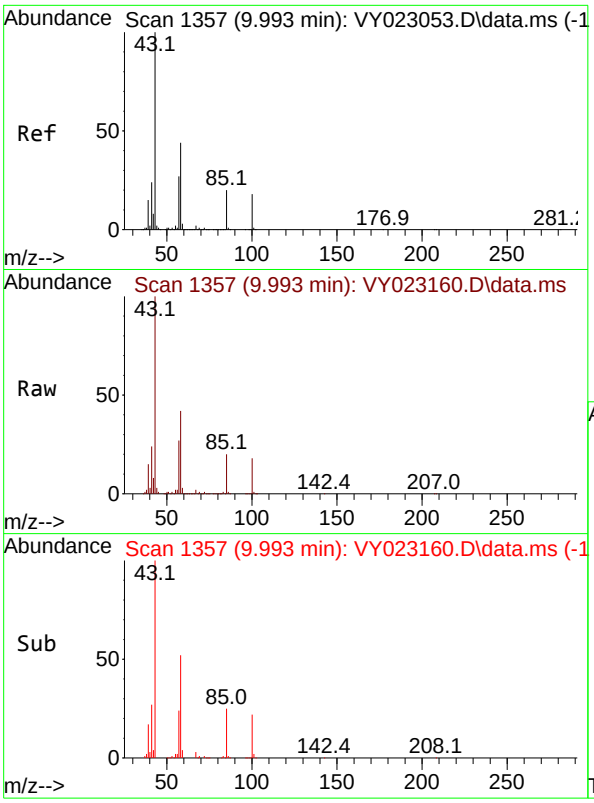


#50
Toluene-d8
Concen: 50.853 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 98 Resp: 864097

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 231.971 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 65671

Ion	Ratio	Lower	Upper
43	100		
58	42.9	33.5	50.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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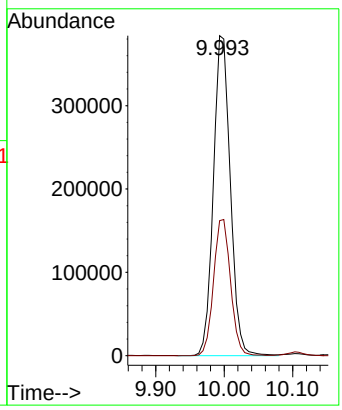
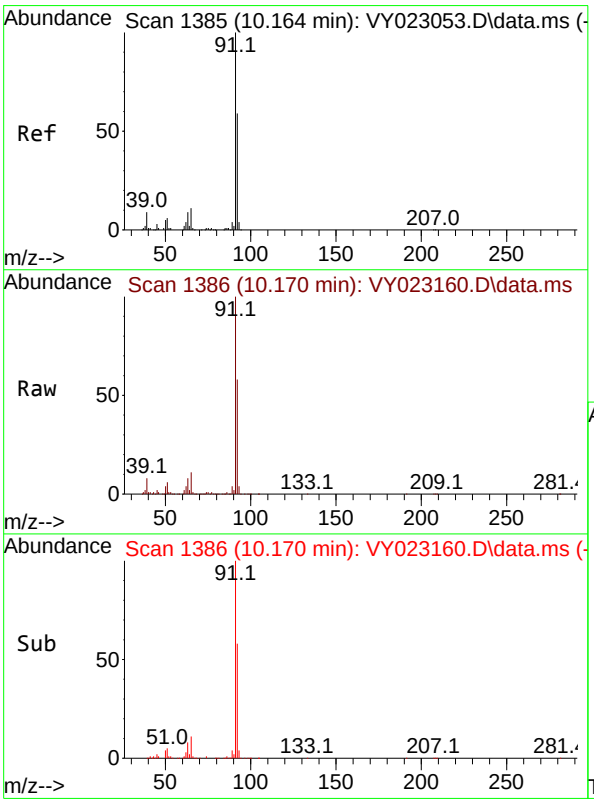
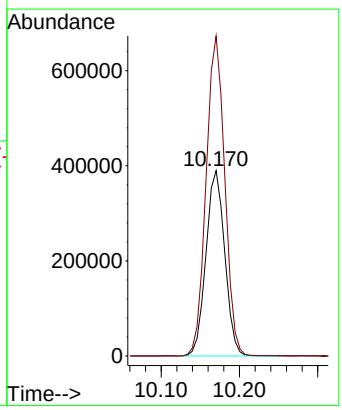


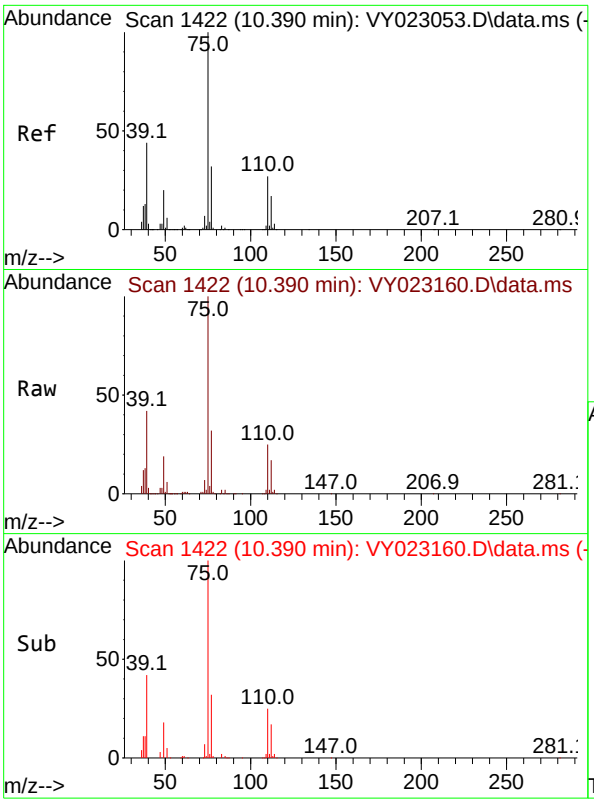


#52
Toluene
Concen: 51.179 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 92 Resp: 647611

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 48.297 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 29610

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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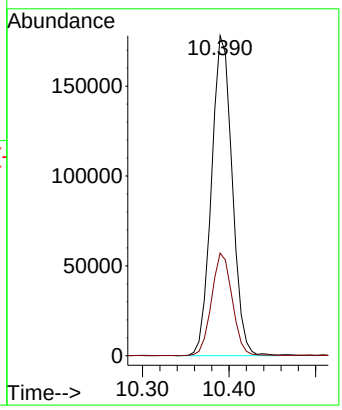
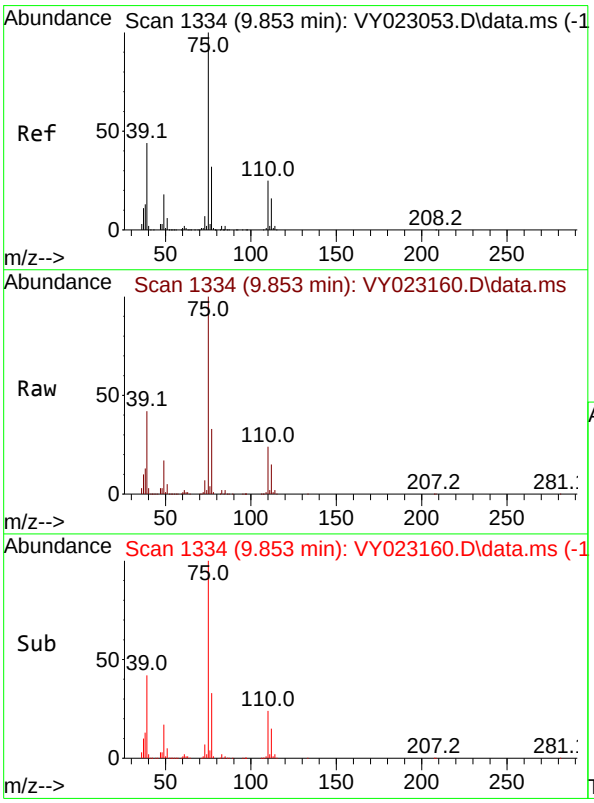
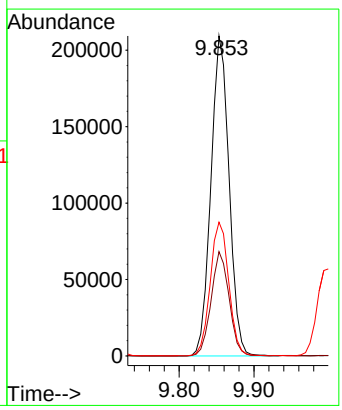


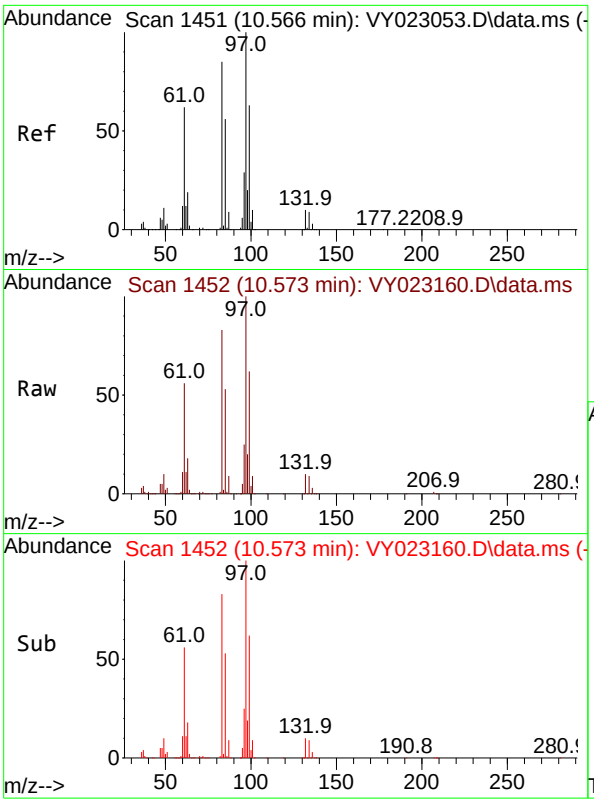


#54
cis-1,3-Dichloropropene
Concen: 48.751 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 353426

Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.4	38.0
39	41.7	35.6	53.4

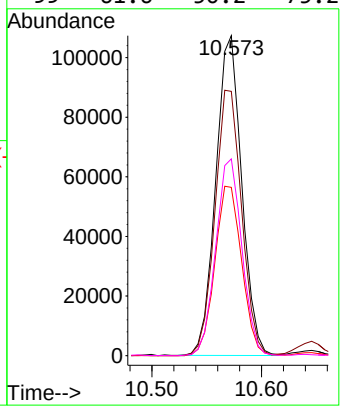




#55
1,1,2-Trichloroethane
Concen: 50.180 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 97 Resp: 17667

Ion	Ratio	Lower	Upper
97	100		
83	82.7	67.7	101.5
85	52.7	44.5	66.7
99	61.6	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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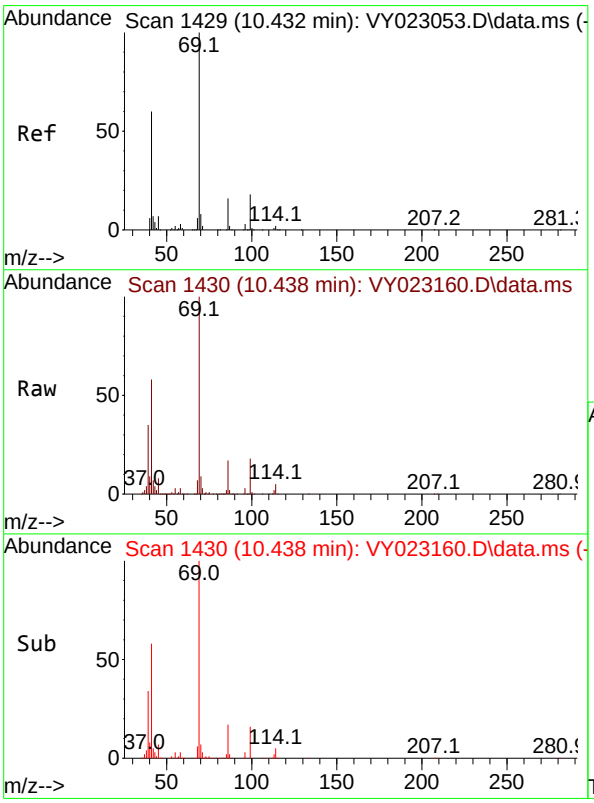
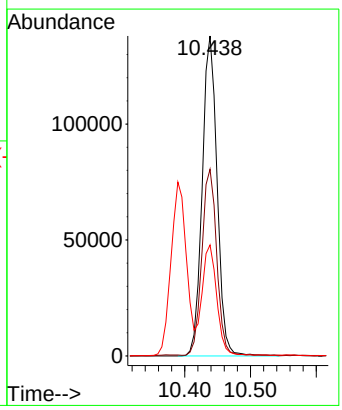
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

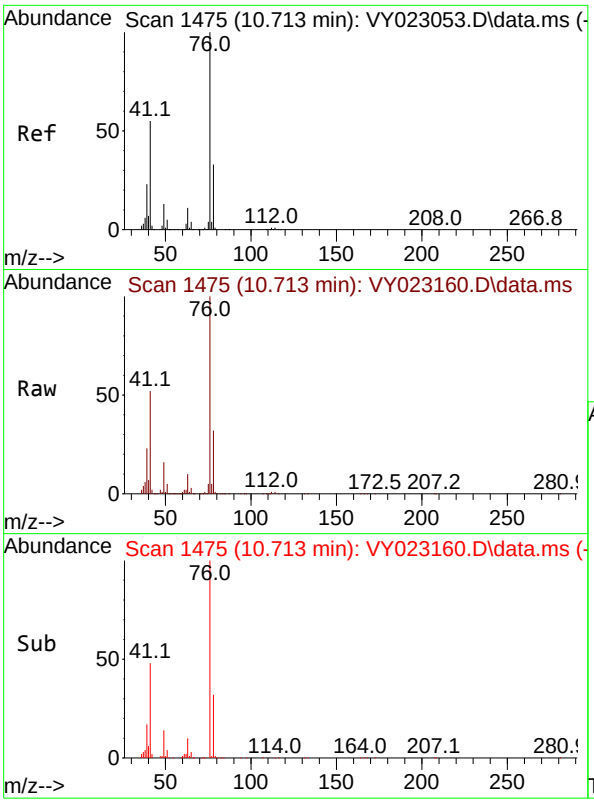


#56
Ethyl methacrylate
Concen: 48.375 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 69 Resp: 217938

Ion	Ratio	Lower	Upper
69	100		
41	58.3	48.6	72.8
39	34.0	27.0	40.4





#57
1,3-Dichloropropane
Concen: 48.952 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 76 Resp: 29229

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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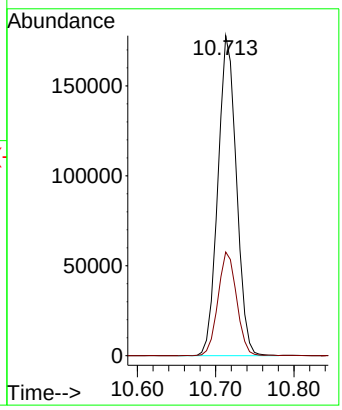
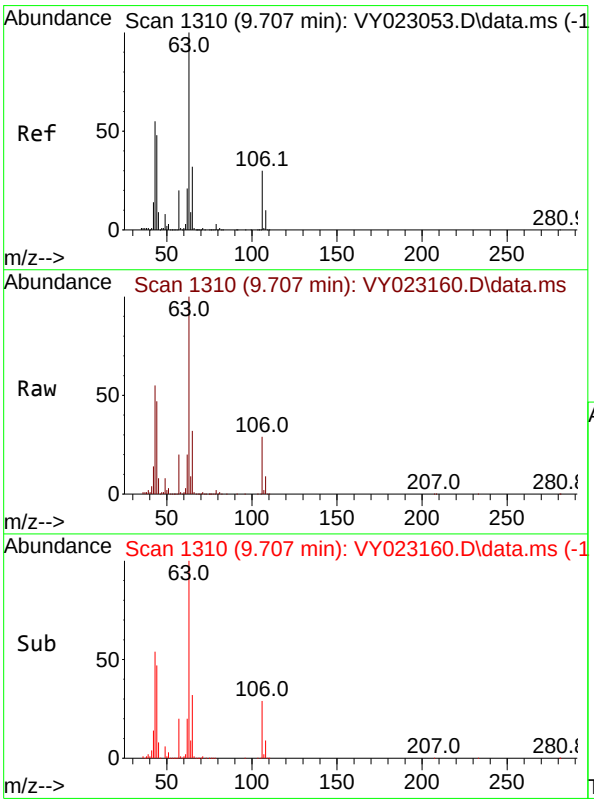
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

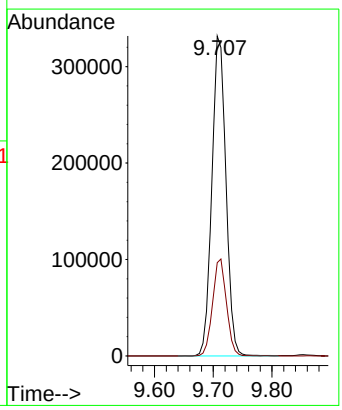


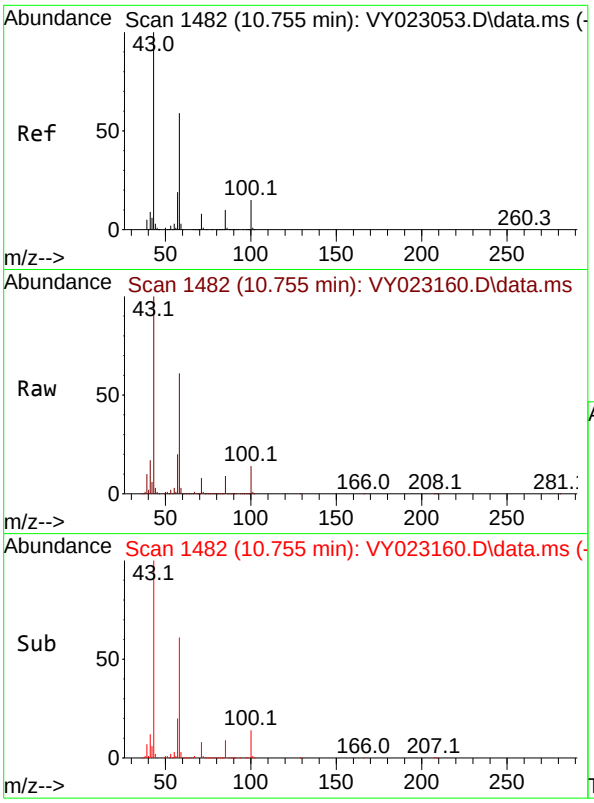


#58
2-Chloroethyl Vinyl ether
Concen: 259.330 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 551100

Ion	Ratio	Lower	Upper
63	100		
106	29.9	23.2	34.8





#59
2-Hexanone
Concen: 225.681 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 43504

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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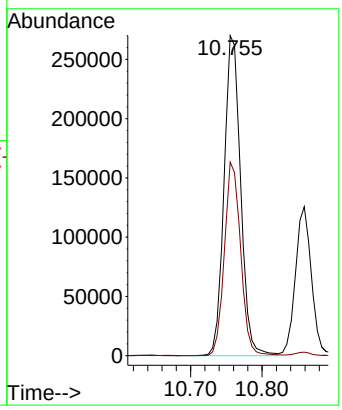
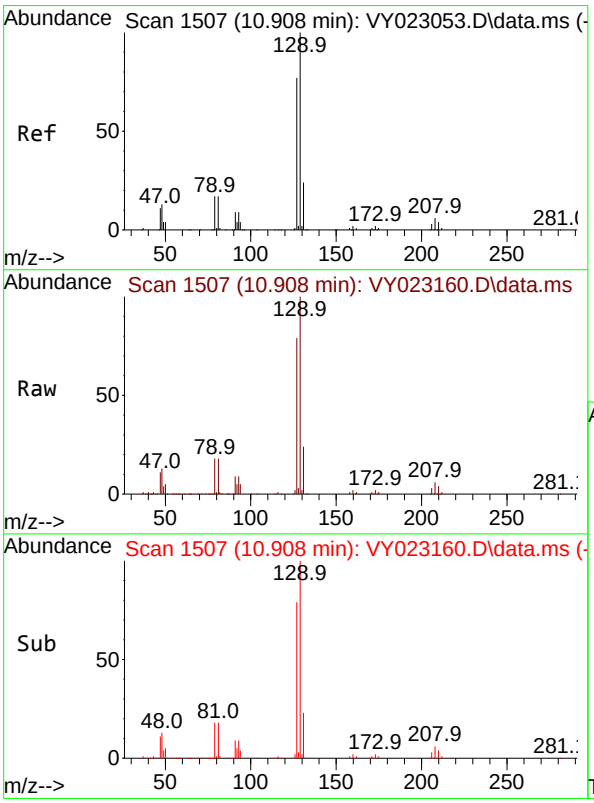
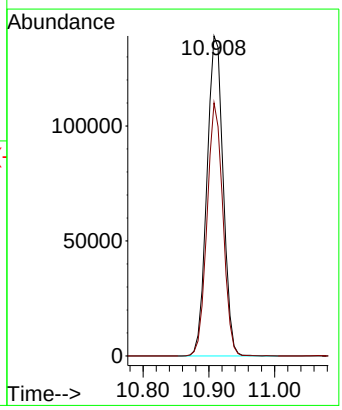


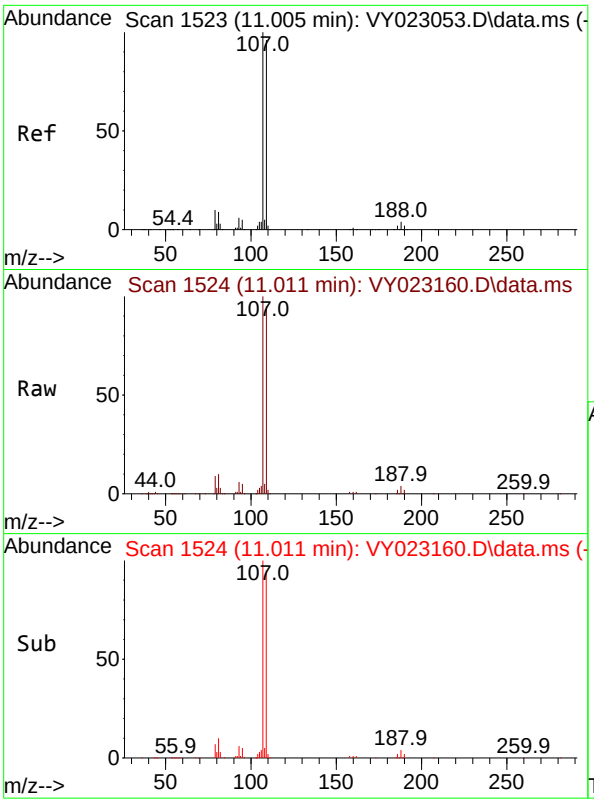


#60
Dibromochloromethane
Concen: 51.365 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:129 Resp: 238623

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5

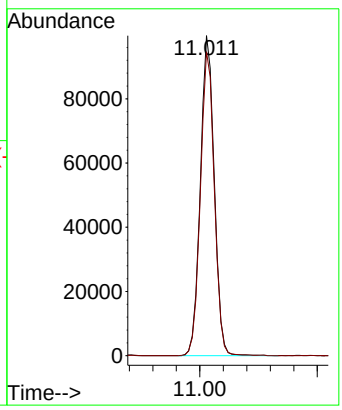




#61
1,2-Dibromoethane
Concen: 49.588 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:107 Resp: 16409

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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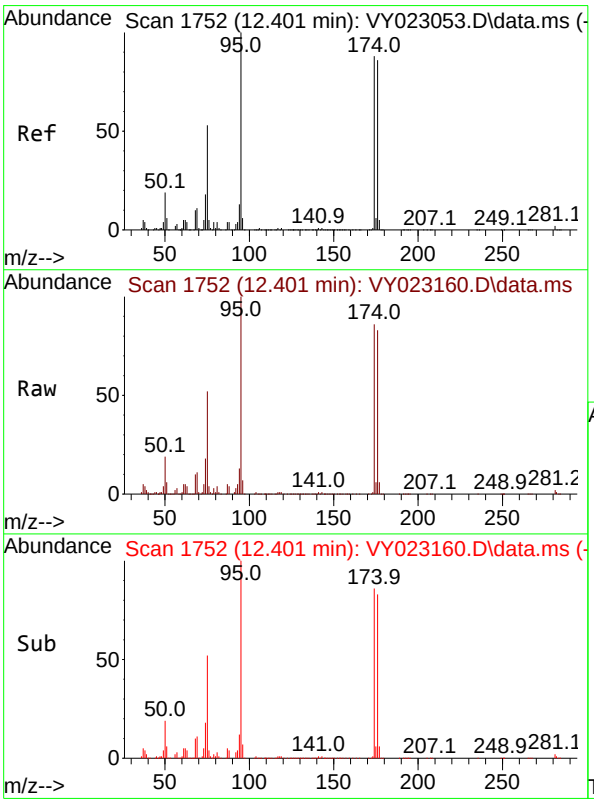
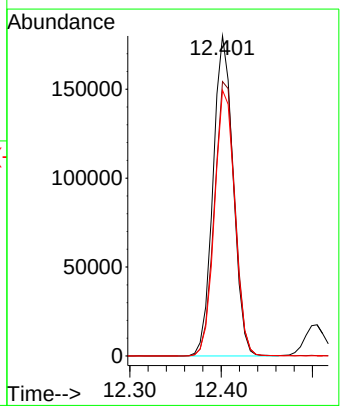
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

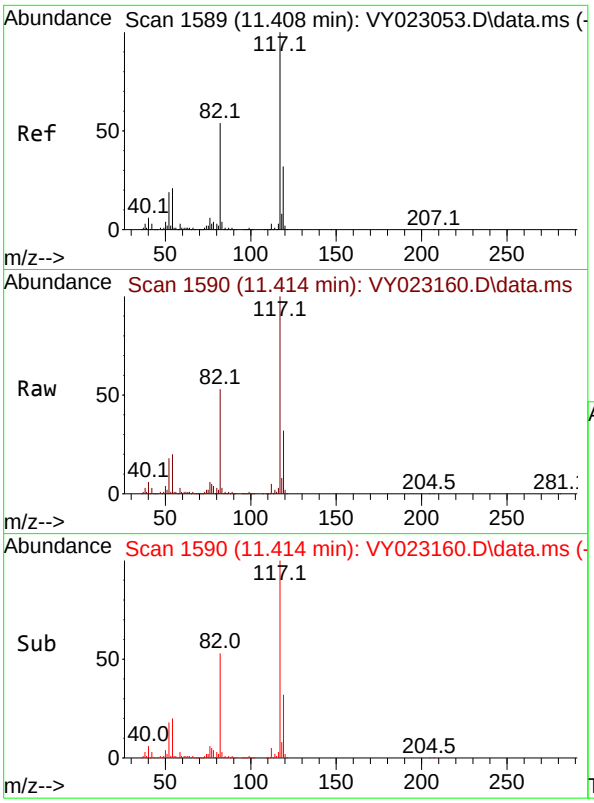


#62
4-Bromofluorobenzene
Concen: 50.308 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 95 Resp: 274917

Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	171.6
176	84.1	0.0	167.6

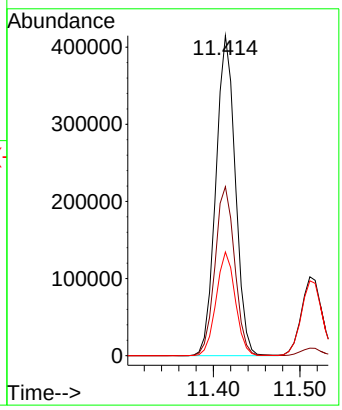




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 64723

Ion	Ratio	Lower	Upper
117	100		
82	52.8	43.4	65.0
119	32.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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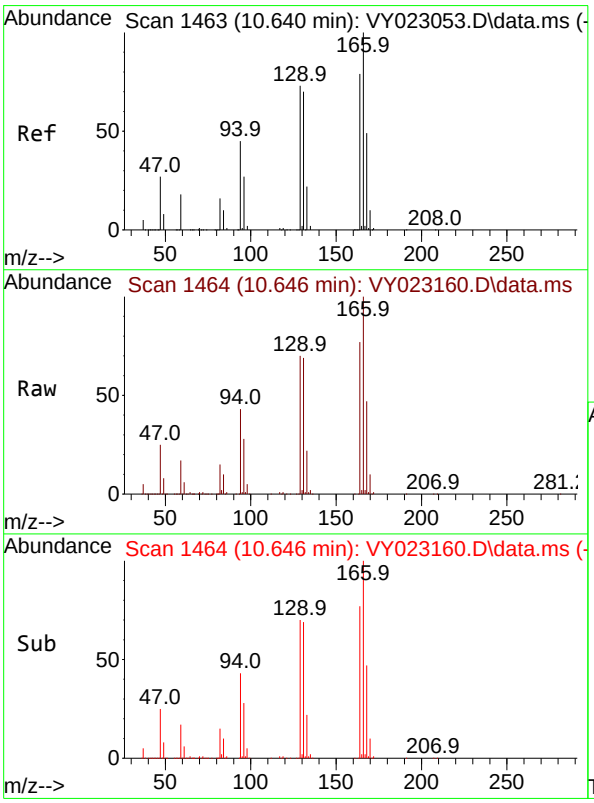
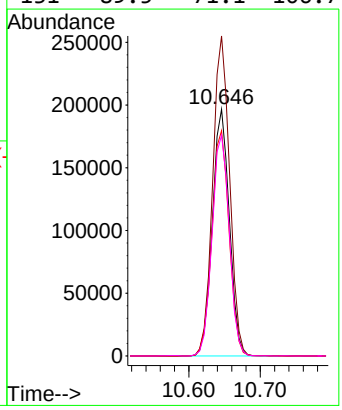
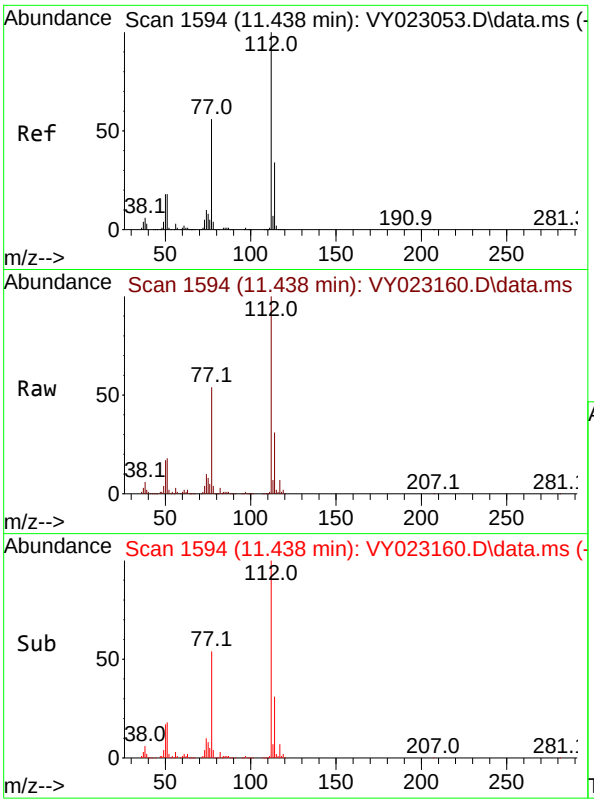


#64
Tetrachloroethene
Concen: 56.055 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:164 Resp: 323963

Ion	Ratio	Lower	Upper
164	100		
166	129.7	101.1	151.7
129	91.3	74.0	111.0
131	89.5	71.1	106.7

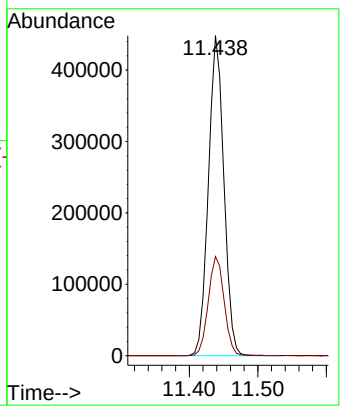




#65
Chlorobenzene
Concen: 50.434 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:112 Resp: 70410

Ion	Ratio	Lower	Upper
112	100		
114	31.0	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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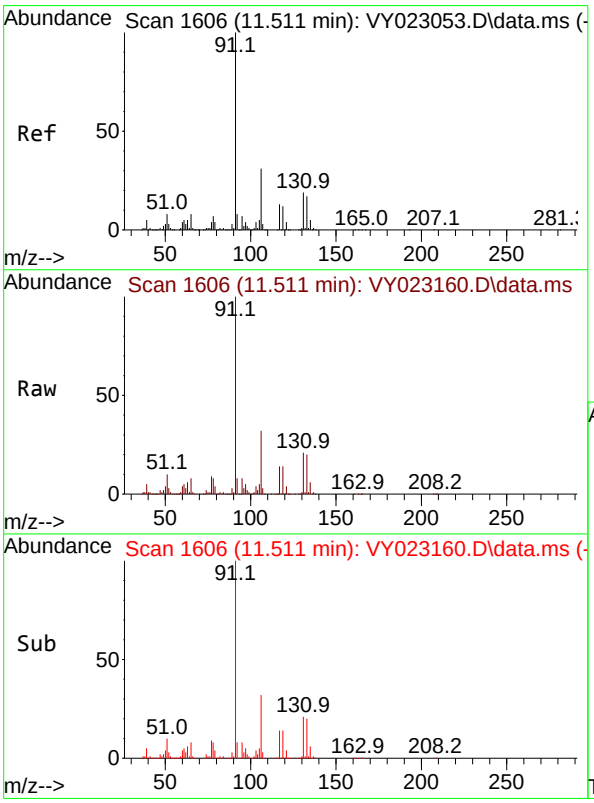
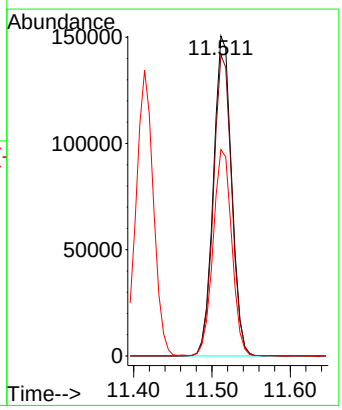
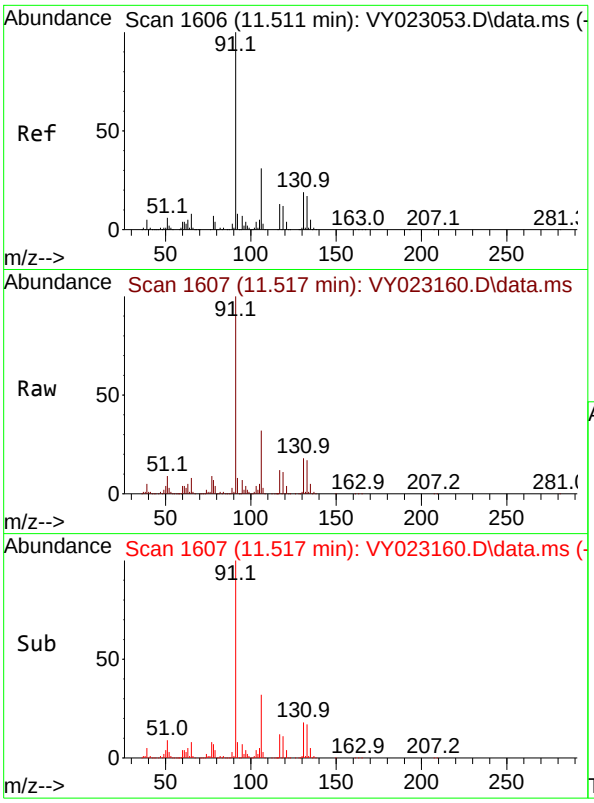


#66
1,1,1,2-Tetrachloroethane
Concen: 51.411 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:131 Resp: 243596

Ion	Ratio	Lower	Upper
131	100		
133	94.2	46.9	140.6
119	66.4	33.2	99.6





#67
Ethyl Benzene
Concen: 50.888 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 122260

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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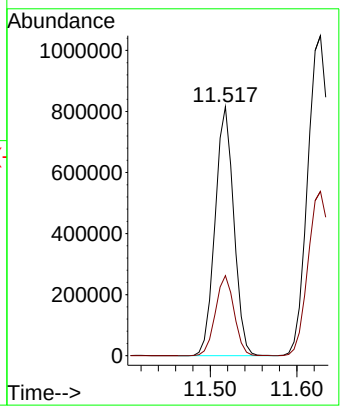
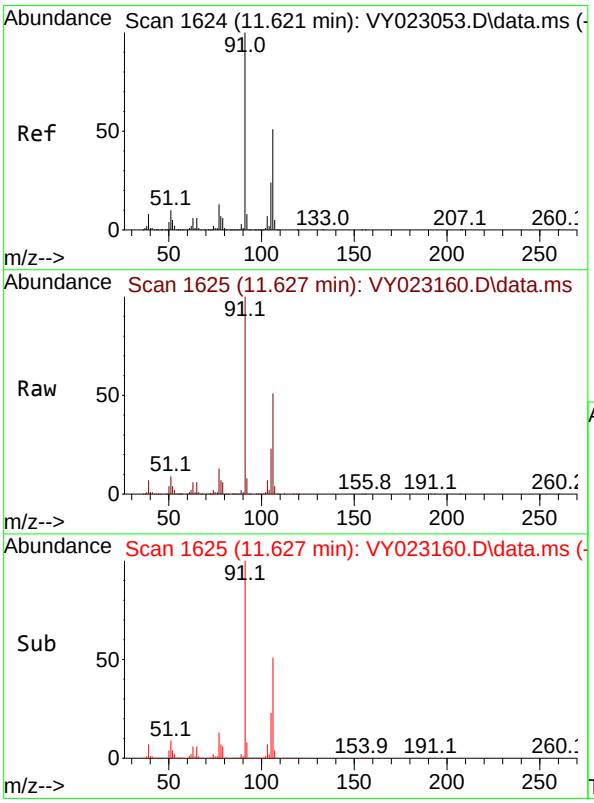
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

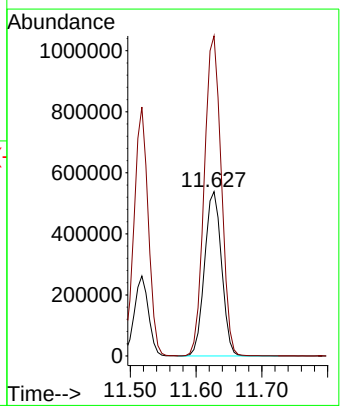


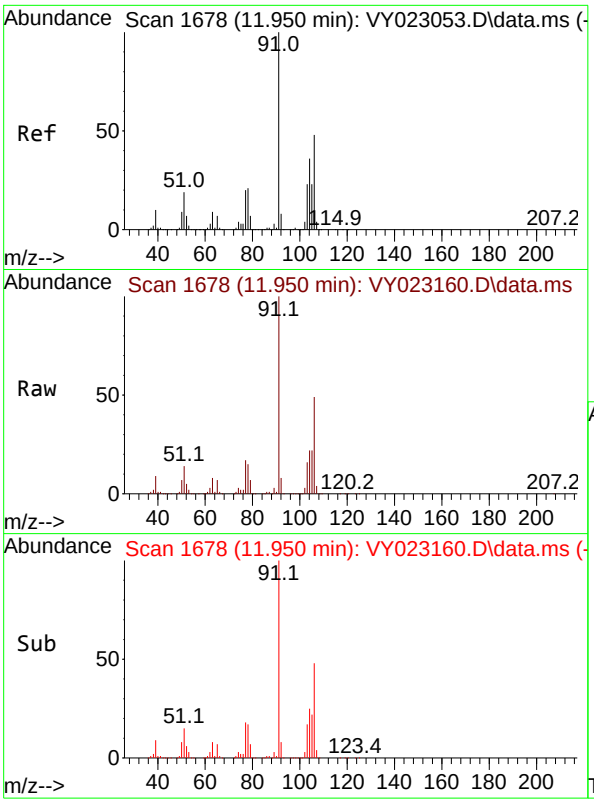


#68
m/p-Xylenes
Concen: 103.051 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 966978

Ion	Ratio	Lower	Upper
106	100		
91	194.8	158.6	238.0





#69
o-Xylene
Concen: 51.799 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 45523

Ion	Ratio	Lower	Upper
106	100		
91	204.7	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :John Carlone 08/20/2025
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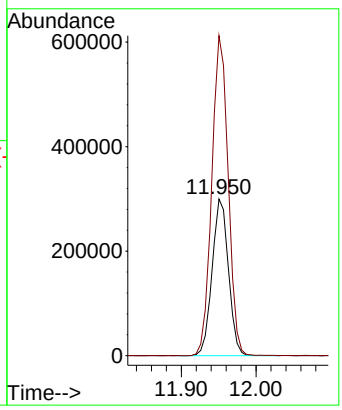
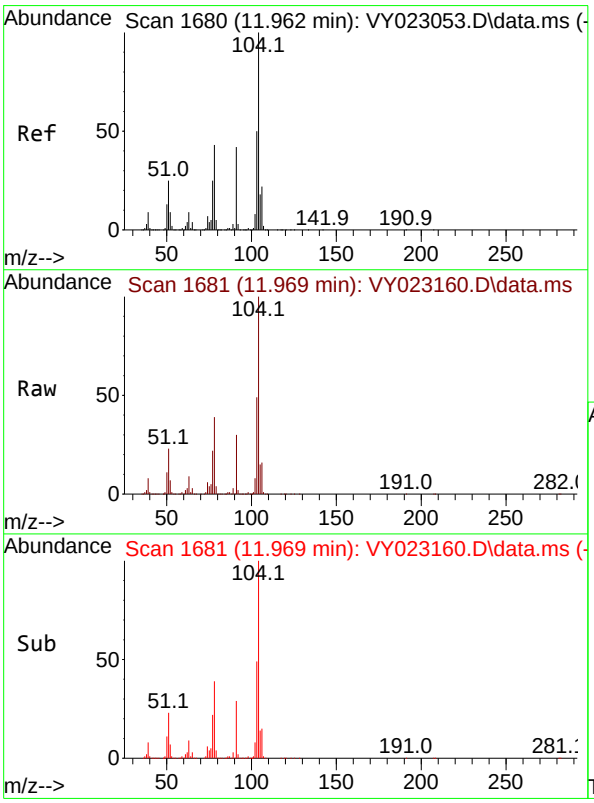
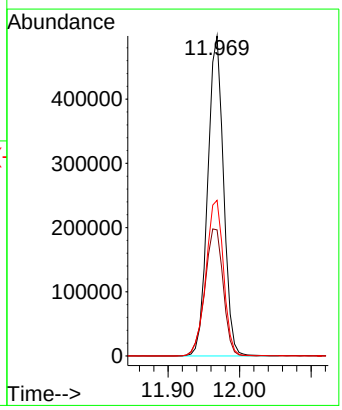


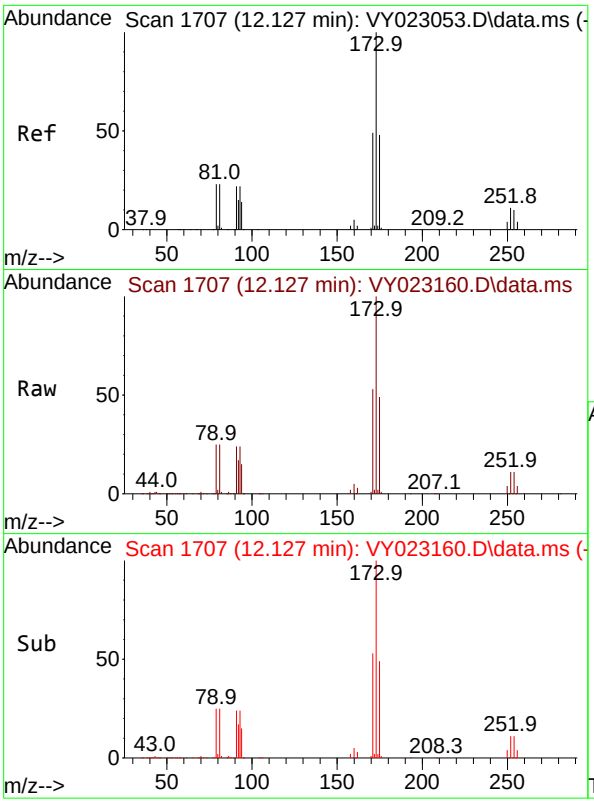


#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:104 Resp: 763639

Ion	Ratio	Lower	Upper
104	100		
78	46.1	38.5	57.7
103	54.4	43.7	65.5





#71
Bromoform
Concen: 48.980 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:173 Resp: 13563

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.2	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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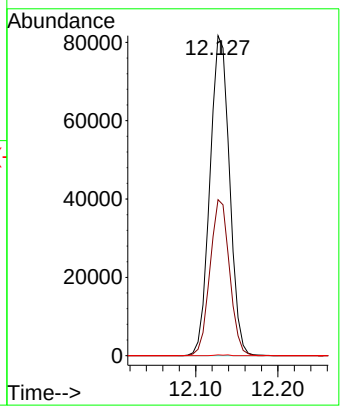
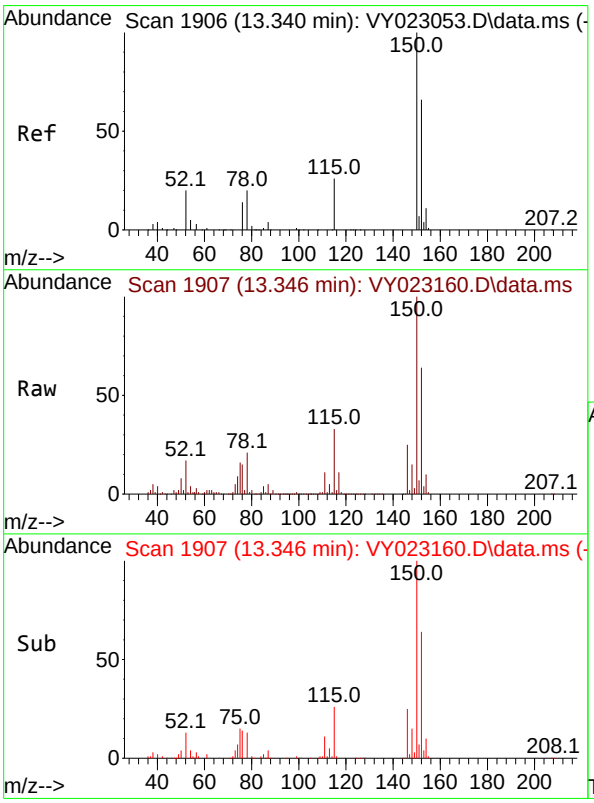
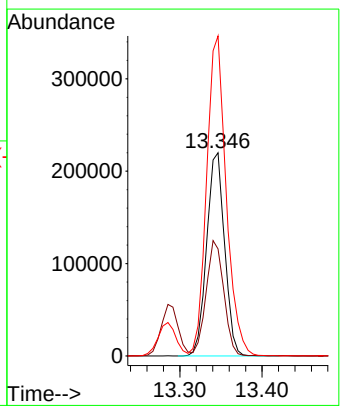


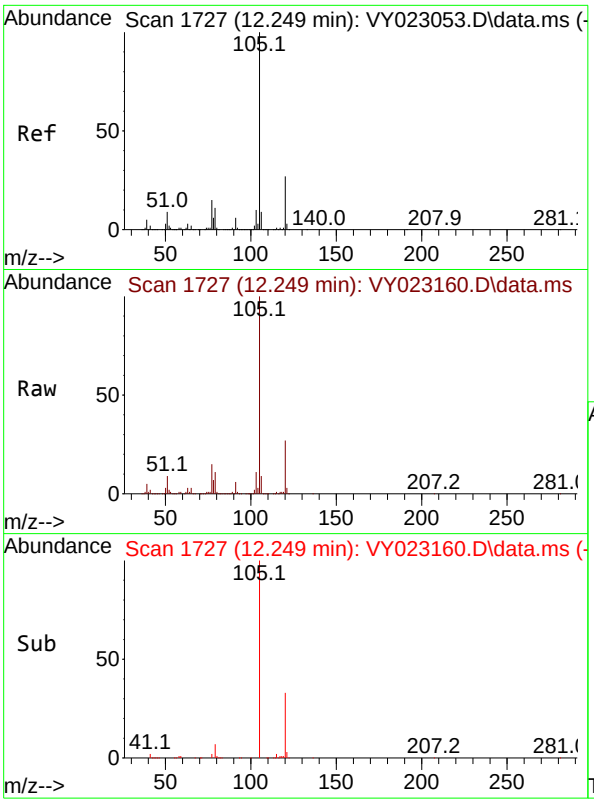


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:152 Resp: 333557

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.2	84.6
150	171.6	0.0	348.0





#73
Isopropylbenzene
Concen: 49.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 116133

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
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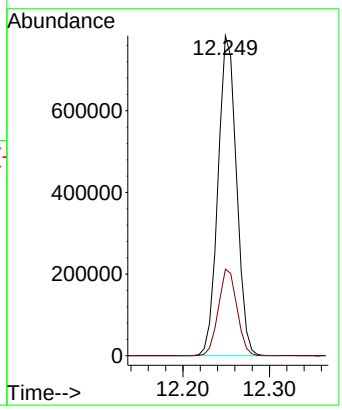
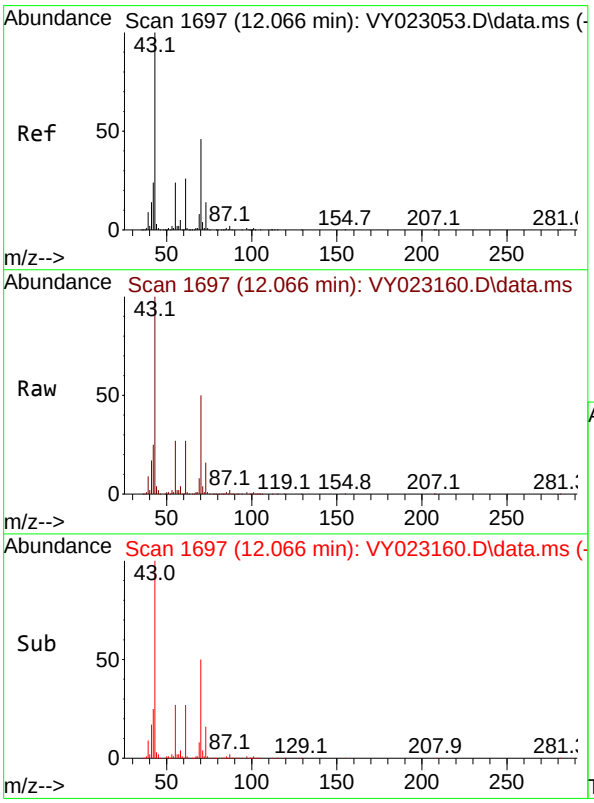
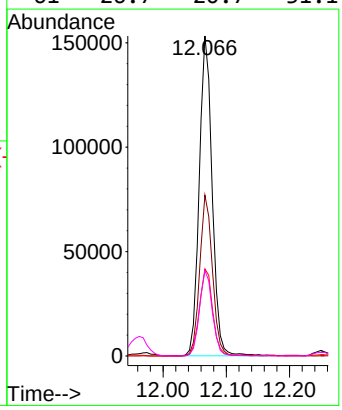


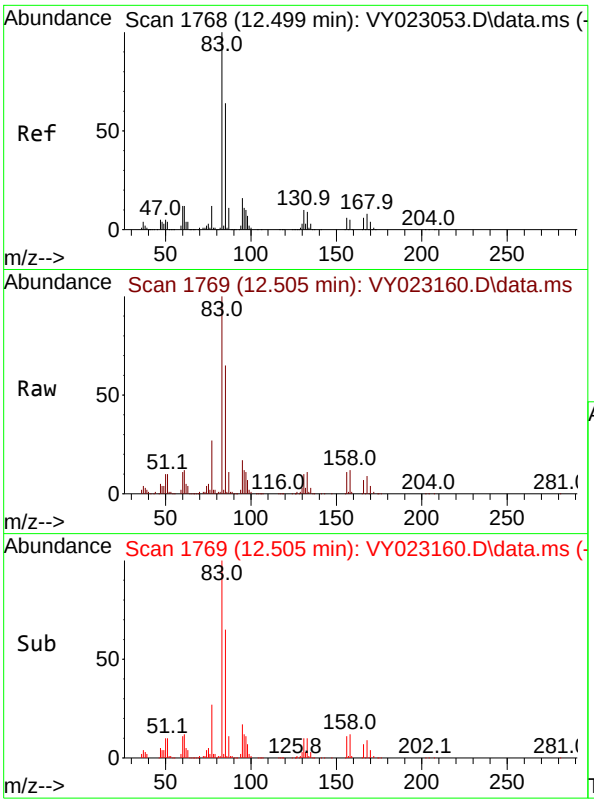


#74
N-amyl acetate
Concen: 43.613 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 217737

Ion	Ratio	Lower	Upper
43	100		
70	49.5	37.5	56.3
55	28.2	20.7	31.1
61	26.7	20.7	31.1

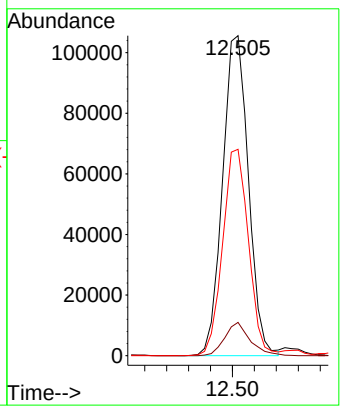




#75
1,1,2,2-Tetrachloroethane
Concen: 43.025 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 17295

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	64.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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Reviewed By :John Carlone 08/20/2025
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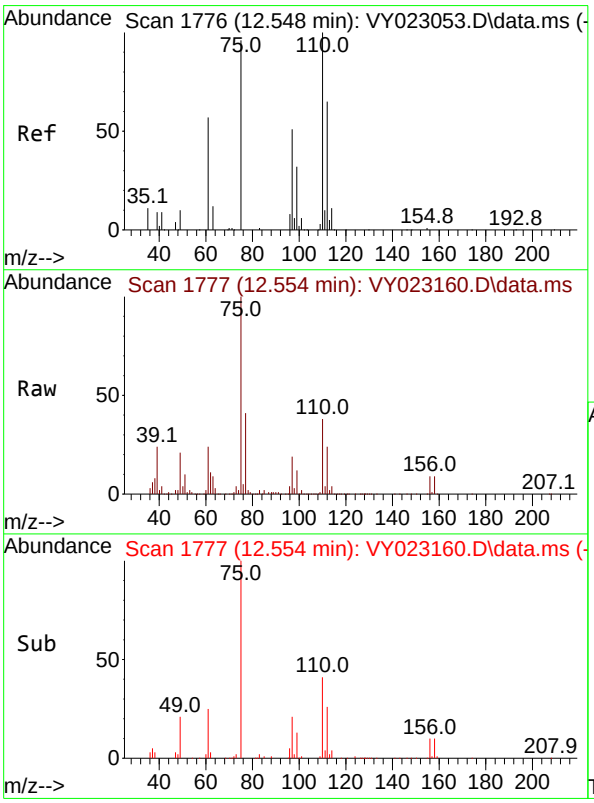
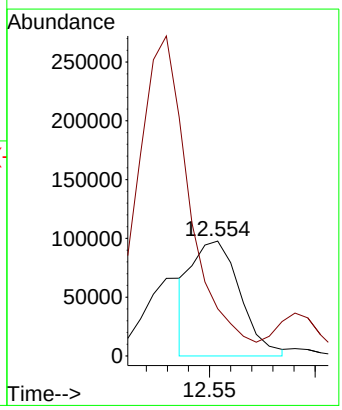
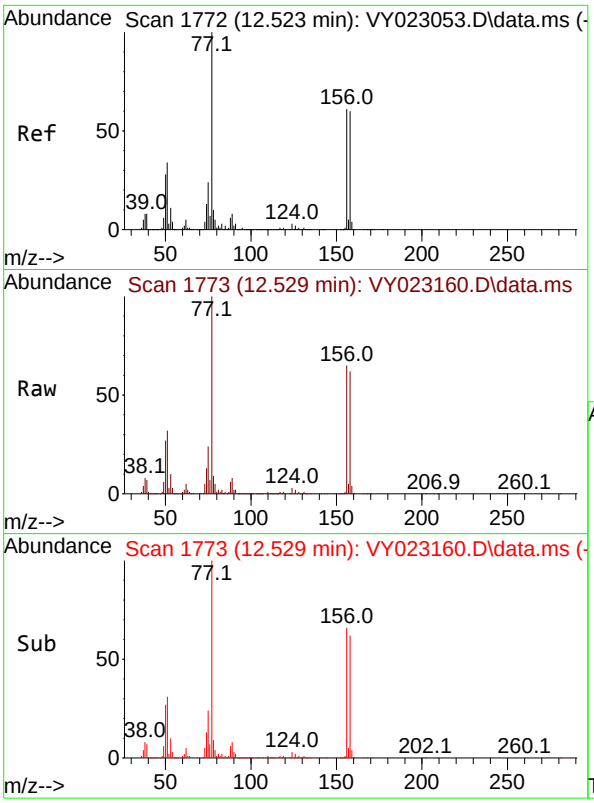


#76
1,2,3-Trichloropropane
Concen: 48.345 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 155632

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 48.690 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:156 Resp: 27346

Ion	Ratio	Lower	Upper
156	100		
77	172.9	88.1	264.4
158	97.9	48.0	144.0

Instrument :
MSVOA_Y
ClientSampleId :
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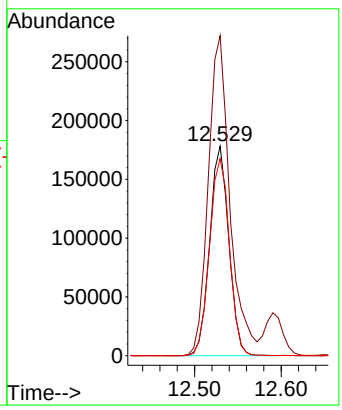
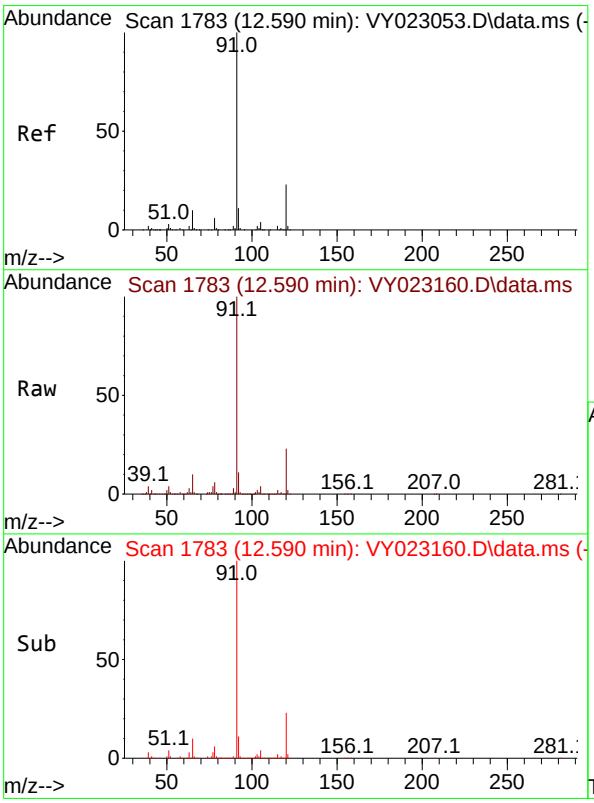
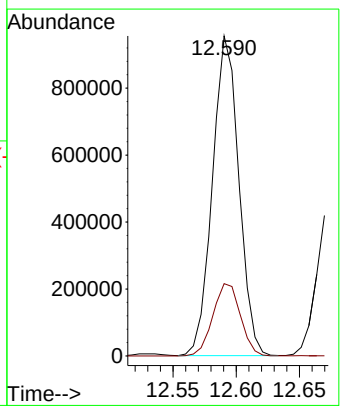


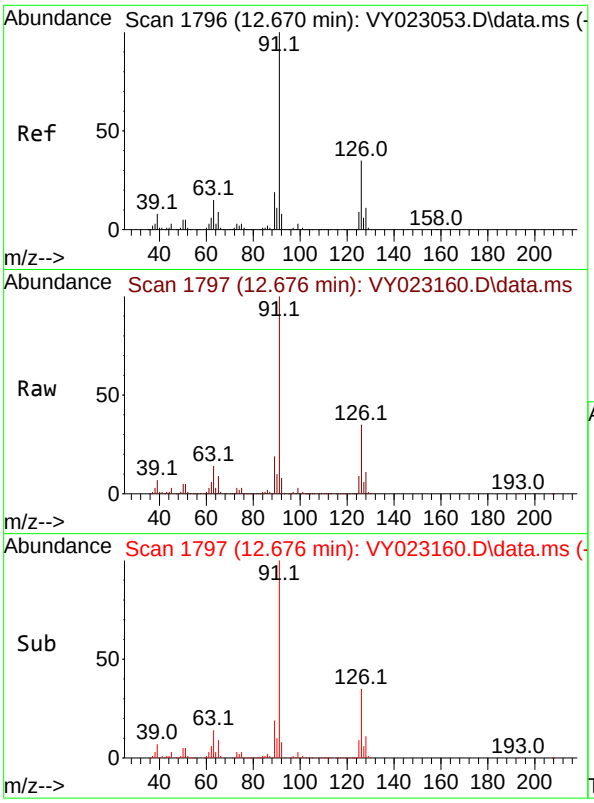


#78
n-propylbenzene
Concen: 49.502 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 1387452

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5





#79
2-Chlorotoluene
Concen: 48.829 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 78414

Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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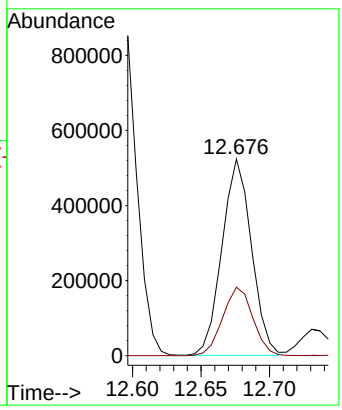
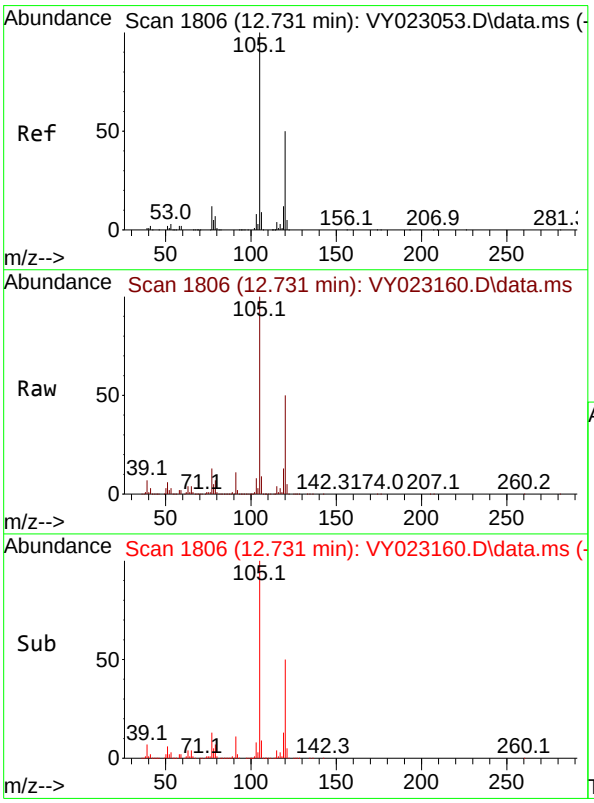
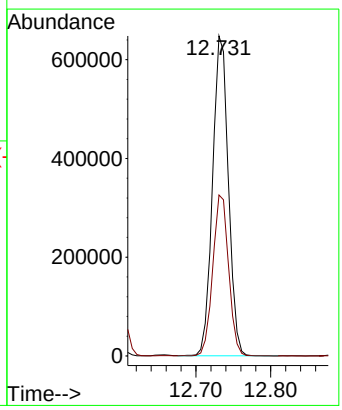


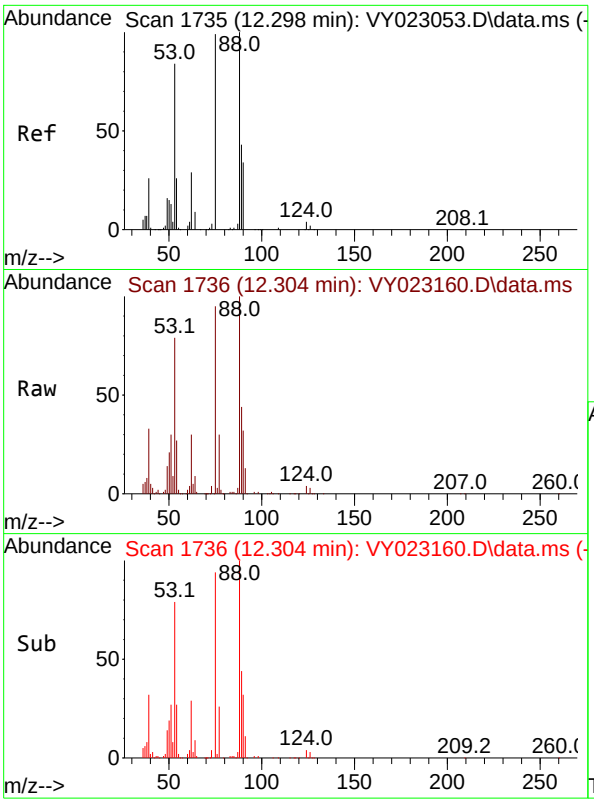


#80
1,3,5-Trimethylbenzene
Concen: 50.180 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 954748

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 43.134 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 5736

Ion	Ratio	Lower	Upper
75	100		
53	87.5	70.8	106.2
89	47.4	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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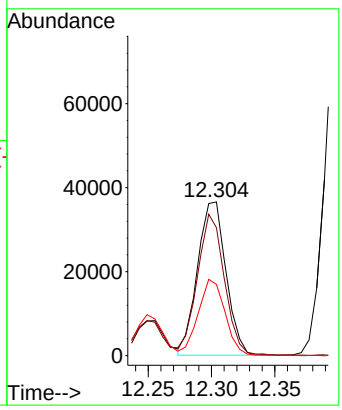
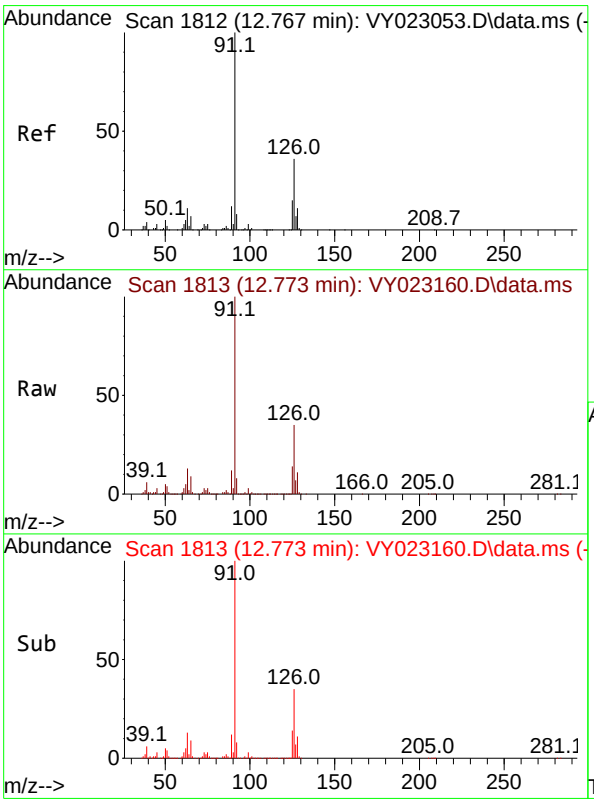
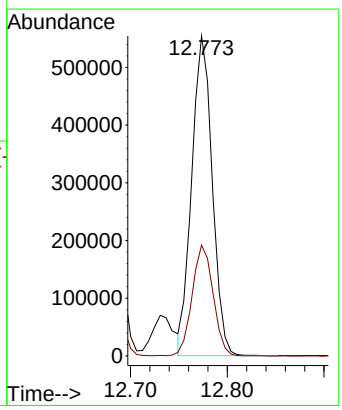


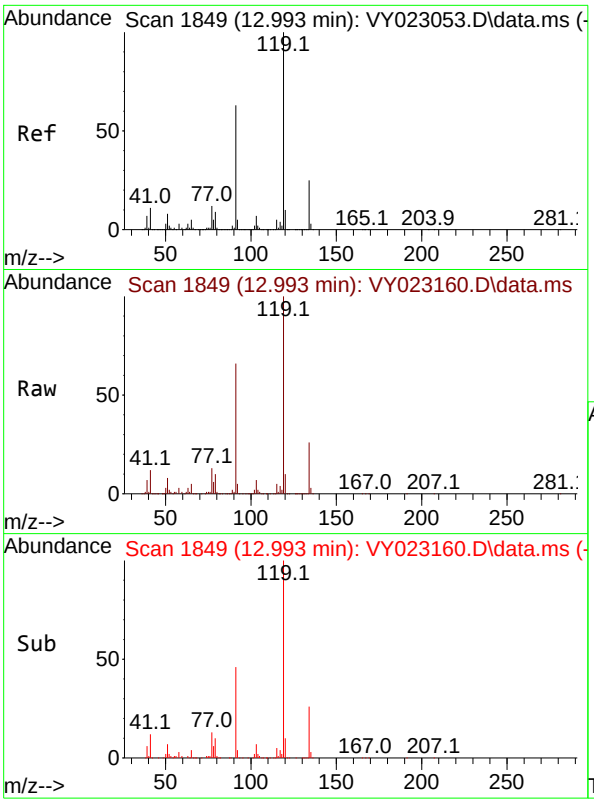


#82
4-Chlorotoluene
Concen: 48.995 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 816232

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	52.0

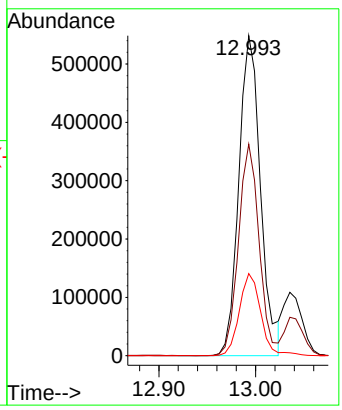




#83
tert-Butylbenzene
Concen: 49.921 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:119 Resp: 85785

Ion	Ratio	Lower	Upper
119	100		
91	63.0	31.6	94.8
134	25.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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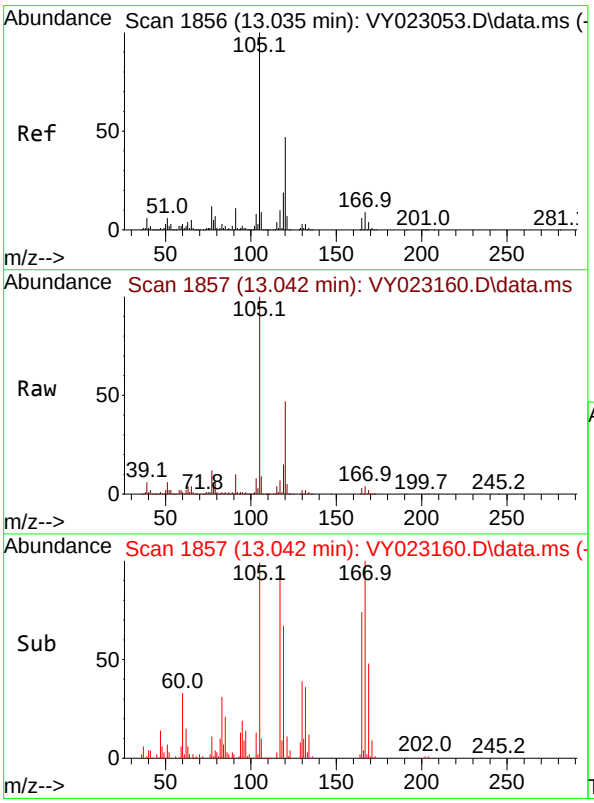
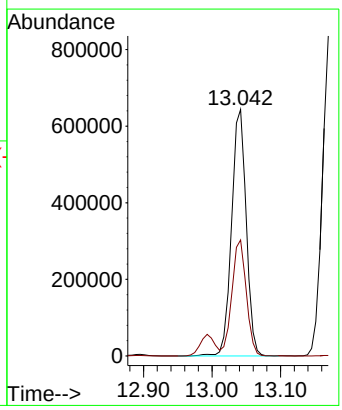
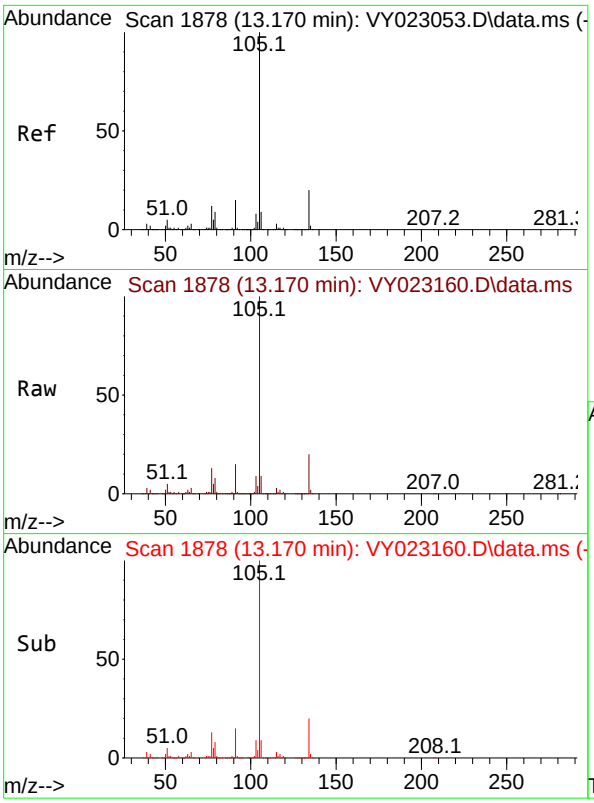


#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 956661

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.0	69.0

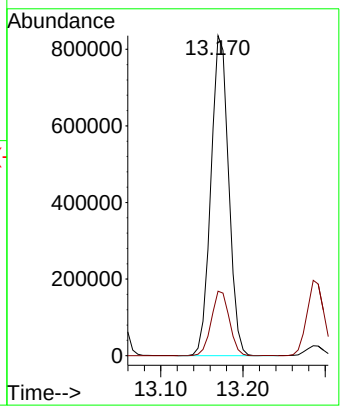




#85
sec-Butylbenzene
Concen: 49.485 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 124916

Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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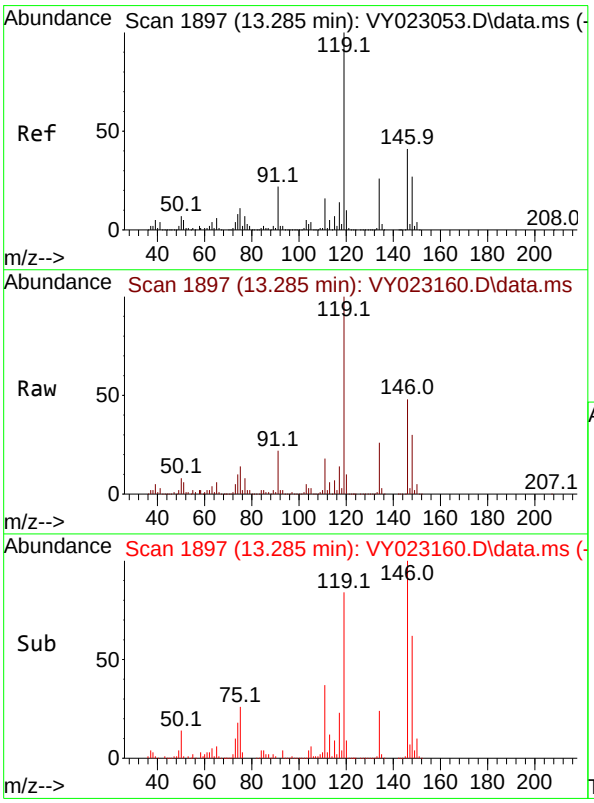
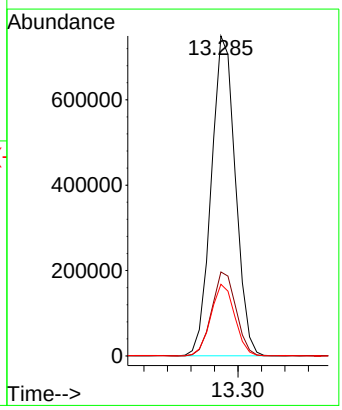
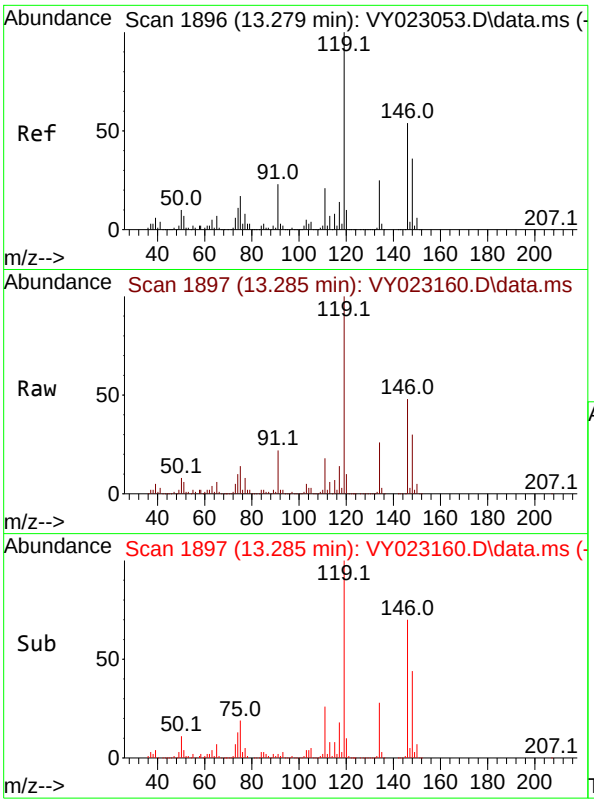


#86
p-Isopropyltoluene
Concen: 50.842 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:119 Resp: 1065308

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	22.3	11.3	33.8

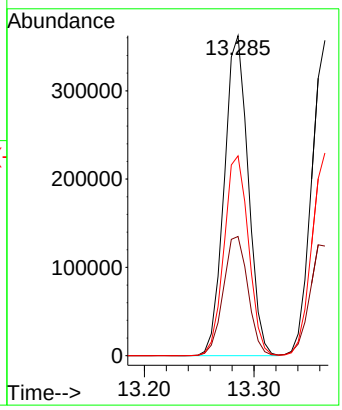




#87
1,3-Dichlorobenzene
Concen: 49.644 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 54983

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.7
148	63.8	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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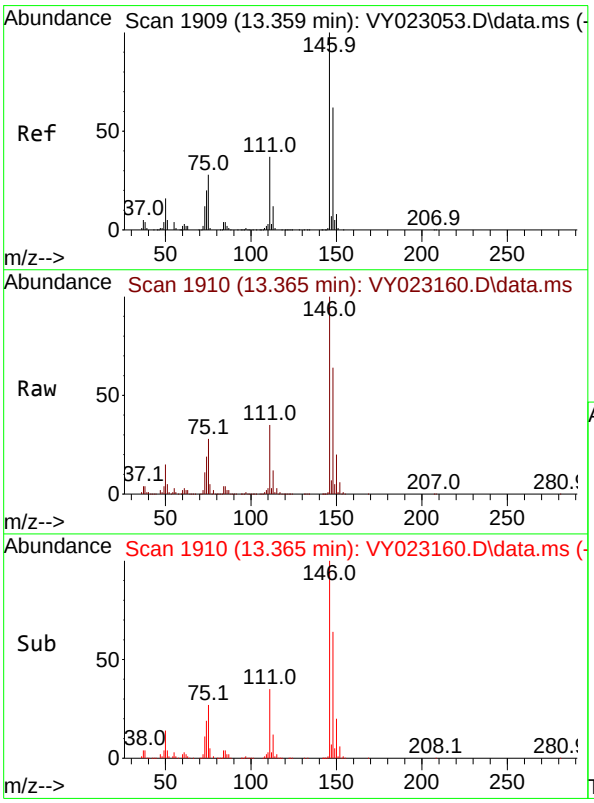
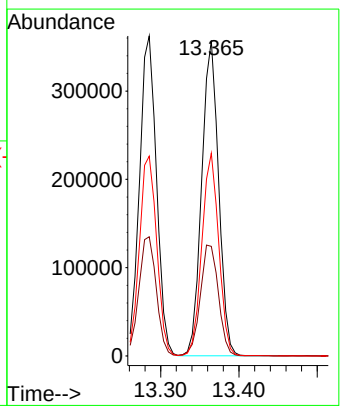
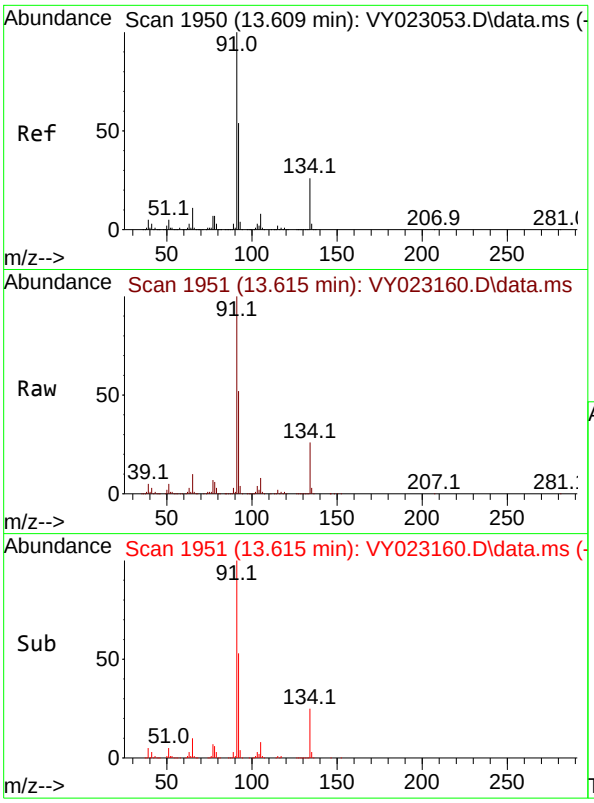


#88
1,4-Dichlorobenzene
Concen: 48.611 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 534086

Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.1
148	64.3	31.6	94.7

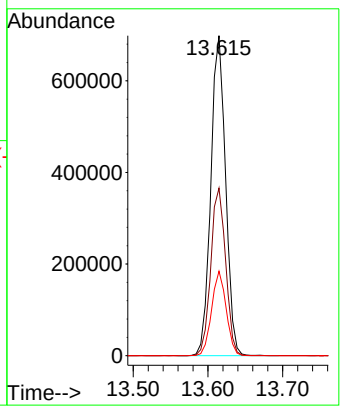




#89
n-Butylbenzene
Concen: 49.746 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 95733

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.9	80.7
134	26.1	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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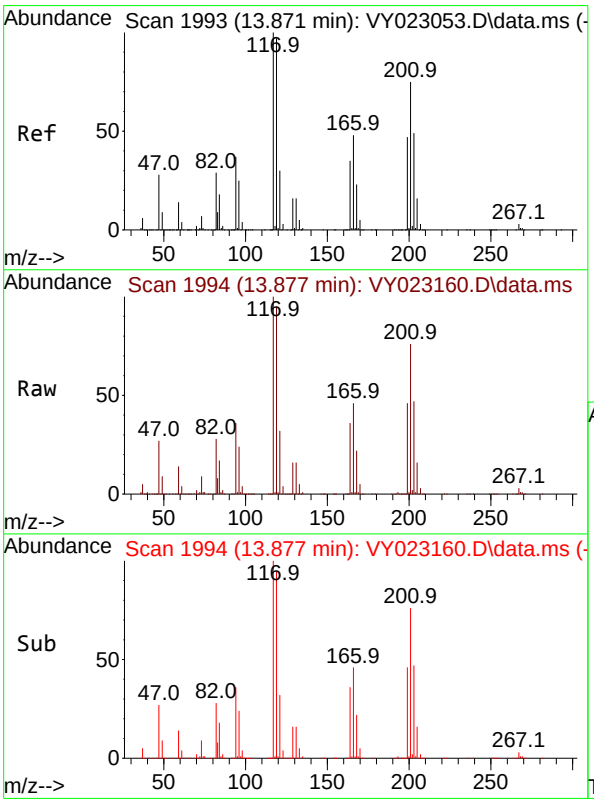
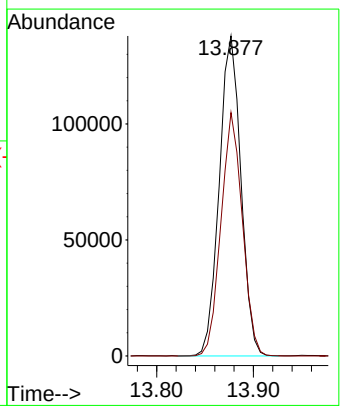
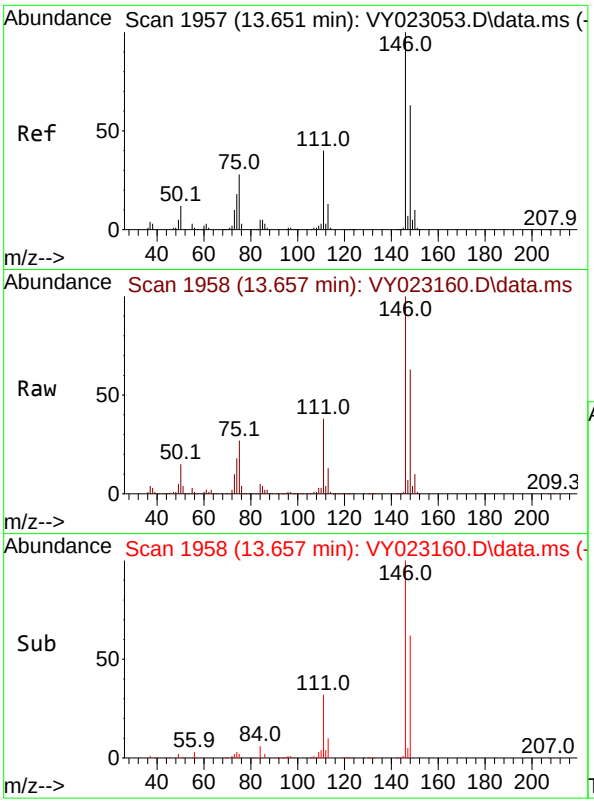


#90
Hexachloroethane
Concen: 50.008 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 214503

Ion	Ratio	Lower	Upper
117	100		
201	75.0	38.4	115.1

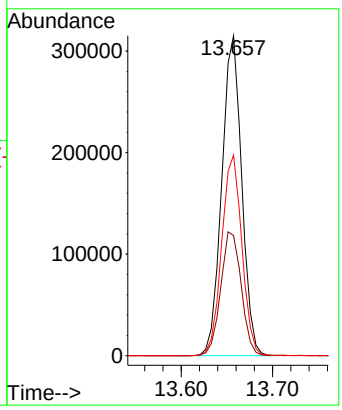




#91
1,2-Dichlorobenzene
Concen: 49.177 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 47768

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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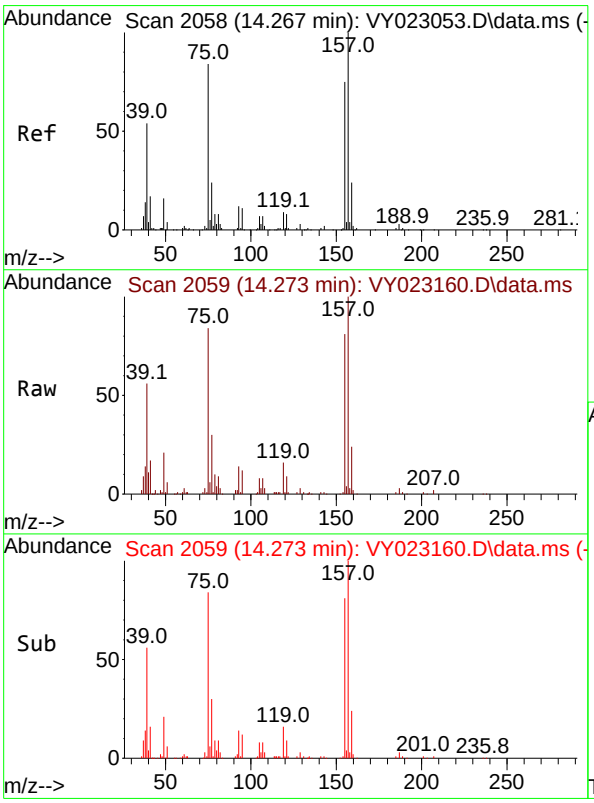
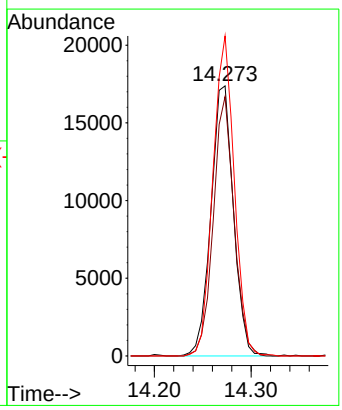
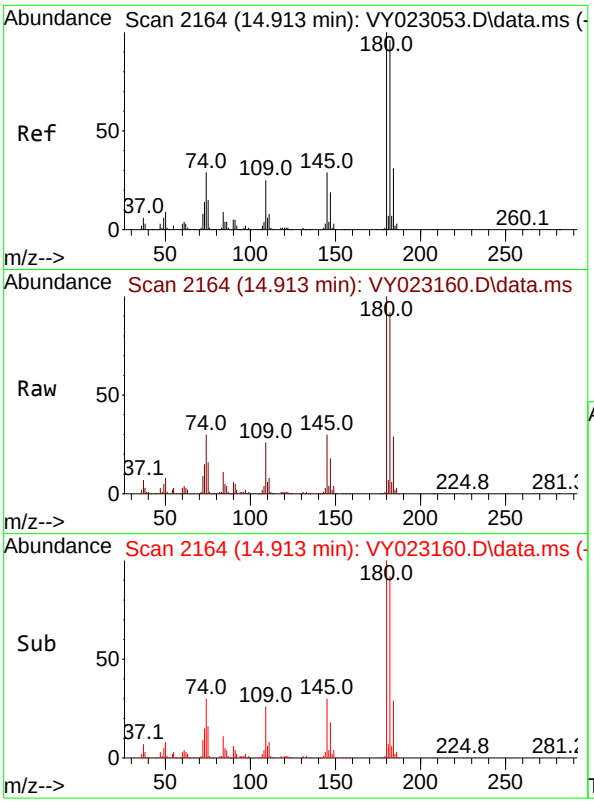


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 28063

Ion	Ratio	Lower	Upper
75	100		
155	88.7	43.9	131.6
157	112.5	57.2	171.6

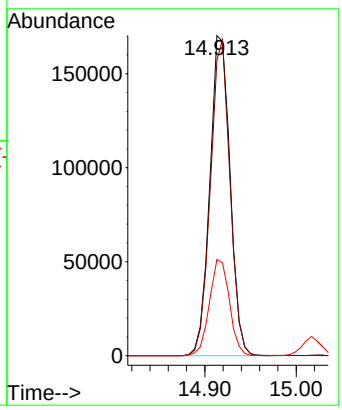




#93
1,2,4-Trichlorobenzene
Concen: 45.553 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 26166

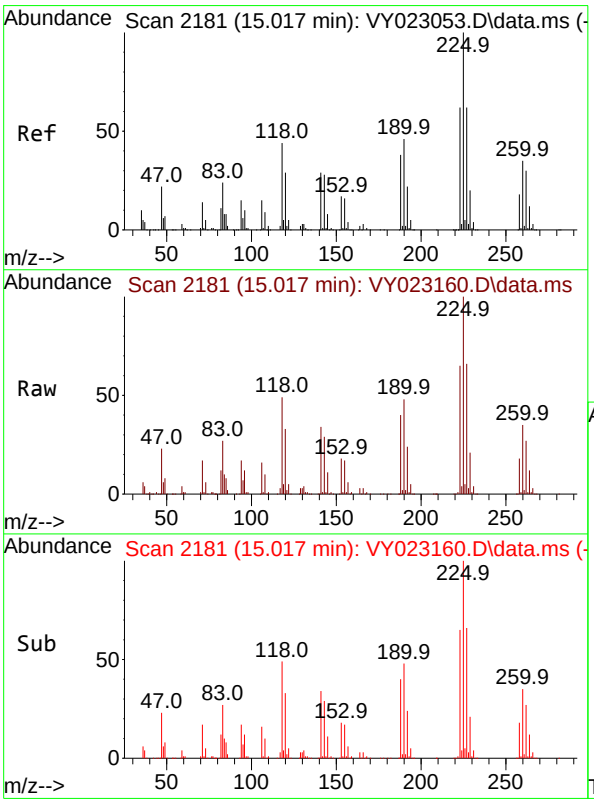
Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

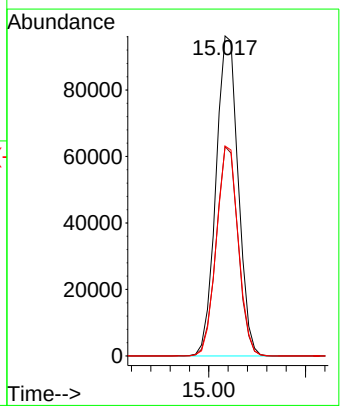
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

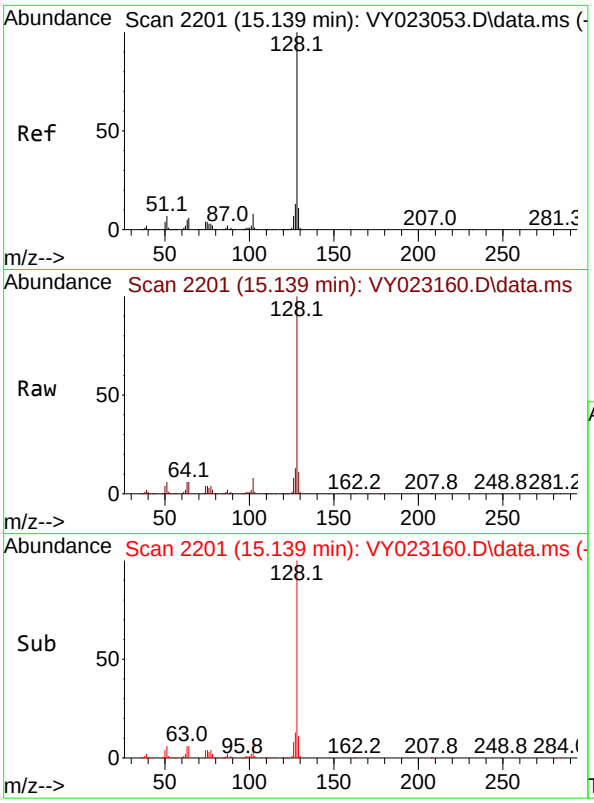


#94
Hexachlorobutadiene
Concen: 45.434 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:225 Resp: 153359

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.3	93.8
227	64.6	31.5	94.5

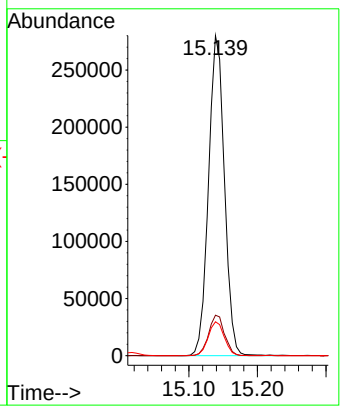




#95
Naphthalene
Concen: 46.168 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:128 Resp: 45221

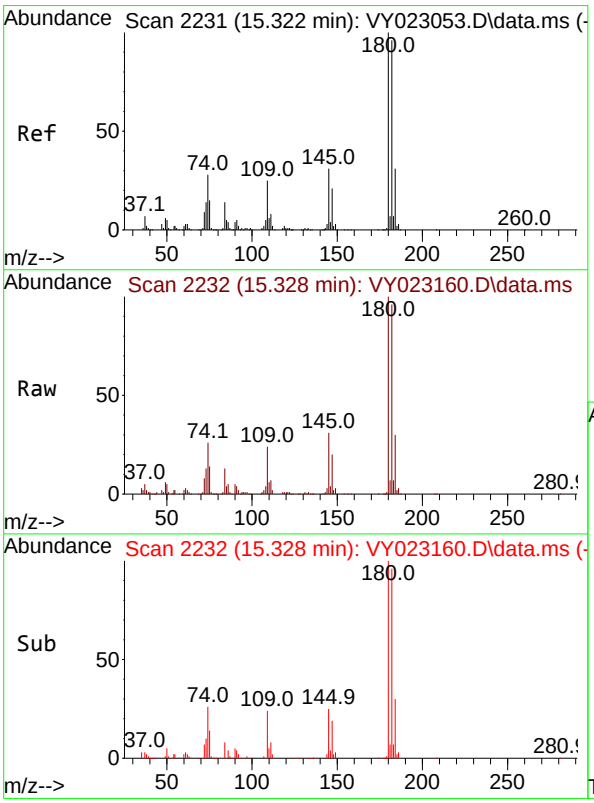
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.7	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

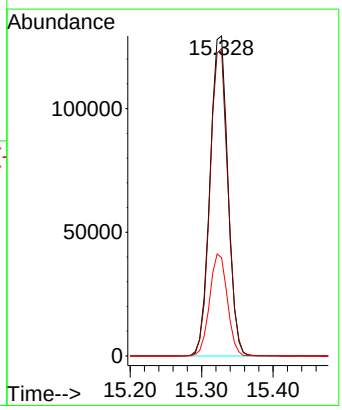
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 45.311 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 224276

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.7
145	31.5	15.9	47.7



Sample Results: **VY023160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	0.408	0.320	21.6	77	0.00
3	P	Chloromethane	0.661	0.610	7.7	85	0.00
4	C	Vinyl Chloride	0.817	0.782	4.3#	86	0.00
5	T	Bromomethane	0.610	0.614	-0.7	96	0.00
6	T	Chloroethane	0.543	0.553	-1.8	90	0.00
7	T	Trichlorofluoromethane	0.994	0.893	10.2	80	0.00
8	T	Diethyl Ether	0.263	0.245	6.8	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.442	9.8	81	0.00
10	T	Methyl Iodide	0.529	0.581	-9.8	89	0.00
11	T	Tert butyl alcohol	0.033	0.028	15.2	73	0.00
12	CM	1,1-Dichloroethene	0.482	0.454	5.8#	83	0.00
13	T	Acrolein	0.048	0.021	56.3#	40#	0.00
14	T	Allyl chloride	0.709	0.635	10.4	78	0.00
15	T	Acrylonitrile	0.107	0.101	5.6	80	0.00
16	T	Acetone	0.103	0.077	25.2#	63	0.00
17	T	Carbon Disulfide	1.571	1.447	7.9	82	0.00
18	T	Methyl Acetate	0.307	0.309	-0.7	81	0.00
19	T	Methyl tert-butyl Ether	1.249	1.186	5.0	81	0.00
20	T	Methylene Chloride	0.620	0.539	13.1	89	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.543	-0.4	87	0.01
22	T	Diisopropyl ether	1.541	1.476	4.2	82	0.00
23	T	Vinyl Acetate	0.852	0.761	10.7	76	0.00
24	P	1,1-Dichloroethane	0.942	0.933	1.0	86	0.00
25	T	2-Butanone	0.140	0.118	15.7	70	0.01
26	T	2,2-Dichloropropane	0.813	0.727	10.6	78	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.631	-0.8	87	0.00
28	T	Bromochloromethane	0.374	0.372	0.5	86	0.00
29	T	Tetrahydrofuran	0.087	0.078	10.3	75	0.00
30	C	Chloroform	0.971	0.985	-1.4#	88	0.00
31	T	Cyclohexane	0.888	0.746	16.0	77	0.00
32	T	1,1,1-Trichloroethane	0.862	0.852	1.2	86	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.470	1.5	86	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35	S	Dibromofluoromethane	0.299	0.299	0.0	86	0.00
36	T	1,1-Dichloropropene	0.445	0.425	4.5	83	0.00
37	T	Ethyl Acetate	0.187	0.166	11.2	75	0.00
38	T	Carbon Tetrachloride	0.483	0.470	2.7	85	0.00
39	T	Methylcyclohexane	0.586	0.534	8.9	80	0.00
40	TM	Benzene	1.370	1.375	-0.4	87	0.00
41	T	Methacrylonitrile	0.108	0.090	16.7	70	0.00
42	TM	1,2-Dichloroethane	0.356	0.348	2.2	85	0.00
43	T	Isopropyl Acetate	0.378	0.337	10.8	77	0.00
44	TM	Trichloroethene	0.354	0.367	-3.7	91	0.00
45	C	1,2-Dichloropropane	0.315	0.314	0.3#	86	0.00
46	T	Dibromomethane	0.181	0.181	0.0	86	0.00
47	T	Bromodichloromethane	0.466	0.472	-1.3	87	0.00
48	T	Methyl methacrylate	0.181	0.163	9.9	74	0.00

Sample Results: **VY023160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	81	0.00
50	S	Toluene-d8	1.169	1.189	-1.7	88	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.181	7.2	77	0.00
52	CM	Toluene	0.870	0.891	-2.4#	88	0.00
53	T	t-1,3-Dichloropropene	0.422	0.407	3.6	82	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.486	2.6	83	0.00
55	T	1,1,2-Trichloroethane	0.242	0.243	-0.4	86	0.00
56	T	Ethyl methacrylate	0.310	0.300	3.2	80	0.00
57	T	1,3-Dichloropropane	0.411	0.402	2.2	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.152	-4.1	83	0.00
59	T	2-Hexanone	0.133	0.120	9.8	74	0.00
60	T	Dibromochloromethane	0.320	0.328	-2.5	88	0.00
61	T	1,2-Dibromoethane	0.228	0.226	0.9	85	0.00
62	S	4-Bromofluorobenzene	0.376	0.378	-0.5	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.446	0.501	-12.3	99	0.00
65	PM	Chlorobenzene	1.079	1.088	-0.8	89	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.376	-2.7	90	0.00
67	C	Ethyl Benzene	1.856	1.889	-1.8#	87	0.00
68	T	m/p-Xylenes	0.725	0.747	-3.0	90	0.00
69	T	o-Xylene	0.679	0.703	-3.5	88	0.00
70	T	Styrene	1.110	1.180	-6.3	90	0.00
71	P	Bromoform	0.214	0.210	1.9	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73	T	Isopropylbenzene	3.529	3.482	1.3	88	0.00
74	T	N-amyl acetate	0.748	0.653	12.7	75	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.519	13.9	78	0.00
76	T	1,2,3-Trichloropropane	0.483	0.467	3.3	77	0.00
77	T	Bromobenzene	0.842	0.820	2.6	87	0.00
78	T	n-propylbenzene	4.201	4.160	1.0	87	0.00
79	T	2-Chlorotoluene	2.407	2.351	2.3	87	0.00
80	T	1,3,5-Trimethylbenzene	2.852	2.862	-0.4	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.172	13.6	77	0.00
82	T	4-Chlorotoluene	2.497	2.447	2.0	88	0.00
83	T	tert-Butylbenzene	2.576	2.572	0.2	88	0.00
84	T	1,2,4-Trimethylbenzene	2.839	2.868	-1.0	89	0.00
85	T	sec-Butylbenzene	3.784	3.745	1.0	88	0.00
86	T	p-Isopropyltoluene	3.141	3.194	-1.7	89	0.00
87	T	1,3-Dichlorobenzene	1.660	1.648	0.7	90	0.00
88	T	1,4-Dichlorobenzene	1.647	1.601	2.8	88	0.00
89	T	n-Butylbenzene	2.885	2.870	0.5	87	0.00
90	T	Hexachloroethane	0.643	0.643	0.0	90	0.00
91	T	1,2-Dichlorobenzene	1.456	1.432	1.6	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.084	10.6	78	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.784	8.9	82	0.00
94	T	Hexachlorobutadiene	0.506	0.460	9.1	83	0.00
95	T	Naphthalene	1.468	1.356	7.6	80	0.00

Sample Results: **VY023160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.672	9.4	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	50.000	39.160	21.7	77	0.00
3	P	Chloromethane	50.000	46.137	7.7	85	0.00
4	C	Vinyl Chloride	50.000	47.848	4.3#	86	0.00
5	T	Bromomethane	50.000	50.342	-0.7	96	0.00
6	T	Chloroethane	50.000	50.860	-1.7	90	0.00
7	T	Trichlorofluoromethane	50.000	44.950	10.1	80	0.00
8	T	Diethyl Ether	50.000	46.597	6.8	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.085	9.8	81	0.00
10	T	Methyl Iodide	50.000	54.928	-9.9	89	0.00
11	T	Tert butyl alcohol	250.000	211.323	15.5	73	0.00
12	CM	1,1-Dichloroethene	50.000	47.120	5.8#	83	0.00
13	T	Acrolein	250.000	110.581	55.8#	40	0.00
14	T	Allyl chloride	50.000	44.800	10.4	78	0.00
15	T	Acrylonitrile	250.000	235.673	5.7	80	0.00
16	T	Acetone	250.000	187.073	25.2#	63	0.00
17	T	Carbon Disulfide	50.000	46.066	7.9	82	0.00
18	T	Methyl Acetate	50.000	50.290	-0.6	81	0.00
19	T	Methyl tert-butyl Ether	50.000	47.480	5.0	81	0.00
20	T	Methylene Chloride	50.000	50.247	-0.5	89	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.119	-0.2	87	0.01
22	T	Diisopropyl ether	50.000	47.919	4.2	82	0.00
23	T	Vinyl Acetate	250.000	223.289	10.7	76	0.00
24	P	1,1-Dichloroethane	50.000	49.522	1.0	86	0.00
25	T	2-Butanone	250.000	210.456	15.8	70	0.01
26	T	2,2-Dichloropropane	50.000	44.729	10.5	78	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.390	-0.8	87	0.00
28	T	Bromochloromethane	50.000	49.712	0.6	86	0.00
29	T	Tetrahydrofuran	250.000	223.965	10.4	75	0.00
30	C	Chloroform	50.000	50.699	-1.4#	88	0.00
31	T	Cyclohexane	50.000	42.047	15.9	77	0.00
32	T	1,1,1-Trichloroethane	50.000	49.443	1.1	86	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.322	1.4	86	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35	S	Dibromofluoromethane	50.000	49.903	0.2	86	0.00
36	T	1,1-Dichloropropene	50.000	47.746	4.5	83	0.00
37	T	Ethyl Acetate	50.000	44.444	11.1	75	0.00
38	T	Carbon Tetrachloride	50.000	48.612	2.8	85	0.00
39	T	Methylcyclohexane	50.000	45.580	8.8	80	0.00
40	TM	Benzene	50.000	50.170	-0.3	87	0.00
41	T	Methacrylonitrile	50.000	41.877	16.2	70	0.00
42	TM	1,2-Dichloroethane	50.000	48.835	2.3	85	0.00
43	T	Isopropyl Acetate	50.000	44.694	10.6	77	0.00
44	TM	Trichloroethene	50.000	51.782	-3.6	91	0.00
45	C	1,2-Dichloropropane	50.000	49.829	0.3#	86	0.00
46	T	Dibromomethane	50.000	49.971	0.1	86	0.00
47	T	Bromodichloromethane	50.000	50.703	-1.4	87	0.00
48	T	Methyl methacrylate	50.000	45.021	10.0	74	0.00

Sample Results: **VY023160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	946.444	5.4	81	0.00
50	S	Toluene-d8	50.000	50.853	-1.7	88	0.00
51	T	4-Methyl-2-Pentanone	250.000	231.971	7.2	77	0.00
52	CM	Toluene	50.000	51.179	-2.4#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	48.297	3.4	82	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.751	2.5	83	0.00
55	T	1,1,2-Trichloroethane	50.000	50.180	-0.4	86	0.00
56	T	Ethyl methacrylate	50.000	48.375	3.3	80	0.00
57	T	1,3-Dichloropropane	50.000	48.952	2.1	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.330	-3.7	83	0.00
59	T	2-Hexanone	250.000	225.681	9.7	74	0.00
60	T	Dibromochloromethane	50.000	51.365	-2.7	88	0.00
61	T	1,2-Dibromoethane	50.000	49.588	0.8	85	0.00
62	S	4-Bromofluorobenzene	50.000	50.308	-0.6	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	56.055	-12.1	99	0.00
65	PM	Chlorobenzene	50.000	50.434	-0.9	89	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.411	-2.8	90	0.00
67	C	Ethyl Benzene	50.000	50.888	-1.8#	87	0.00
68	T	m/p-Xylenes	100.000	103.051	-3.1	90	0.00
69	T	o-Xylene	50.000	51.799	-3.6	88	0.00
70	T	Styrene	50.000	53.132	-6.3	90	0.00
71	P	Bromoform	50.000	48.980	2.0	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73	T	Isopropylbenzene	50.000	49.330	1.3	88	0.00
74	T	N-amyl acetate	50.000	43.613	12.8	75	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.025	14.0	78	0.00
76	T	1,2,3-Trichloropropane	50.000	48.345	3.3	77	0.00
77	T	Bromobenzene	50.000	48.690	2.6	87	0.00
78	T	n-propylbenzene	50.000	49.502	1.0	87	0.00
79	T	2-Chlorotoluene	50.000	48.829	2.3	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.180	-0.4	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.134	13.7	77	0.00
82	T	4-Chlorotoluene	50.000	48.995	2.0	88	0.00
83	T	tert-Butylbenzene	50.000	49.921	0.2	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.510	-1.0	89	0.00
85	T	sec-Butylbenzene	50.000	49.485	1.0	88	0.00
86	T	p-Isopropyltoluene	50.000	50.842	-1.7	89	0.00
87	T	1,3-Dichlorobenzene	50.000	49.644	0.7	90	0.00
88	T	1,4-Dichlorobenzene	50.000	48.611	2.8	88	0.00
89	T	n-Butylbenzene	50.000	49.746	0.5	87	0.00
90	T	Hexachloroethane	50.000	50.008	-0.0	90	0.00
91	T	1,2-Dichlorobenzene	50.000	49.177	1.6	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.839	10.3	78	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.553	8.9	82	0.00
94	T	Hexachlorobutadiene	50.000	45.434	9.1	83	0.00
95	T	Naphthalene	50.000	46.168	7.7	80	0.00

Sample Results: **VY023160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	45.311	9.4	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

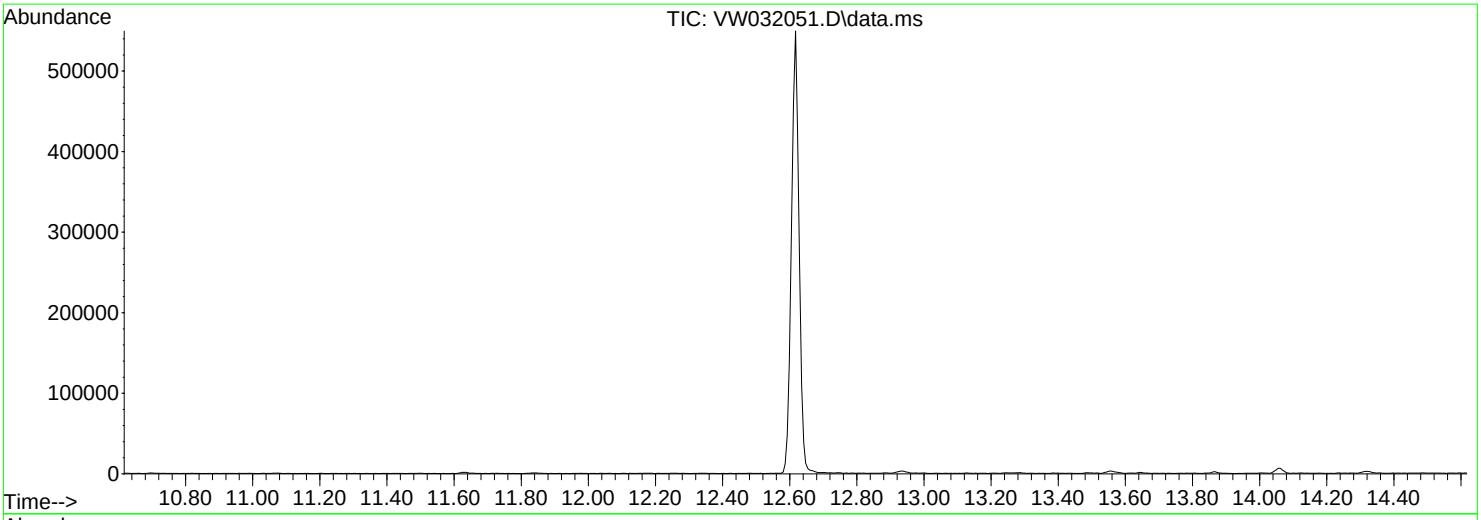
Sample Results: **VW032051.D**

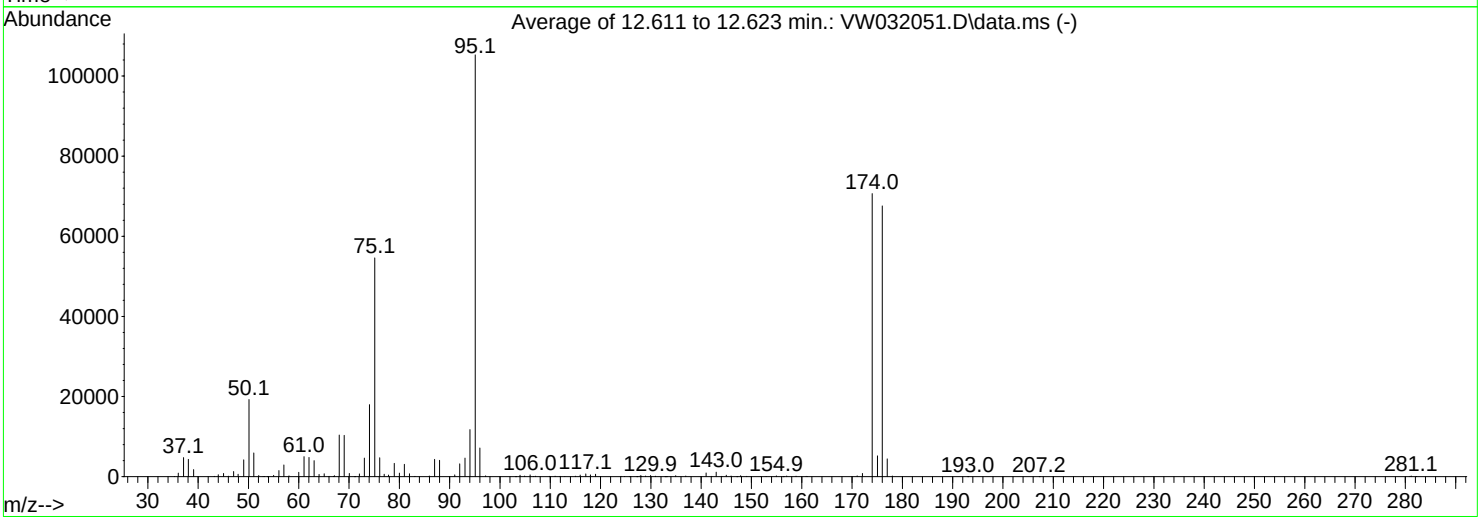
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032051.D
Acq On : 11 Aug 2025 07:53
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260
Last Update : Tue Aug 12 04:04:48 2025





AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	19253	PASS
75	95	30	60	51.9	54621	PASS
95	95	100	100	100.0	105291	PASS
96	95	5	9	6.8	7140	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	70667	PASS
175	174	5	9	7.3	5189	PASS
176	174	95	101	95.6	67573	PASS
177	176	5	9	6.5	4421	PASS

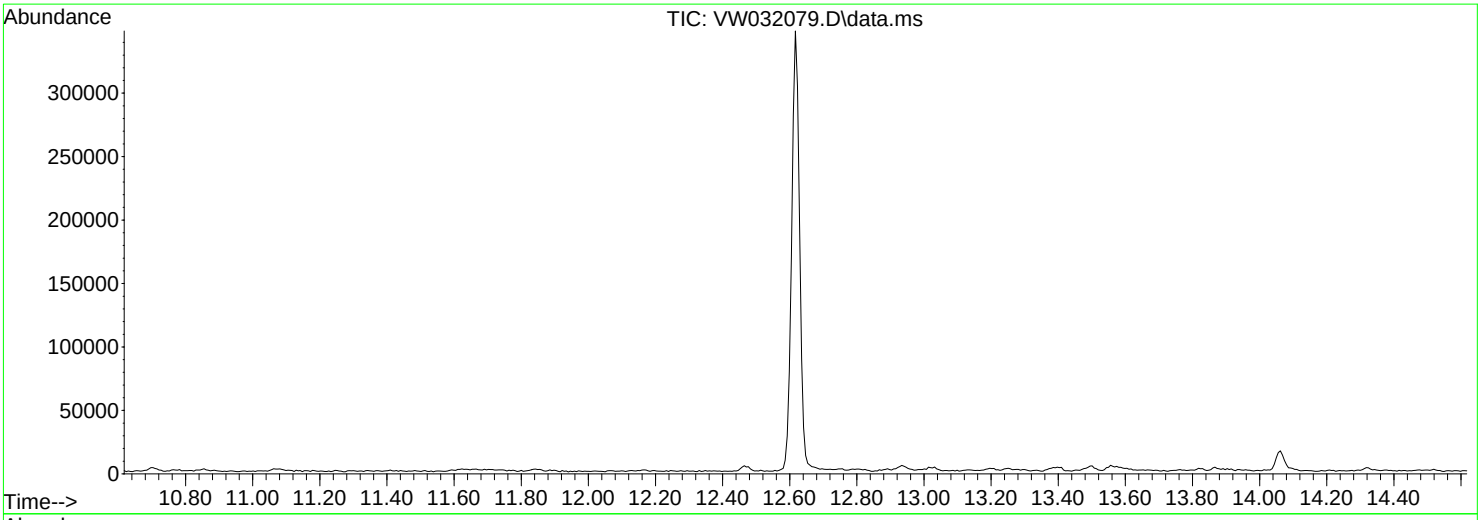
Sample Results: **VW032079.D**

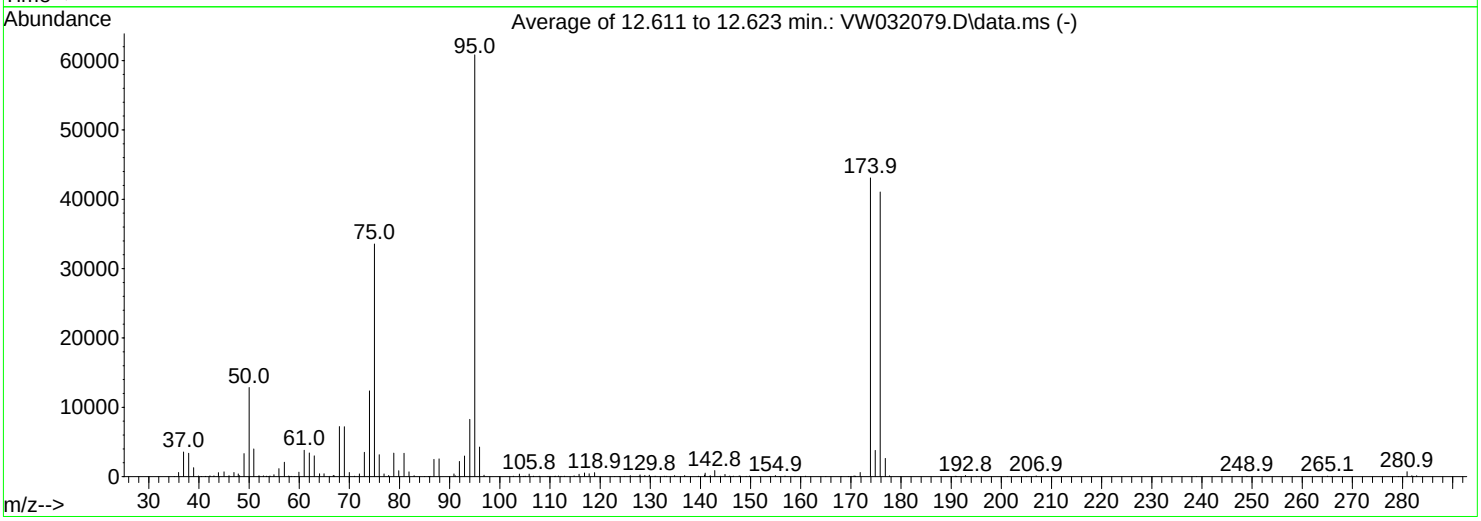
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032079.D
Acq On : 14 Aug 2025 09:05
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260
Last Update : Tue Aug 12 04:04:48 2025





AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1749

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	12850	PASS
75	95	30	60	55.2	33549	PASS
95	95	100	100	100.0	60829	PASS
96	95	5	9	7.0	4268	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.8	43085	PASS
175	174	5	9	8.8	3797	PASS
176	174	95	101	95.3	41045	PASS
177	176	5	9	6.4	2626	PASS

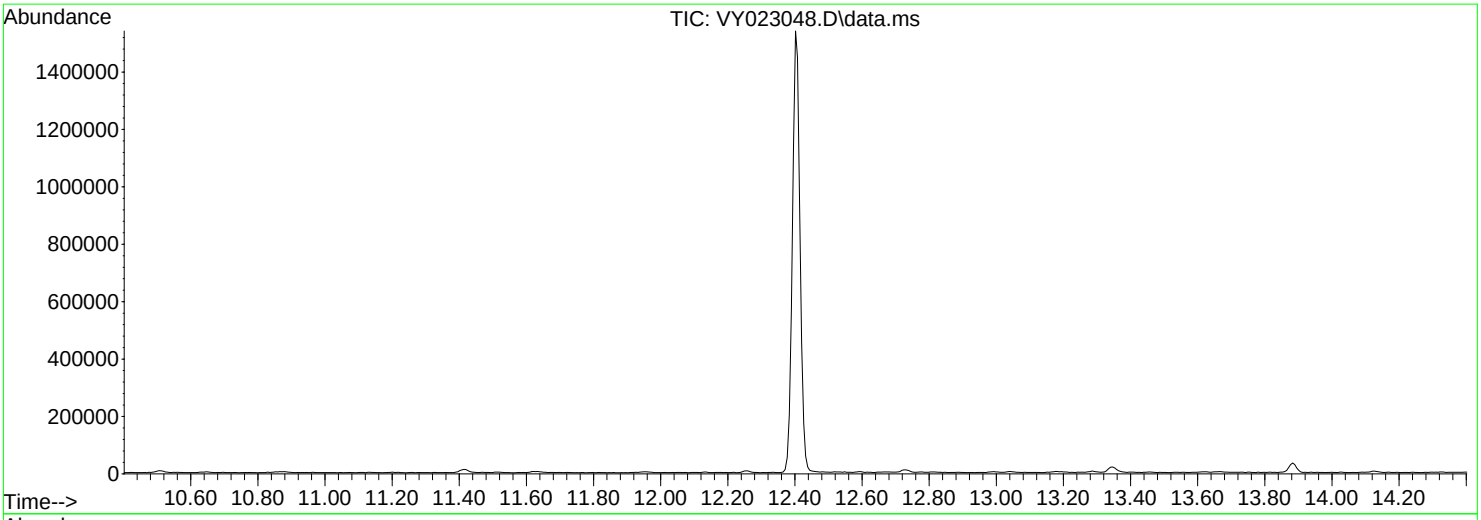
Sample Results: **VY023048.D**

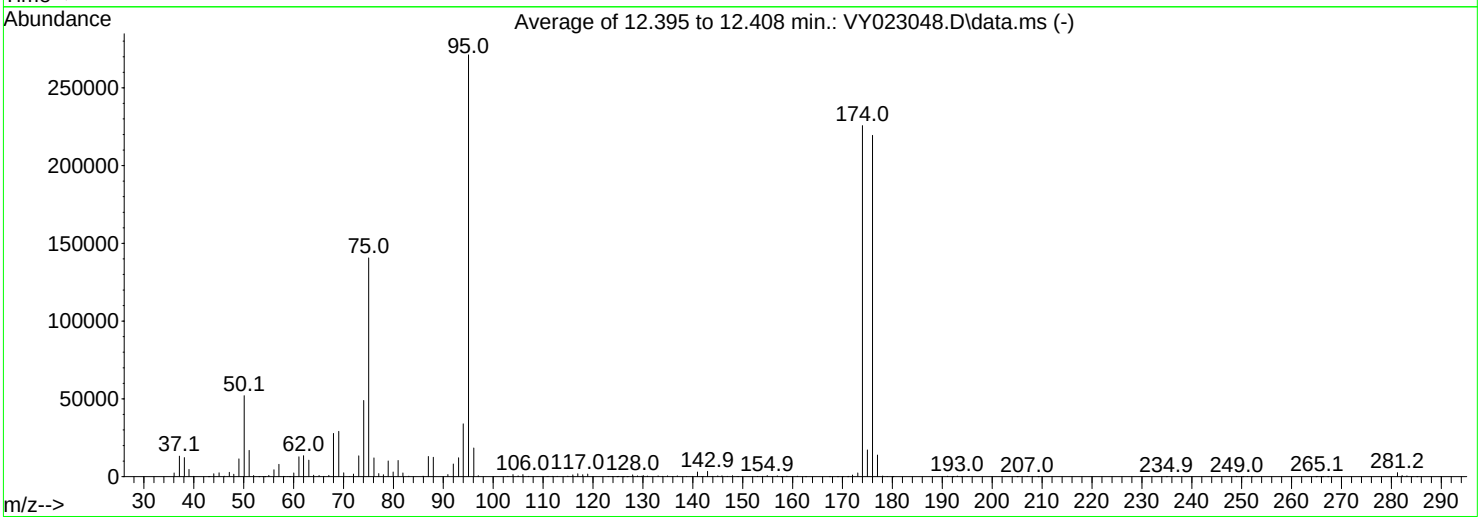
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023048.D
Acq On : 12 Aug 2025 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025





AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	52107	PASS
75	95	30	60	51.9	140677	PASS
95	95	100	100	100.0	271211	PASS
96	95	5	9	6.8	18415	PASS
173	174	0.00	2	1.1	2383	PASS
174	95	50	100	83.2	225707	PASS
175	174	5	9	7.6	17158	PASS
176	174	95	101	97.2	219435	PASS
177	176	5	9	6.4	13937	PASS

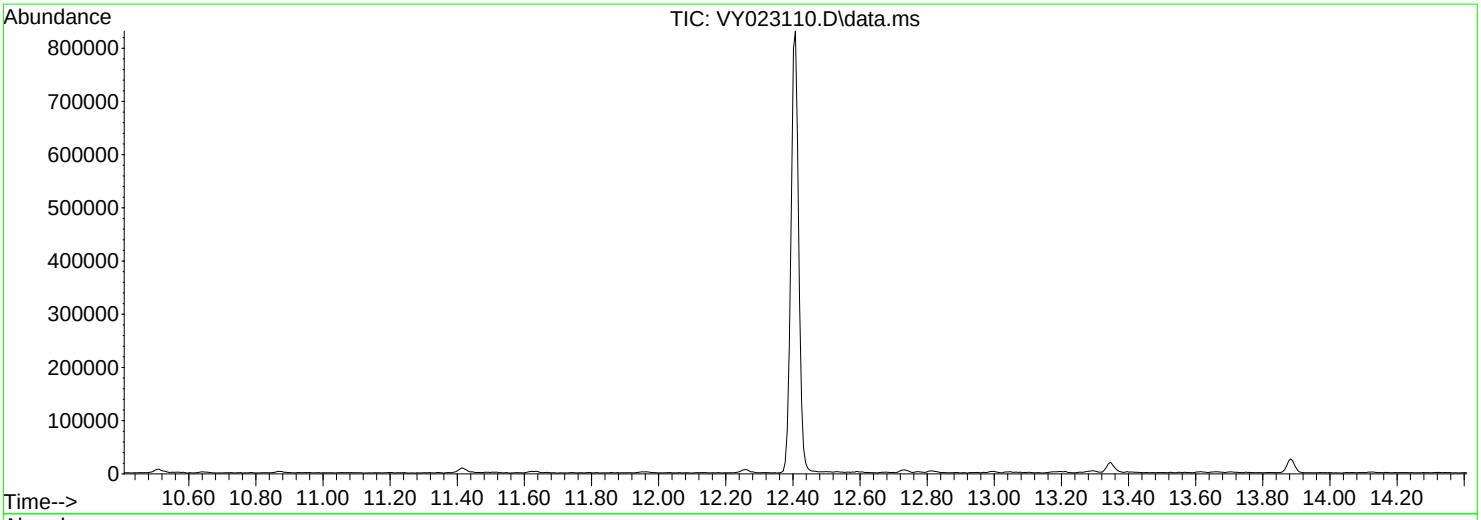
Sample Results: **VY023110.D**

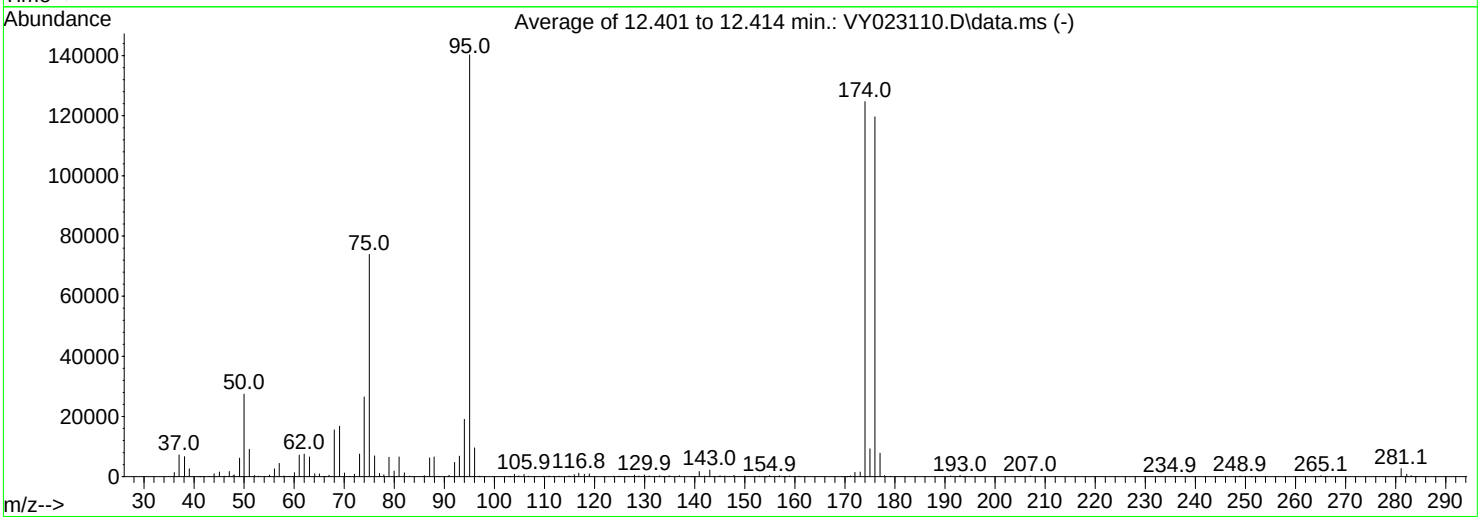
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023110.D
Acq On : 15 Aug 2025 08:07
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025





AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	27445	PASS
75	95	30	60	52.7	73891	PASS
95	95	100	100	100.0	140256	PASS
96	95	5	9	6.8	9601	PASS
173	174	0.00	2	1.2	1524	PASS
174	95	50	100	88.9	124701	PASS
175	174	5	9	7.4	9275	PASS
176	174	95	101	96.0	119685	PASS
177	176	5	9	6.5	7810	PASS

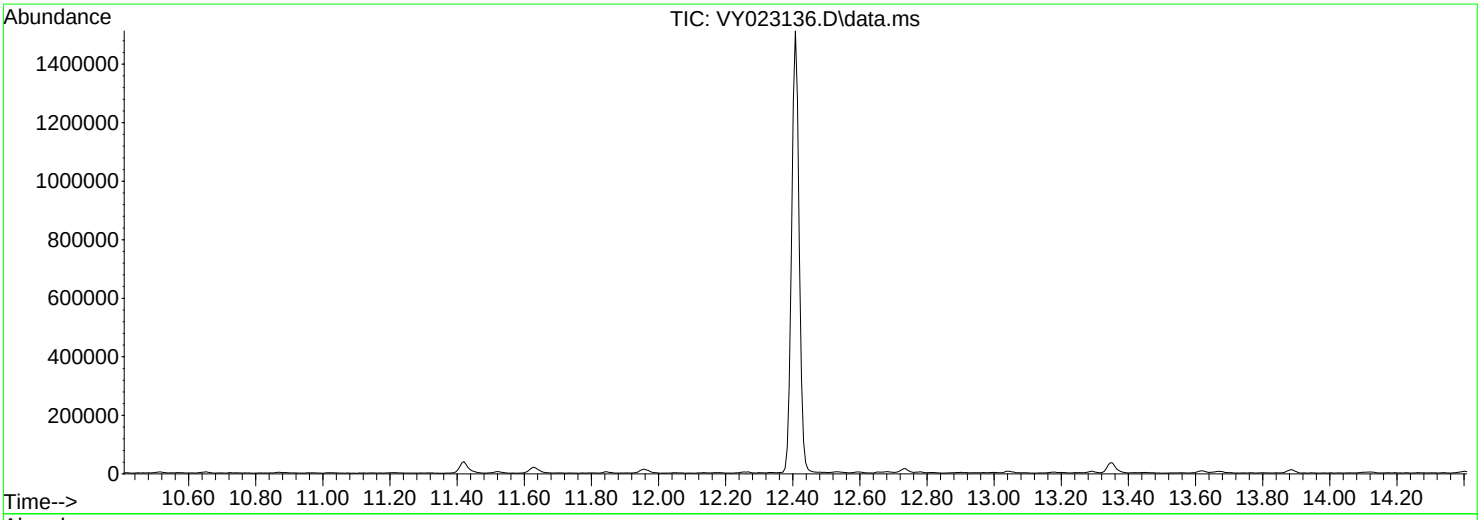
Sample Results: **VY023136.D**

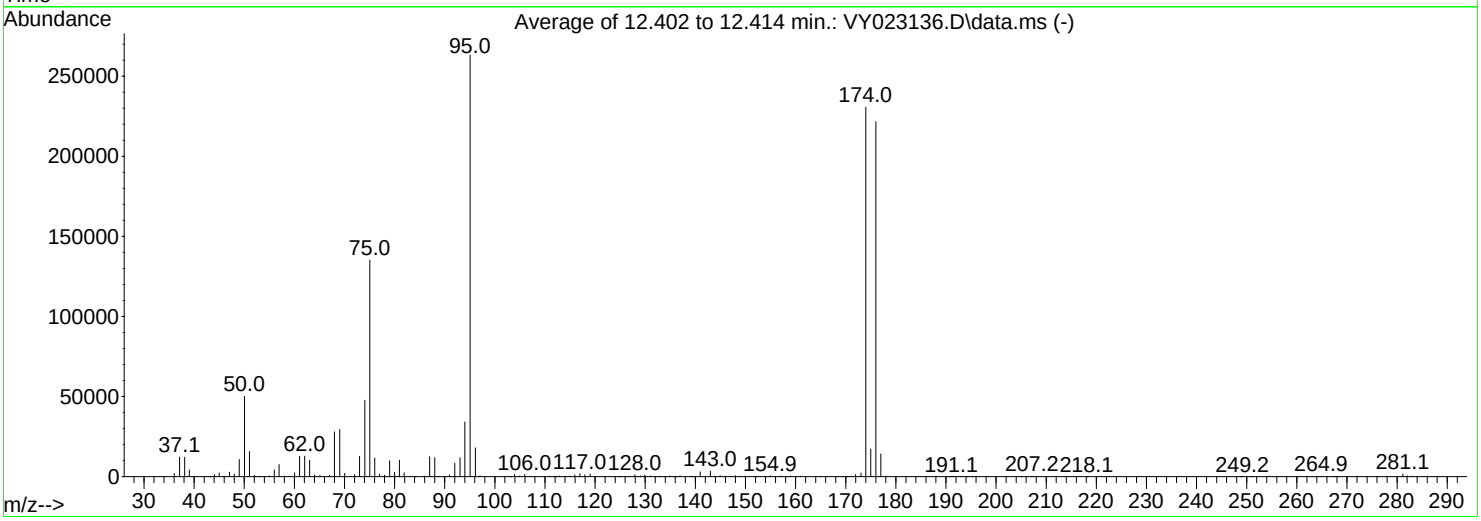
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023136.D
Acq On : 19 Aug 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025





AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1742

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	50171	PASS
75	95	30	60	51.4	135277	PASS
95	95	100	100	100.0	263317	PASS
96	95	5	9	6.8	17949	PASS
173	174	0.00	2	1.0	2231	PASS
174	95	50	100	87.6	230592	PASS
175	174	5	9	7.5	17273	PASS
176	174	95	101	96.1	221525	PASS
177	176	5	9	6.4	14202	PASS

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBL01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032081.D	1	08/14/25 10:00	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.00	U	1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	4.00	U	1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	2.50	U	0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	4.00	U	1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBL01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032081.D	1	08/14/25 10:00	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	2.50	U	0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.00	U	1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.00	U	3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.7		71 - 136		109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	49.3		85 - 116		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		79 - 119		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	151000	7.959				
540-36-3	1,4-Difluorobenzene	297000	8.849				
3114-55-4	Chlorobenzene-d5	296000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	134000	13.556				

Raw Data: **VW032081.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBL01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032081.D	1	08/14/25 10:00	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032081.D
Acq On : 14 Aug 2025 10:00
Operator : SY/MD
Sample : VW0814SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Quant Time: Aug 18 03:46:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	151415	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	296729	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	295553	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	134418	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	119802	54.707	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 109.420%			
35) Dibromofluoromethane	7.898	113	104879	54.710	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 109.420%			
50) Toluene-d8	10.325	98	349304	49.265	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 98.520%			
62) 4-Bromofluorobenzene	12.617	95	121836	46.629	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 93.260%			

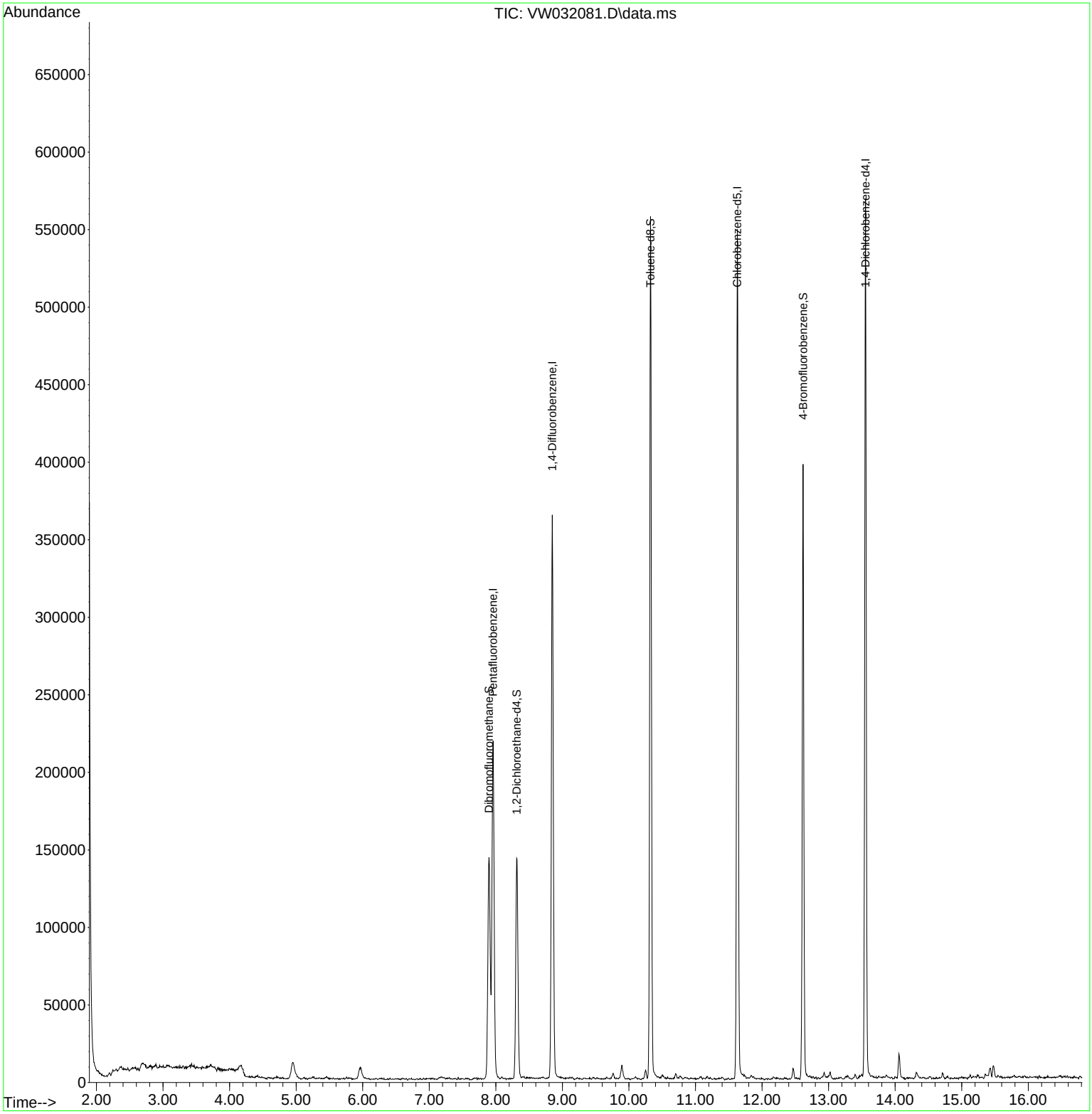
Target Compounds Qvalue

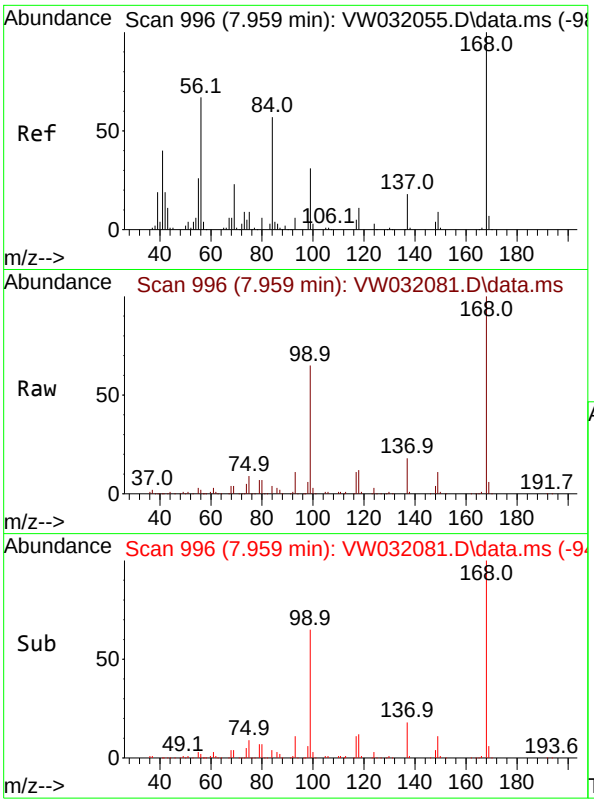
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032081.D
Acq On : 14 Aug 2025 10:00
Operator : SY/MD
Sample : VW0814SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Quant Time: Aug 18 03:46:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



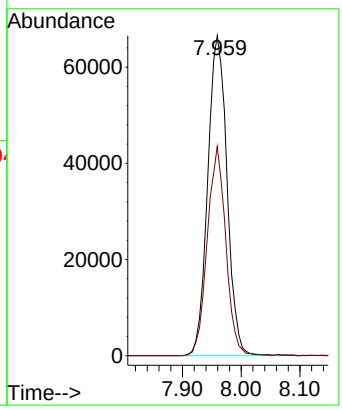


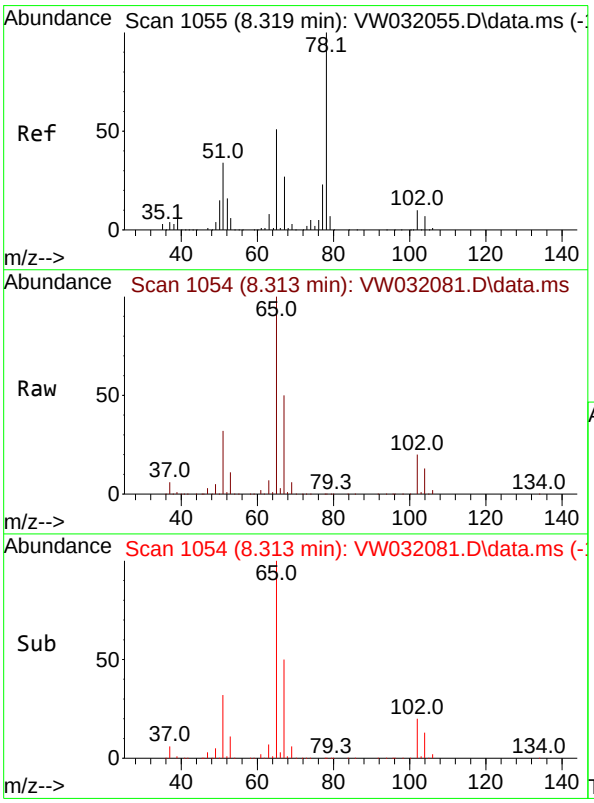
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Tgt Ion:168 Resp: 151415

Ion	Ratio	Lower	Upper
168	100		
99	65.4	56.0	84.0

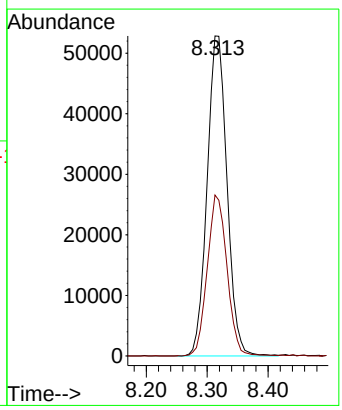


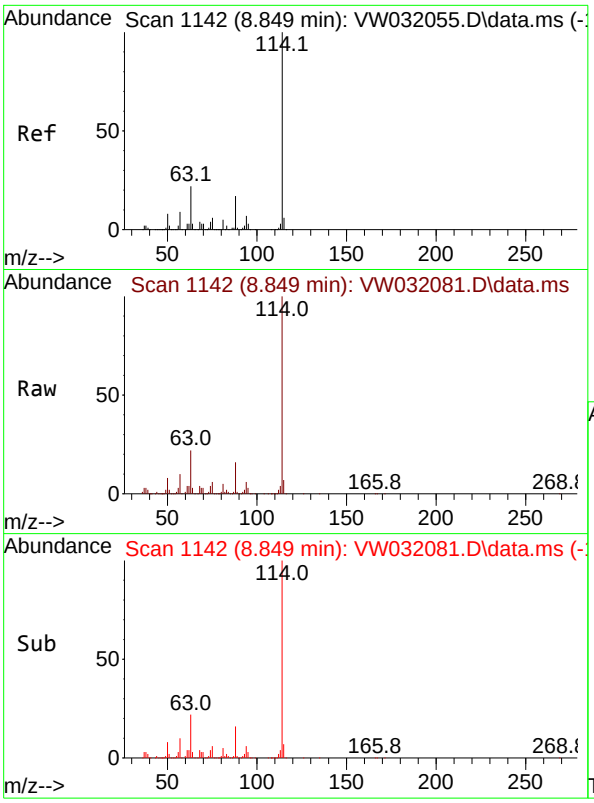


#33
1,2-Dichloroethane-d4
Concen: 54.707 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Tgt Ion: 65 Resp: 119802

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	102.4



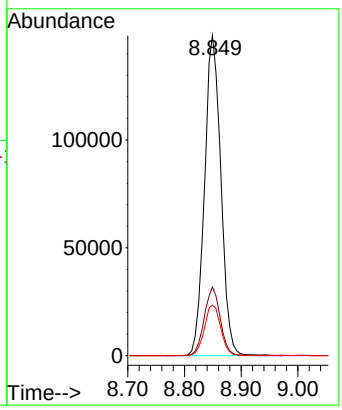


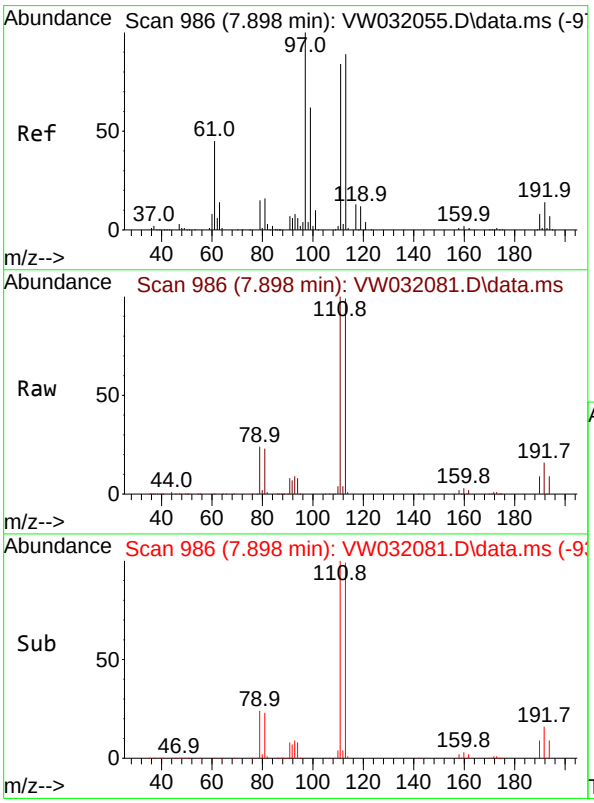
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Tgt Ion:114 Resp: 296729

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.0
88	15.8	0.0	33.8

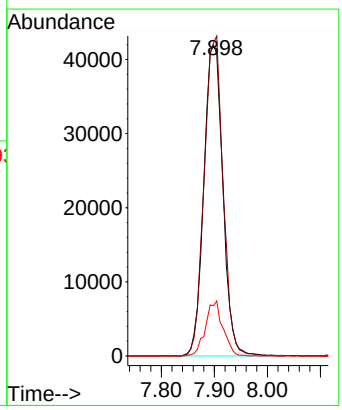


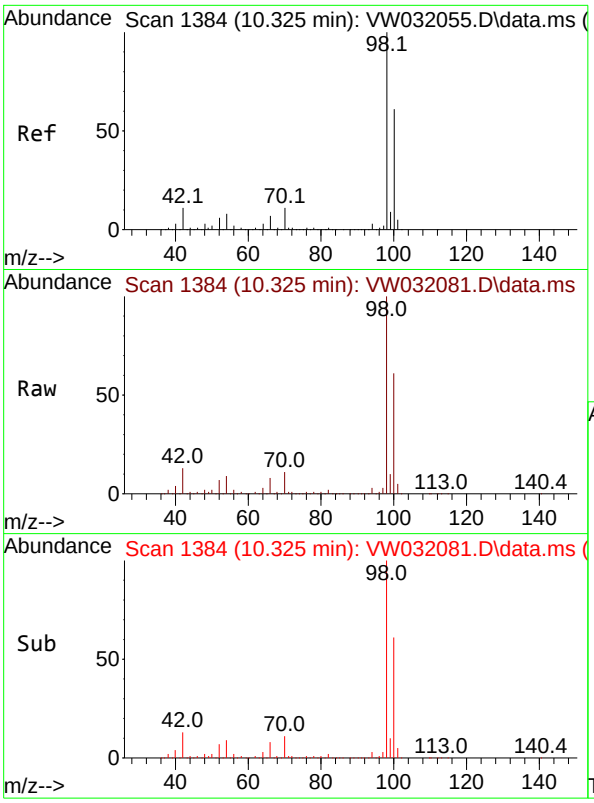


#35
Dibromofluoromethane
Concen: 54.710 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Tgt Ion:113 Resp: 104879

Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.1	120.1
192	16.2	13.1	19.7



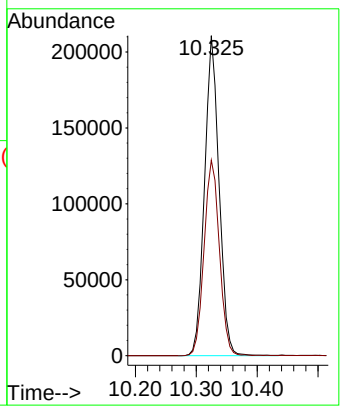


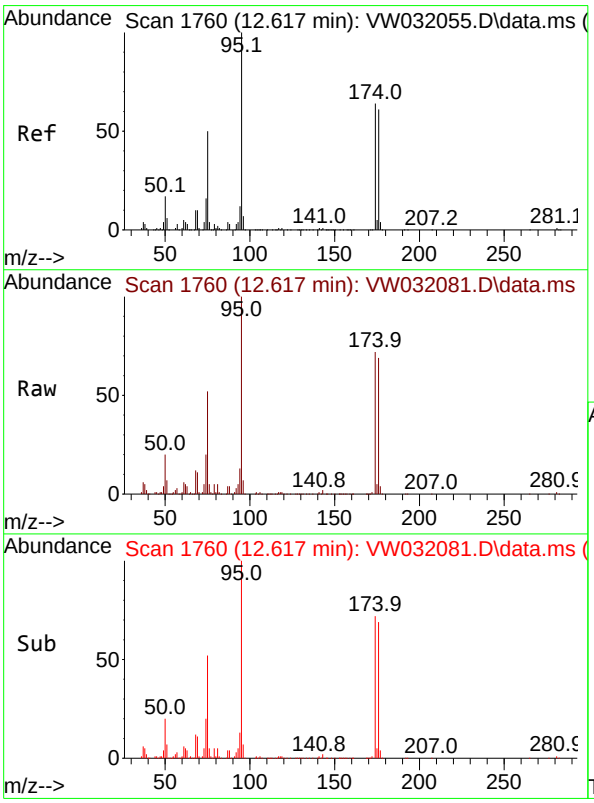
#50
Toluene-d8
Concen: 49.265 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Tgt Ion: 98 Resp: 349304

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7

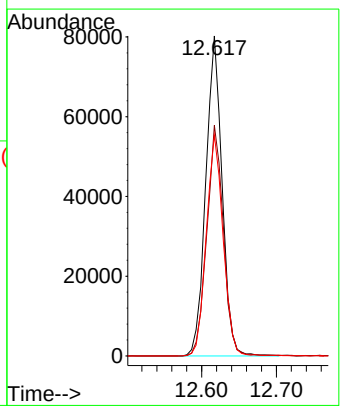


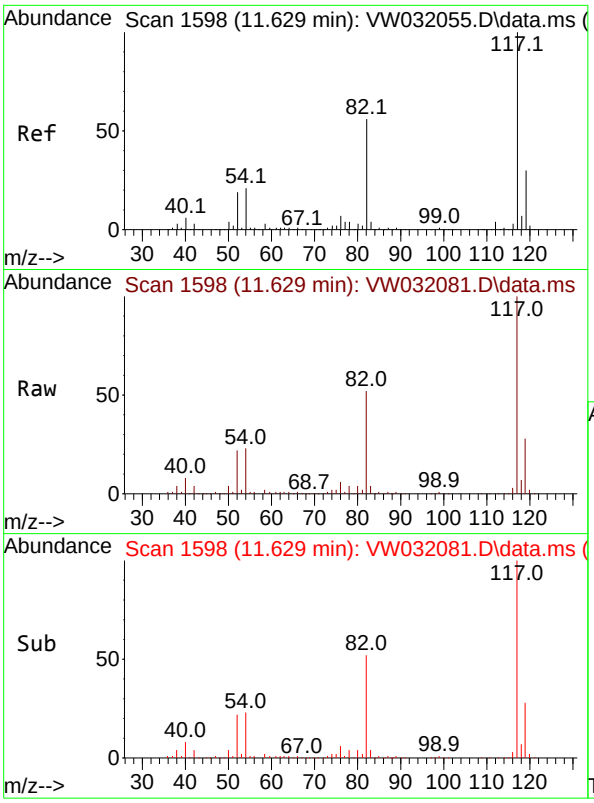


#62
4-Bromofluorobenzene
Concen: 46.629 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Tgt Ion: 95 Resp: 121836

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	129.0
176	71.4	0.0	124.6



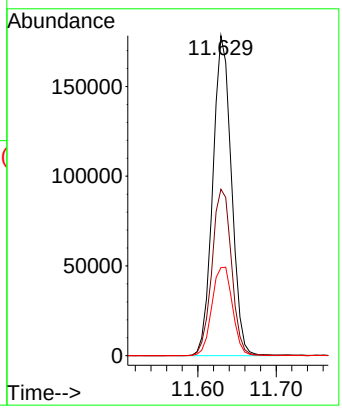


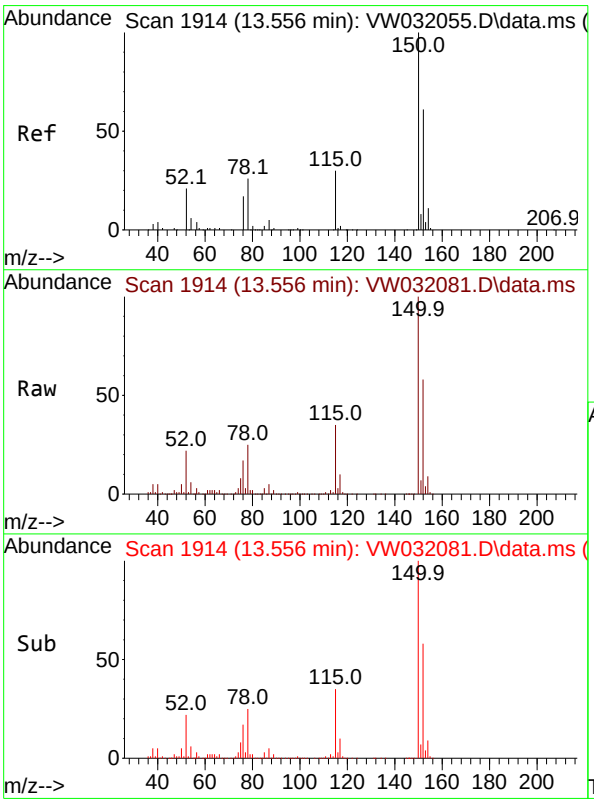
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Tgt Ion:117 Resp: 295553

Ion	Ratio	Lower	Upper
117	100		
82	52.0	45.0	67.4
119	27.5	24.2	36.4

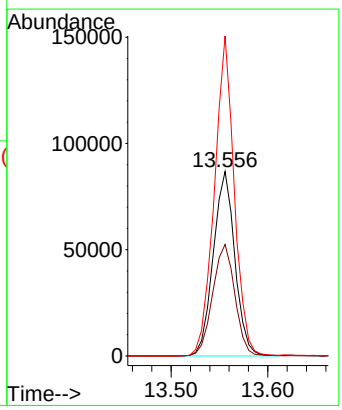




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032081.D
Acq: 14 Aug 2025 10:00

Tgt Ion:152 Resp: 134418

Ion	Ratio	Lower	Upper
152	100		
115	62.6	32.6	97.8
150	160.0	0.0	359.4



Sample Results: **VW032081.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032081.D
Acq On : 14 Aug 2025 10:00
Operator : SY/MD
Sample : VW0814SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032081.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	491	503	513	rBV4	10434	39918	4.15%	0.729%
2	5.966	661	669	680	rBV4	7274	22957	2.39%	0.420%
3	7.898	973	986	991	rBV2	142927	364490	37.93%	6.660%
4	7.959	991	996	1007	rVB	216893	479446	49.90%	8.761%
5	8.313	1044	1054	1065	rBV	142021	326873	34.02%	5.973%
6	8.849	1133	1142	1157	rBV	363089	728505	75.82%	13.312%
7	9.892	1305	1313	1322	rVB4	8965	20073	2.09%	0.367%
8	10.325	1376	1384	1401	rVV	555693	960830	100.00%	17.558%
9	11.629	1591	1598	1610	rBV	547548	942933	98.14%	17.231%
10	12.465	1729	1735	1740	rBV4	6988	12084	1.26%	0.221%
11	12.617	1752	1760	1771	rBV	396811	637004	66.30%	11.640%
12	13.556	1907	1914	1927	rVB	565988	887921	92.41%	16.225%
13	14.056	1992	1996	2002	rBV	15511	25920	2.70%	0.474%
14	15.427	2217	2221	2225	rVB5	5550	9722	1.01%	0.178%
15	15.476	2225	2229	2235	rVB	7305	13787	1.43%	0.252%

Sum of corrected areas: 5472463

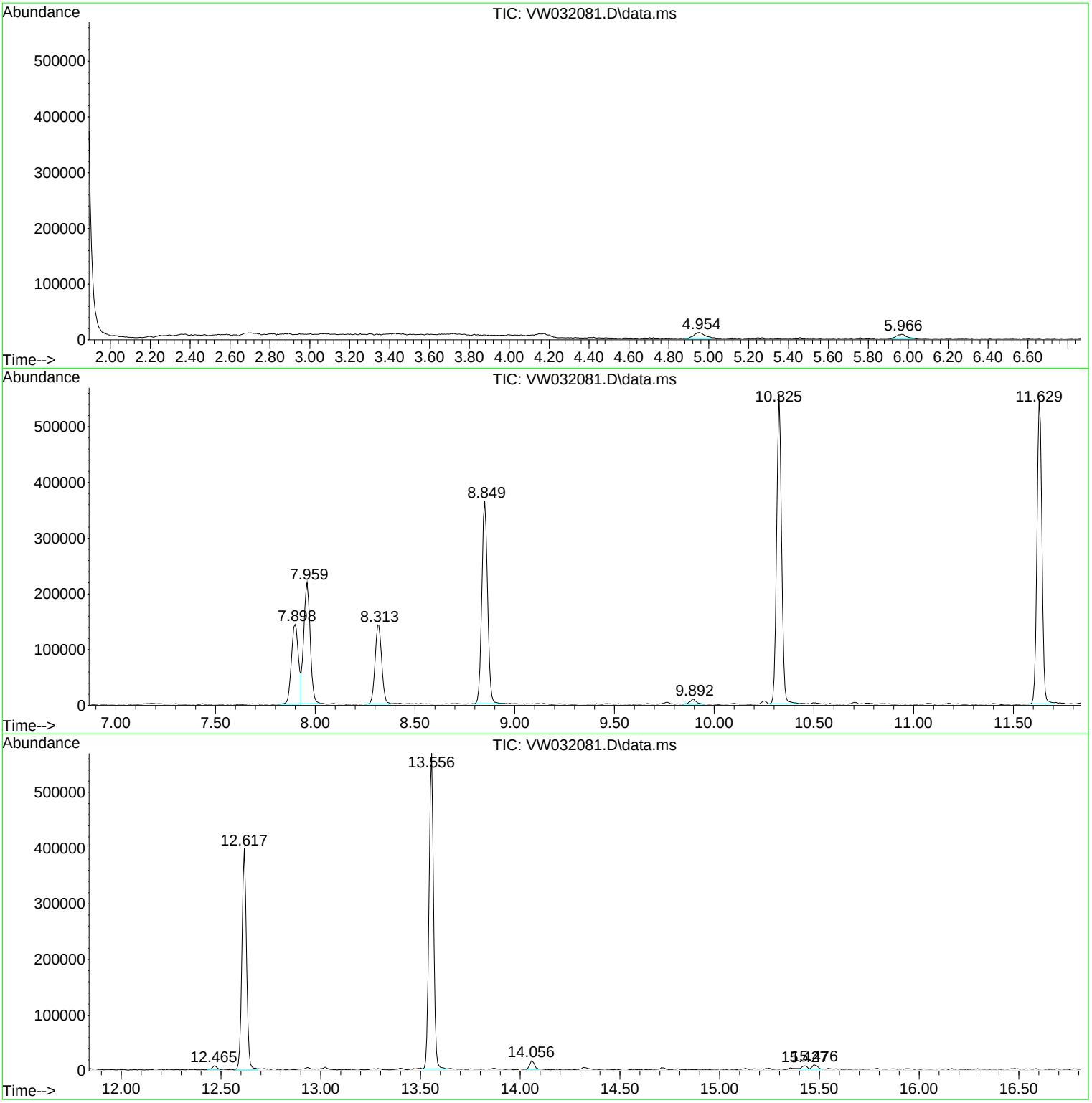
Sample Results: **VW032081.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032081.D
Acq On : 14 Aug 2025 10:00
Operator : SY/MD
Sample : VW0814SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032081.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032081.D
Acq On : 14 Aug 2025 10:00
Operator : SY/MD
Sample : VW0814SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032081.D
Acq On : 14 Aug 2025 10:00
Operator : SY/MD
Sample : VW0814SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0815SBL01	SDG No.:	Q2820
Lab Sample ID:	VY0815SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023112.D	1	08/15/25 09:08	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.00	U	1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	4.00	U	1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	2.50	U	0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	4.00	U	1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg

Raw Data: **VY023112.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0815SBL01	SDG No.:	Q2820
Lab Sample ID:	VY0815SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023112.D	1	08/15/25 09:08	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	2.50	U	0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.00	U	1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.00	U	3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.8		71 - 136		120%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.4		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		79 - 119		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	551000	7.707				
540-36-3	1,4-Difluorobenzene	1050000	8.616				
3114-55-4	Chlorobenzene-d5	953000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	371000	13.346				

Raw Data: **VY023112.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0815SBL01	SDG No.:	Q2820
Lab Sample ID:	VY0815SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023112.D	1	08/15/25 09:08	VY081525

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Time: Aug 18 02:23:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

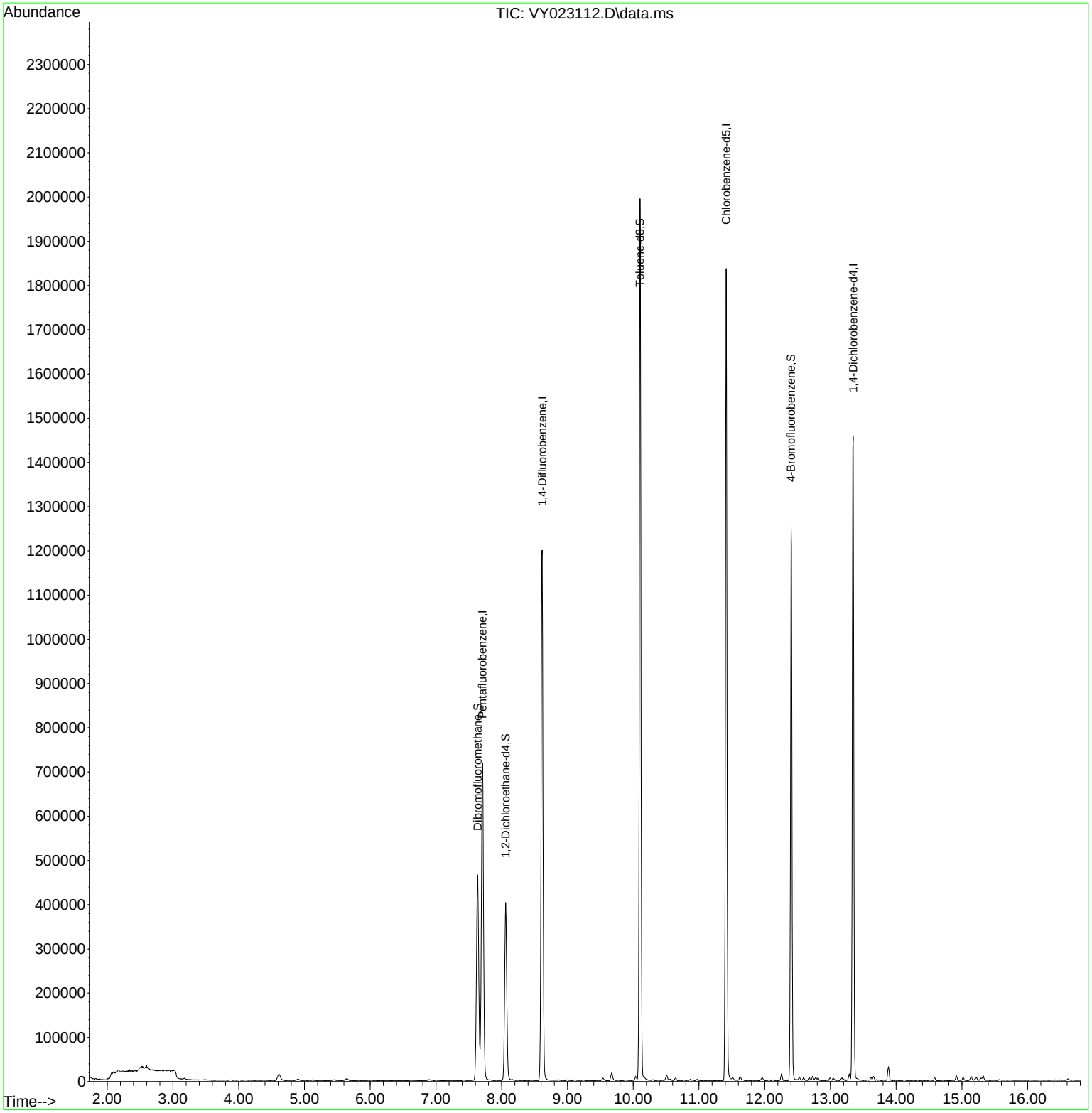
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	550500	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1049087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	953139	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	370974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	313986	59.845	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.700%			
35) Dibromofluoromethane	7.634	113	330708	52.682	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.360%			
50) Toluene-d8	10.103	98	1285132	52.405	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.800%			
62) 4-Bromofluorobenzene	12.401	95	374958	47.544	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.080%			
Target Compounds						Qvalue

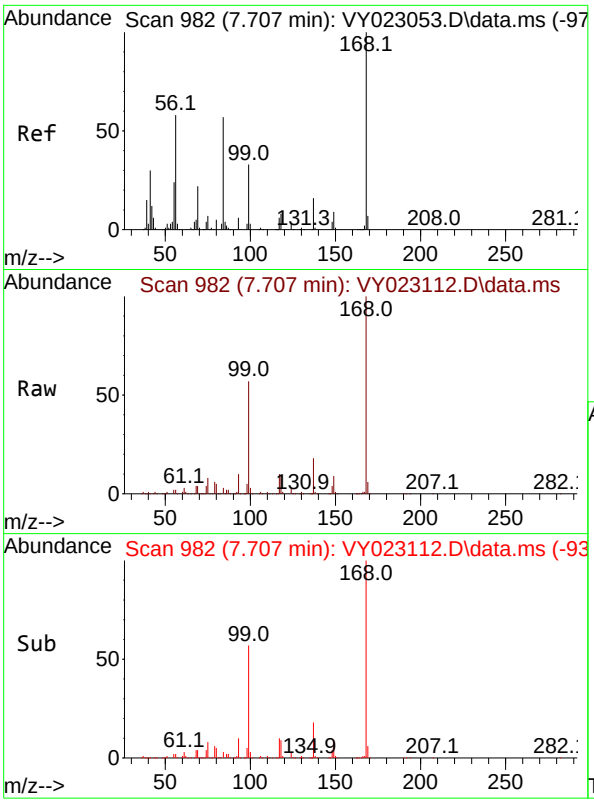
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Time: Aug 18 02:23:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



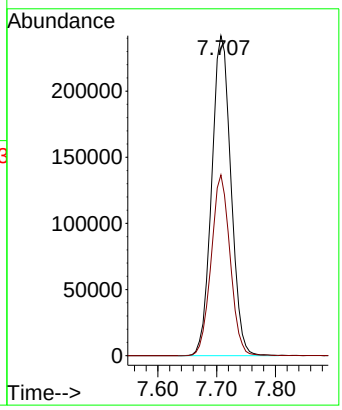


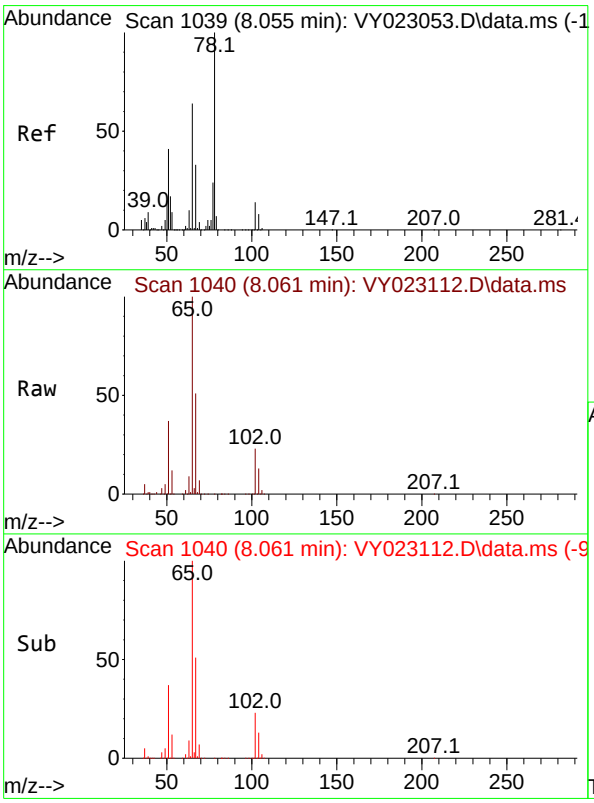
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion:168 Resp: 550500

Ion	Ratio	Lower	Upper
168	100		
99	56.5	42.8	64.2

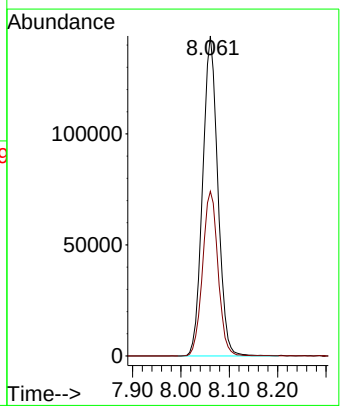


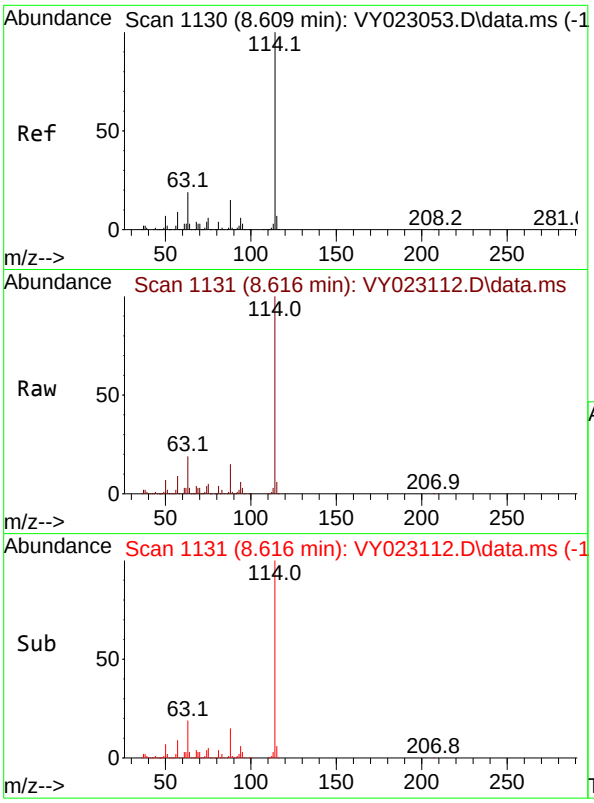


#33
1,2-Dichloroethane-d4
Concen: 59.845 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion: 65 Resp: 313986

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.8



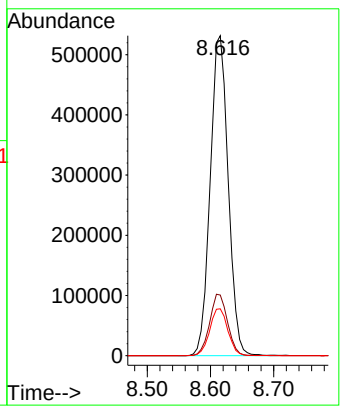


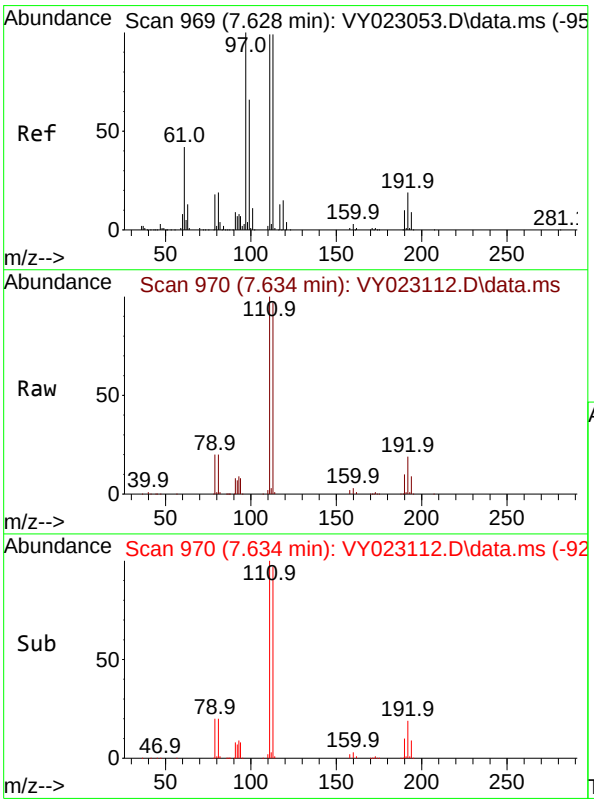
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion:114 Resp: 1049087

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.4
88	14.6	0.0	30.0

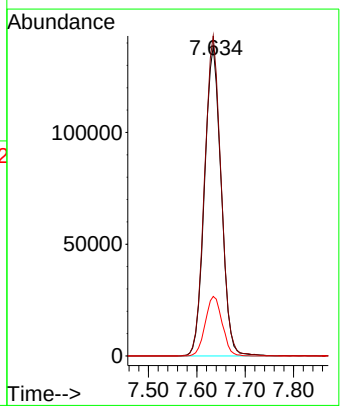


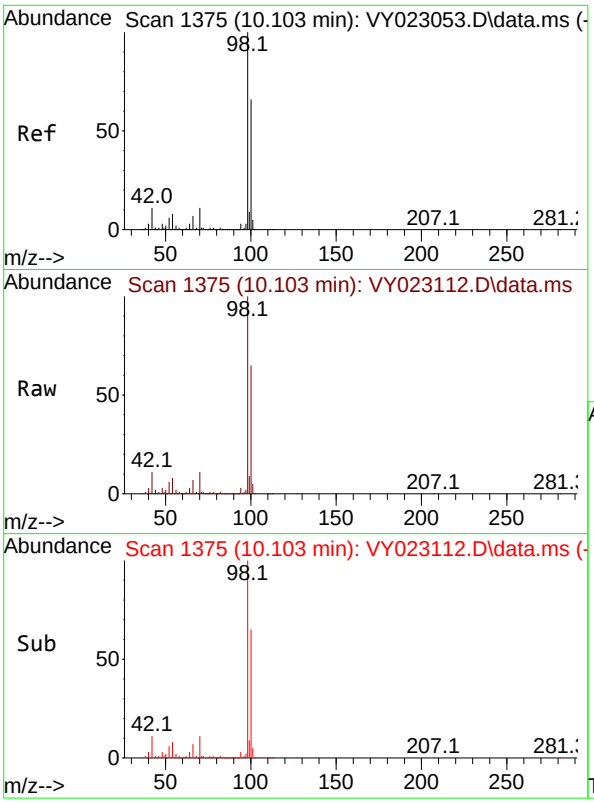


#35
Dibromofluoromethane
Concen: 52.682 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion:113 Resp: 330708

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.1	121.7
192	19.6	16.2	24.4



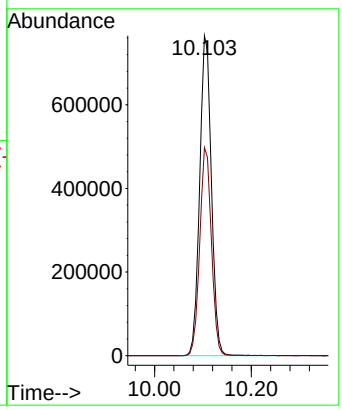


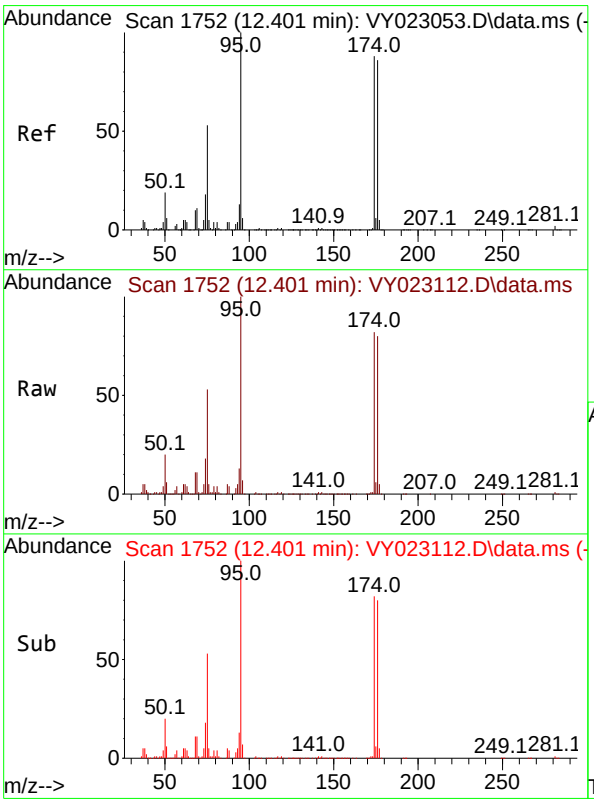
#50
Toluene-d8
Concen: 52.405 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion: 98 Resp: 1285132

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5

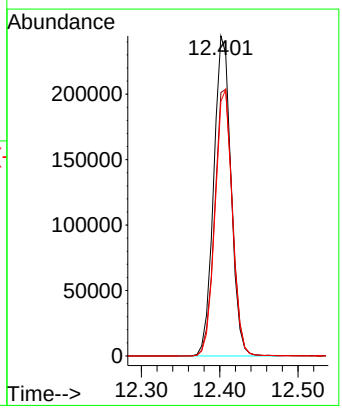


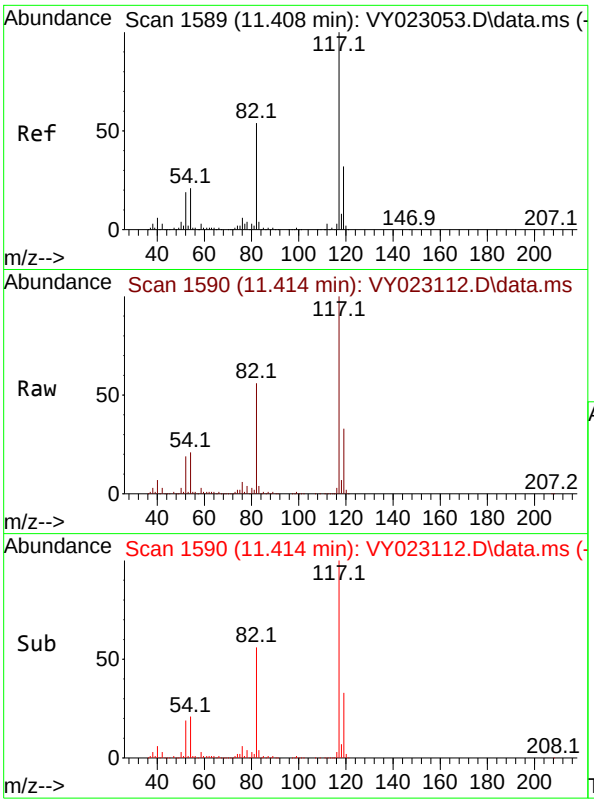


#62
4-Bromofluorobenzene
Concen: 47.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion: 95 Resp: 374958

Ion	Ratio	Lower	Upper
95	100		
174	85.9	0.0	171.6
176	83.0	0.0	167.6



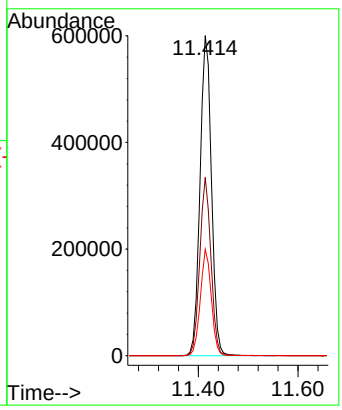


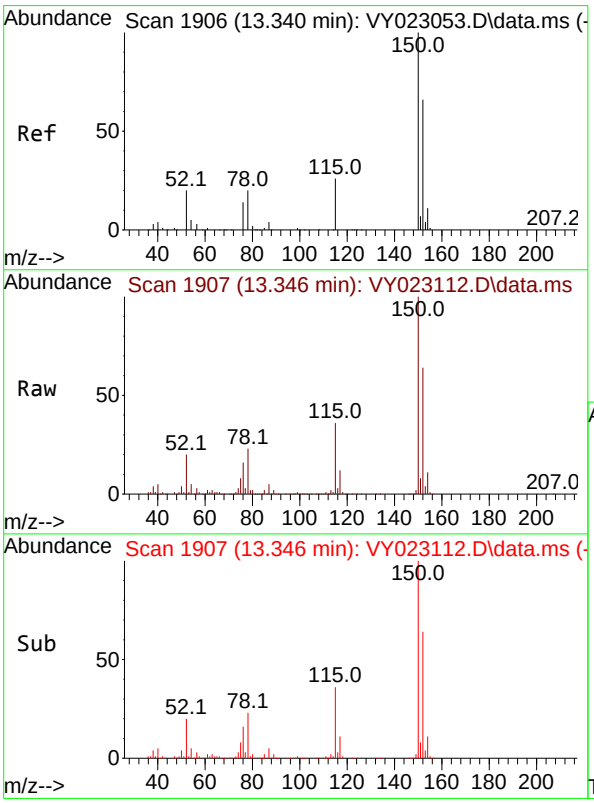
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion:117 Resp: 953139

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.4	65.0
119	33.2	25.6	38.4

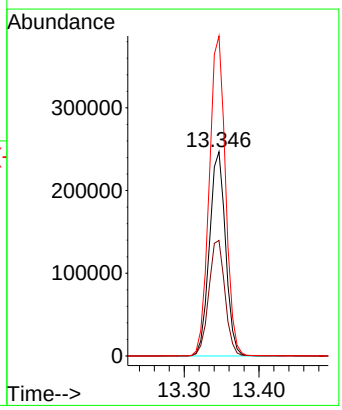




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion:152 Resp: 370974

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	157.6	0.0	348.0



Sample Results: **VY023112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023112.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% of max.	% of total
1	4.610	463	474	487	rBV	14989	50337	1.51%	0.303%
2	7.634	960	970	976	rBV	464685	1112476	33.27%	6.688%
3	7.707	976	982	993	rVB	715479	1610606	48.17%	9.682%
4	8.061	1028	1040	1053	rBV	403205	890118	26.62%	5.351%
5	8.616	1121	1131	1144	rBV	1199454	2395578	71.65%	14.401%
6	9.676	1298	1305	1311	rBV	17461	37205	1.11%	0.224%
7	10.103	1368	1375	1384	rBV	1991604	3343501	100.00%	20.100%
8	11.414	1582	1590	1602	rBV	1836381	2914659	87.17%	17.522%
9	12.401	1745	1752	1763	rBV	1253322	1976340	59.11%	11.881%
10	13.346	1900	1907	1916	rVB	1452677	2248707	67.26%	13.518%
11	13.883	1988	1995	2004	rVB	30761	55163	1.65%	0.332%

Sum of corrected areas: 16634690

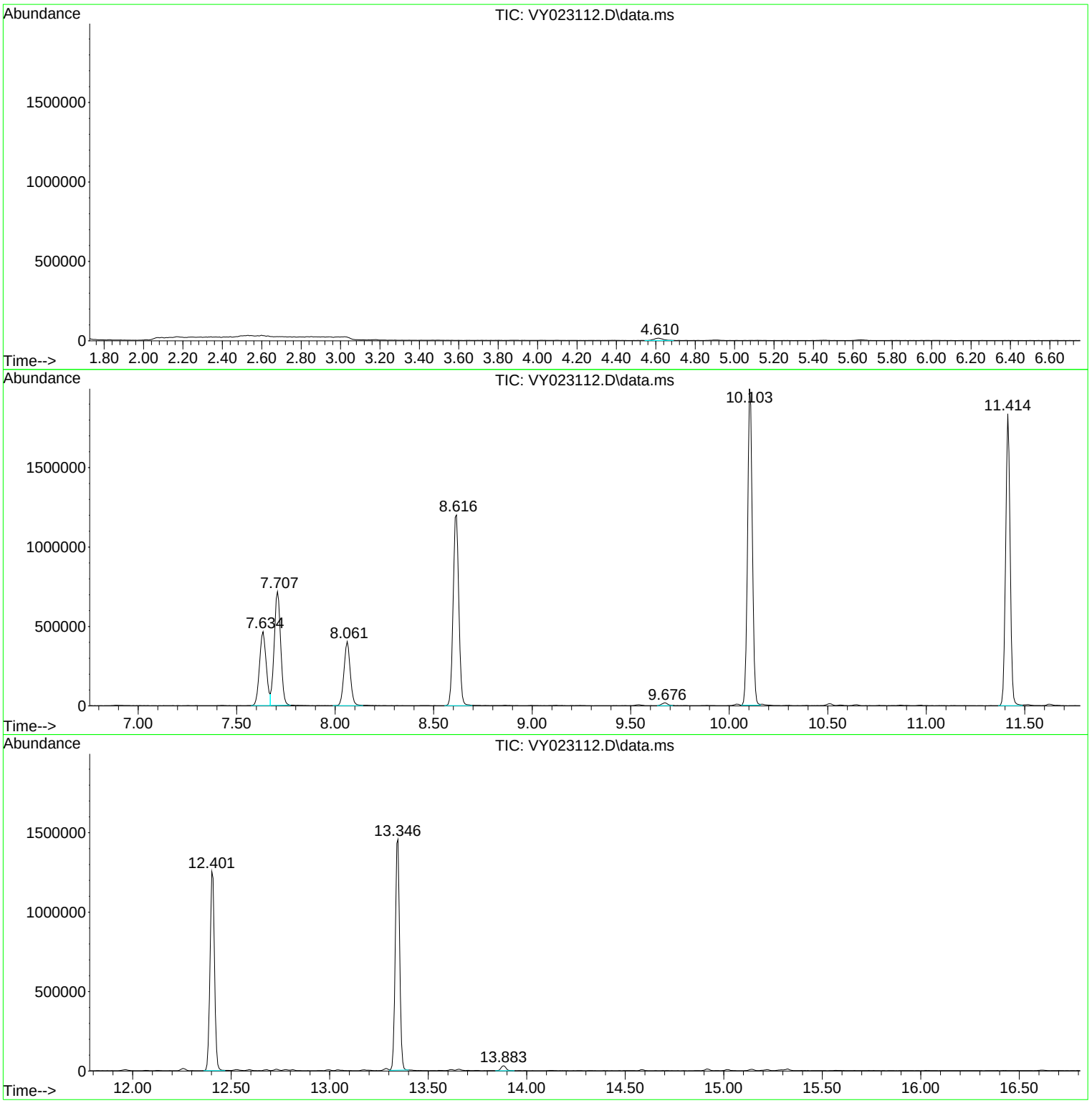
Sample Results: **VY023112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

Raw Data: **VY023138.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBL01	SDG No.:	Q2820
Lab Sample ID:	VY0819SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023138.D	1	08/19/25 09:49	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.00	U	1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	4.00	U	1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	2.50	U	0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	4.00	U	1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg

Raw Data: **VY023138.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBL01	SDG No.:	Q2820
Lab Sample ID:	VY0819SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023138.D	1	08/19/25 09:49	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	2.50	U	0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.00	U	1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.00	U	3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.4		71 - 136		107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	51.3		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		79 - 119		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	658000	7.713				
540-36-3	1,4-Difluorobenzene	1190000	8.616				
3114-55-4	Chlorobenzene-d5	1100000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	445000	13.346				

Raw Data: **VY023138.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBL01	SDG No.:	Q2820
Lab Sample ID:	VY0819SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023138.D	1	08/19/25 09:49	VY081925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Quant Time: Aug 20 01:24:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

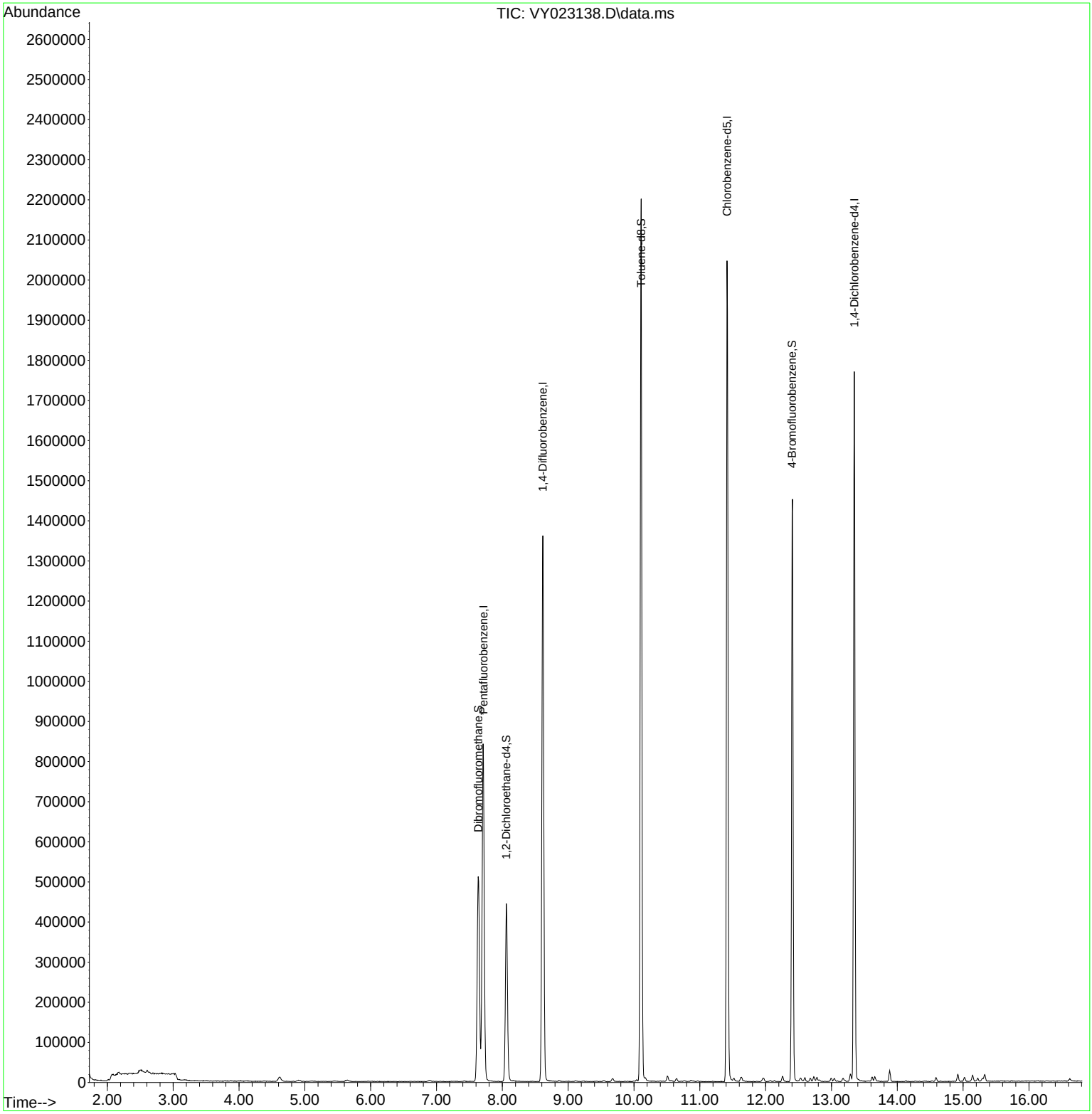
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	658468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1194271	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1104701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	444569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	335313	53.431	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.860%			
35) Dibromofluoromethane	7.634	113	374747	52.441	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.880%			
50) Toluene-d8	10.109	98	1432079	51.298	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.600%			
62) 4-Bromofluorobenzene	12.402	95	444143	49.470	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.940%			
Target Compounds						Qvalue

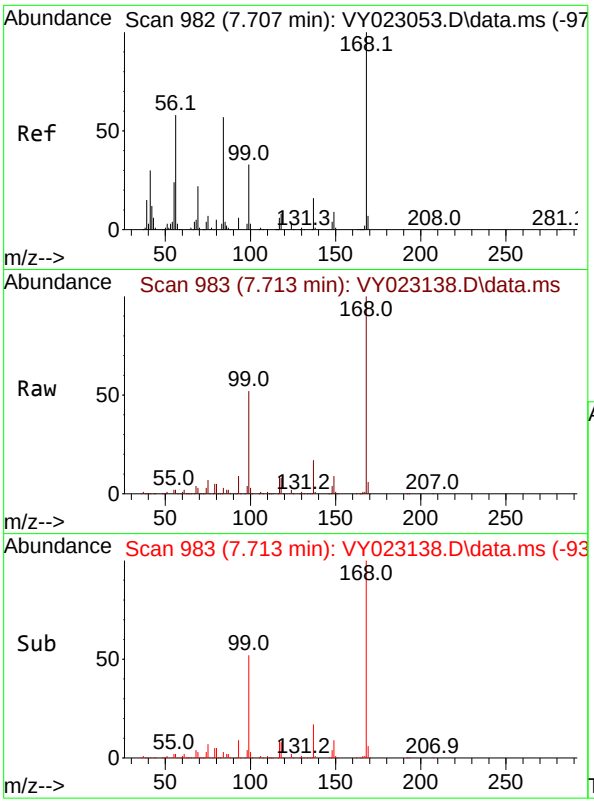
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Quant Time: Aug 20 01:24:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



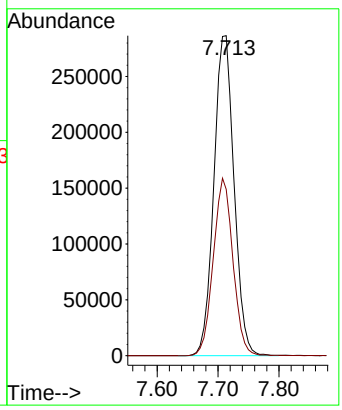


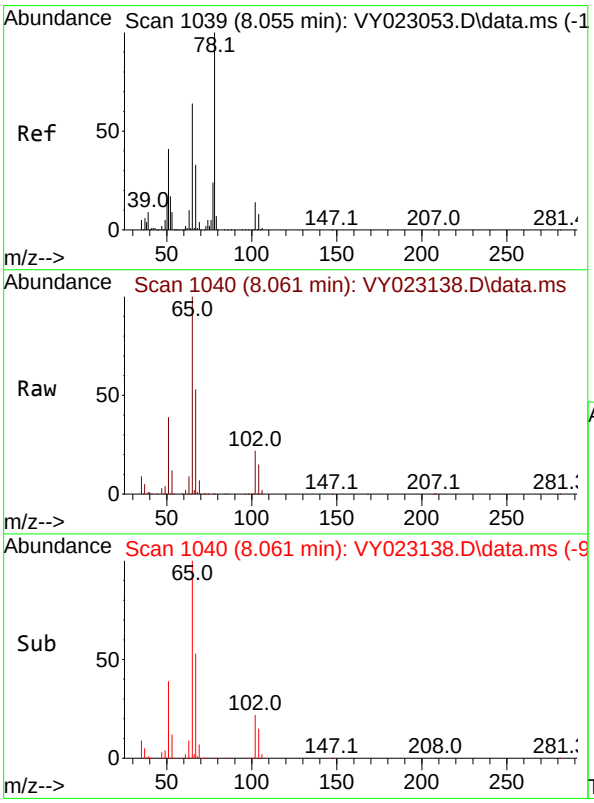
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Tgt Ion:168 Resp: 658468

Ion	Ratio	Lower	Upper
168	100		
99	52.0	42.8	64.2

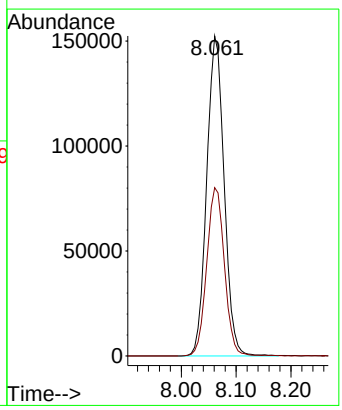


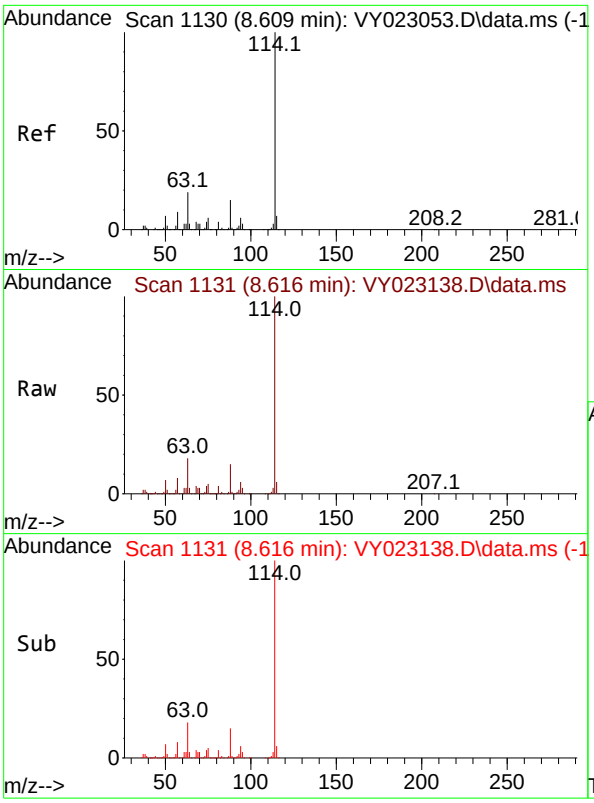


#33
1,2-Dichloroethane-d4
Concen: 53.431 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion: 65 Resp: 335313

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.8



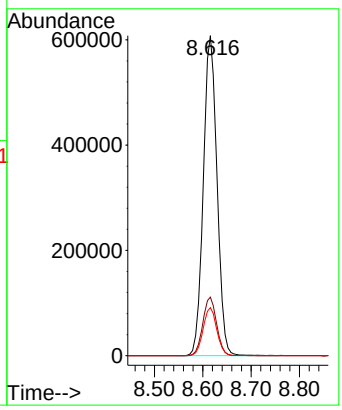


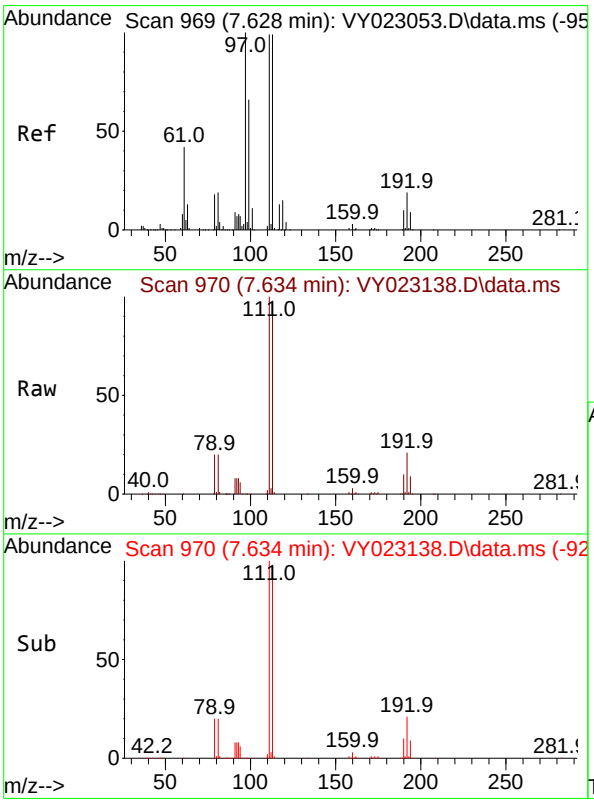
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Tgt Ion:114 Resp: 1194271

Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	38.4
88	15.0	0.0	30.0

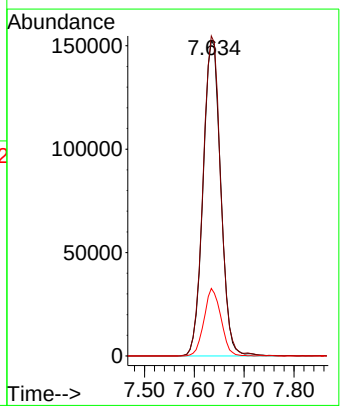


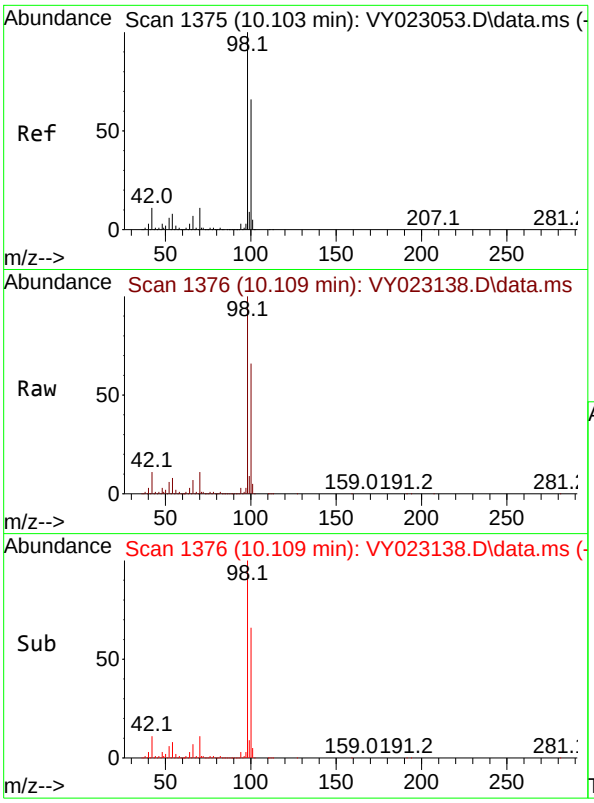


#35
Dibromofluoromethane
Concen: 52.441 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion:113 Resp: 374747

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	20.5	16.2	24.4



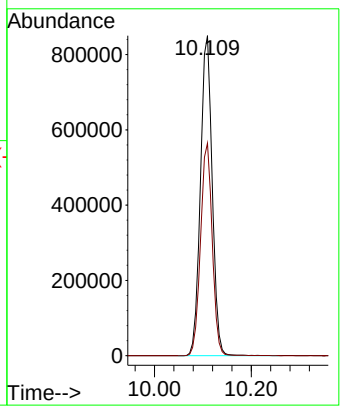


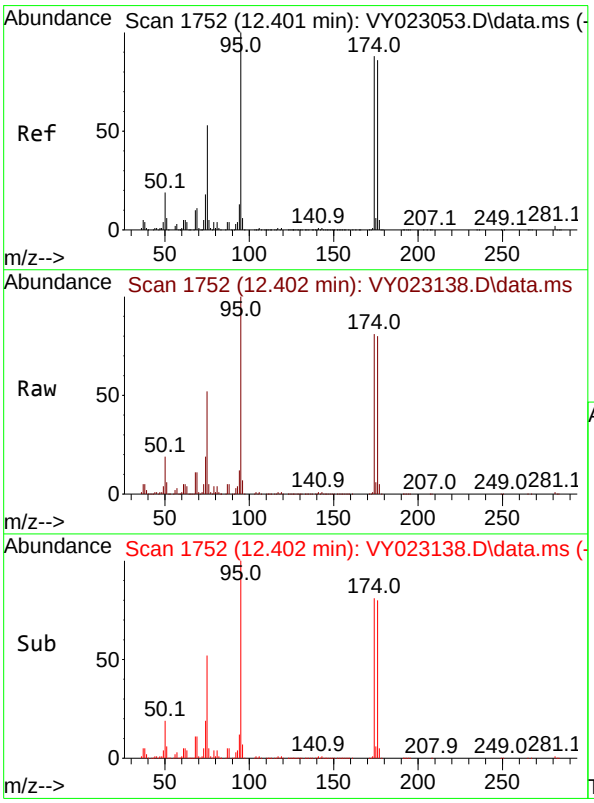
#50
Toluene-d8
Concen: 51.298 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Tgt Ion: 98 Resp: 1432079

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.3	78.5

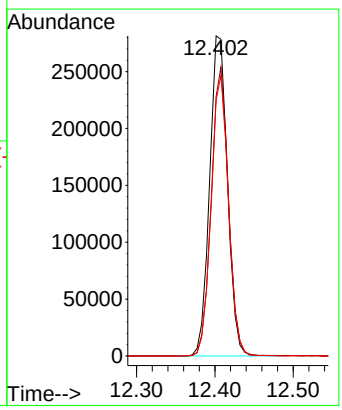


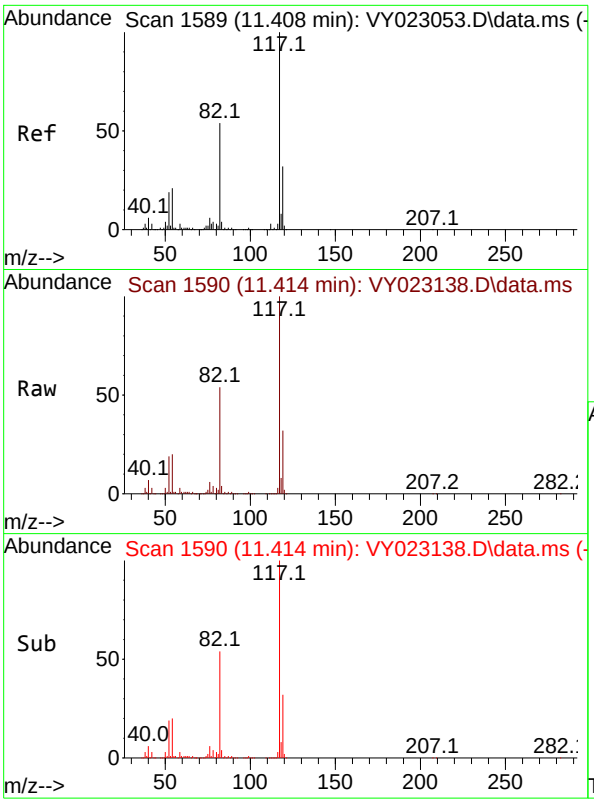


#62
4-Bromofluorobenzene
Concen: 49.470 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion: 95 Resp: 444143

Ion	Ratio	Lower	Upper
95	100		
174	87.2	0.0	171.6
176	85.2	0.0	167.6



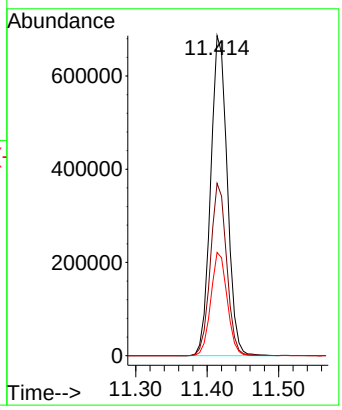


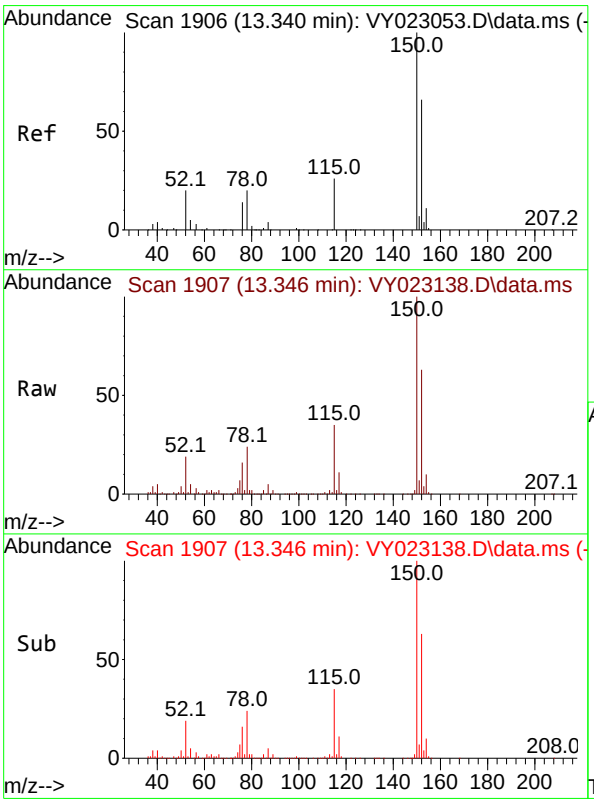
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Tgt Ion:117 Resp: 1104701

Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.4	65.0
119	32.3	25.6	38.4

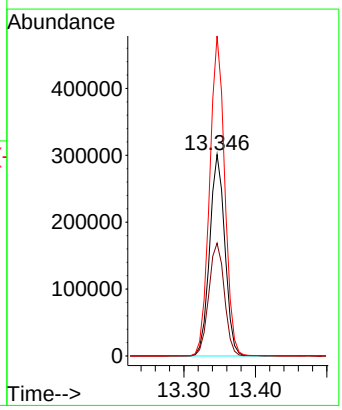




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion:152 Resp: 444569

Ion	Ratio	Lower	Upper
152	100		
115	57.6	28.2	84.6
150	157.2	0.0	348.0



Sample Results: **VY023138.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023138.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% of max.	% of total
1	7.634	958	970	976	rBV	510580	1243928	33.33%	6.594%
2	7.707	976	982	999	rVB	840685	1892132	50.70%	10.030%
3	8.061	1028	1040	1054	rBV	443697	971326	26.03%	5.149%
4	8.616	1120	1131	1146	rBV	1360918	2685104	71.95%	14.234%
5	10.109	1368	1376	1385	rBV	2198754	3731783	100.00%	19.782%
6	11.414	1583	1590	1603	rBV	2046252	3307378	88.63%	17.533%
7	12.408	1744	1753	1766	rBV	1451914	2322536	62.24%	12.312%
8	13.346	1901	1907	1923	rVB	1768318	2667628	71.48%	14.141%
9	13.883	1989	1995	2002	rVB2	27347	42356	1.14%	0.225%

Sum of corrected areas: 18864171

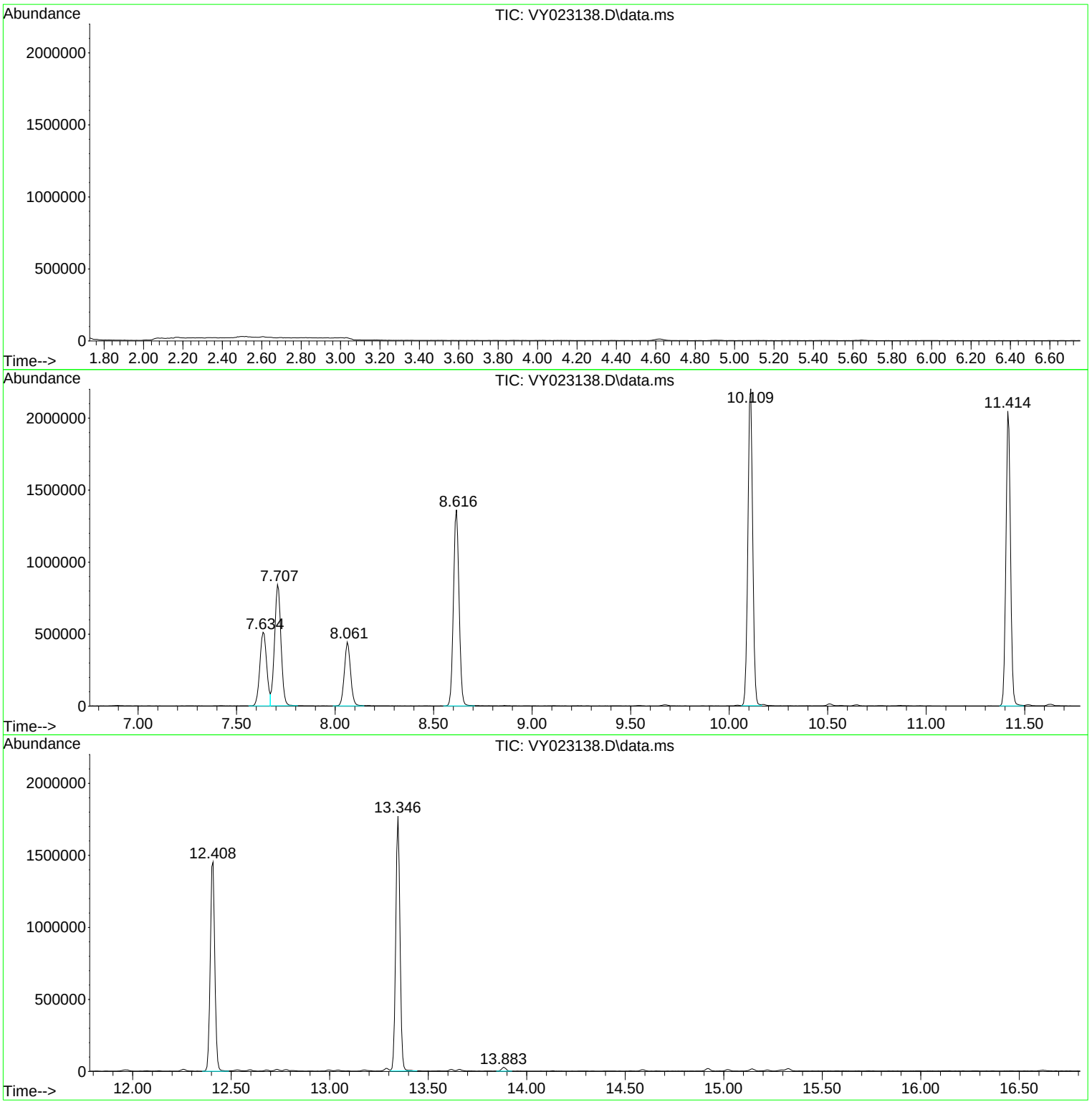
Sample Results: **VY023138.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023138.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBS01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032082.D	1	08/14/25 10:27	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	22.1		1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	18.3		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.6		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	21.7		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	20.2		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.9		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.9		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.4		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	120		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.5		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.1		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	17.2		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	17.6		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.6		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.2		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	17.3		0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	95.6		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	22.1		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.9		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	19.2		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	19.6		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.8		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.0		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.2		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	2.50	5.00	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBS01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032082.D	1	08/14/25 10:27	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.0		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.7		0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.0		0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.5		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.4		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.2		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.1		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.1		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	22.1		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.5		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.4		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.0		1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.0		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.2		71 - 136		98%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	51.8		85 - 116		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	209000	7.959				
540-36-3	1,4-Difluorobenzene	361000	8.849				
3114-55-4	Chlorobenzene-d5	335000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.556				

Raw Data: **VW032082.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBS01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032082.D	1	08/14/25 10:27	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	208549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	361028	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	335310	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	148274	49.159	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 98.320%			
35) Dibromofluoromethane	7.898	113	124570	53.409	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 106.820%			
50) Toluene-d8	10.325	98	447242	51.843	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 103.680%			
62) 4-Bromofluorobenzene	12.617	95	156394	49.195	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 98.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.039	85	32981	22.111	ug/l	95
3) Chloromethane	2.253	50	36714	18.273	ug/l	100
4) Vinyl Chloride	2.405	62	47688	19.622	ug/l	91
5) Bromomethane	2.820	94	39599	21.718	ug/l	97
6) Chloroethane	2.966	64	32544	20.236	ug/l	97
7) Trichlorofluoromethane	3.295	101	36751	18.876	ug/l	93
8) Diethyl Ether	3.716	74	31522	19.762	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.094	101	50221	21.864	ug/l	97
10) Methyl Iodide	4.301	142	63316	19.442	ug/l	96
11) Tert butyl alcohol	5.222	59	17609	90.159	ug/l #	86
12) 1,1-Dichloroethene	4.076	96	54130	21.402	ug/l	99
13) Acrolein	3.923	56	25014	80.380	ug/l	99
14) Allyl chloride	4.704	41	62252	16.912	ug/l	89
15) Acrylonitrile	5.393	53	66066	86.957	ug/l	97
16) Acetone	4.155	43	81154	116.212	ug/l	96
17) Carbon Disulfide	4.417	76	118861	17.509	ug/l	97
18) Methyl Acetate	4.704	43	37911	17.156	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	80442	18.051	ug/l	97
20) Methylene Chloride	4.947	84	56840	17.604	ug/l	99
21) trans-1,2-Dichloroethene	5.454	96	49845	18.571	ug/l	97
22) Diisopropyl ether	6.337	45	139100	17.925	ug/l	93
23) Vinyl Acetate	6.283	43	471681	92.580	ug/l	99
24) 1,1-Dichloroethane	6.240	63	90076	18.168	ug/l	99
25) 2-Butanone	7.191	43	94859	95.576	ug/l	99
26) 2,2-Dichloropropane	7.185	77	46011	18.498	ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	59218	18.875	ug/l	96
28) Bromochloromethane	7.526	49	43295	19.189	ug/l	94
29) Tetrahydrofuran	7.551	42	57438	87.753	ug/l	98
30) Chloroform	7.691	83	102932	19.583	ug/l	96
31) Cyclohexane	7.965	56	74302	17.286	ug/l	96
32) 1,1,1-Trichloroethane	7.892	97	74063	19.399	ug/l	99
36) 1,1-Dichloropropene	8.093	75	67400	20.499	ug/l	100
37) Ethyl Acetate	7.276	43	39578	20.438	ug/l	97
38) Carbon Tetrachloride	8.087	117	70115	22.097	ug/l	98
39) Methylcyclohexane	9.343	83	75369	18.806	ug/l	96
40) Benzene	8.331	78	208337	20.384	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	20590	18.749	ug/l		92
42) 1,2-Dichloroethane	8.410	62	71790	21.951	ug/l		99
43) Isopropyl Acetate	8.435	43	69849	19.605	ug/l		99
44) Trichloroethene	9.099	130	50257	20.648	ug/l		97
45) 1,2-Dichloropropane	9.374	63	48874	19.794	ug/l		99
46) Dibromomethane	9.465	93	34741	21.800	ug/l		99
47) Bromodichloromethane	9.648	83	77846	21.199	ug/l		98
48) Methyl methacrylate	9.441	41	32666	18.991	ug/l	#	92
49) 1,4-Dioxane	9.459	88	7897	383.262	ug/l	#	79
51) 4-Methyl-2-Pentanone	10.209	43	207218	103.043	ug/l		96
52) Toluene	10.392	92	132319	20.554	ug/l		99
53) t-1,3-Dichloropropene	10.605	75	66557	19.346	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	77941	19.970	ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	43846	20.705	ug/l		96
56) Ethyl methacrylate	10.648	69	54454	19.216	ug/l	#	94
57) 1,3-Dichloropropane	10.934	76	75241	20.384	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	150289	95.881	ug/l		99
59) 2-Hexanone	10.971	43	145508	104.476	ug/l		94
60) Dibromochloromethane	11.129	129	52415	21.668	ug/l		97
61) 1,2-Dibromoethane	11.239	107	43206	20.995	ug/l		100
64) Tetrachloroethene	10.867	164	41545	21.451	ug/l		94
65) Chlorobenzene	11.660	112	148850	20.395	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.727	131	49016	21.525	ug/l		96
67) Ethyl Benzene	11.727	91	249471	20.179	ug/l		98
68) m/p-Xylenes	11.836	106	191394	40.121	ug/l		96
69) o-Xylene	12.166	106	87428	19.829	ug/l		98
70) Styrene	12.178	104	157674	20.133	ug/l		100
71) Bromoform	12.349	173	28805	22.114	ug/l	#	99
73) Isopropylbenzene	12.464	105	234043	19.298	ug/l		98
74) N-amyl acetate	12.269	43	63547	18.263	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	55414	19.244	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	47821m	20.303	ug/l		
77) Bromobenzene	12.745	156	58767	20.288	ug/l		89
78) n-propylbenzene	12.800	91	293106	19.630	ug/l		99
79) 2-Chlorotoluene	12.885	91	172088	18.674	ug/l		96
80) 1,3,5-Trimethylbenzene	12.940	105	199943	19.419	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	14926	16.406	ug/l	#	84
82) 4-Chlorotoluene	12.983	91	186440	19.042	ug/l		98
83) tert-Butylbenzene	13.202	119	162438	19.009	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	204141	19.477	ug/l		97
85) sec-Butylbenzene	13.379	105	246430	19.074	ug/l		100
86) p-Isopropyltoluene	13.495	119	210533	19.547	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	123661	21.455	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	112801	19.366	ug/l		96
89) n-Butylbenzene	13.818	91	203065	19.407	ug/l		97
90) Hexachloroethane	14.086	117	37065	18.817	ug/l		97
91) 1,2-Dichlorobenzene	13.867	146	109453	20.963	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	9291	18.149	ug/l		95
93) 1,2,4-Trichlorobenzene	15.123	180	60665	19.423	ug/l		99
94) Hexachlorobutadiene	15.226	225	28357	20.310	ug/l		99
95) Naphthalene	15.360	128	136270	17.805	ug/l		98
96) 1,2,3-Trichlorobenzene	15.549	180	56830	19.997	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

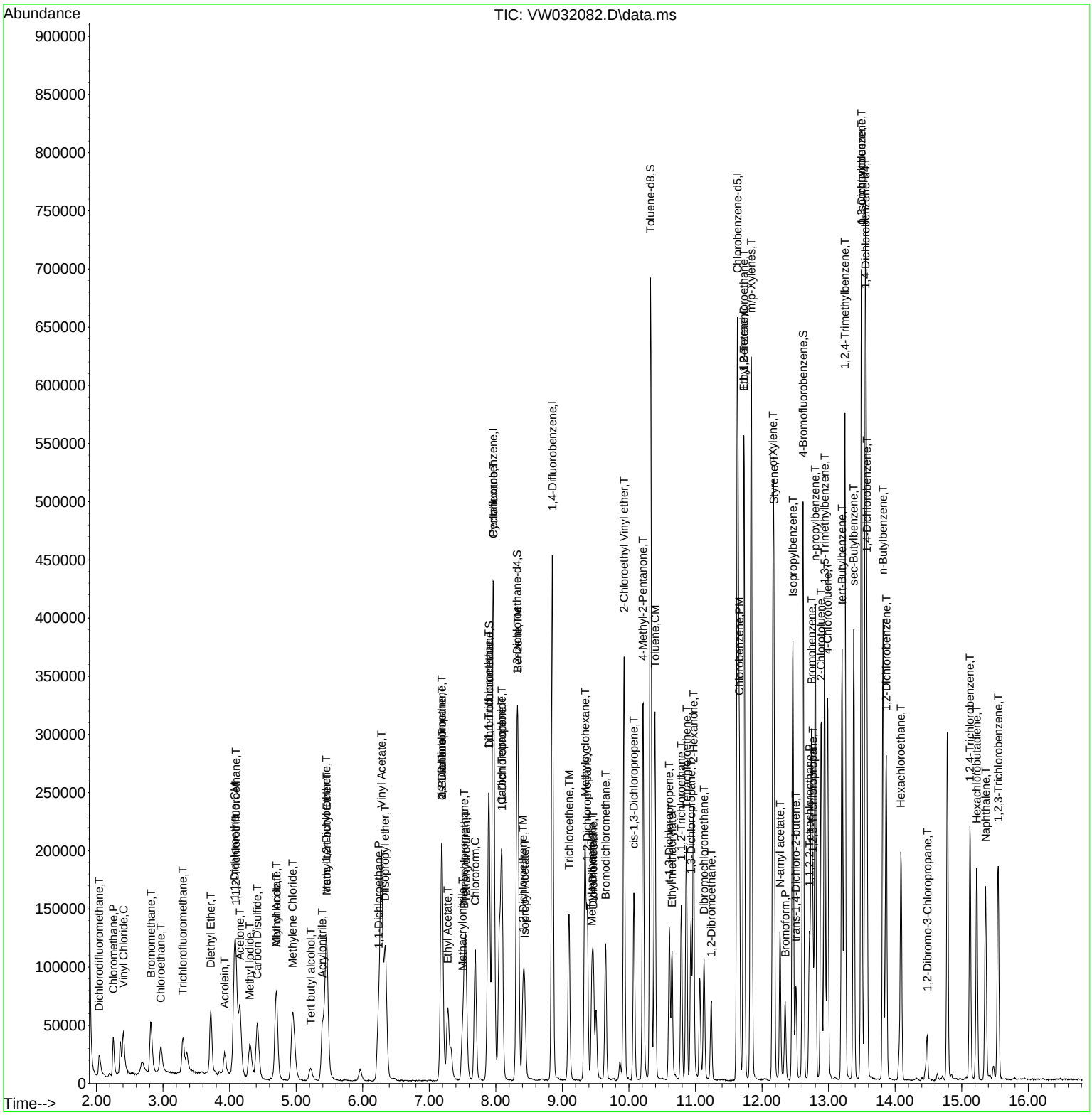
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

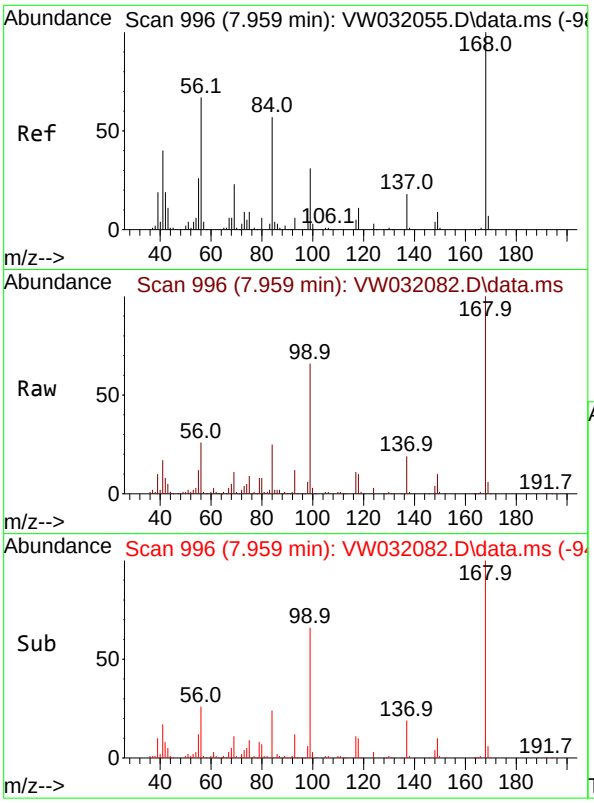
Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

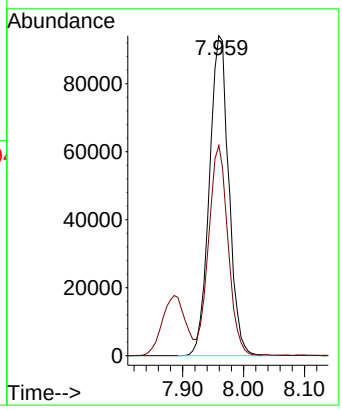




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:168 Resp: 20854

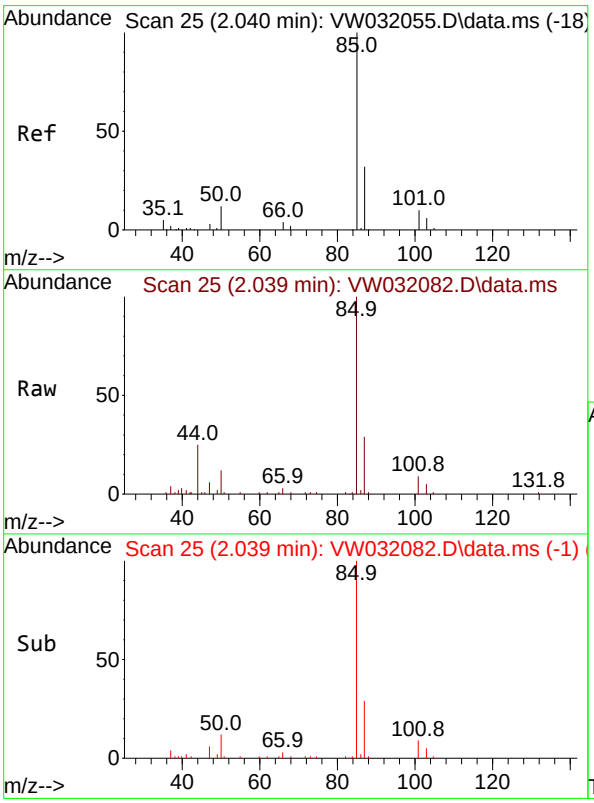
Ion	Ratio	Lower	Upper
168	100		
99	65.5	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations
APPROVED

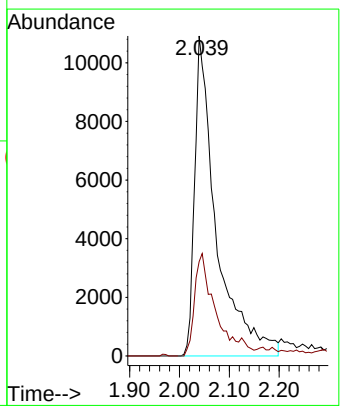
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

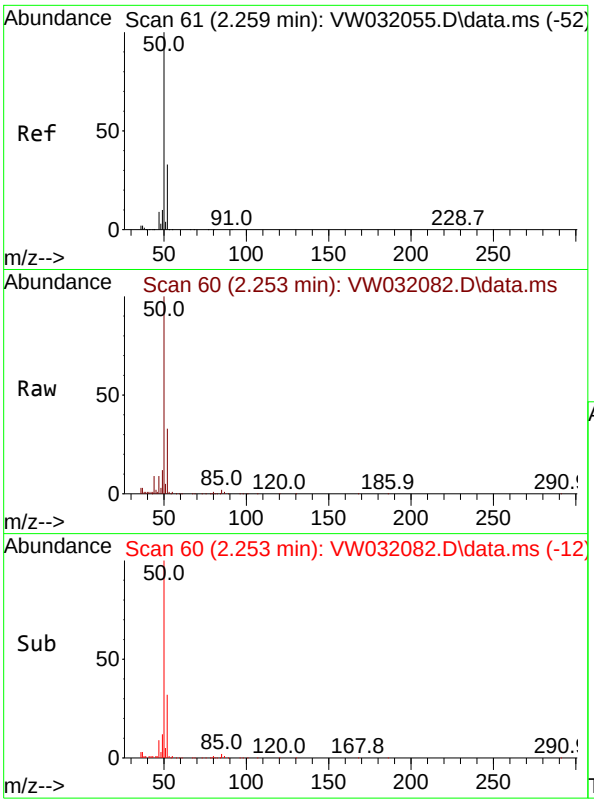


#2
Dichlorodifluoromethane
Concen: 22.111 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 85 Resp: 32981

Ion	Ratio	Lower	Upper
85	100		
87	29.5	16.2	48.6

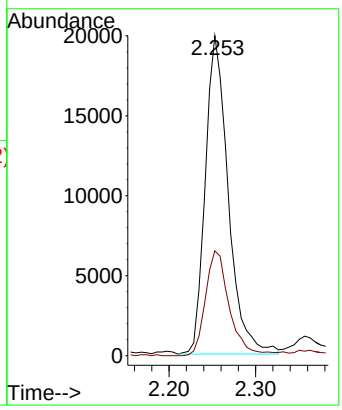




#3
Chloromethane
Concen: 18.273 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 50 Resp: 3671

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
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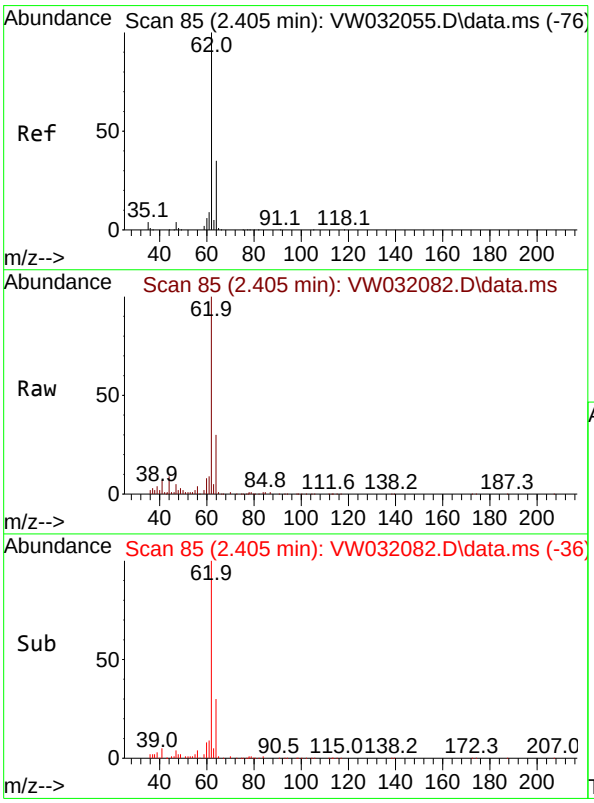
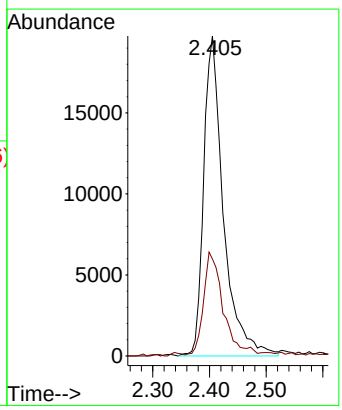
Supervised By :Mahesh Dadoda 08/19/2025

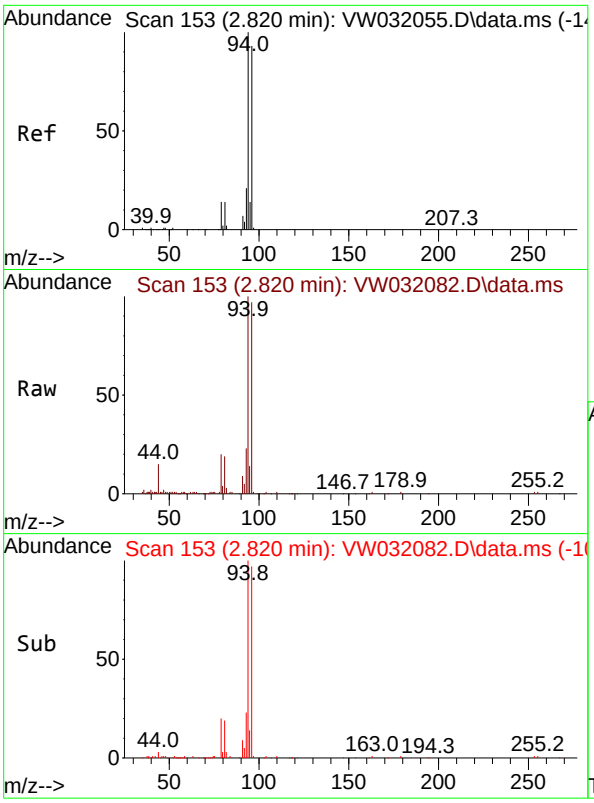


#4
Vinyl Chloride
Concen: 19.622 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 62 Resp: 47688

Ion	Ratio	Lower	Upper
62	100		
64	29.5	27.8	41.6





#5
Bromomethane
Concen: 21.718 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 94 Resp: 3959

Ion	Ratio	Lower	Upper
94	100		
96	96.6	74.7	112.1

Instrument :
MSVOA_W
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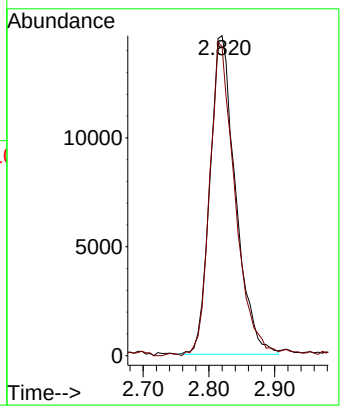
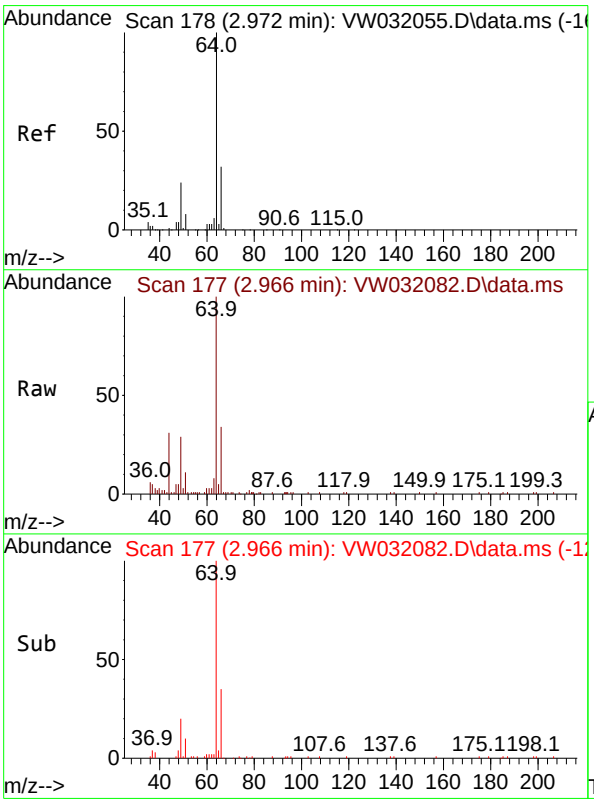
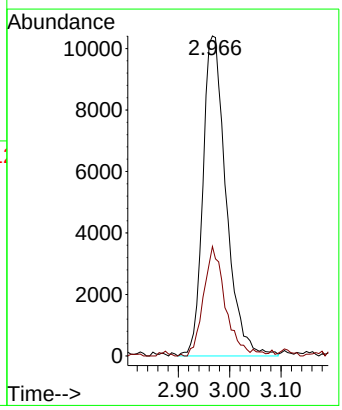


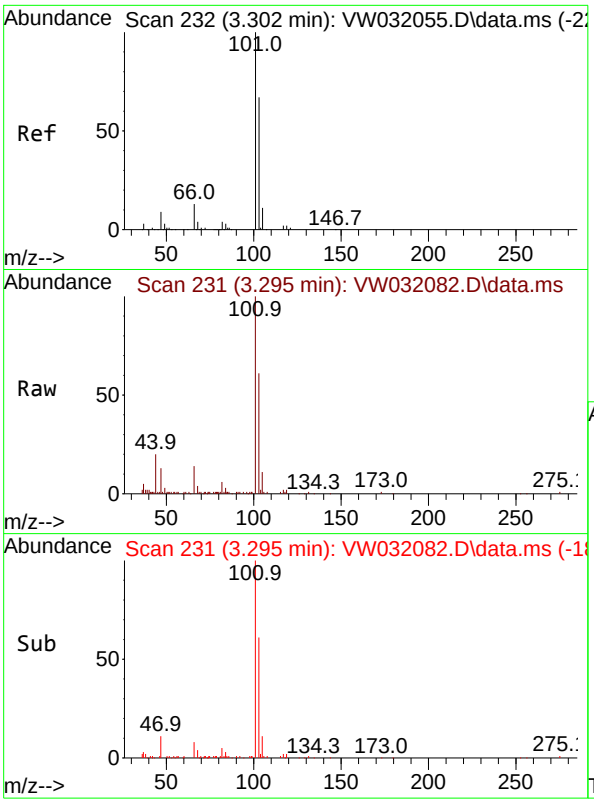


#6
Chloroethane
Concen: 20.236 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 64 Resp: 32544

Ion	Ratio	Lower	Upper
64	100		
66	34.2	26.0	39.0

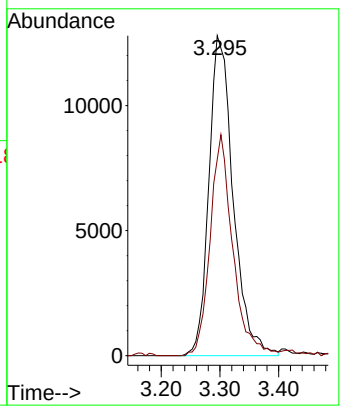




#7
Trichlorofluoromethane
Concen: 18.876 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:101 Resp: 3675

Ion	Ratio	Lower	Upper
101	100		
103	61.3	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
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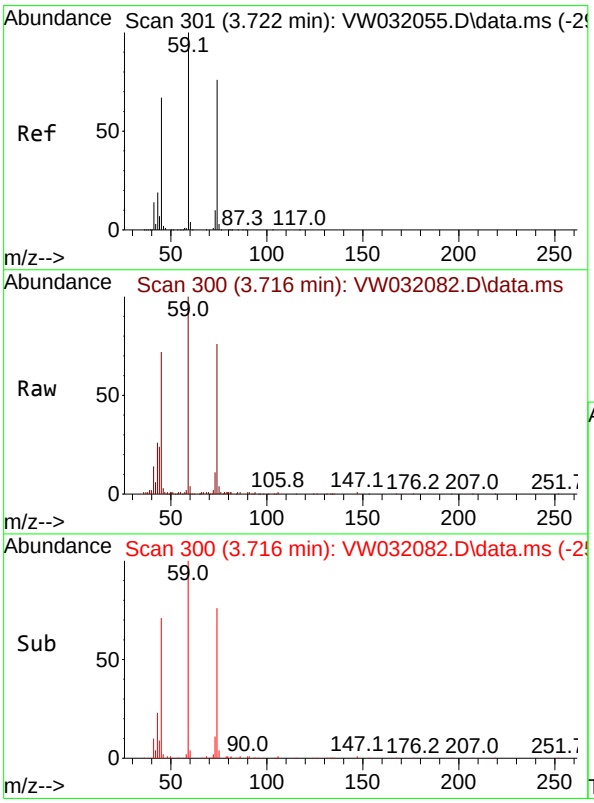
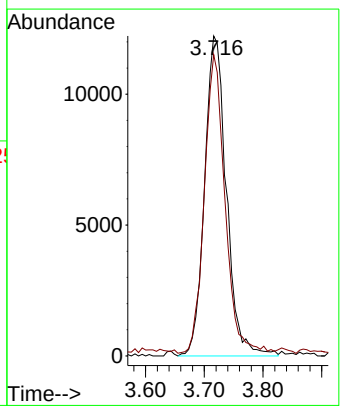
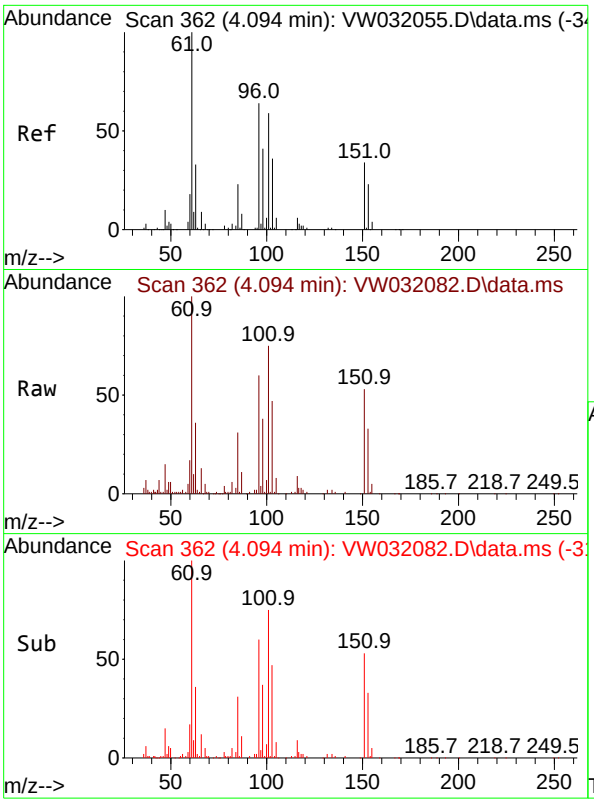


#8
Diethyl Ether
Concen: 19.762 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 74 Resp: 31522

Ion	Ratio	Lower	Upper
74	100		
45	88.4	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.864 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:101 Resp: 5022

Ion	Ratio	Lower	Upper
101	100		
85	46.1	34.9	52.3
151	72.6	56.2	84.4

Instrument :
MSVOA_W
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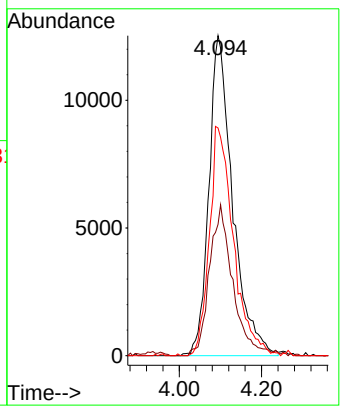
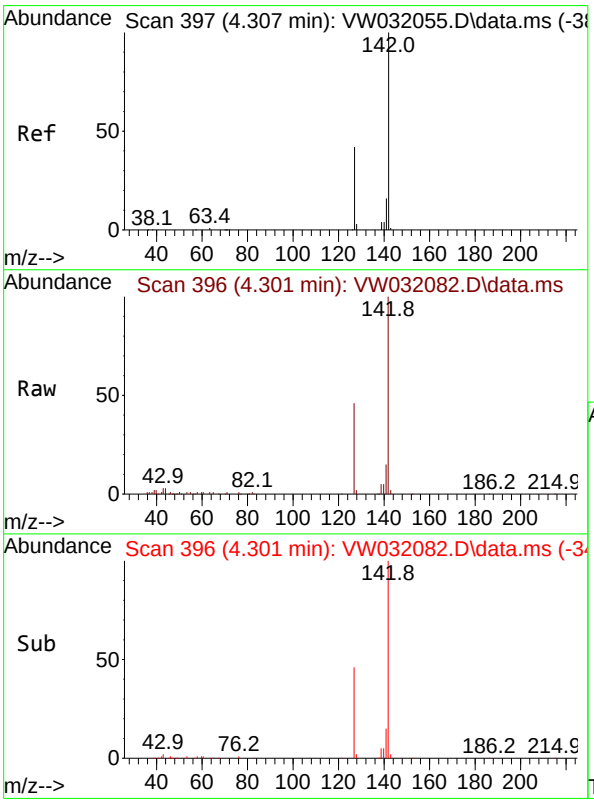
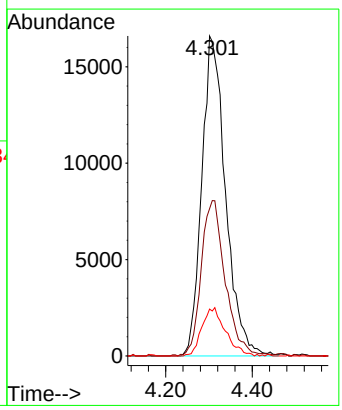


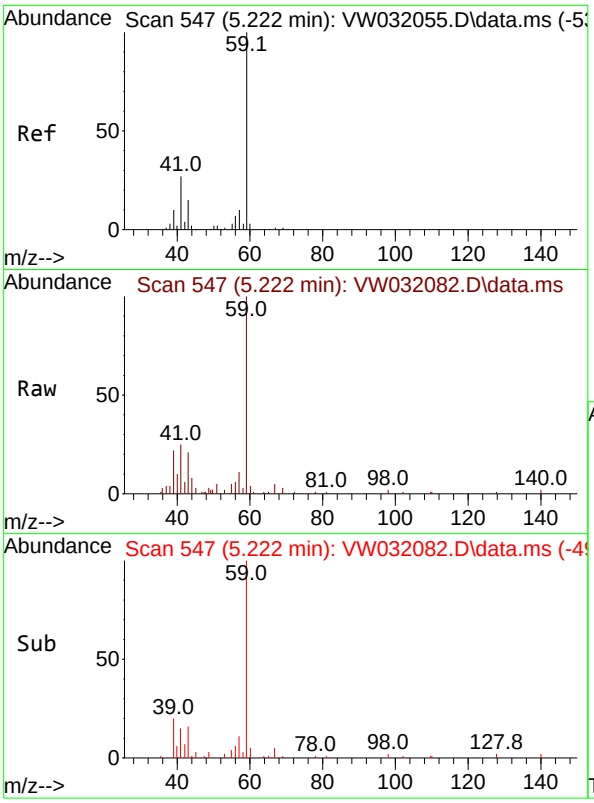


#10
Methyl Iodide
Concen: 19.442 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:142 Resp: 63316

Ion	Ratio	Lower	Upper
142	100		
127	49.0	36.6	55.0
141	15.0	12.1	18.1

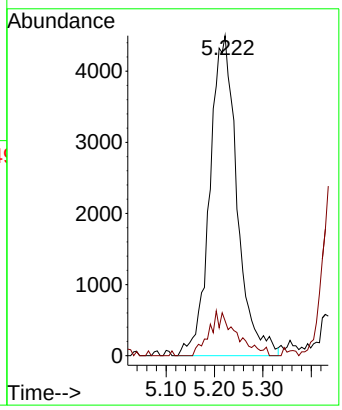




#11
Tert butyl alcohol
Concen: 90.159 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 59 Resp: 1760

Ion	Ratio	Lower	Upper
59	100		
57	5.5	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
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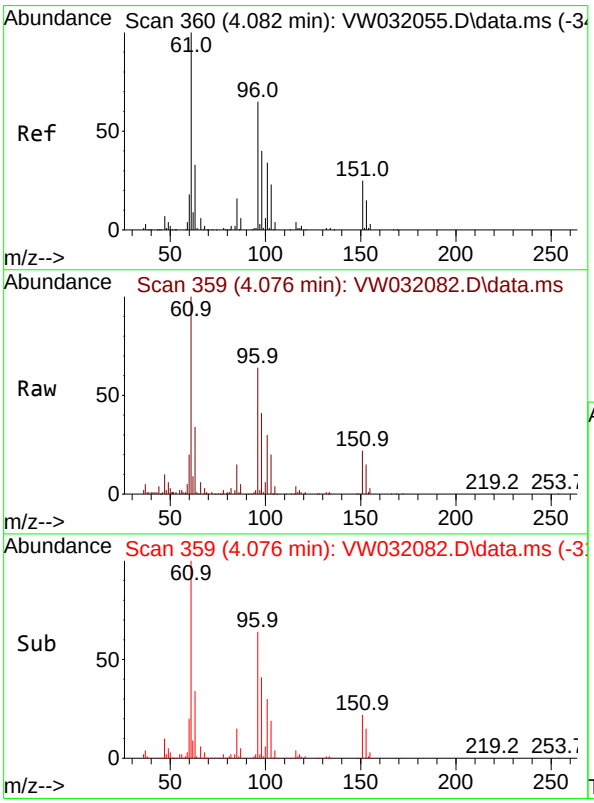
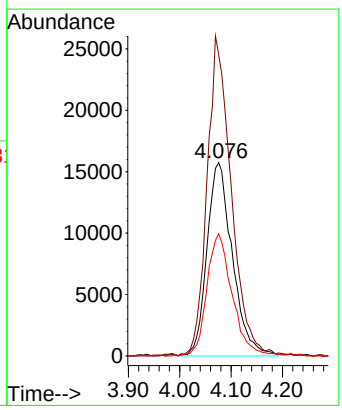
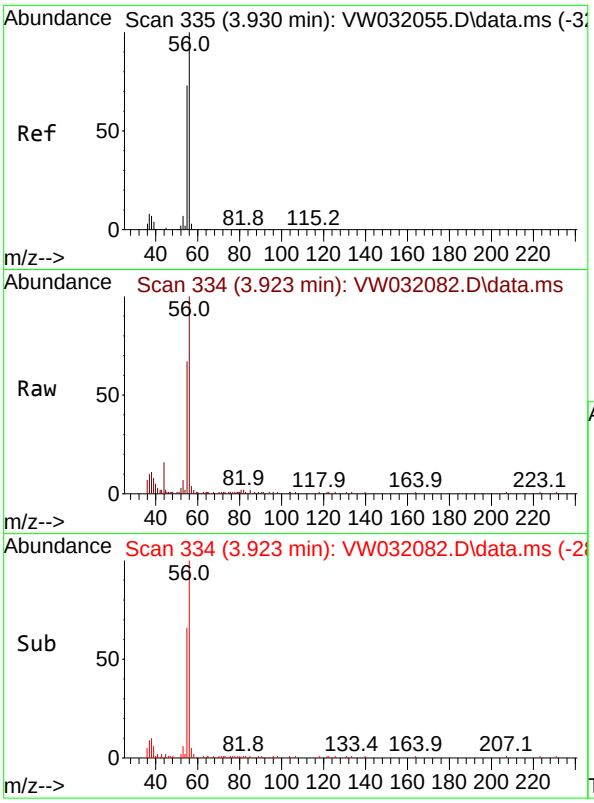


#12
1,1-Dichloroethene
Concen: 21.402 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 96 Resp: 54130

Ion	Ratio	Lower	Upper
96	100		
61	155.8	123.4	185.2
98	62.7	49.5	74.3

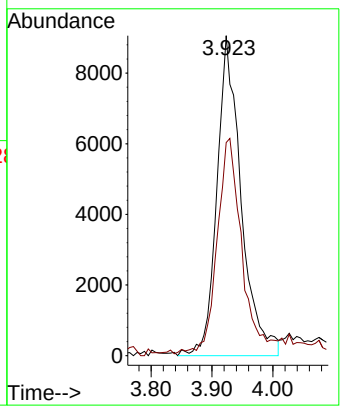




#13
Acrolein
Concen: 80.380 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 56 Resp: 2501

Ion	Ratio	Lower	Upper
56	100		
55	68.2	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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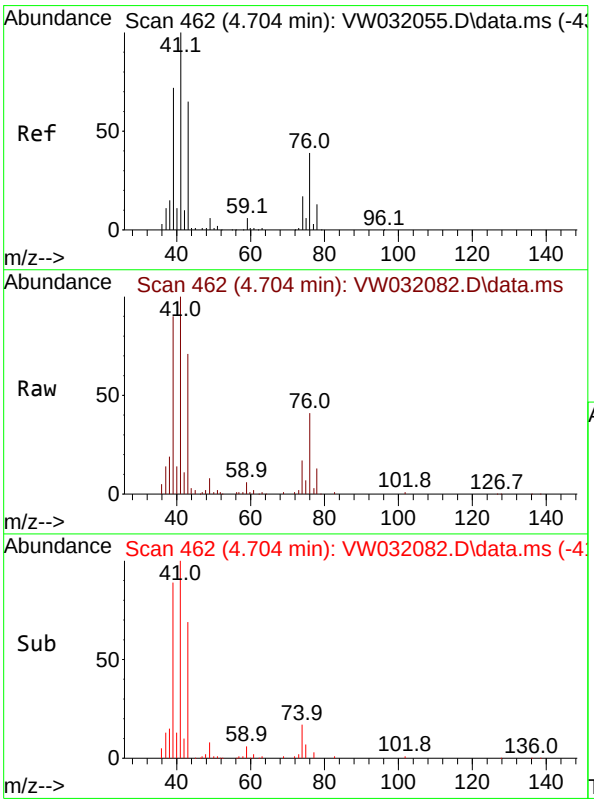
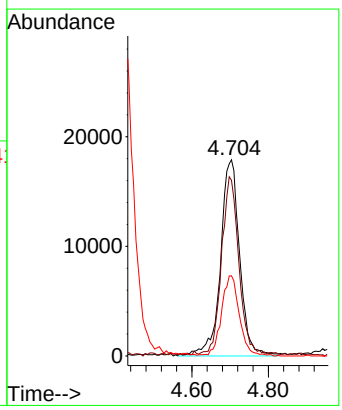
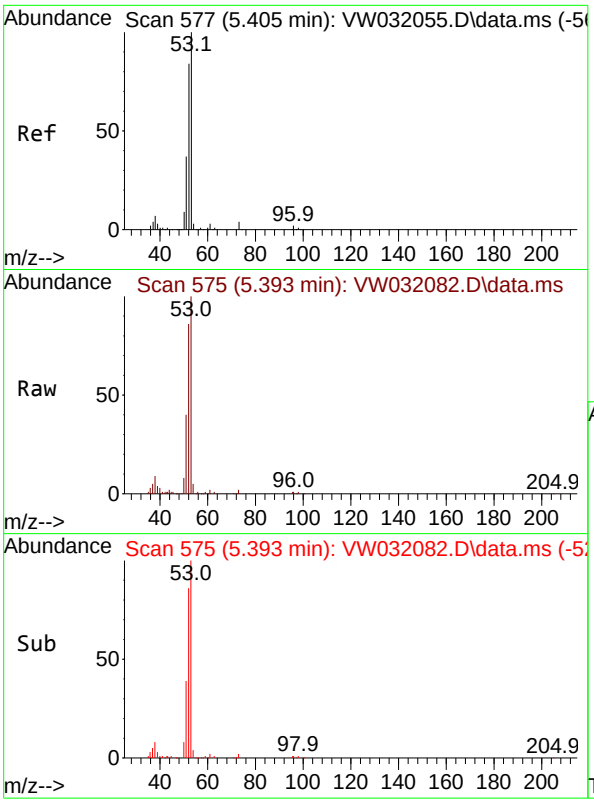


#14
Allyl chloride
Concen: 16.912 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 41 Resp: 62252

Ion	Ratio	Lower	Upper
41	100		
39	80.3	54.5	81.7
76	38.2	29.3	43.9

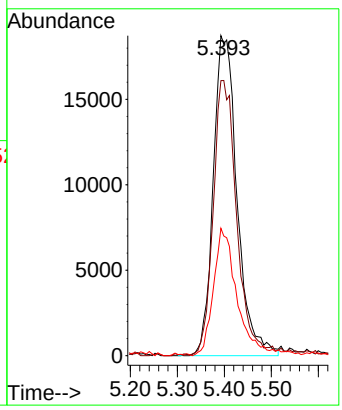




#15
Acrylonitrile
Concen: 86.957 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 53 Resp: 6606

Ion	Ratio	Lower	Upper
53	100		
52	84.8	66.1	99.1
51	38.5	29.2	43.8



Instrument :
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ClientSampleId :
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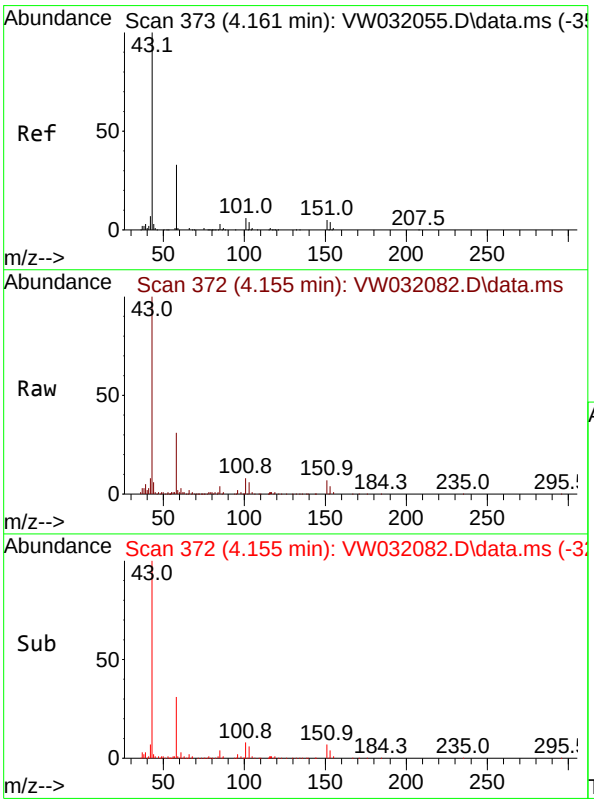
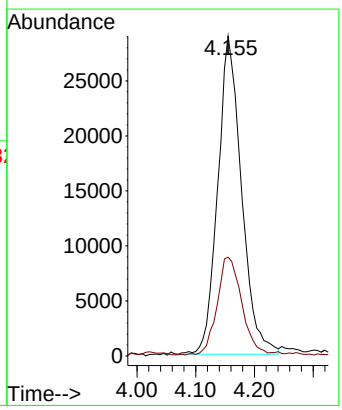
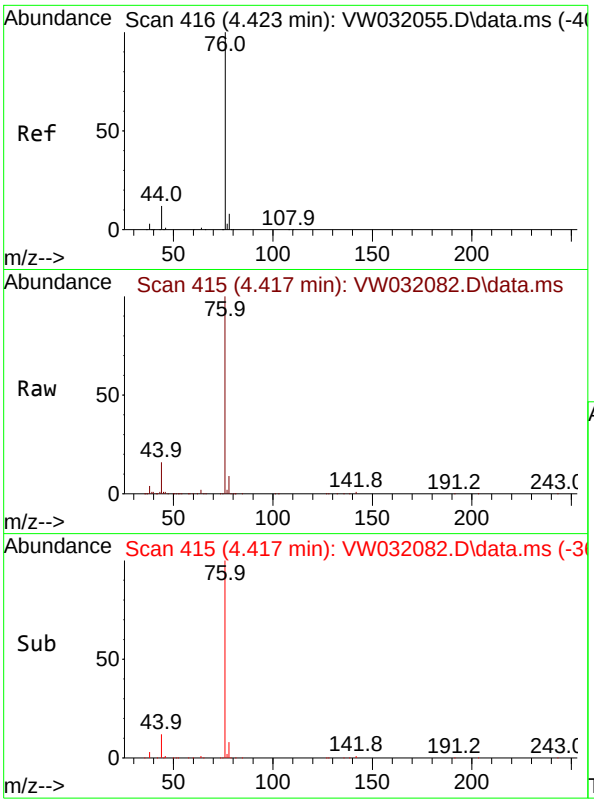


#16
Acetone
Concen: 116.212 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 81154

Ion	Ratio	Lower	Upper
43	100		
58	30.7	26.6	39.8

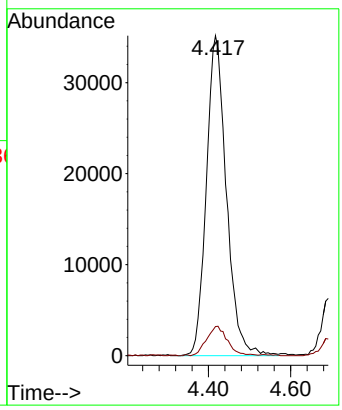




#17
Carbon Disulfide
Concen: 17.509 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 76 Resp: 11886

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
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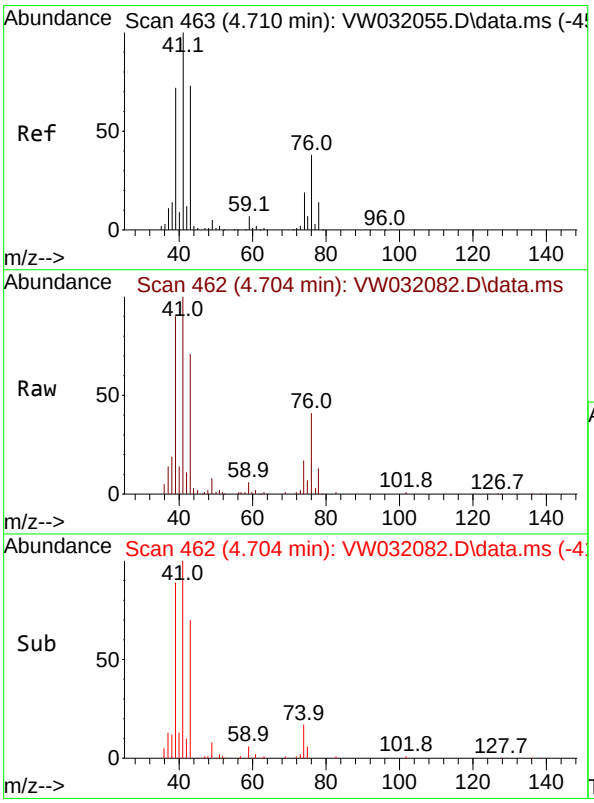
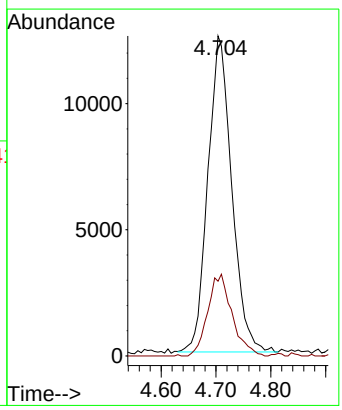
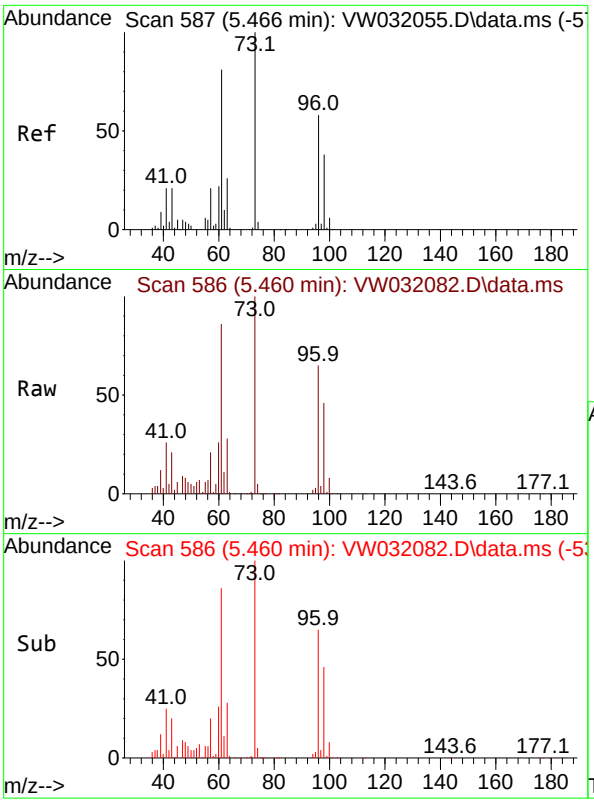


#18
Methyl Acetate
Concen: 17.156 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 37911

Ion	Ratio	Lower	Upper
43	100		
74	26.2	20.6	31.0

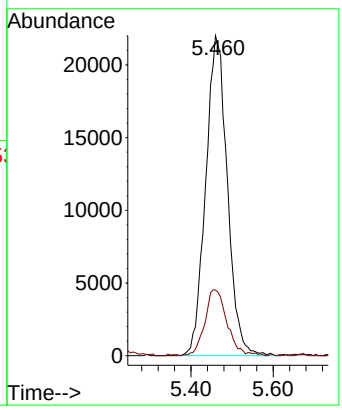




#19
Methyl tert-butyl Ether
Concen: 18.051 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 73 Resp: 8044

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
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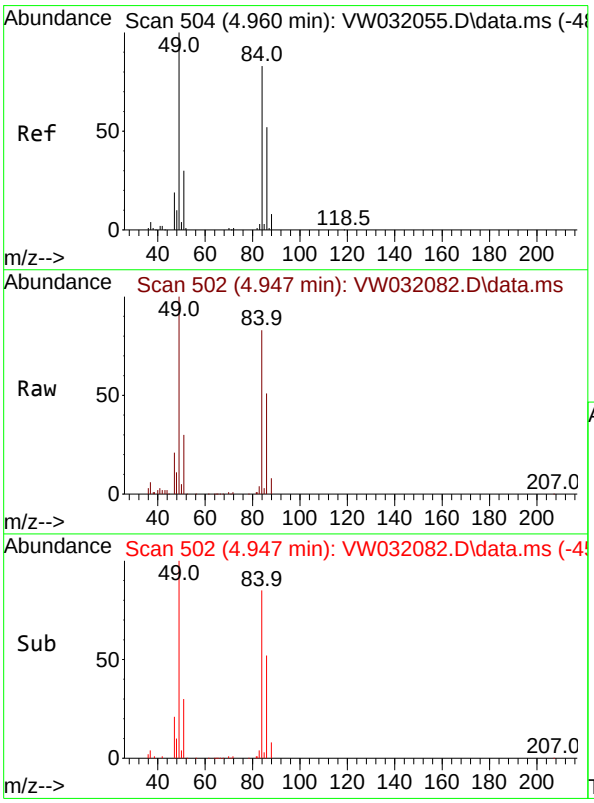
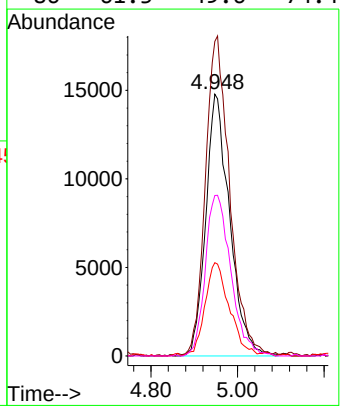
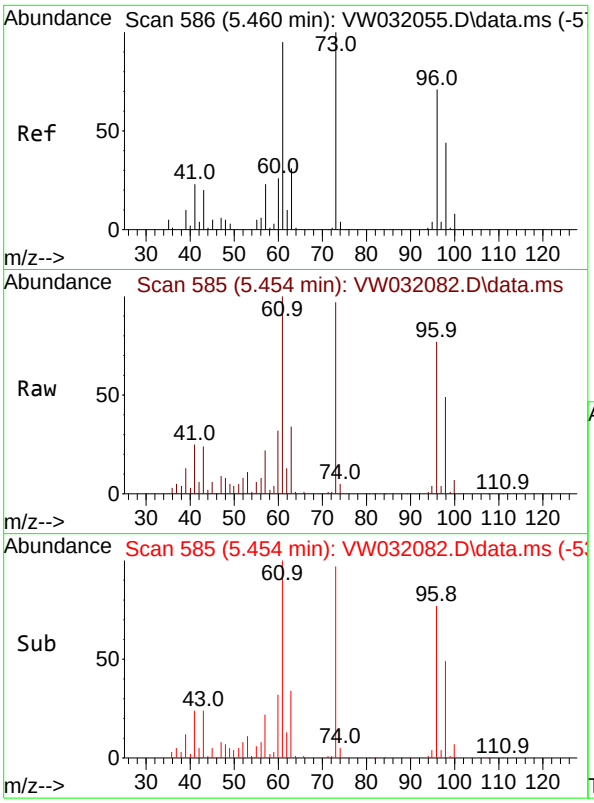


#20
Methylene Chloride
Concen: 17.604 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 84 Resp: 56840

Ion	Ratio	Lower	Upper
84	100		
49	119.5	95.9	143.9
51	35.2	28.6	43.0
86	61.3	49.6	74.4

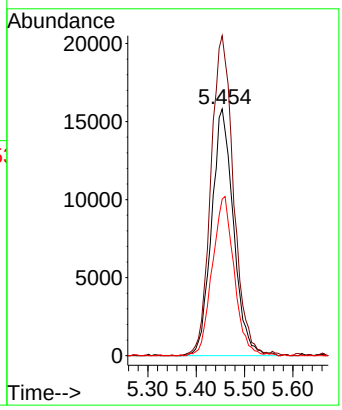




#21
trans-1,2-Dichloroethene
Concen: 18.571 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 96 Resp: 4984

Ion	Ratio	Lower	Upper
96	100		
61	129.7	106.8	160.2
98	63.5	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
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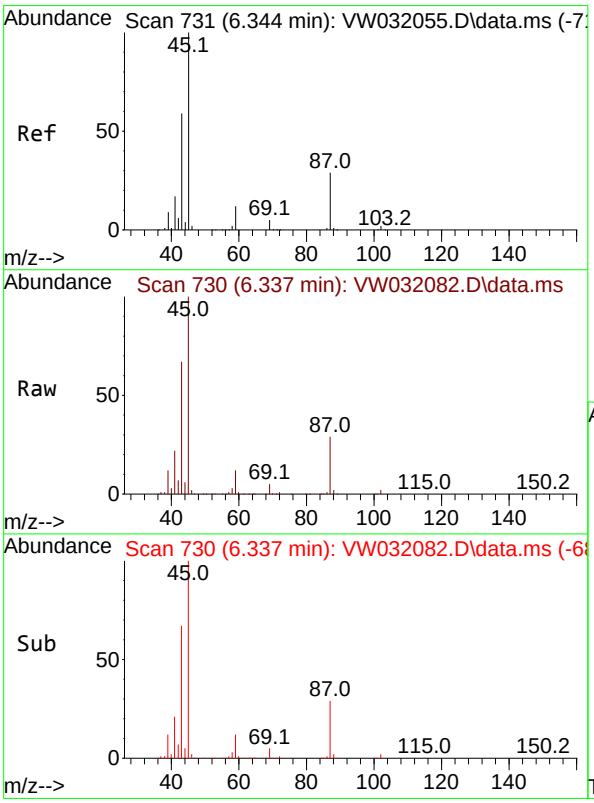
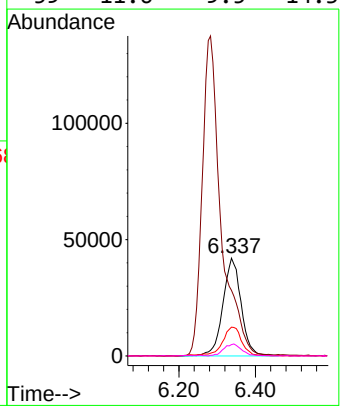
Supervised By :Mahesh Dadoda 08/19/2025

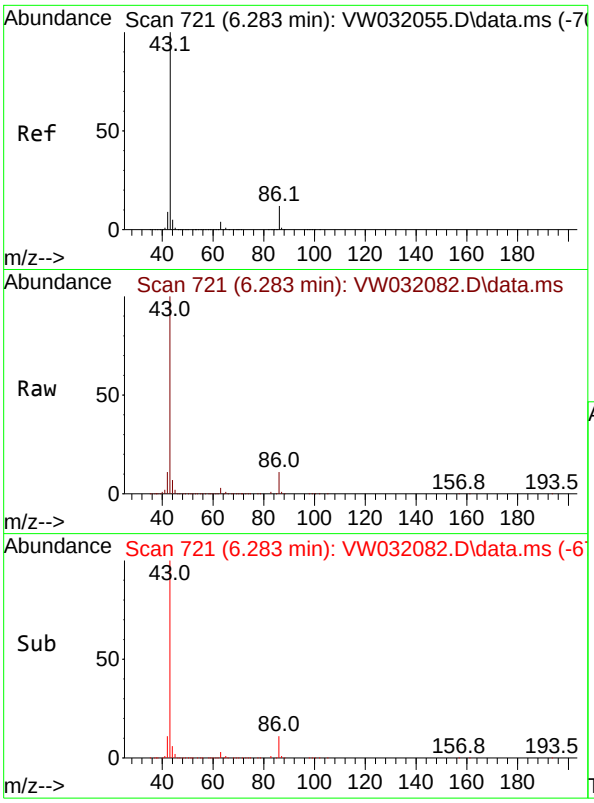


#22
Diisopropyl ether
Concen: 17.925 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 45 Resp: 139100

Ion	Ratio	Lower	Upper
45	100		
43	67.2	47.0	70.4
87	29.2	23.8	35.8
59	11.6	9.5	14.3





#23
Vinyl Acetate
Concen: 92.580 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 47168

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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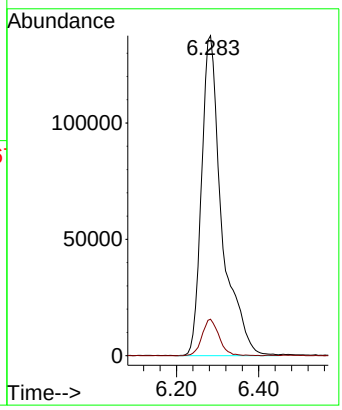
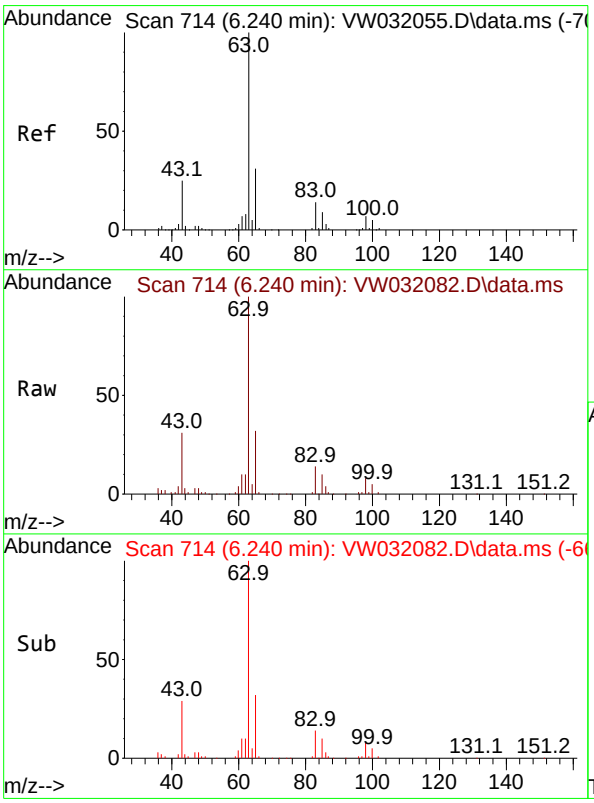
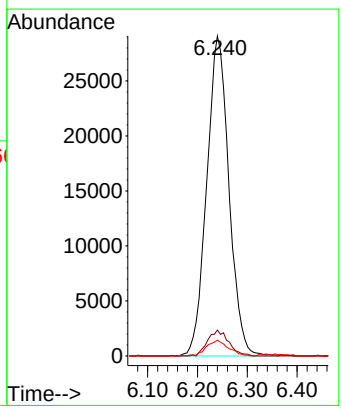


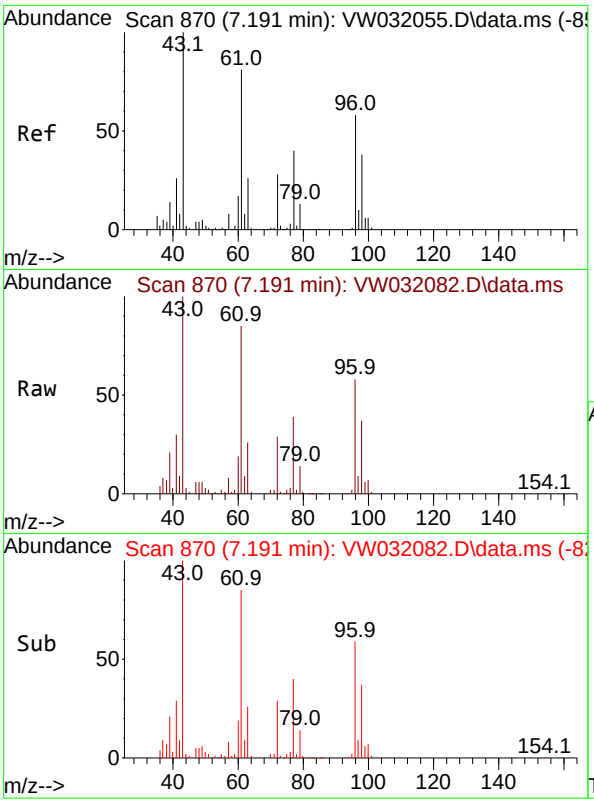


#24
1,1-Dichloroethane
Concen: 18.168 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 63 Resp: 90076

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.7	11.1
100	4.9	2.5	7.4





#25
2-Butanone
Concen: 95.576 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 9485

Ion	Ratio	Lower	Upper
43	100		
72	28.6	22.3	33.5

Instrument :
MSVOA_W
ClientSampleId :
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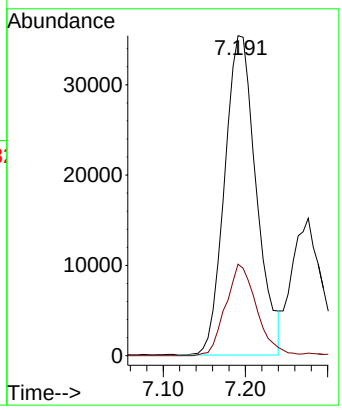
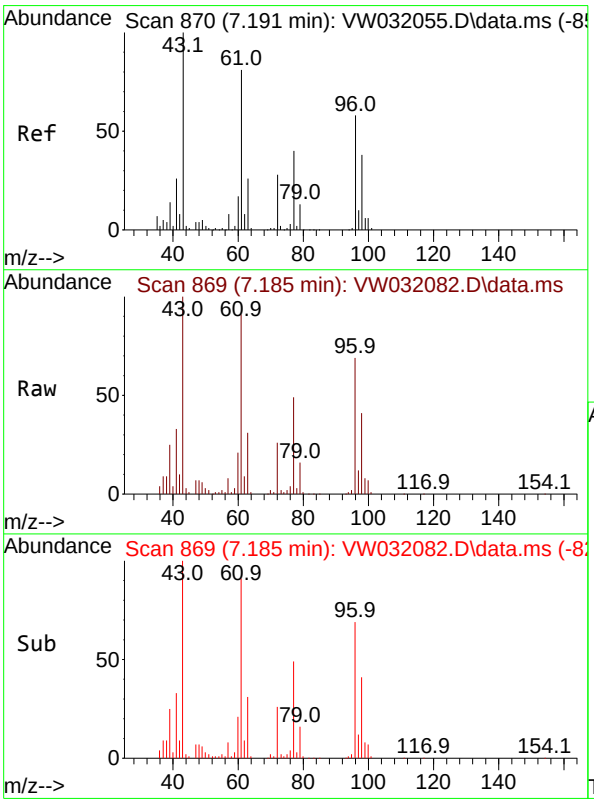
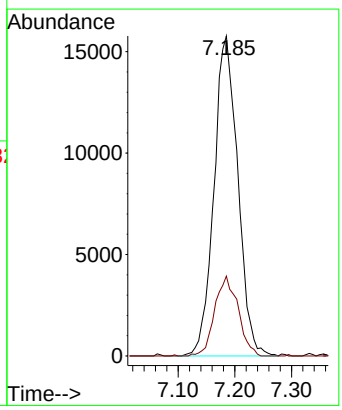


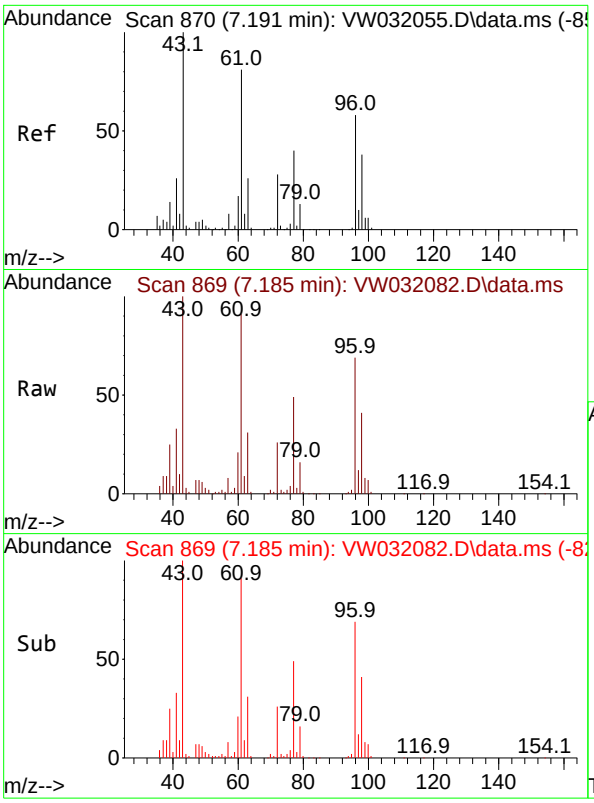


#26
2,2-Dichloropropane
Concen: 18.498 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 77 Resp: 46011

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 18.875 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 96 Resp: 5921

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	281.2
98	63.3	0.0	130.8

Instrument :
MSVOA_W
ClientSampleId :
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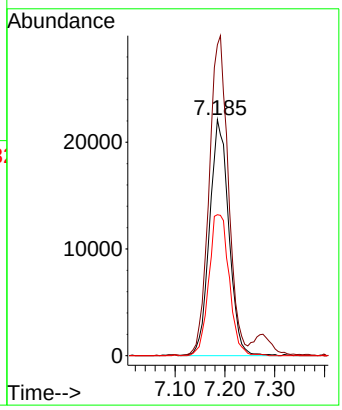
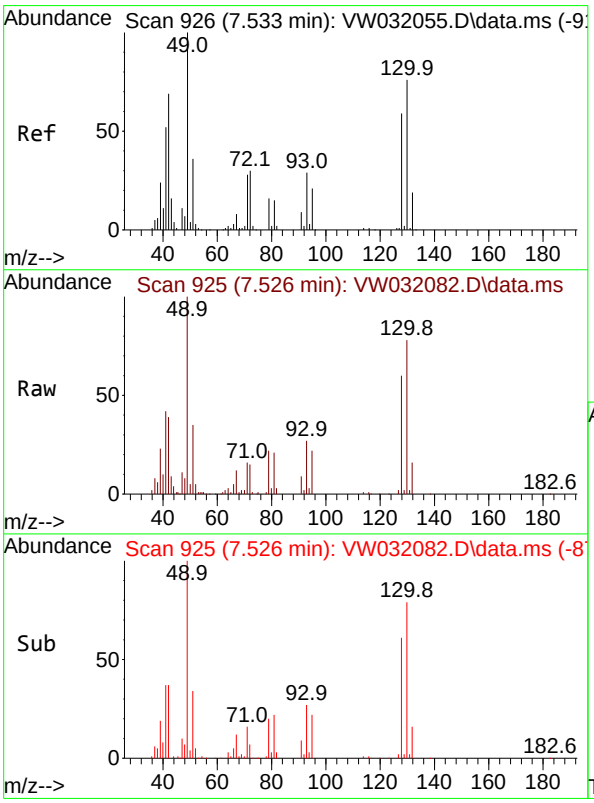
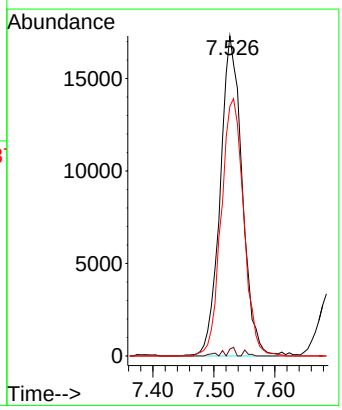


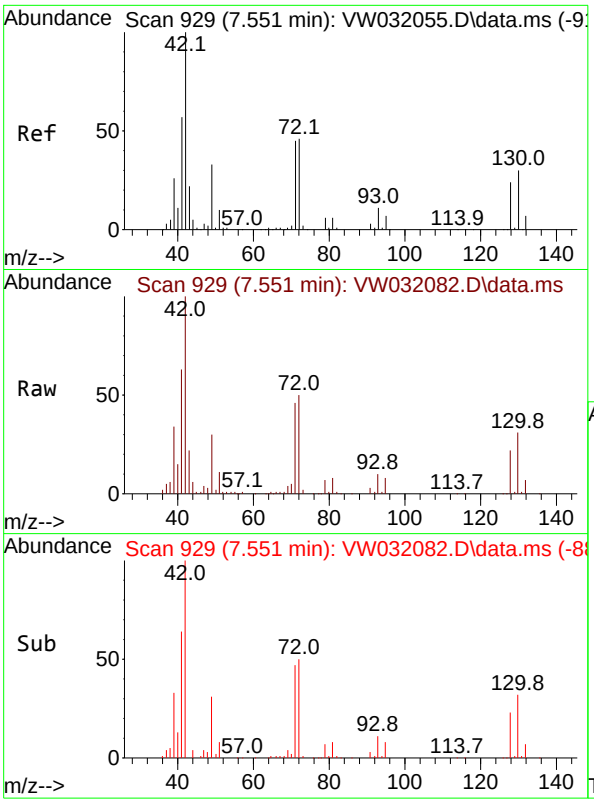


#28
Bromochloromethane
Concen: 19.189 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 49 Resp: 43295

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	82.3	61.9	92.9

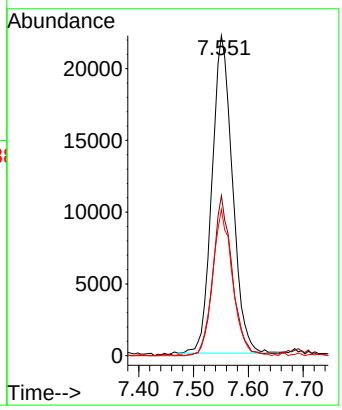




#29
Tetrahydrofuran
Concen: 87.753 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 42 Resp: 5743

Ion	Ratio	Lower	Upper
42	100		
72	47.1	36.6	55.0
71	44.8	34.7	52.1



Instrument :
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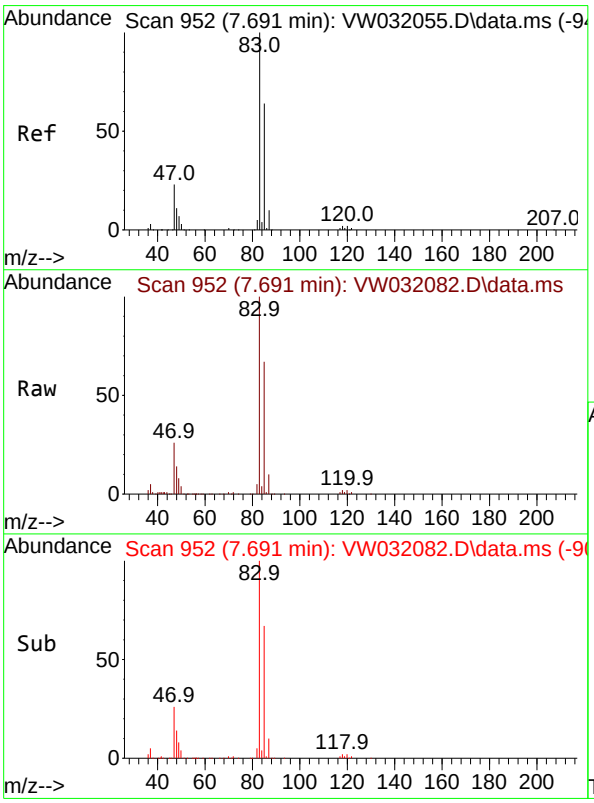
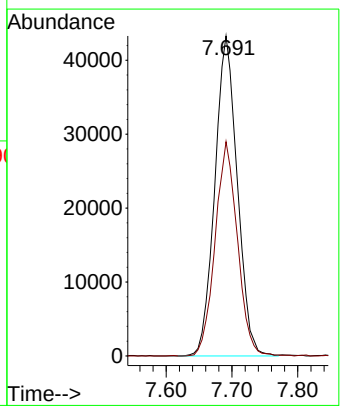
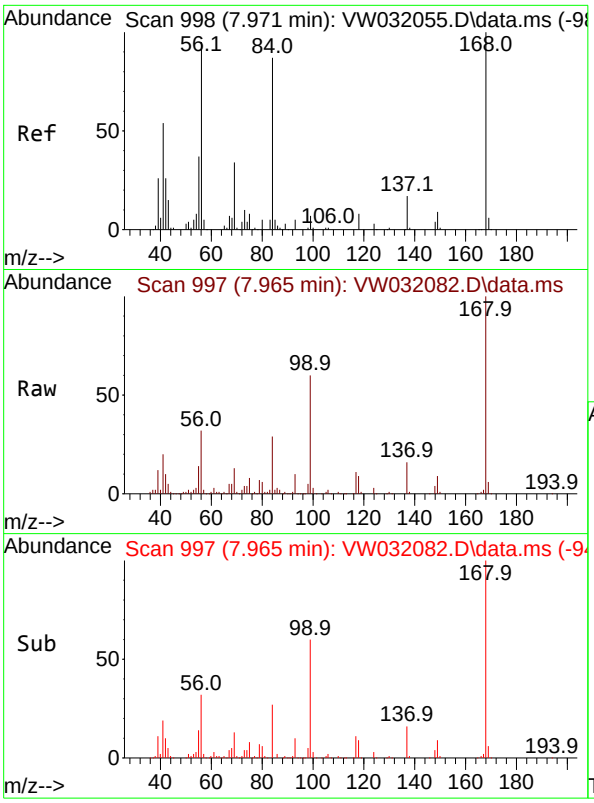


#30
Chloroform
Concen: 19.583 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 83 Resp: 102932

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.0	76.4

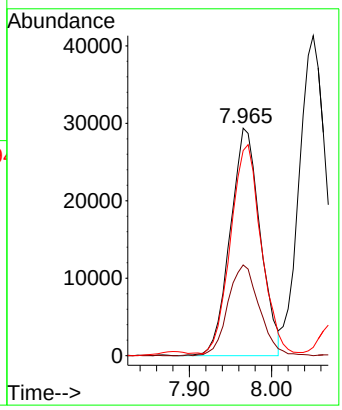




#31
Cyclohexane
Concen: 17.286 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 56 Resp: 7430

Ion	Ratio	Lower	Upper
56	100		
69	39.5	28.6	42.8
84	88.3	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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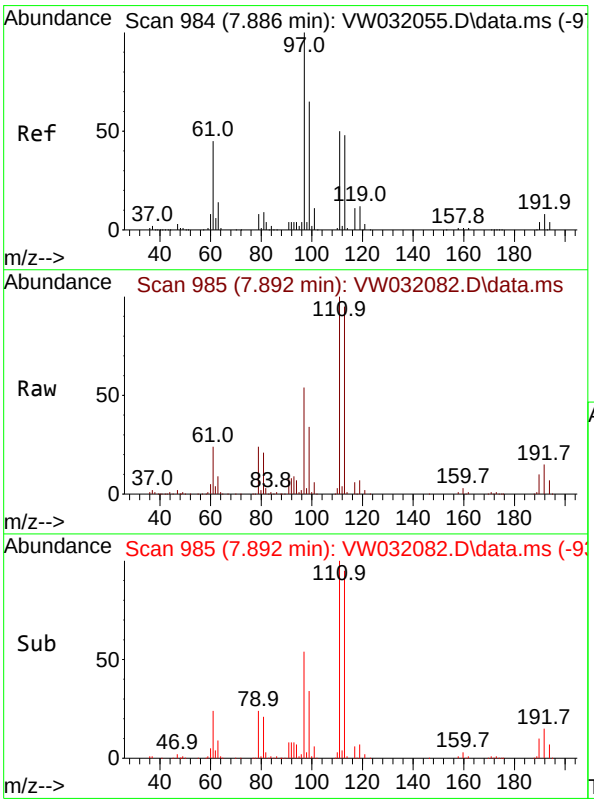
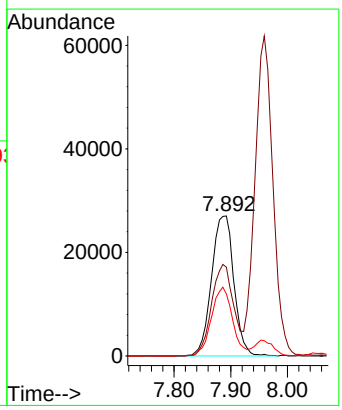
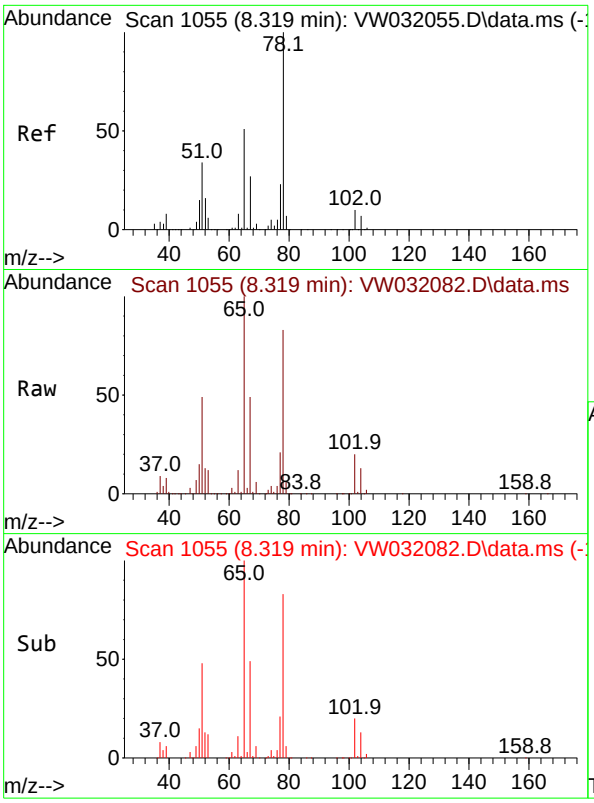


#32
1,1,1-Trichloroethane
Concen: 19.399 ug/l
RT: 7.892 min Scan# 985
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 97 Resp: 74063

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	46.3	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 49.159 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 65 Resp: 14827

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

Instrument :
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ClientSampleId :
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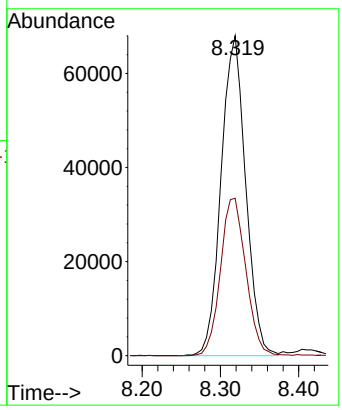
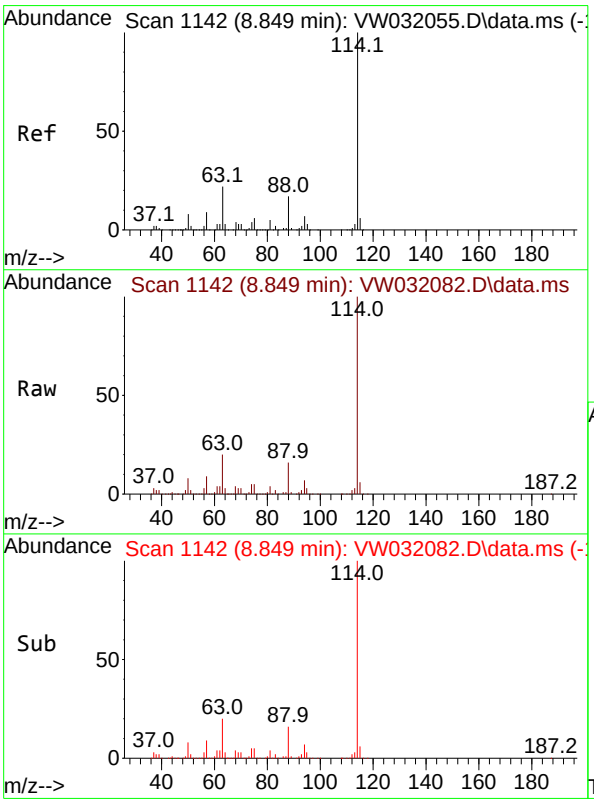
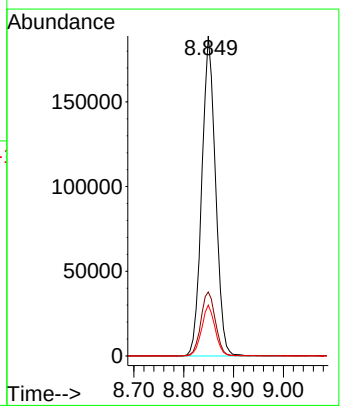


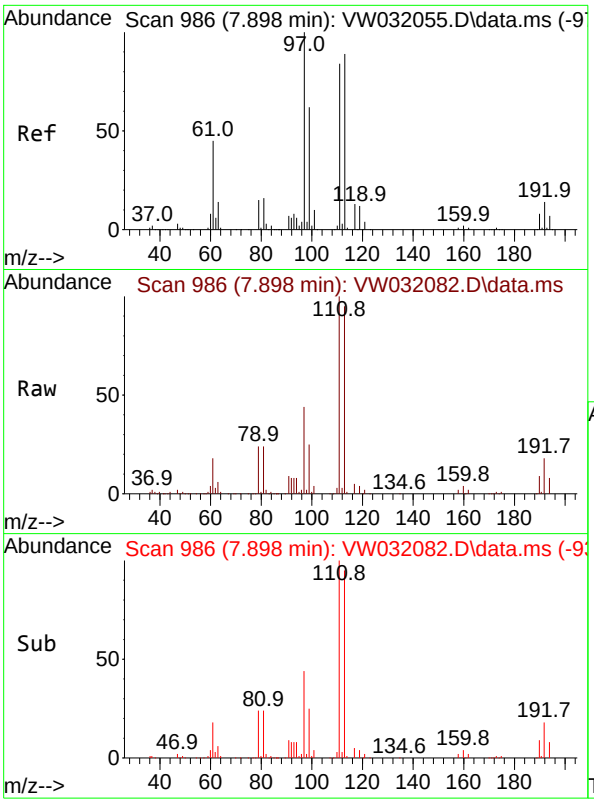


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:114 Resp: 361028

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	43.0
88	15.9	0.0	33.8





#35
Dibromofluoromethane
Concen: 53.409 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:113 Resp: 12457

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.1	120.1
192	17.4	13.1	19.7

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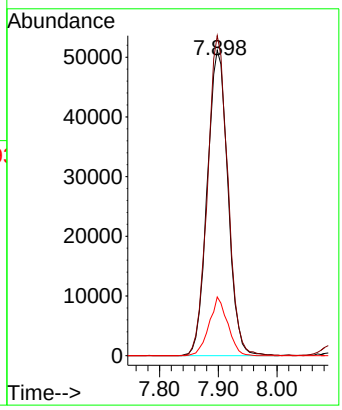
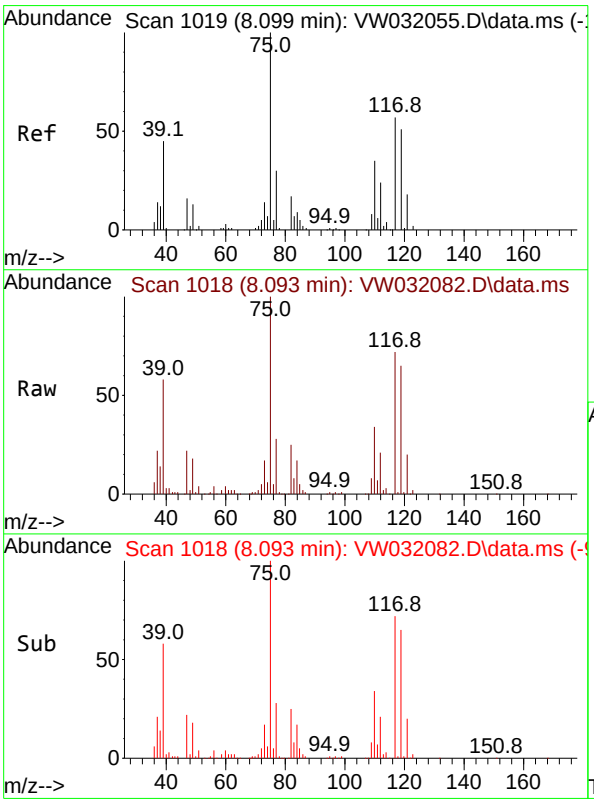
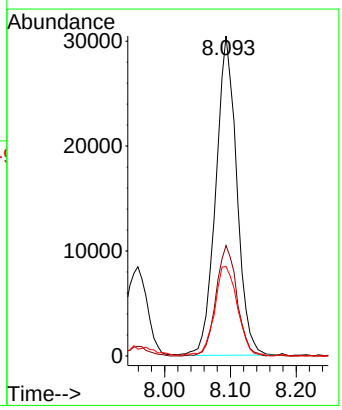


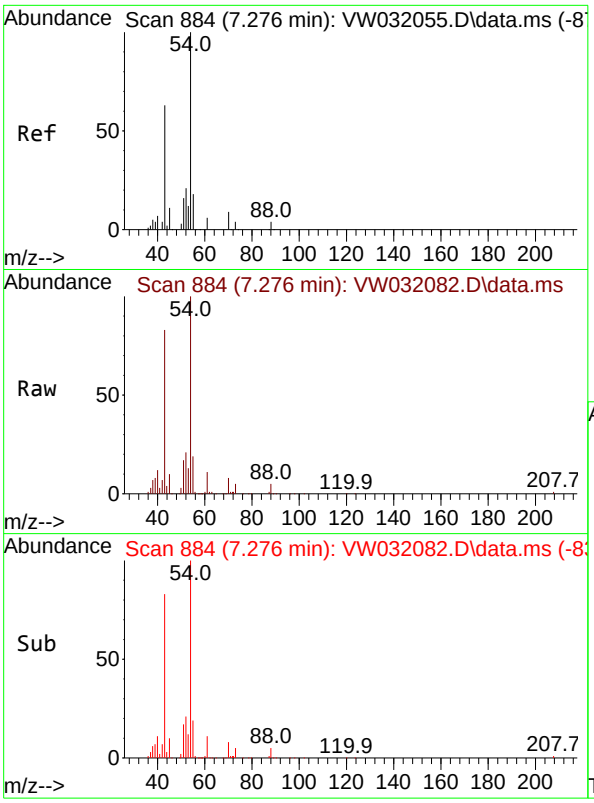


#36
1,1-Dichloropropene
Concen: 20.499 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 67400

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.4	52.2
77	30.7	24.7	37.1

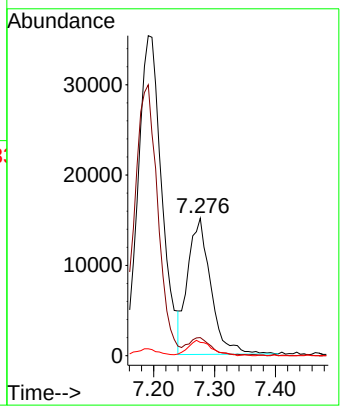




#37
Ethyl Acetate
Concen: 20.438 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 3957

Ion	Ratio	Lower	Upper
43	100		
61	12.6	11.8	17.6
70	11.3	9.4	14.0



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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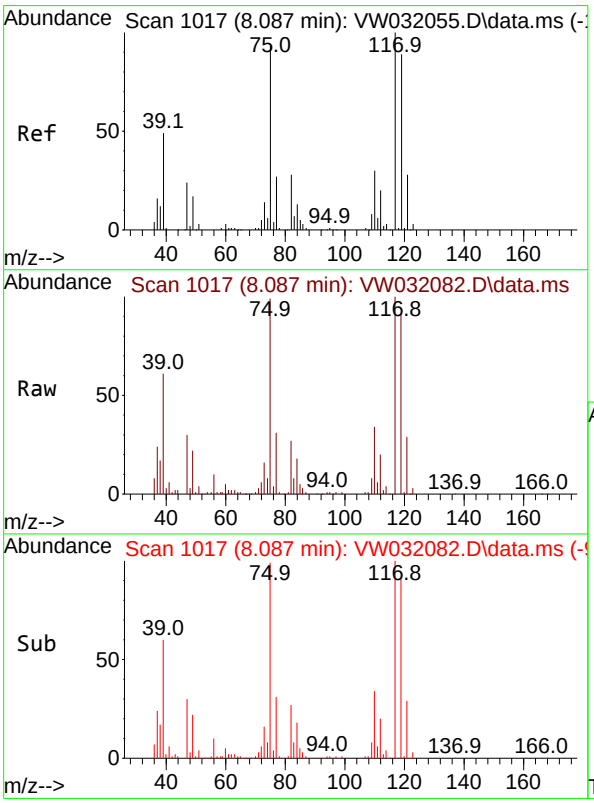
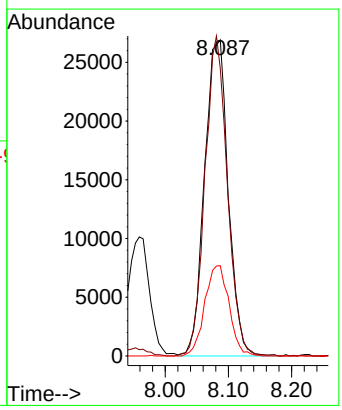
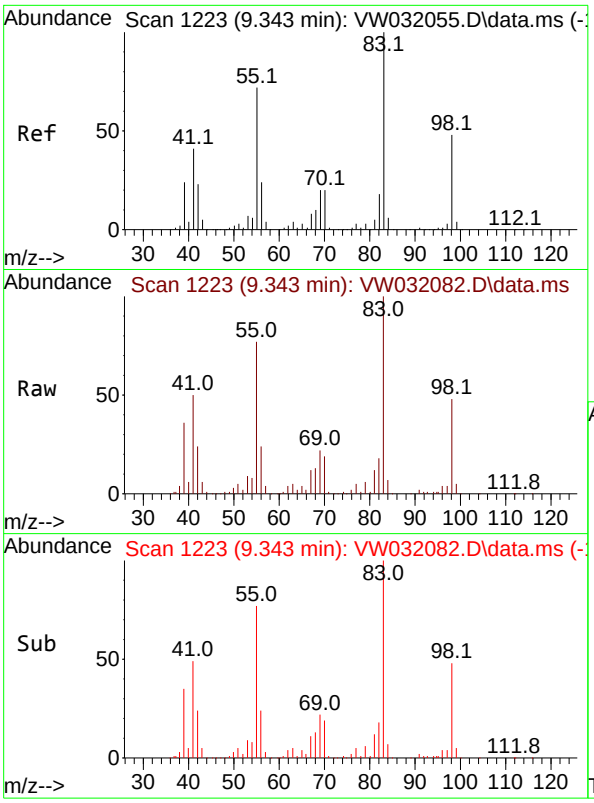


#38
Carbon Tetrachloride
Concen: 22.097 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:117 Resp: 70115

Ion	Ratio	Lower	Upper
117	100		
119	91.0	71.4	107.2
121	28.5	22.3	33.5

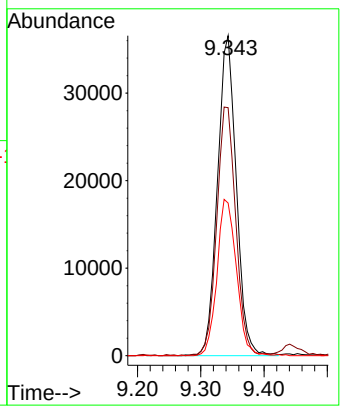




#39
Methylcyclohexane
Concen: 18.806 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 83 Resp: 7536

Ion	Ratio	Lower	Upper
83	100		
55	77.5	57.9	86.9
98	47.7	38.3	57.5



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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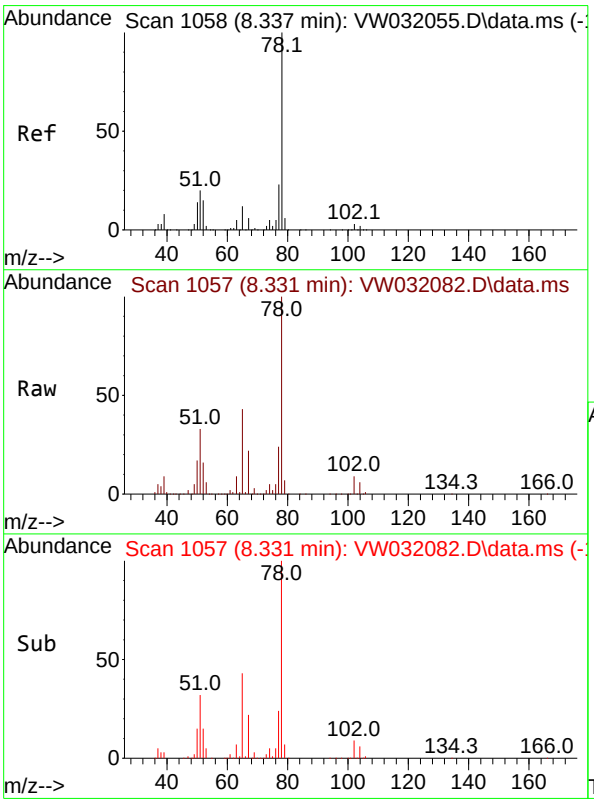
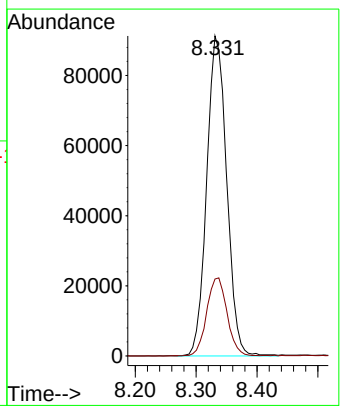
Supervised By :Mahesh Dadoda 08/19/2025

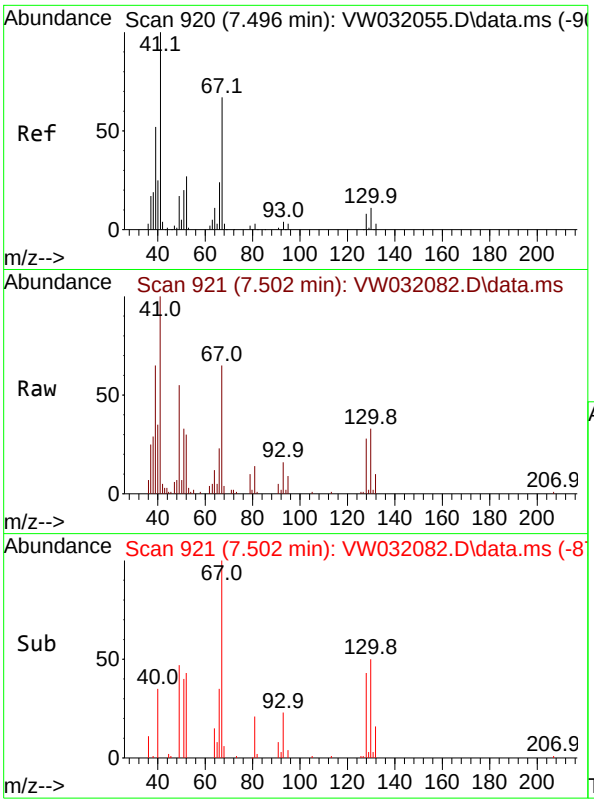


#40
Benzene
Concen: 20.384 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 78 Resp: 208337

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6

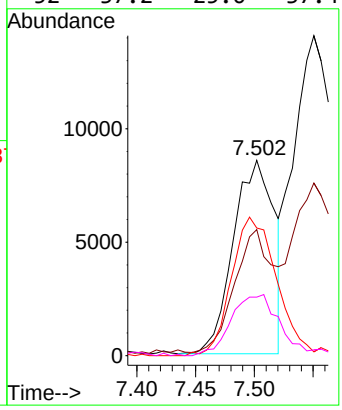




#41
Methacrylonitrile
Concen: 18.749 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 41 Resp: 2059

Ion	Ratio	Lower	Upper
41	100		
39	59.7	42.6	63.8
67	80.9	61.0	91.4
52	37.2	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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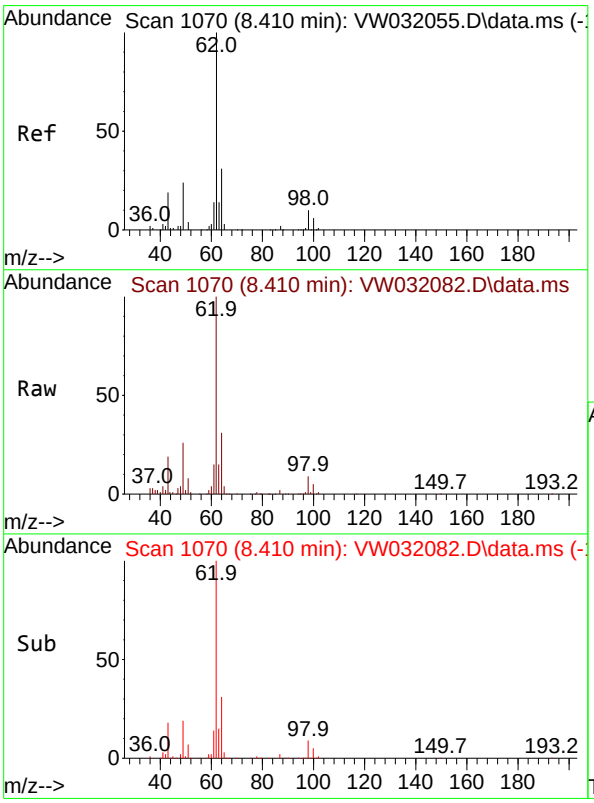
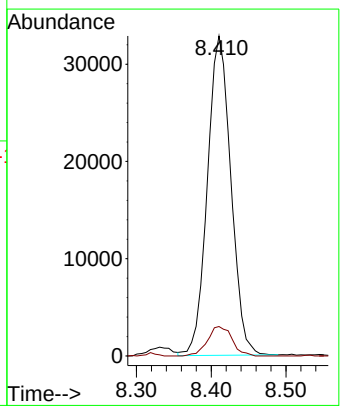
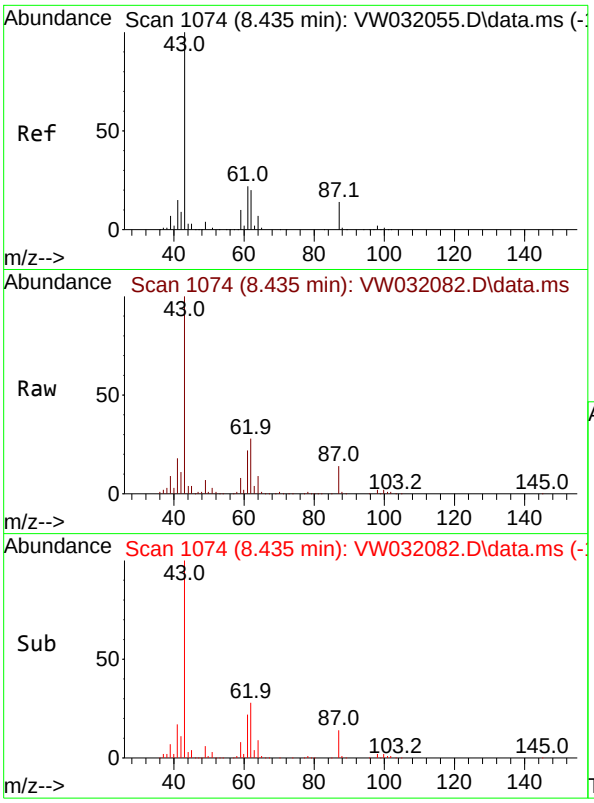


#42
1,2-Dichloroethane
Concen: 21.951 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 62 Resp: 71790

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8

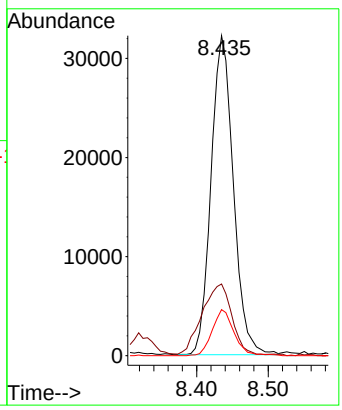




#43
Isopropyl Acetate
Concen: 19.605 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 6984

Ion	Ratio	Lower	Upper
43	100		
61	29.4	23.8	35.8
87	14.1	11.7	17.5



Instrument :
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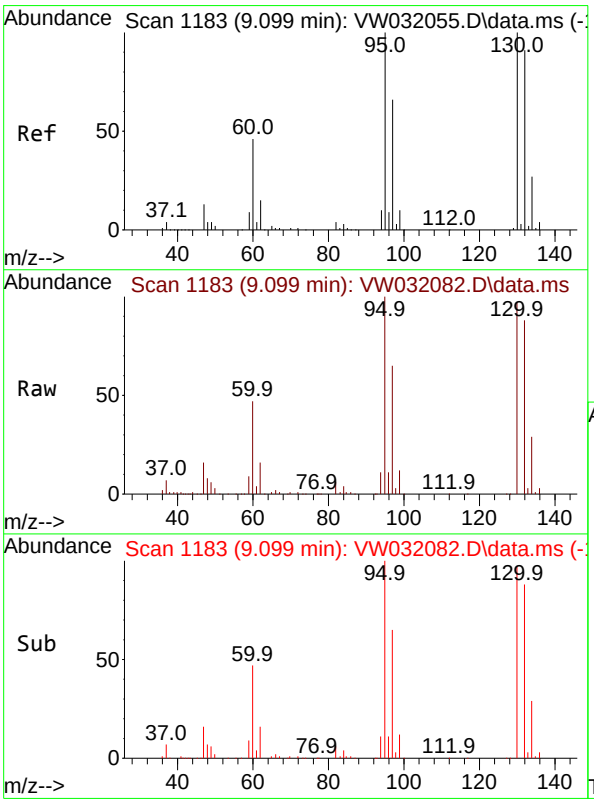
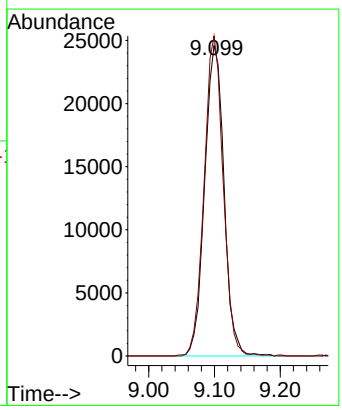
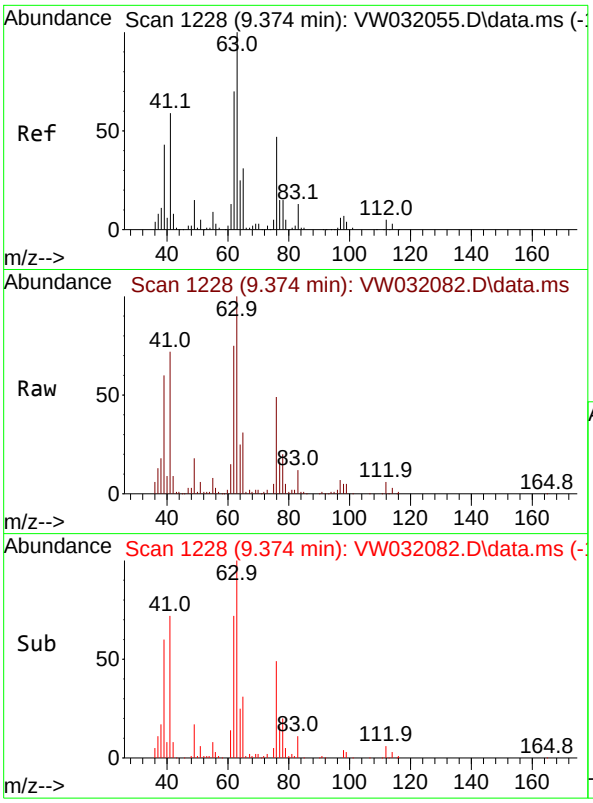


#44
Trichloroethene
Concen: 20.648 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:130 Resp: 50257

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	200.6

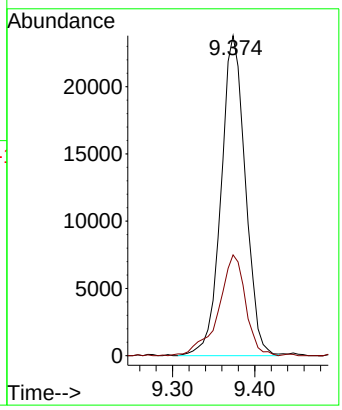




#45
1,2-Dichloropropane
Concen: 19.794 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 63 Resp: 4887

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.6	36.8



Instrument :
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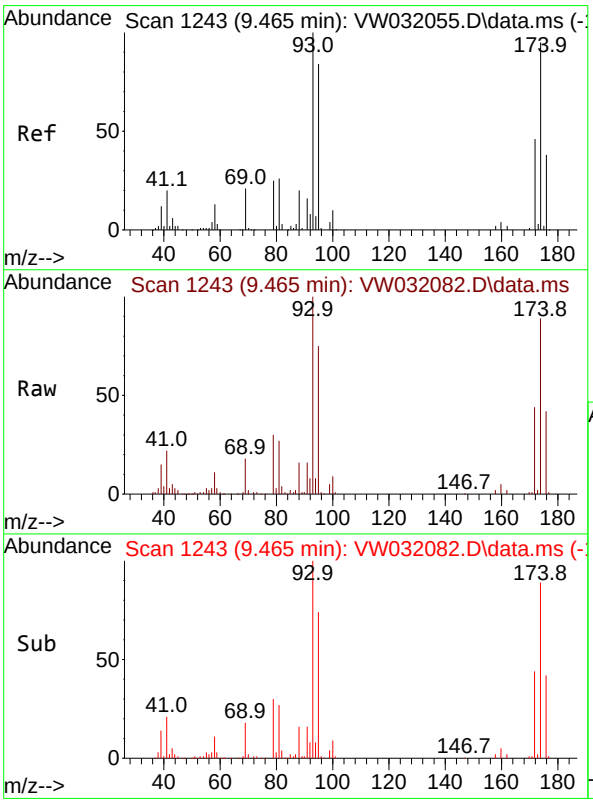
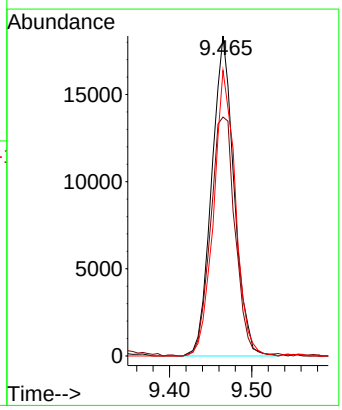
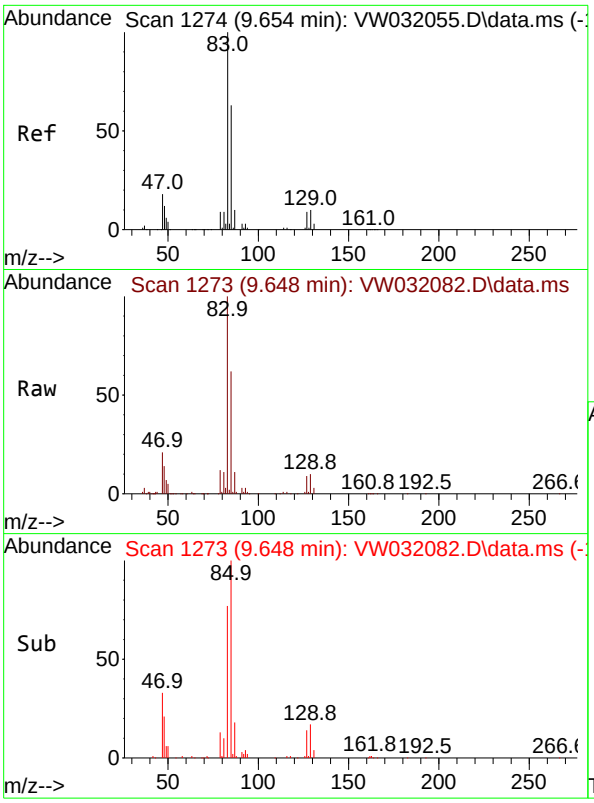


#46
Dibromomethane
Concen: 21.800 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 93 Resp: 34741

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.3	97.9
174	87.0	68.6	102.8

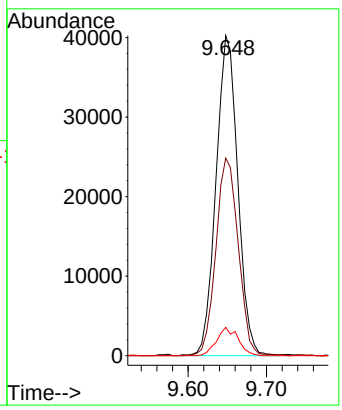




#47
Bromodichloromethane
Concen: 21.199 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 83 Resp: 7784

Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8
127	8.8	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
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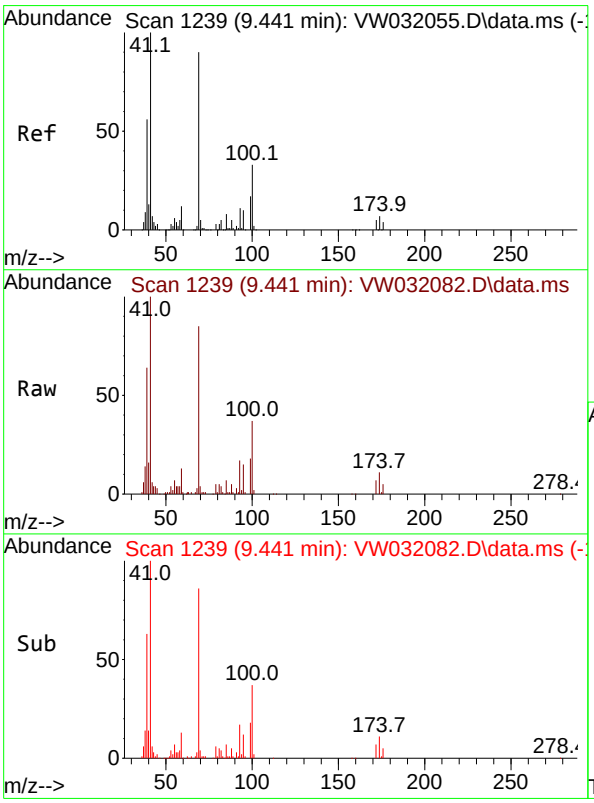
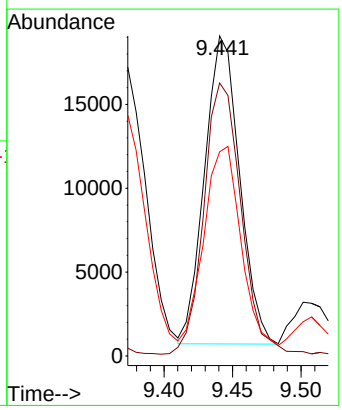
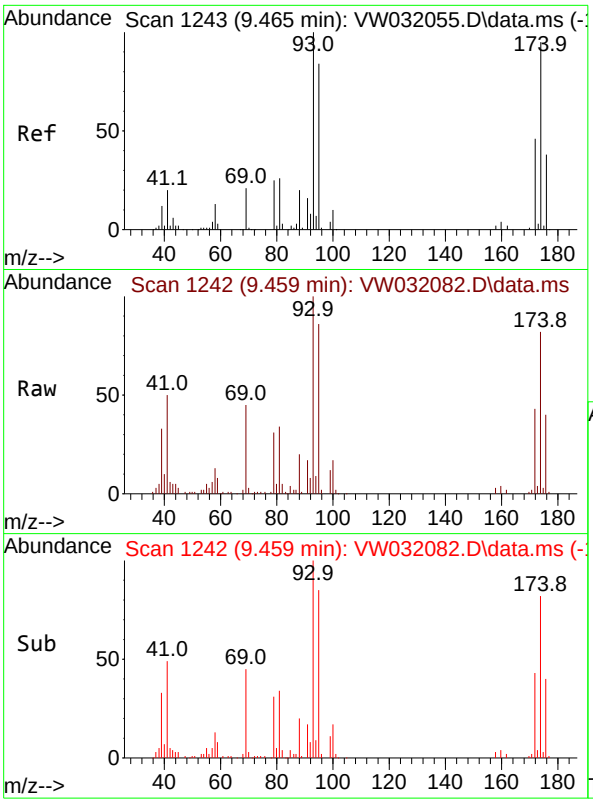


#48
Methyl methacrylate
Concen: 18.991 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 41 Resp: 32666

Ion	Ratio	Lower	Upper
41	100		
69	94.2	73.0	109.6
39	67.6	45.0	67.4#





#49
1,4-Dioxane
Concen: 383.262 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 88 Resp: 789

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	84.4	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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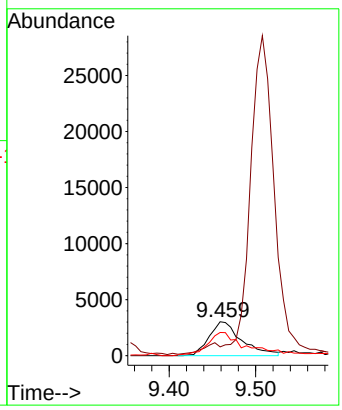
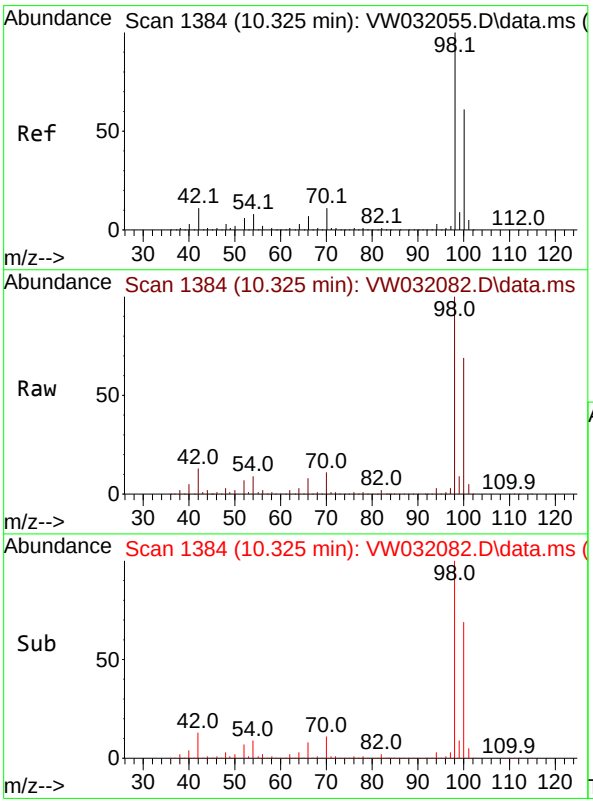
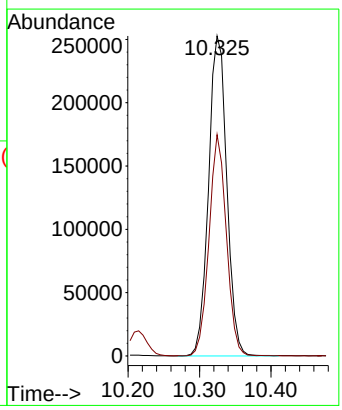


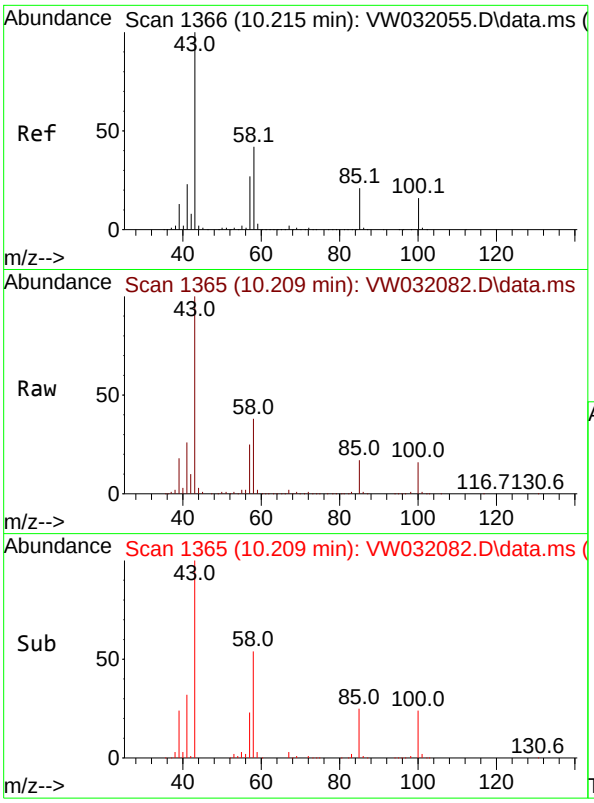


#50
Toluene-d8
Concen: 51.843 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 98 Resp: 447242

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.1	76.7

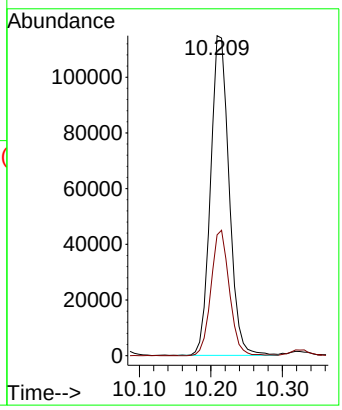




#51
4-Methyl-2-Pentanone
Concen: 103.043 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 20721

Ion	Ratio	Lower	Upper
43	100		
58	38.8	33.1	49.7



Instrument :
MSVOA_W
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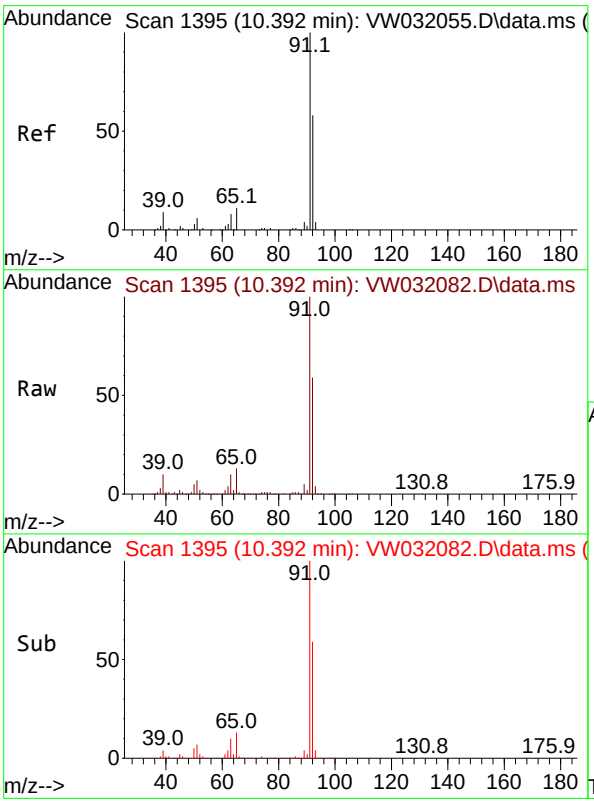
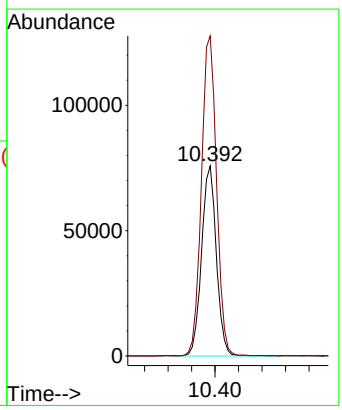
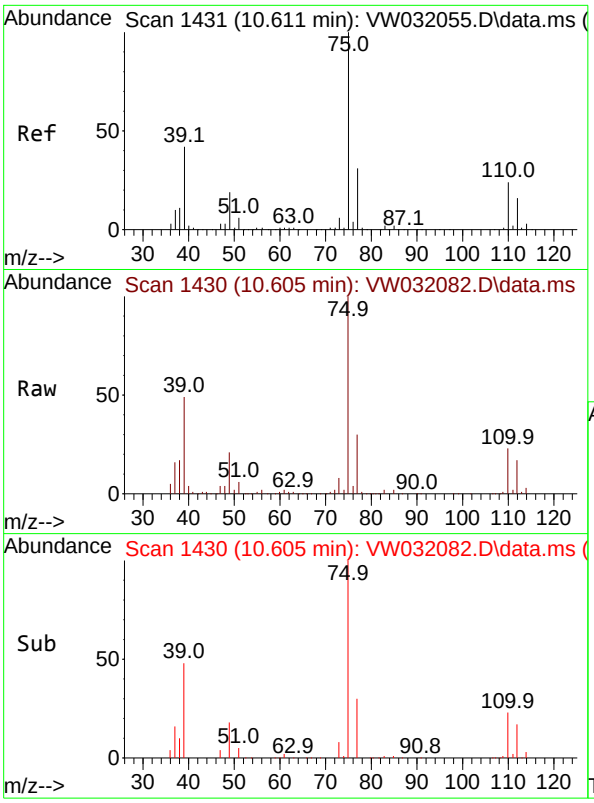


#52
Toluene
Concen: 20.554 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 92 Resp: 132319

Ion	Ratio	Lower	Upper
92	100		
91	172.3	136.3	204.5

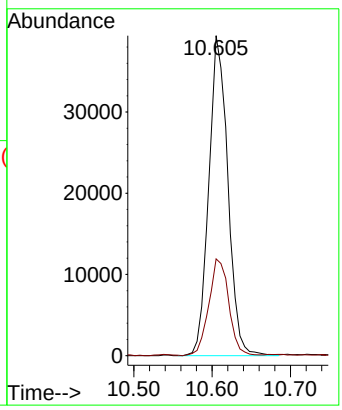




#53
t-1,3-Dichloropropene
Concen: 19.346 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 6655

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.0	37.6



Instrument :
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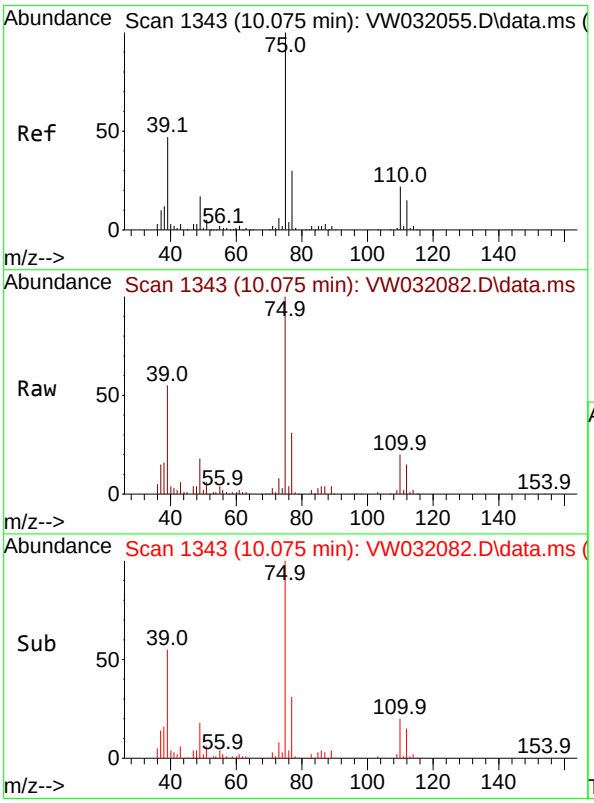
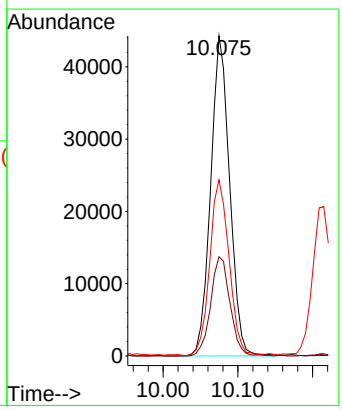
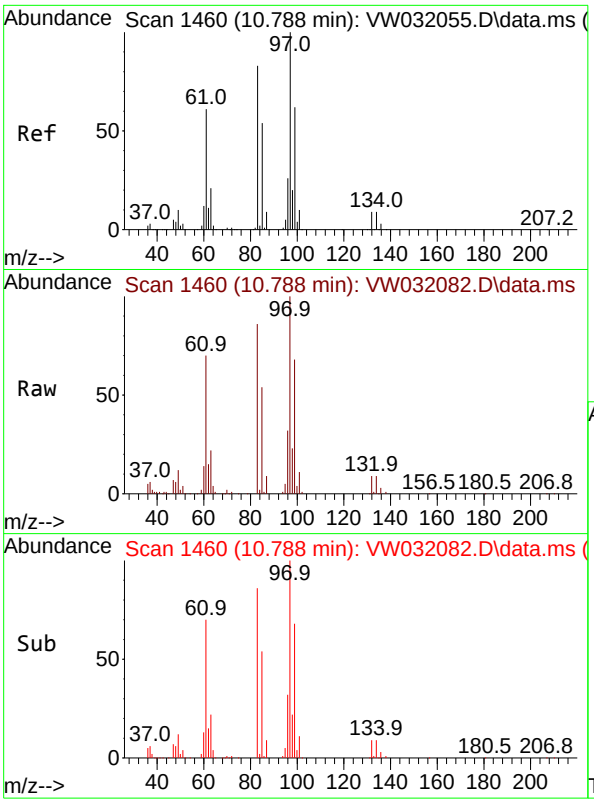


#54
cis-1,3-Dichloropropene
Concen: 19.970 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 77941

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.0	36.0
39	54.7	37.8	56.8

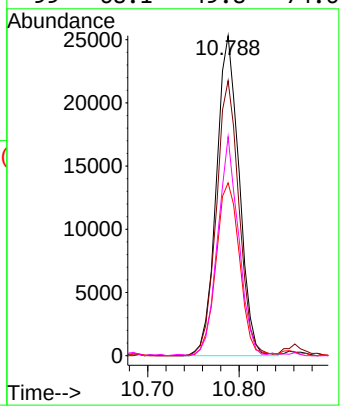




#55
1,1,2-Trichloroethane
Concen: 20.705 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 97 Resp: 4384

Ion	Ratio	Lower	Upper
97	100		
83	85.9	66.4	99.6
85	54.0	43.1	64.7
99	68.1	49.8	74.6



Instrument :
MSVOA_W
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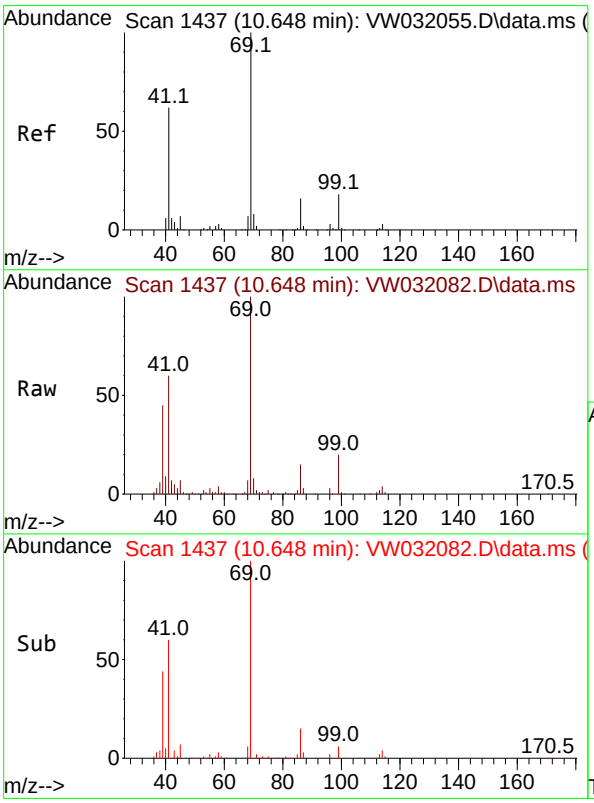
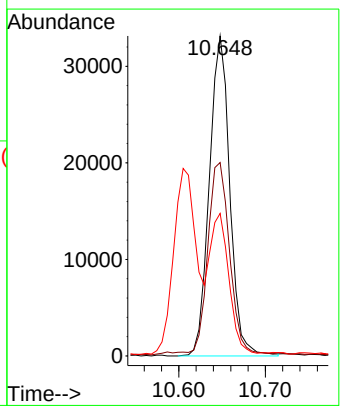
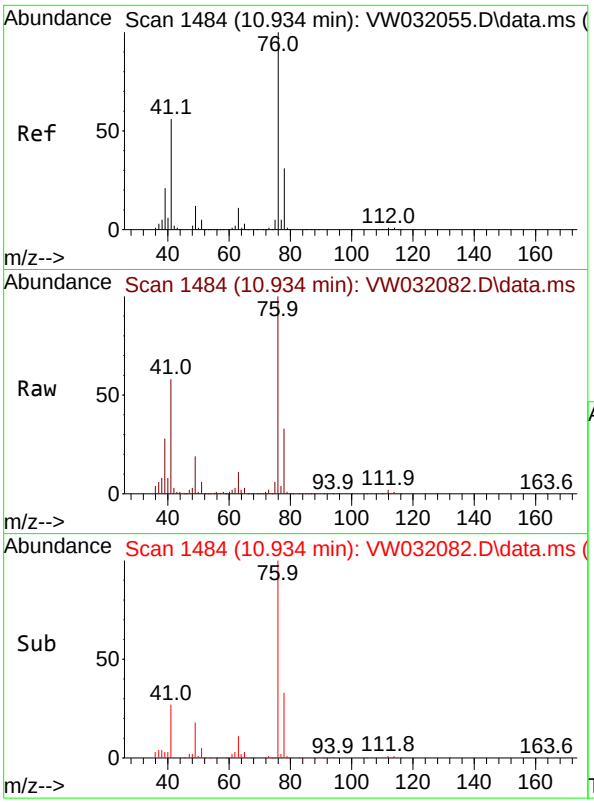


#56
Ethyl methacrylate
Concen: 19.216 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 69 Resp: 54454

Ion	Ratio	Lower	Upper
69	100		
41	64.6	51.2	76.8
39	40.4	25.4	38.0#

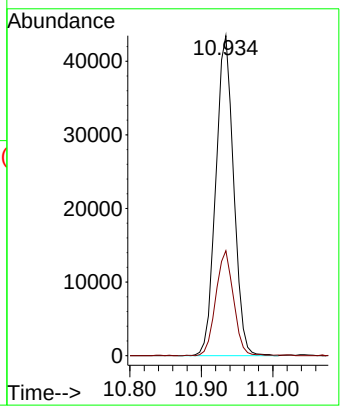




#57
1,3-Dichloropropane
Concen: 20.384 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 76 Resp: 7524

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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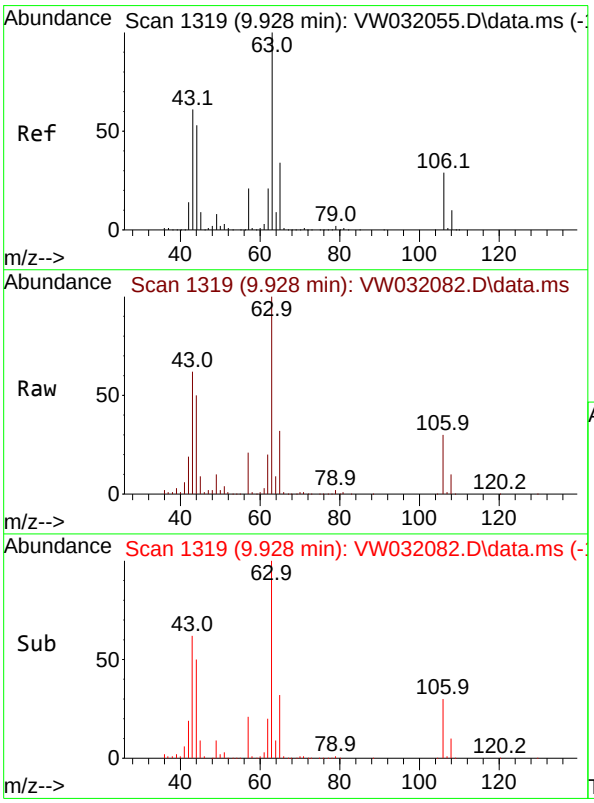
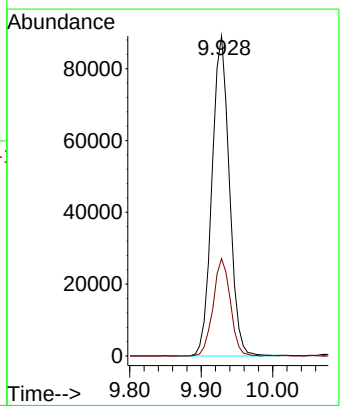
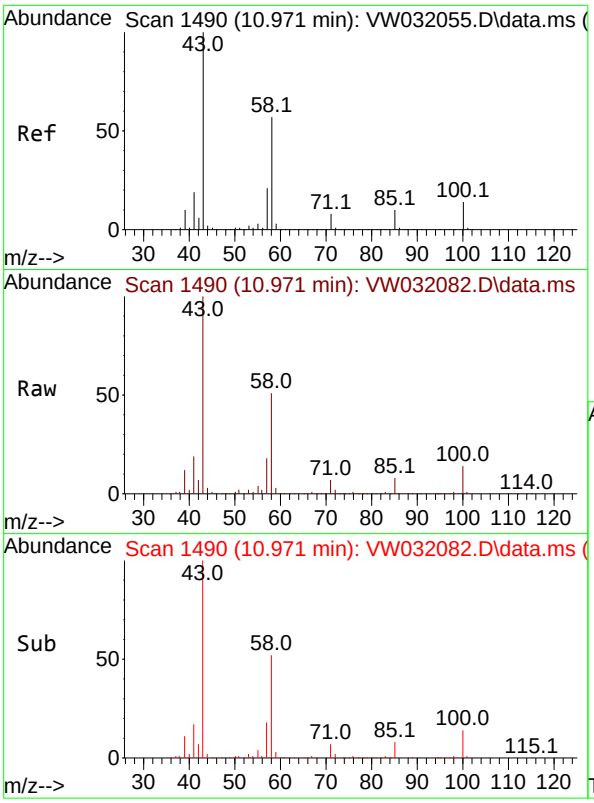


#58
2-Chloroethyl Vinyl ether
Concen: 95.881 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 63 Resp: 150289

Ion	Ratio	Lower	Upper
63	100		
106	30.1	23.5	35.3





#59
2-Hexanone
Concen: 104.476 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 14550

Ion	Ratio	Lower	Upper
43	100		
58	52.4	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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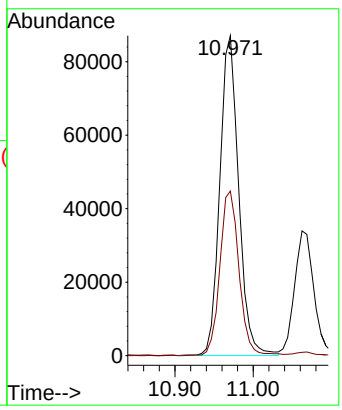
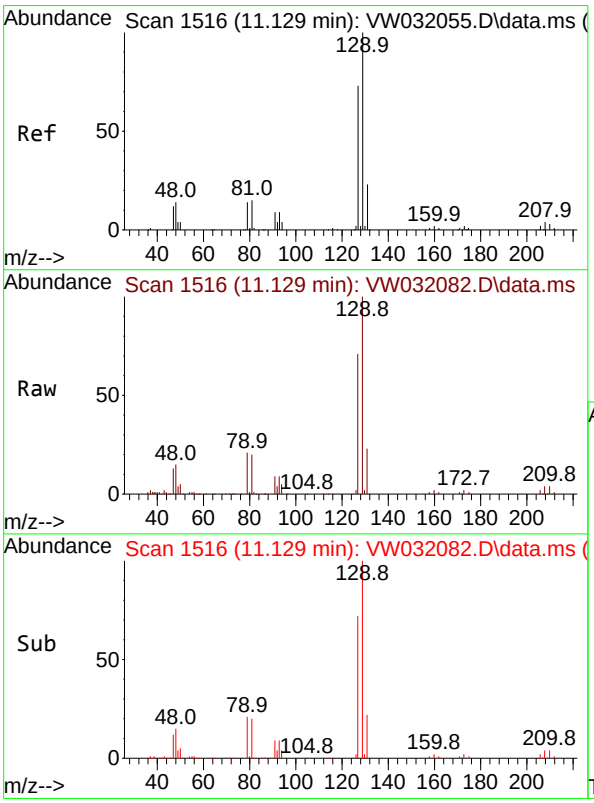
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

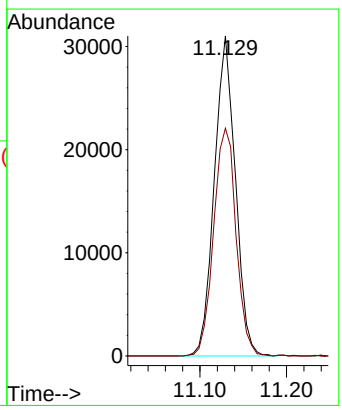


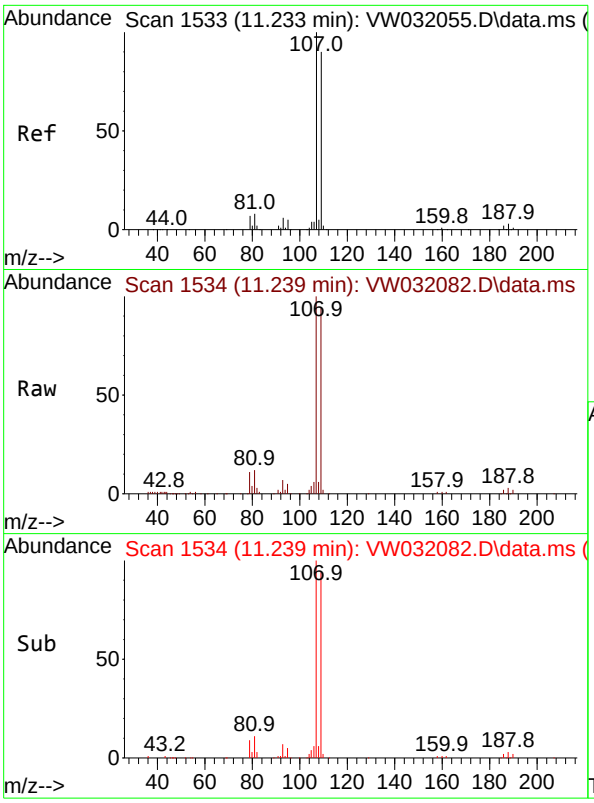


#60
Dibromochloromethane
Concen: 21.668 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:129 Resp: 52415

Ion	Ratio	Lower	Upper
129	100		
127	75.7	39.0	116.9





#61
1,2-Dibromoethane
Concen: 20.995 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:107 Resp: 4320

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.2	111.4

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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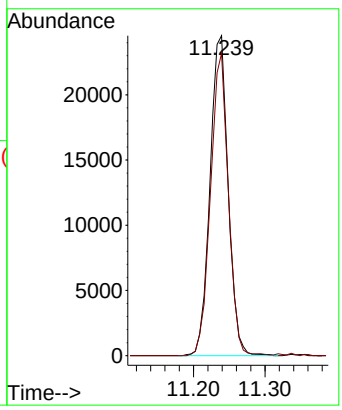
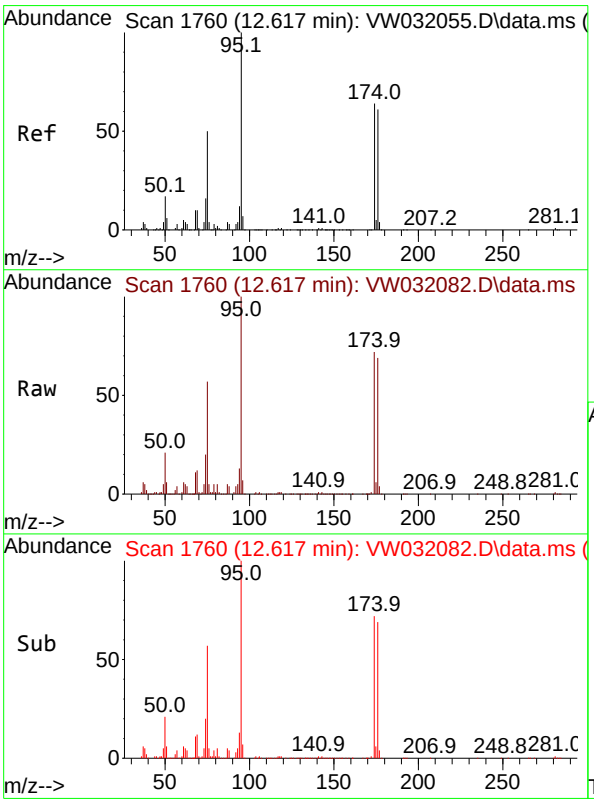
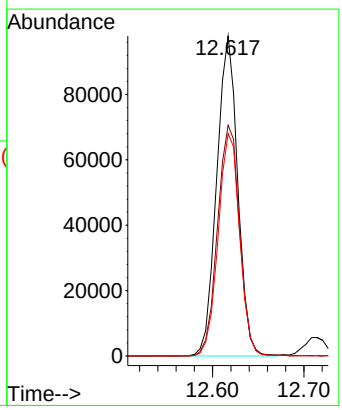


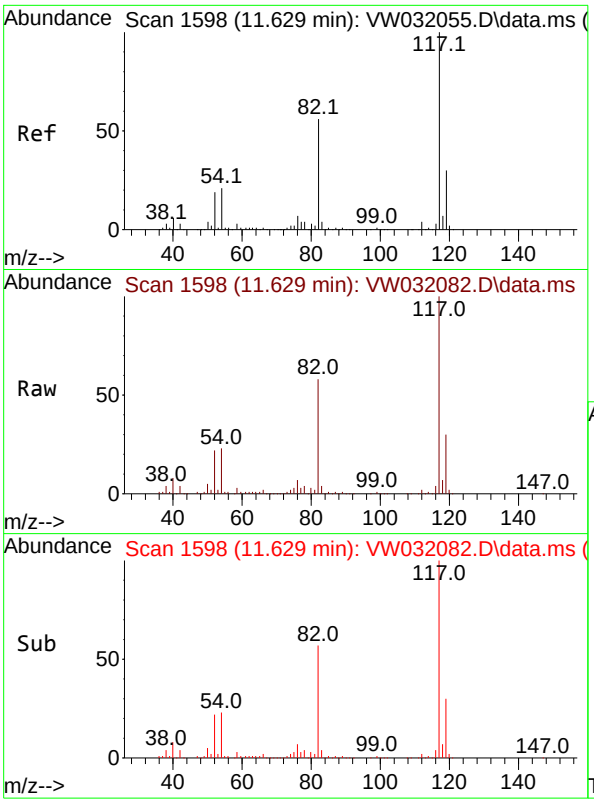


#62
4-Bromofluorobenzene
Concen: 49.195 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 95 Resp: 156394

Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	129.0
176	71.0	0.0	124.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:117 Resp: 33531

Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.0	67.4
119	29.7	24.2	36.4

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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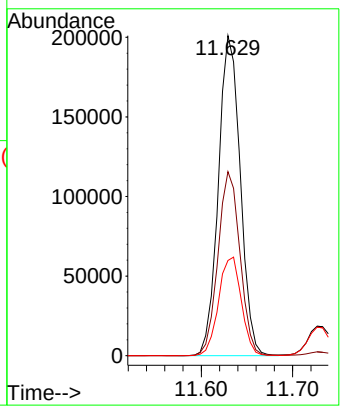
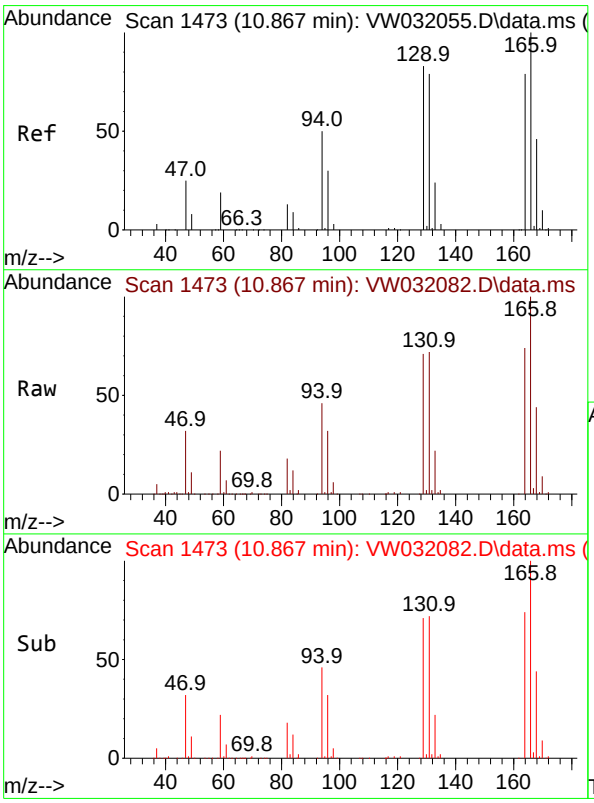
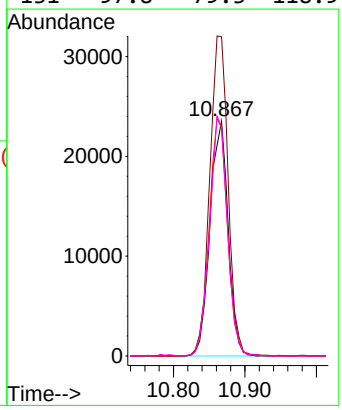


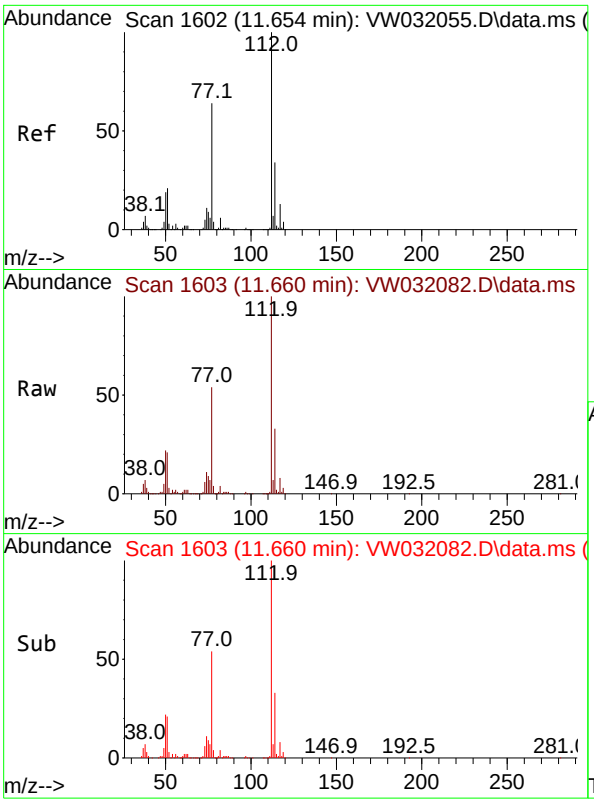


#64
Tetrachloroethene
Concen: 21.451 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:164 Resp: 41545

Ion	Ratio	Lower	Upper
164	100		
166	135.9	100.9	151.3
129	96.9	83.6	125.4
131	97.8	79.3	118.9

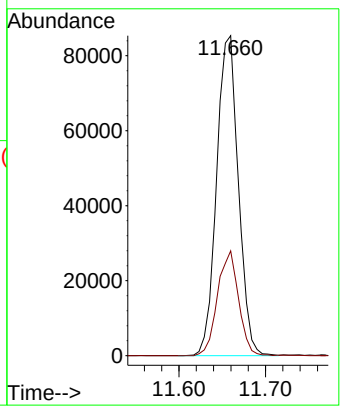




#65
Chlorobenzene
Concen: 20.395 ug/l
RT: 11.660 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:112 Resp: 14885(

Ion	Ratio	Lower	Upper
112	100		
114	32.8	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
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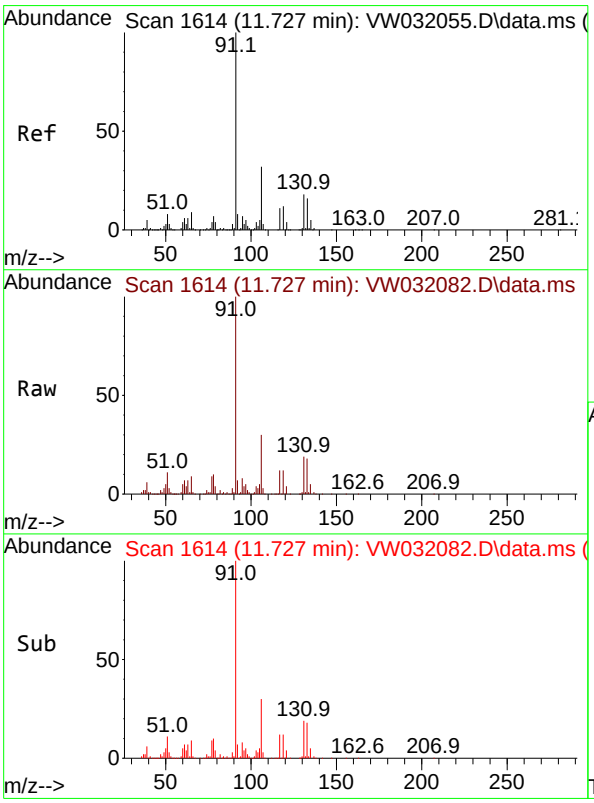
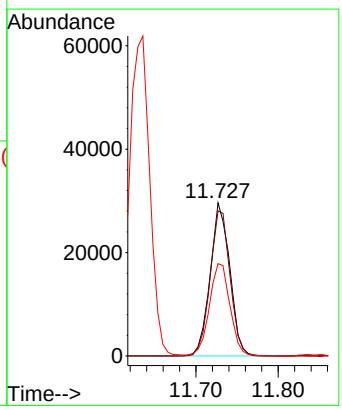
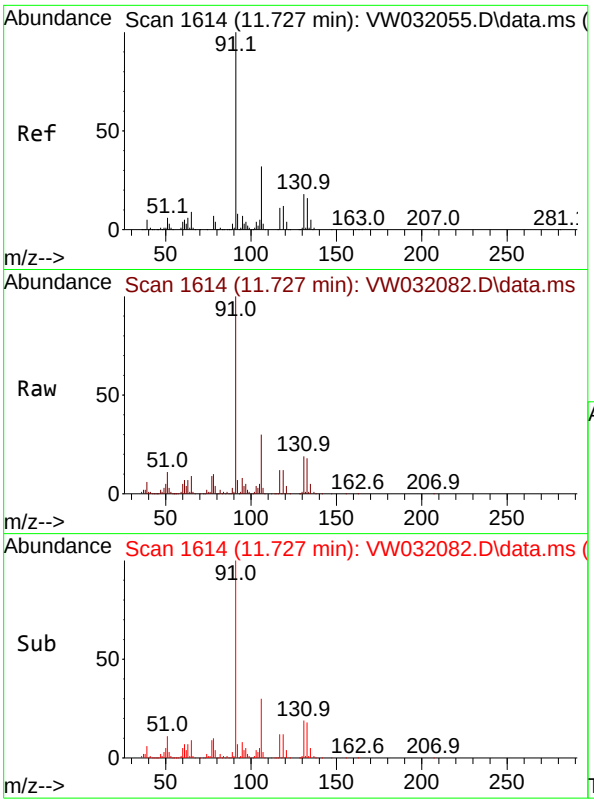


#66
1,1,1,2-Tetrachloroethane
Concen: 21.525 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:131 Resp: 49016

Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.3	142.0
119	63.4	34.5	103.5

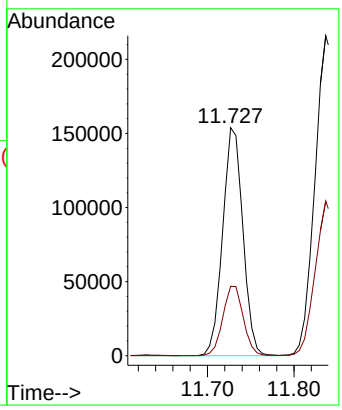




#67
Ethyl Benzene
Concen: 20.179 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 24947

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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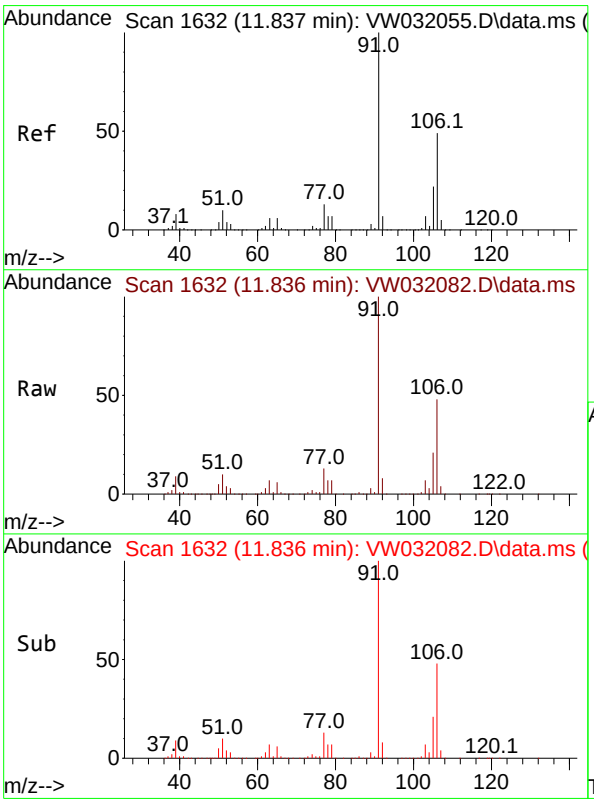
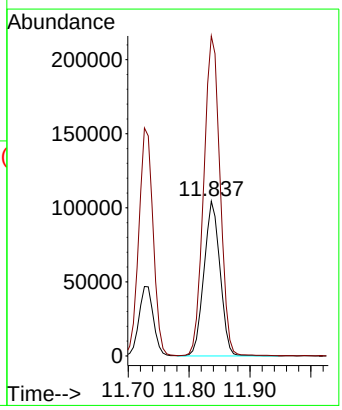
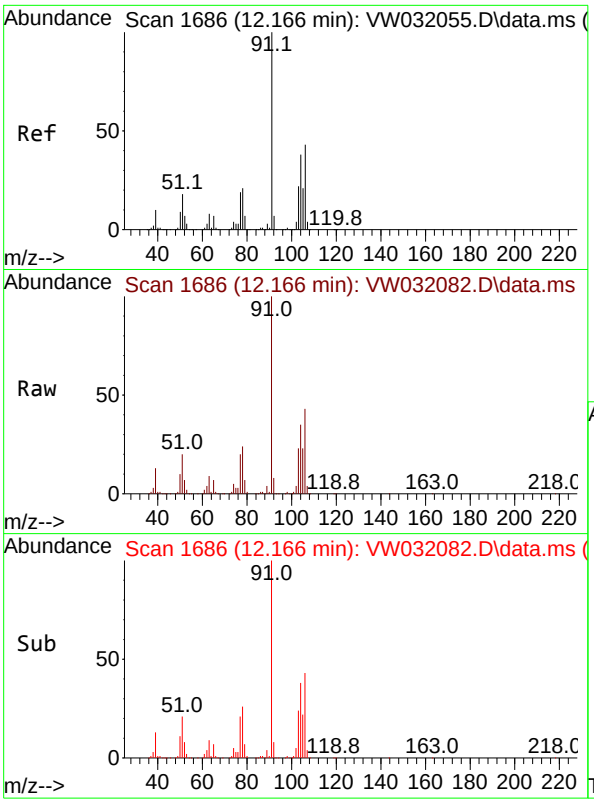


#68
m/p-Xylenes
Concen: 40.121 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:106 Resp: 191394

Ion	Ratio	Lower	Upper
106	100		
91	209.1	162.2	243.2





#69
o-Xylene
Concen: 19.829 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:106 Resp: 8742

Ion	Ratio	Lower	Upper
106	100		
91	224.3	110.8	332.3

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations
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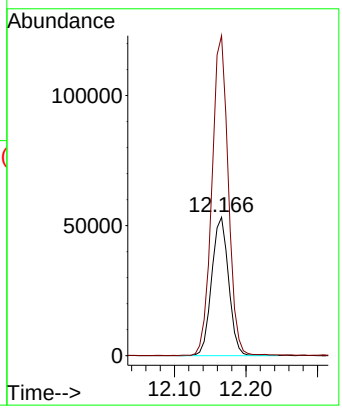
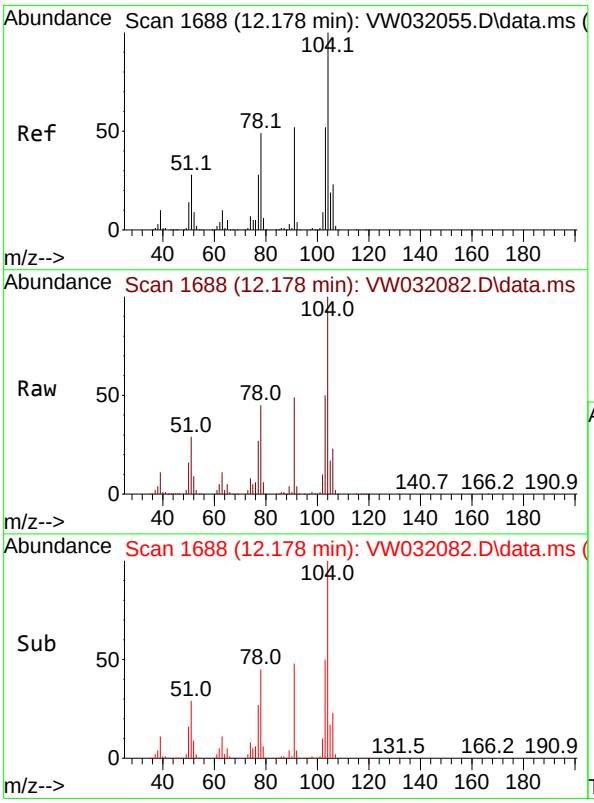
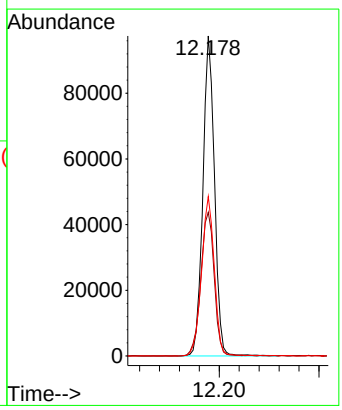


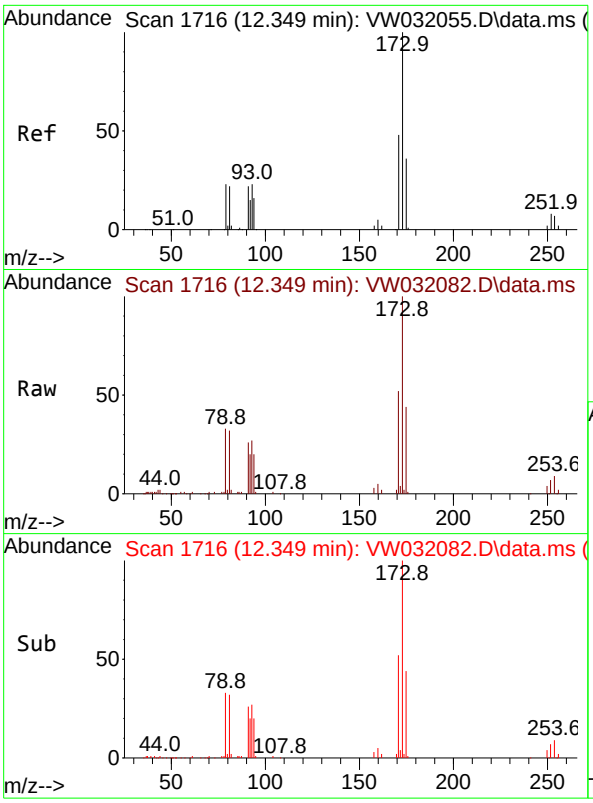


#70
Styrene
Concen: 20.133 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:104 Resp: 157674

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.2	61.8
103	54.6	43.8	65.8

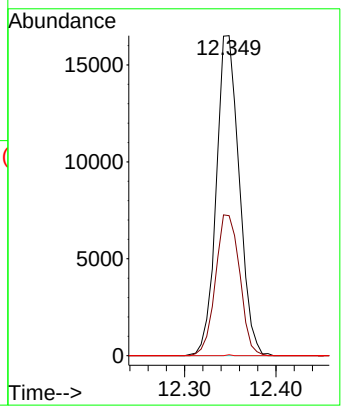




#71
Bromoform
Concen: 22.114 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:173 Resp: 2880

Ion	Ratio	Lower	Upper
173	100		
175	46.3	22.9	68.7
254	0.1	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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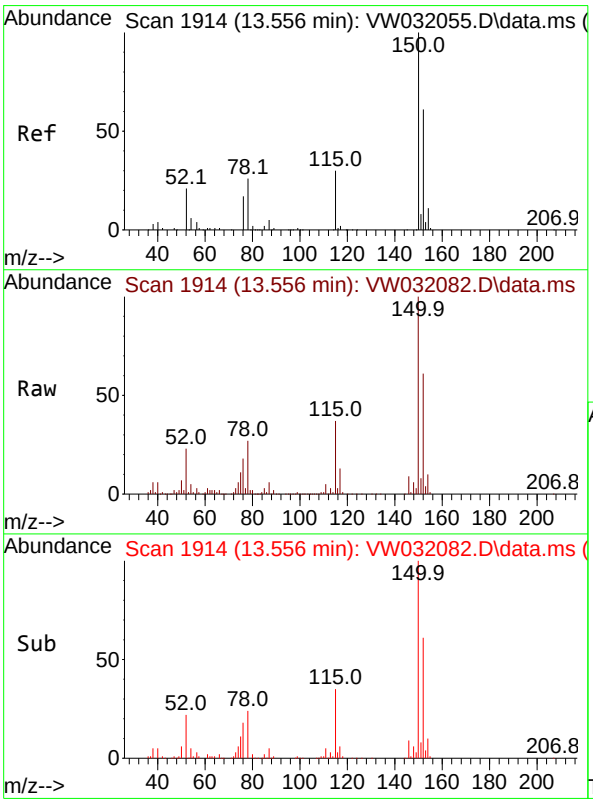
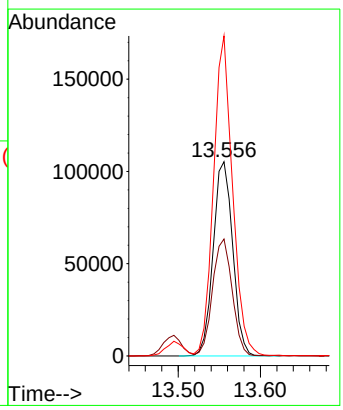
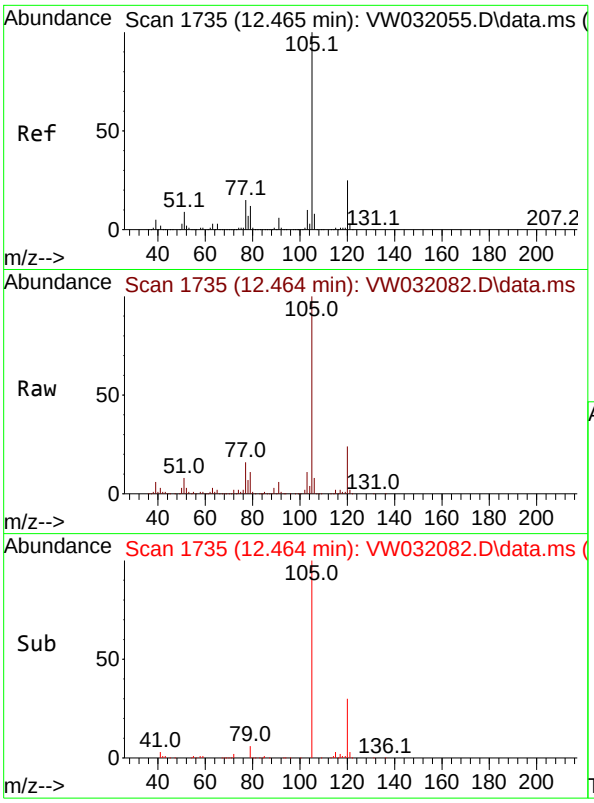


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:152 Resp: 173541

Ion	Ratio	Lower	Upper
152	100		
115	60.4	32.6	97.8
150	161.1	0.0	359.4





#73
Isopropylbenzene
Concen: 19.298 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:105 Resp: 23404

Ion	Ratio	Lower	Upper
105	100		
120	24.8	12.8	38.4

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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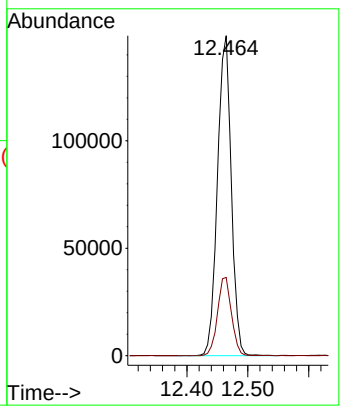
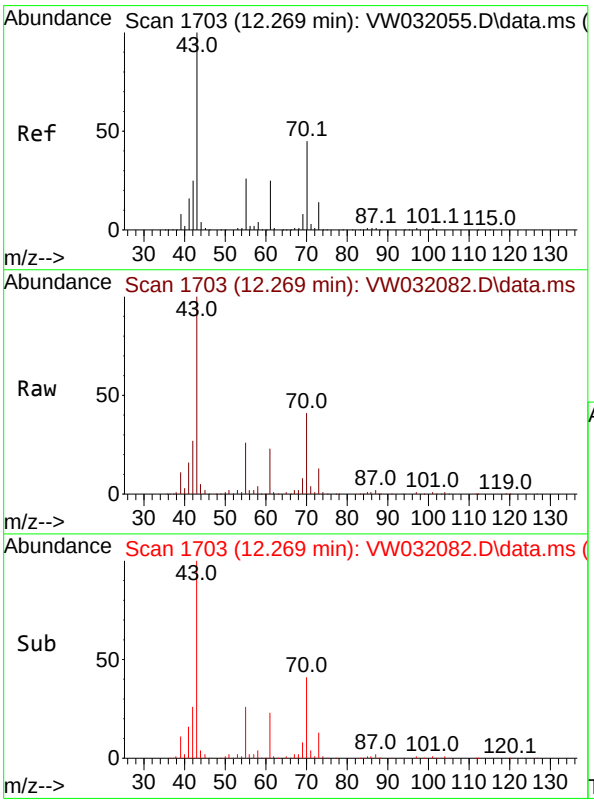
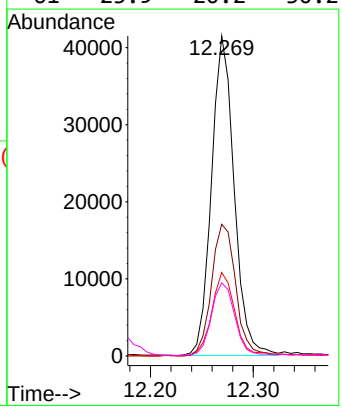


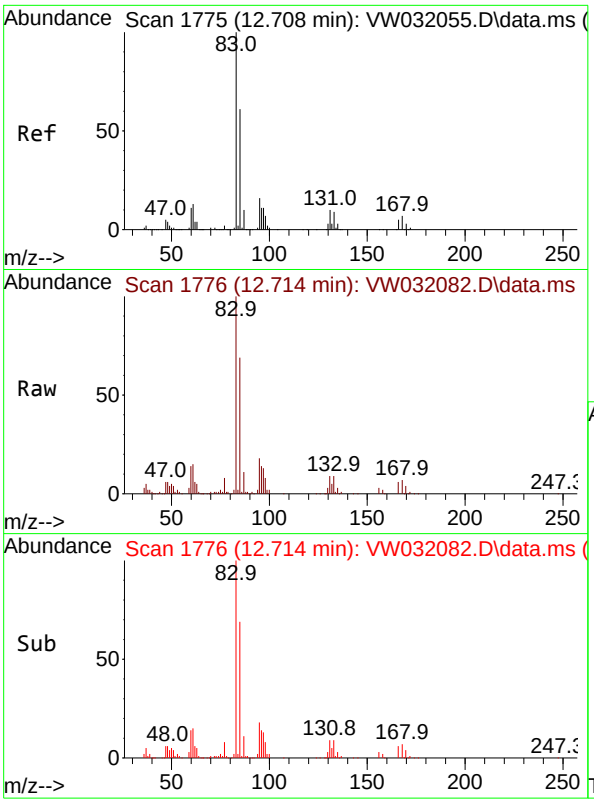


#74
N-amyl acetate
Concen: 18.263 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 63547

Ion	Ratio	Lower	Upper
43	100		
70	44.6	37.0	55.4
55	27.2	21.1	31.7
61	23.9	20.2	30.2





#75
1,1,2,2-Tetrachloroethane
Concen: 19.244 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 83 Resp: 5541

Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.1	15.4
85	64.0	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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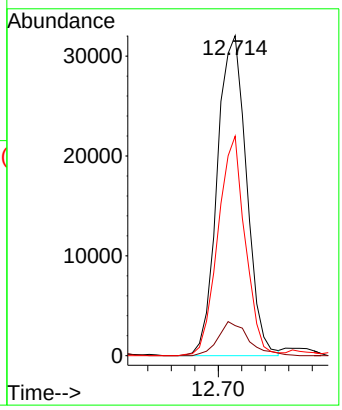
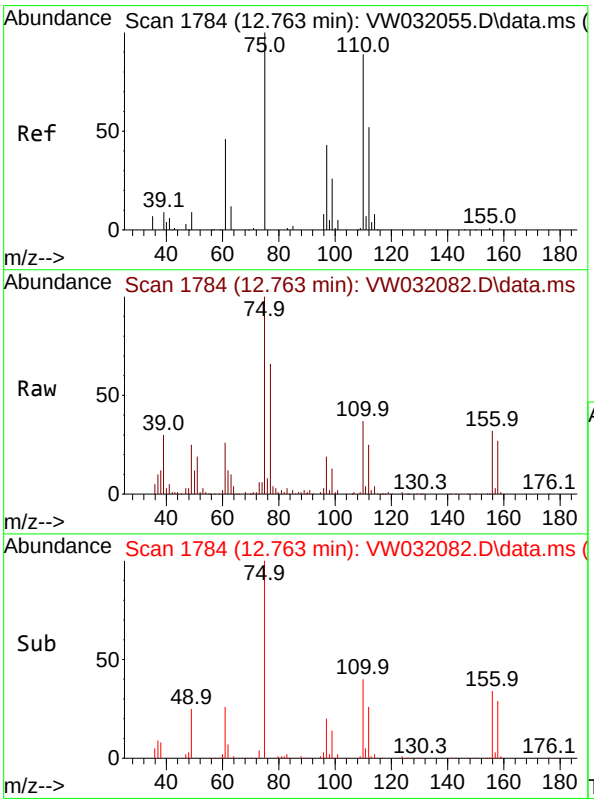
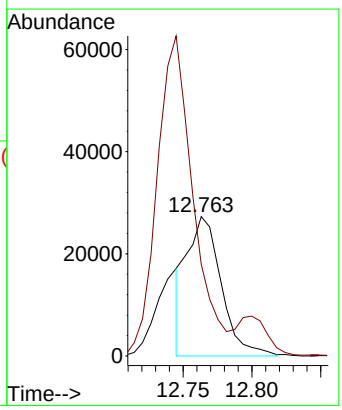


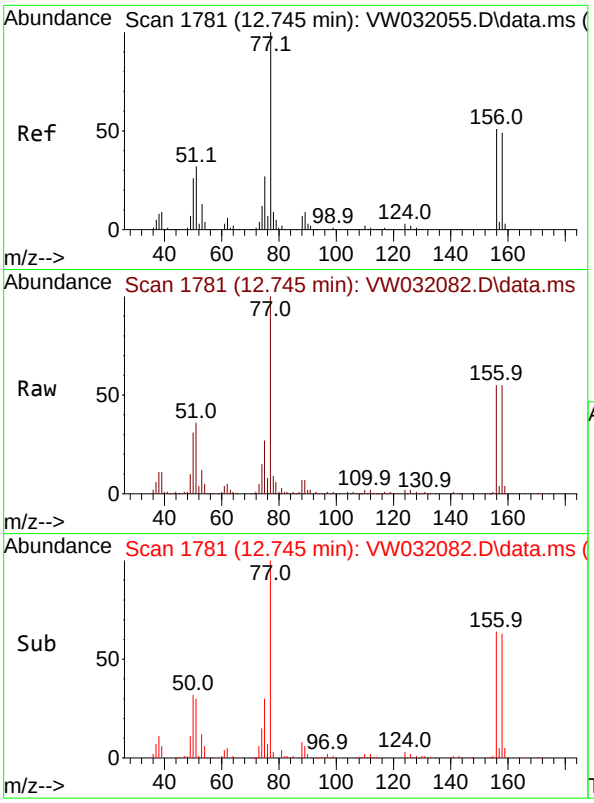


#76
1,2,3-Trichloropropane
Concen: 20.303 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 47821

Ion	Ratio	Lower	Upper
75	100		
77	238.0	123.5	370.5

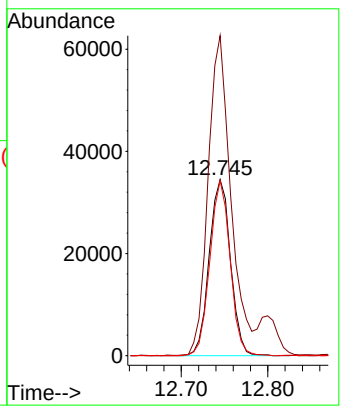




#77
Bromobenzene
Concen: 20.288 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:156 Resp: 5876

Ion	Ratio	Lower	Upper
156	100		
77	193.7	108.7	326.3
158	94.5	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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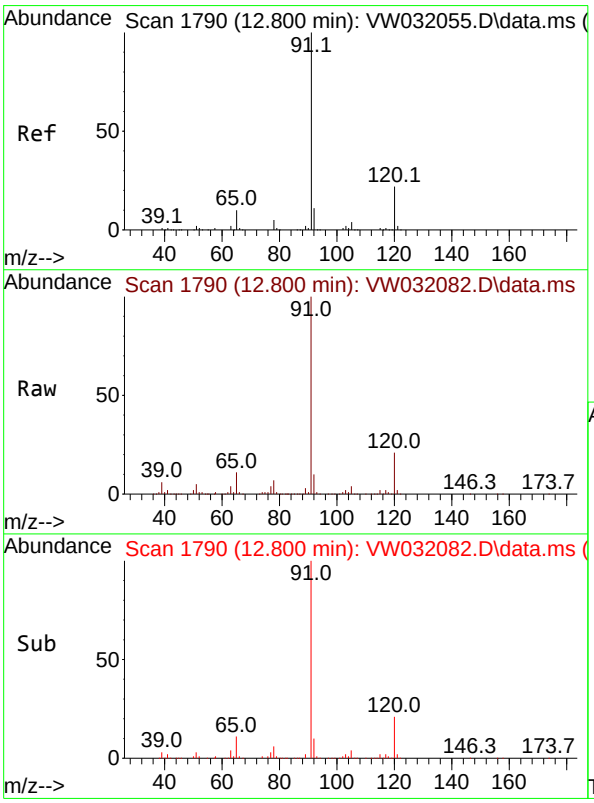
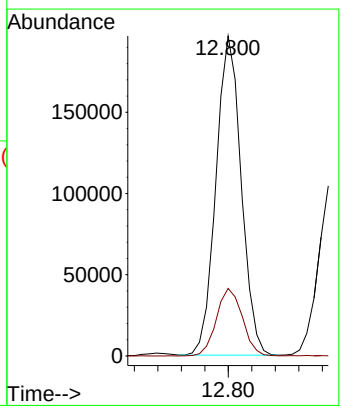
Supervised By :Mahesh Dadoda 08/19/2025

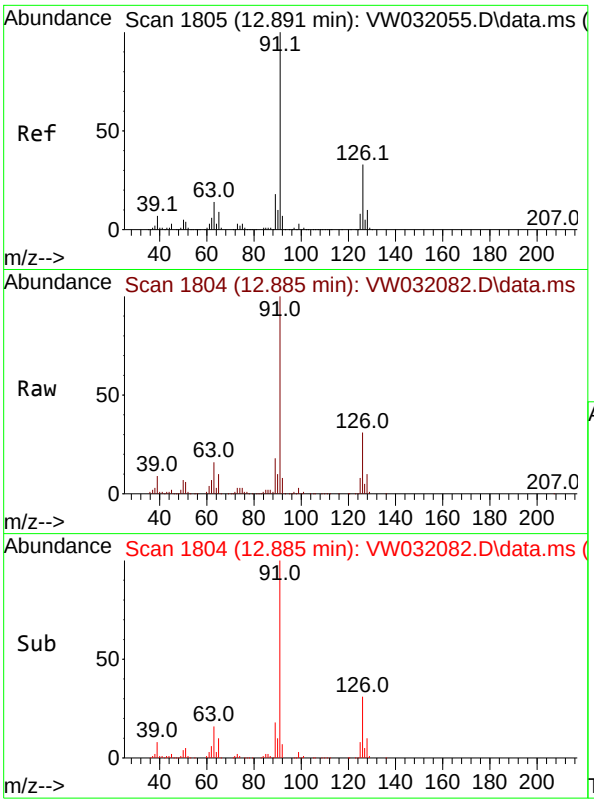


#78
n-propylbenzene
Concen: 19.630 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 293106

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.1	33.3





#79
2-Chlorotoluene
Concen: 18.674 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 17208

Ion	Ratio	Lower	Upper
91	100		
126	33.8	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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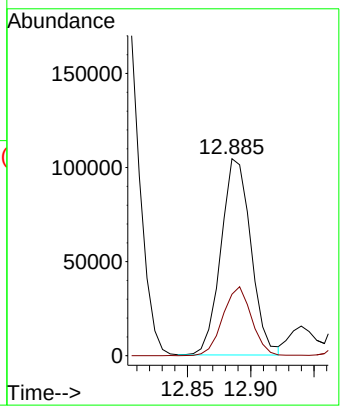
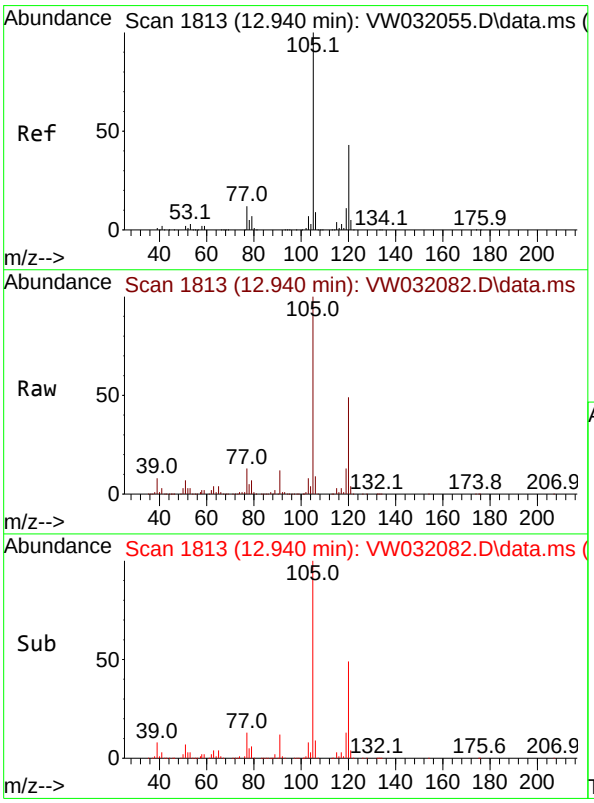
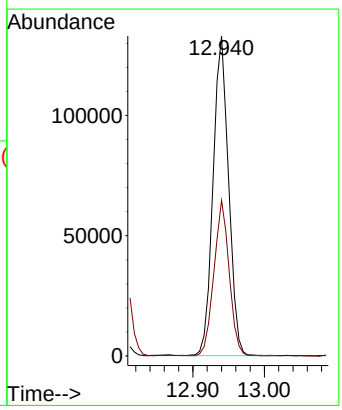


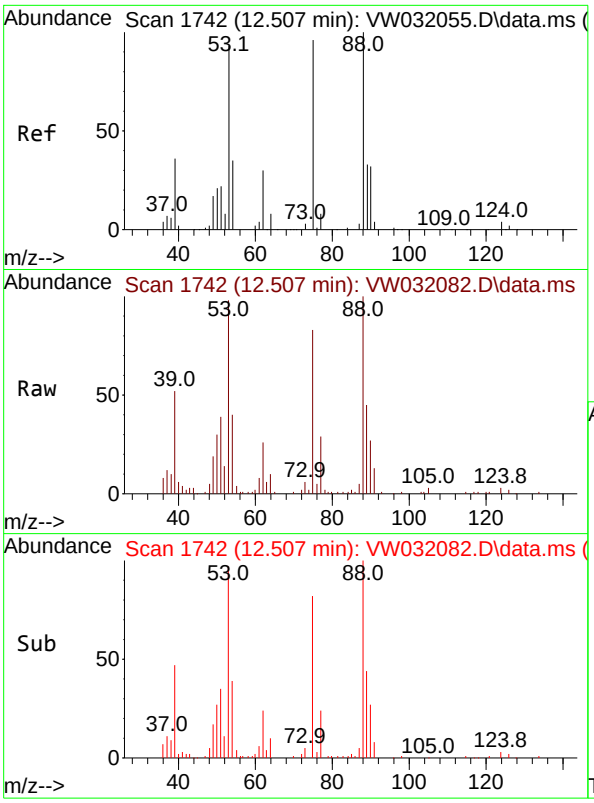


#80
1,3,5-Trimethylbenzene
Concen: 19.419 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:105 Resp: 199943

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 16.406 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 1492

Ion	Ratio	Lower	Upper
75	100		
53	123.4	81.0	121.6#
89	48.6	37.3	55.9

Instrument :
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ClientSampleId :
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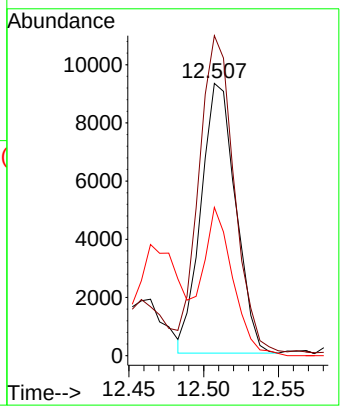
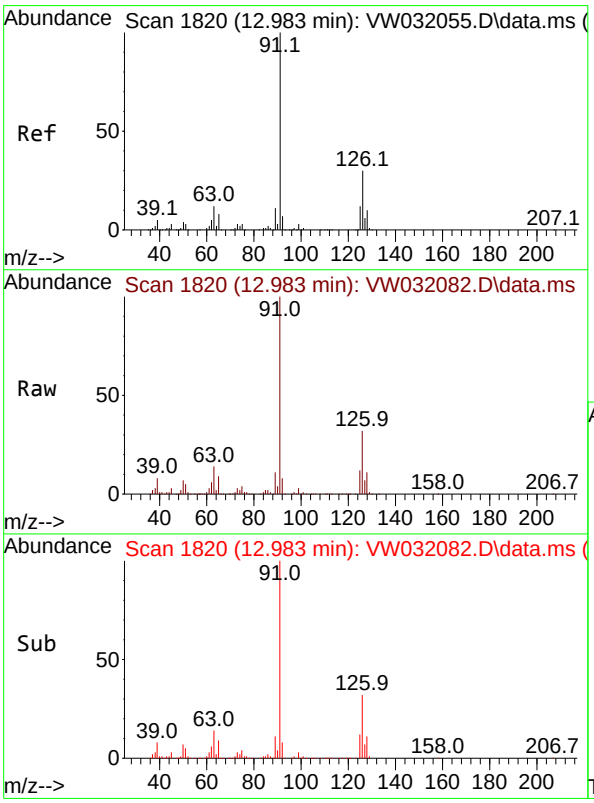
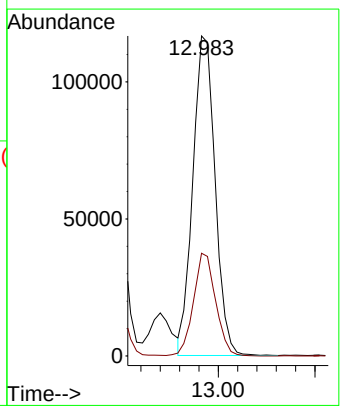


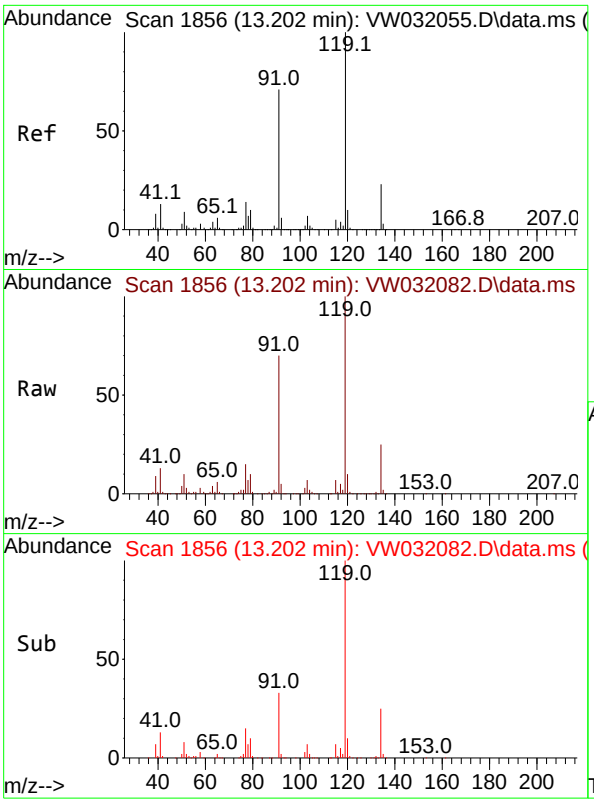


#82
4-Chlorotoluene
Concen: 19.042 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 186440

Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.5	46.5





#83
tert-Butylbenzene
Concen: 19.009 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:119 Resp: 16243

Ion	Ratio	Lower	Upper
119	100		
91	70.8	35.3	105.9
134	24.8	12.1	36.3

Instrument :
MSVOA_W
ClientSampleId :
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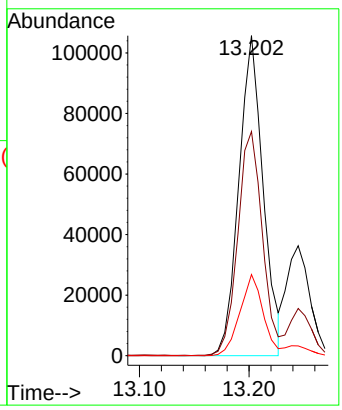
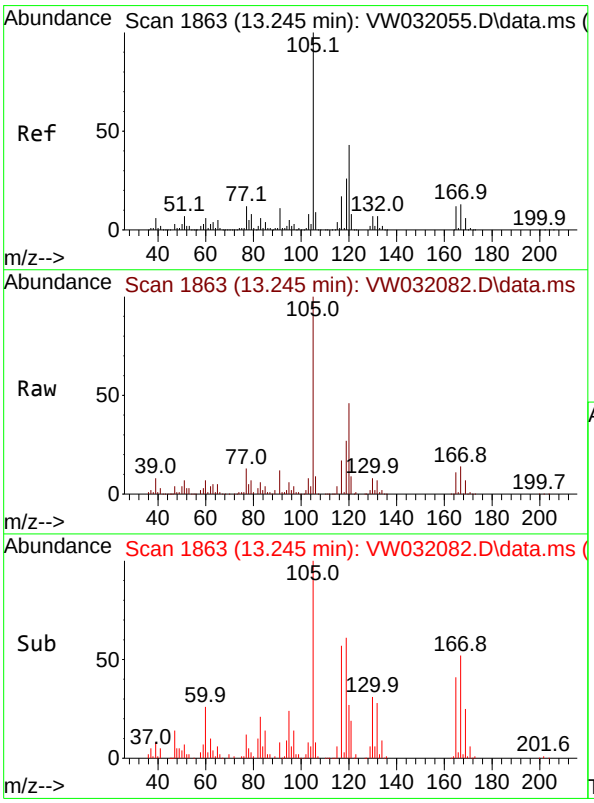
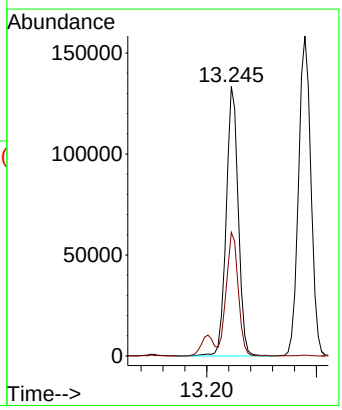


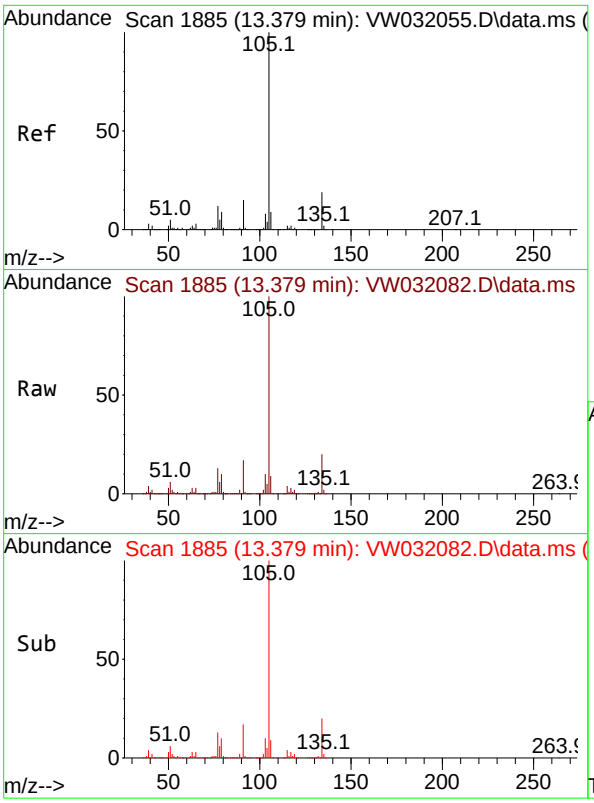


#84
1,2,4-Trimethylbenzene
Concen: 19.477 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:105 Resp: 204141

Ion	Ratio	Lower	Upper
105	100		
120	45.4	21.6	64.8





#85
sec-Butylbenzene
Concen: 19.074 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:105 Resp: 24643

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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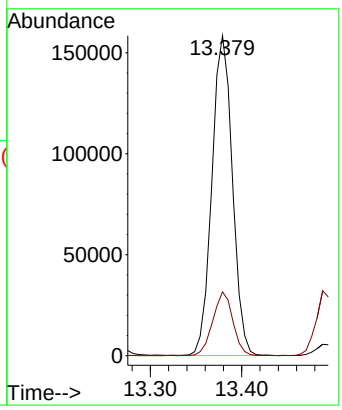
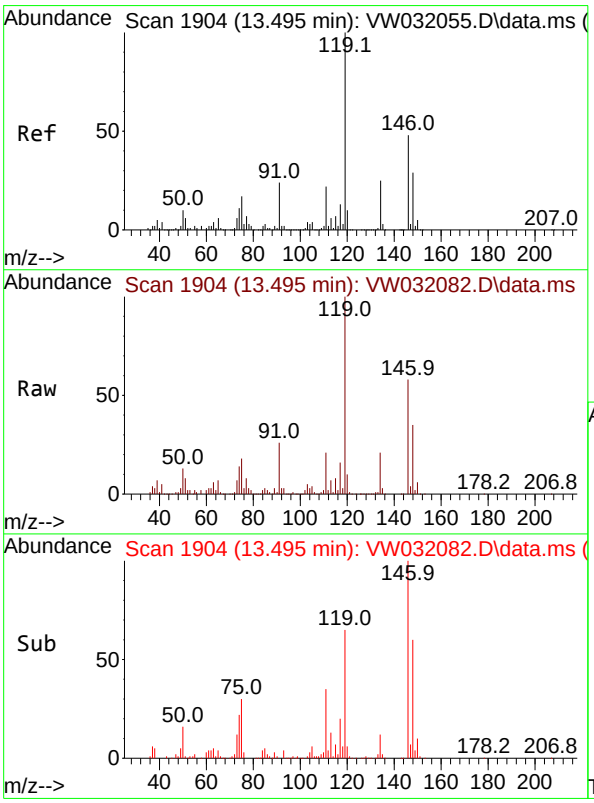
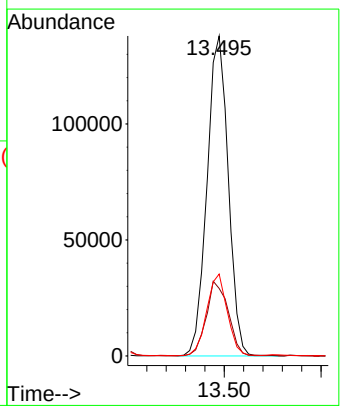


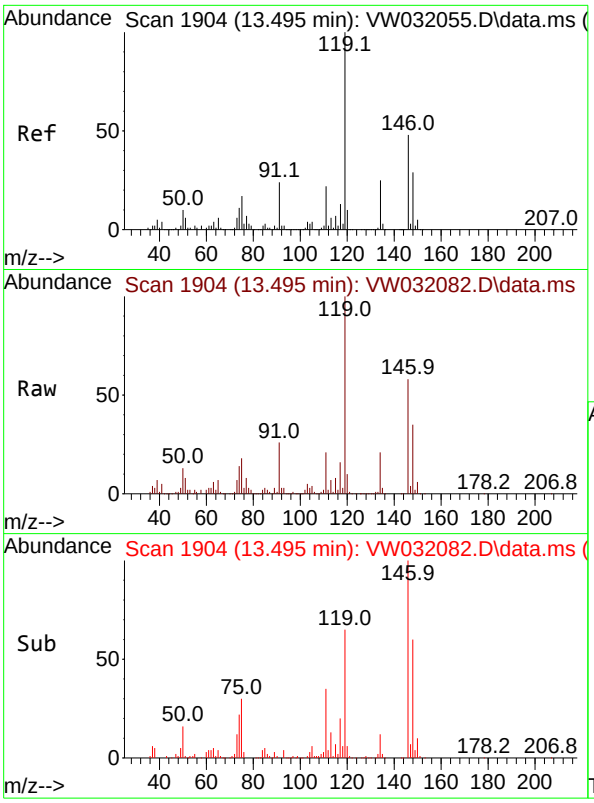


#86
p-Isopropyltoluene
Concen: 19.547 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:119 Resp: 210533

Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.4	37.0
91	24.6	12.1	36.3

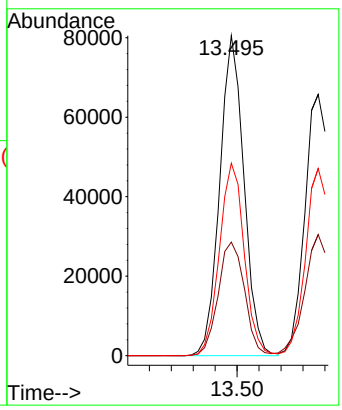




#87
1,3-Dichlorobenzene
Concen: 21.455 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:146 Resp: 12366

Ion	Ratio	Lower	Upper
146	100		
111	38.6	21.2	63.6
148	61.7	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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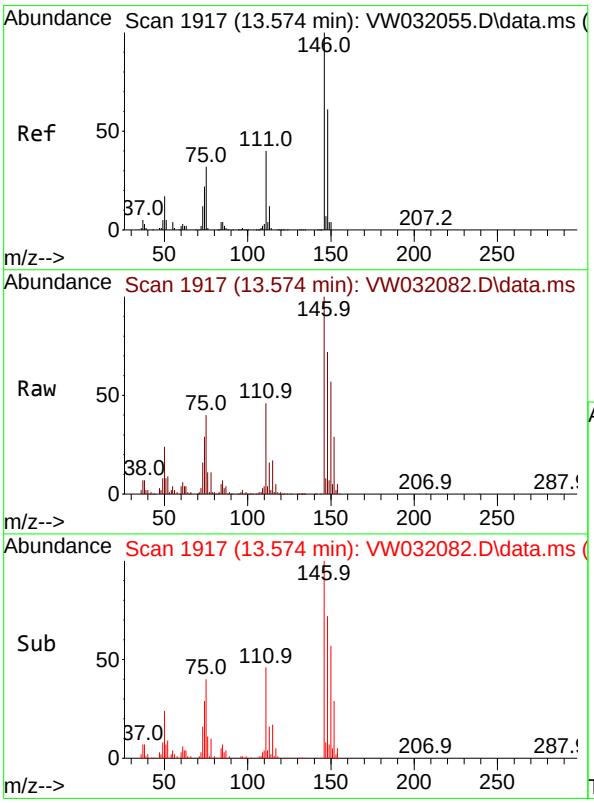
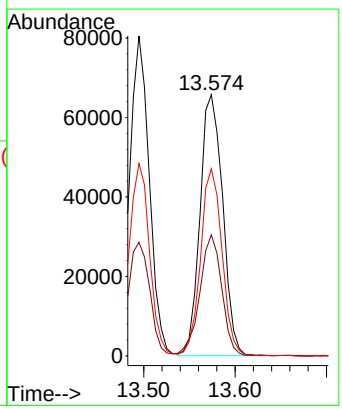
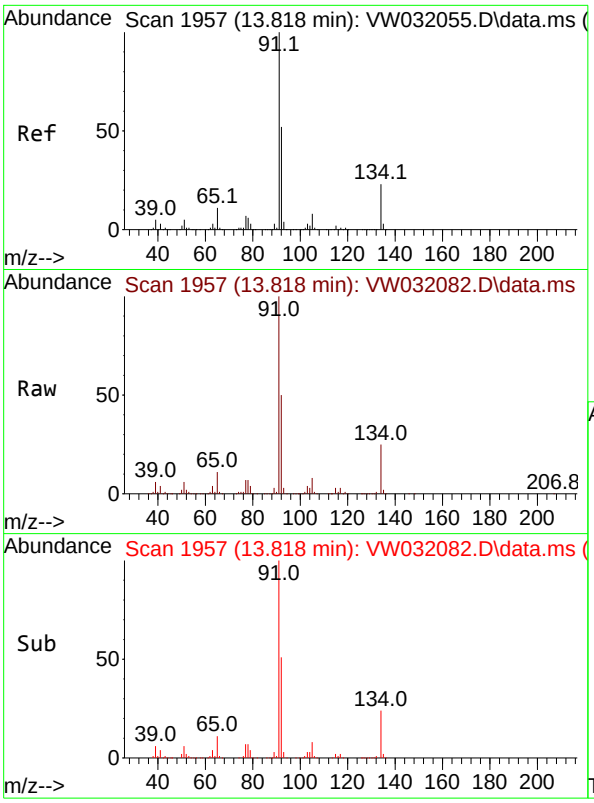


#88
1,4-Dichlorobenzene
Concen: 19.366 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:146 Resp: 112801

Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.6	64.6
148	67.9	32.0	96.2

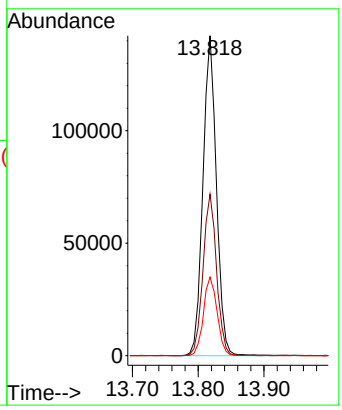




#89
n-Butylbenzene
Concen: 19.407 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 20306

Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.7	80.1
134	24.9	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
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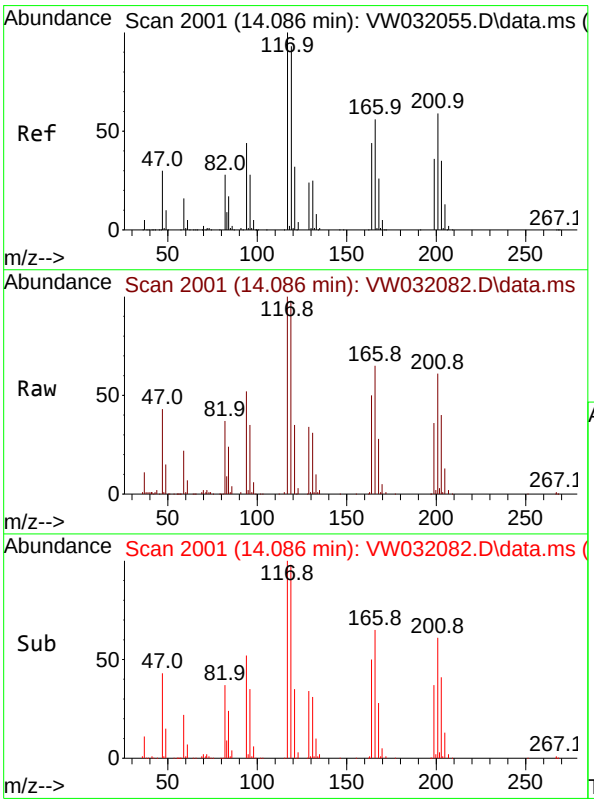
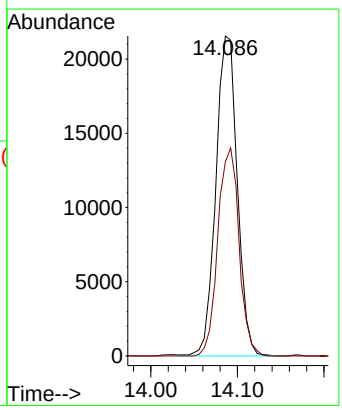
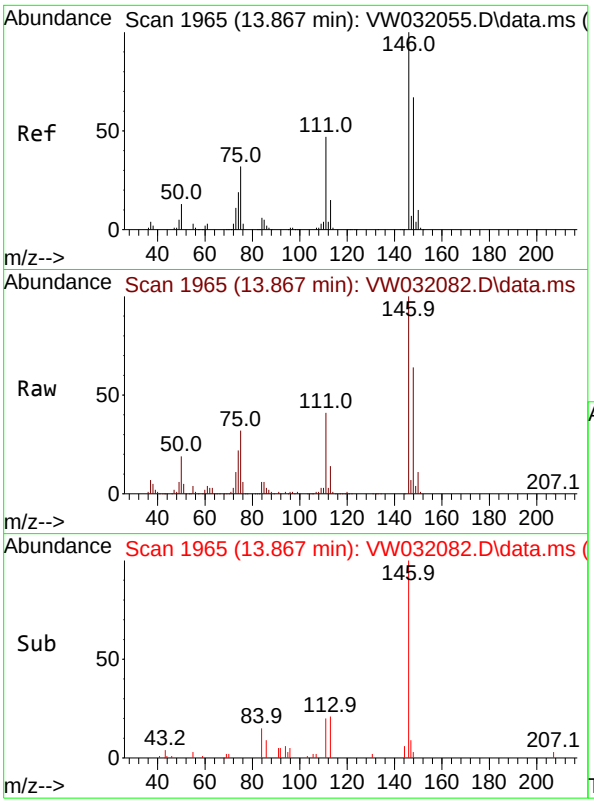


#90
Hexachloroethane
Concen: 18.817 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:117 Resp: 37065

Ion	Ratio	Lower	Upper
117	100		
201	64.3	30.9	92.5

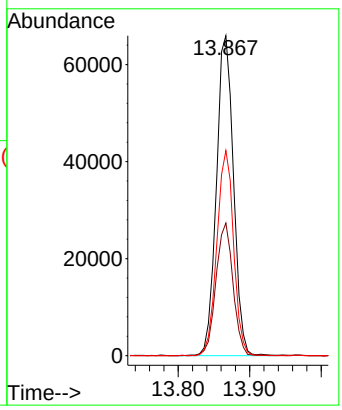




#91
1,2-Dichlorobenzene
Concen: 20.963 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:146 Resp: 10945

Ion	Ratio	Lower	Upper
146	100		
111	41.4	23.1	69.3
148	62.7	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
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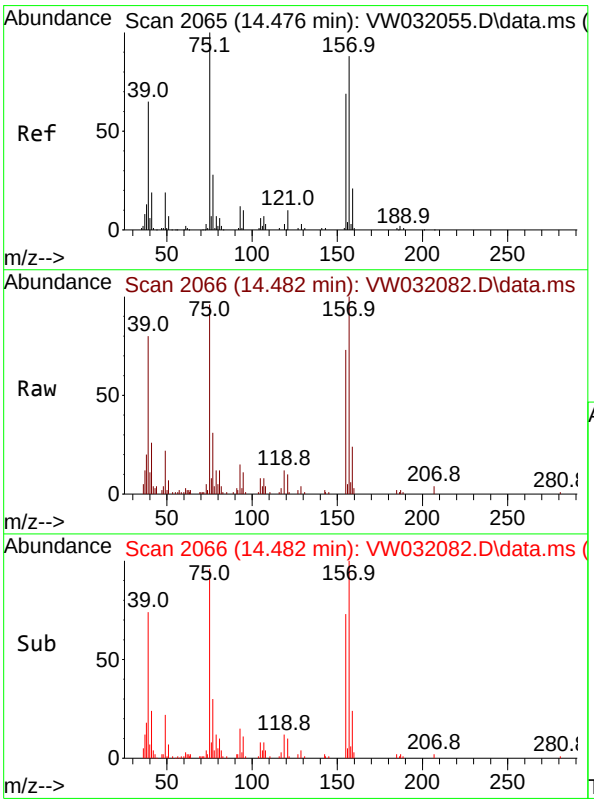
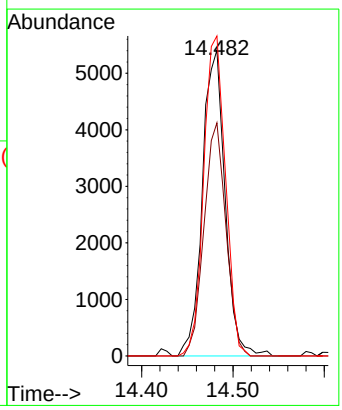
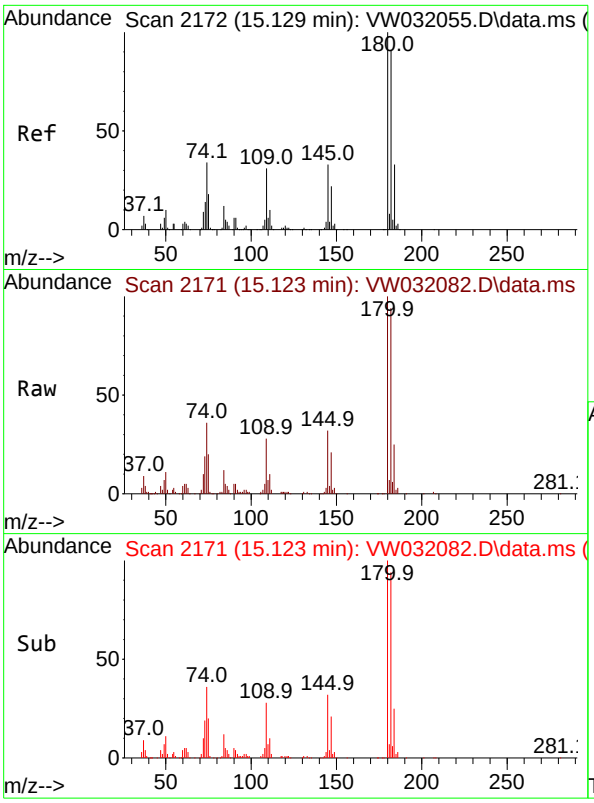


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.149 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 9291

Ion	Ratio	Lower	Upper
75	100		
155	74.0	35.2	105.6
157	100.4	47.5	142.6

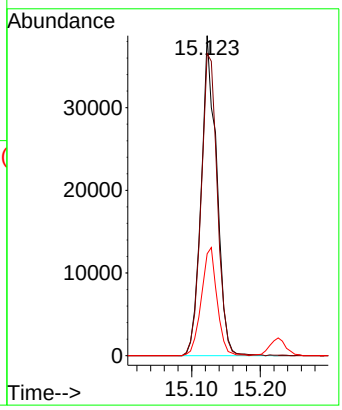




#93
1,2,4-Trichlorobenzene
Concen: 19.423 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:180 Resp: 6066

Ion	Ratio	Lower	Upper
180	100		
182	99.0	49.0	147.0
145	34.4	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

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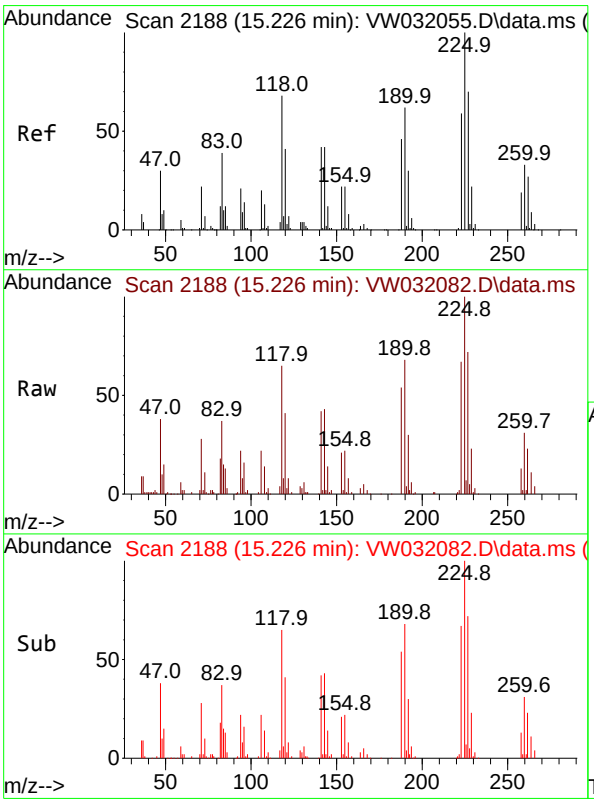
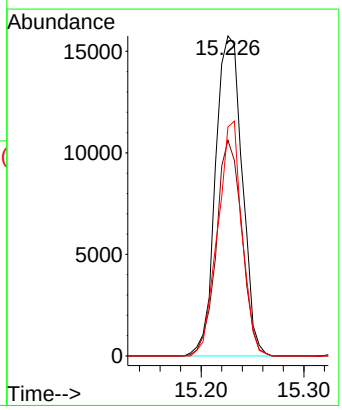
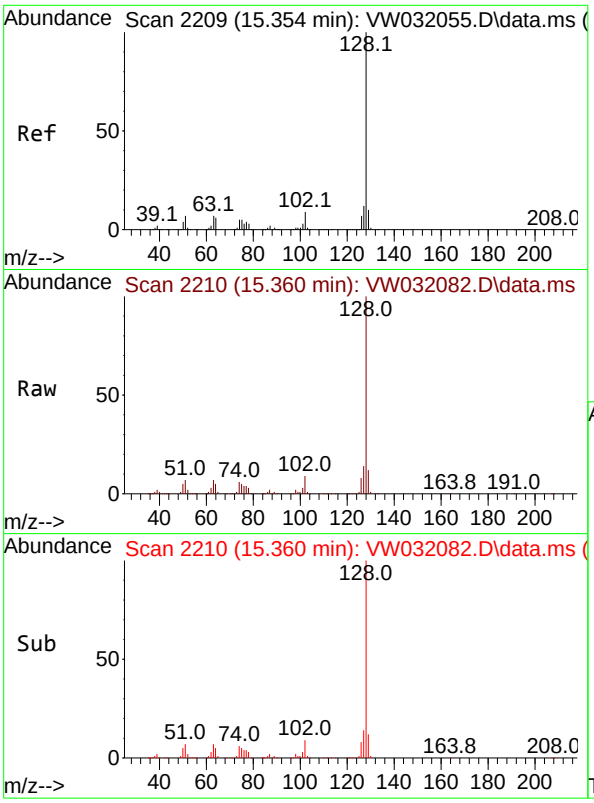


#94
Hexachlorobutadiene
Concen: 20.310 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:225 Resp: 28357

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.8	95.3
227	66.8	33.5	100.5

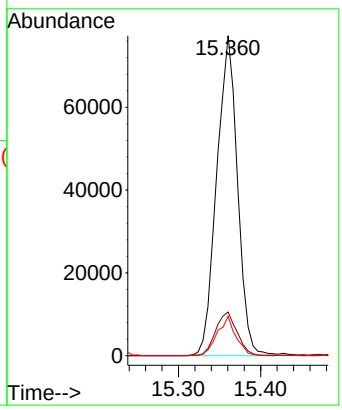




#95
Naphthalene
Concen: 17.805 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:128 Resp: 13627

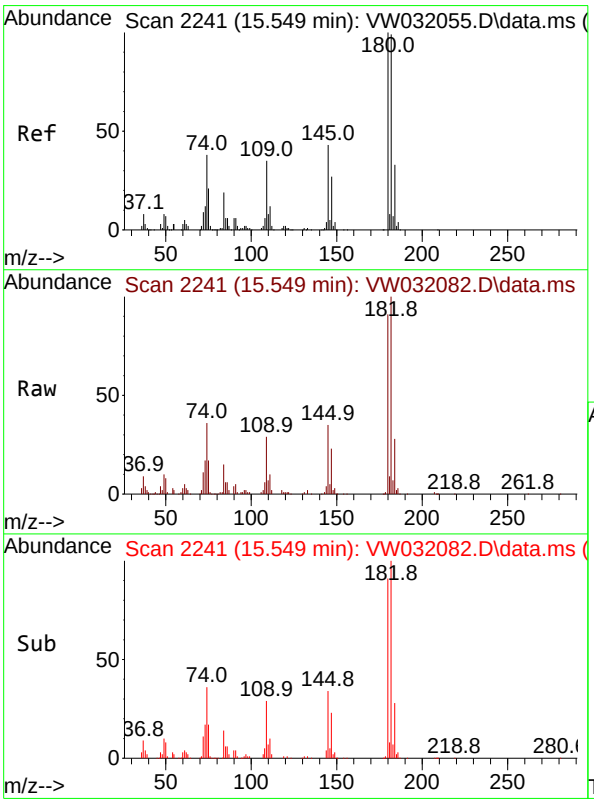
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.5	15.7
129	11.2	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Manual Integrations
APPROVED

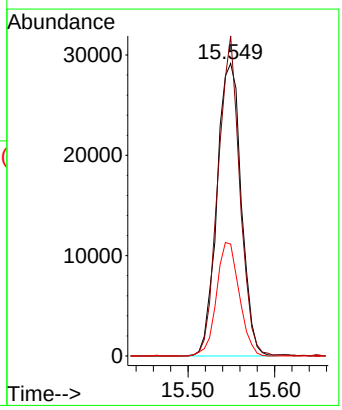
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.997 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:180 Resp: 56830

Ion	Ratio	Lower	Upper
180	100		
182	98.1	46.0	138.0
145	36.4	19.2	57.6



Raw Data: **VY023113.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0815SBS01	SDG No.:	Q2820
Lab Sample ID:	VY0815SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023113.D	1	08/15/25 09:37	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	19.7		1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.5		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	25.5		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	22.7		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.8		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	110		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.1		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.5		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.4		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.1		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	21.9		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	20.9		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.3		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.7		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.9		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	2.50	5.00	ug/Kg

Raw Data: **VY023113.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0815SBS01	SDG No.:	Q2820
Lab Sample ID:	VY0815SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023113.D	1	08/15/25 09:37	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.9		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.6		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.8		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	19.5		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.8		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.6		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	18.6		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	18.7		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.8		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.1		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.9		1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.2		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.7		71 - 136		103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		78 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.2		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	452000	7.707				
540-36-3	1,4-Difluorobenzene	727000	8.616				
3114-55-4	Chlorobenzene-d5	654000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	327000	13.341				

Raw Data: **VY023113.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0815SBS01	SDG No.:	Q2820
Lab Sample ID:	VY0815SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023113.D	1	08/15/25 09:37	VY081525

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	452403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	727202	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	654458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	327154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	222883	51.692	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.380%			
35) Dibromofluoromethane	7.634	113	214583	49.314	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.620%			
50) Toluene-d8	10.103	98	852746	50.165	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.320%			
62) 4-Bromofluorobenzene	12.402	95	265399	48.547	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	72666	19.678	ug/l	95
3) Chloromethane	2.068	50	133033	22.242	ug/l	99
4) Vinyl Chloride	2.202	62	166453	22.514	ug/l	99
5) Bromomethane	2.586	94	140731	25.487	ug/l	99
6) Chloroethane	2.733	64	111737	22.732	ug/l	98
7) Trichlorofluoromethane	3.050	101	189636	21.094	ug/l	99
8) Diethyl Ether	3.452	74	47224	19.855	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	89471	20.173	ug/l	98
10) Methyl Iodide	4.001	142	86732	18.122	ug/l	98
11) Tert butyl alcohol	4.860	59	27882	94.376	ug/l	99
12) 1,1-Dichloroethene	3.787	96	86211	19.775	ug/l	96
13) Acrolein	3.647	56	38871	89.841	ug/l	100
14) Allyl chloride	4.379	41	123002	19.175	ug/l	98
15) Acrylonitrile	5.055	53	97096	100.413	ug/l	99
16) Acetone	3.867	43	106046	113.526	ug/l	96
17) Carbon Disulfide	4.104	76	285962	20.117	ug/l	99
18) Methyl Acetate	4.379	43	51562	18.549	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	220832	19.548	ug/l	98
20) Methylene Chloride	4.610	84	108703	20.808	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	97531	19.907	ug/l	98
22) Diisopropyl ether	6.019	45	280592	20.129	ug/l	95
23) Vinyl Acetate	5.958	43	767186	99.534	ug/l	98
24) 1,1-Dichloroethane	5.915	63	173658	20.377	ug/l	99
25) 2-Butanone	6.890	43	133656	105.206	ug/l	100
26) 2,2-Dichloropropane	6.884	77	149423	20.319	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	113605	20.058	ug/l	97
28) Bromochloromethane	7.238	49	74111	21.919	ug/l	96
29) Tetrahydrofuran	7.262	42	77082	97.884	ug/l	99
30) Chloroform	7.415	83	183779	20.909	ug/l	92
31) Cyclohexane	7.701	56	151804	18.902	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	157956	20.254	ug/l	99
36) 1,1-Dichloropropene	7.835	75	129384	20.008	ug/l	99
37) Ethyl Acetate	6.982	43	55493	20.428	ug/l	98
38) Carbon Tetrachloride	7.817	117	137873	19.630	ug/l	99
39) Methylcyclohexane	9.103	83	159285	18.705	ug/l	99
40) Benzene	8.079	78	405603	20.350	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	28150	17.956	ug/l		90
42) 1,2-Dichloroethane	8.152	62	106658	20.575	ug/l		98
43) Isopropyl Acetate	8.195	43	107344	19.551	ug/l		99
44) Trichloroethene	8.860	130	105377	20.459	ug/l		100
45) 1,2-Dichloropropane	9.140	63	93789	20.451	ug/l		100
46) Dibromomethane	9.231	93	54800	20.819	ug/l		97
47) Bromodichloromethane	9.420	83	141008	20.819	ug/l		100
48) Methyl methacrylate	9.219	41	49562	18.864	ug/l		98
49) 1,4-Dioxane	9.238	88	12370	400.796	ug/l		97
51) 4-Methyl-2-Pentanone	9.994	43	277163	97.864	ug/l		100
52) Toluene	10.170	92	255717	20.201	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	121993	19.890	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	142316	19.623	ug/l		98
55) 1,1,2-Trichloroethane	10.567	97	71057	20.174	ug/l		98
56) Ethyl methacrylate	10.439	69	86412	19.173	ug/l		98
57) 1,3-Dichloropropane	10.713	76	118549	19.846	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	208567	98.106	ug/l		100
59) 2-Hexanone	10.756	43	193382	100.277	ug/l		99
60) Dibromochloromethane	10.908	129	93374	20.091	ug/l		99
61) 1,2-Dibromoethane	11.012	107	66622	20.125	ug/l		98
64) Tetrachloroethene	10.646	164	127239	21.773	ug/l		93
65) Chlorobenzene	11.438	112	274616	19.453	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	93262	19.466	ug/l		98
67) Ethyl Benzene	11.518	91	456905	18.808	ug/l		98
68) m/p-Xylenes	11.627	106	365819	38.555	ug/l		98
69) o-Xylene	11.951	106	165713	18.648	ug/l		98
70) Styrene	11.969	104	281721	19.385	ug/l		99
71) Bromoform	12.127	173	52326	18.687	ug/l	#	98
73) Isopropylbenzene	12.249	105	433053	18.755	ug/l		99
74) N-amyl acetate	12.066	43	91104	18.605	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	71400	18.110	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	61433m	19.457	ug/l		
77) Bromobenzene	12.530	156	104694	19.006	ug/l		97
78) n-propylbenzene	12.591	91	527930	19.204	ug/l		100
79) 2-Chlorotoluene	12.676	91	298409	18.946	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	351759	18.850	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	24161	18.524	ug/l		95
82) 4-Chlorotoluene	12.774	91	307174	18.799	ug/l		99
83) tert-Butylbenzene	12.993	119	305956	18.153	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	356647	19.199	ug/l		99
85) sec-Butylbenzene	13.170	105	468353	18.917	ug/l		100
86) p-Isopropyltoluene	13.286	119	388353	18.897	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	206995	19.055	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	207638	19.268	ug/l		99
89) n-Butylbenzene	13.615	91	353333	18.720	ug/l		98
90) Hexachloroethane	13.877	117	82985	19.725	ug/l		97
91) 1,2-Dichlorobenzene	13.658	146	180503	18.946	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12160	19.809	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	102405	18.177	ug/l		99
94) Hexachlorobutadiene	15.017	225	61940	18.710	ug/l		98
95) Naphthalene	15.139	128	168145	17.503	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	86860	17.892	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
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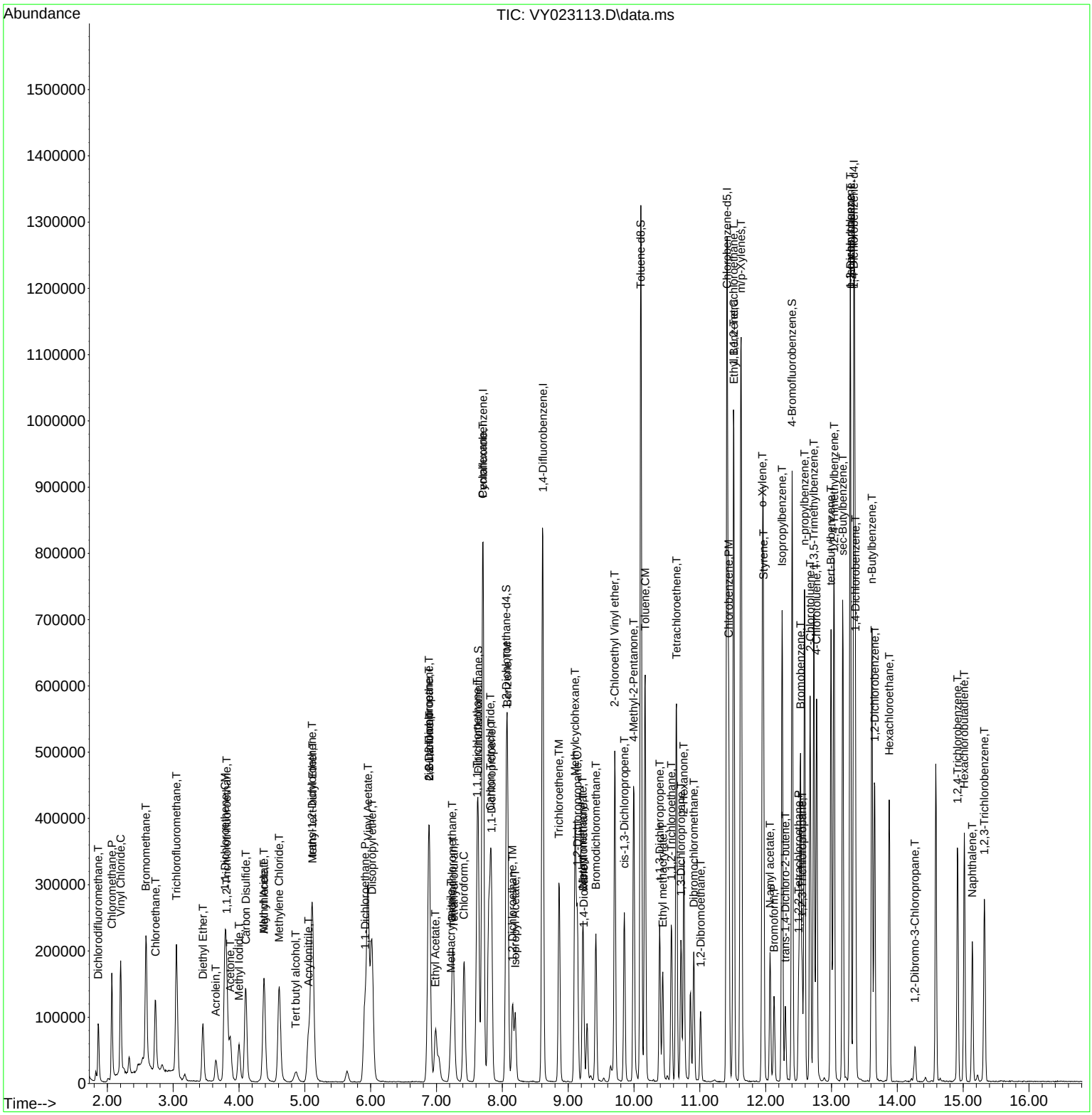
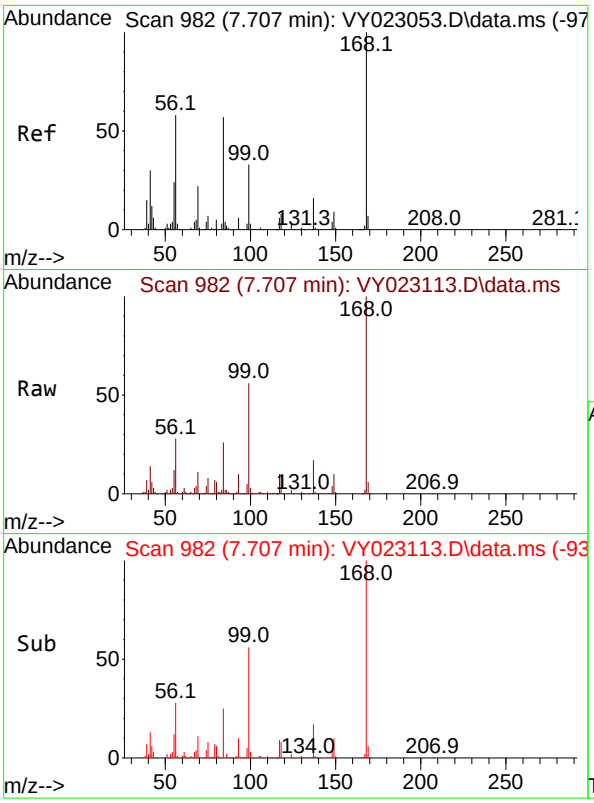
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

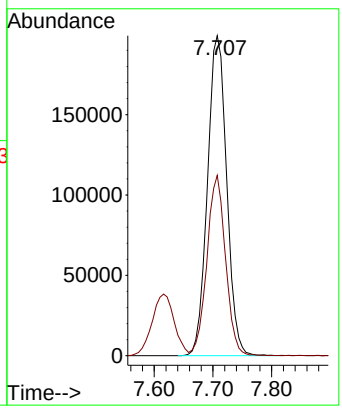




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:168 Resp: 45240

Ion	Ratio	Lower	Upper
168	100		
99	56.3	42.8	64.2



Instrument :
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ClientSampleId :
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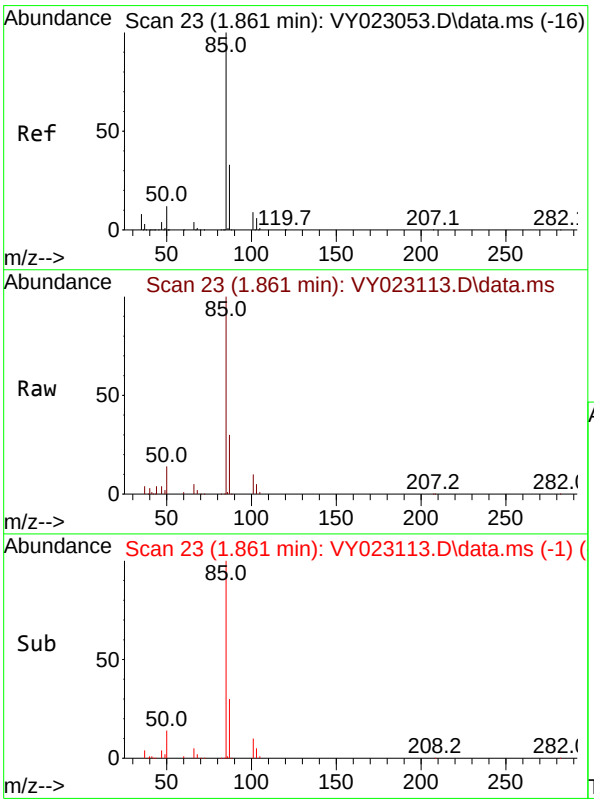
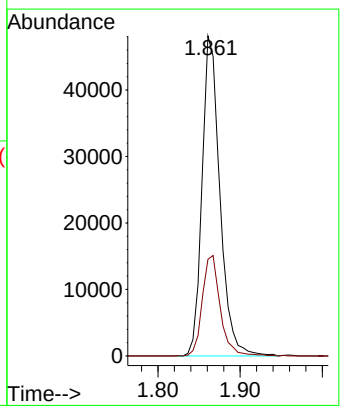
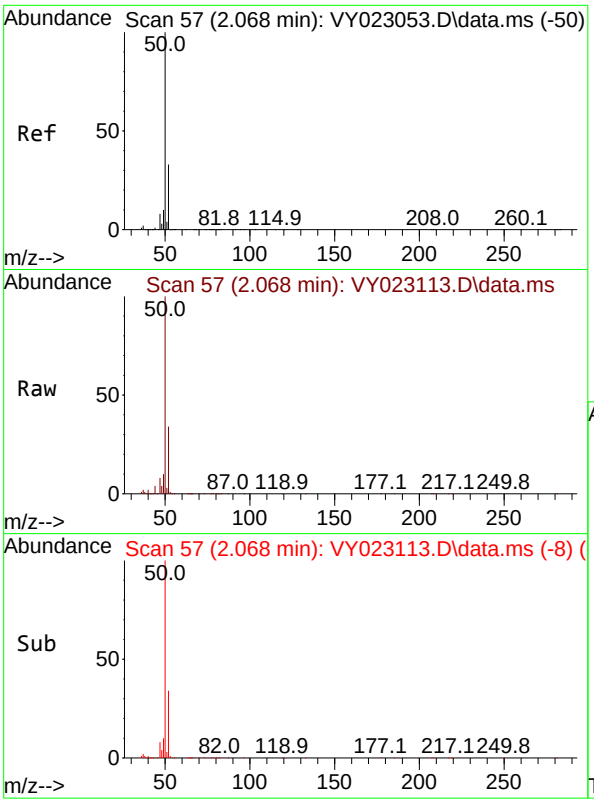


#2
Dichlorodifluoromethane
Concen: 19.678 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 85 Resp: 72666

Ion	Ratio	Lower	Upper
85	100		
87	30.2	16.6	49.8

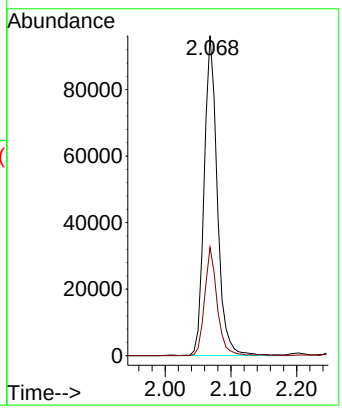




#3
Chloromethane
Concen: 22.242 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 50 Resp: 13303

Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.7	40.1



Instrument :
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ClientSampleId :
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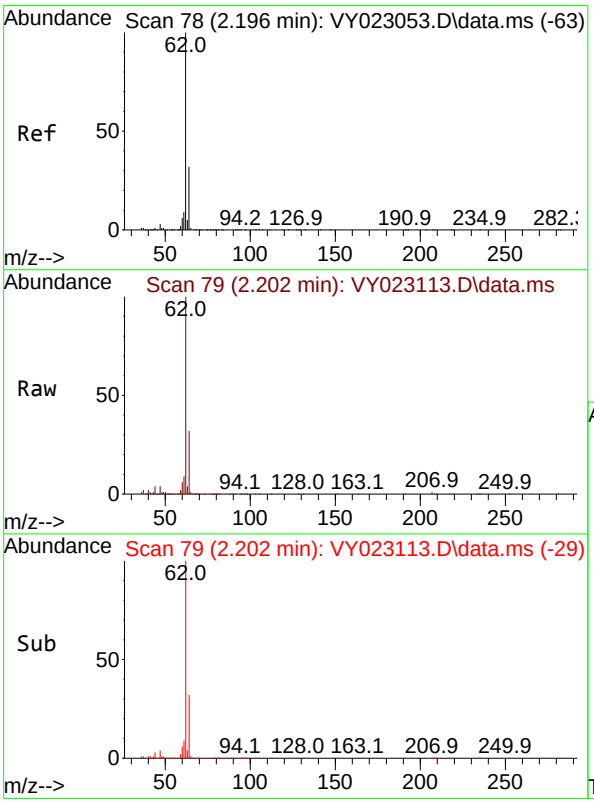
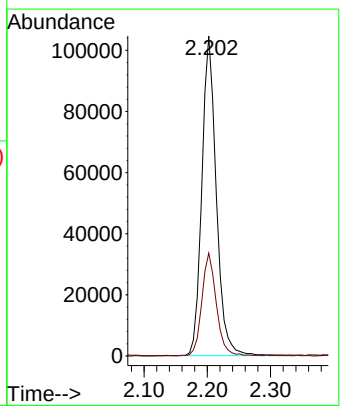
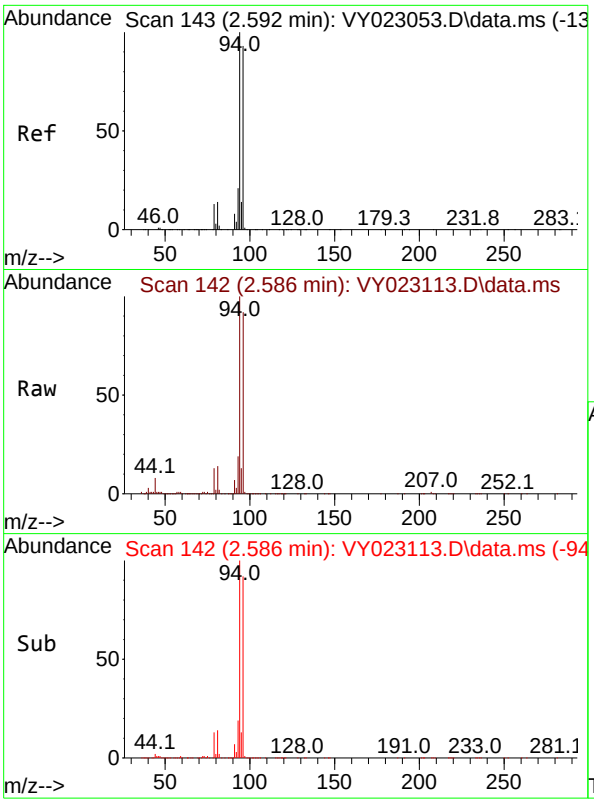


#4
Vinyl Chloride
Concen: 22.514 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 62 Resp: 166453

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

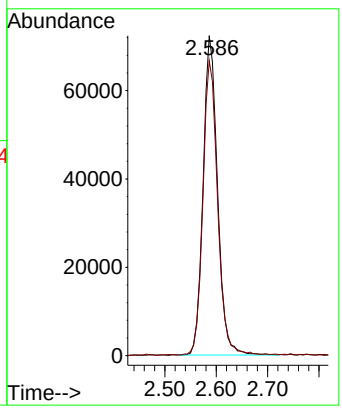




#5
Bromomethane
Concen: 25.487 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 94 Resp: 14073

Ion	Ratio	Lower	Upper
94	100		
96	92.1	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
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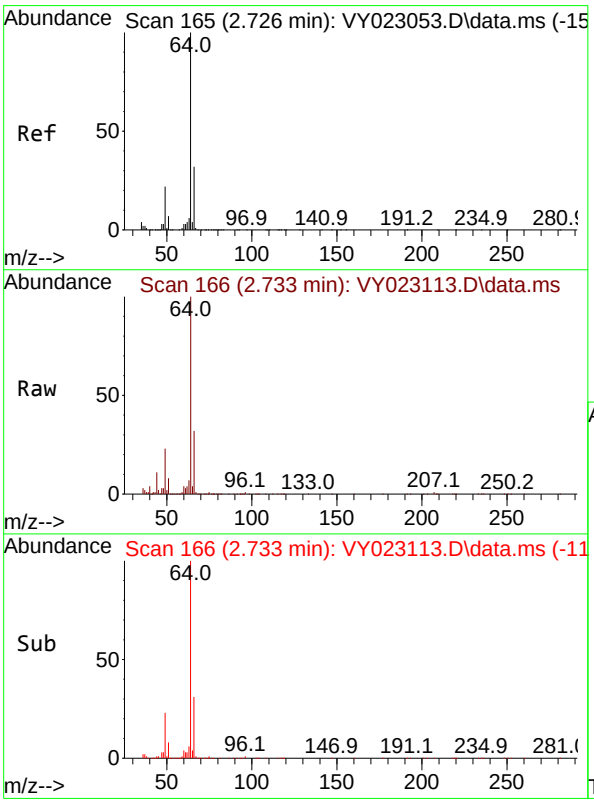
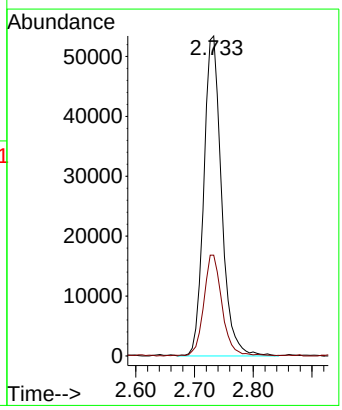
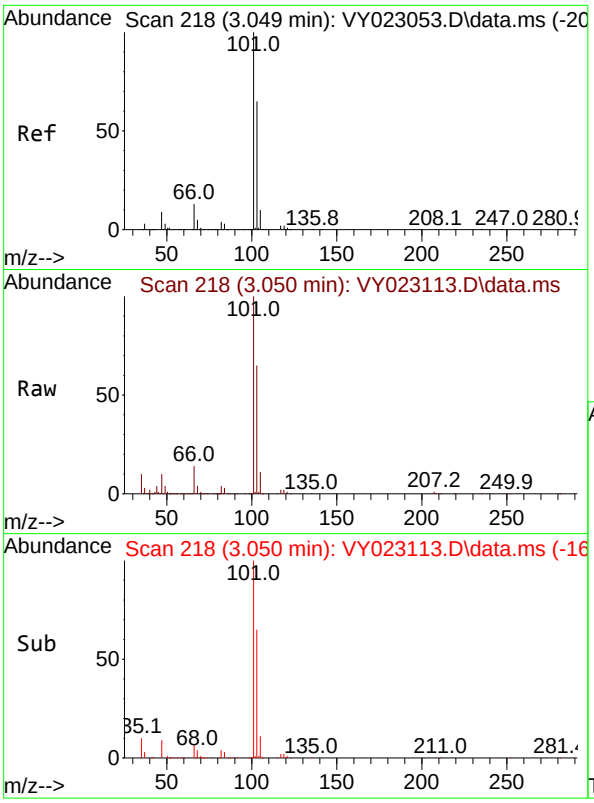


#6
Chloroethane
Concen: 22.732 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 64 Resp: 111737

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.8	38.6

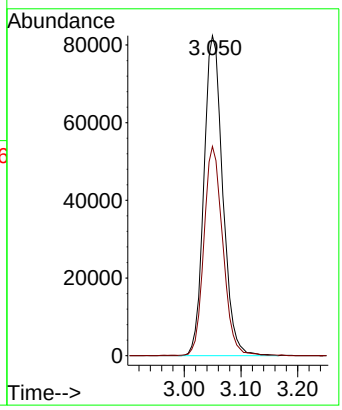




#7
Trichlorofluoromethane
Concen: 21.094 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:101 Resp: 18963

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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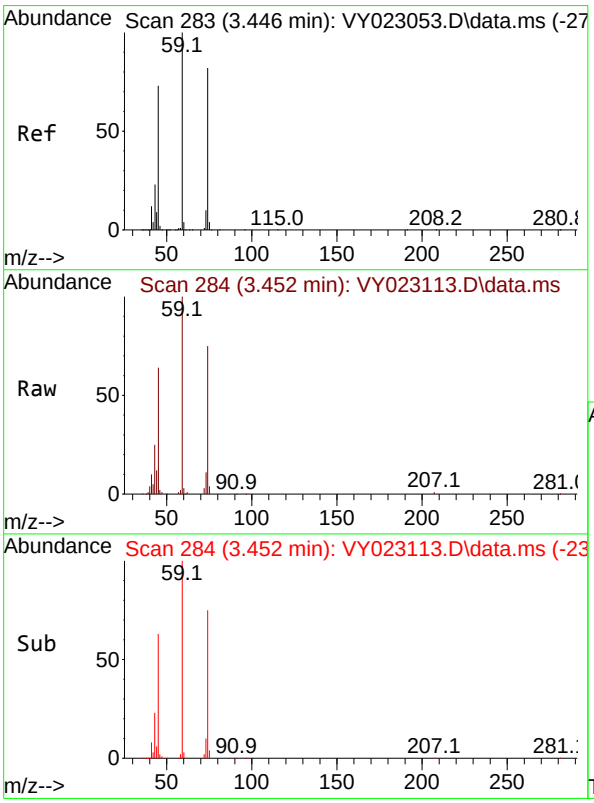
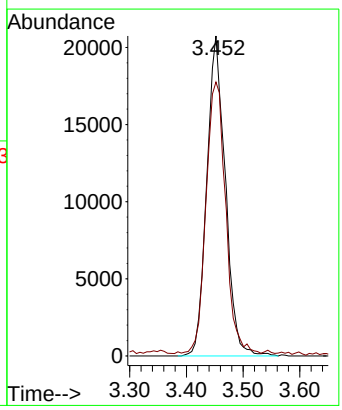
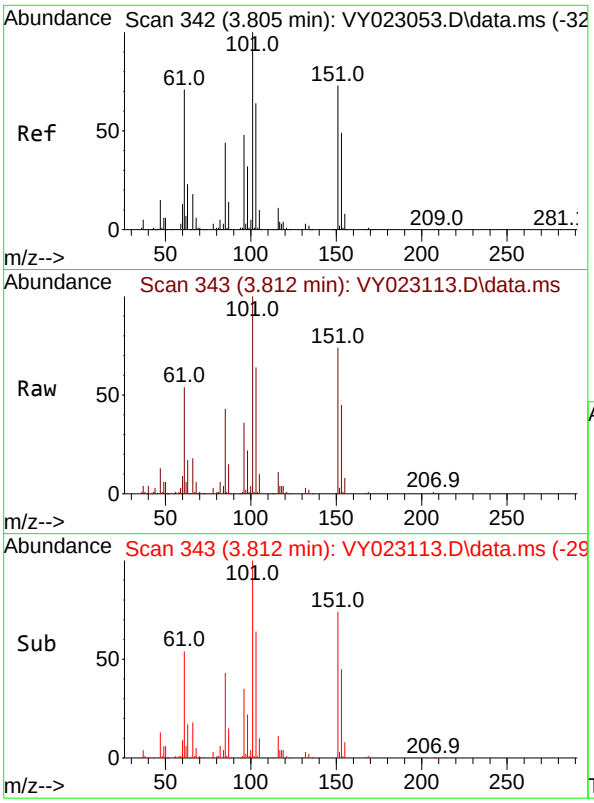


#8
Diethyl Ether
Concen: 19.855 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 74 Resp: 47224

Ion	Ratio	Lower	Upper
74	100		
45	89.4	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.173 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:101 Resp: 8947

Ion	Ratio	Lower	Upper
101	100		
85	46.8	36.3	54.5
151	78.1	61.5	92.3

Instrument :
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ClientSampleId :
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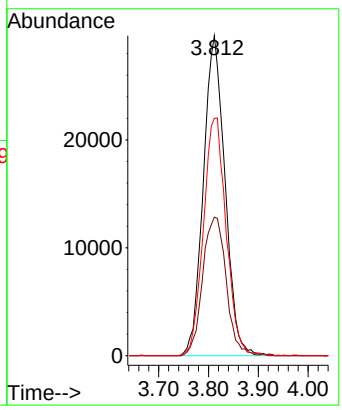
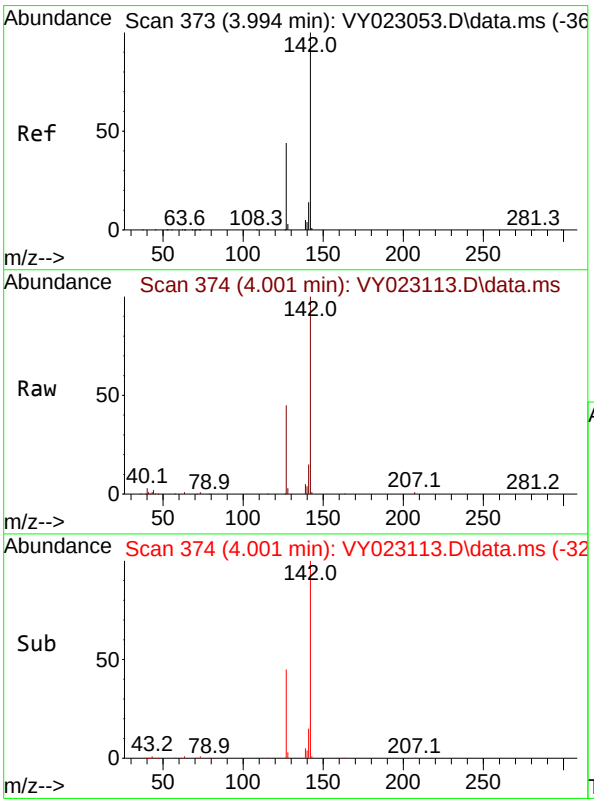
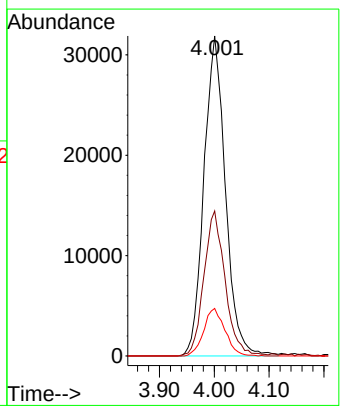


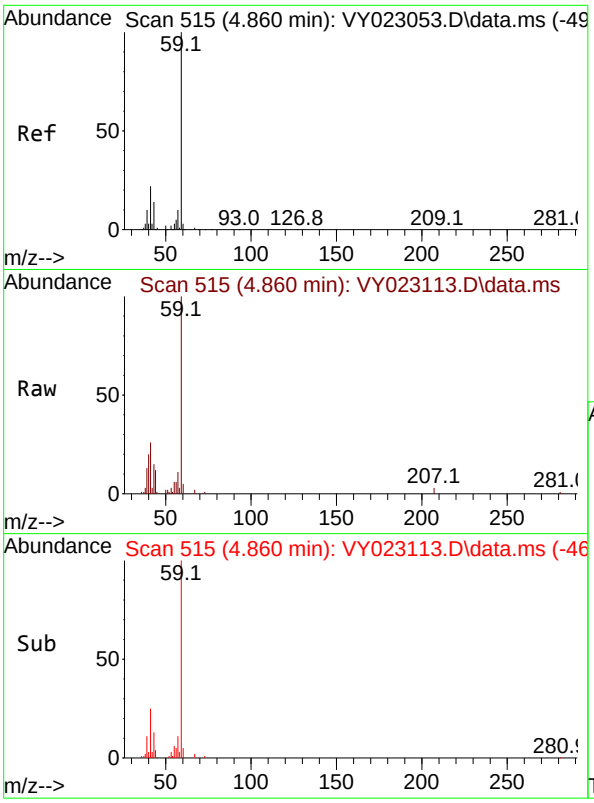


#10
Methyl Iodide
Concen: 18.122 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:142 Resp: 86732

Ion	Ratio	Lower	Upper
142	100		
127	44.8	34.9	52.3
141	14.7	11.3	16.9

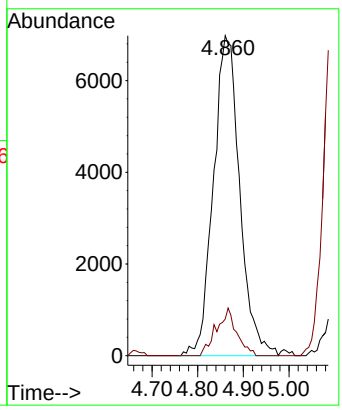




#11
Tert butyl alcohol
Concen: 94.376 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 59 Resp: 2788

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.6	13.0



Instrument :
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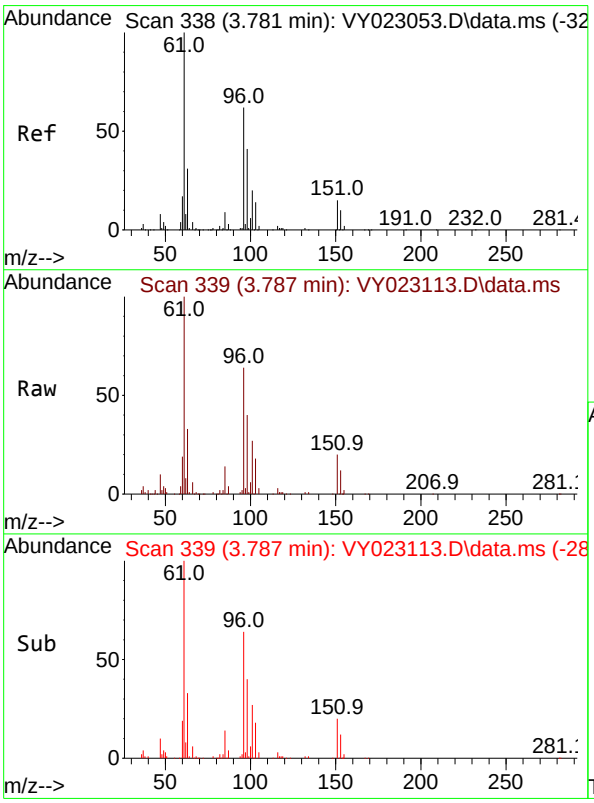
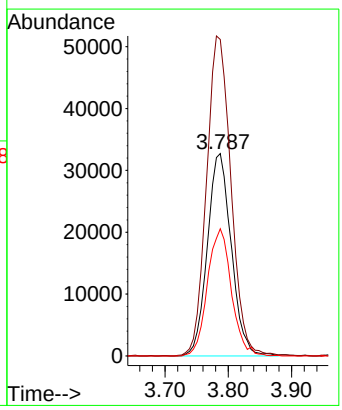
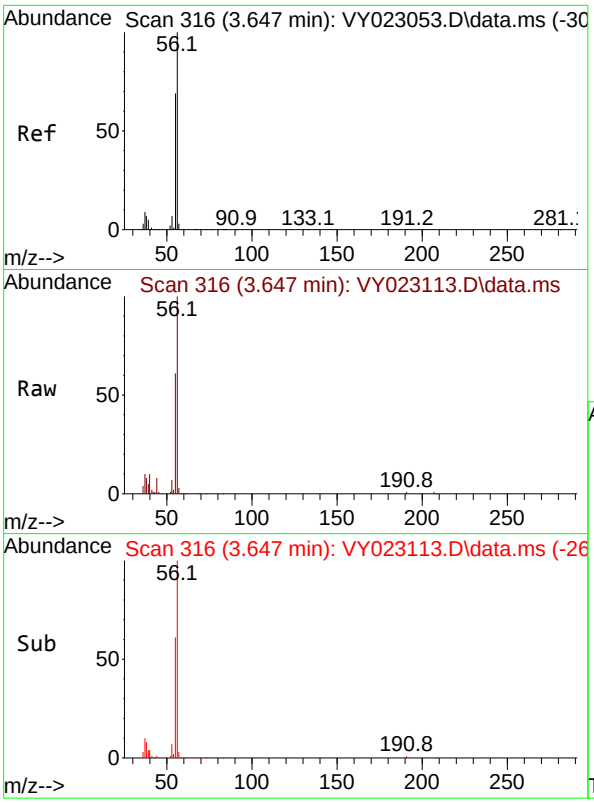


#12
1,1-Dichloroethene
Concen: 19.775 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 96 Resp: 86211

Ion	Ratio	Lower	Upper
96	100		
61	156.1	129.4	194.2
98	62.8	52.8	79.2

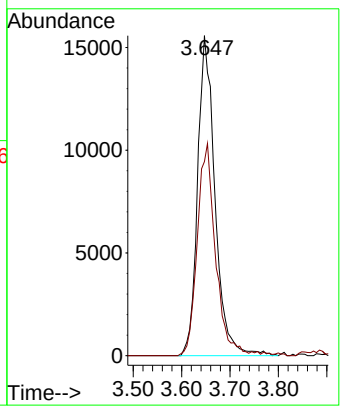




#13
Acrolein
Concen: 89.841 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 56 Resp: 3887

Ion	Ratio	Lower	Upper
56	100		
55	69.2	55.2	82.8



Instrument :
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ClientSampleId :
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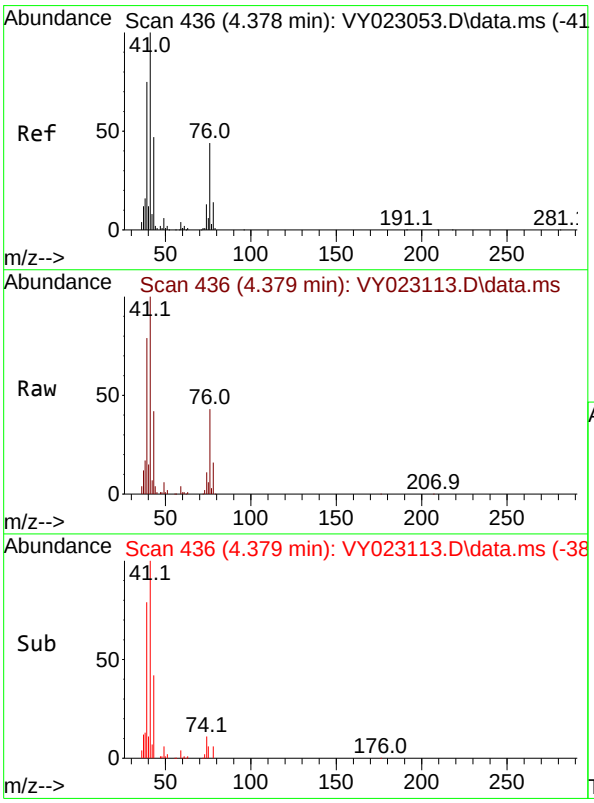
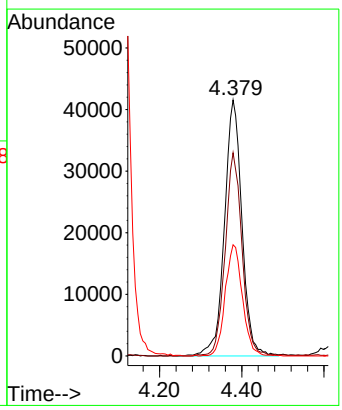
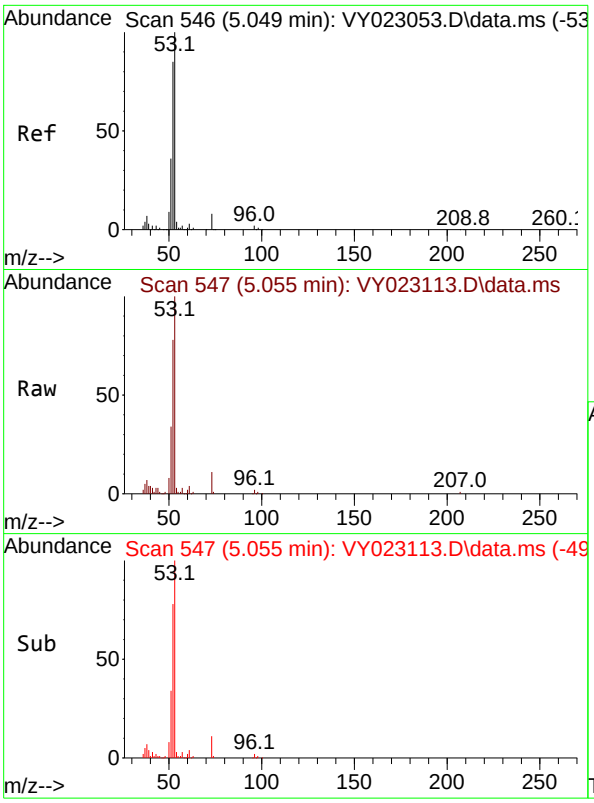


#14
Allyl chloride
Concen: 19.175 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 41 Resp: 123002

Ion	Ratio	Lower	Upper
41	100		
39	76.3	59.8	89.6
76	42.7	33.7	50.5





#15
Acrylonitrile
Concen: 100.413 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 53 Resp: 9709

Ion	Ratio	Lower	Upper
53	100		
52	79.8	65.3	97.9
51	36.7	29.5	44.3

Instrument :
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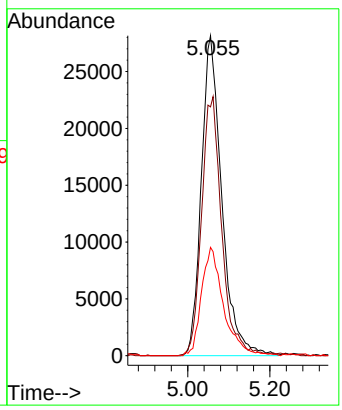
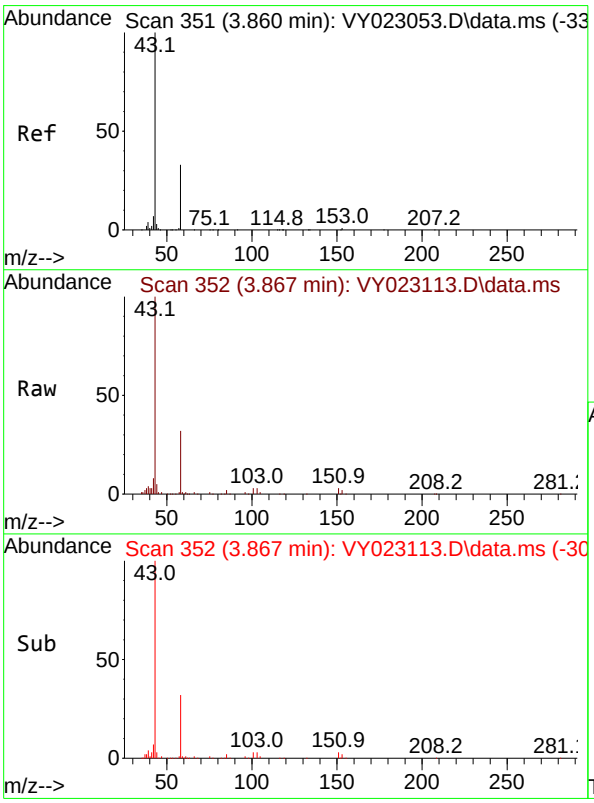
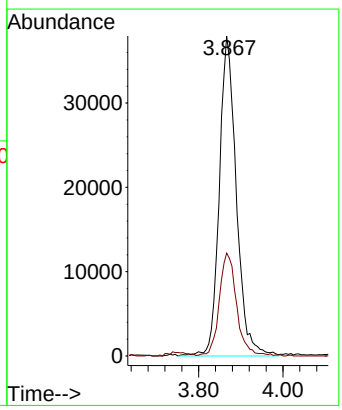


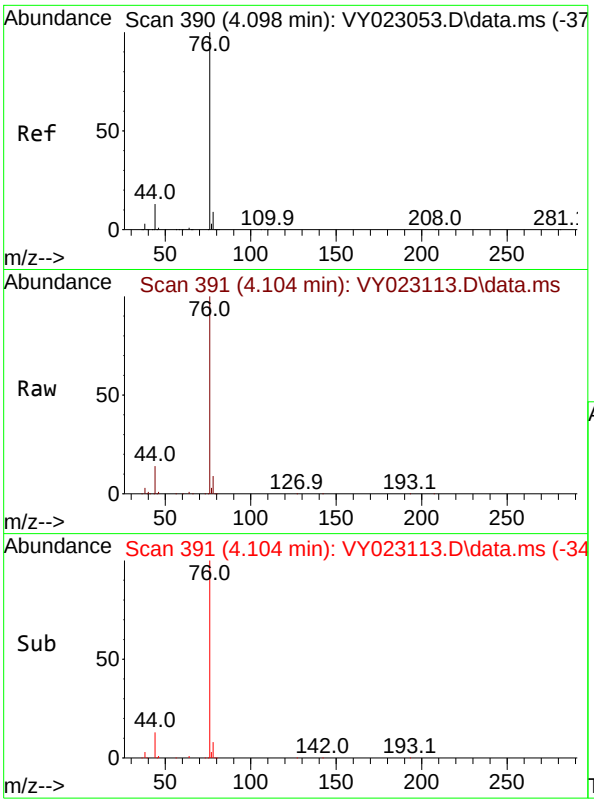


#16
Acetone
Concen: 113.526 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 106046

Ion	Ratio	Lower	Upper
43	100		
58	31.8	27.1	40.7

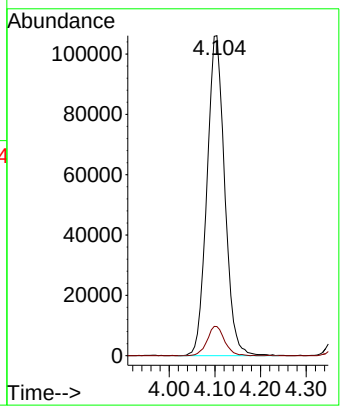




#17
Carbon Disulfide
Concen: 20.117 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 76 Resp: 28596

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2



Instrument :
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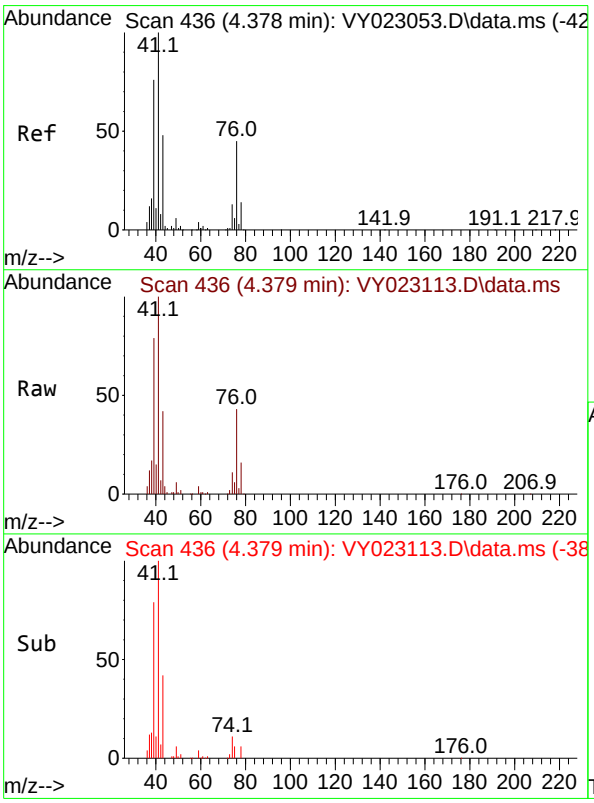
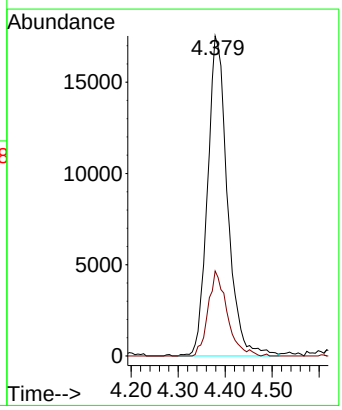
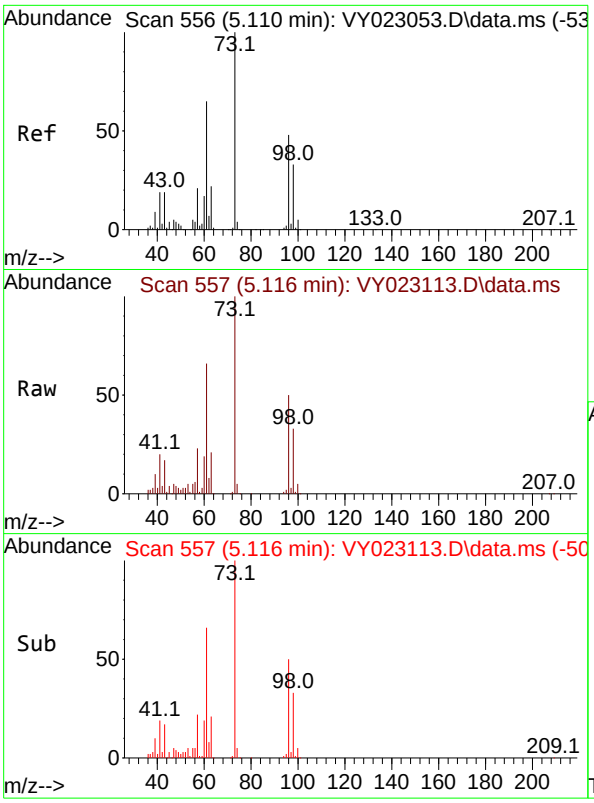


#18
Methyl Acetate
Concen: 18.549 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 51562

Ion	Ratio	Lower	Upper
43	100		
74	25.4	21.2	31.8

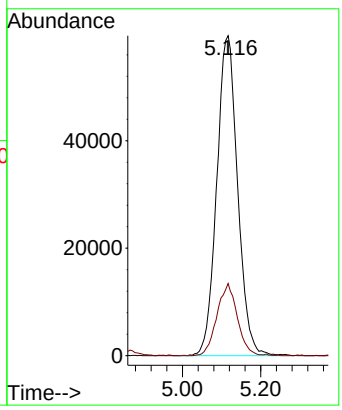




#19
Methyl tert-butyl Ether
Concen: 19.548 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 73 Resp: 22083

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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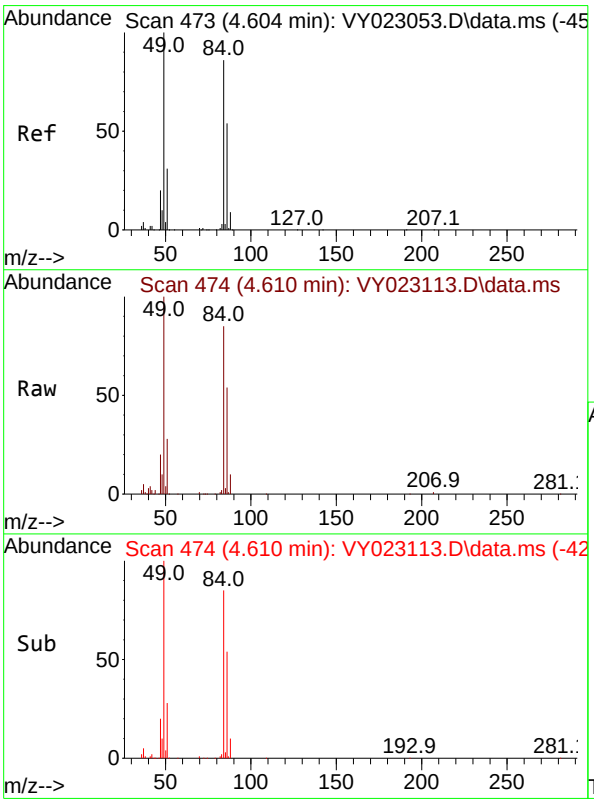
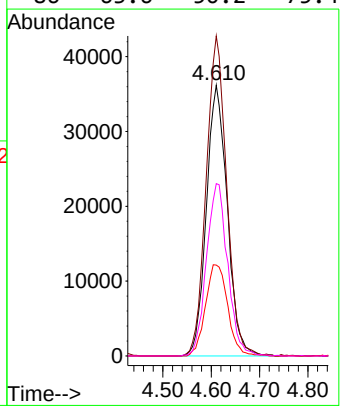
Supervised By :Mahesh Dadoda 08/19/2025

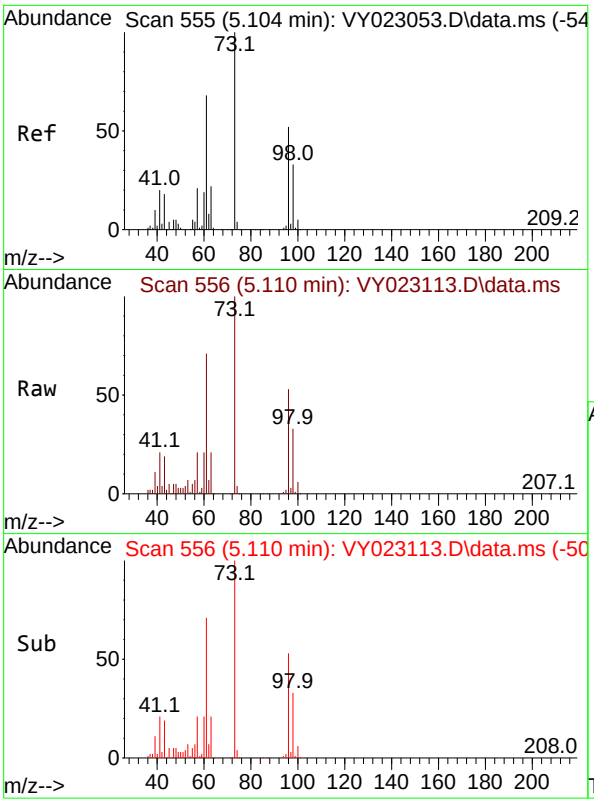


#20
Methylene Chloride
Concen: 20.808 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 84 Resp: 108703

Ion	Ratio	Lower	Upper
84	100		
49	118.2	93.0	139.6
51	33.5	29.0	43.4
86	63.6	50.2	75.4

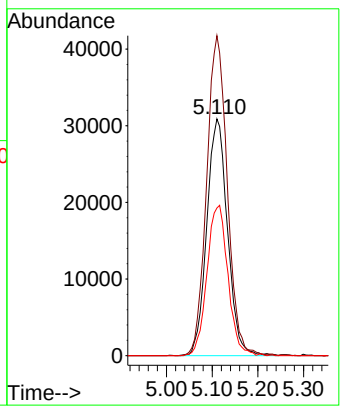




#21
trans-1,2-Dichloroethene
Concen: 19.907 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 96 Resp: 9753

Ion	Ratio	Lower	Upper
96	100		
61	135.1	104.8	157.2
98	62.3	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
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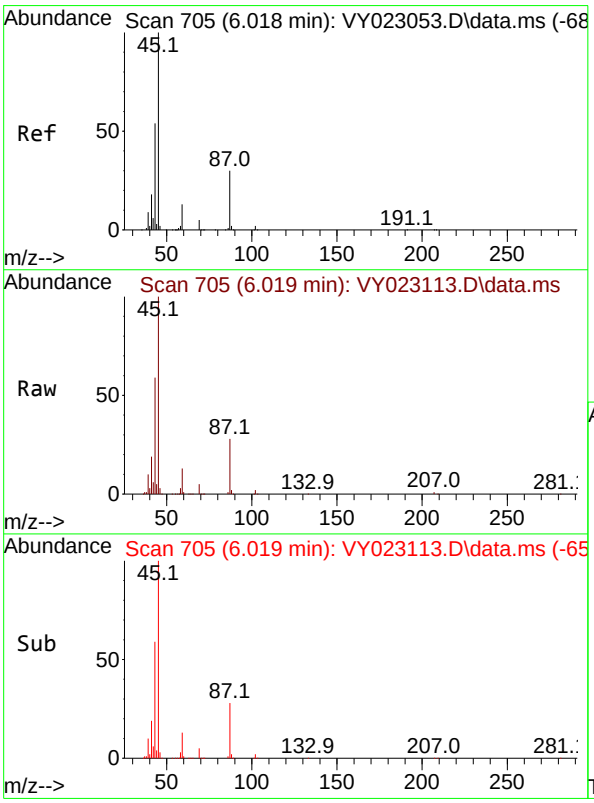
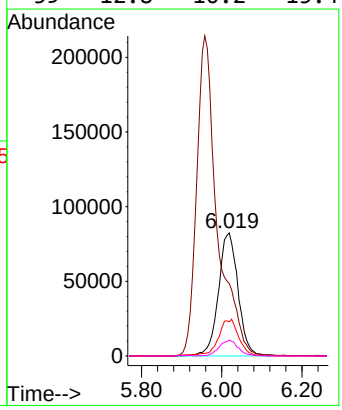
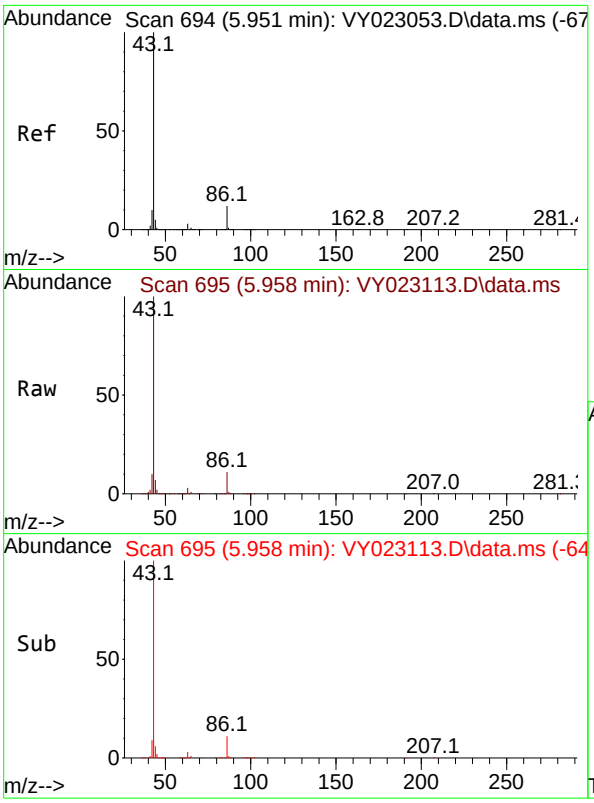


#22
Diisopropyl ether
Concen: 20.129 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 45 Resp: 280592

Ion	Ratio	Lower	Upper
45	100		
43	58.6	43.4	65.0
87	27.7	24.4	36.6
59	12.8	10.2	15.4





#23
Vinyl Acetate
Concen: 99.534 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 76718

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
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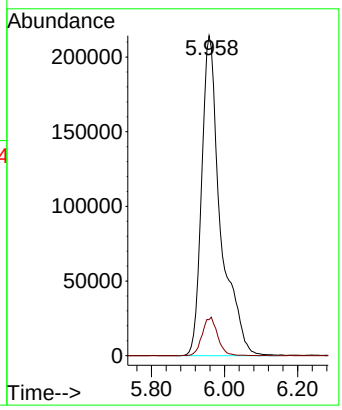
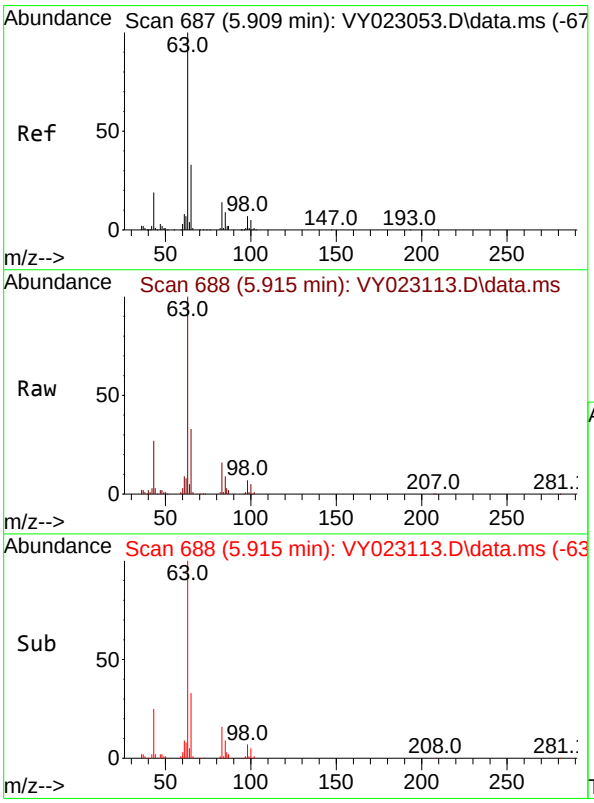
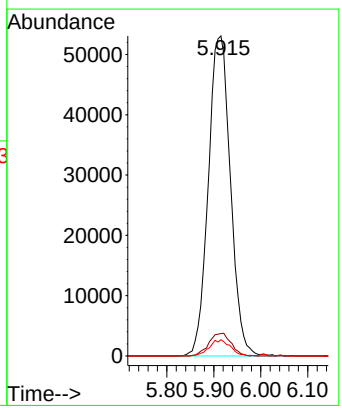


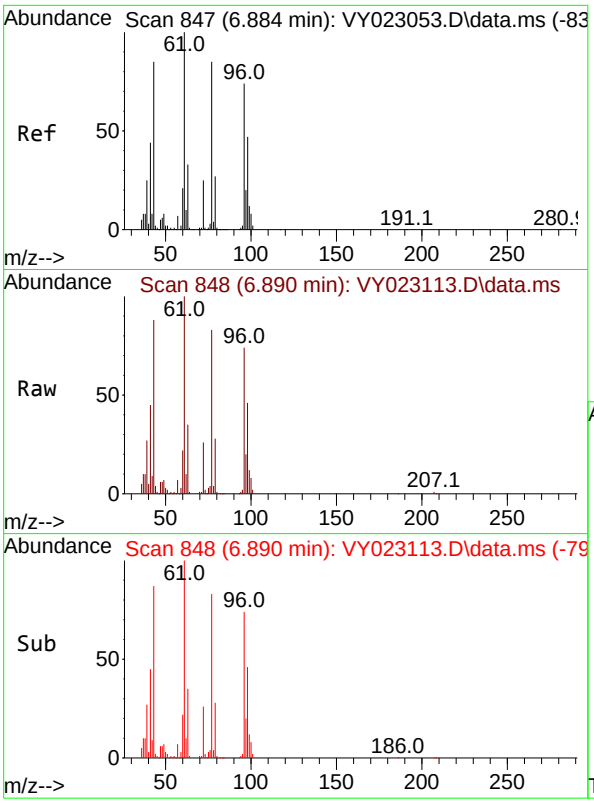


#24
1,1-Dichloroethane
Concen: 20.377 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 63 Resp: 173658

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	5.1	2.4	7.1





#25
2-Butanone
Concen: 105.206 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 13365

Ion	Ratio	Lower	Upper
43	100		
72	29.3	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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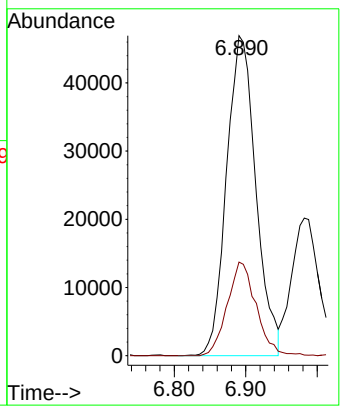
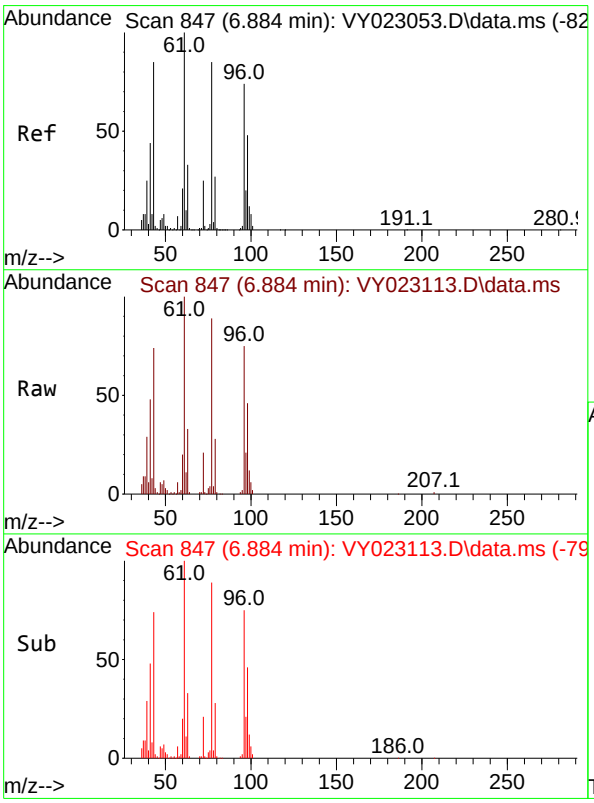
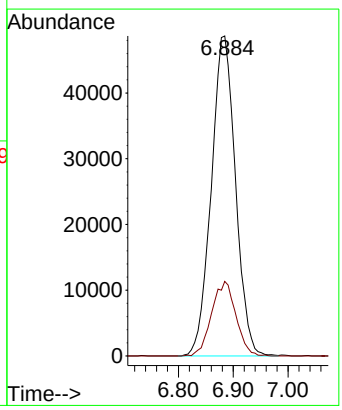


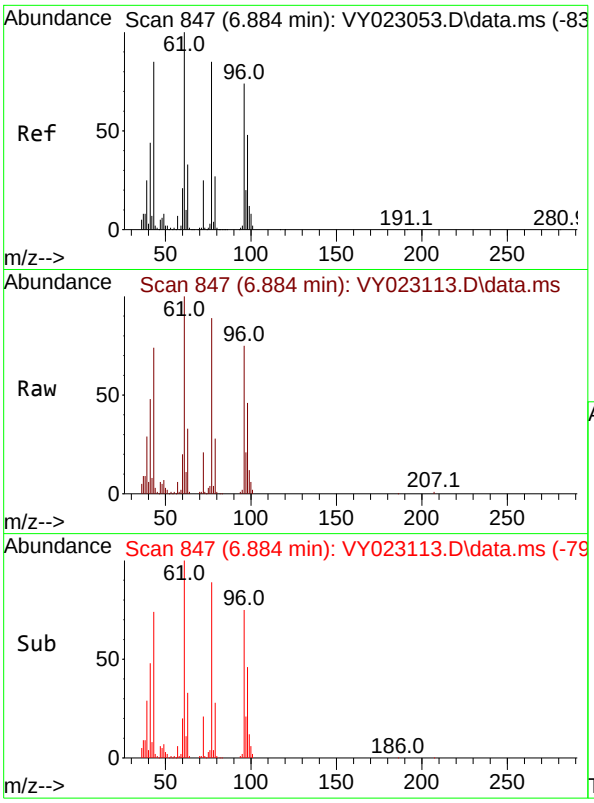


#26
2,2-Dichloropropane
Concen: 20.319 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 77 Resp: 149423

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 20.058 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 96 Resp: 11360

Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	278.6
98	61.6	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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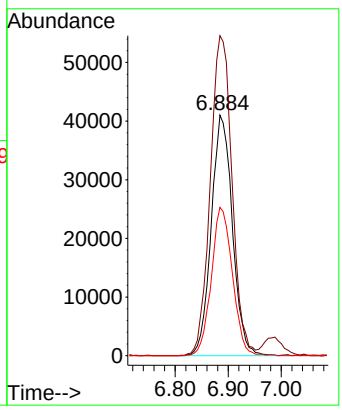
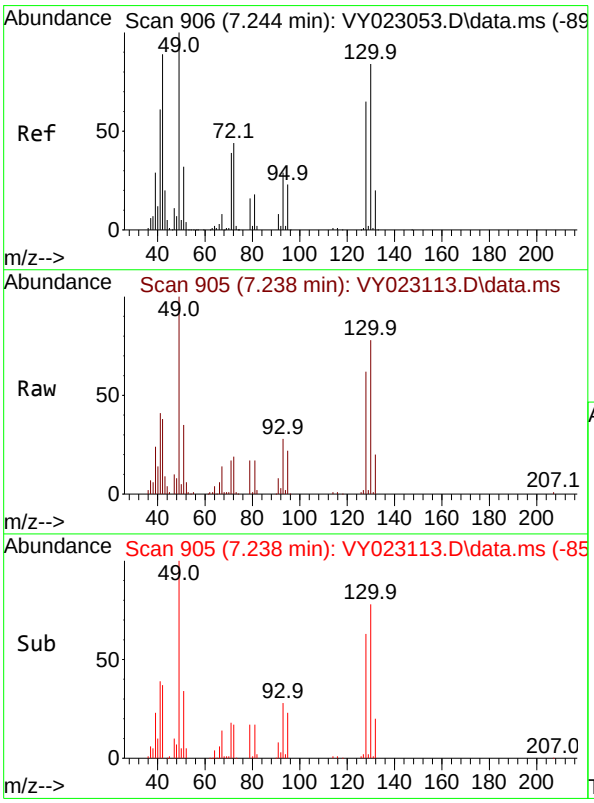
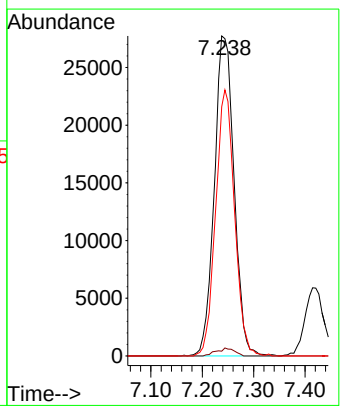


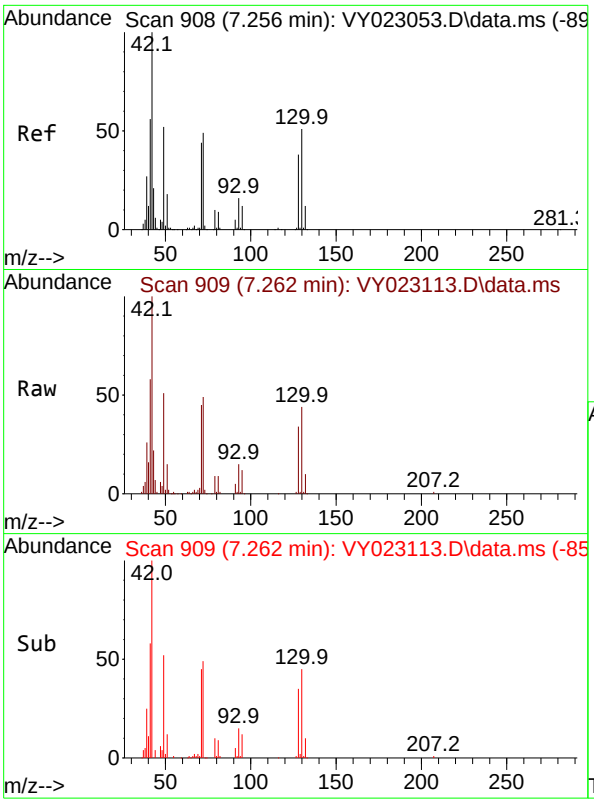


#28
Bromochloromethane
Concen: 21.919 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 49 Resp: 74111

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	79.7	66.4	99.6

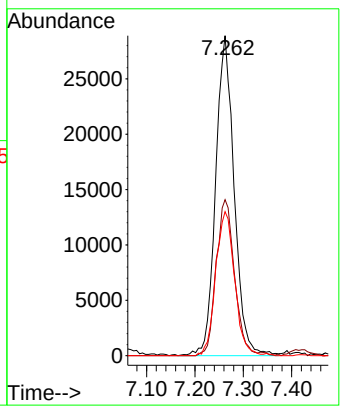




#29
Tetrahydrofuran
Concen: 97.884 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 42 Resp: 7708

Ion	Ratio	Lower	Upper
42	100		
72	48.1	39.4	59.2
71	45.7	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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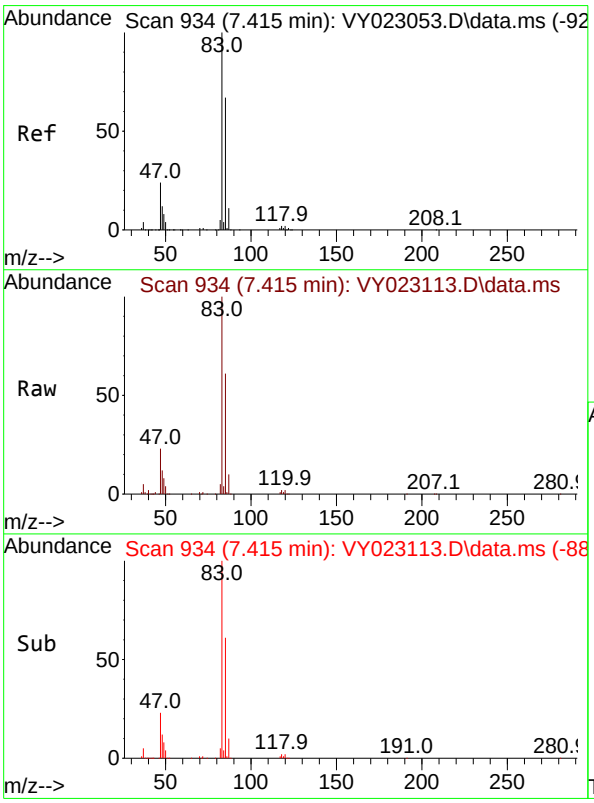
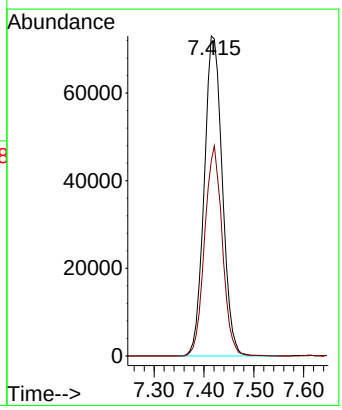
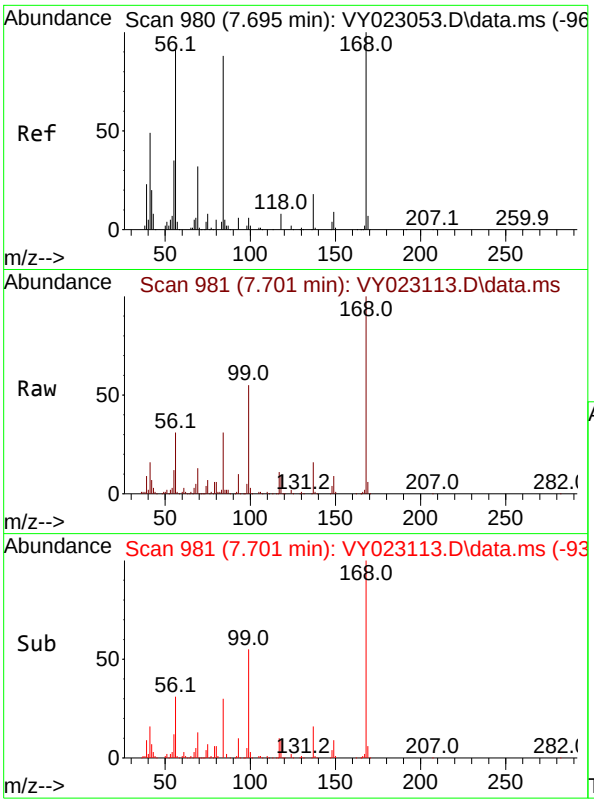


#30
Chloroform
Concen: 20.909 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 83 Resp: 183779

Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.8	80.8





#31
Cyclohexane
Concen: 18.902 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 56 Resp: 15180

Ion	Ratio	Lower	Upper
56	100		
69	41.4	28.2	42.2
84	98.5	76.6	114.8

Instrument :
MSVOA_Y
ClientSampleId :
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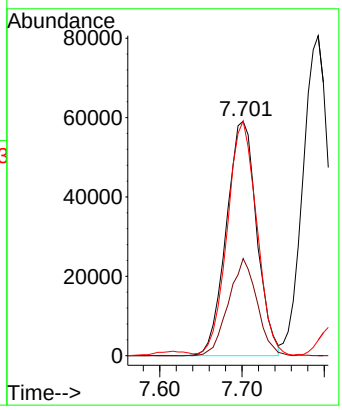
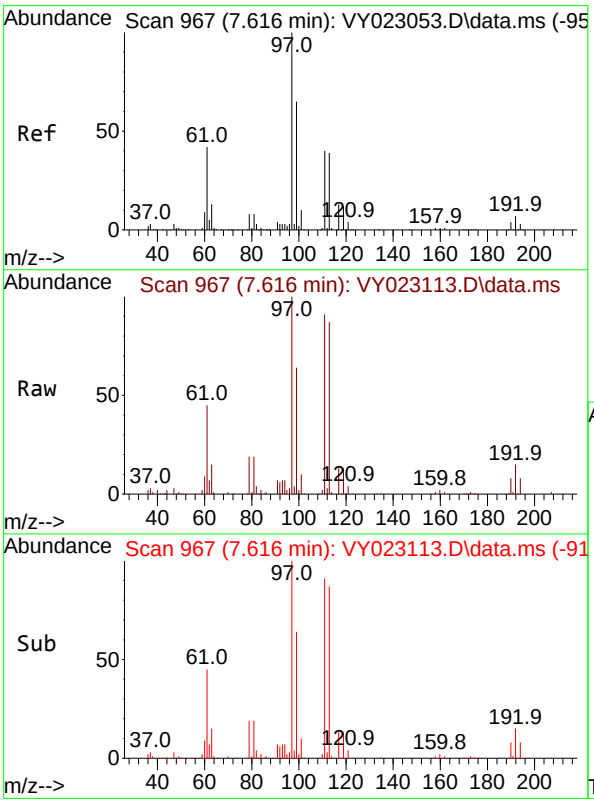
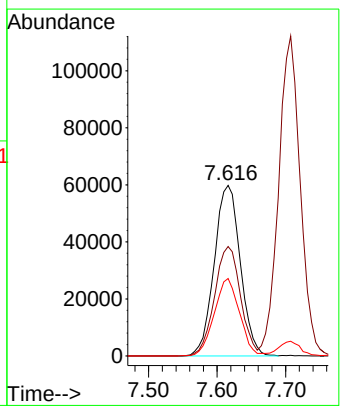


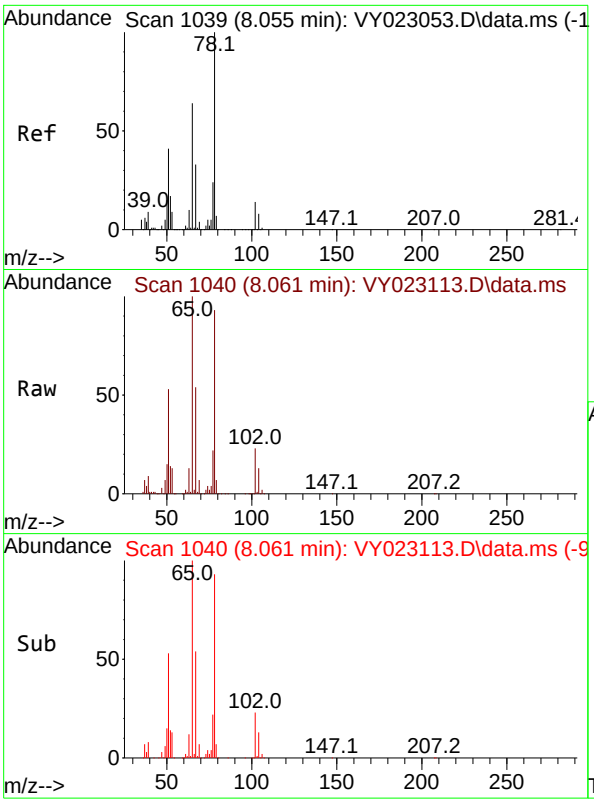


#32
1,1,1-Trichloroethane
Concen: 20.254 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 97 Resp: 157956

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.6	77.4
61	43.9	34.2	51.2

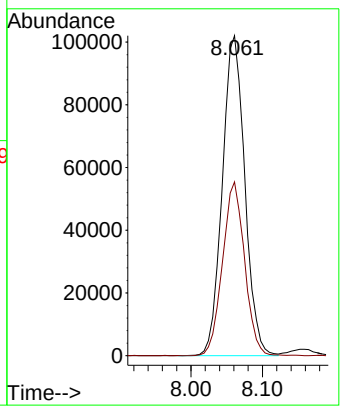




#33
1,2-Dichloroethane-d4
Concen: 51.692 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 65 Resp: 22288

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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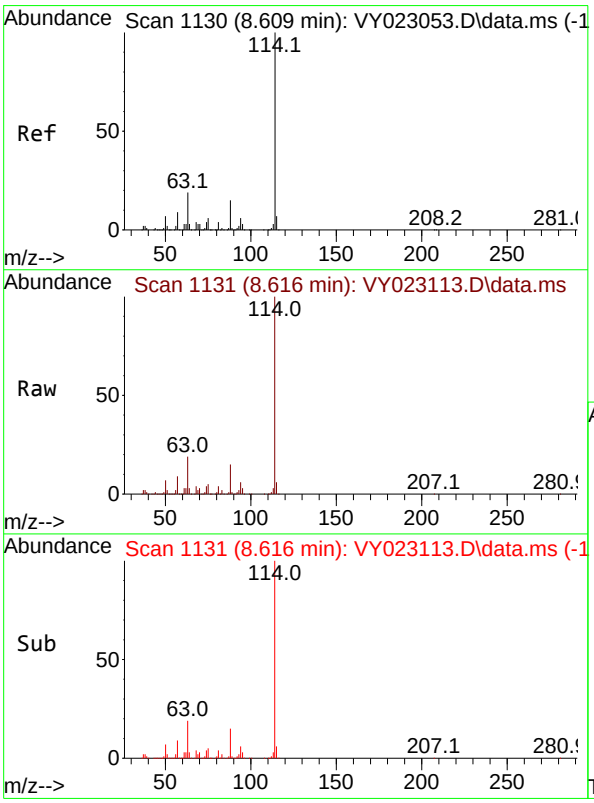
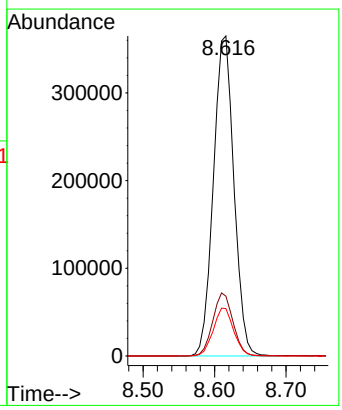
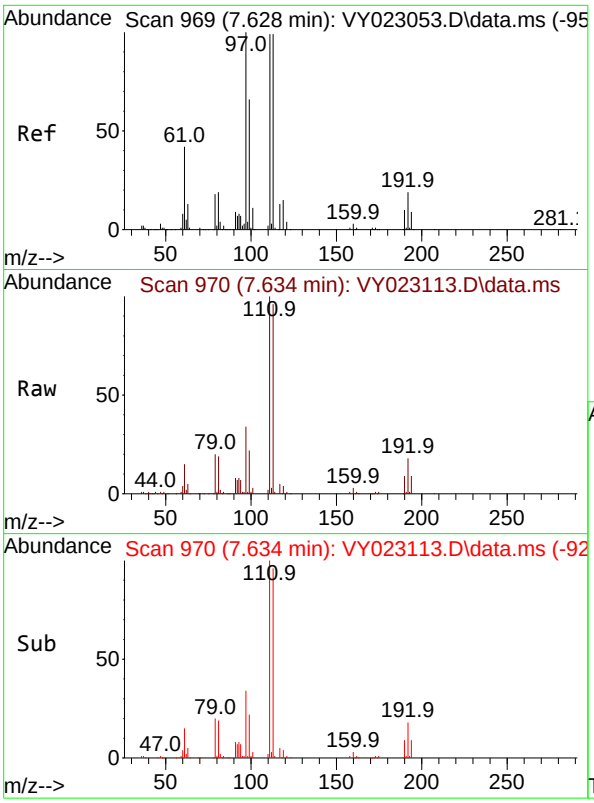


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:114 Resp: 727202

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	14.8	0.0	30.0





#35
Dibromofluoromethane
Concen: 49.314 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:113 Resp: 21458

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	19.7	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
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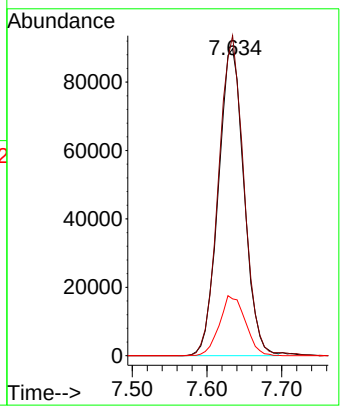
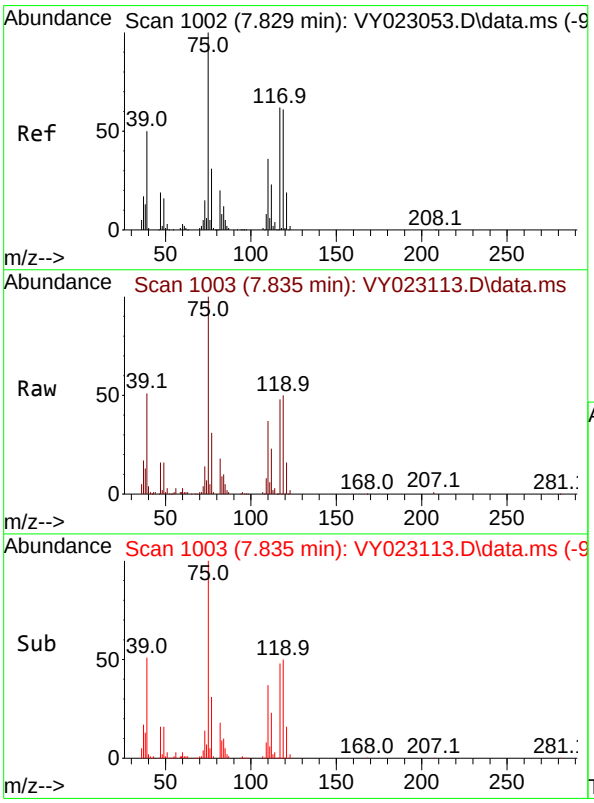
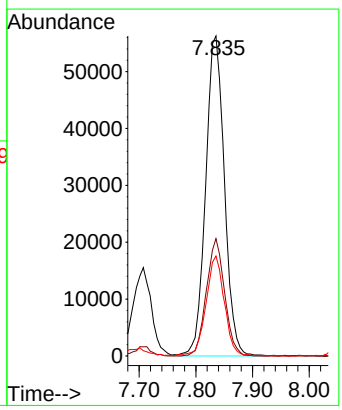


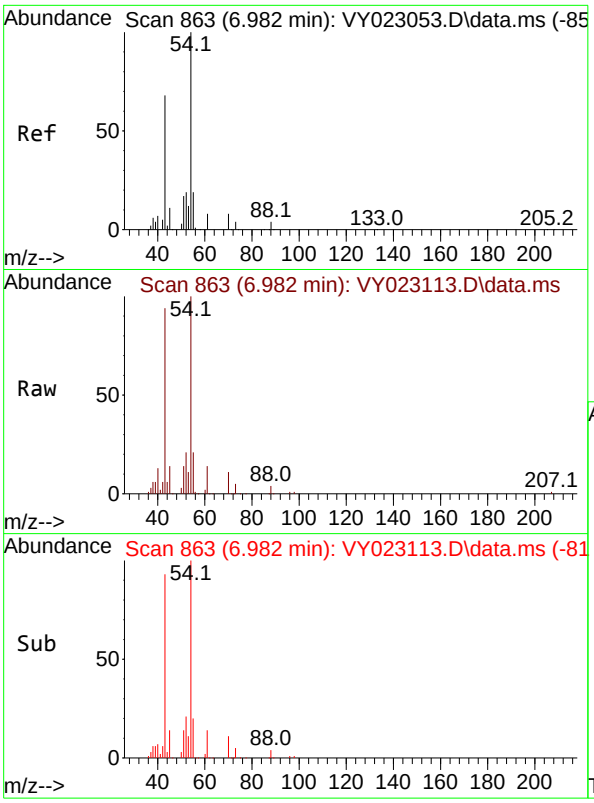


#36
1,1-Dichloropropene
Concen: 20.008 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 129384

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	30.5	24.6	37.0





#37
Ethyl Acetate
Concen: 20.428 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 5549

Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.9	17.9
70	10.5	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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Reviewed By :Semsettin Yesilyurt 08/19/2025
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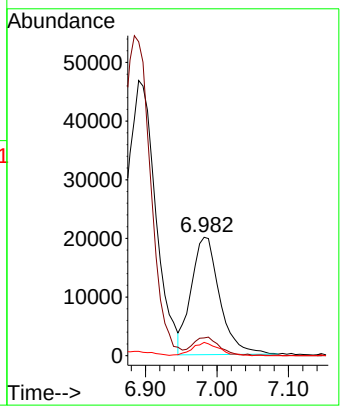
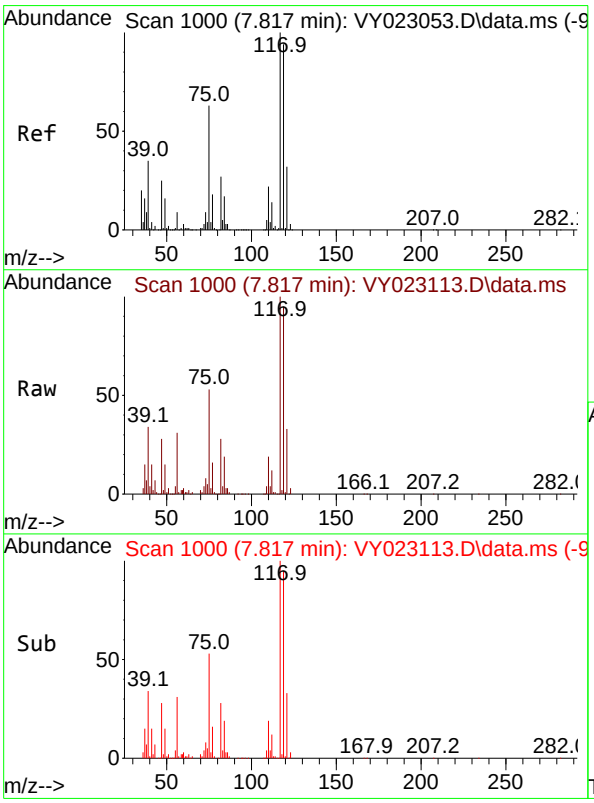
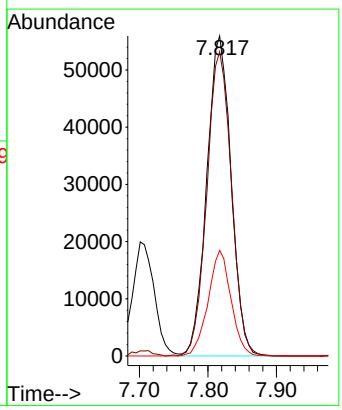


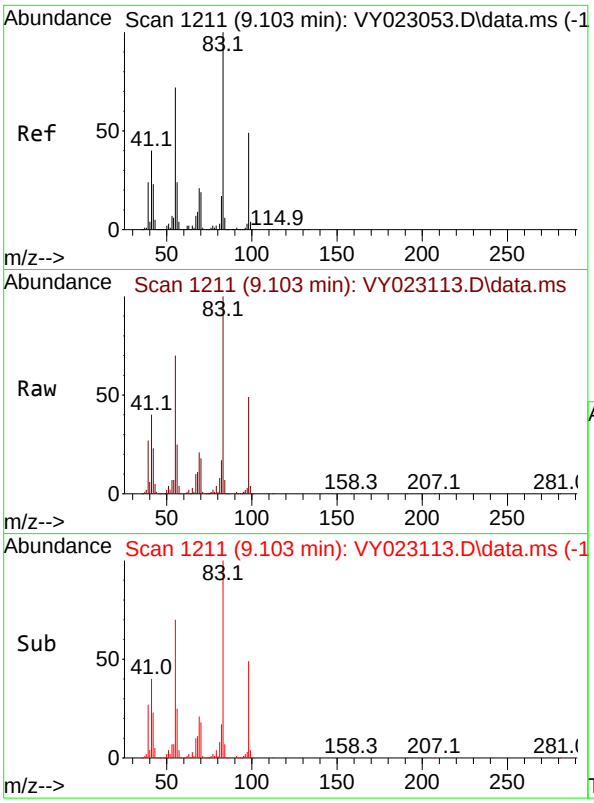


#38
Carbon Tetrachloride
Concen: 19.630 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:117 Resp: 137873

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.6	113.4
121	33.0	25.8	38.8





#39
Methylcyclohexane
Concen: 18.705 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 83 Resp: 15928

Ion	Ratio	Lower	Upper
83	100		
55	70.4	57.6	86.4
98	49.3	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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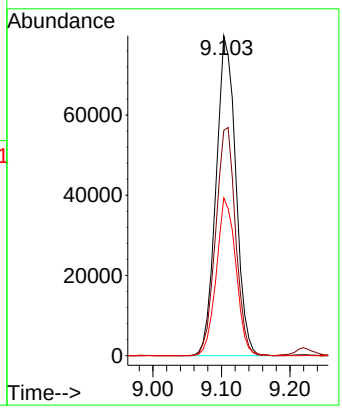
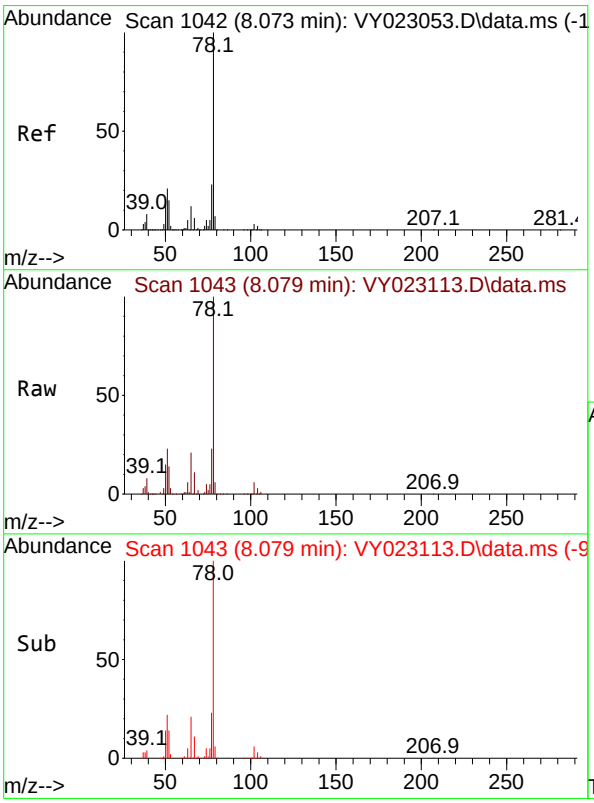
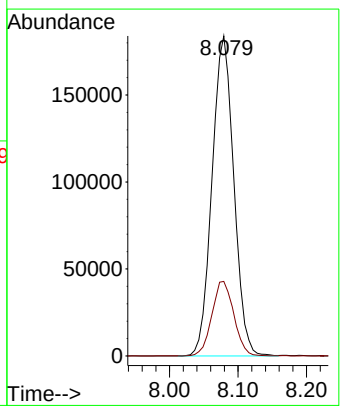


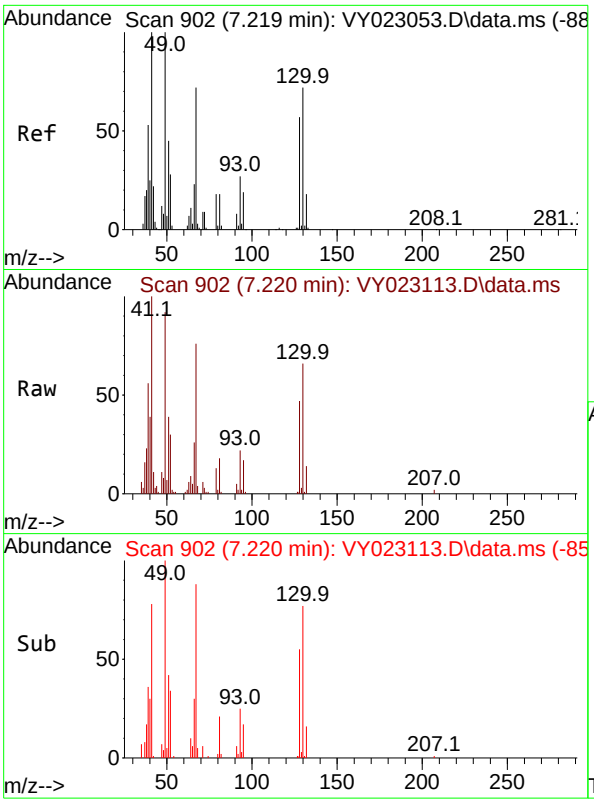


#40
Benzene
Concen: 20.350 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 78 Resp: 405603

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0

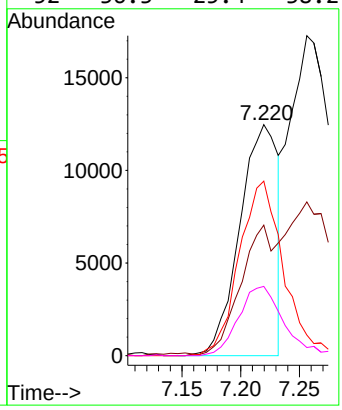




#41
Methacrylonitrile
Concen: 17.956 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 41 Resp: 2815

Ion	Ratio	Lower	Upper
41	100		
39	45.4	43.4	65.2
67	87.7	63.6	95.4
52	36.3	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
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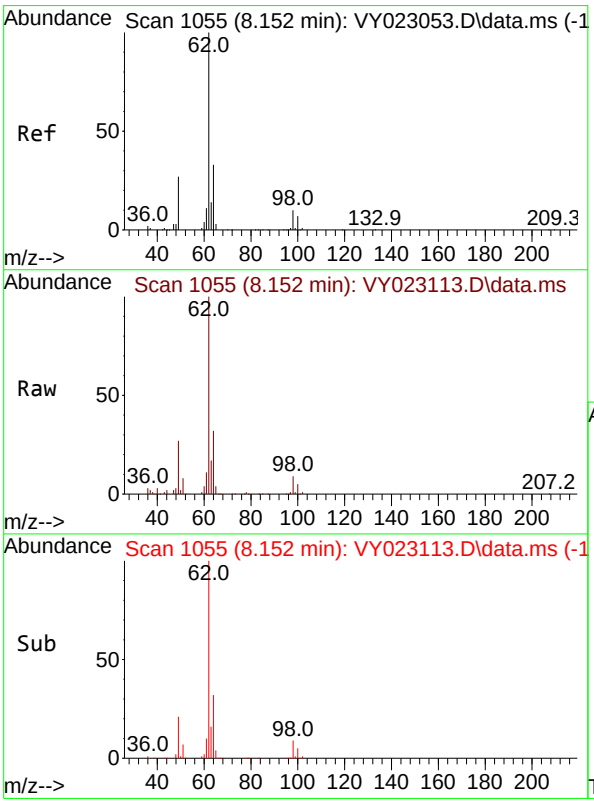
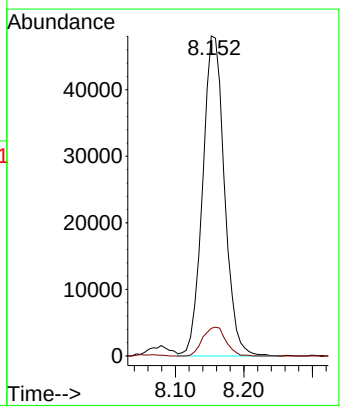
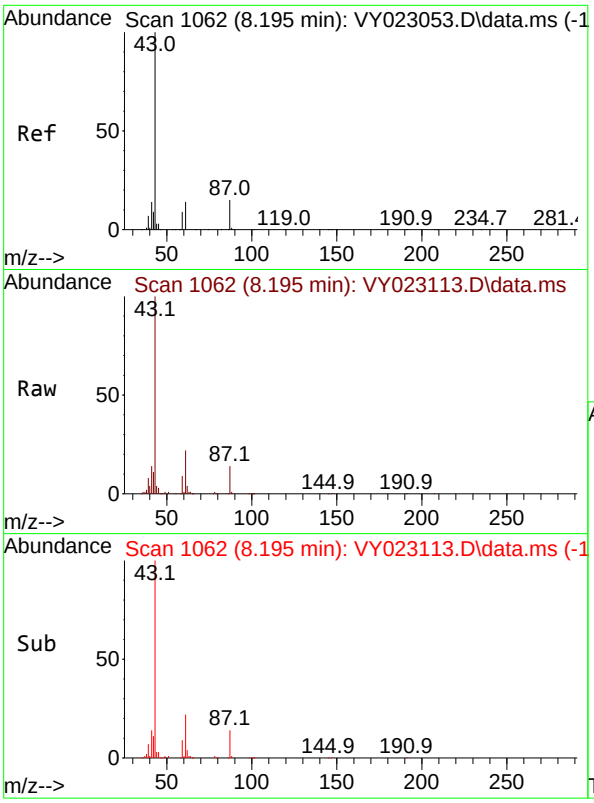


#42
1,2-Dichloroethane
Concen: 20.575 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 62 Resp: 106658

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	20.6

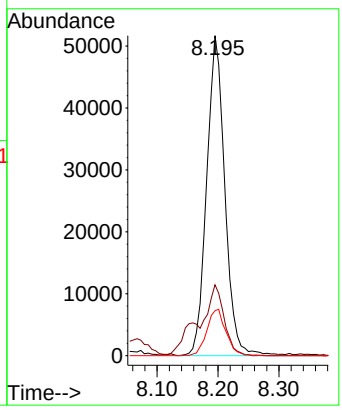




#43
Isopropyl Acetate
Concen: 19.551 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 10734

Ion	Ratio	Lower	Upper
43	100		
61	20.7	16.4	24.6
87	15.2	11.8	17.6



Instrument :
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ClientSampleId :
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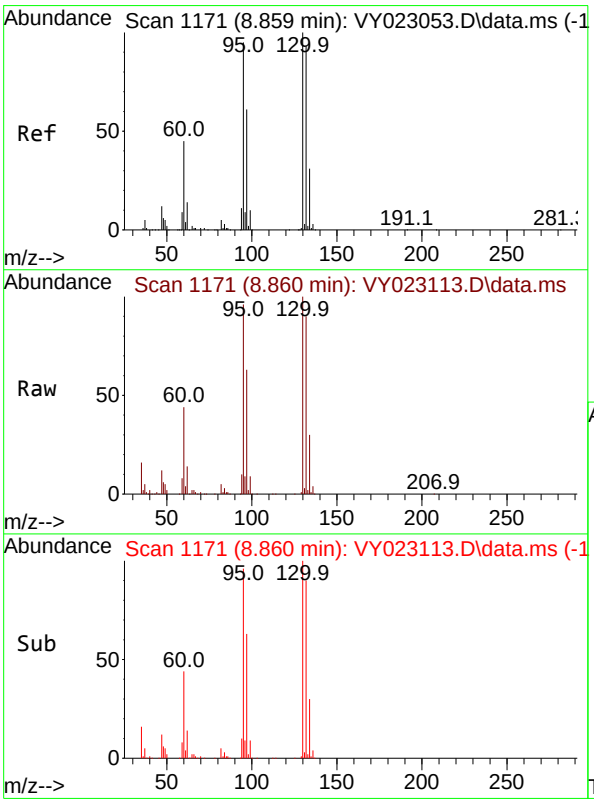
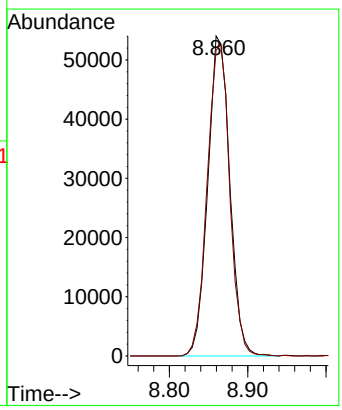
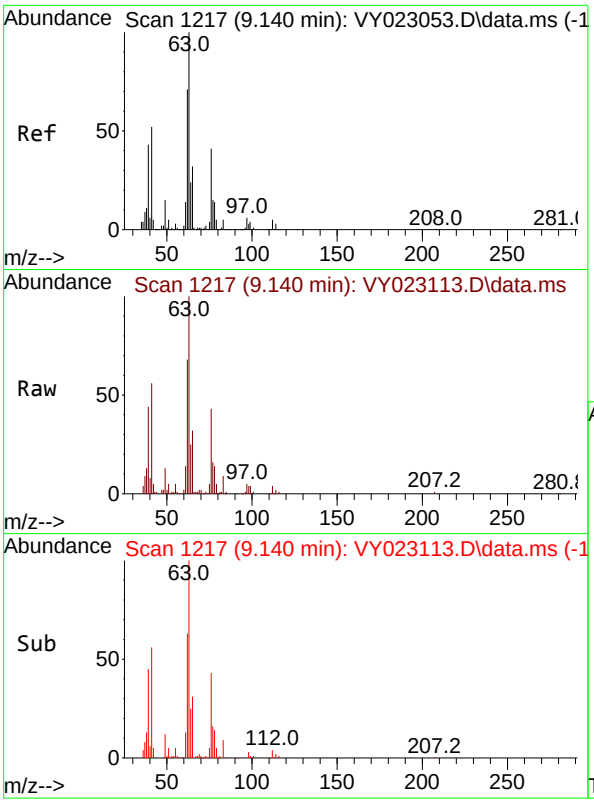


#44
Trichloroethene
Concen: 20.459 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:130 Resp: 105377

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	190.2

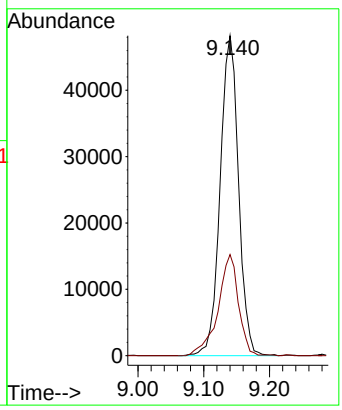




#45
1,2-Dichloropropane
Concen: 20.451 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 63 Resp: 9378

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9



Instrument :
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ClientSampleId :
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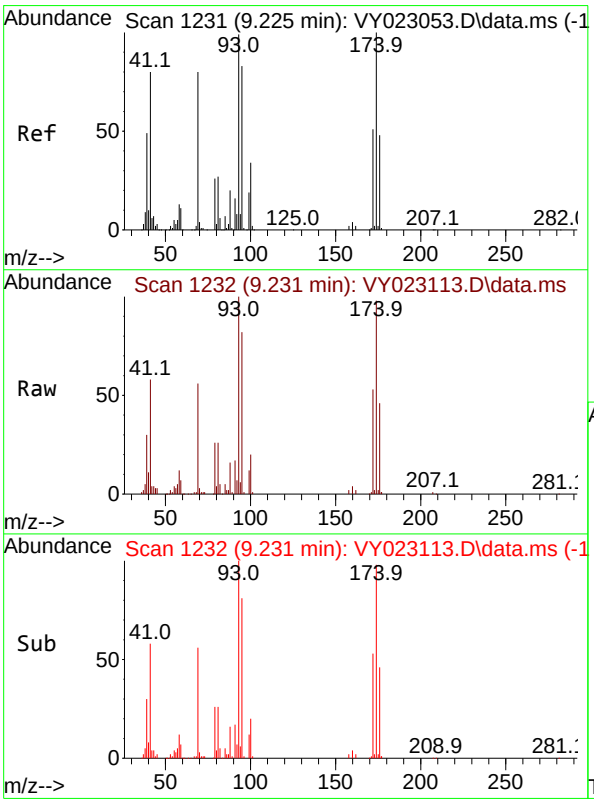
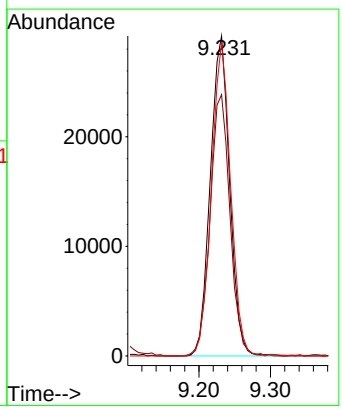
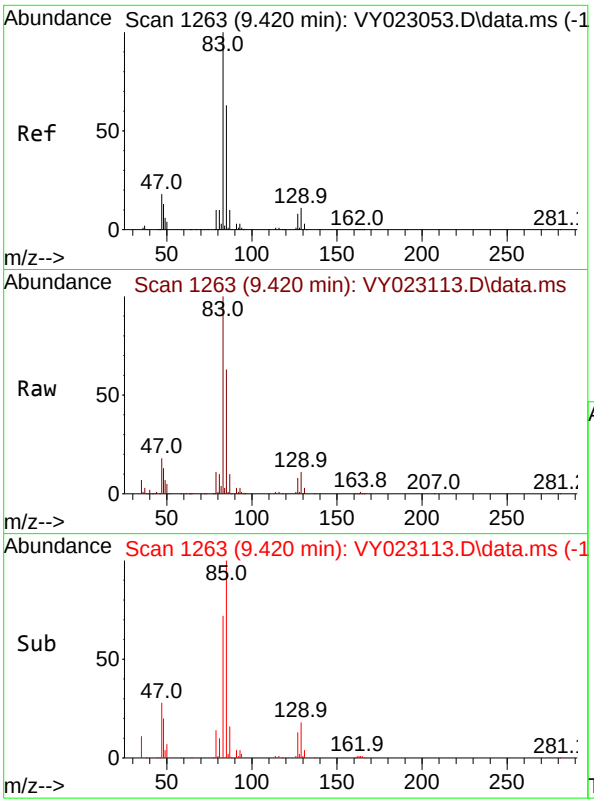


#46
Dibromomethane
Concen: 20.819 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 93 Resp: 54800

Ion	Ratio	Lower	Upper
93	100		
95	83.6	66.5	99.7
174	97.3	81.8	122.8

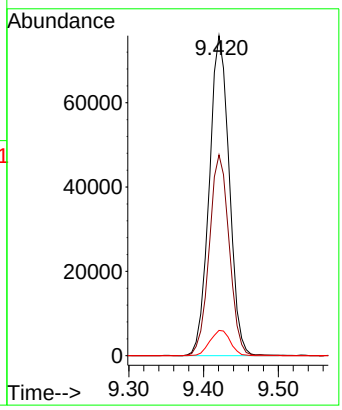




#47
Bromodichloromethane
Concen: 20.819 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 83 Resp: 14100

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.2	75.4
127	7.9	6.6	10.0



Instrument :
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ClientSampleId :
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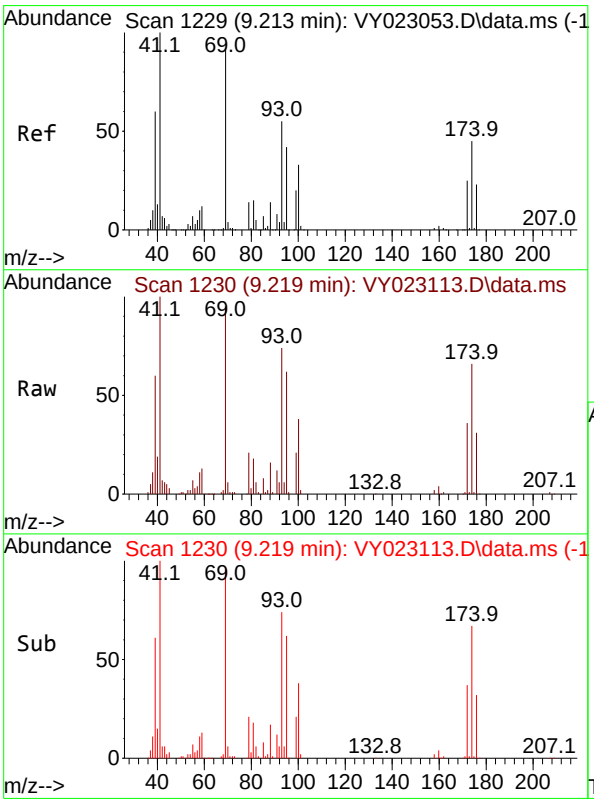
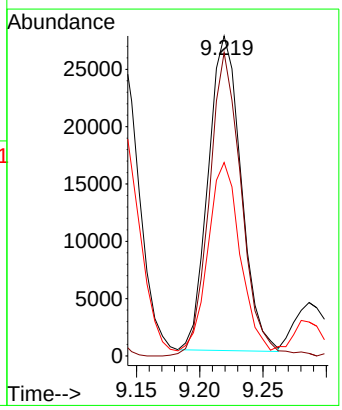
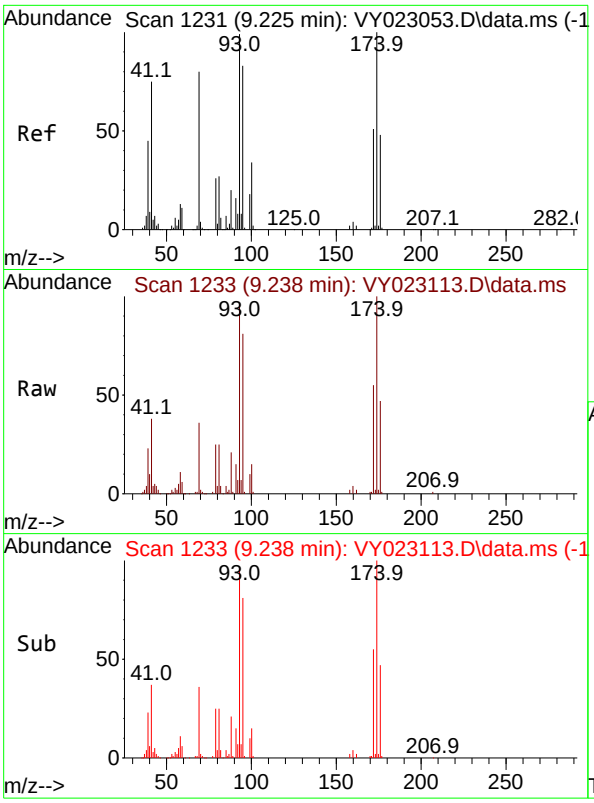


#48
Methyl methacrylate
Concen: 18.864 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 41 Resp: 49562

Ion	Ratio	Lower	Upper
41	100		
69	94.5	73.2	109.8
39	58.3	47.0	70.4





#49
1,4-Dioxane
Concen: 400.796 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 88 Resp: 1237

Ion	Ratio	Lower	Upper
88	100		
43	26.8	24.3	36.5
58	70.5	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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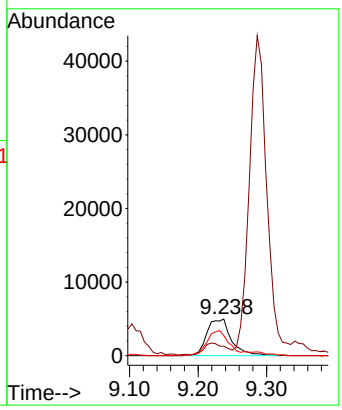
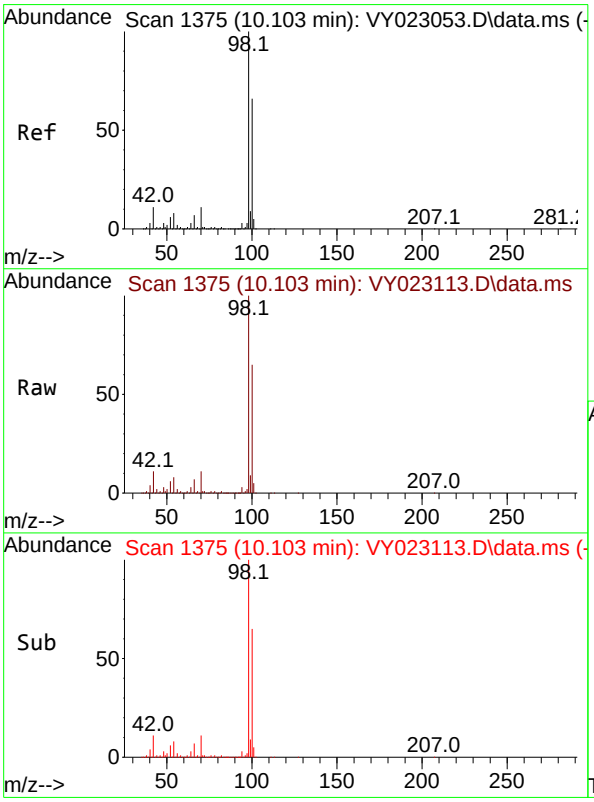
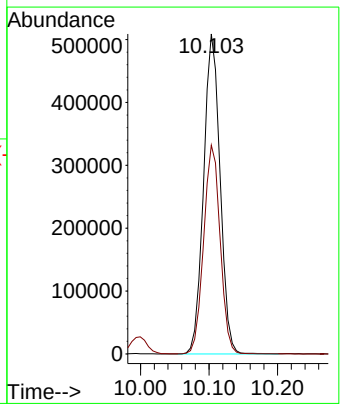


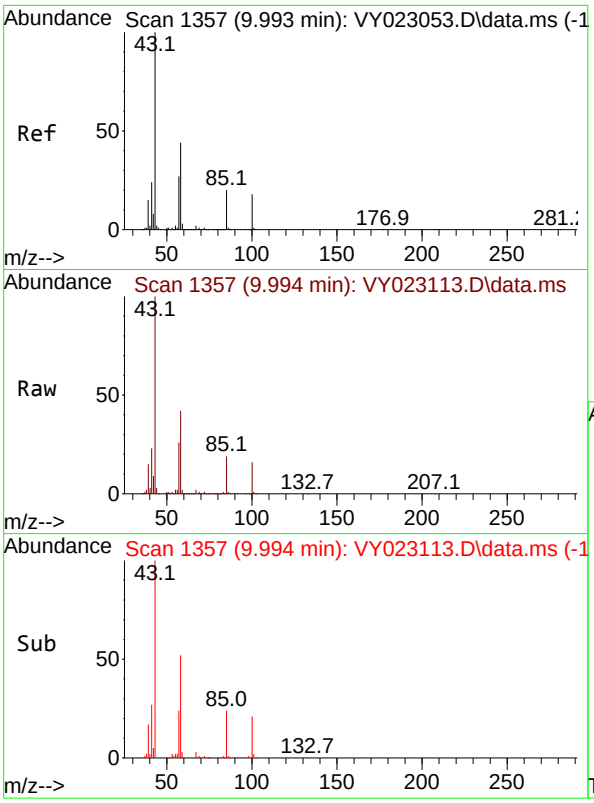


#50
Toluene-d8
Concen: 50.165 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 98 Resp: 852746

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5

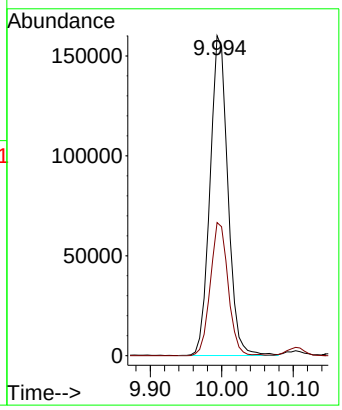




#51
4-Methyl-2-Pentanone
Concen: 97.864 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 27716

Ion	Ratio	Lower	Upper
43	100		
58	41.6	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
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Manual Integrations
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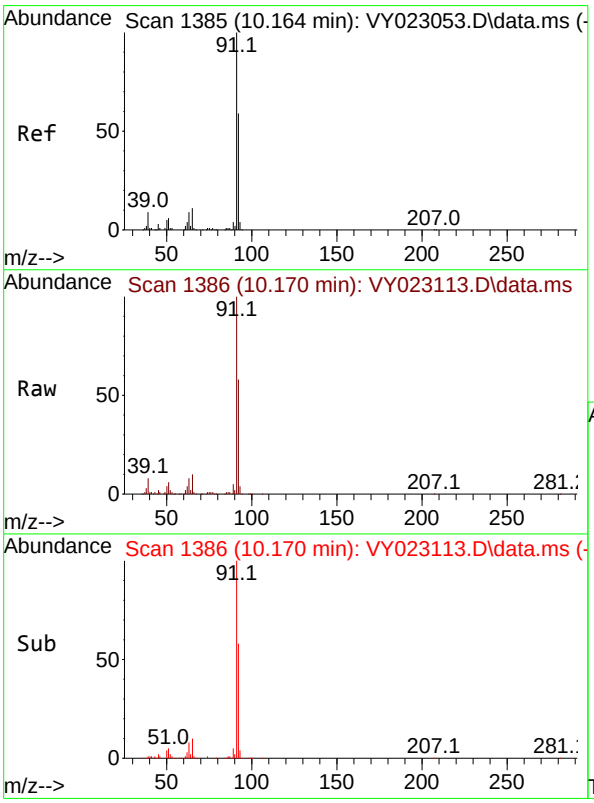
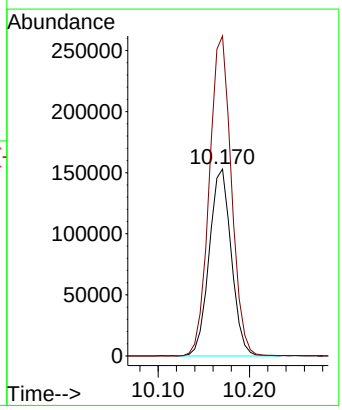
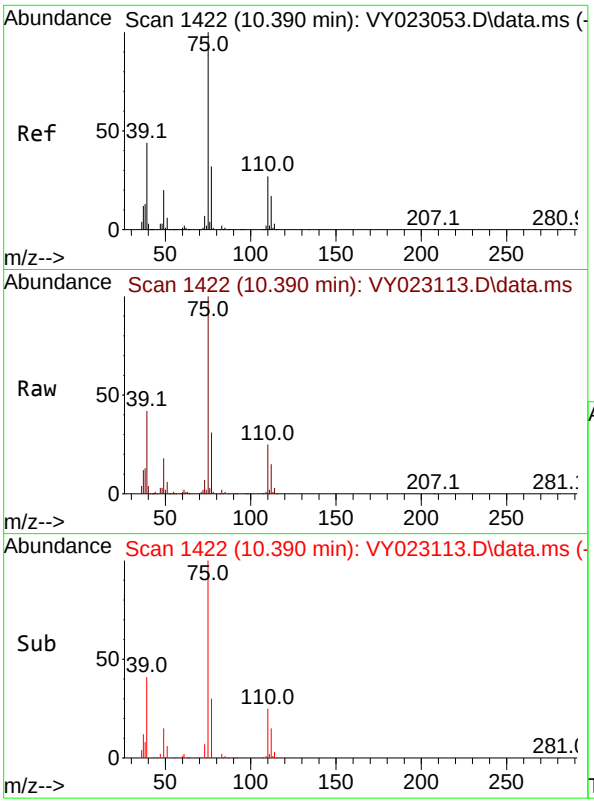


#52
Toluene
Concen: 20.201 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 92 Resp: 255717

Ion	Ratio	Lower	Upper
92	100		
91	172.1	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 19.890 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 12199

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
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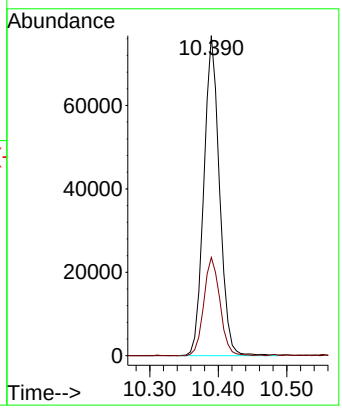
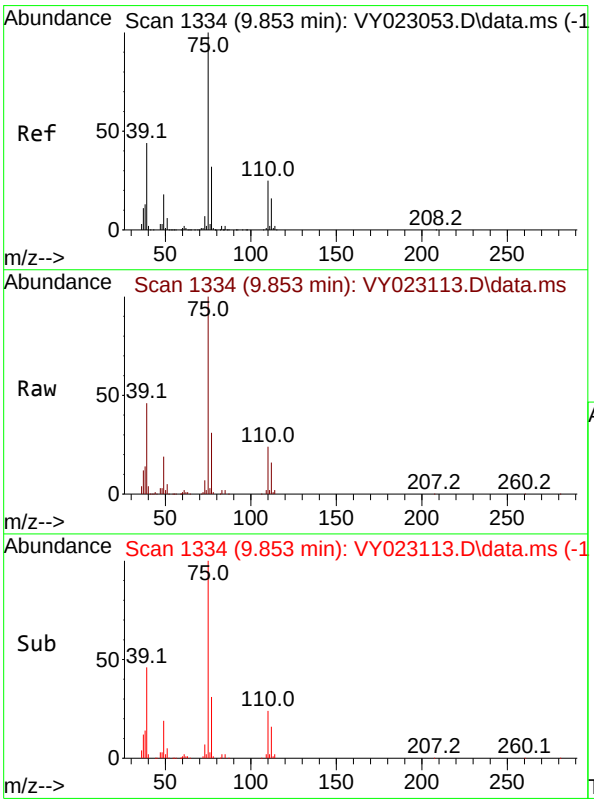
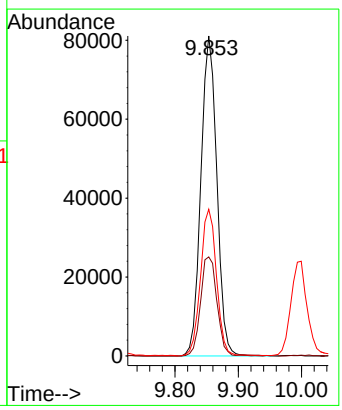


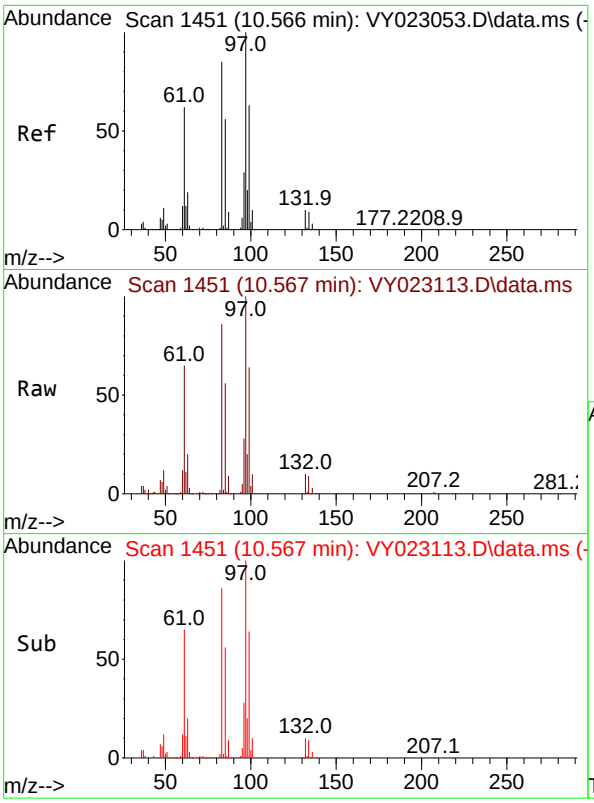


#54
cis-1,3-Dichloropropene
Concen: 19.623 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 142316

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.0
39	45.9	35.6	53.4

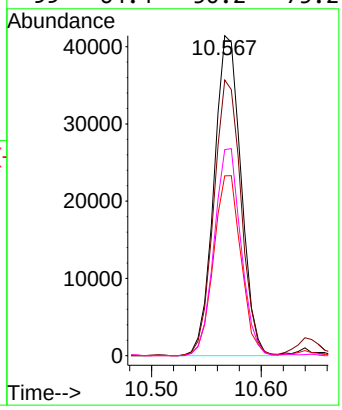




#55
1,1,2-Trichloroethane
Concen: 20.174 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 97 Resp: 7105

Ion	Ratio	Lower	Upper
97	100		
83	86.2	67.7	101.5
85	56.2	44.5	66.7
99	64.4	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
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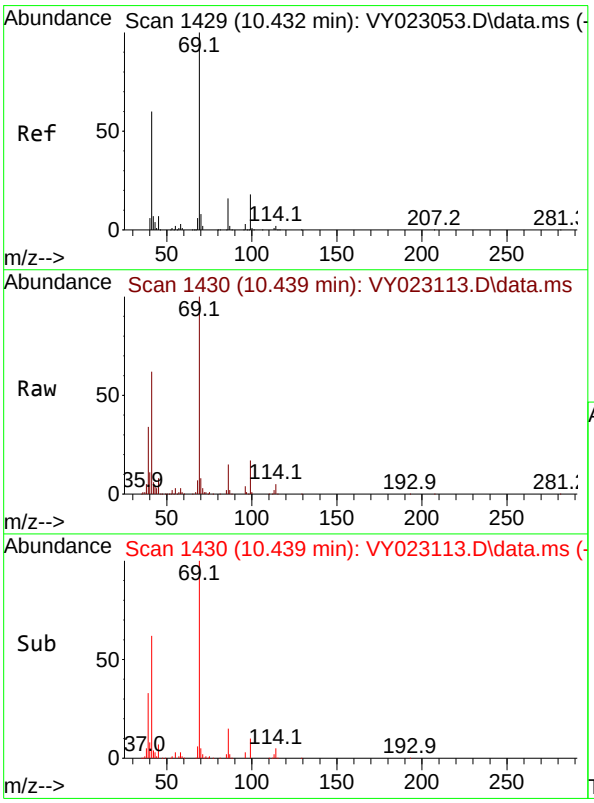
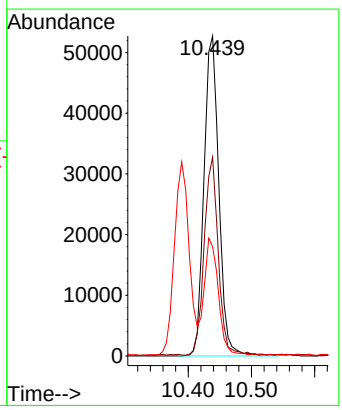
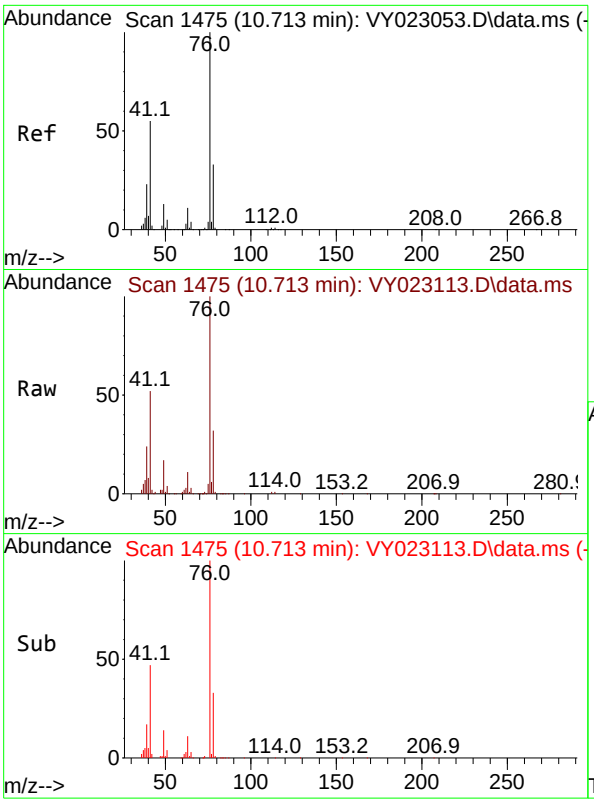


#56
Ethyl methacrylate
Concen: 19.173 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 69 Resp: 86412

Ion	Ratio	Lower	Upper
69	100		
41	59.0	48.6	72.8
39	34.9	27.0	40.4





#57
1,3-Dichloropropane
Concen: 19.846 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 76 Resp: 11854

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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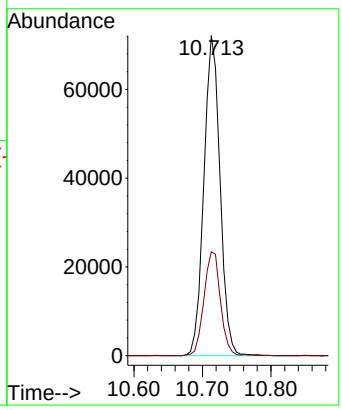
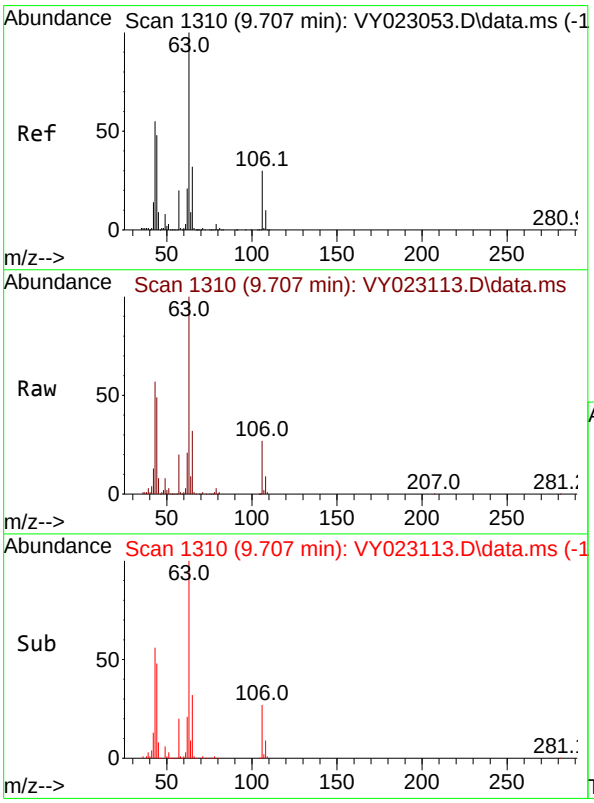
Supervised By :Mahesh Dadoda 08/19/2025

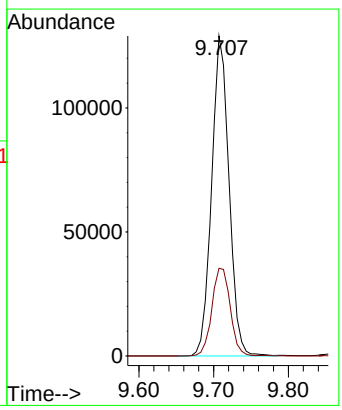


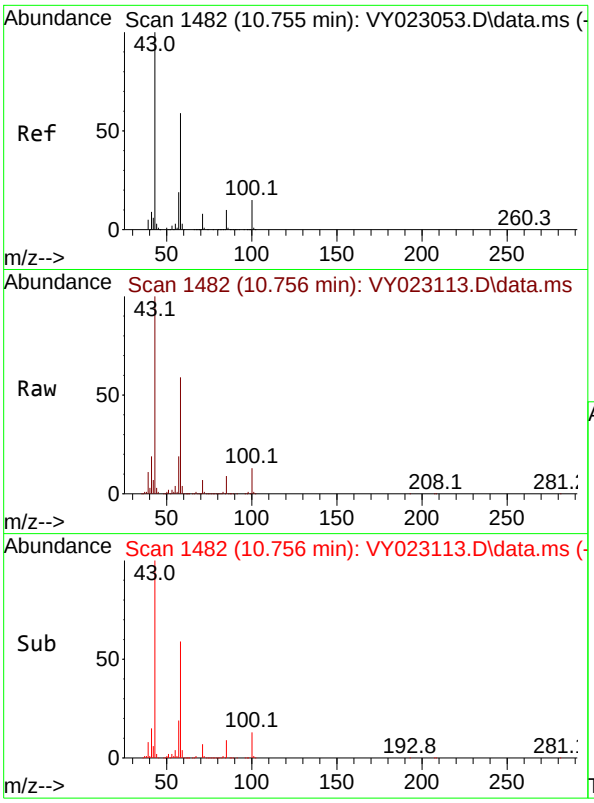


#58
2-Chloroethyl Vinyl ether
Concen: 98.106 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 63 Resp: 208567

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.2	34.8





#59
2-Hexanone
Concen: 100.277 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 19338

Ion	Ratio	Lower	Upper
43	100		
58	58.4	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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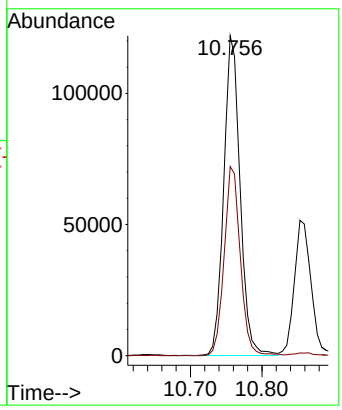
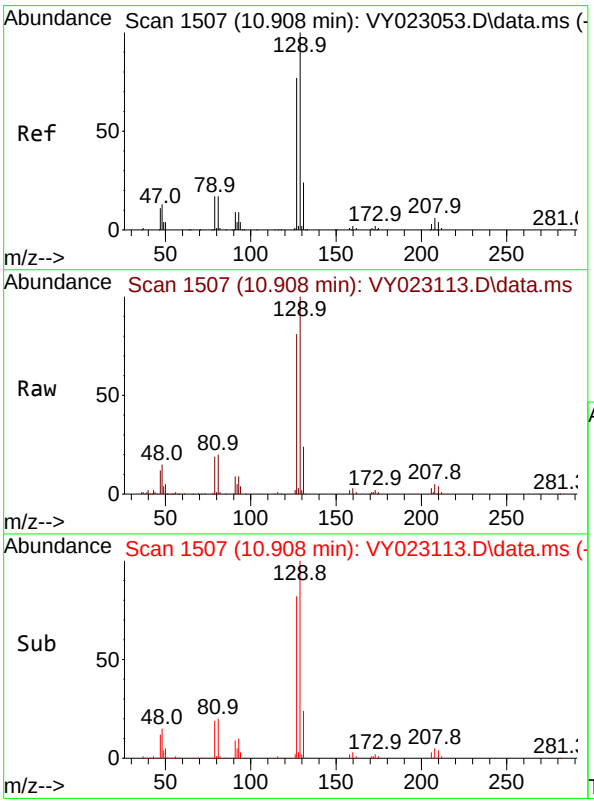
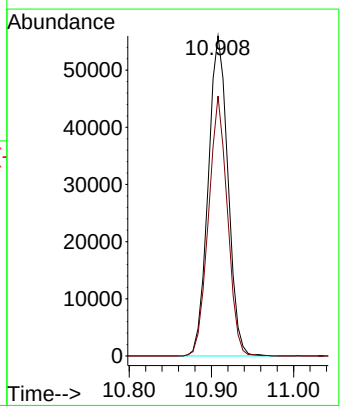


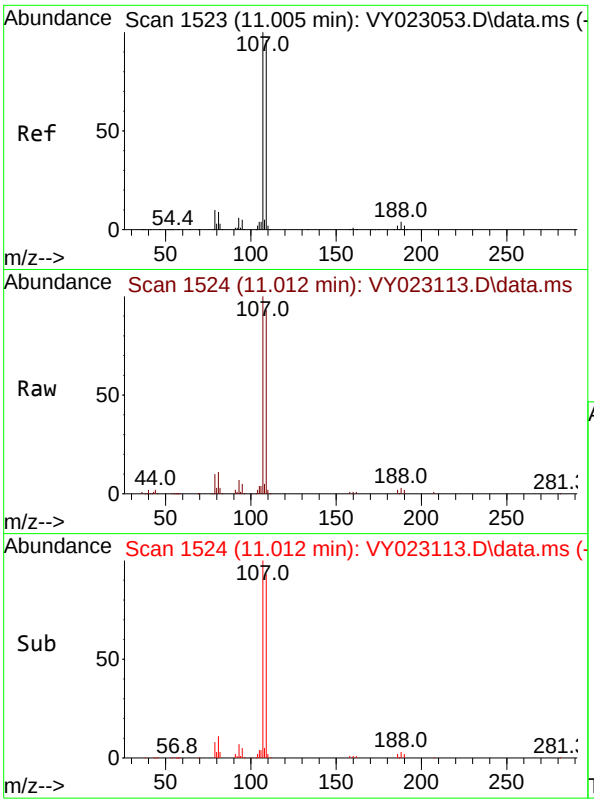


#60
Dibromochloromethane
Concen: 20.091 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:129 Resp: 93374

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.5	115.5





#61
1,2-Dibromoethane
Concen: 20.125 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:107 Resp: 6662

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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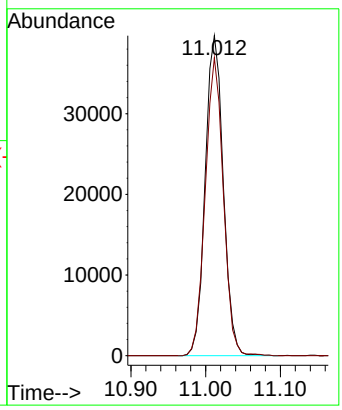
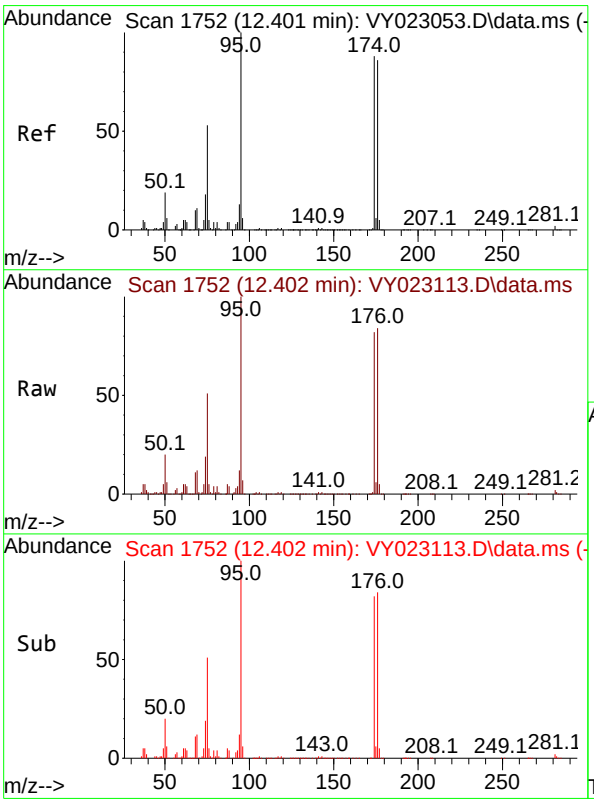
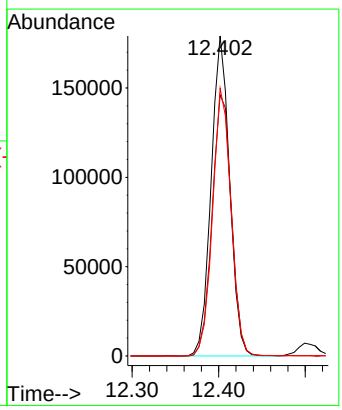


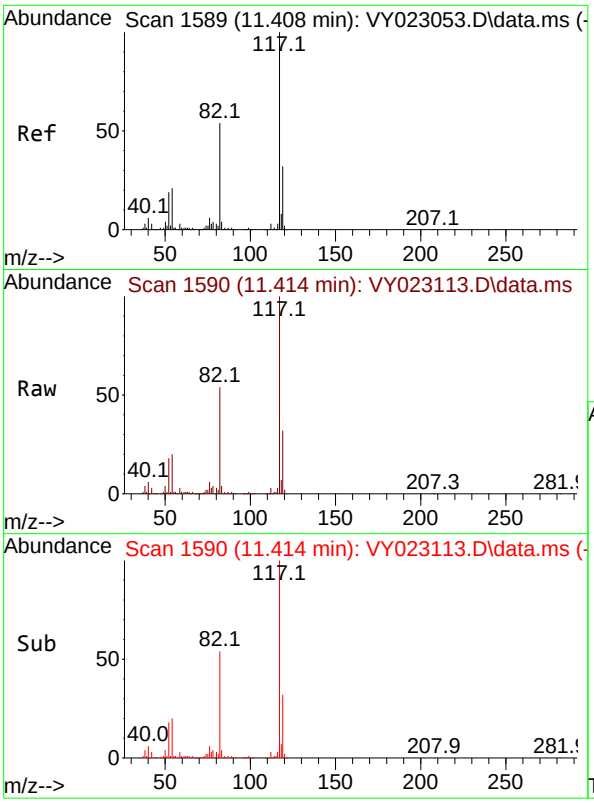


#62
4-Bromofluorobenzene
Concen: 48.547 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 95 Resp: 265399

Ion	Ratio	Lower	Upper
95	100		
174	85.3	0.0	171.6
176	83.8	0.0	167.6

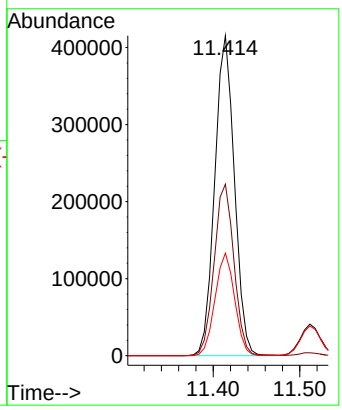




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:117 Resp: 65445

Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.0
119	32.1	25.6	38.4



Instrument :
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ClientSampleId :
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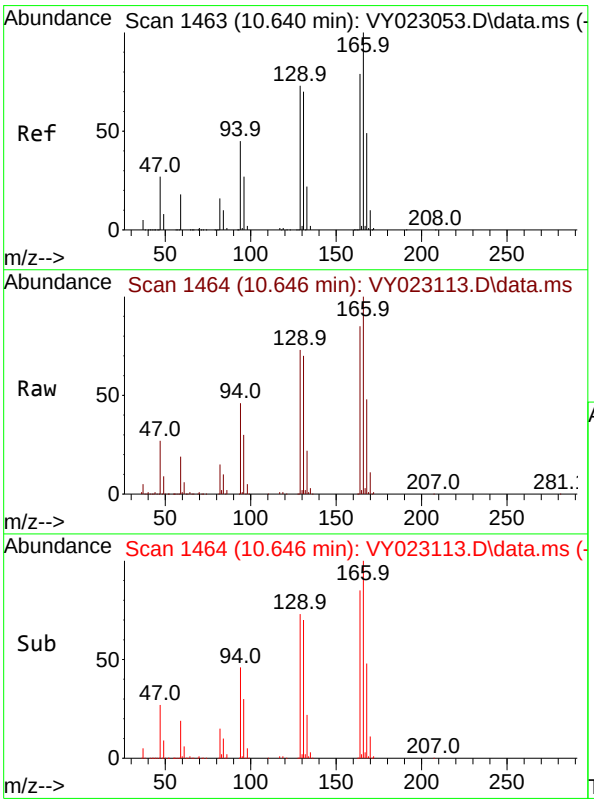
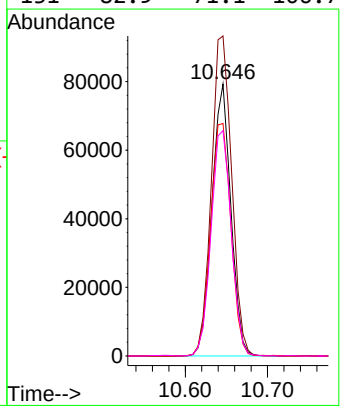
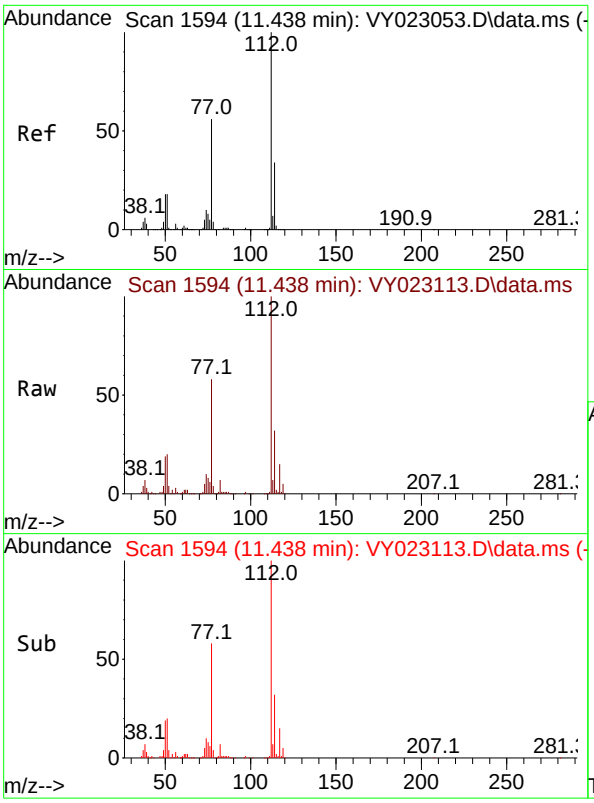


#64
Tetrachloroethene
Concen: 21.773 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:164 Resp: 127239

Ion	Ratio	Lower	Upper
164	100		
166	117.7	101.1	151.7
129	85.5	74.0	111.0
131	82.9	71.1	106.7

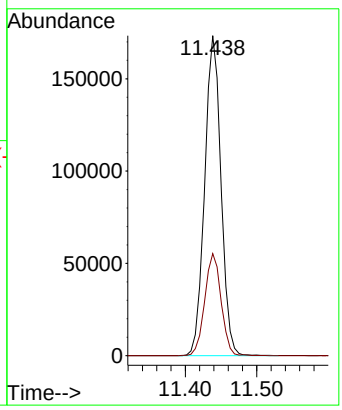




#65
Chlorobenzene
Concen: 19.453 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:112 Resp: 27461

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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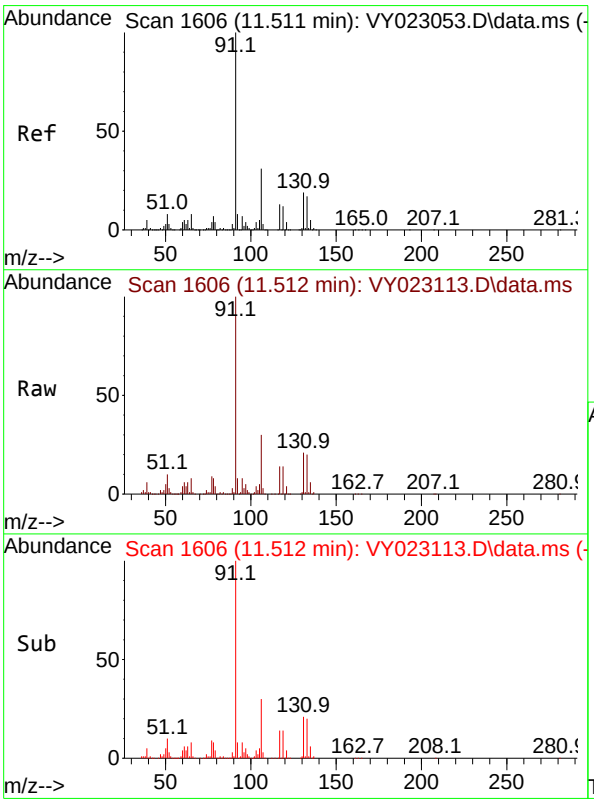
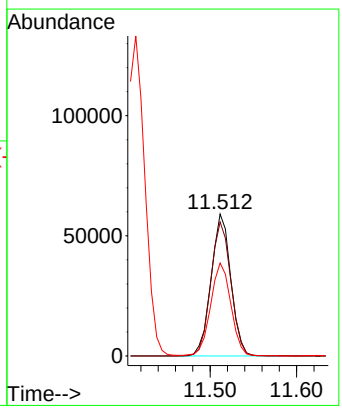
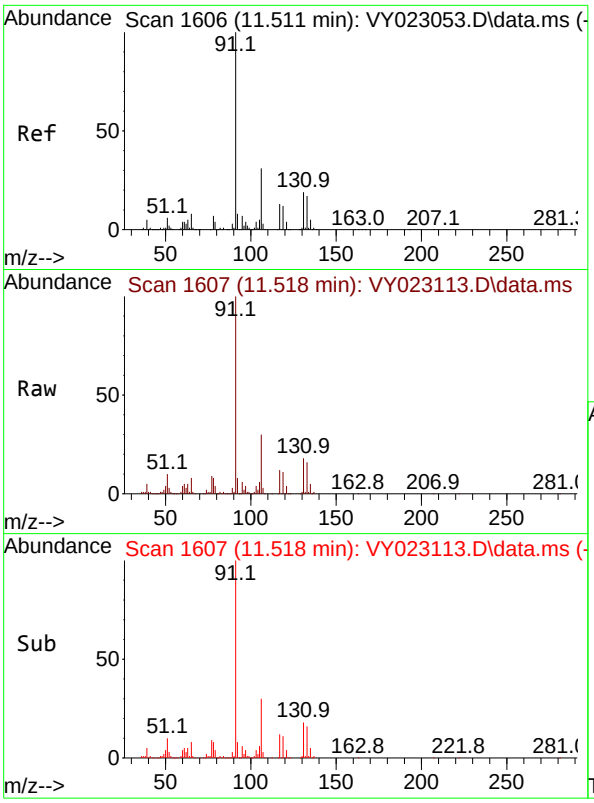


#66
1,1,1,2-Tetrachloroethane
Concen: 19.466 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:131 Resp: 93262

Ion	Ratio	Lower	Upper
131	100		
133	96.5	46.9	140.6
119	67.4	33.2	99.6

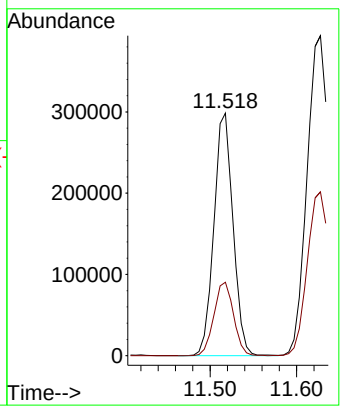




#67
Ethyl Benzene
Concen: 18.808 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 45690

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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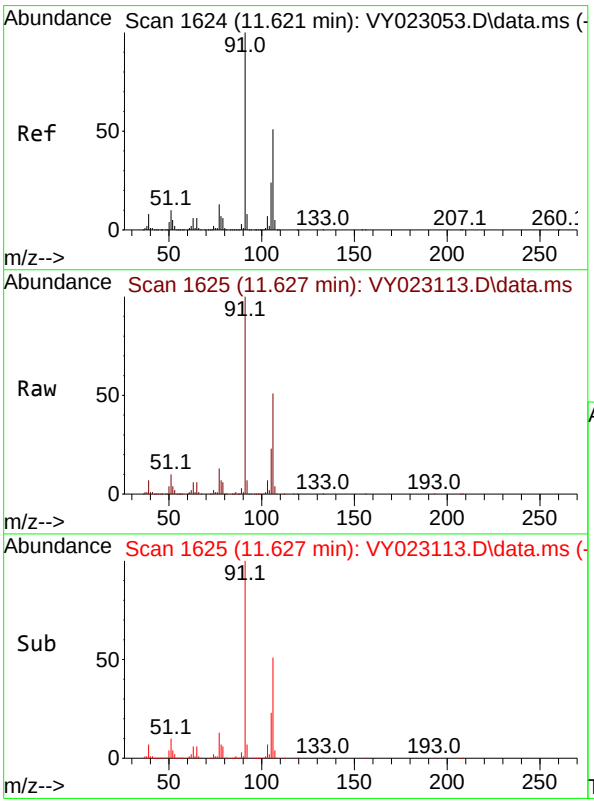
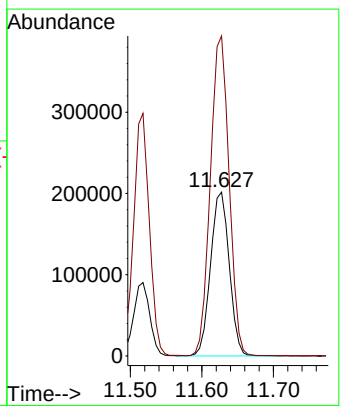
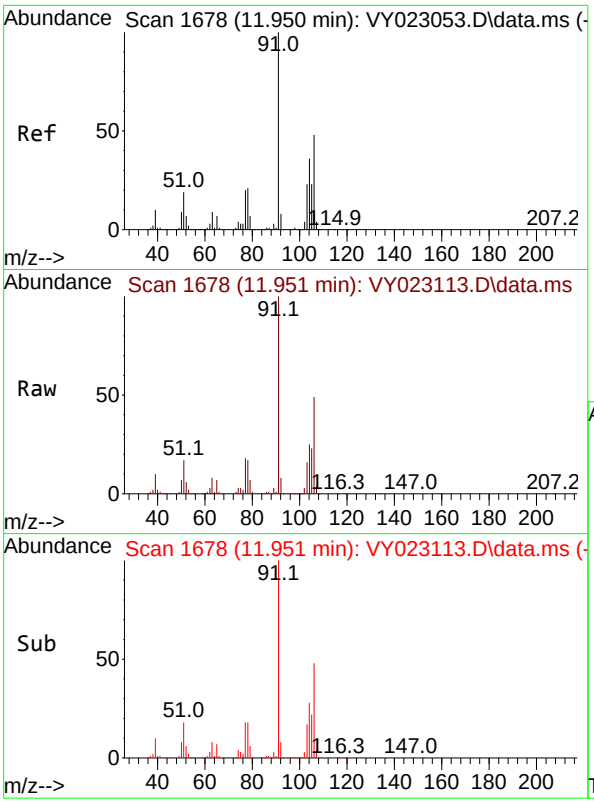


#68
m/p-Xylenes
Concen: 38.555 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:106 Resp: 365819

Ion	Ratio	Lower	Upper
106	100		
91	195.9	158.6	238.0

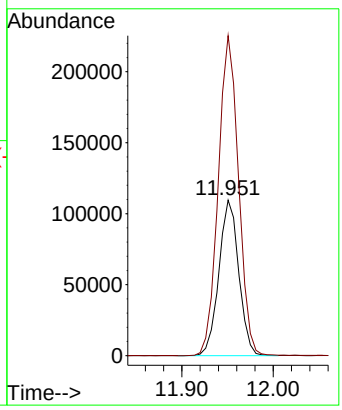




#69
o-Xylene
Concen: 18.648 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:106 Resp: 16571

Ion	Ratio	Lower	Upper
106	100		
91	210.1	103.2	309.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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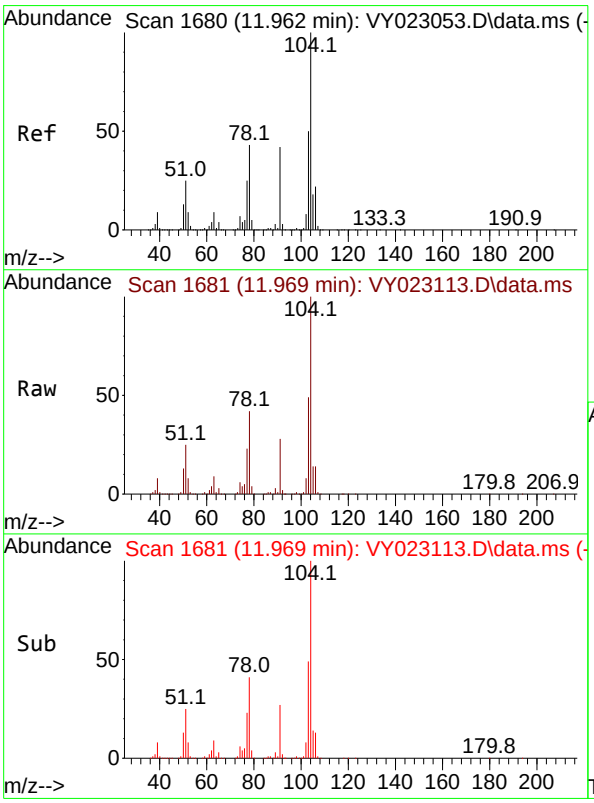
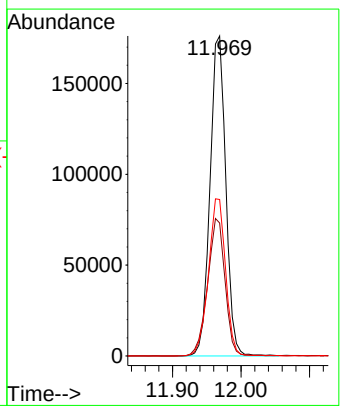
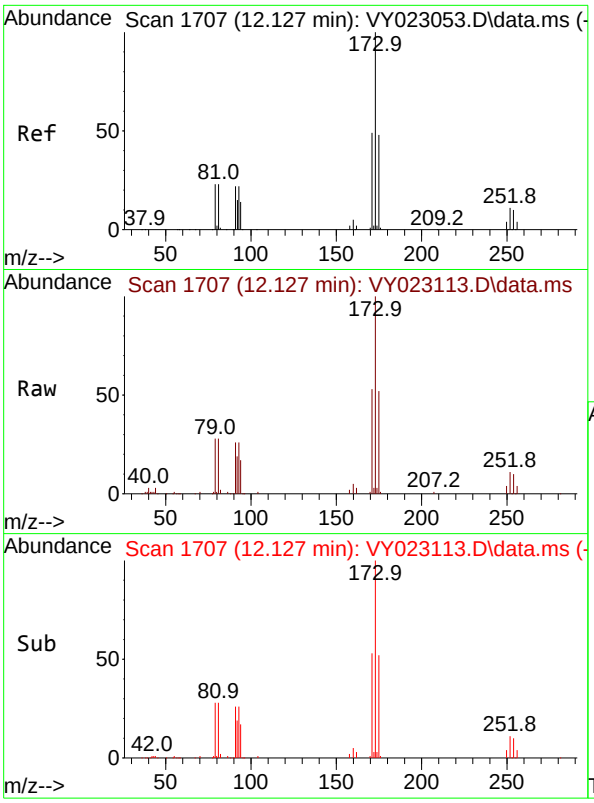


#70
Styrene
Concen: 19.385 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:104 Resp: 281721

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.5	57.7
103	53.4	43.7	65.5

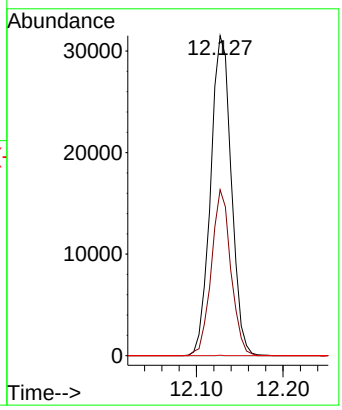




#71
Bromoform
Concen: 18.687 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:173 Resp: 5232

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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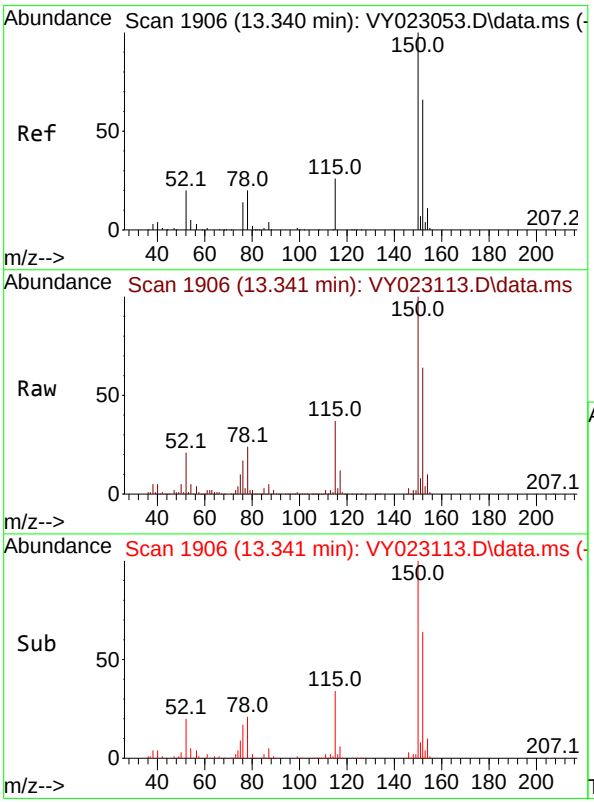
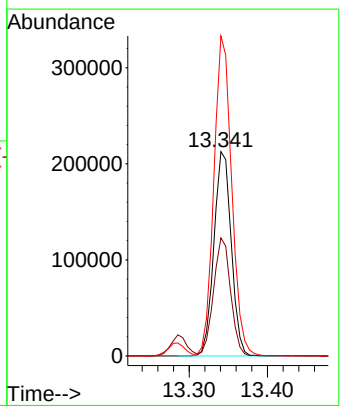
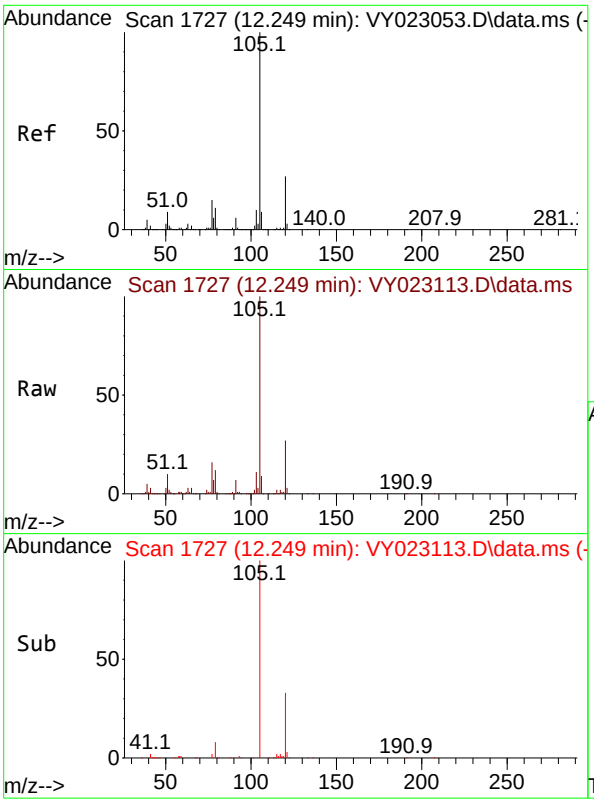


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.341 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:152 Resp: 327154

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.2	84.6
150	161.2	0.0	348.0

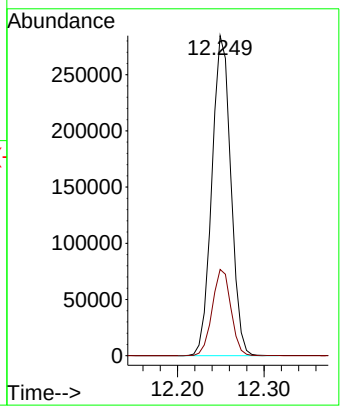




#73
Isopropylbenzene
Concen: 18.755 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:105 Resp: 43305

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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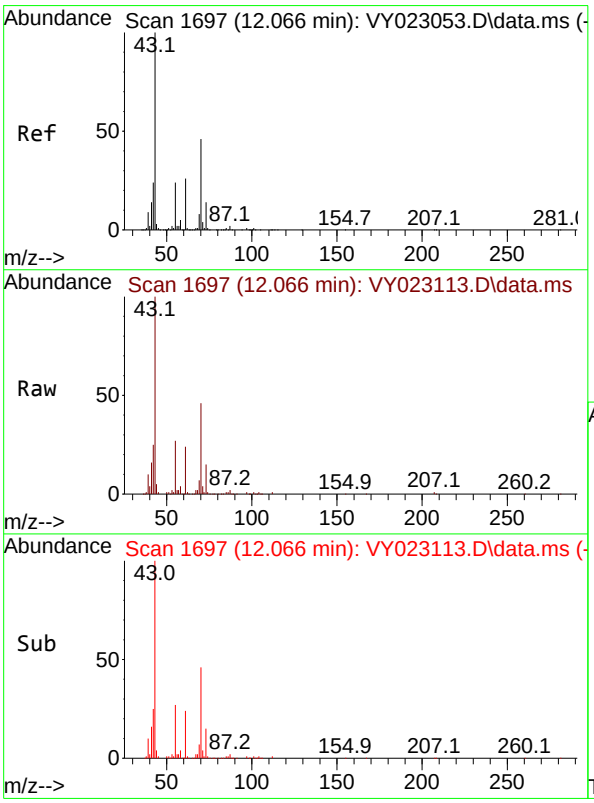
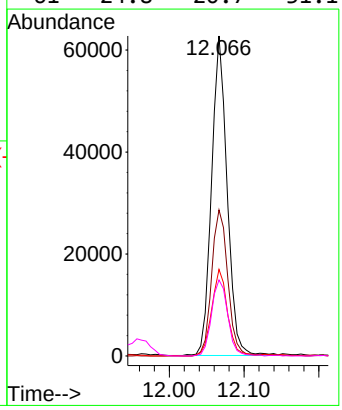
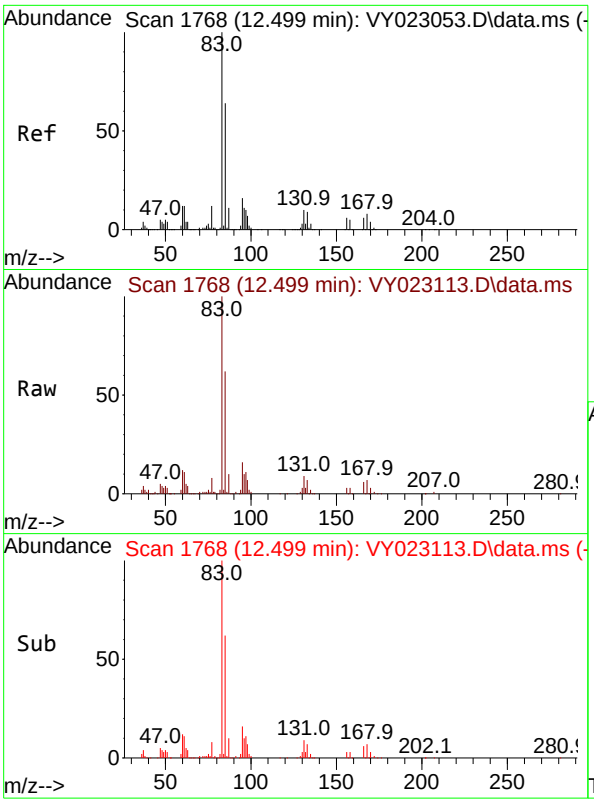


#74
N-amyl acetate
Concen: 18.605 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 91104

Ion	Ratio	Lower	Upper
43	100		
70	47.9	37.5	56.3
55	27.6	20.7	31.1
61	24.8	20.7	31.1

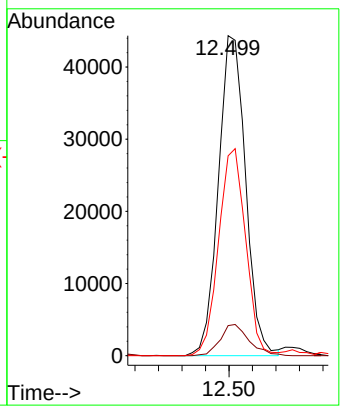




#75
1,1,2,2-Tetrachloroethane
Concen: 18.110 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 83 Resp: 7140

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.3	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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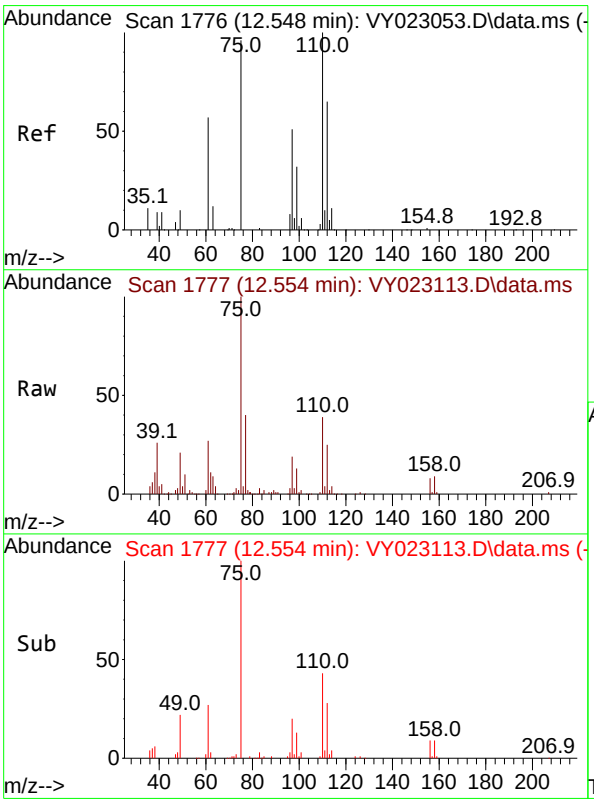
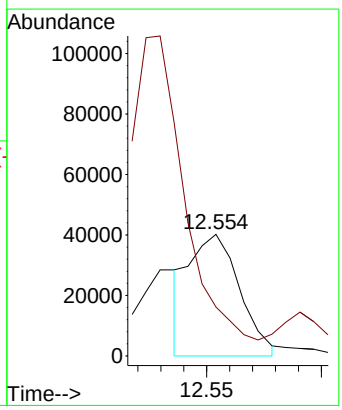
Supervised By :Mahesh Dadoda 08/19/2025

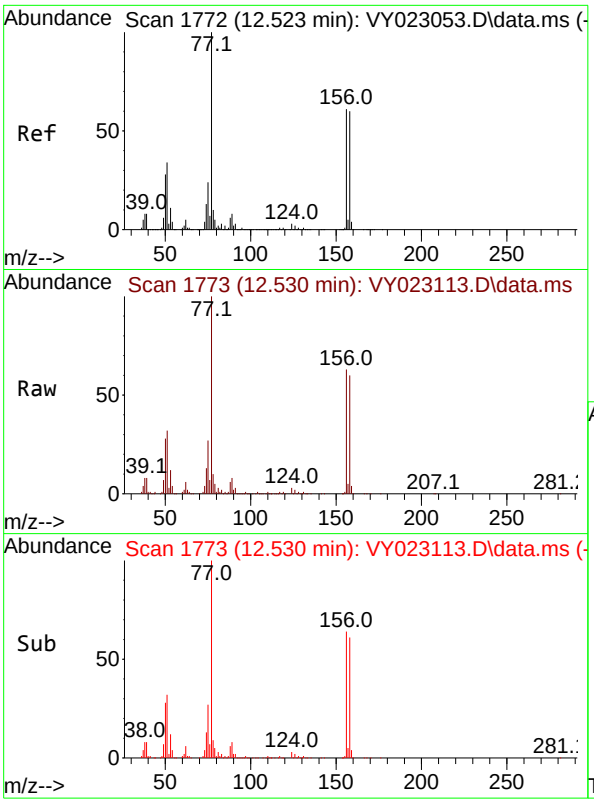


#76
1,2,3-Trichloropropane
Concen: 19.457 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 61433

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 19.006 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:156 Resp: 10469

Ion	Ratio	Lower	Upper
156	100		
77	181.4	88.1	264.4
158	95.4	48.0	144.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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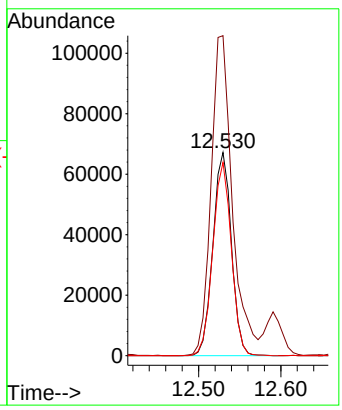
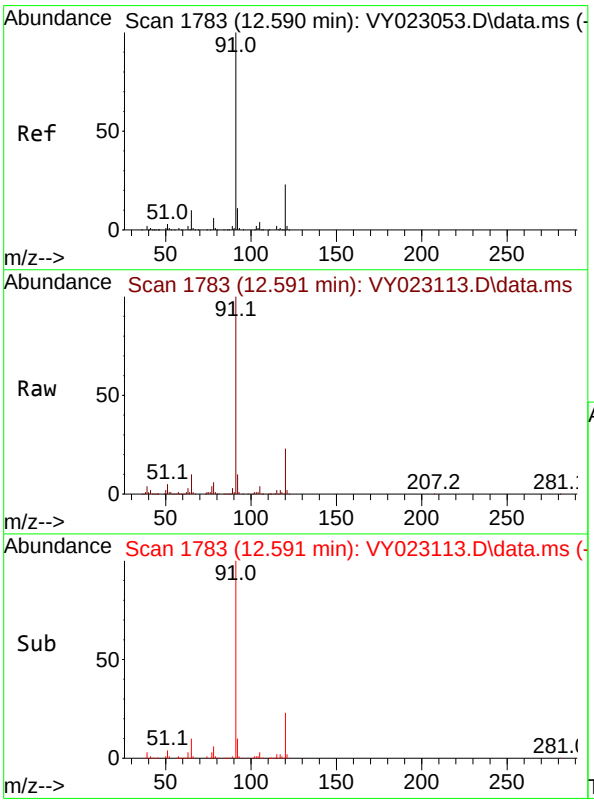
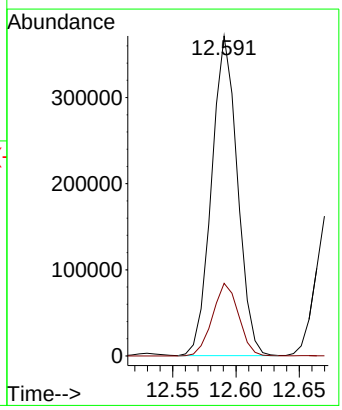


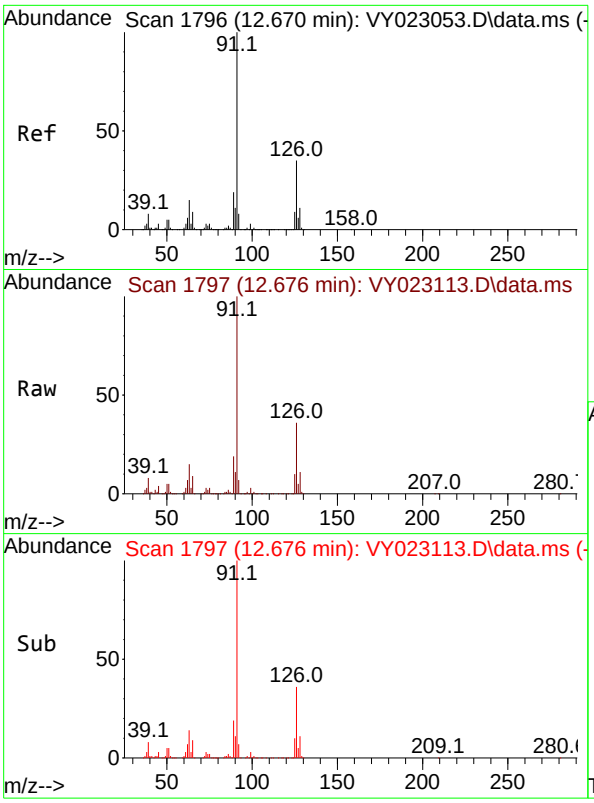


#78
n-propylbenzene
Concen: 19.204 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 527930

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5





#79
2-Chlorotoluene
Concen: 18.946 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 29840

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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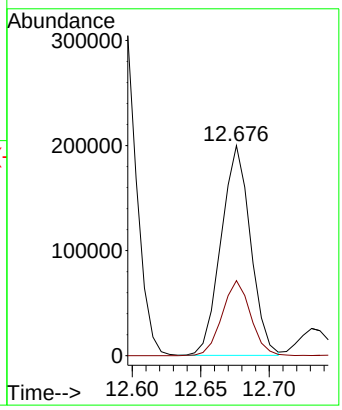
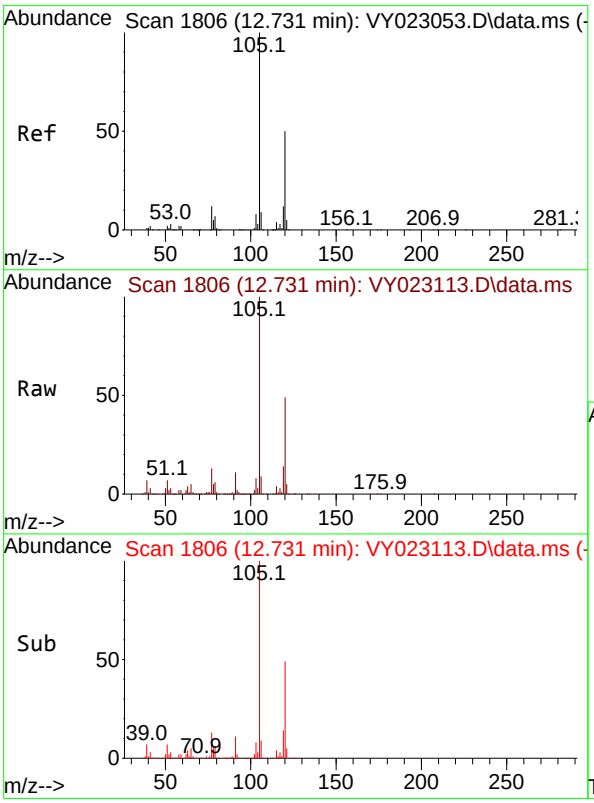
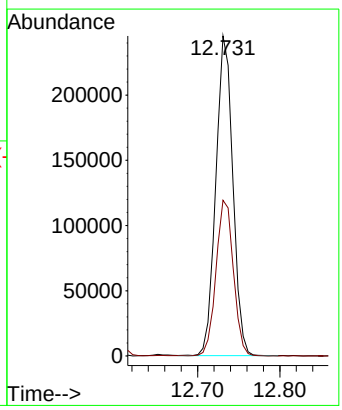


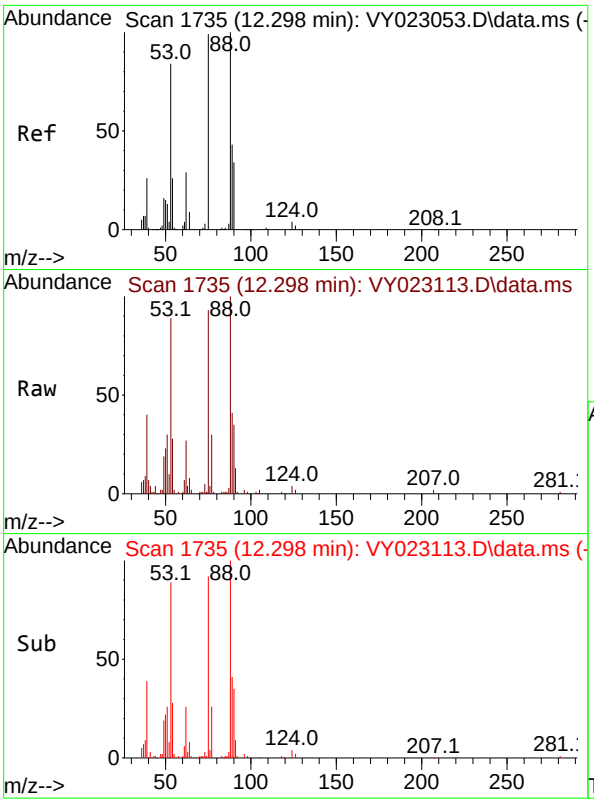


#80
1,3,5-Trimethylbenzene
Concen: 18.850 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:105 Resp: 351759

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 18.524 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 2416

Ion	Ratio	Lower	Upper
75	100		
53	92.8	70.8	106.2
89	44.7	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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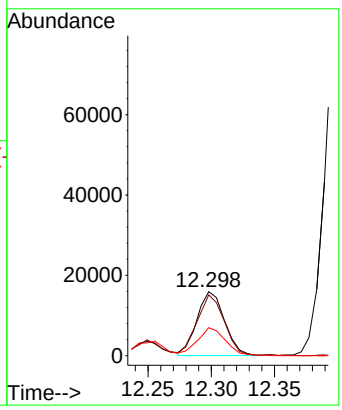
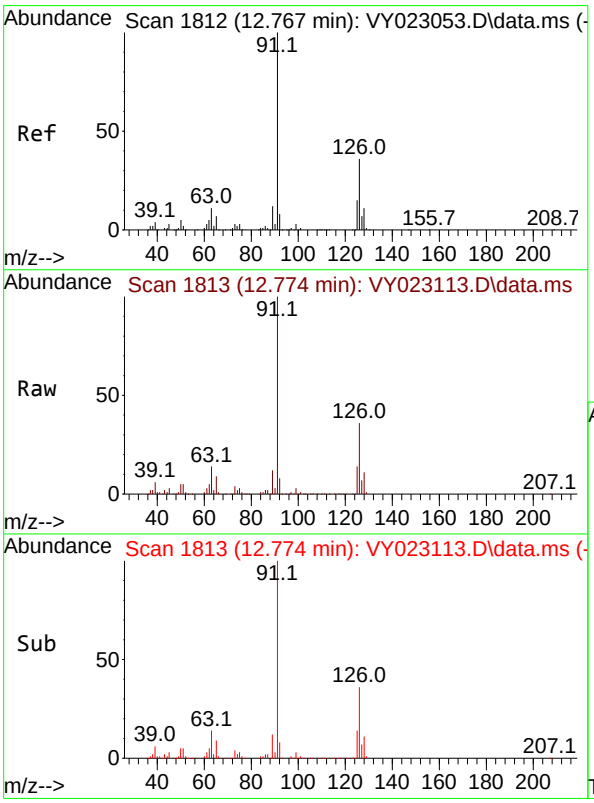
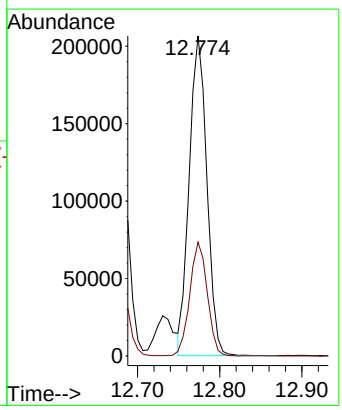


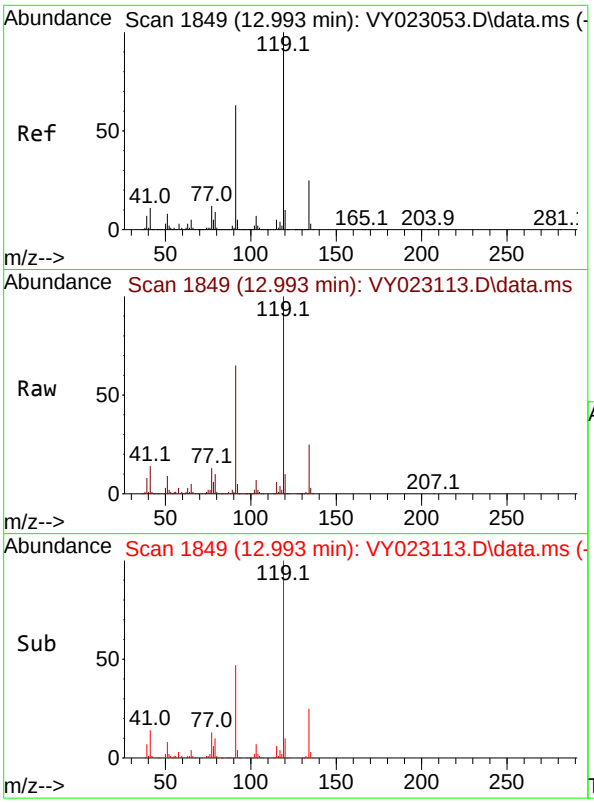


#82
4-Chlorotoluene
Concen: 18.799 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 307174

Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.3	52.0





#83
tert-Butylbenzene
Concen: 18.153 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:119 Resp: 30595

Ion	Ratio	Lower	Upper
119	100		
91	65.3	31.6	94.8
134	25.9	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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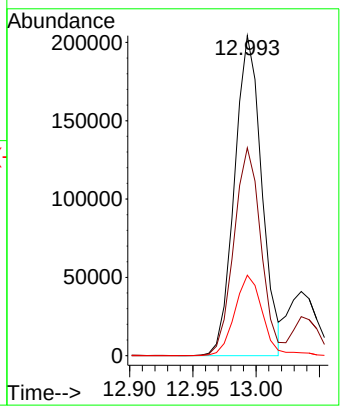
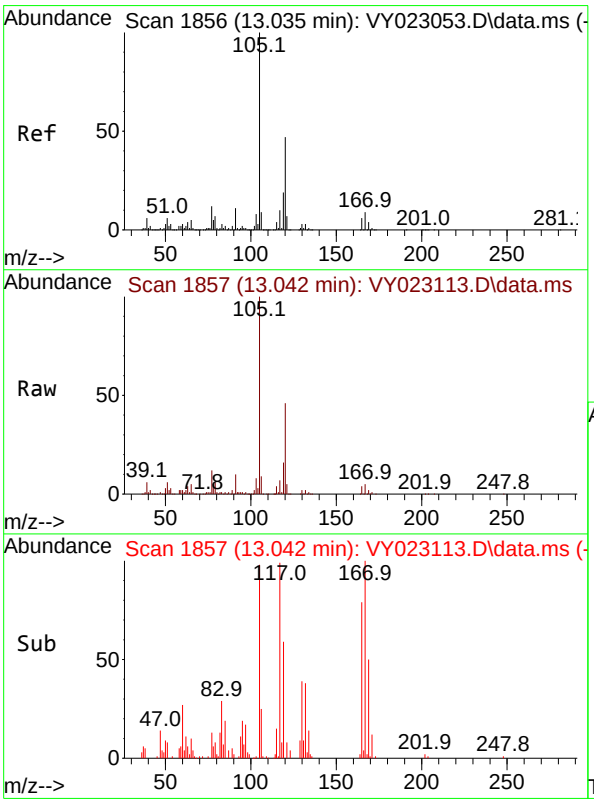
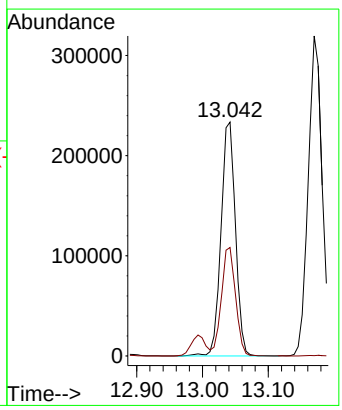


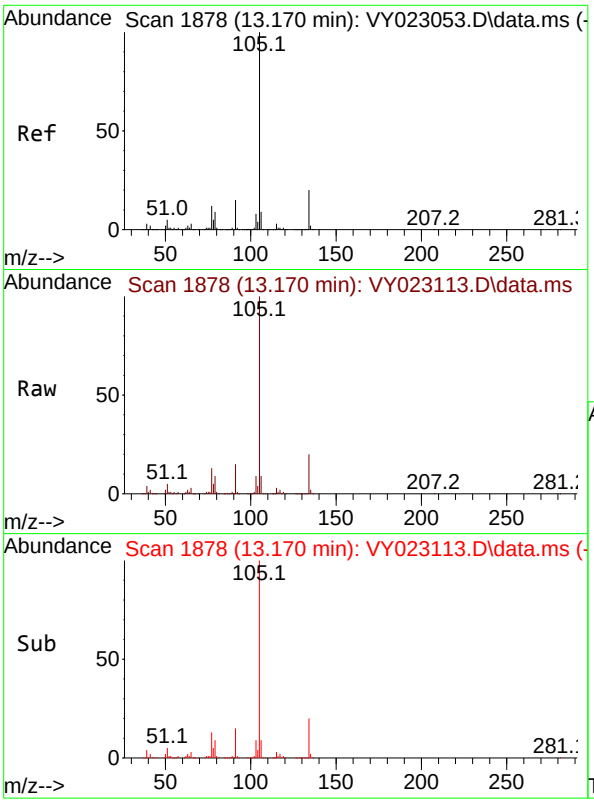


#84
1,2,4-Trimethylbenzene
Concen: 19.199 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:105 Resp: 356647

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.0	69.0

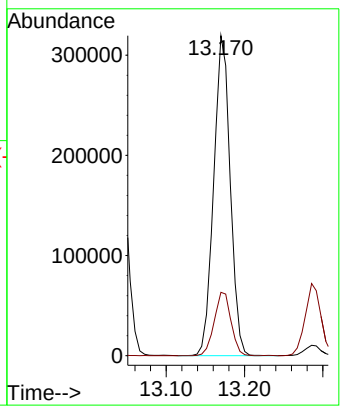




#85
sec-Butylbenzene
Concen: 18.917 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:105 Resp: 46835

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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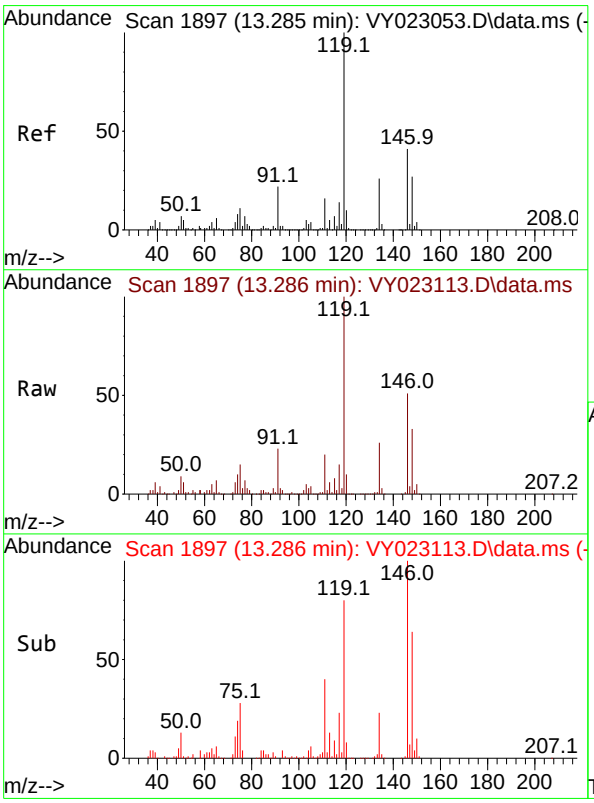
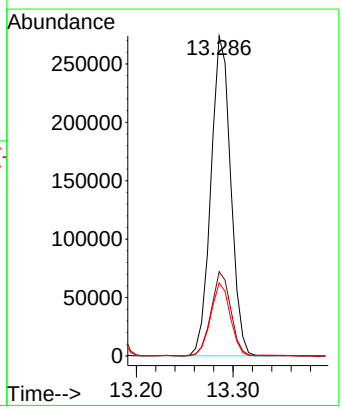
Supervised By :Mahesh Dadoda 08/19/2025

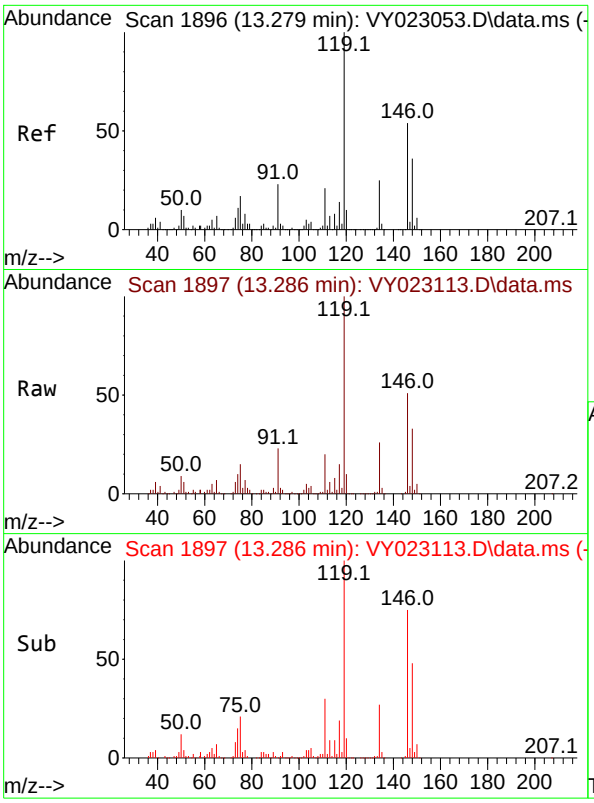


#86
p-Isopropyltoluene
Concen: 18.897 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:119 Resp: 388353

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.2	39.6
91	22.5	11.3	33.8

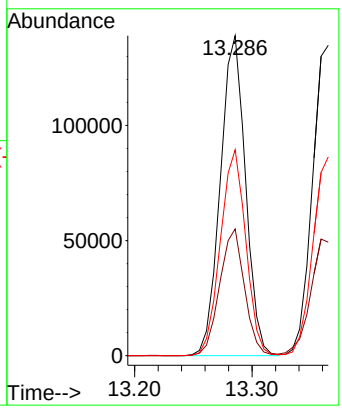




#87
1,3-Dichlorobenzene
Concen: 19.055 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:146 Resp: 20699

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	65.1	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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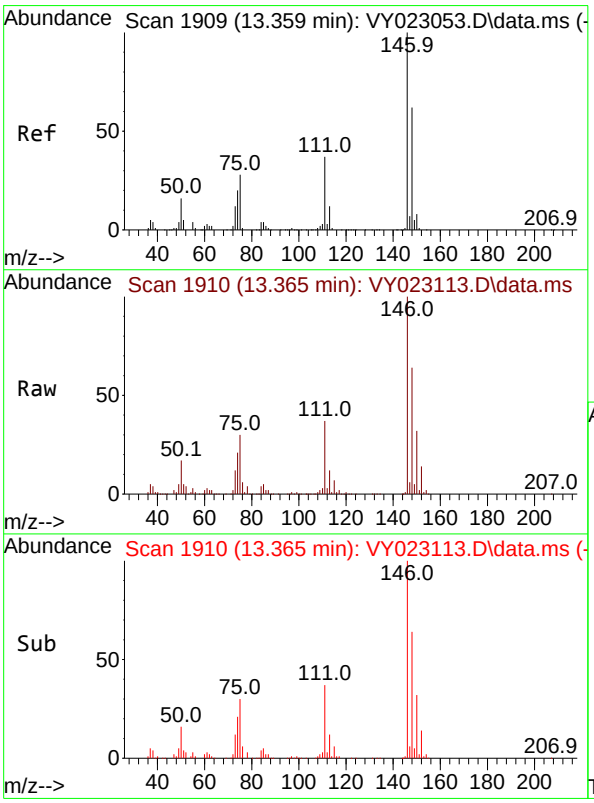
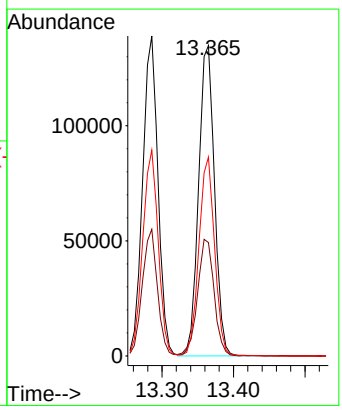
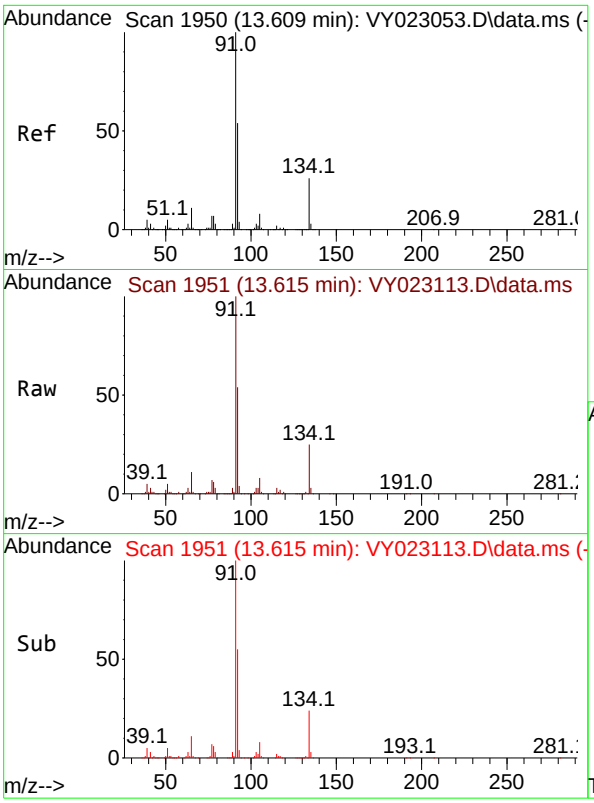


#88
1,4-Dichlorobenzene
Concen: 19.268 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:146 Resp: 207638

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.1
148	63.2	31.6	94.7

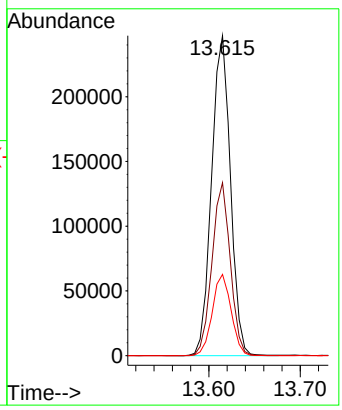




#89
n-Butylbenzene
Concen: 18.720 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 35333

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.9	80.7
134	25.5	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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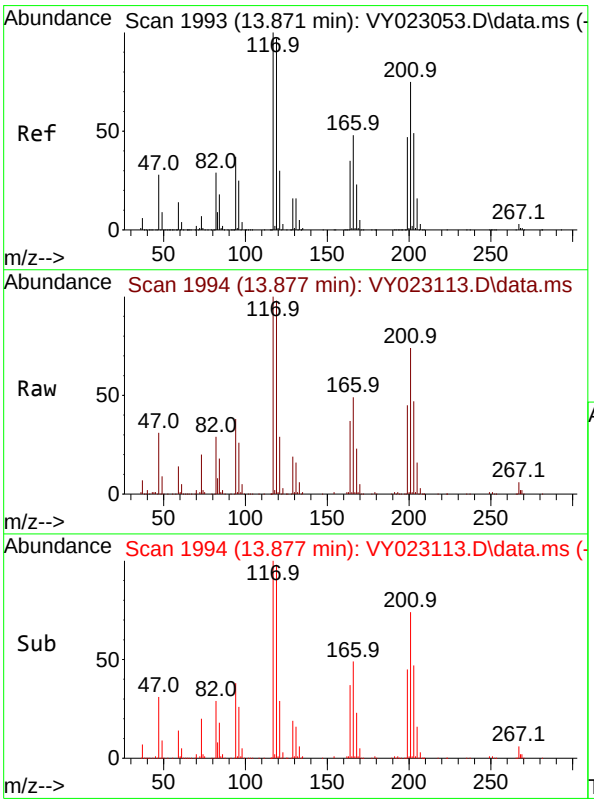
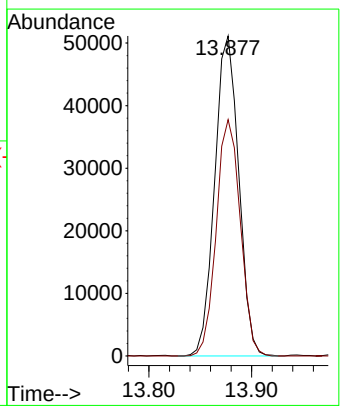
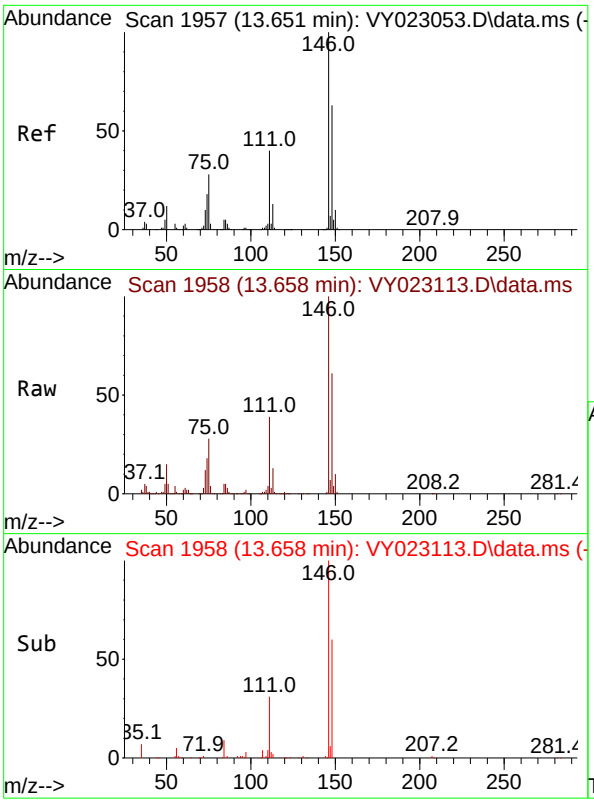


#90
Hexachloroethane
Concen: 19.725 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:117 Resp: 82985

Ion	Ratio	Lower	Upper
117	100		
201	73.8	38.4	115.1

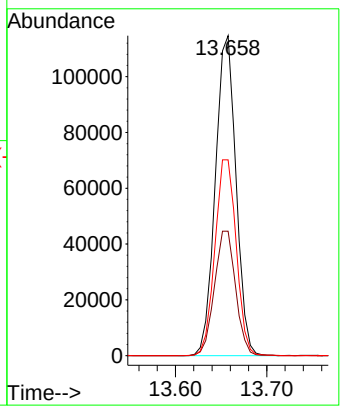




#91
1,2-Dichlorobenzene
Concen: 18.946 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:146 Resp: 18050

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.2	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

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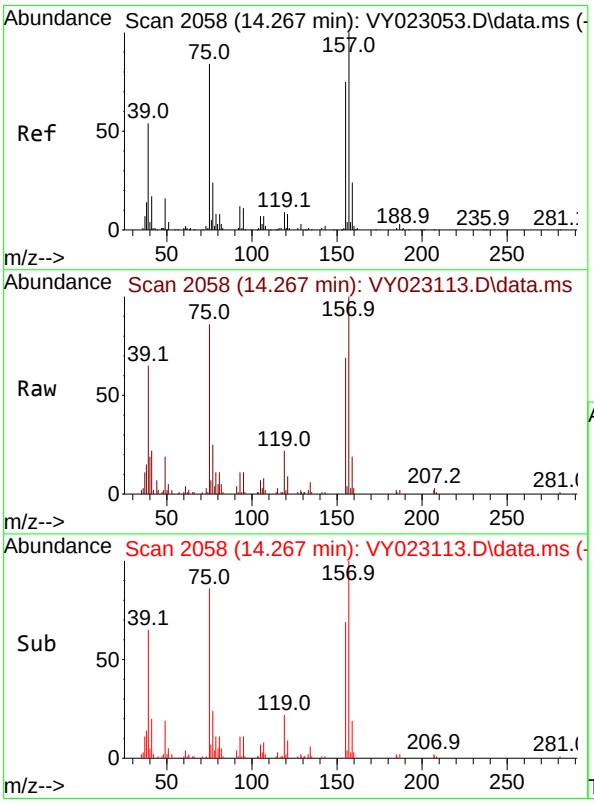
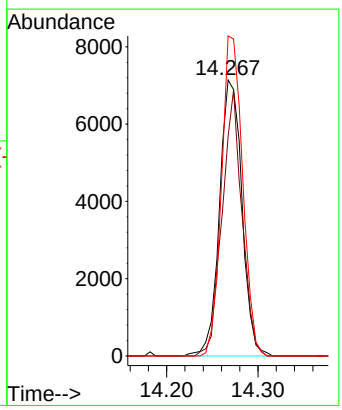
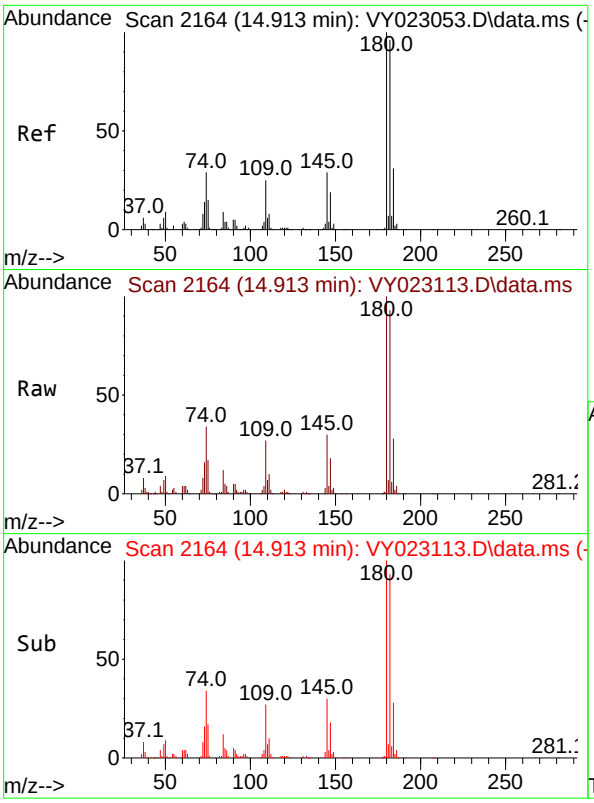


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.809 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 12160

Ion	Ratio	Lower	Upper
75	100		
155	85.4	43.9	131.6
157	109.3	57.2	171.6

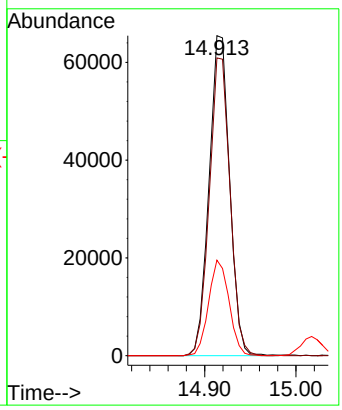




#93
1,2,4-Trichlorobenzene
Concen: 18.177 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:180 Resp: 10240

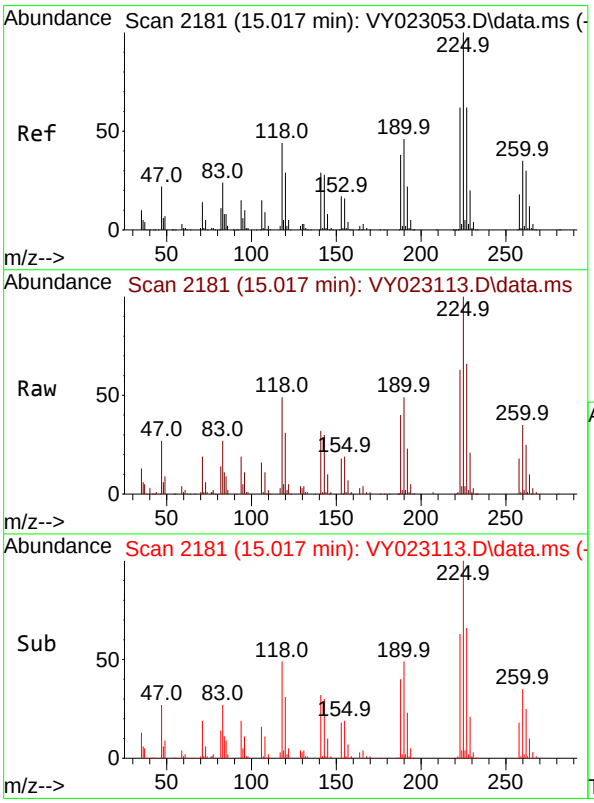
Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations
APPROVED

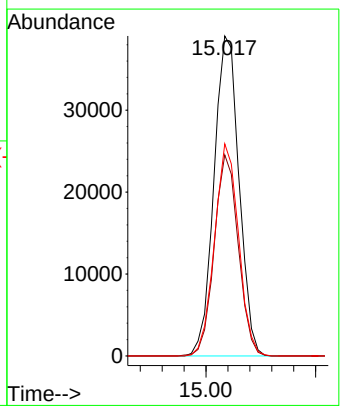
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

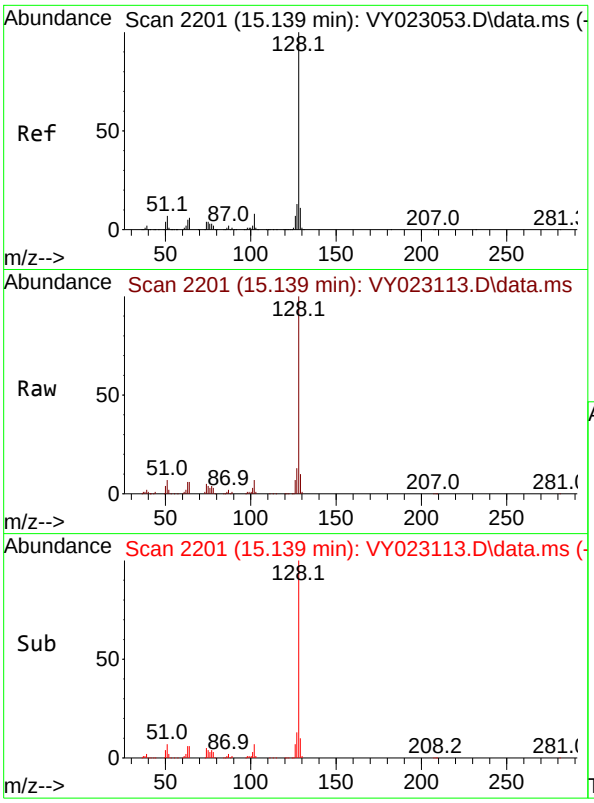


#94
Hexachlorobutadiene
Concen: 18.710 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:225 Resp: 61940

Ion	Ratio	Lower	Upper
225	100		
223	60.2	31.3	93.8
227	63.8	31.5	94.5

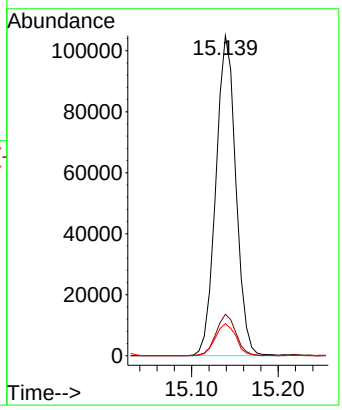




#95
Naphthalene
Concen: 17.503 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:128 Resp: 16814

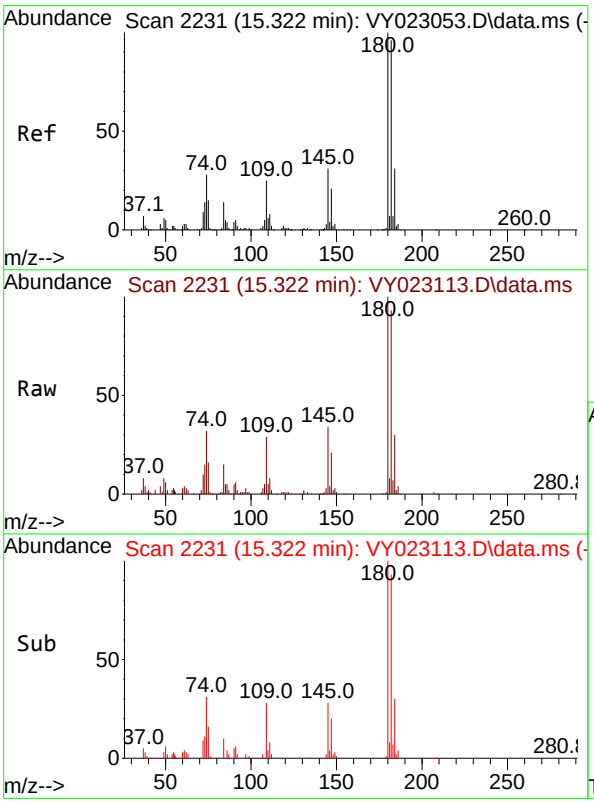
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.4	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations
APPROVED

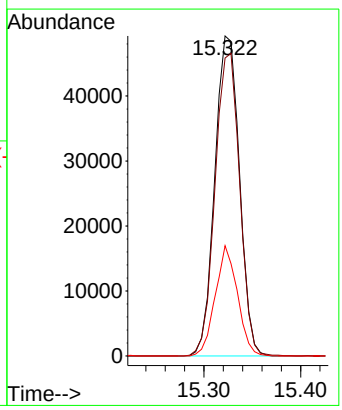
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.892 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:180 Resp: 86860

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.7
145	31.1	15.9	47.7



Raw Data: **VY023139.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBS01	SDG No.:	Q2820
Lab Sample ID:	VY0819SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023139.D	1	08/19/25 10:19	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	20.7		1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	20.2		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.6		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	23.2		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	20.8		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.0		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	110		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.7		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	17.4		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	18.9		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.0		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	19.6		0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.4		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.8		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	21.1		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.2		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	21.2		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.7		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	2.50	5.00	ug/Kg

Raw Data: **VY023139.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBS01	SDG No.:	Q2820
Lab Sample ID:	VY0819SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023139.D	1	08/19/25 10:19	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.1		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	99.0		3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.3		0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	21.3		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.0		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	21.0		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	21.0		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	20.5		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.2		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.9		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.8		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.2		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.1		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.4		71 - 136		95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		78 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	49.6		85 - 116		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	518000	7.707				
540-36-3	1,4-Difluorobenzene	817000	8.615				
3114-55-4	Chlorobenzene-d5	707000	11.413				
3855-82-1	1,4-Dichlorobenzene-d4	353000	13.346				

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBS01	SDG No.:	Q2820
Lab Sample ID:	VY0819SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023139.D	1	08/19/25 10:19	VY081925

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	517532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	816918	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	707204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	352720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	233623	47.365	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.720%			
35) Dibromofluoromethane	7.634	113	237406	48.567	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.140%			
50) Toluene-d8	10.109	98	947313	49.608	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.220%			
62) 4-Bromofluorobenzene	12.401	95	298119	48.544	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	87281	20.661	ug/l	100
3) Chloromethane	2.074	50	138015	20.171	ug/l	100
4) Vinyl Chloride	2.208	62	173827	20.552	ug/l	99
5) Bromomethane	2.592	94	146241	23.152	ug/l	98
6) Chloroethane	2.738	64	116717	20.757	ug/l	99
7) Trichlorofluoromethane	3.055	101	205259	19.958	ug/l	98
8) Diethyl Ether	3.458	74	54043	19.862	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.817	101	109139	21.510	ug/l	99
10) Methyl Iodide	4.006	142	105447	19.260	ug/l	99
11) Tert butyl alcohol	4.860	59	29364	86.885	ug/l	100
12) 1,1-Dichloroethene	3.793	96	103754	20.804	ug/l	91
13) Acrolein	3.653	56	35491	71.706	ug/l	96
14) Allyl chloride	4.384	41	138299	18.846	ug/l	96
15) Acrylonitrile	5.055	53	104521	94.488	ug/l	98
16) Acetone	3.872	43	120414	112.685	ug/l	98
17) Carbon Disulfide	4.104	76	323680	19.905	ug/l	99
18) Methyl Acetate	4.384	43	55412	17.426	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	254848	19.720	ug/l	97
20) Methylene Chloride	4.616	84	114203	18.875	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	117658	20.993	ug/l	96
22) Diisopropyl ether	6.018	45	314582	19.728	ug/l	95
23) Vinyl Acetate	5.963	43	837107	94.938	ug/l	97
24) 1,1-Dichloroethane	5.921	63	194782	19.979	ug/l	100
25) 2-Butanone	6.890	43	146563	100.847	ug/l	99
26) 2,2-Dichloropropane	6.890	77	179625	21.352	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	133354	20.582	ug/l	97
28) Bromochloromethane	7.244	49	75324	19.474	ug/l	96
29) Tetrahydrofuran	7.262	42	81427	90.389	ug/l	98
30) Chloroform	7.426	83	208029	20.690	ug/l	100
31) Cyclohexane	7.701	56	180441	19.640	ug/l	94
32) 1,1,1-Trichloroethane	7.615	97	185862	20.833	ug/l	99
36) 1,1-Dichloropropene	7.835	75	149696	20.606	ug/l	99
37) Ethyl Acetate	6.981	43	56943	18.660	ug/l	98
38) Carbon Tetrachloride	7.817	117	169089	21.430	ug/l	99
39) Methylcyclohexane	9.109	83	199011	20.803	ug/l	99
40) Benzene	8.079	78	471421	21.055	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	32549m	18.482	ug/l		
42) 1,2-Dichloroethane	8.158	62	117552	20.187	ug/l		100
43) Isopropyl Acetate	8.195	43	113681	18.431	ug/l		99
44) Trichloroethene	8.865	130	122590	21.187	ug/l		98
45) 1,2-Dichloropropane	9.140	63	105641	20.506	ug/l		99
46) Dibromomethane	9.231	93	62014	20.972	ug/l		97
47) Bromodichloromethane	9.420	83	157692	20.725	ug/l		98
48) Methyl methacrylate	9.219	41	54599	18.499	ug/l		93
49) 1,4-Dioxane	9.231	88	13295	383.459	ug/l		96
51) 4-Methyl-2-Pentanone	9.999	43	298177	93.721	ug/l		99
52) Toluene	10.170	92	299030	21.028	ug/l		99
53) t-1,3-Dichloropropene	10.395	75	138793	20.144	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	166637	20.453	ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	80520	20.350	ug/l		95
56) Ethyl methacrylate	10.438	69	94888	18.741	ug/l		99
57) 1,3-Dichloropropane	10.718	76	138195	20.594	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	226098	94.672	ug/l		98
59) 2-Hexanone	10.761	43	214547	99.034	ug/l		100
60) Dibromochloromethane	10.907	129	107311	20.554	ug/l		100
61) 1,2-Dibromoethane	11.017	107	75418	20.280	ug/l		100
64) Tetrachloroethene	10.645	164	129655	20.532	ug/l		99
65) Chlorobenzene	11.438	112	325629	21.346	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	109752	21.199	ug/l		98
67) Ethyl Benzene	11.517	91	545176	20.767	ug/l		98
68) m/p-Xylenes	11.627	106	430120	41.951	ug/l		100
69) o-Xylene	11.956	106	201847	21.020	ug/l		100
70) Styrene	11.968	104	330216	21.028	ug/l		99
71) Bromoform	12.127	173	62105	20.525	ug/l	#	99
73) Isopropylbenzene	12.255	105	527385	21.185	ug/l		99
74) N-amyl acetate	12.066	43	98366	18.632	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	87962	20.694	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	61598m	18.095	ug/l		
77) Bromobenzene	12.529	156	122298	20.592	ug/l		99
78) n-propylbenzene	12.596	91	629976	21.255	ug/l		99
79) 2-Chlorotoluene	12.675	91	356441	20.990	ug/l		100
80) 1,3,5-Trimethylbenzene	12.736	105	422945	21.022	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	27897	19.838	ug/l		98
82) 4-Chlorotoluene	12.773	91	366476	20.803	ug/l		99
83) tert-Butylbenzene	12.992	119	383813	21.122	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	426567	21.298	ug/l		99
85) sec-Butylbenzene	13.175	105	572911	21.463	ug/l		100
86) p-Isopropyltoluene	13.291	119	473600	21.375	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	245224	20.938	ug/l		98
88) 1,4-Dichlorobenzene	13.364	146	241992	20.829	ug/l		99
89) n-Butylbenzene	13.614	91	427124	20.989	ug/l		99
90) Hexachloroethane	13.876	117	97949	21.595	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	210816	20.524	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12905	19.499	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	122439	20.157	ug/l		98
94) Hexachlorobutadiene	15.023	225	75487	21.149	ug/l		99
95) Naphthalene	15.145	128	198080	19.124	ug/l		99
96) 1,2,3-Trichlorobenzene	15.327	180	105286	20.115	ug/l		99

Sample Results: **VY023139.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations APPROVED

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Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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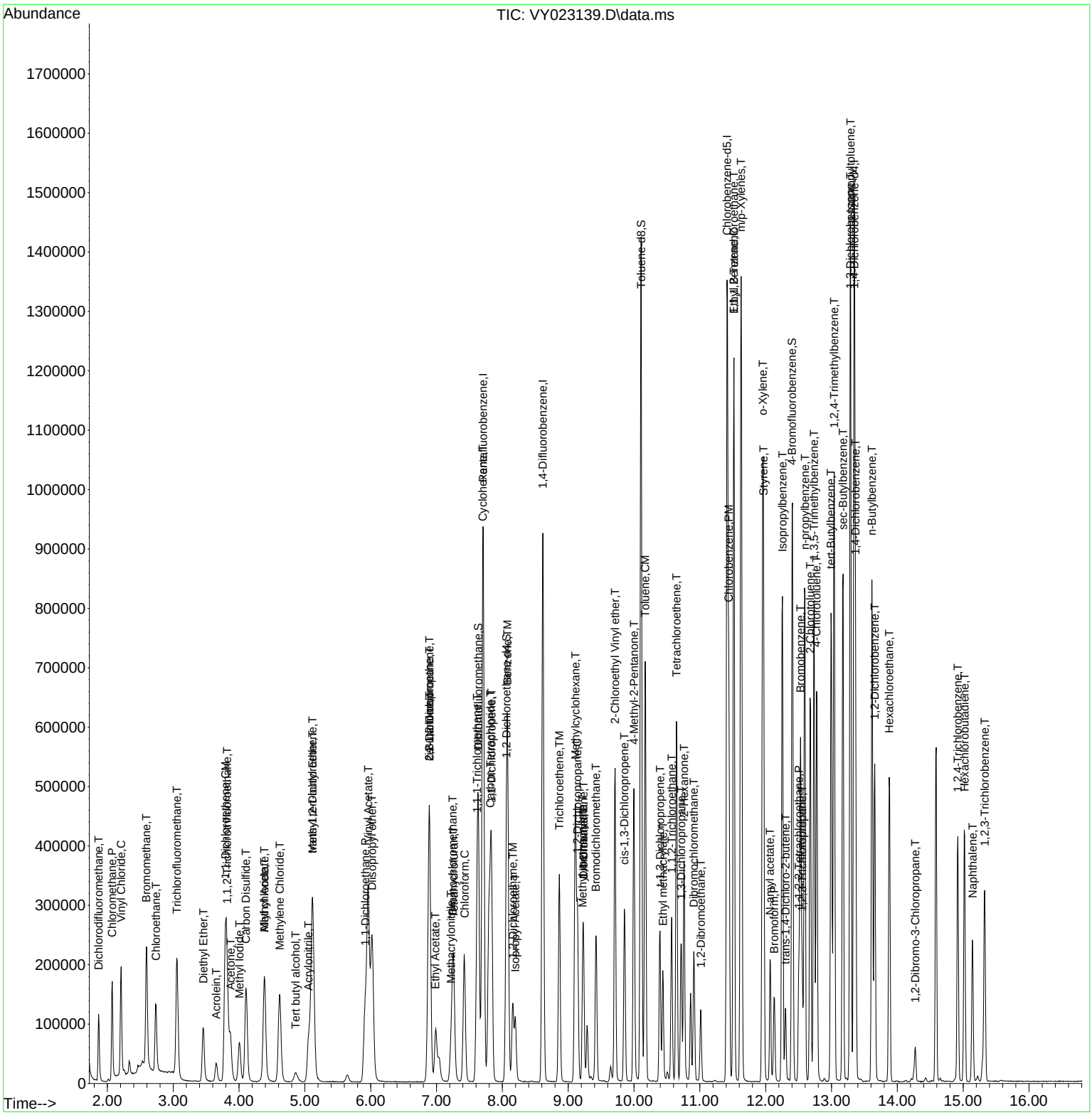
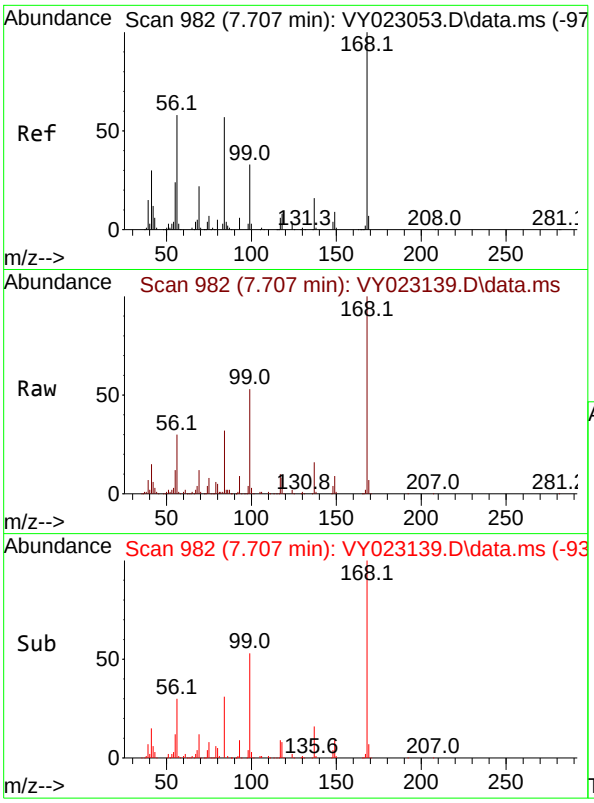
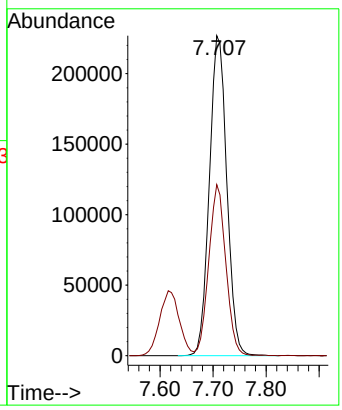




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:168 Resp: 51753

Ion	Ratio	Lower	Upper
168	100		
99	53.4	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
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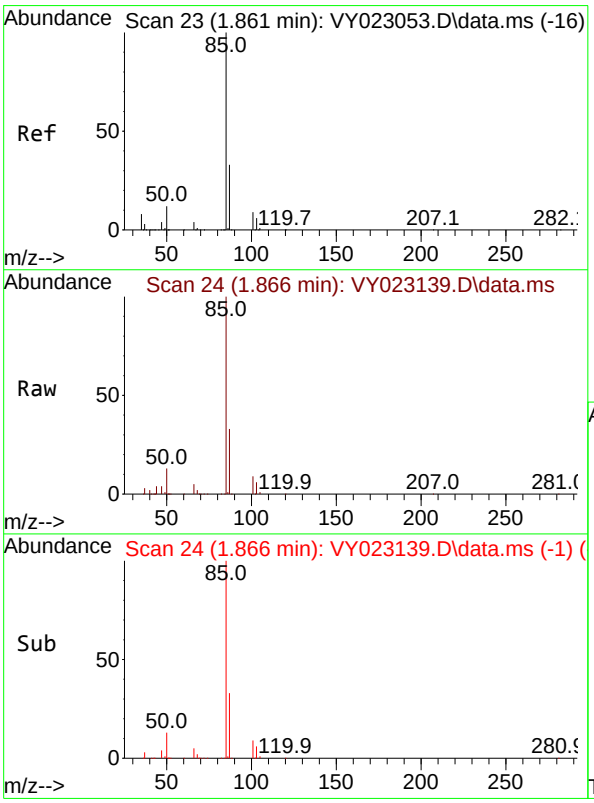
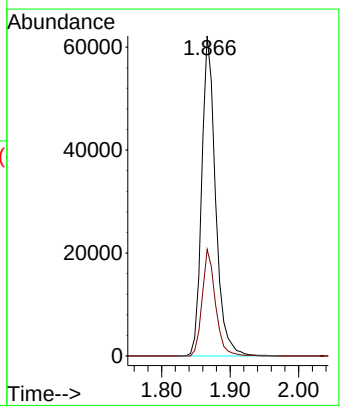
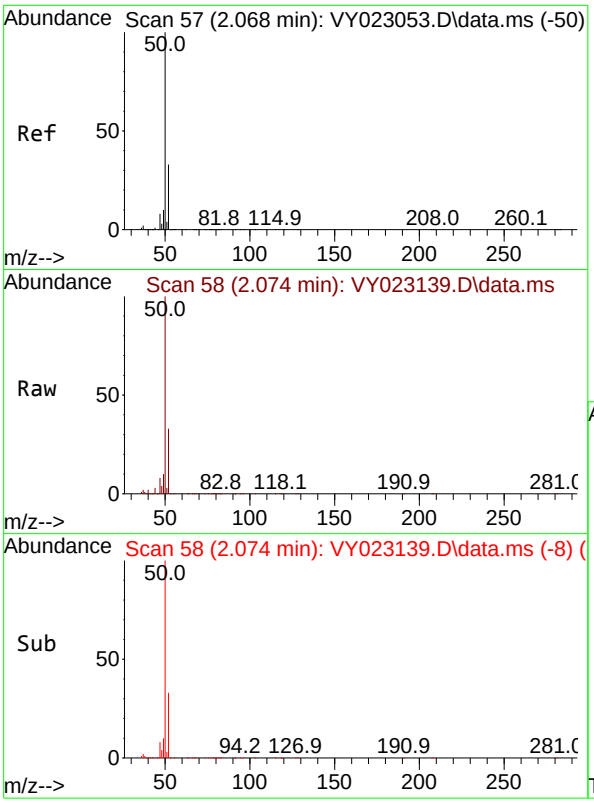


#2
Dichlorodifluoromethane
Concen: 20.661 ug/l
RT: 1.866 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 85 Resp: 87281

Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.6	49.8

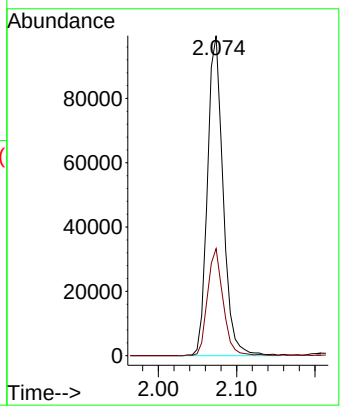




#3
Chloromethane
Concen: 20.171 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 50 Resp: 13801

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
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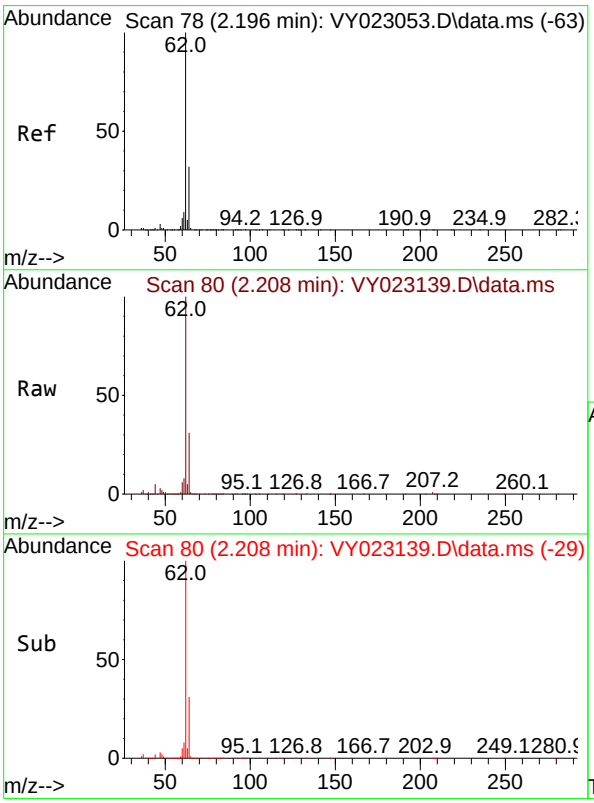
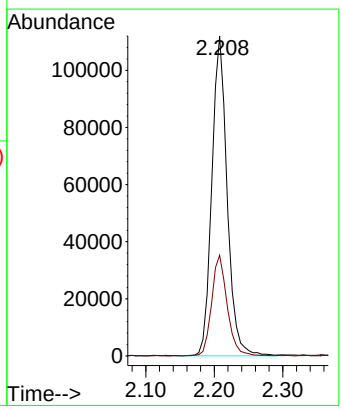
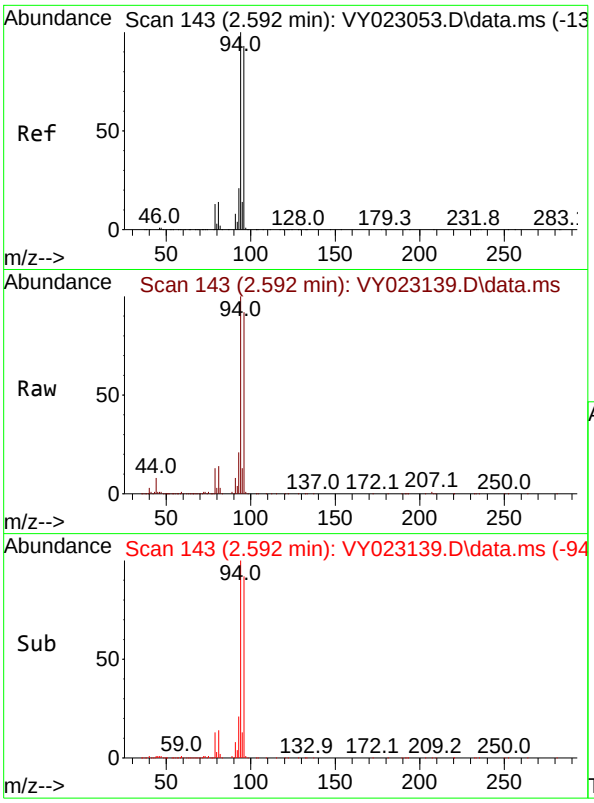


#4
Vinyl Chloride
Concen: 20.552 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 173827

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.4	38.0

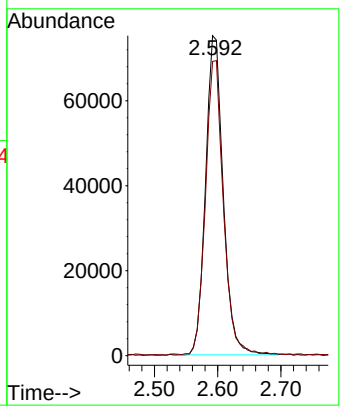




#5
Bromomethane
Concen: 23.152 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 94 Resp: 14624

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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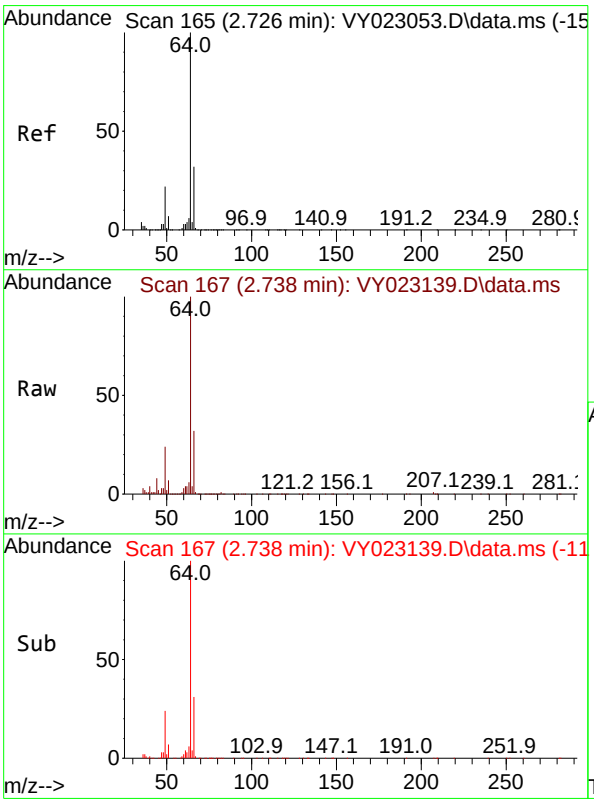
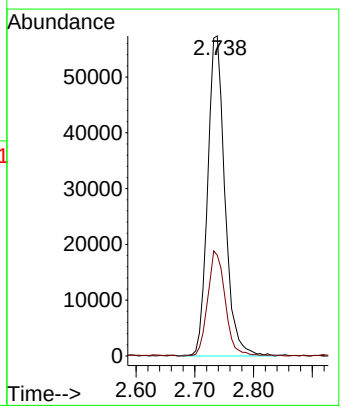
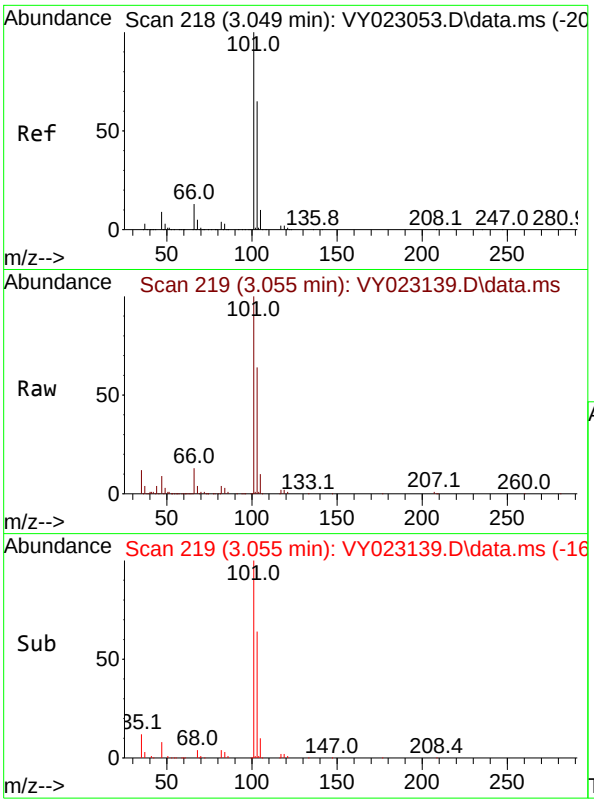


#6
Chloroethane
Concen: 20.757 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 64 Resp: 116717

Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.8	38.6





#7
Trichlorofluoromethane
Concen: 19.958 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:101 Resp: 20525

Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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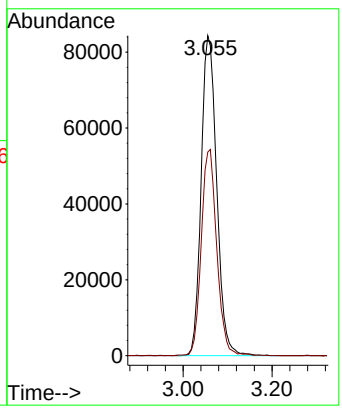
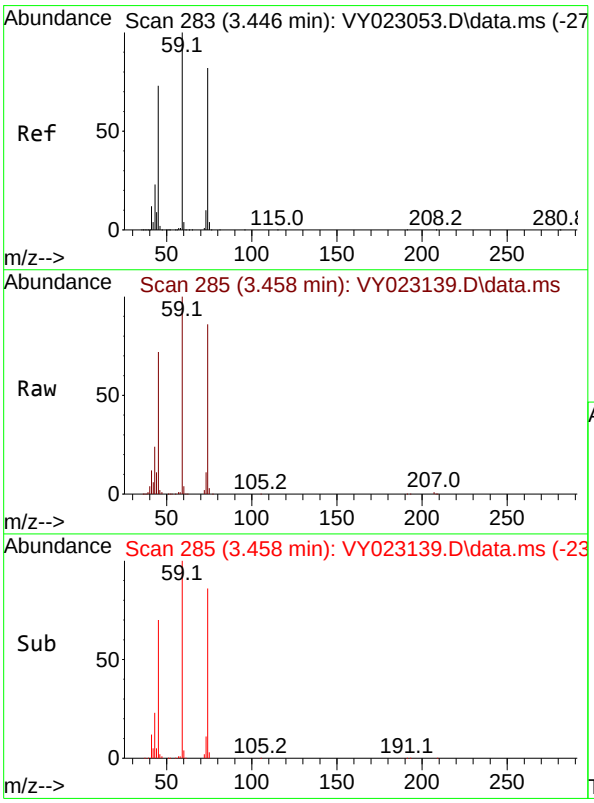
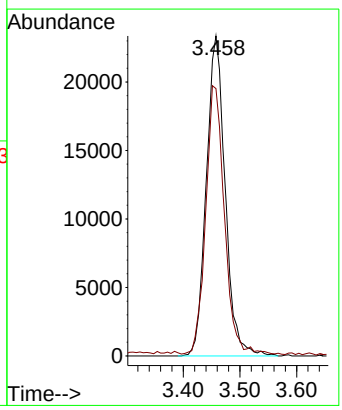


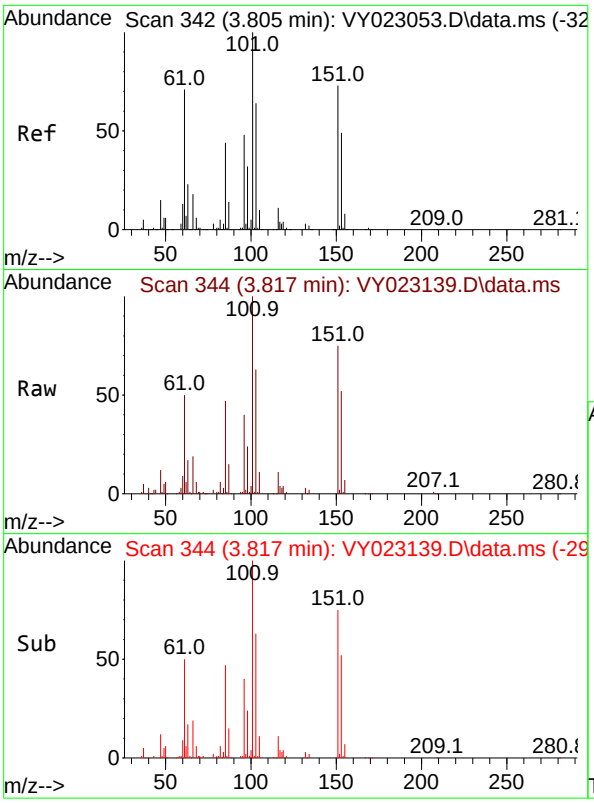


#8
Diethyl Ether
Concen: 19.862 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 74 Resp: 54043

Ion	Ratio	Lower	Upper
74	100		
45	83.3	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.510 ug/l
RT: 3.817 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:101 Resp: 10913

Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.3	54.5
151	77.5	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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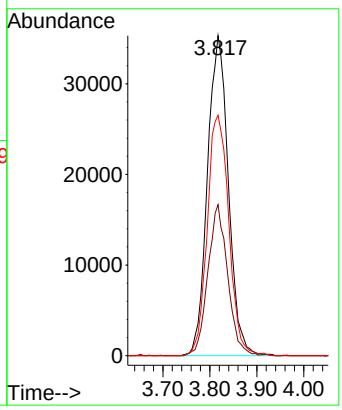
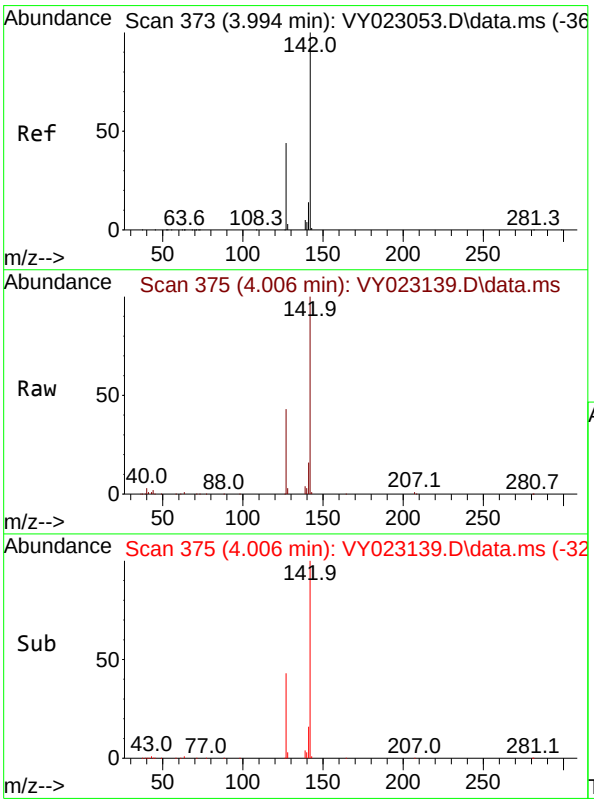
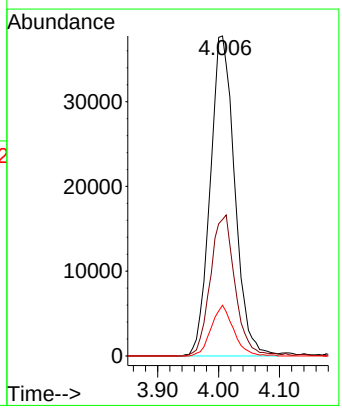


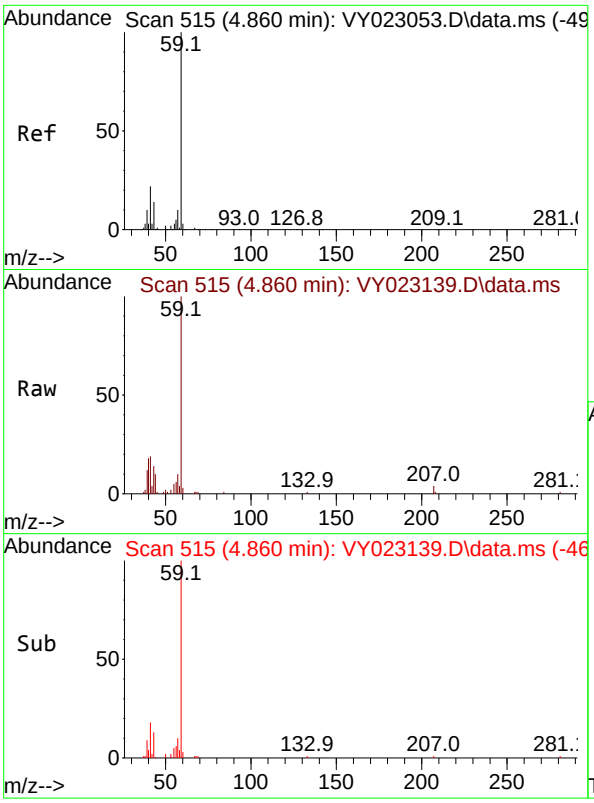


#10
Methyl Iodide
Concen: 19.260 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:142 Resp: 105447

Ion	Ratio	Lower	Upper
142	100		
127	44.5	34.9	52.3
141	14.5	11.3	16.9

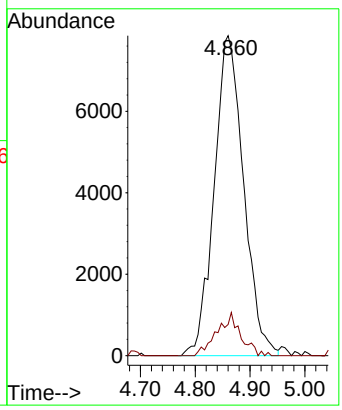




#11
Tert butyl alcohol
Concen: 86.885 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 59 Resp: 2936

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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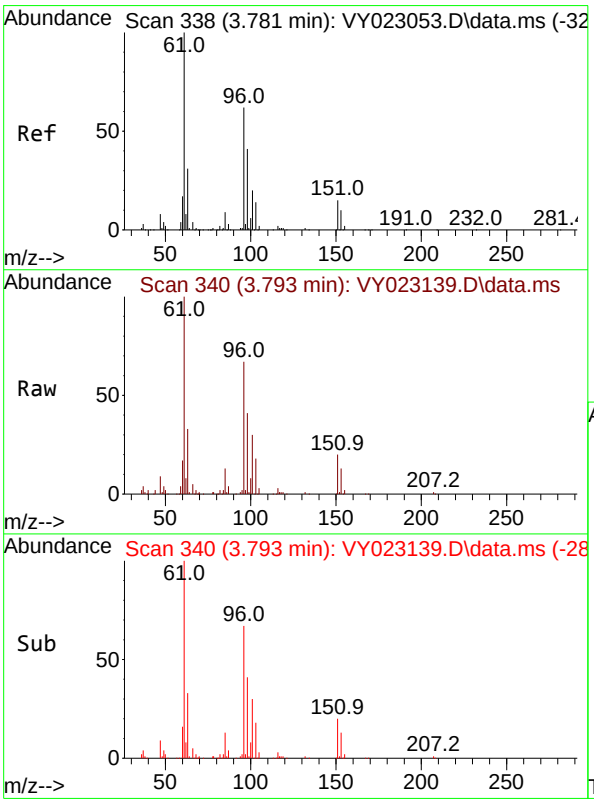
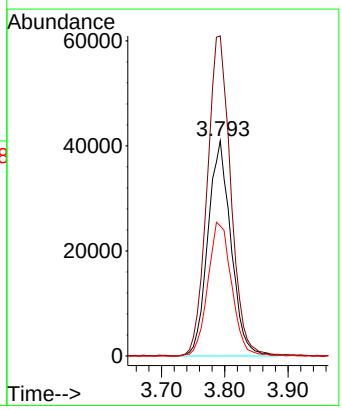
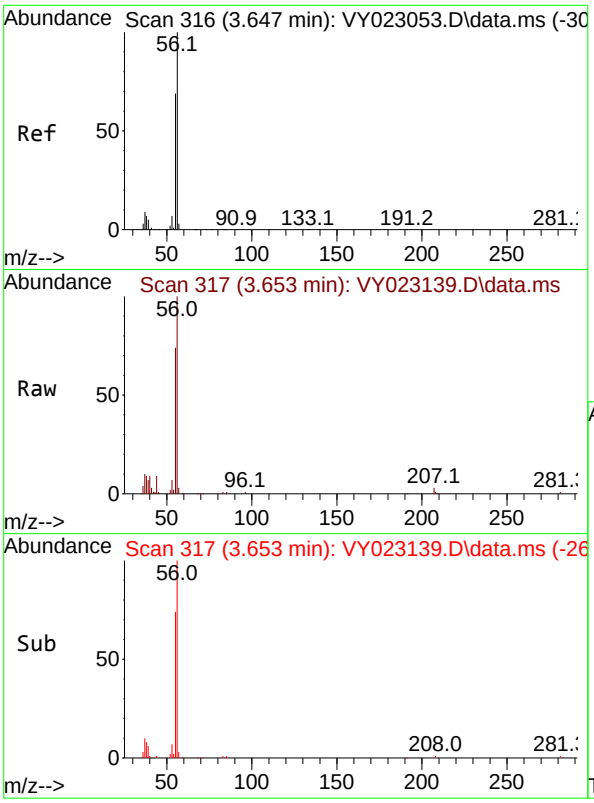


#12
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 103754

Ion	Ratio	Lower	Upper
96	100		
61	148.7	129.4	194.2
98	60.4	52.8	79.2

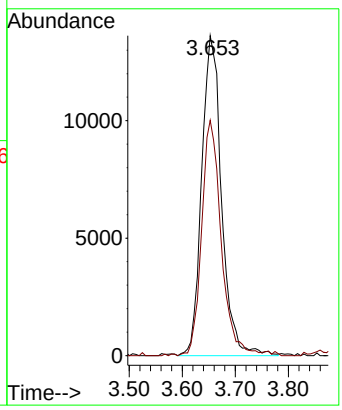




#13
Acrolein
Concen: 71.706 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 56 Resp: 3549

Ion	Ratio	Lower	Upper
56	100		
55	72.0	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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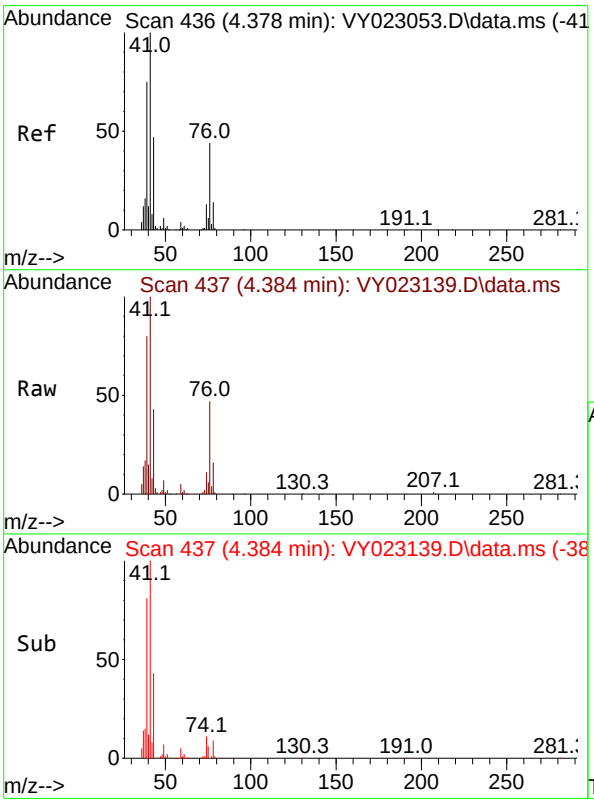
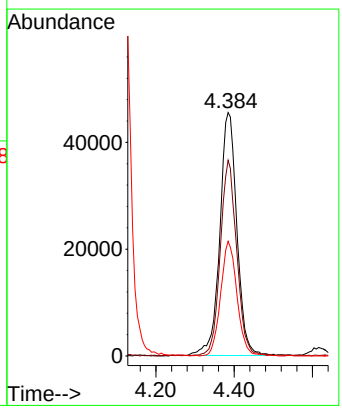
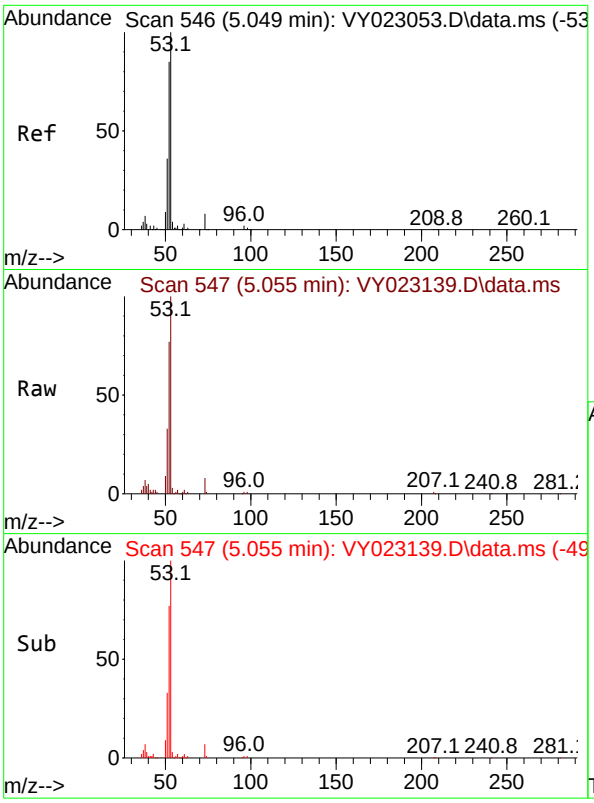


#14
Allyl chloride
Concen: 18.846 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 138299

Ion	Ratio	Lower	Upper
41	100		
39	77.1	59.8	89.6
76	45.1	33.7	50.5

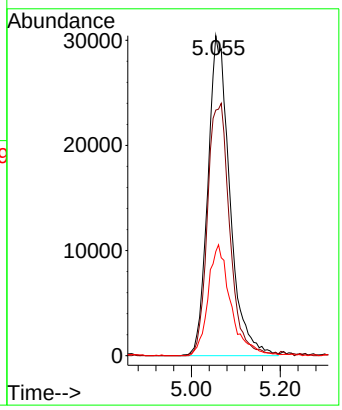




#15
Acrylonitrile
Concen: 94.488 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 53 Resp: 10452

Ion	Ratio	Lower	Upper
53	100		
52	79.8	65.3	97.9
51	35.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
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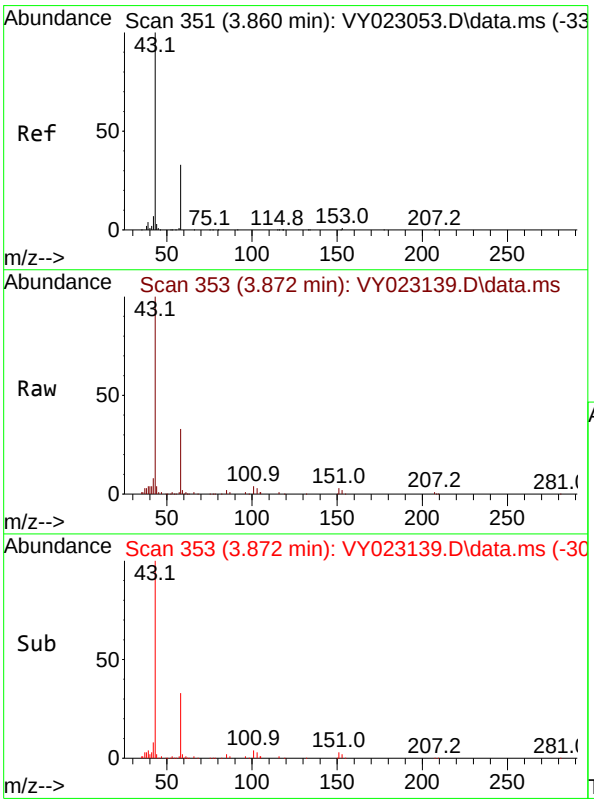
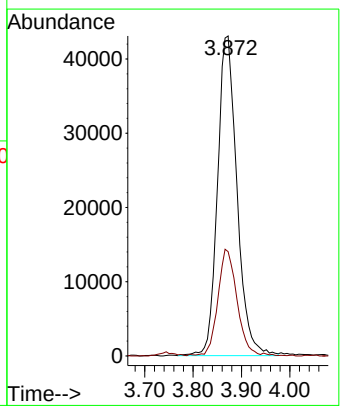
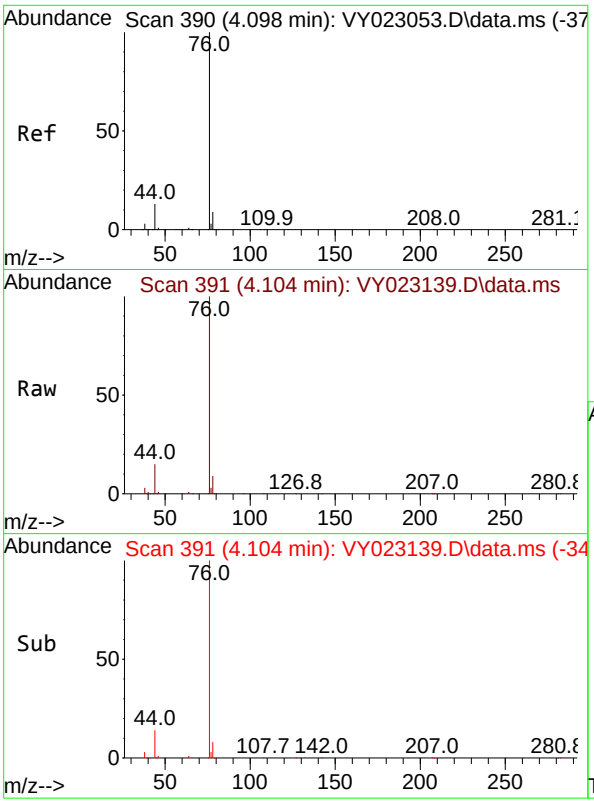


#16
Acetone
Concen: 112.685 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 120414

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7





#17
Carbon Disulfide
Concen: 19.905 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 76 Resp: 32368

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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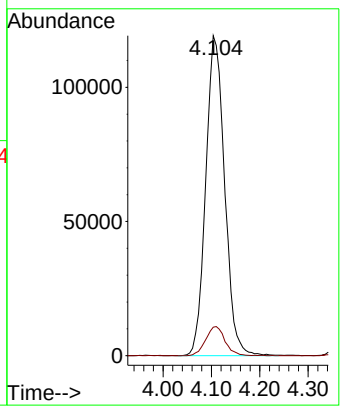
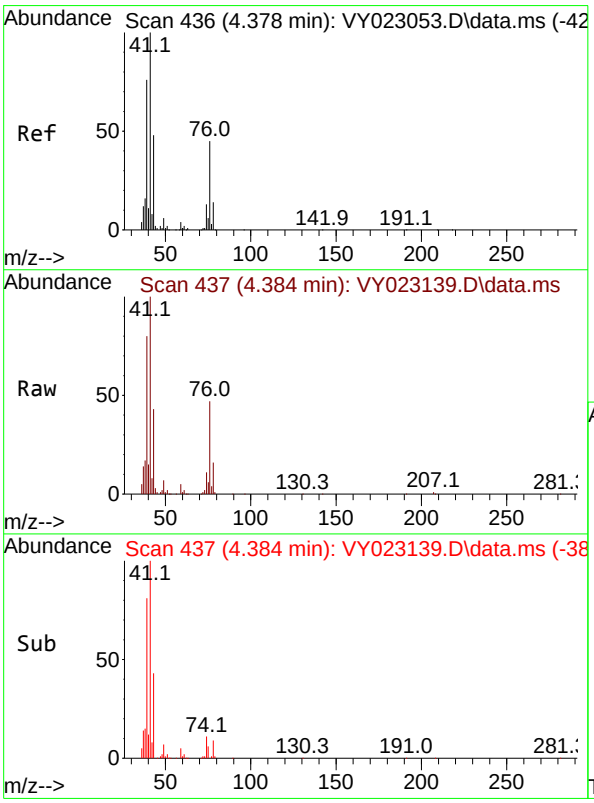
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

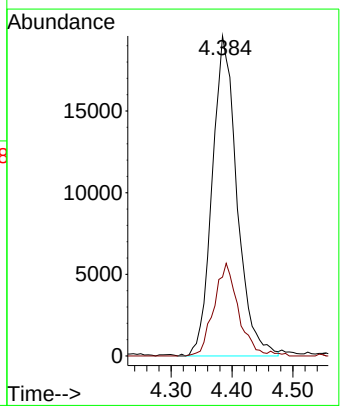


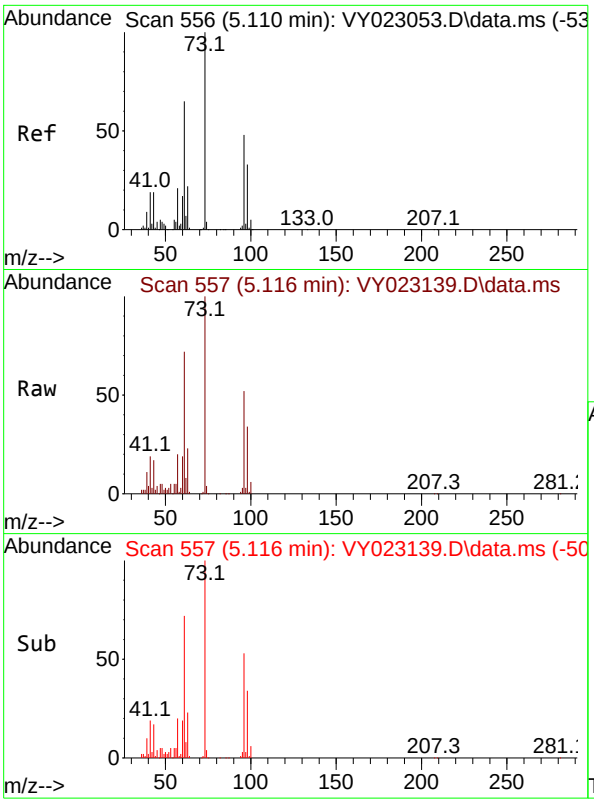


#18
Methyl Acetate
Concen: 17.426 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 55412

Ion	Ratio	Lower	Upper
43	100		
74	28.3	21.2	31.8

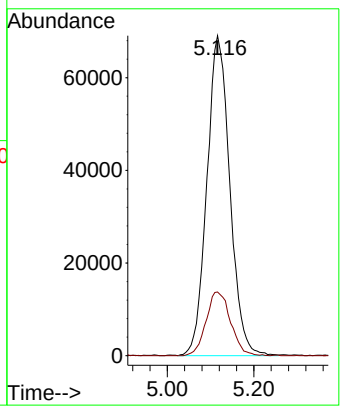




#19
Methyl tert-butyl Ether
Concen: 19.720 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 73 Resp: 25484

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.1	25.7



Instrument :
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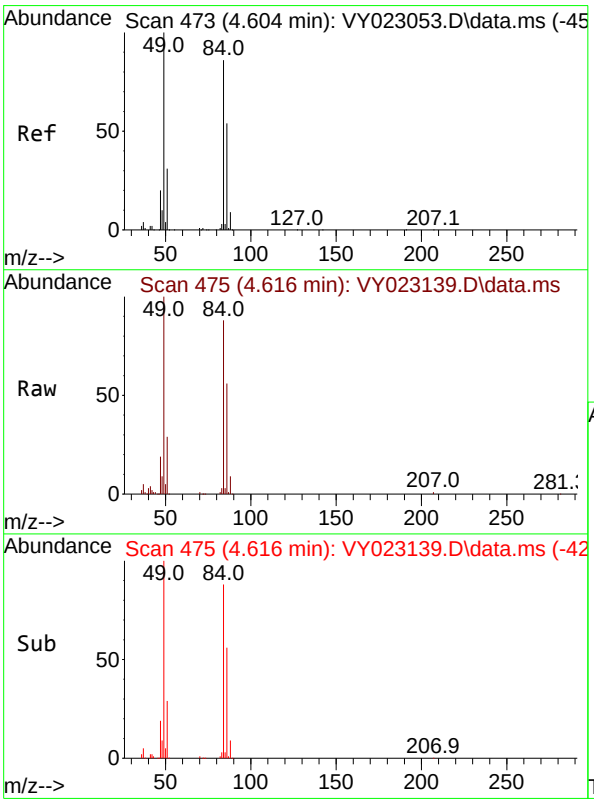
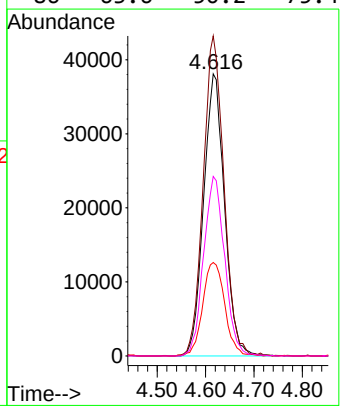
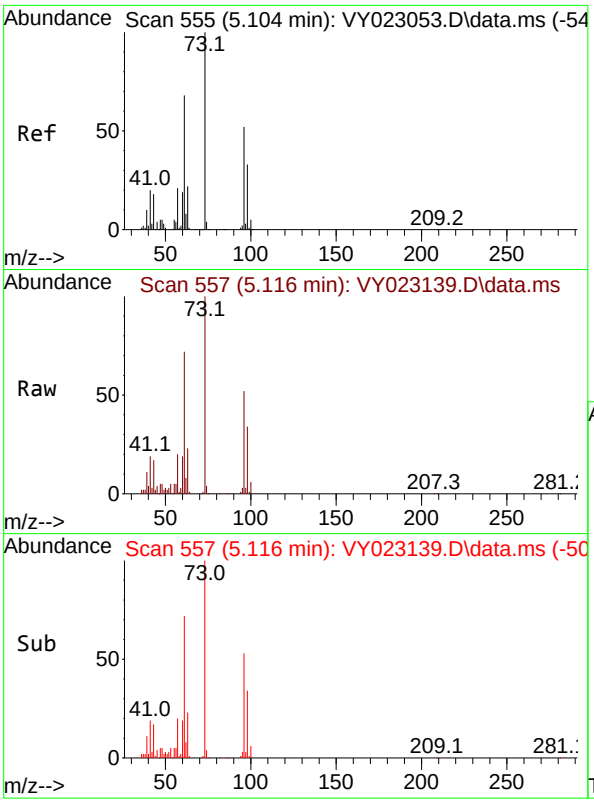


#20
Methylene Chloride
Concen: 18.875 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 84 Resp: 114203

Ion	Ratio	Lower	Upper
84	100		
49	113.2	93.0	139.6
51	33.1	29.0	43.4
86	63.6	50.2	75.4

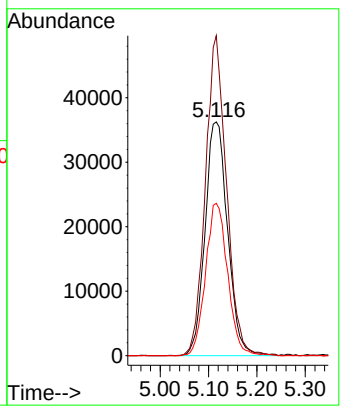




#21
trans-1,2-Dichloroethene
Concen: 20.993 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 11765

Ion	Ratio	Lower	Upper
96	100		
61	136.8	104.8	157.2
98	65.2	50.1	75.1



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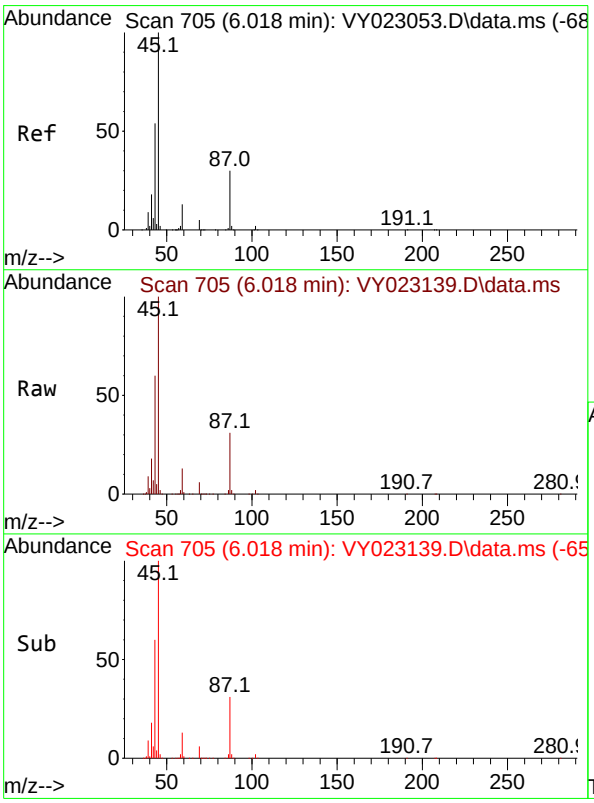
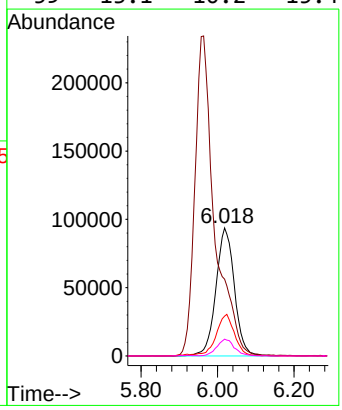
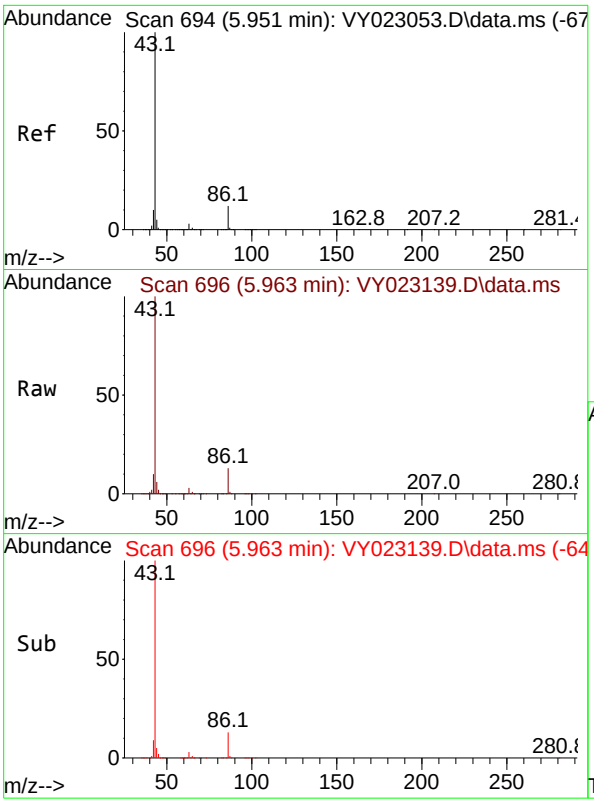


#22
Diisopropyl ether
Concen: 19.728 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 45 Resp: 314582

Ion	Ratio	Lower	Upper
45	100		
43	59.6	43.4	65.0
87	31.1	24.4	36.6
59	13.1	10.2	15.4





#23
Vinyl Acetate
Concen: 94.938 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 83710

Ion	Ratio	Lower	Upper
43	100		
86	13.2	9.6	14.4

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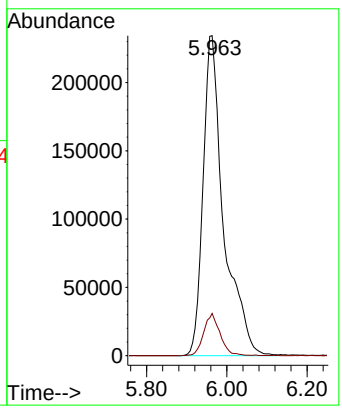
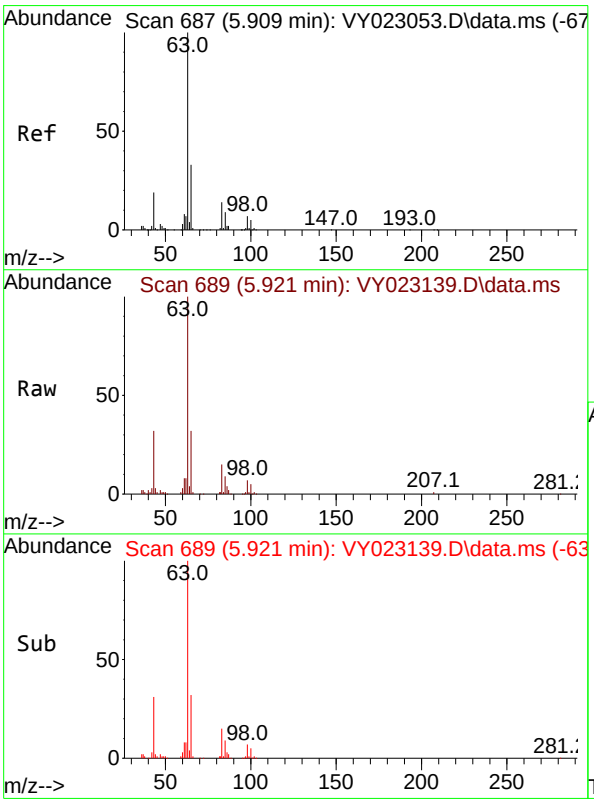
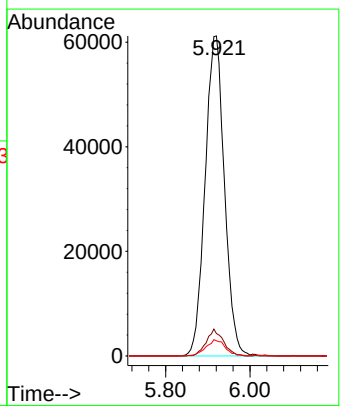


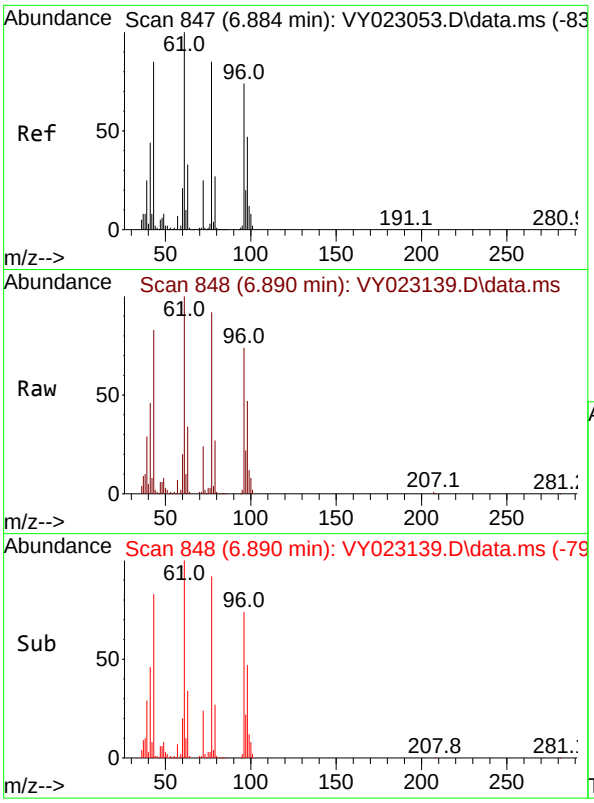


#24
1,1-Dichloroethane
Concen: 19.979 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 194782

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	4.7	2.4	7.1

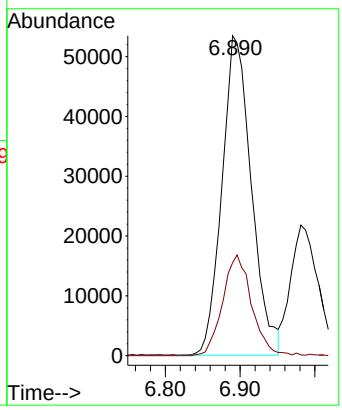




#25
2-Butanone
Concen: 100.847 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 14656

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.5	35.3



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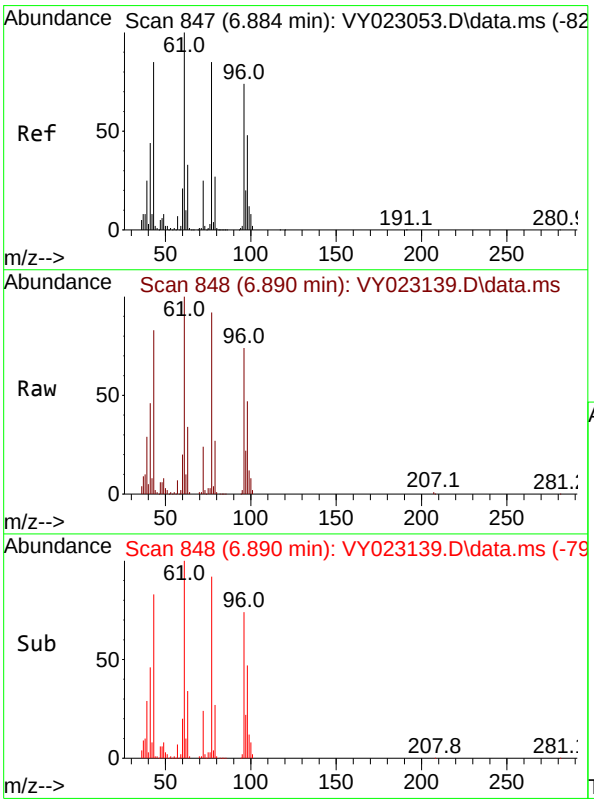
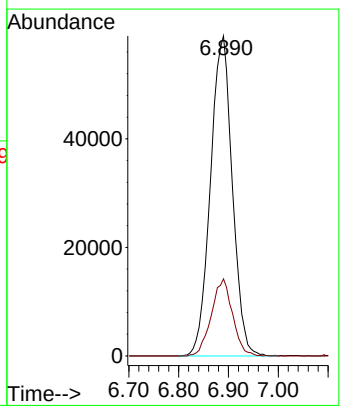
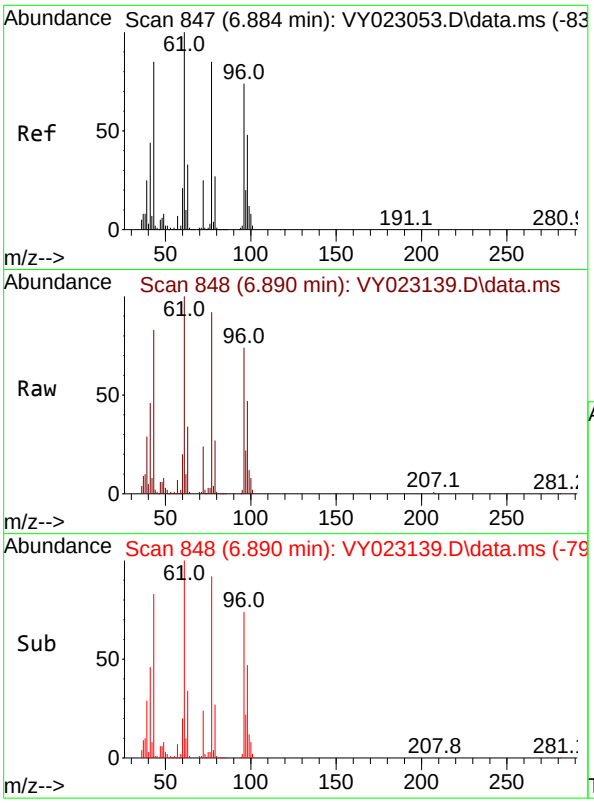


#26
2,2-Dichloropropane
Concen: 21.352 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 77 Resp: 179625

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 20.582 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 13335

Ion	Ratio	Lower	Upper
96	100		
61	135.3	0.0	278.6
98	64.1	0.0	130.4

Instrument :
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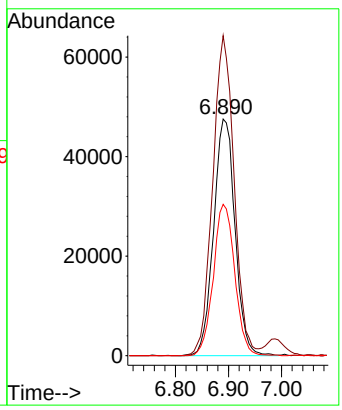
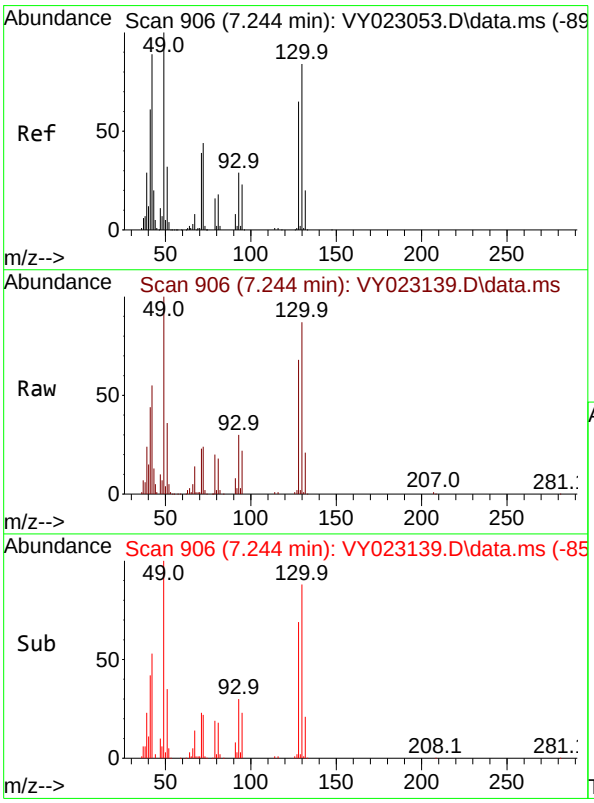
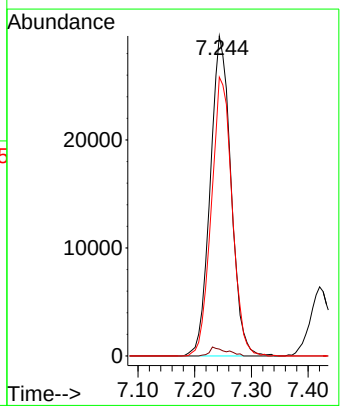


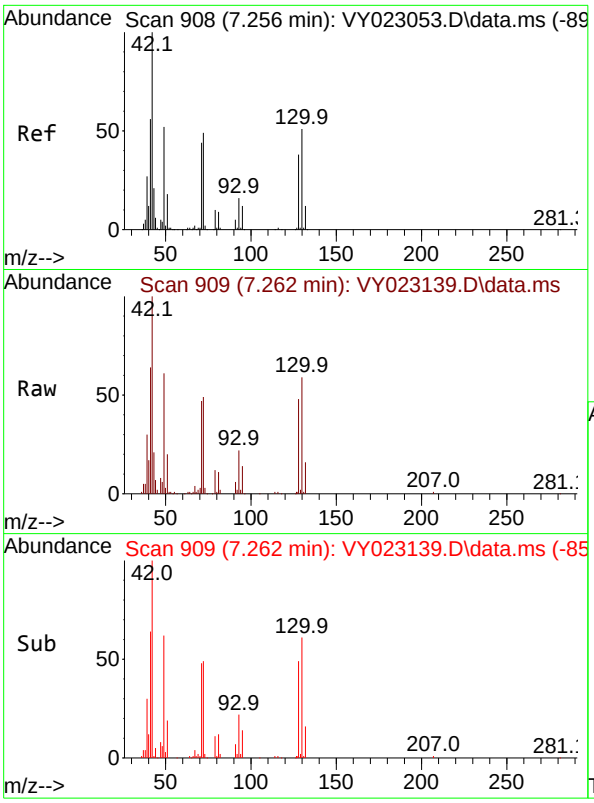


#28
Bromochloromethane
Concen: 19.474 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 49 Resp: 75324

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	87.0	66.4	99.6





#29
Tetrahydrofuran
Concen: 90.389 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 42 Resp: 8142

Ion	Ratio	Lower	Upper
42	100		
72	49.9	39.4	59.2
71	47.8	36.5	54.7

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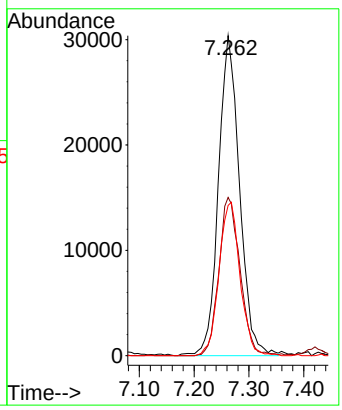
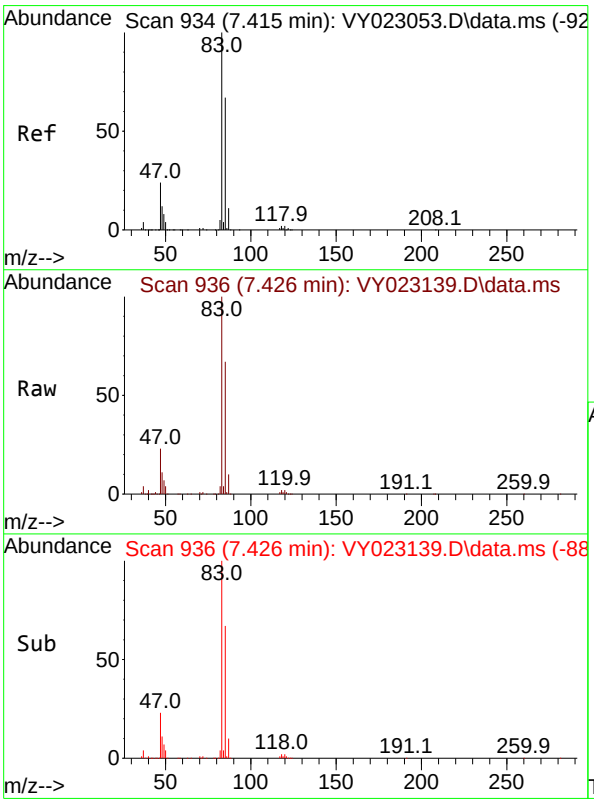
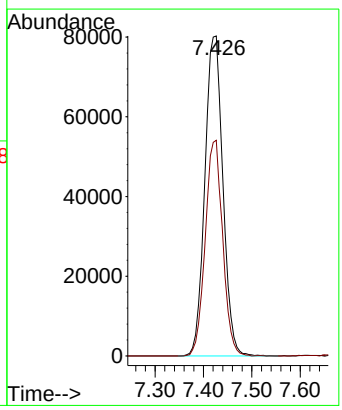


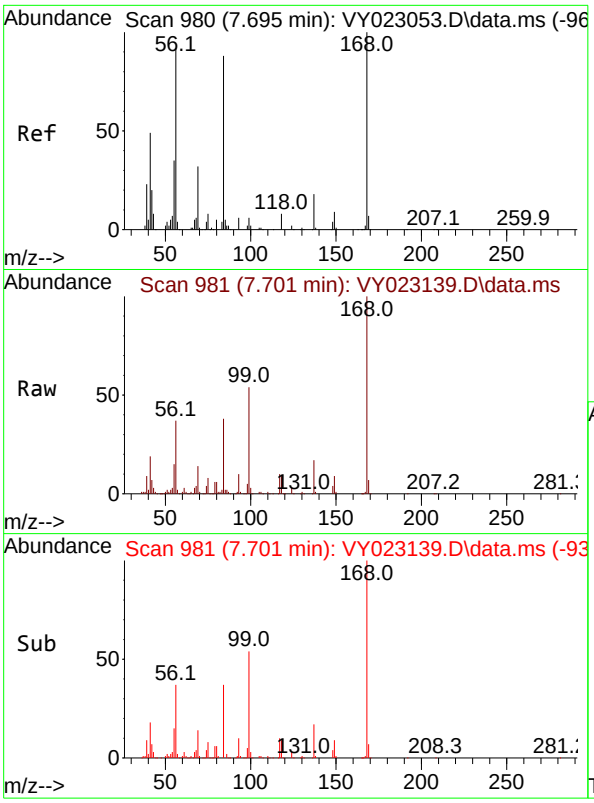


#30
Chloroform
Concen: 20.690 ug/l
RT: 7.426 min Scan# 936
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 208029

Ion	Ratio	Lower	Upper
83	100		
85	67.4	53.8	80.8





#31
Cyclohexane
Concen: 19.640 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 56 Resp: 18044

Ion	Ratio	Lower	Upper
56	100		
69	38.6	28.2	42.2
84	101.0	76.6	114.8

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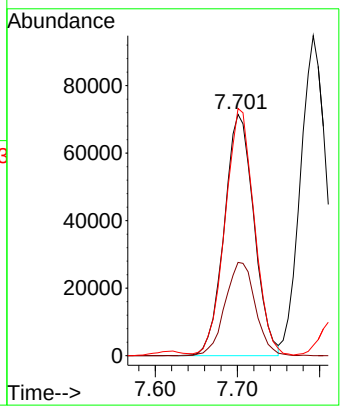
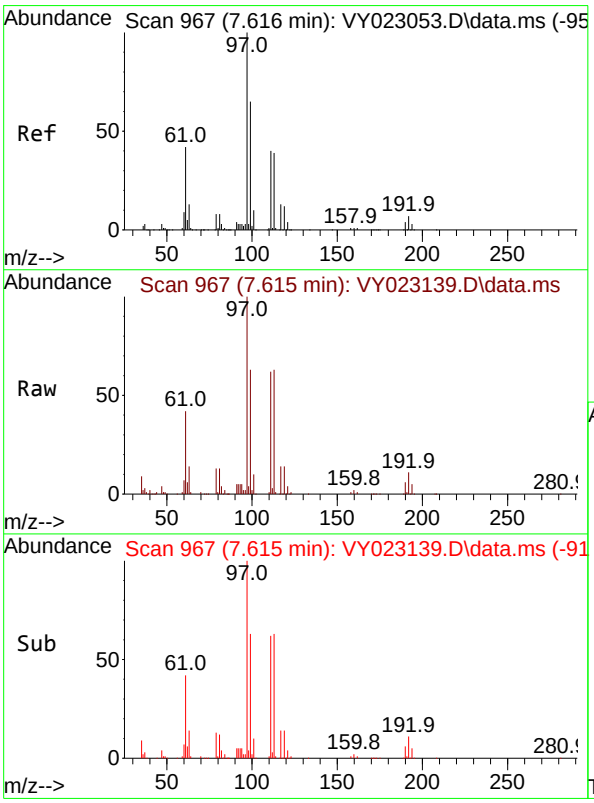
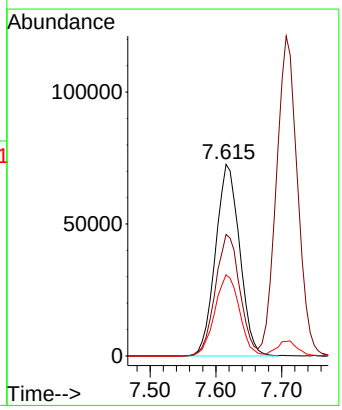


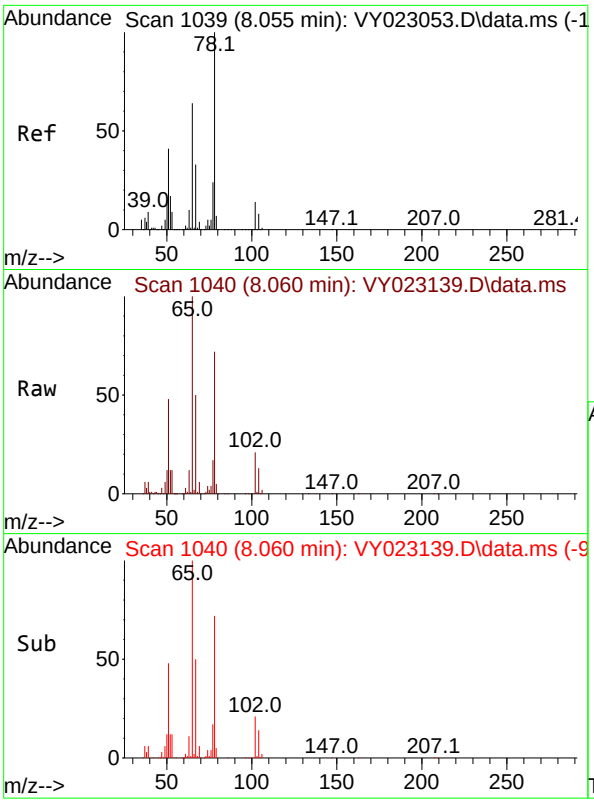


#32
1,1,1-Trichloroethane
Concen: 20.833 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 97 Resp: 185862

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	43.2	34.2	51.2

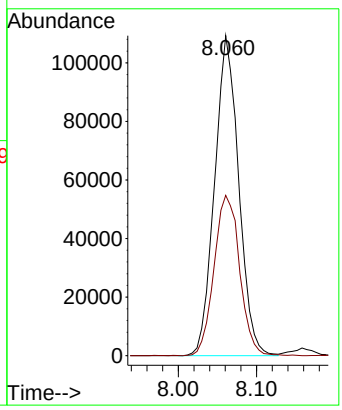




#33
1,2-Dichloroethane-d4
Concen: 47.365 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 65 Resp: 23362

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8



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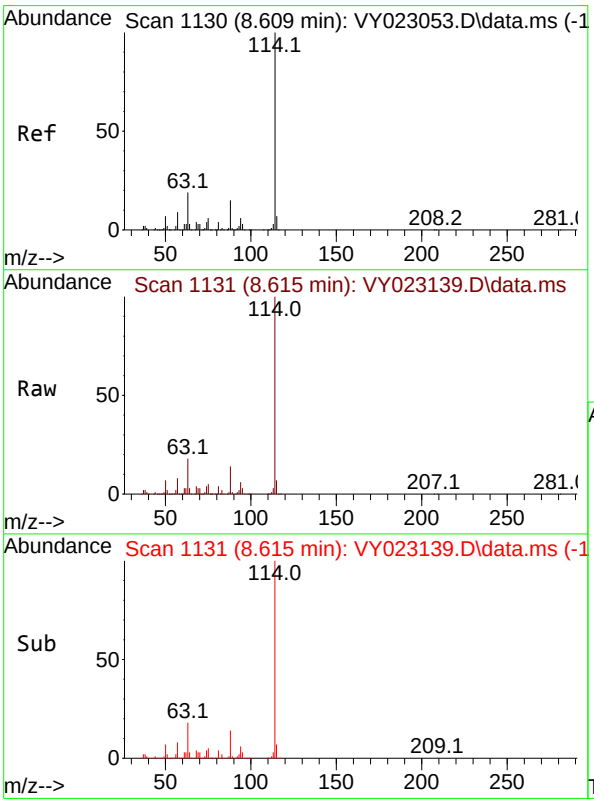
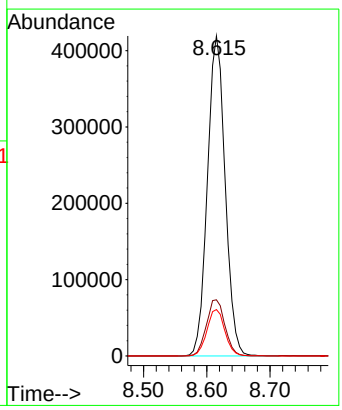
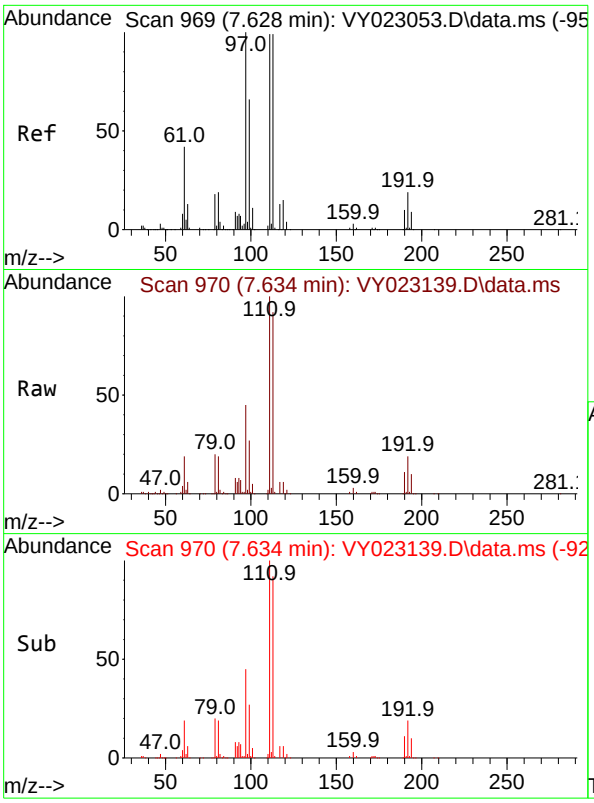


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:114 Resp: 816918

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	38.4
88	14.5	0.0	30.0

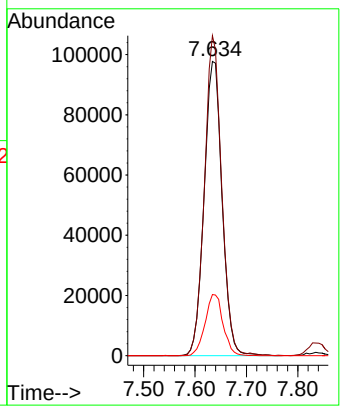




#35
Dibromofluoromethane
Concen: 48.567 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:113 Resp: 23740

Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.1	121.7
192	20.8	16.2	24.4



Instrument :
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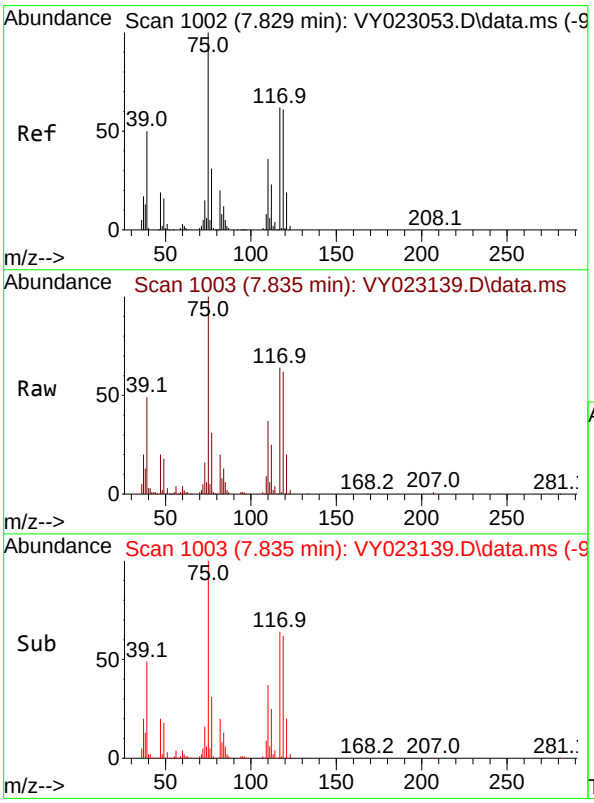
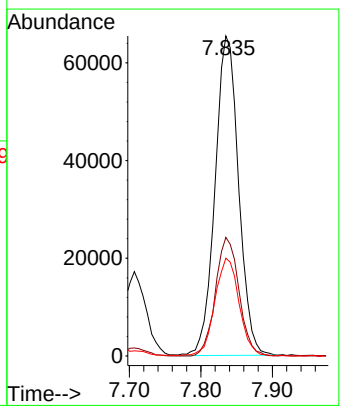
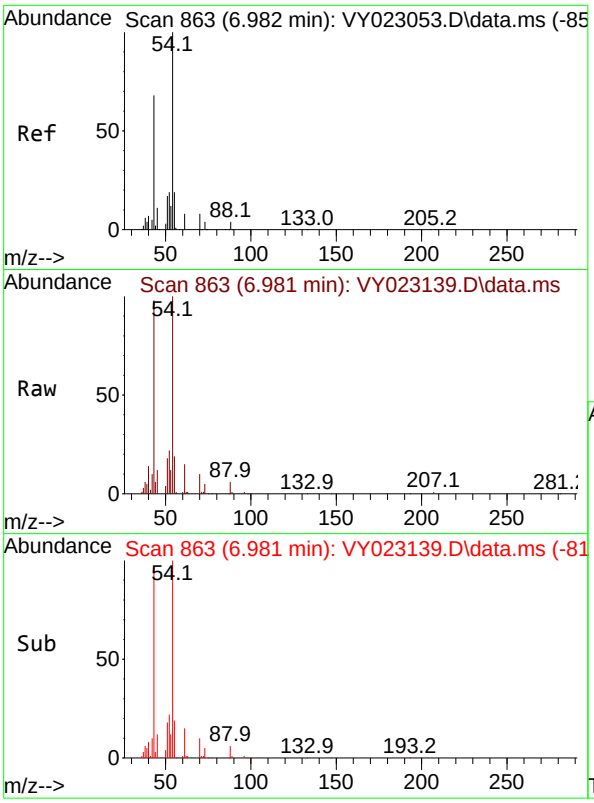


#36
1,1-Dichloropropene
Concen: 20.606 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 149696

Ion	Ratio	Lower	Upper
75	100		
110	37.0	18.1	54.4
77	31.6	24.6	37.0





#37
Ethyl Acetate
Concen: 18.660 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 5694

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.9	17.9
70	12.3	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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Reviewed By :John Carlone 08/20/2025
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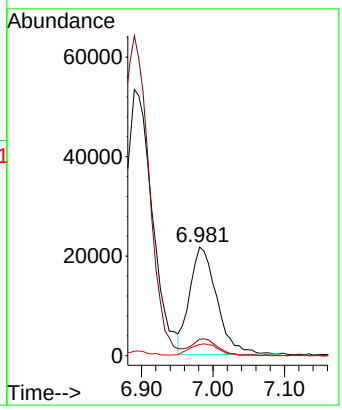
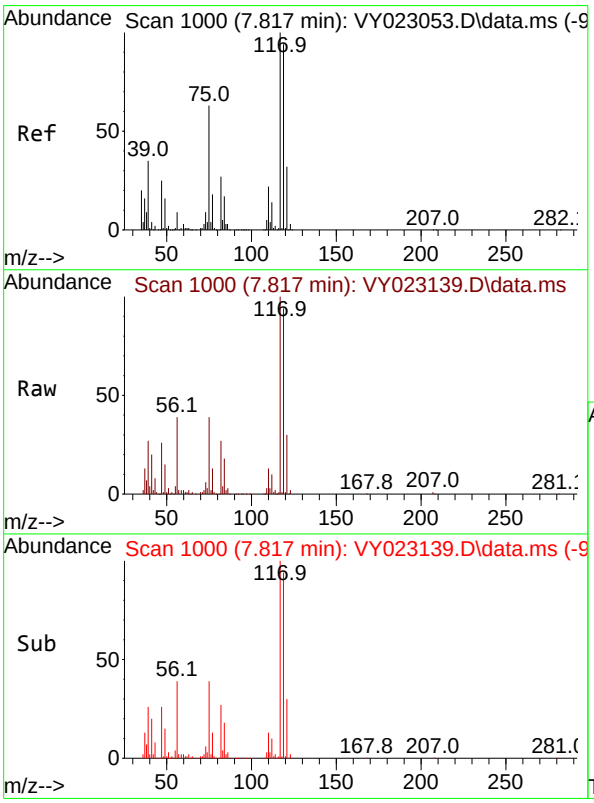
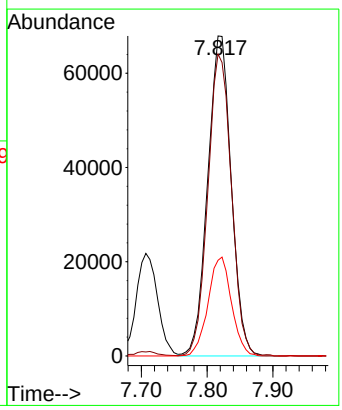


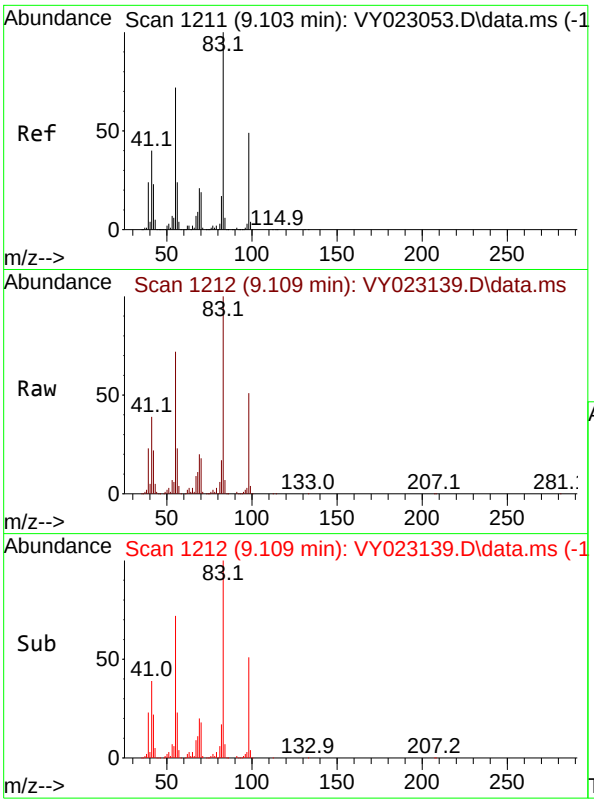


#38
Carbon Tetrachloride
Concen: 21.430 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 169089

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.6	113.4
121	29.9	25.8	38.8





#39
Methylcyclohexane
Concen: 20.803 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 19901

Ion	Ratio	Lower	Upper
83	100		
55	72.0	57.6	86.4
98	50.6	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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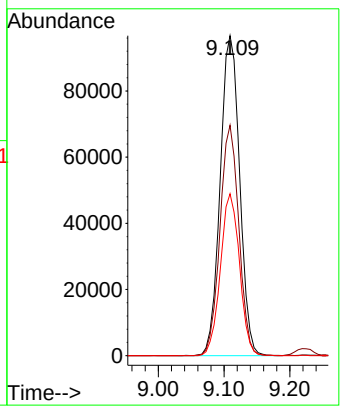
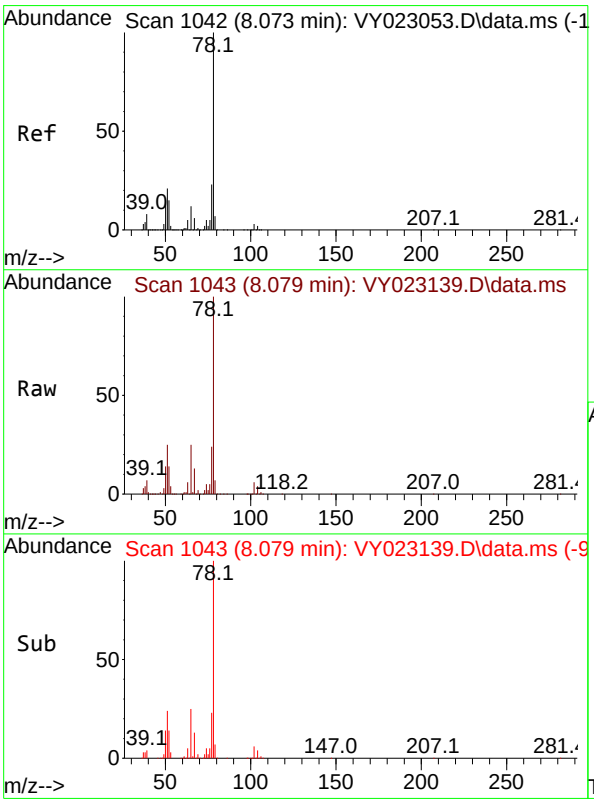
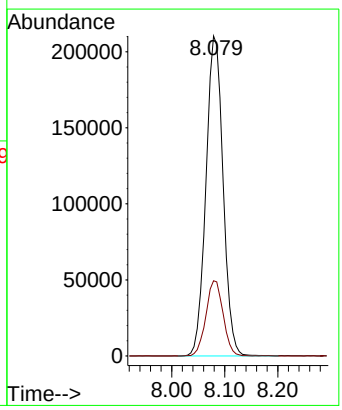


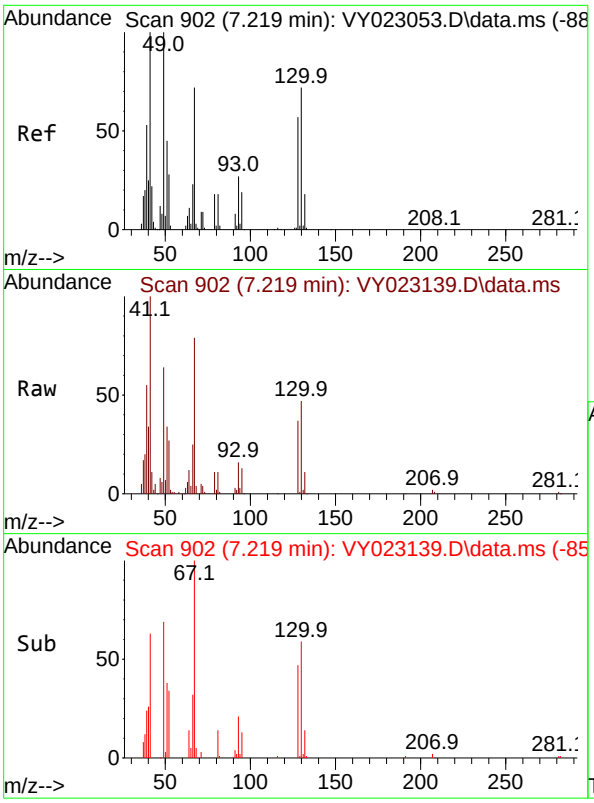


#40
Benzene
Concen: 21.055 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 78 Resp: 471421

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0

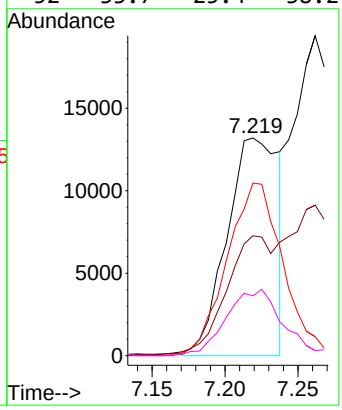




#41
Methacrylonitrile
Concen: 18.482 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 3254

Ion	Ratio	Lower	Upper
41	100		
39	47.7	43.4	65.2
67	86.5	63.6	95.4
52	33.7	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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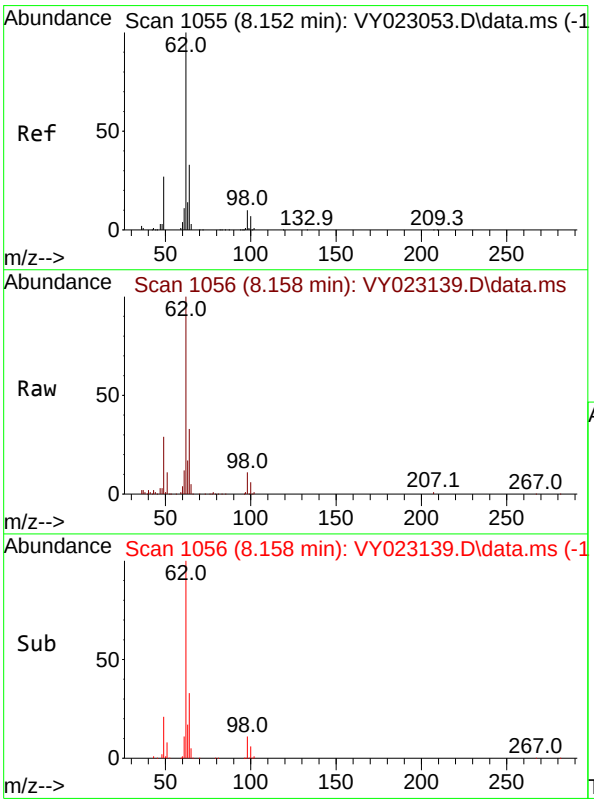
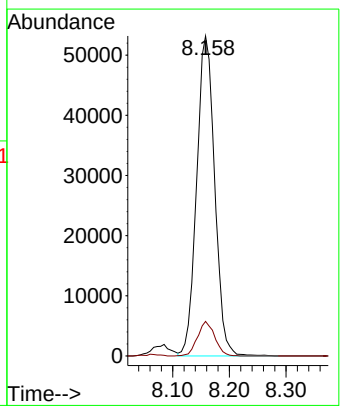
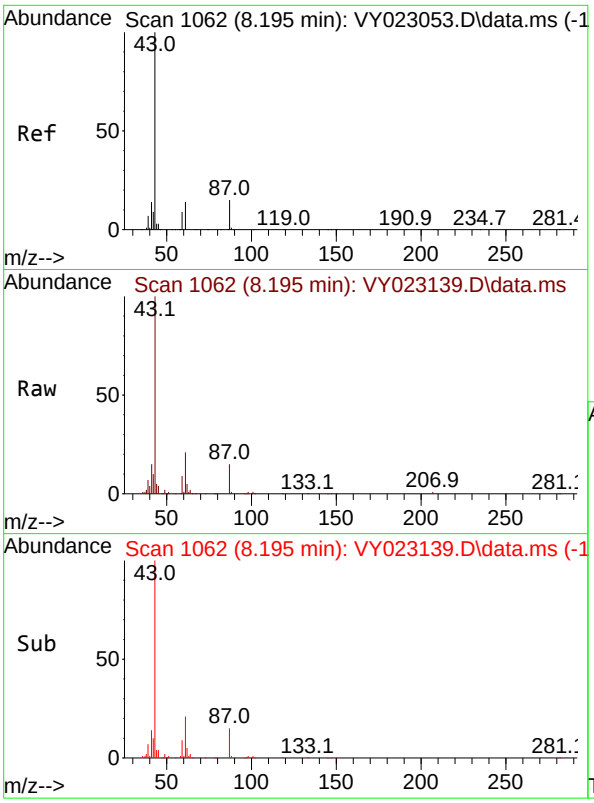


#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 117552

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6





#43
Isopropyl Acetate
Concen: 18.431 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 11368

Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.4	24.6
87	15.4	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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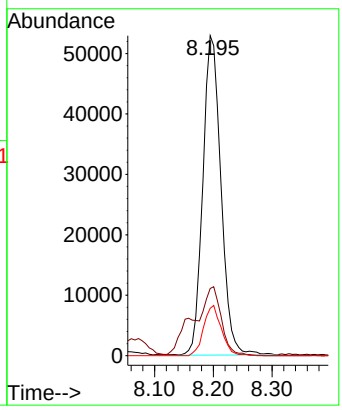
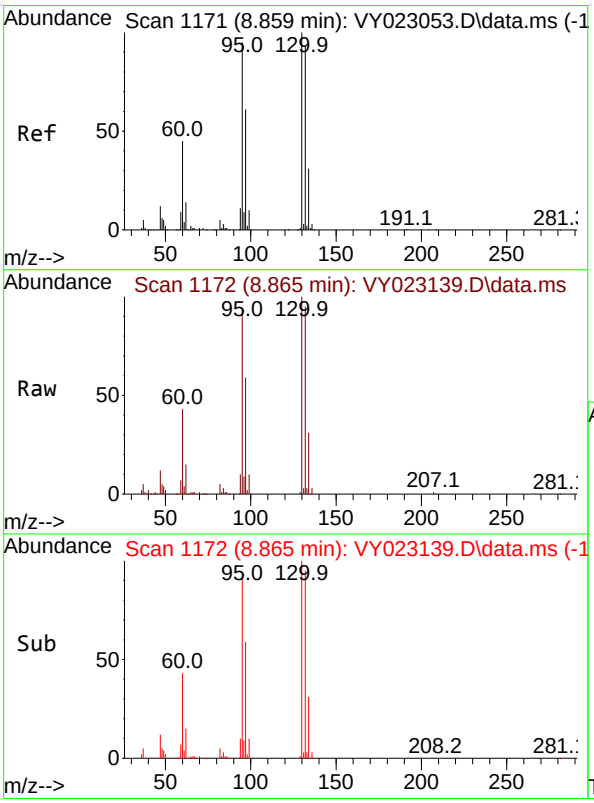
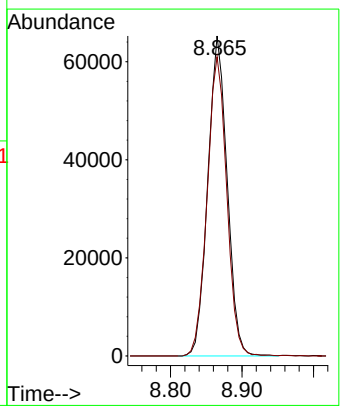


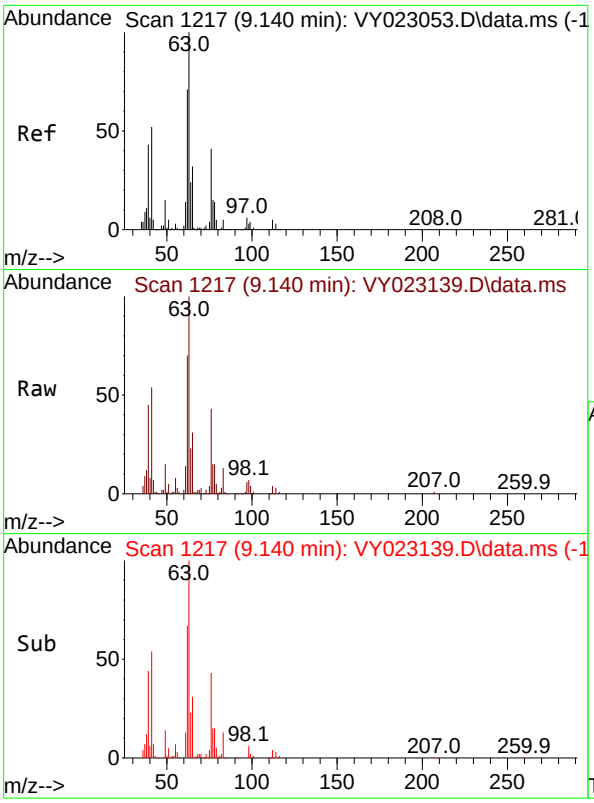


#44
Trichloroethene
Concen: 21.187 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:130 Resp: 122590

Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	190.2

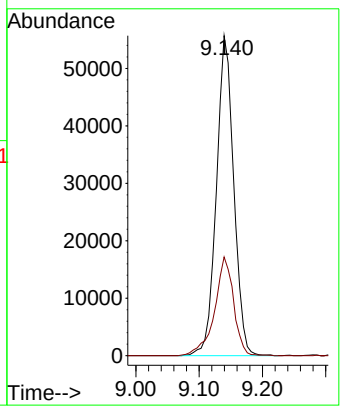




#45
1,2-Dichloropropane
Concen: 20.506 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 10564

Ion	Ratio	Lower	Upper
63	100		
65	30.9	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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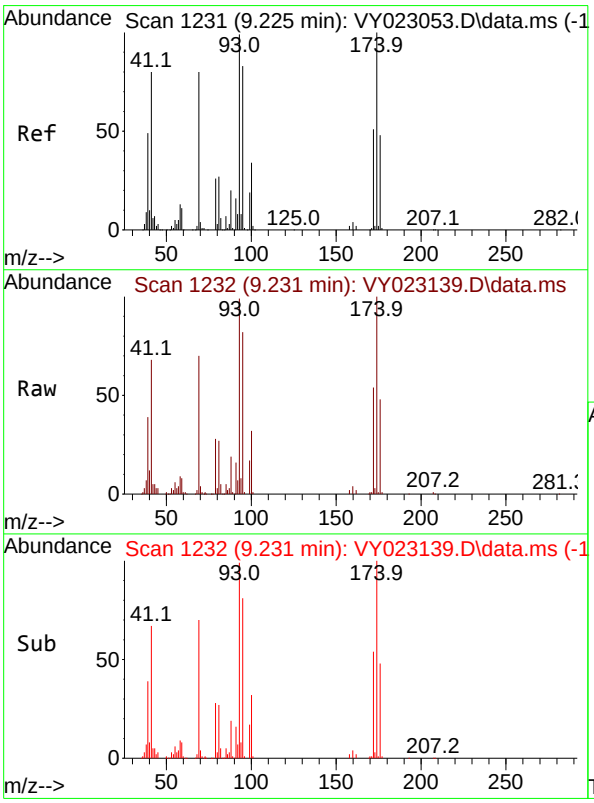
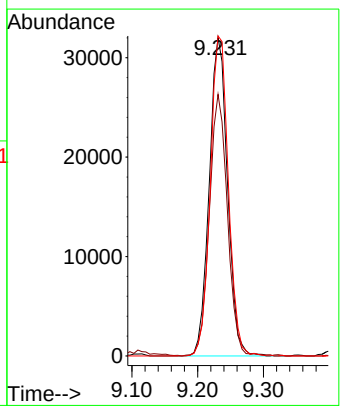
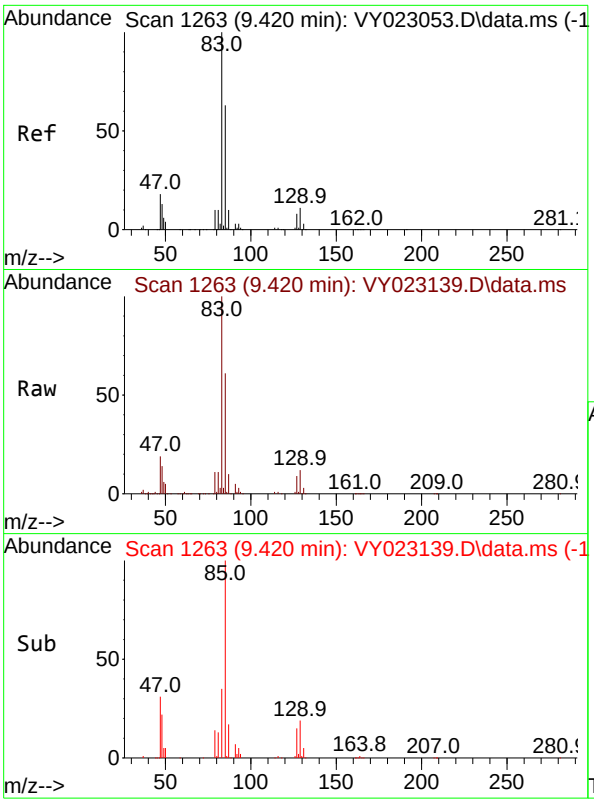


#46
Dibromomethane
Concen: 20.972 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 93 Resp: 62014

Ion	Ratio	Lower	Upper
93	100		
95	81.1	66.5	99.7
174	99.4	81.8	122.8

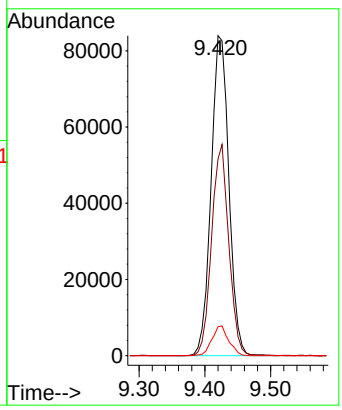




#47
Bromodichloromethane
Concen: 20.725 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 15769

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.2	75.4
127	9.1	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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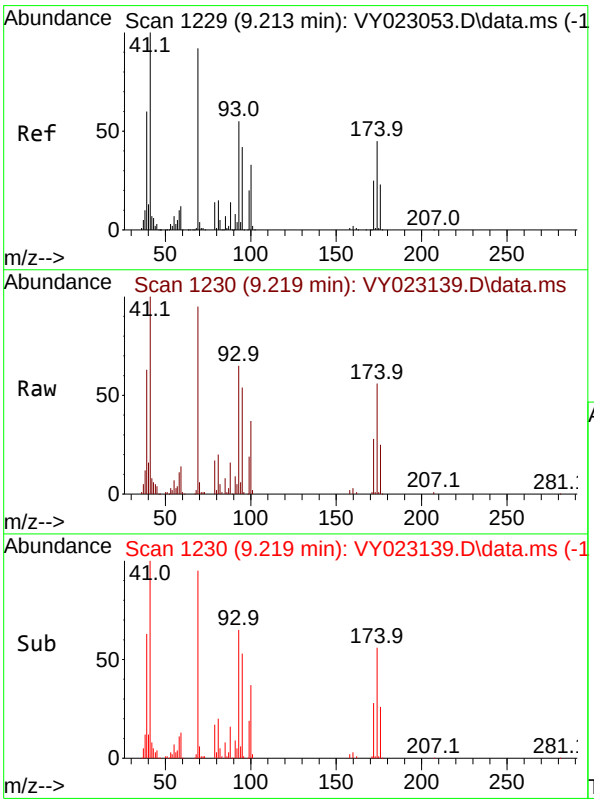
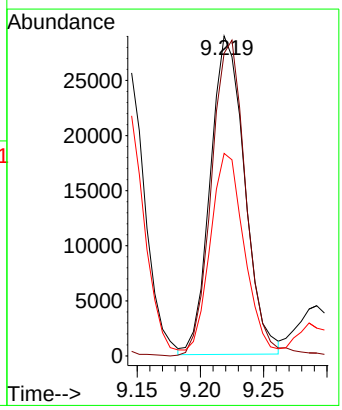
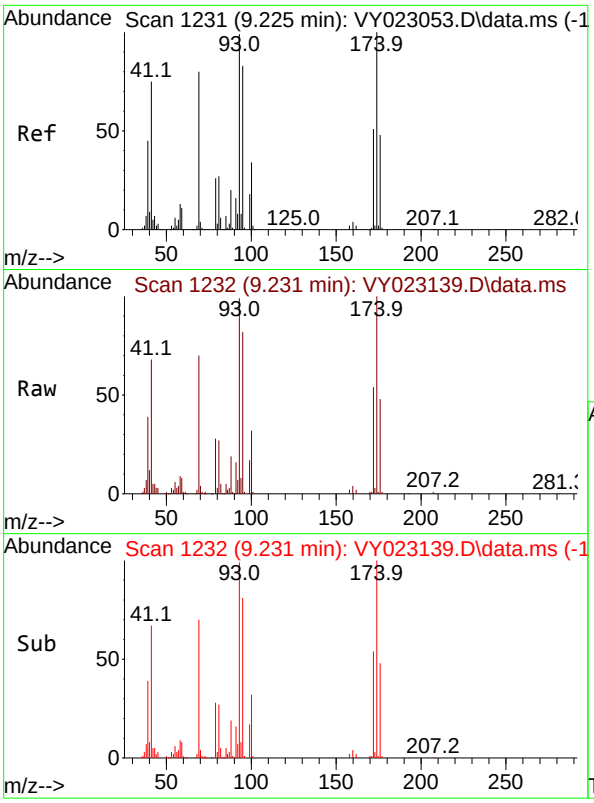


#48
Methyl methacrylate
Concen: 18.499 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 54599

Ion	Ratio	Lower	Upper
41	100		
69	99.3	73.2	109.8
39	62.8	47.0	70.4





#49
1,4-Dioxane
Concen: 383.459 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 88 Resp: 1329

Ion	Ratio	Lower	Upper
88	100		
43	29.3	24.3	36.5
58	65.0	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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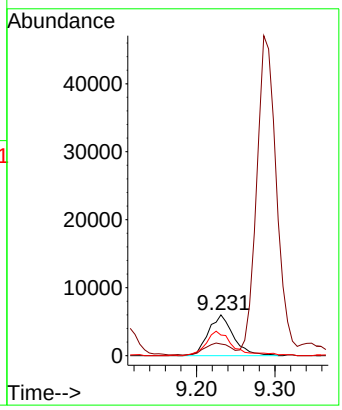
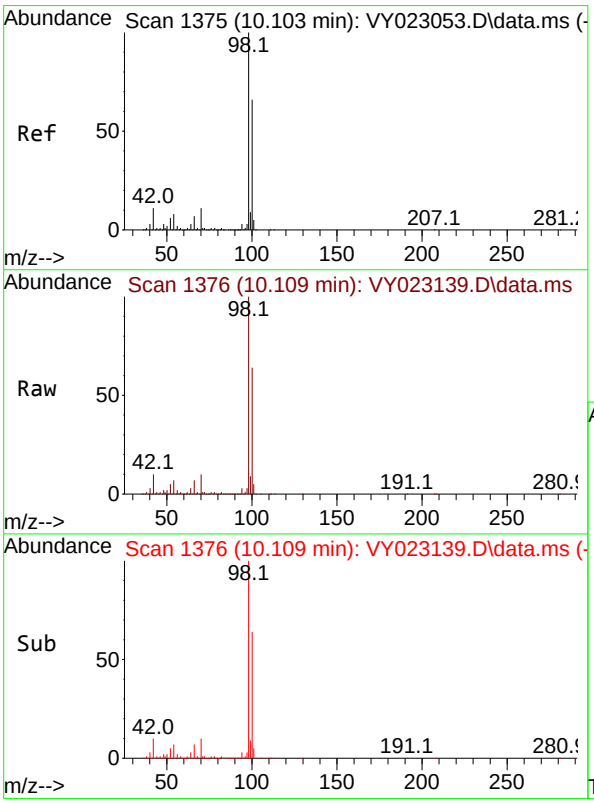
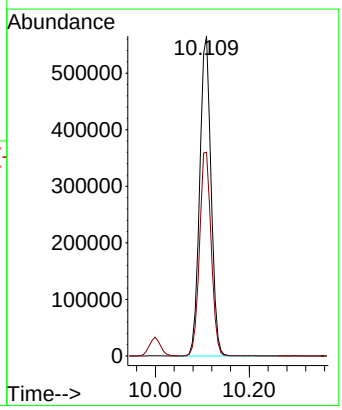


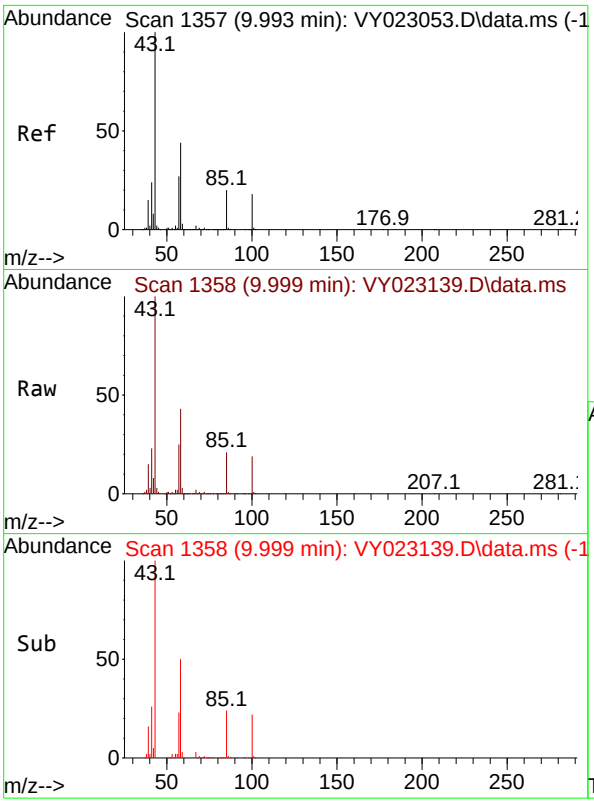


#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 98 Resp: 947313

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5

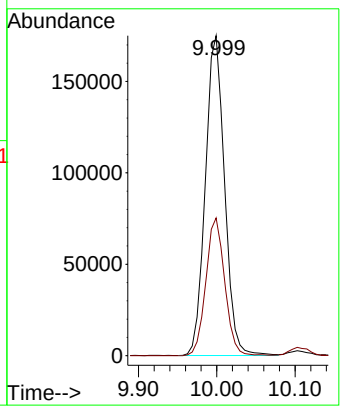




#51
4-Methyl-2-Pentanone
Concen: 93.721 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 29817

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
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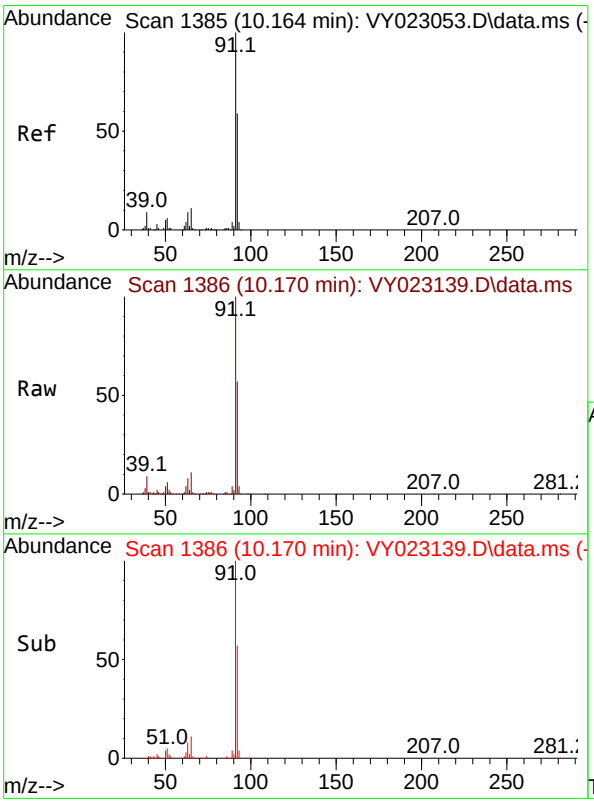
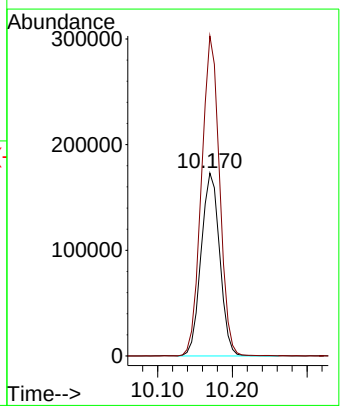
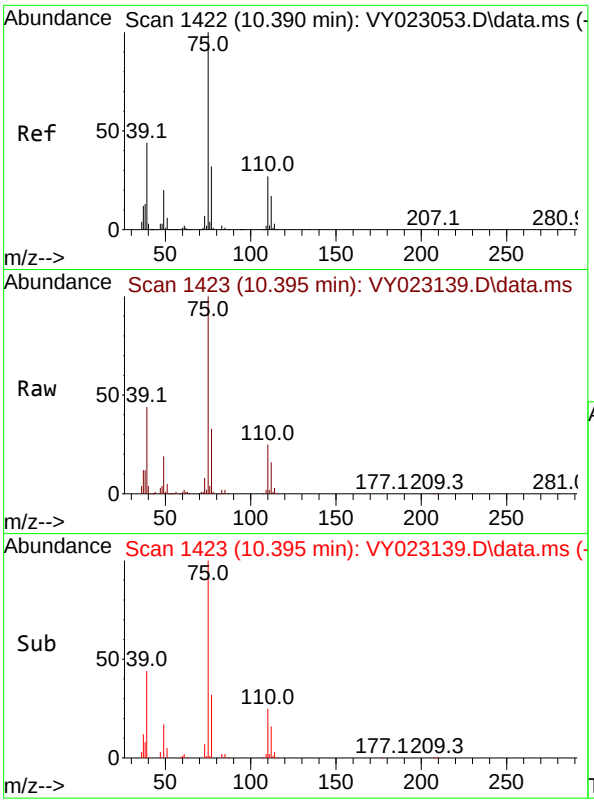


#52
Toluene
Concen: 21.028 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 92 Resp: 299030

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 13879

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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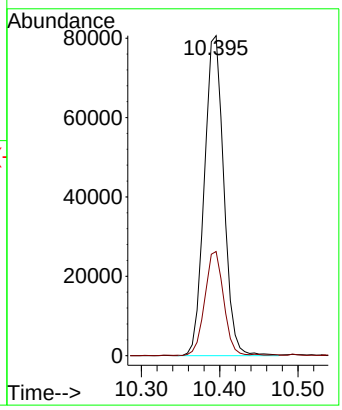
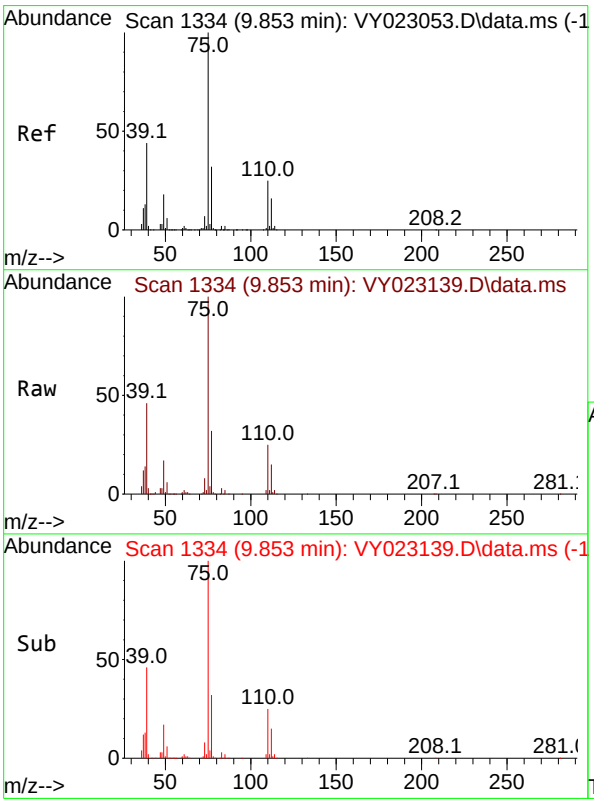
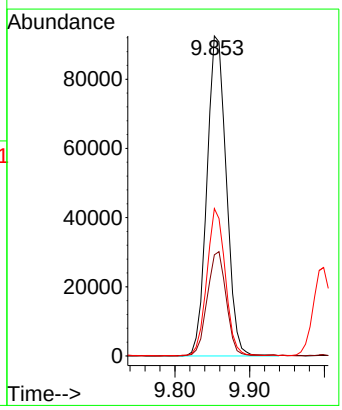


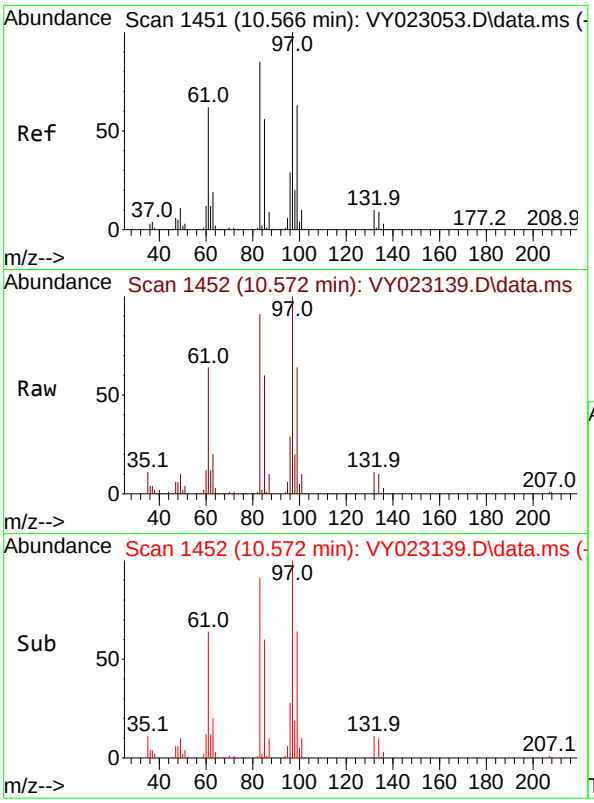


#54
cis-1,3-Dichloropropene
Concen: 20.453 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 166637

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	46.0	35.6	53.4

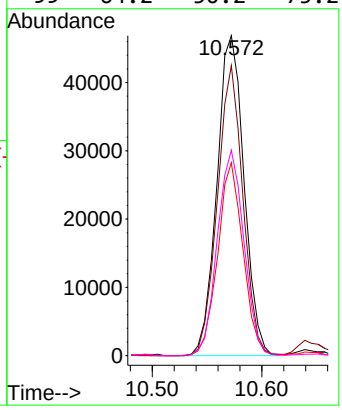




#55
1,1,2-Trichloroethane
Concen: 20.350 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 97 Resp: 8052

Ion	Ratio	Lower	Upper
97	100		
83	90.7	67.7	101.5
85	60.3	44.5	66.7
99	64.2	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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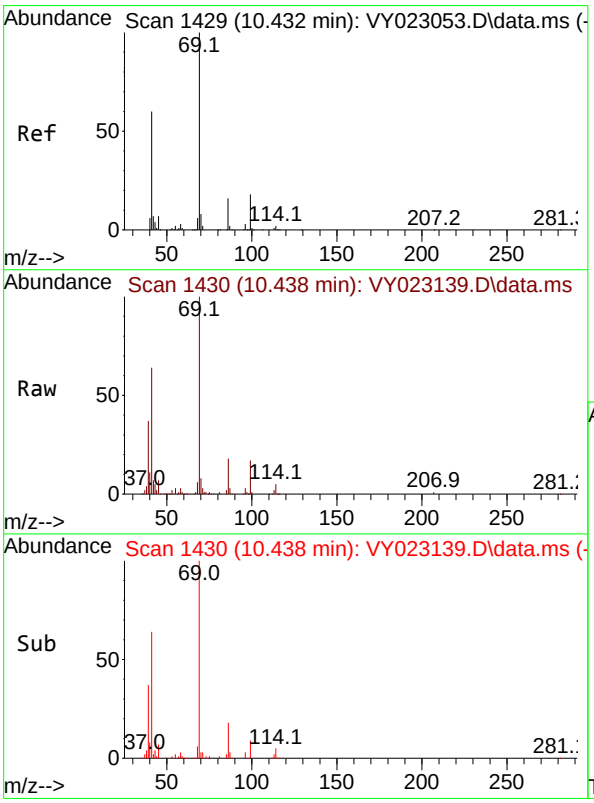
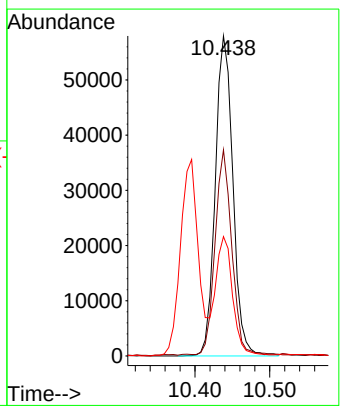
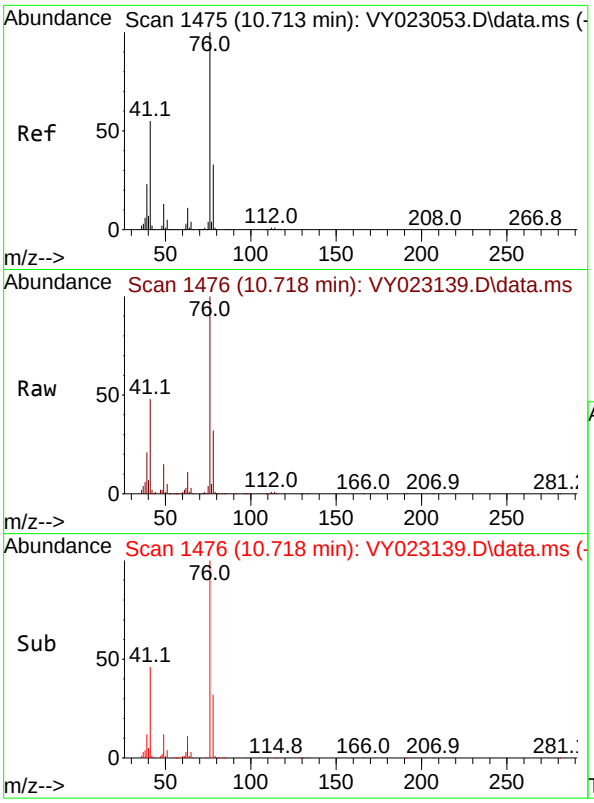


#56
Ethyl methacrylate
Concen: 18.741 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 69 Resp: 94888

Ion	Ratio	Lower	Upper
69	100		
41	61.1	48.6	72.8
39	34.5	27.0	40.4





#57
1,3-Dichloropropane
Concen: 20.594 ug/l
RT: 10.718 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 76 Resp: 13819

Ion	Ratio	Lower	Upper
76	100		
78	31.3	26.0	39.0

Instrument :
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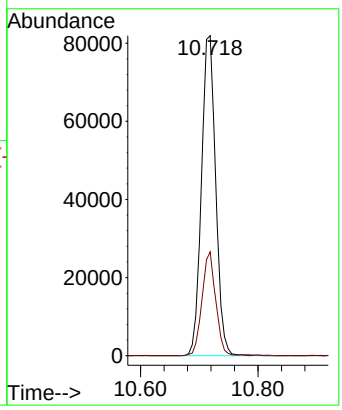
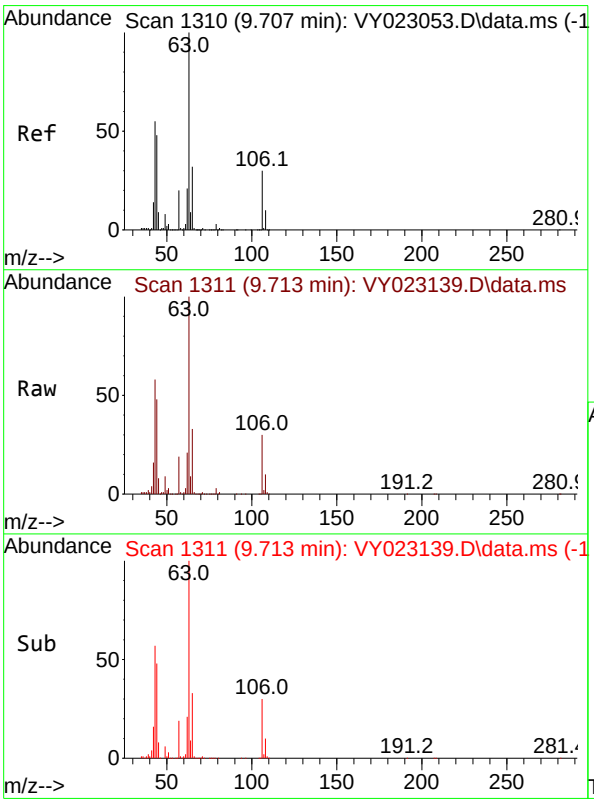
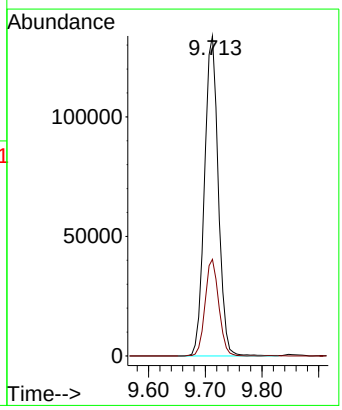


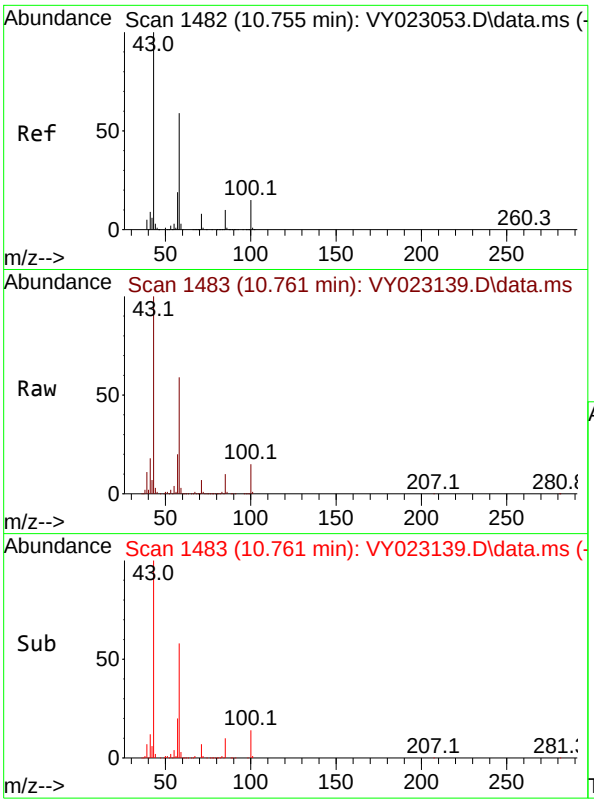


#58
2-Chloroethyl Vinyl ether
Concen: 94.672 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 226098

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.2	34.8





#59
2-Hexanone
Concen: 99.034 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 21454

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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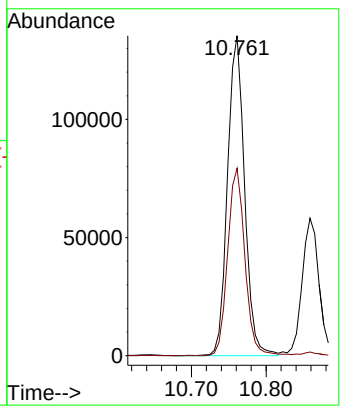
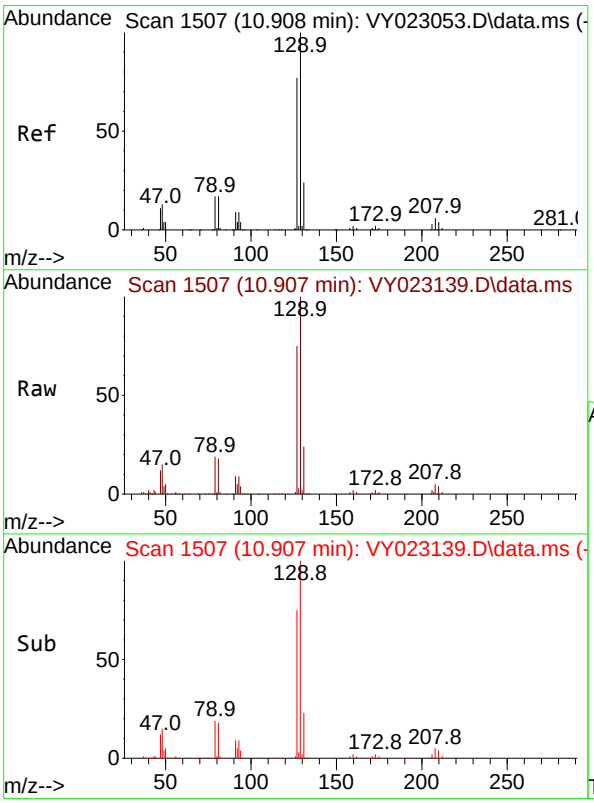
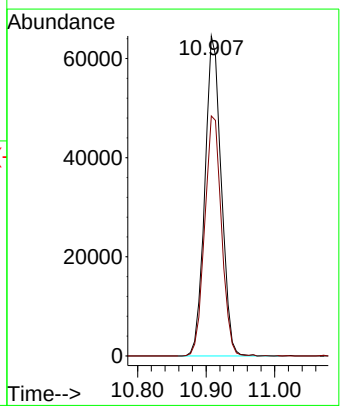


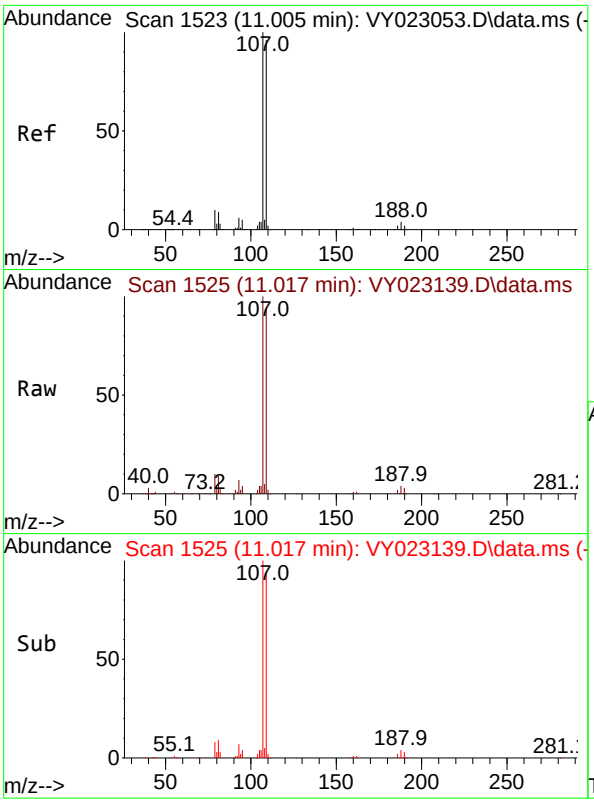


#60
Dibromochloromethane
Concen: 20.554 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:129 Resp: 107311

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.5

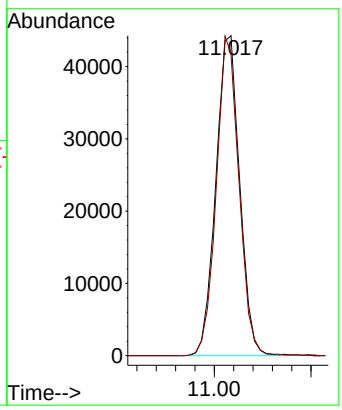




#61
1,2-Dibromoethane
Concen: 20.280 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:107 Resp: 7541

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.6	113.4



Instrument :
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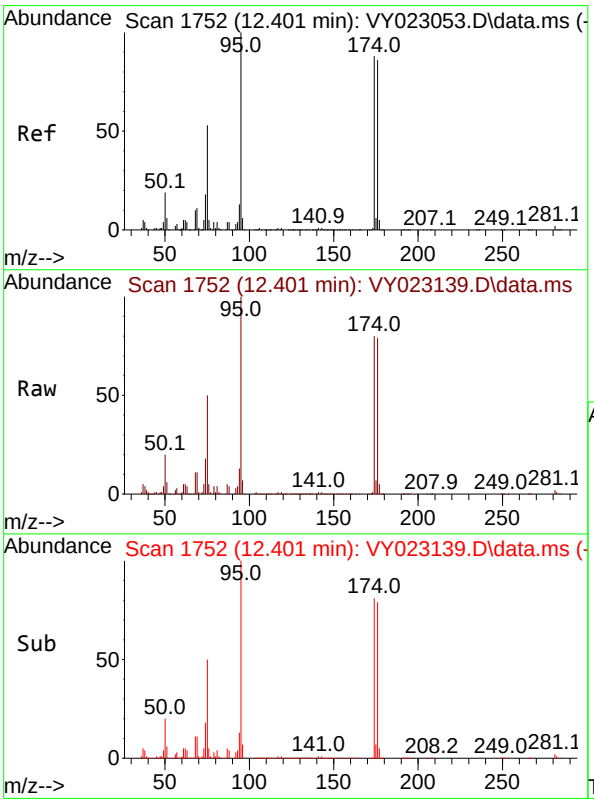
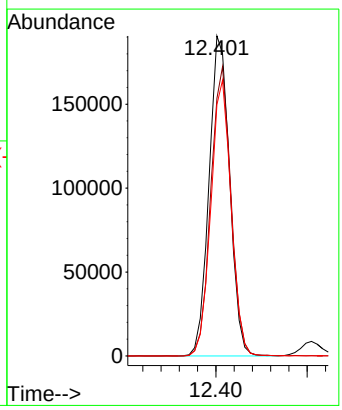
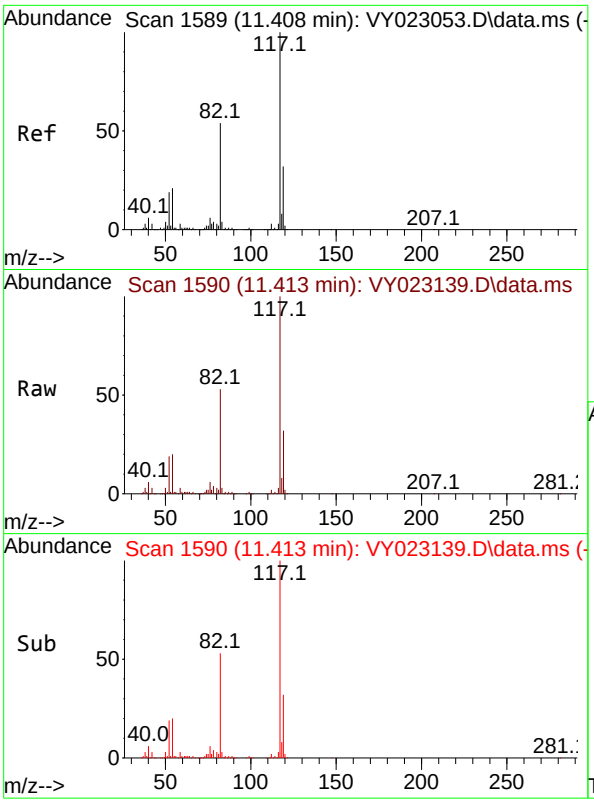


#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 95 Resp: 298119

Ion	Ratio	Lower	Upper
95	100		
174	88.9	0.0	171.6
176	85.0	0.0	167.6

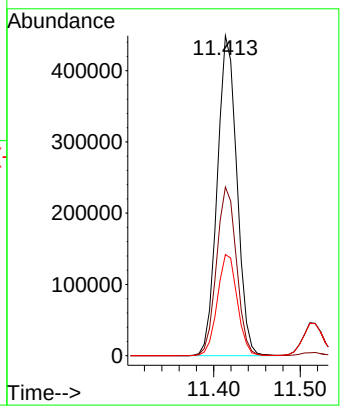




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 70720

Ion	Ratio	Lower	Upper
117	100		
82	52.7	43.4	65.0
119	31.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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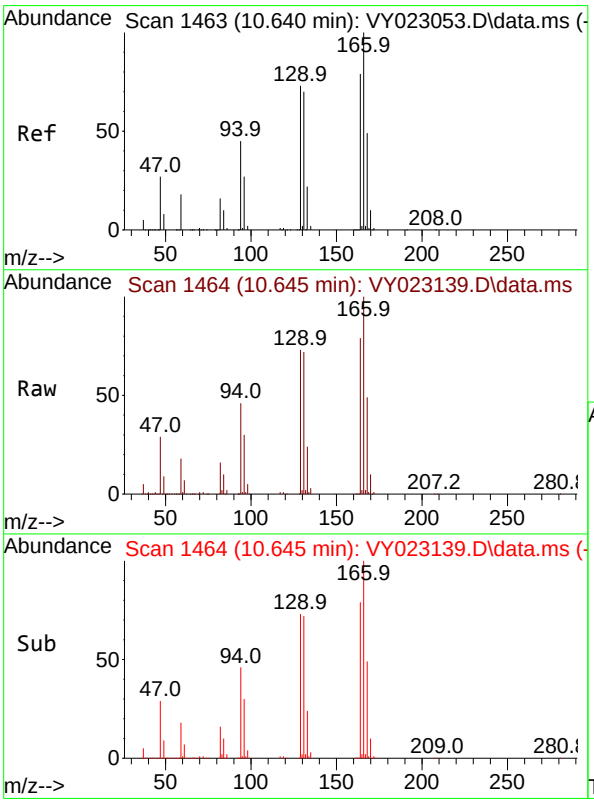
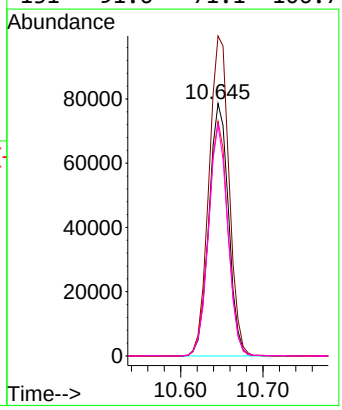
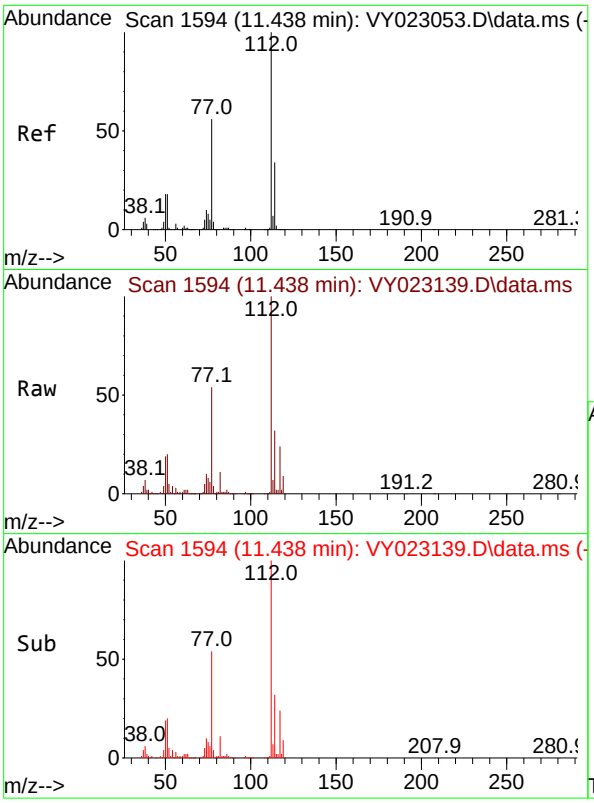


#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:164 Resp: 129655

Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.1	151.7
129	92.9	74.0	111.0
131	91.6	71.1	106.7





#65
Chlorobenzene
Concen: 21.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:112 Resp: 32562

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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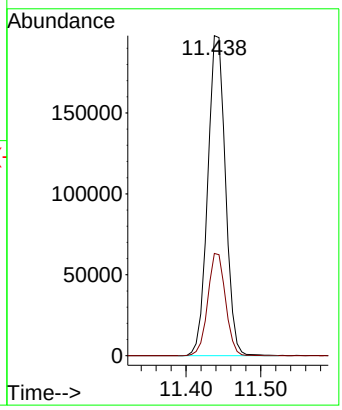
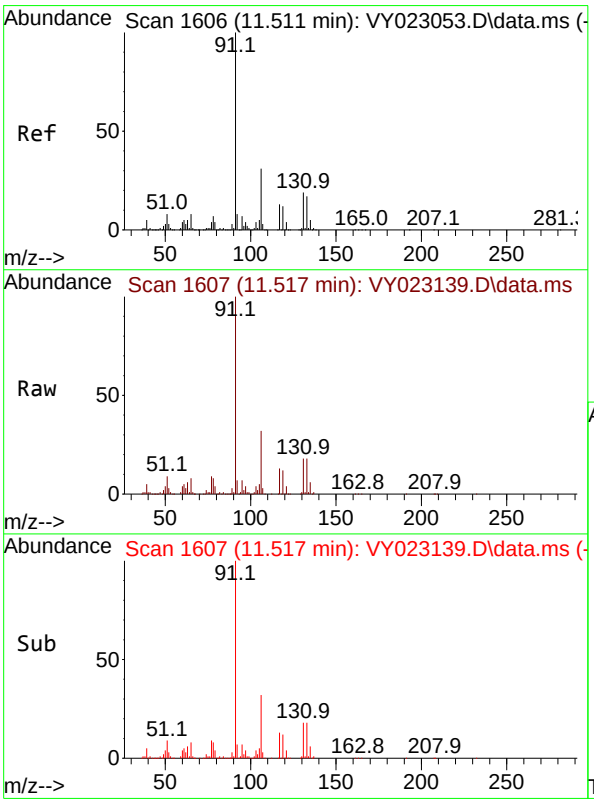
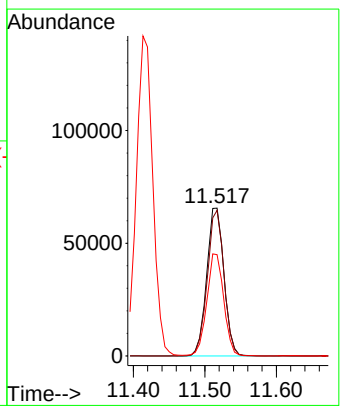


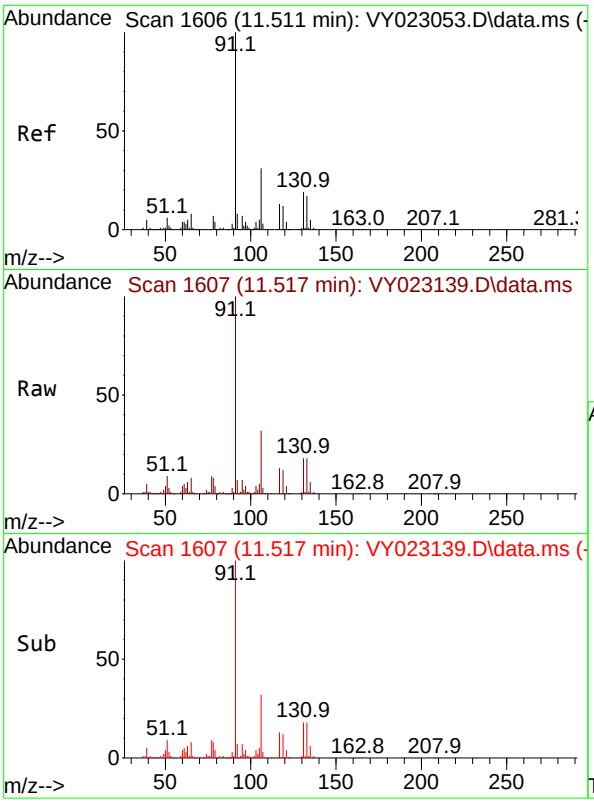


#66
1,1,1,2-Tetrachloroethane
Concen: 21.199 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:131 Resp: 109752

Ion	Ratio	Lower	Upper
131	100		
133	95.3	46.9	140.6
119	67.9	33.2	99.6

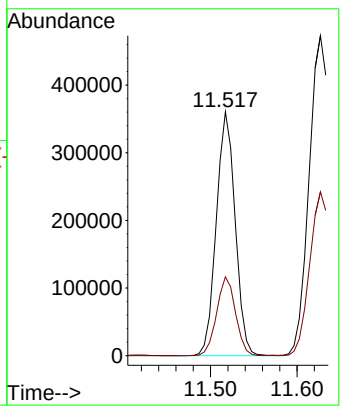




#67
Ethyl Benzene
Concen: 20.767 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 54517

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4



Instrument :
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ClientSampleId :
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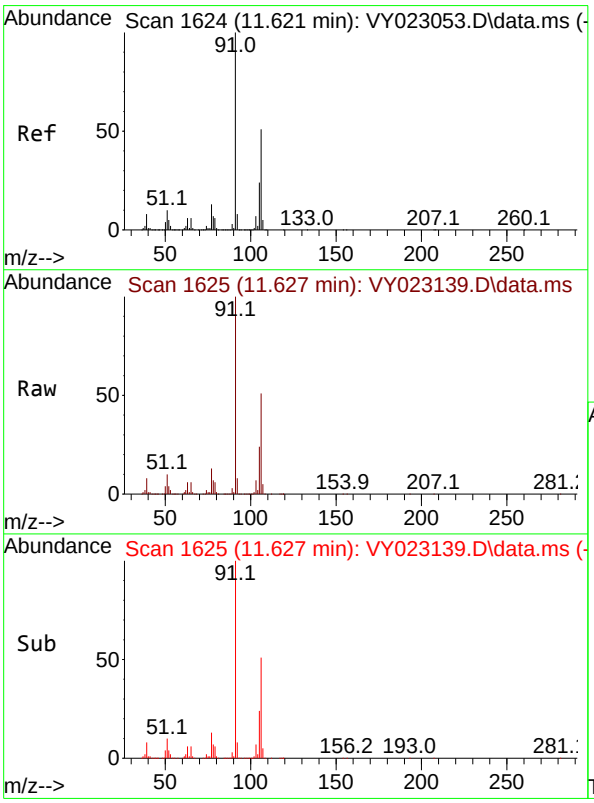
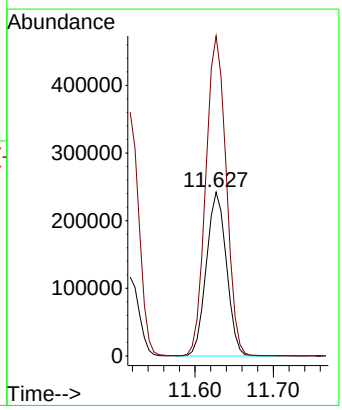
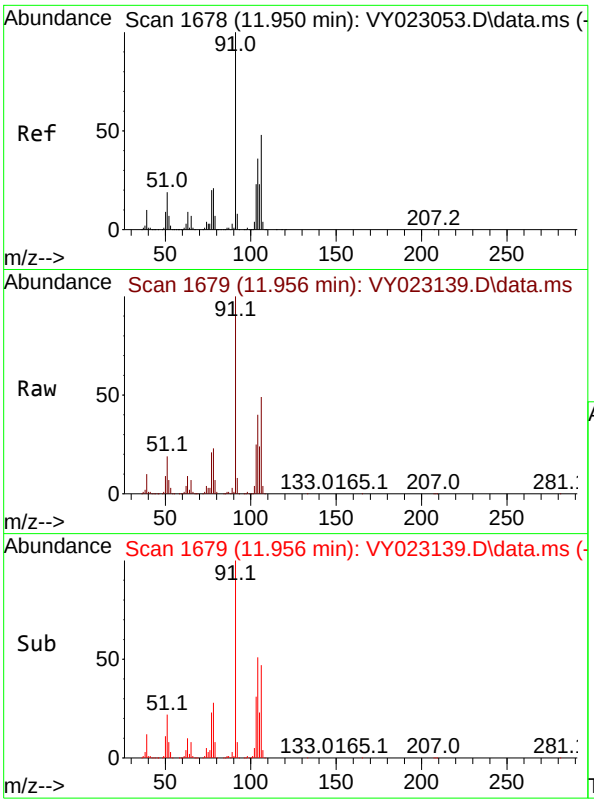


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 430120

Ion	Ratio	Lower	Upper
106	100		
91	198.8	158.6	238.0





#69
o-Xylene
Concen: 21.020 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 20184

Ion	Ratio	Lower	Upper
106	100		
91	206.0	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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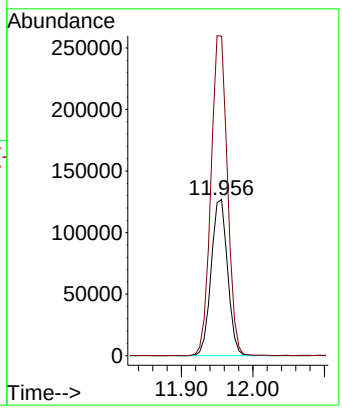
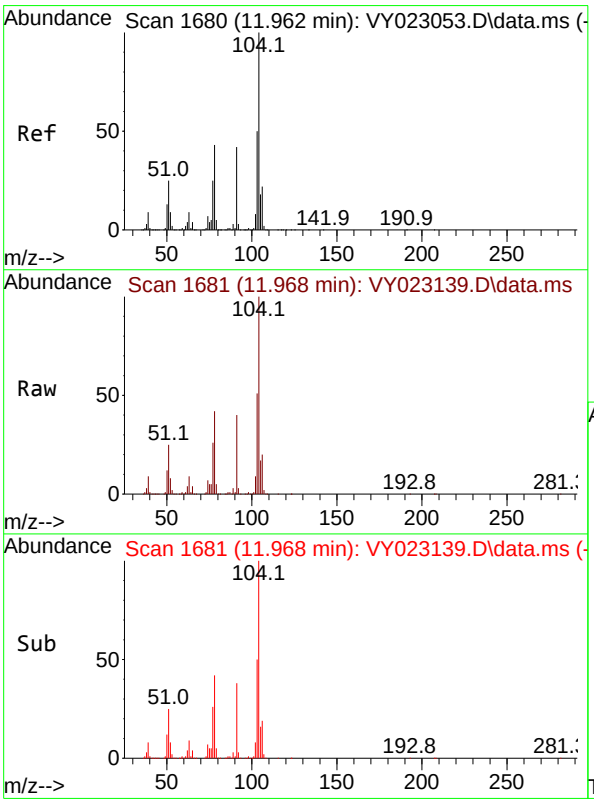
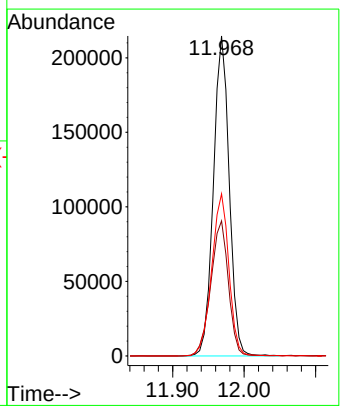


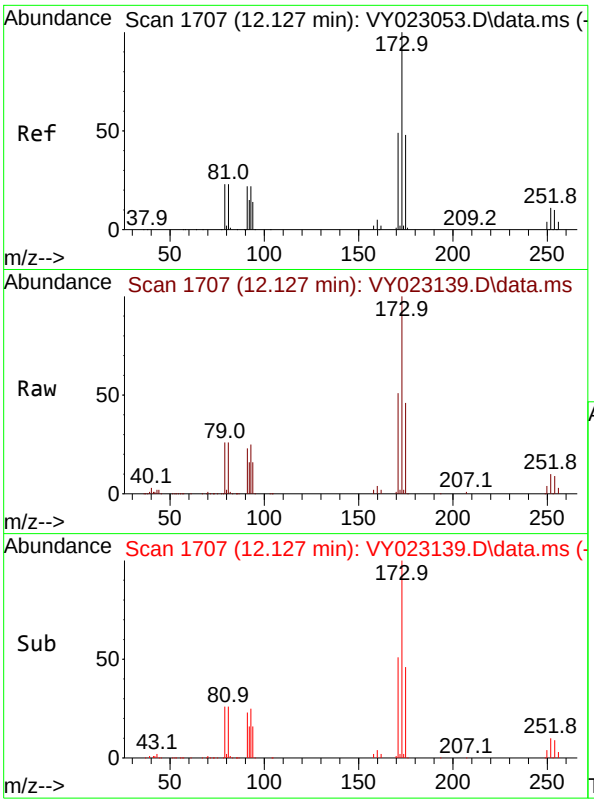


#70
Styrene
Concen: 21.028 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:104 Resp: 330216

Ion	Ratio	Lower	Upper
104	100		
78	46.9	38.5	57.7
103	55.0	43.7	65.5

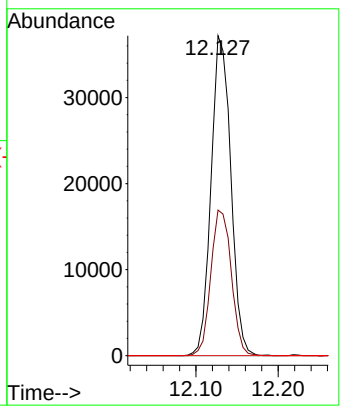




#71
Bromoform
Concen: 20.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:173 Resp: 6210

Ion	Ratio	Lower	Upper
173	100		
175	47.2	23.9	71.7
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
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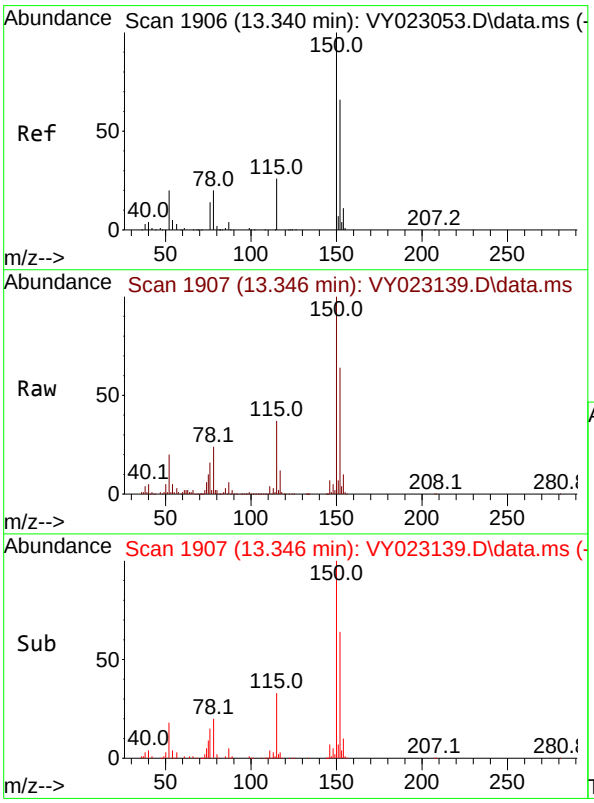
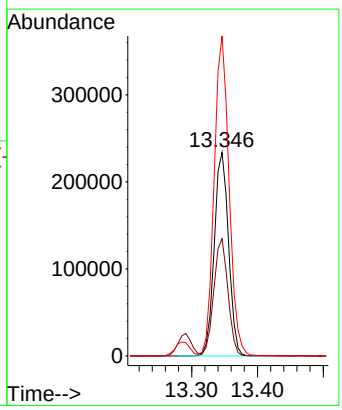
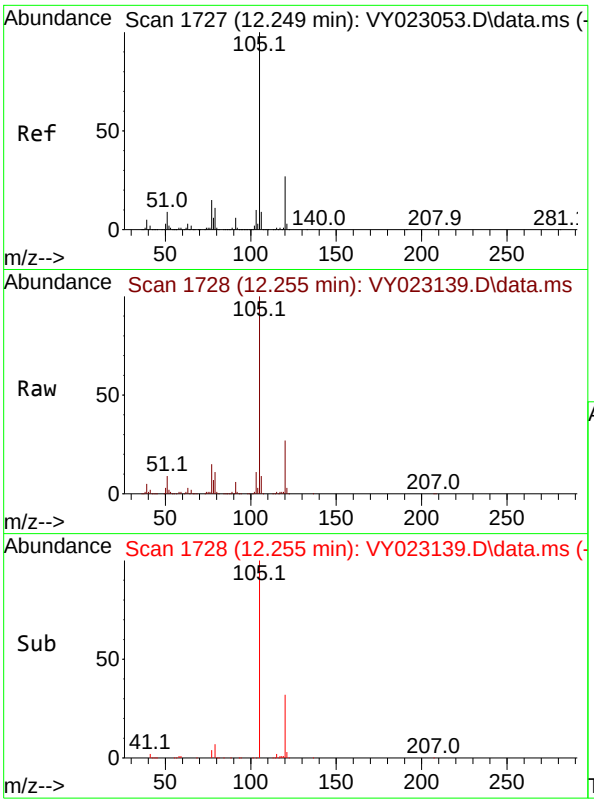


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:152 Resp: 352720

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	164.2	0.0	348.0

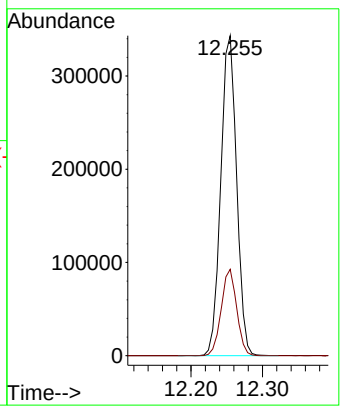




#73
Isopropylbenzene
Concen: 21.185 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 52738

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
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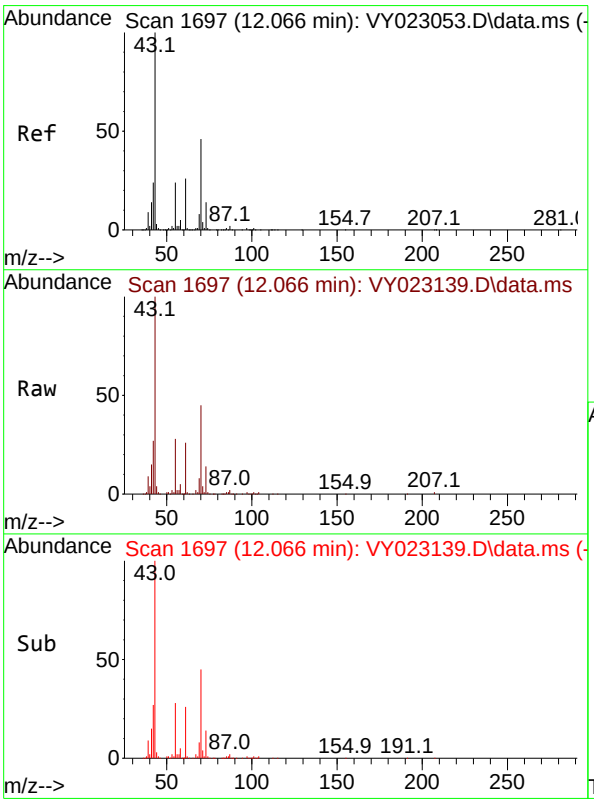
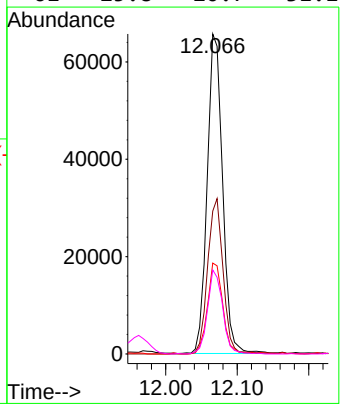
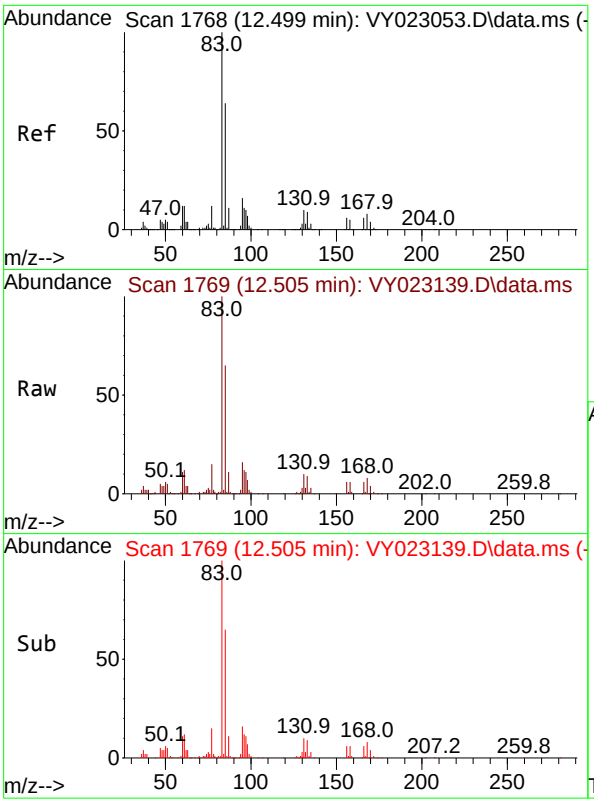


#74
N-amyl acetate
Concen: 18.632 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 98366

Ion	Ratio	Lower	Upper
43	100		
70	48.9	37.5	56.3
55	28.7	20.7	31.1
61	25.8	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 20.694 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 8796

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.1	15.3
85	62.7	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
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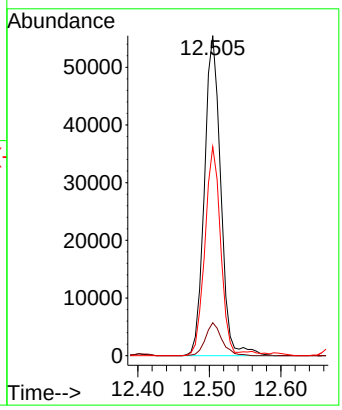
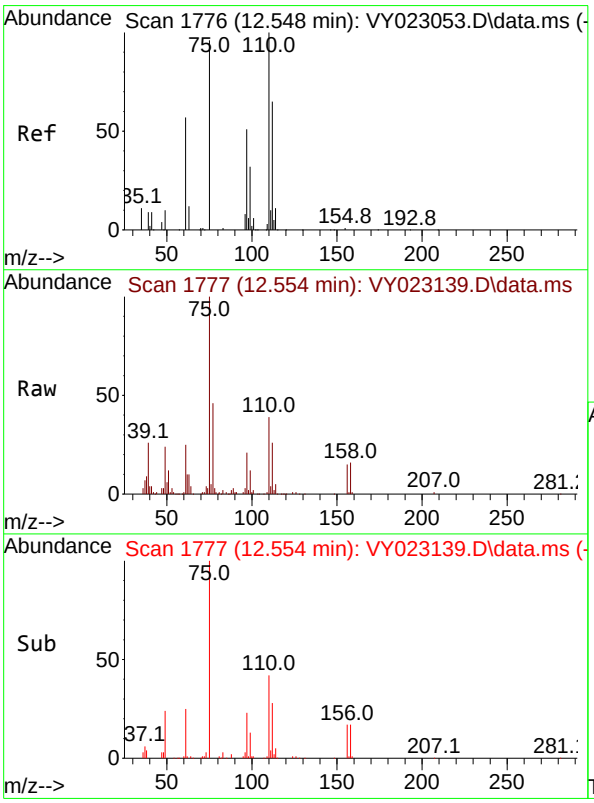
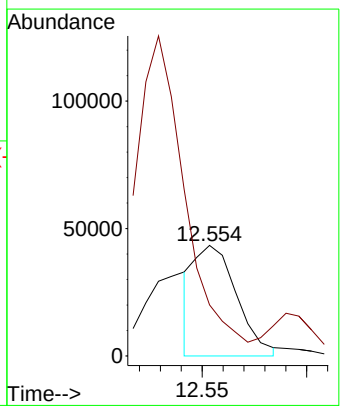


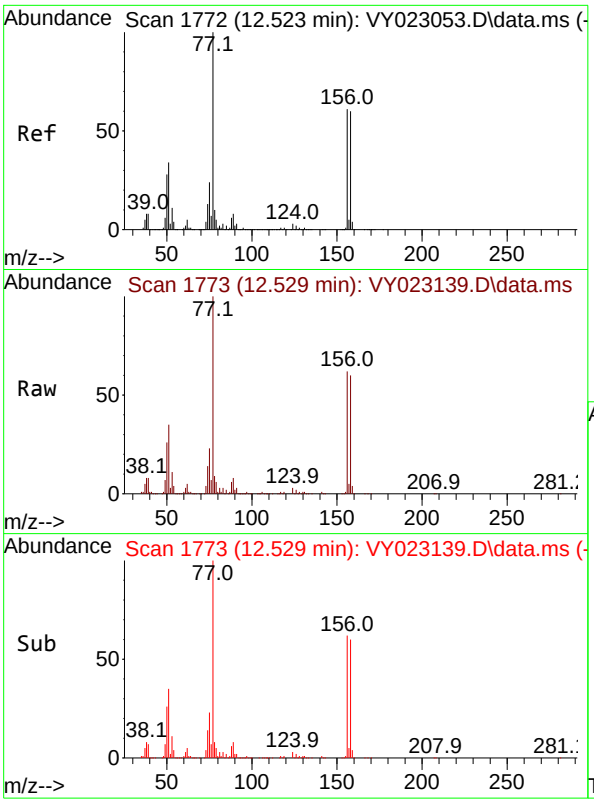


#76
1,2,3-Trichloropropane
Concen: 18.095 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 61598

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

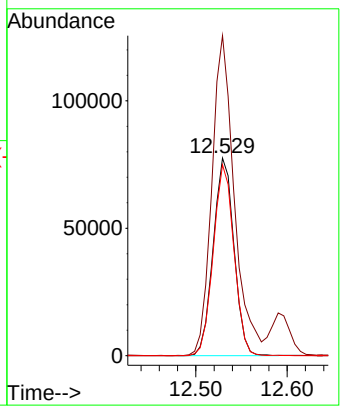




#77
Bromobenzene
Concen: 20.592 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:156 Resp: 12229

Ion	Ratio	Lower	Upper
156	100		
77	174.9	88.1	264.4
158	96.4	48.0	144.0



Instrument :
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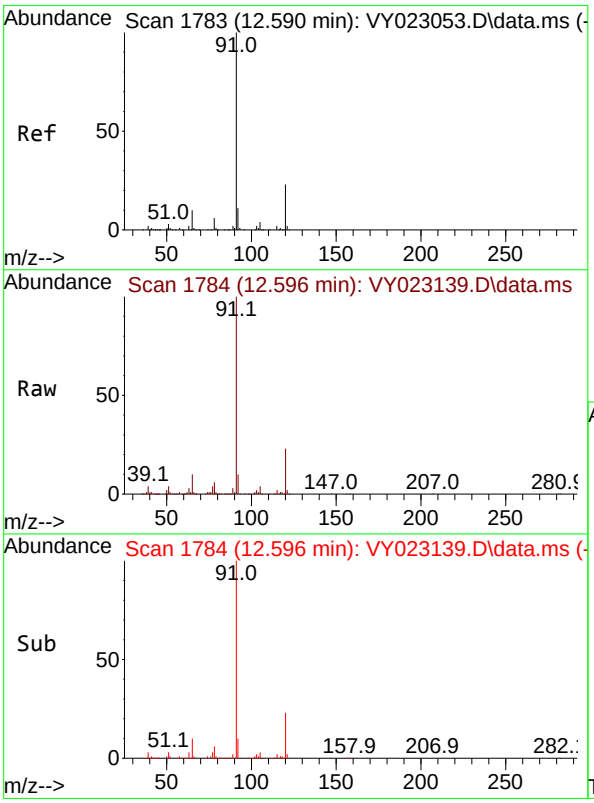
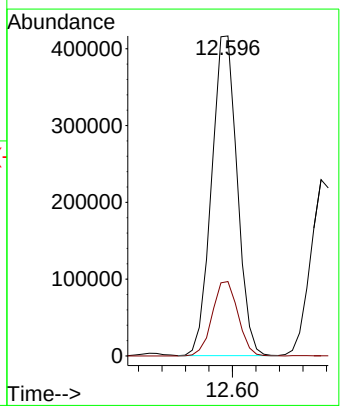
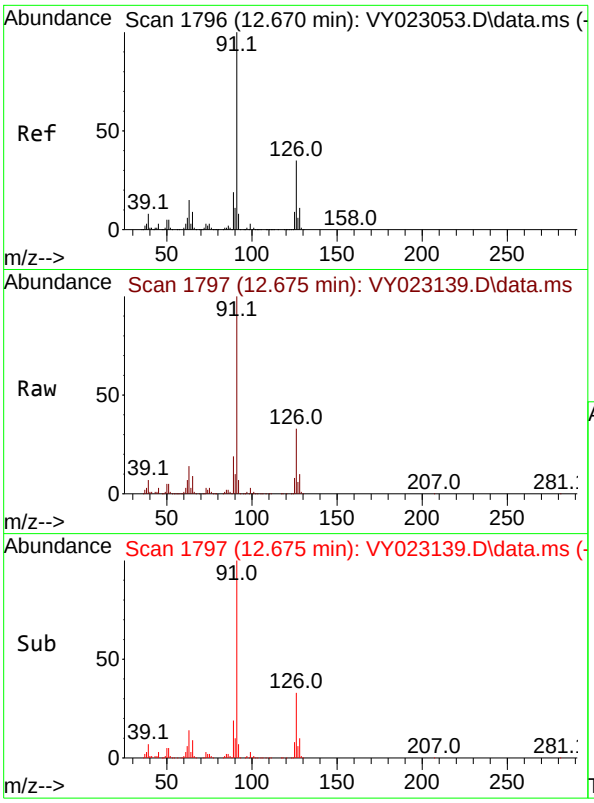


#78
n-propylbenzene
Concen: 21.255 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 629976

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.5	34.5

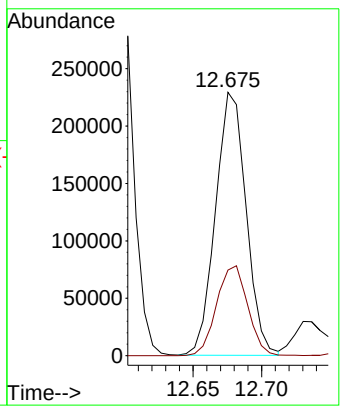




#79
2-Chlorotoluene
Concen: 20.990 ug/l
RT: 12.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 35644

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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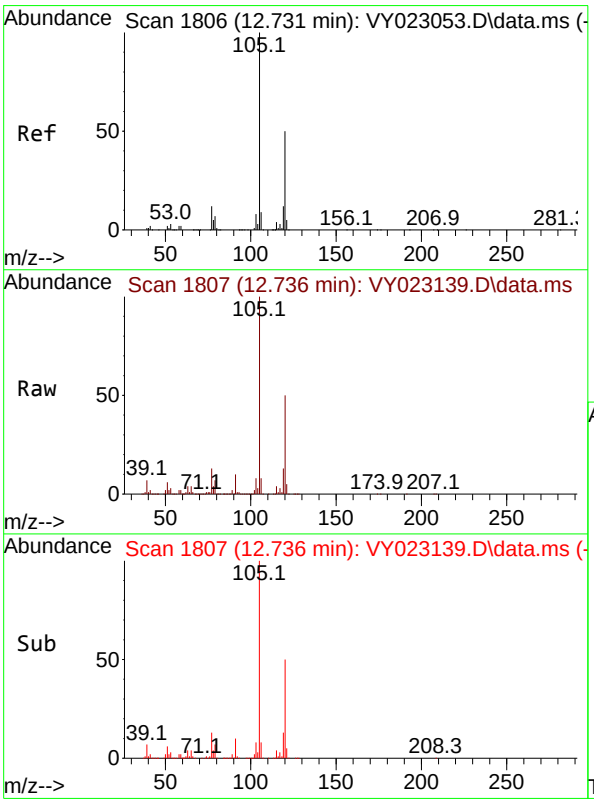
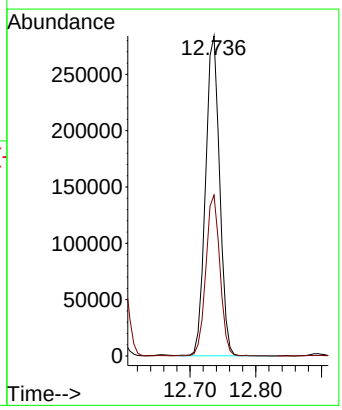
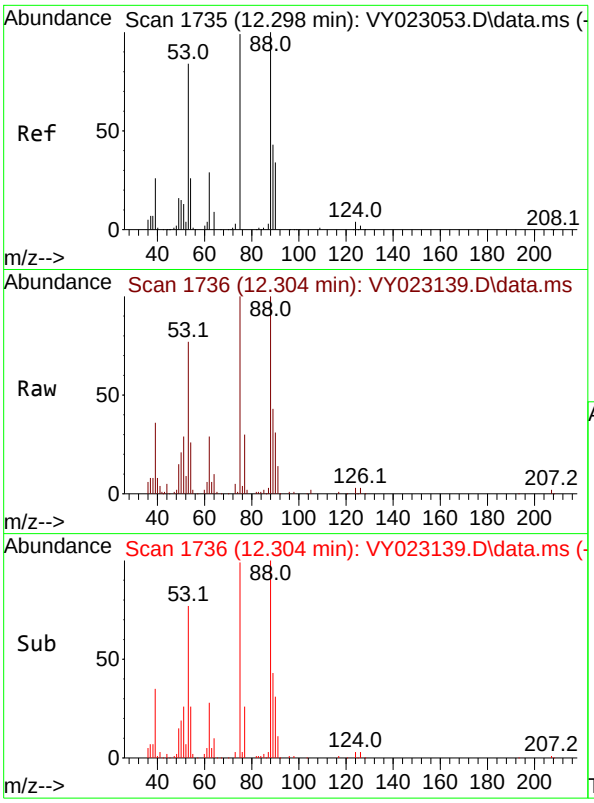


#80
1,3,5-Trimethylbenzene
Concen: 21.022 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 422945

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.838 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 2789

Ion	Ratio	Lower	Upper
75	100		
53	88.5	70.8	106.2
89	44.3	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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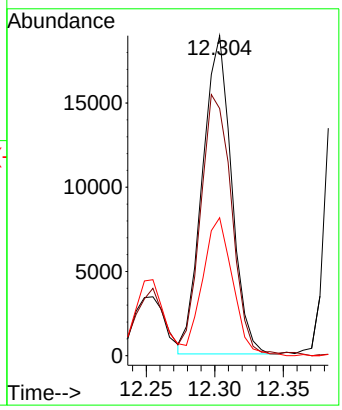
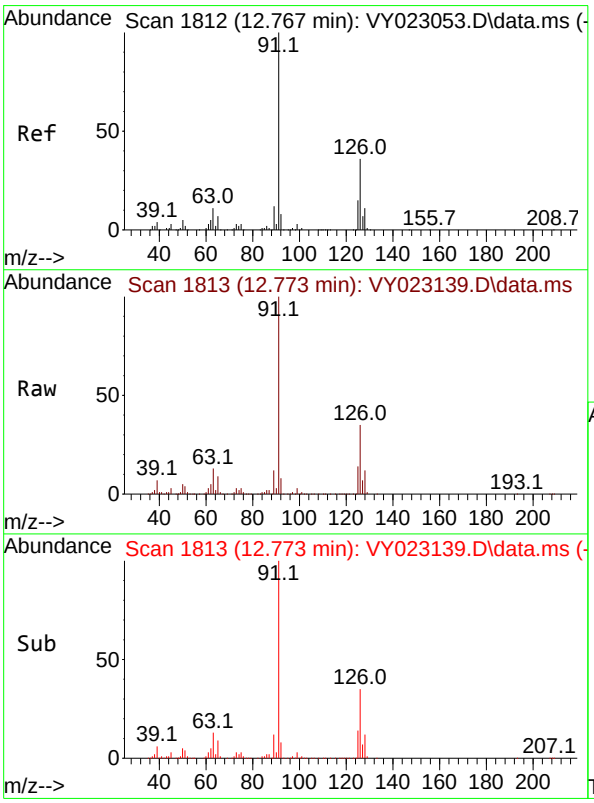
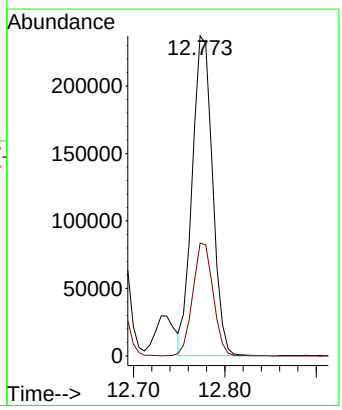


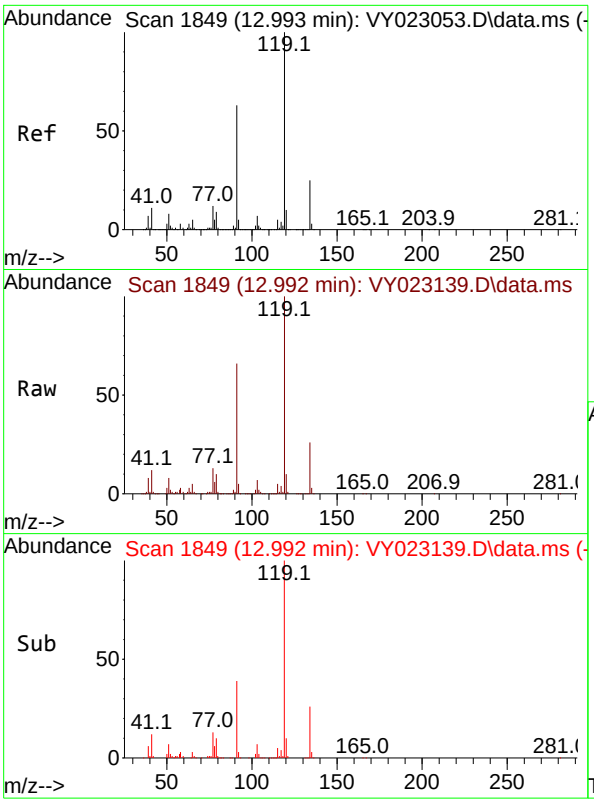


#82
4-Chlorotoluene
Concen: 20.803 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 366476

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.3	52.0





#83
tert-Butylbenzene
Concen: 21.122 ug/l
RT: 12.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 38381

Ion	Ratio	Lower	Upper
119	100		
91	62.5	31.6	94.8
134	26.1	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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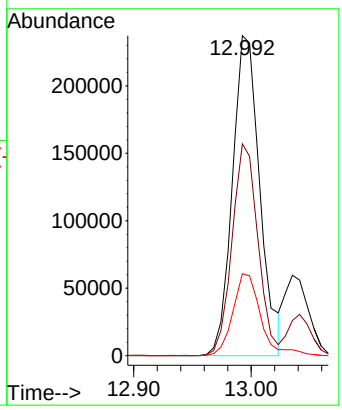
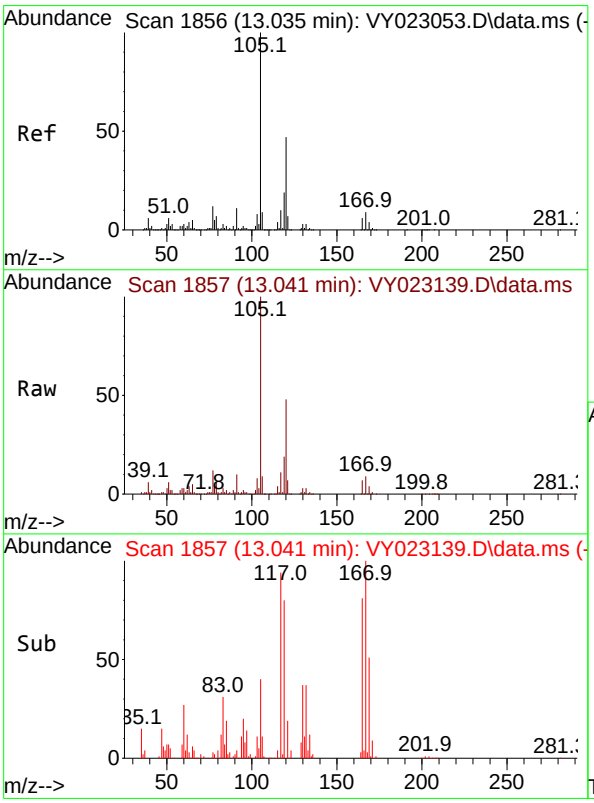
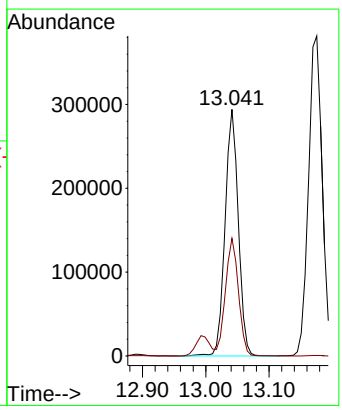


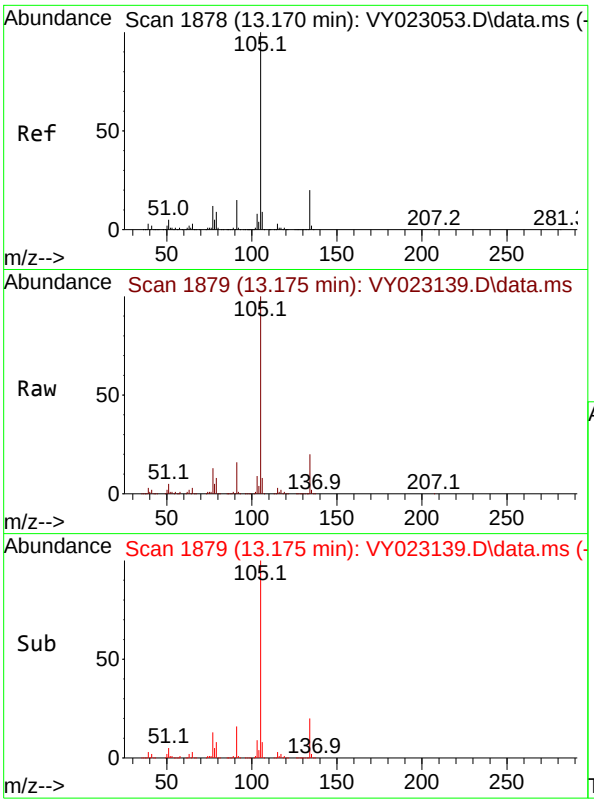


#84
1,2,4-Trimethylbenzene
Concen: 21.298 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 426567

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0





#85
sec-Butylbenzene
Concen: 21.463 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 57291

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
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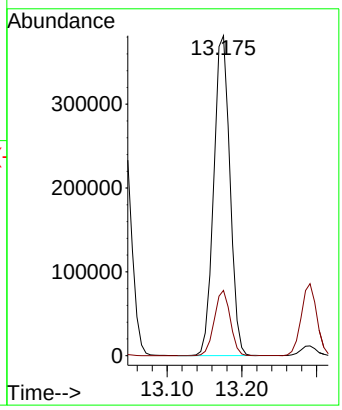
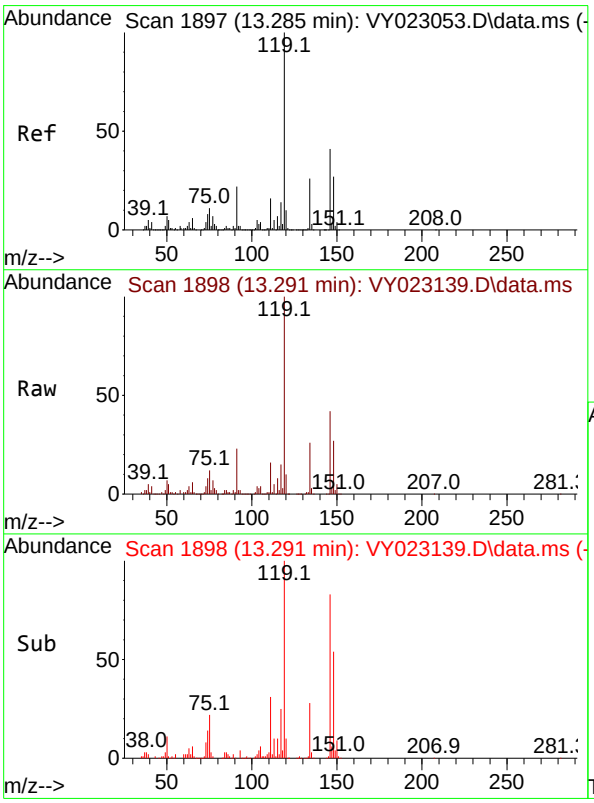
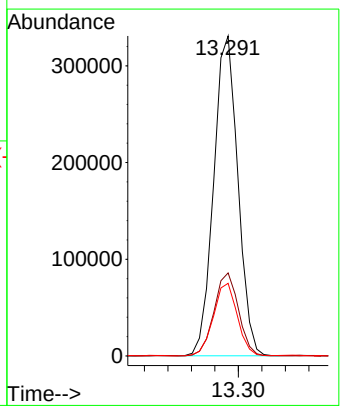


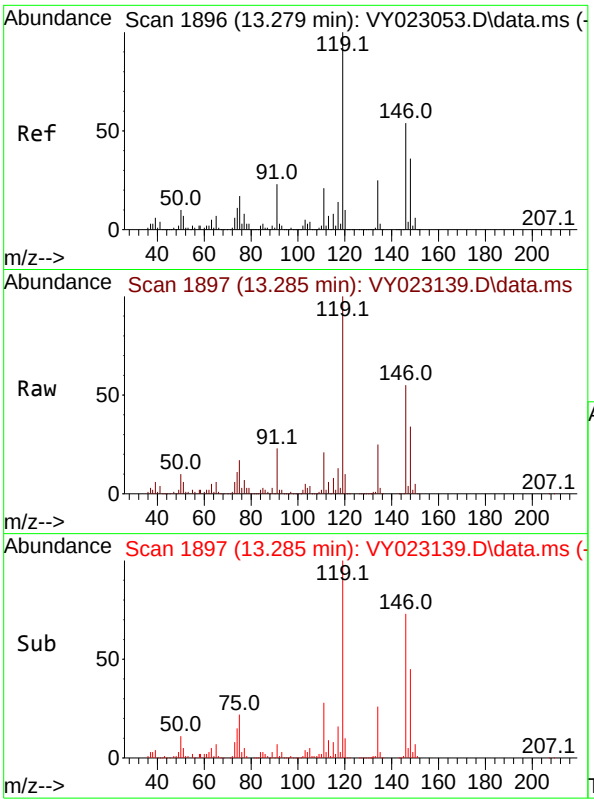


#86
p-Isopropyltoluene
Concen: 21.375 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 473600

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	22.3	11.3	33.8

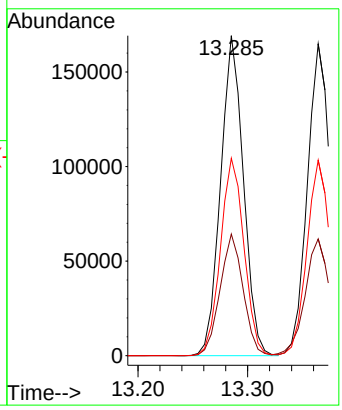




#87
1,3-Dichlorobenzene
Concen: 20.938 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:146 Resp: 24522

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.6	58.7
148	63.6	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
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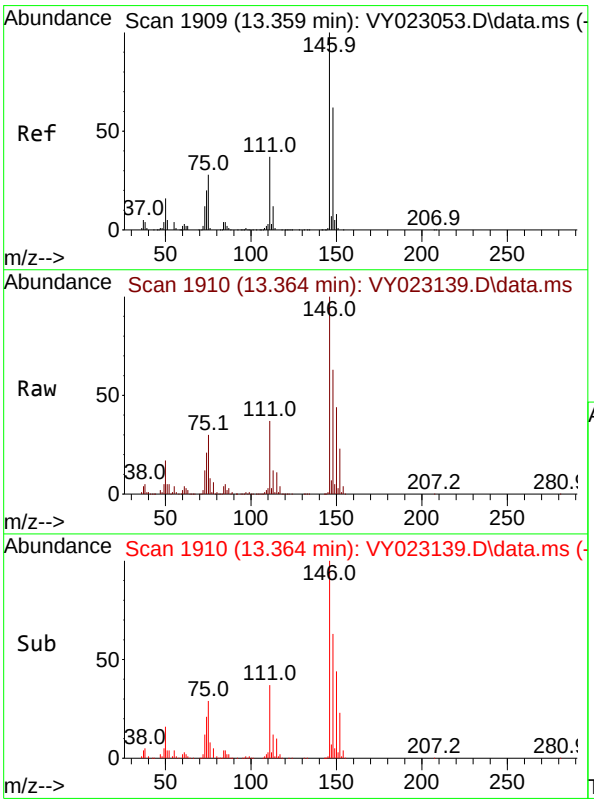
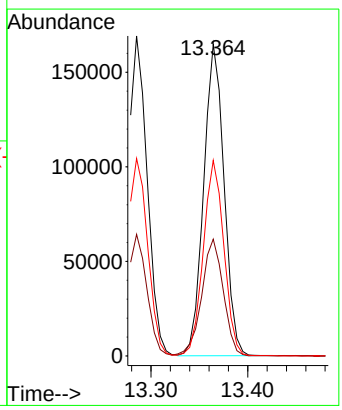
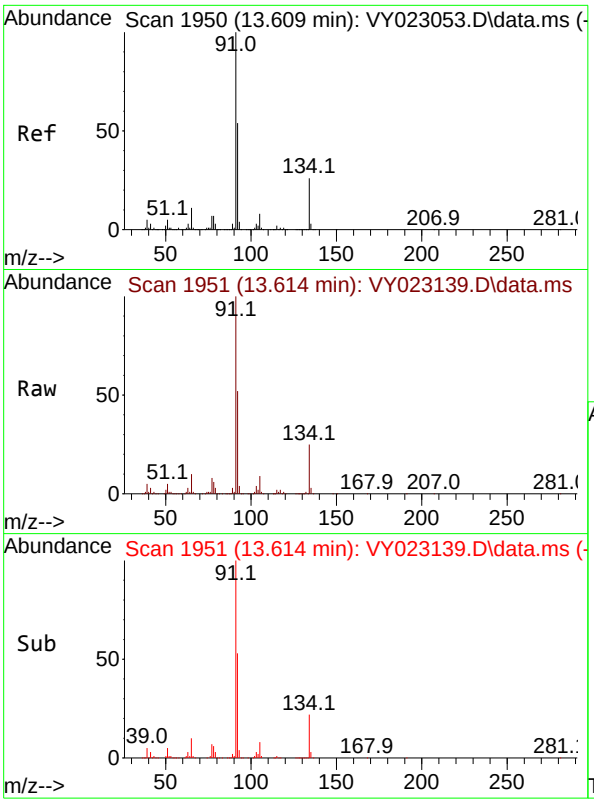


#88
1,4-Dichlorobenzene
Concen: 20.829 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:146 Resp: 241992

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.1	57.1
148	63.2	31.6	94.7

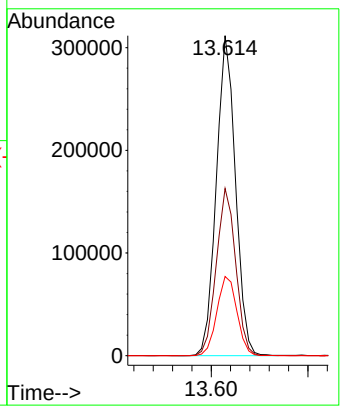




#89
n-Butylbenzene
Concen: 20.989 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 42712

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	26.0	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
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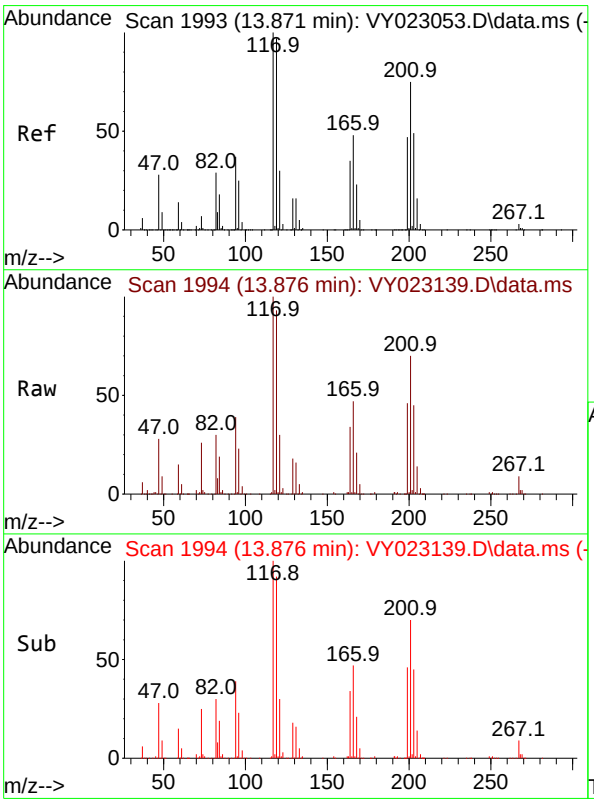
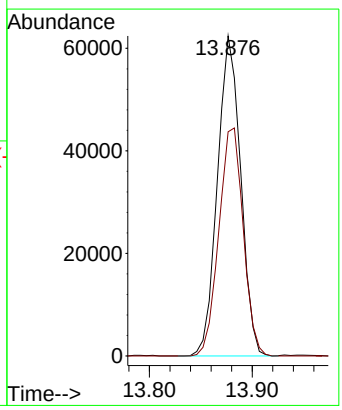
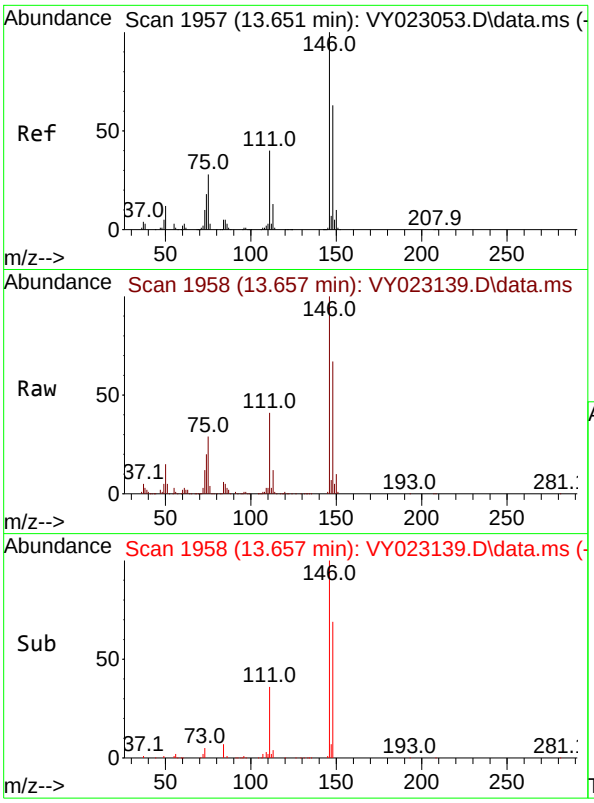


#90
Hexachloroethane
Concen: 21.595 ug/l
RT: 13.876 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 97949

Ion	Ratio	Lower	Upper
117	100		
201	74.7	38.4	115.1

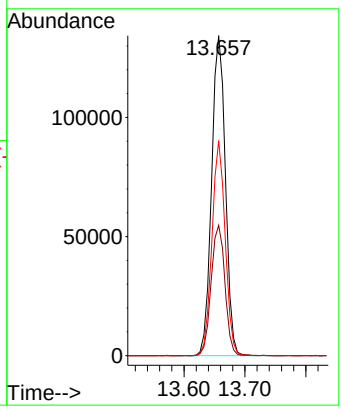




#91
1,2-Dichlorobenzene
Concen: 20.524 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:146 Resp: 21081

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	64.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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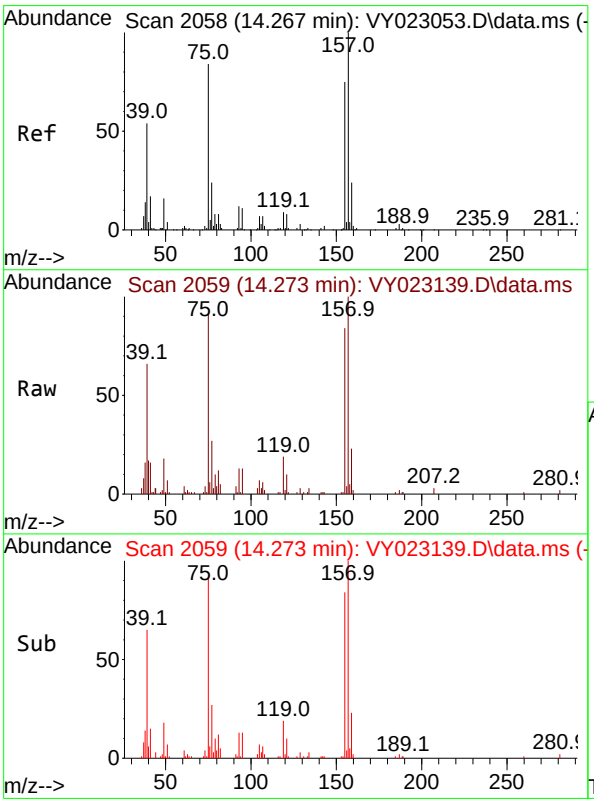
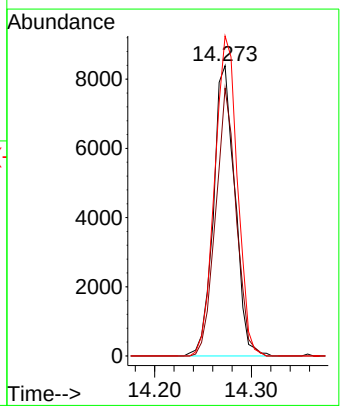
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

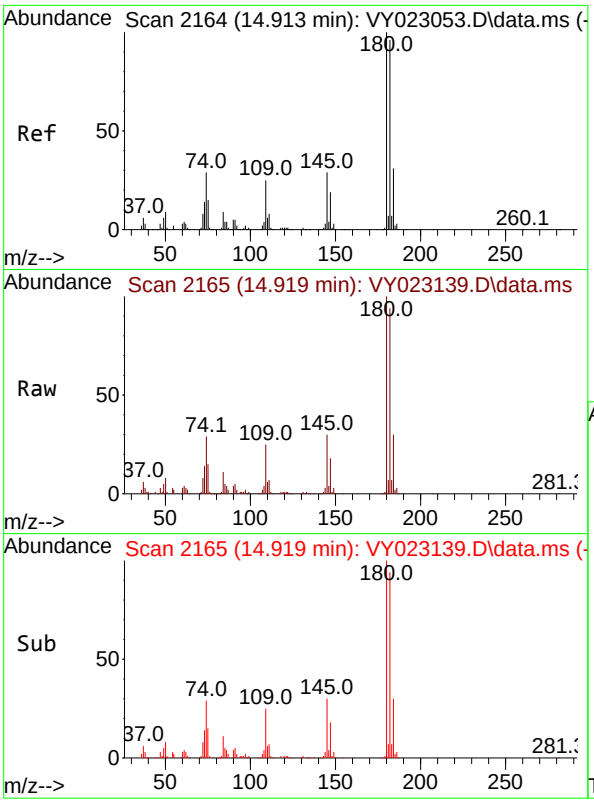


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.499 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 12905

Ion	Ratio	Lower	Upper
75	100		
155	88.5	43.9	131.6
157	116.6	57.2	171.6

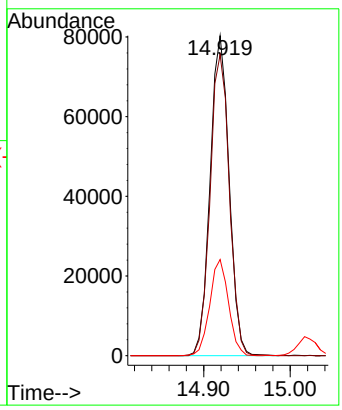




#93
1,2,4-Trichlorobenzene
Concen: 20.157 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 12243

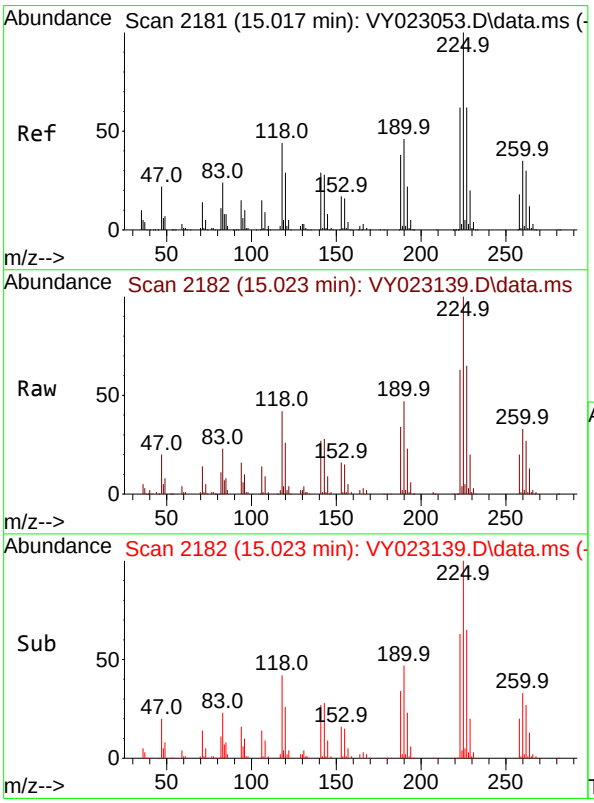
Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
APPROVED

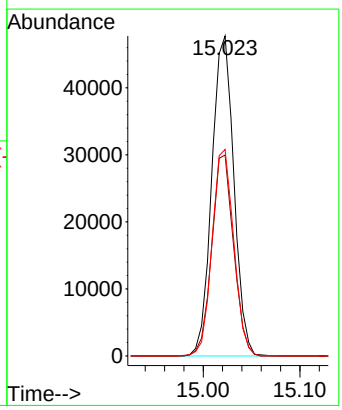
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

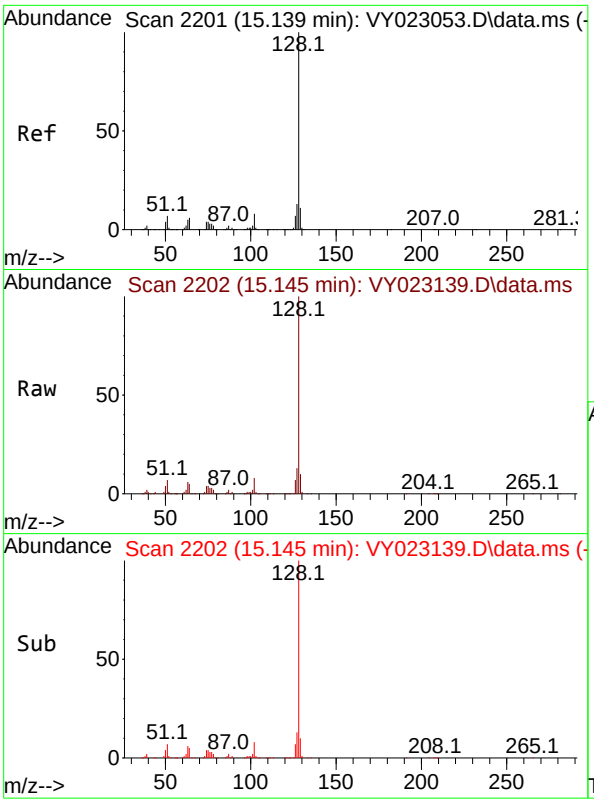


#94
Hexachlorobutadiene
Concen: 21.149 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:225 Resp: 75487

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.3	93.8
227	63.6	31.5	94.5

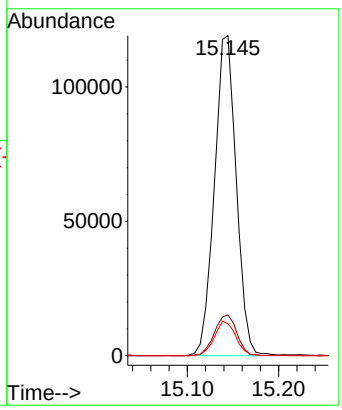




#95
Naphthalene
Concen: 19.124 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:128 Resp: 19808

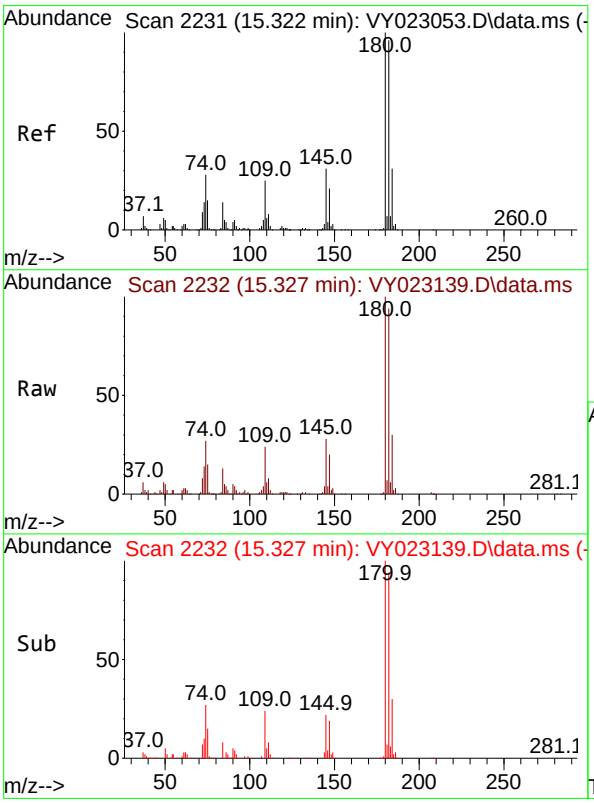
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.6	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
APPROVED

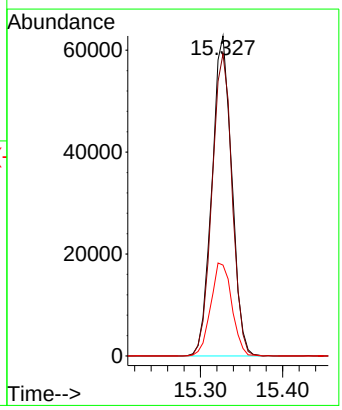
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.115 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 105286

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.7
145	30.9	15.9	47.7



Raw Data: **VW032083.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBSD01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032083.D	1	08/14/25 10:58	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	21.3		1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	17.8		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	22.1		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	20.3		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.3		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.9		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	120		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.3		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.8		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	15.8		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	17.3		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.4		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.3		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	17.4		0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	92.0		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.4		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.9		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	18.3		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	19.2		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.4		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.0		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.5		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.9		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.3		0.78	2.50	5.00	ug/Kg

Raw Data: **VW032083.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBSD01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032083.D	1	08/14/25 10:58	VW081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.1		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.4		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.0		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	97.4		3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.1		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.6		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	21.2		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	21.5		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.2		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.0		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.1		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.3		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.6		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.8		71 - 136		94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		78 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.1		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		79 - 119		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	218000	7.959				
540-36-3	1,4-Difluorobenzene	380000	8.849				
3114-55-4	Chlorobenzene-d5	343000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	178000	13.55				

Raw Data: **VW032083.D**

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0814SBSD01	SDG No.:	Q2820
Lab Sample ID:	VW0814SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032083.D	1	08/14/25 10:58	VW081425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	218109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	379951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	343089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	177605	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	147653	46.808	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 93.620%			
35) Dibromofluoromethane	7.898	113	124076	50.548	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 101.100%			
50) Toluene-d8	10.325	98	454977	50.113	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.220%			
62) 4-Bromofluorobenzene	12.617	95	166018	49.621	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	33288	21.339	ug/l	95
3) Chloromethane	2.253	50	37450	17.822	ug/l	98
4) Vinyl Chloride	2.399	62	50061	19.695	ug/l	96
5) Bromomethane	2.814	94	42218	22.140	ug/l	94
6) Chloroethane	2.966	64	34212	20.341	ug/l	100
7) Trichlorofluoromethane	3.301	101	39414	19.357	ug/l	97
8) Diethyl Ether	3.716	74	31376	18.808	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.094	101	53669	22.341	ug/l	98
10) Methyl Iodide	4.307	142	67253	19.745	ug/l	98
11) Tert butyl alcohol	5.216	59	16282	79.711	ug/l	95
12) 1,1-Dichloroethene	4.076	96	55246	20.886	ug/l	94
13) Acrolein	3.929	56	22386	68.782	ug/l	99
14) Allyl chloride	4.698	41	64273	16.695	ug/l	88
15) Acrylonitrile	5.399	53	65441	82.359	ug/l	98
16) Acetone	4.155	43	86139	117.944	ug/l	98
17) Carbon Disulfide	4.423	76	123061	17.333	ug/l	98
18) Methyl Acetate	4.704	43	36534	15.808	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	82841	17.775	ug/l	96
20) Methylene Chloride	4.948	84	58381	17.289	ug/l	97
21) trans-1,2-Dichloroethene	5.454	96	51769	18.442	ug/l	95
22) Diisopropyl ether	6.338	45	141639	17.452	ug/l	92
23) Vinyl Acetate	6.277	43	481360	90.338	ug/l	99
24) 1,1-Dichloroethane	6.240	63	94906	18.303	ug/l	98
25) 2-Butanone	7.191	43	95473	91.978	ug/l	95
26) 2,2-Dichloropropane	7.185	77	49013	18.841	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	61895	18.864	ug/l	94
28) Bromochloromethane	7.526	49	43111	18.270	ug/l	97
29) Tetrahydrofuran	7.551	42	56439	82.447	ug/l	99
30) Chloroform	7.691	83	105761	19.239	ug/l	97
31) Cyclohexane	7.965	56	78359	17.431	ug/l	92
32) 1,1,1-Trichloroethane	7.886	97	77562	19.425	ug/l	98
36) 1,1-Dichloropropene	8.093	75	69861	20.189	ug/l	99
37) Ethyl Acetate	7.276	43	39212	19.240	ug/l	97
38) Carbon Tetrachloride	8.075	117	71526	21.419	ug/l	97
39) Methylcyclohexane	9.343	83	81832	19.402	ug/l	98
40) Benzene	8.337	78	214937	19.983	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	21151	18.301	ug/l	#	93
42) 1,2-Dichloroethane	8.410	62	70737	20.552	ug/l		100
43) Isopropyl Acetate	8.435	43	69002	18.403	ug/l		99
44) Trichloroethene	9.099	130	53394	20.845	ug/l		99
45) 1,2-Dichloropropane	9.374	63	50638	19.487	ug/l		100
46) Dibromomethane	9.465	93	34565	20.610	ug/l		99
47) Bromodichloromethane	9.648	83	79691	20.621	ug/l		100
48) Methyl methacrylate	9.441	41	32521	17.966	ug/l	#	92
49) 1,4-Dioxane	9.459	88	8402	387.463	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.215	43	205106	96.913	ug/l		95
52) Toluene	10.386	92	137378	20.277	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	69323	19.147	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	79480	19.350	ug/l		92
55) 1,1,2-Trichloroethane	10.788	97	44575	20.001	ug/l		93
56) Ethyl methacrylate	10.648	69	53600	17.973	ug/l	#	92
57) 1,3-Dichloropropane	10.934	76	73958	19.038	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	147647	89.504	ug/l		99
59) 2-Hexanone	10.971	43	142726	97.375	ug/l		96
60) Dibromochloromethane	11.129	129	53091	20.855	ug/l		99
61) 1,2-Dibromoethane	11.233	107	43311	19.998	ug/l		98
64) Tetrachloroethene	10.861	164	43709	22.056	ug/l		97
65) Chlorobenzene	11.654	112	155926	20.880	ug/l		92
66) 1,1,1,2-Tetrachloroethane	11.727	131	49815	21.380	ug/l		97
67) Ethyl Benzene	11.727	91	256167	20.251	ug/l		93
68) m/p-Xylenes	11.837	106	207846	42.582	ug/l		97
69) o-Xylene	12.160	106	95460	21.160	ug/l		93
70) Styrene	12.178	104	163976	20.463	ug/l		99
71) Bromoform	12.349	173	28712	21.543	ug/l	#	100
73) Isopropylbenzene	12.458	105	238599	19.223	ug/l		99
74) N-amyl acetate	12.269	43	63466	17.822	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.714	83	55872	18.959	ug/l		98
76) 1,2,3-Trichloropropane	12.763	75	46559m	19.315	ug/l		
77) Bromobenzene	12.745	156	60209	20.310	ug/l		89
78) n-propylbenzene	12.800	91	302042	19.766	ug/l		99
79) 2-Chlorotoluene	12.885	91	177356	18.805	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	205070	19.461	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	14854	15.953	ug/l		88
82) 4-Chlorotoluene	12.983	91	187599	18.722	ug/l		96
83) tert-Butylbenzene	13.202	119	170175	19.459	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	212657	19.825	ug/l		99
85) sec-Butylbenzene	13.379	105	258452	19.547	ug/l		98
86) p-Isopropyltoluene	13.495	119	220215	19.978	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	125068	21.202	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	119783	20.094	ug/l		99
89) n-Butylbenzene	13.818	91	207148	19.344	ug/l		99
90) Hexachloroethane	14.086	117	39591	19.640	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	108294	20.266	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	9069	17.310	ug/l		94
93) 1,2,4-Trichlorobenzene	15.129	180	66171	20.701	ug/l		94
94) Hexachlorobutadiene	15.226	225	30219	21.148	ug/l		96
95) Naphthalene	15.360	128	146617	18.719	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	59840	20.574	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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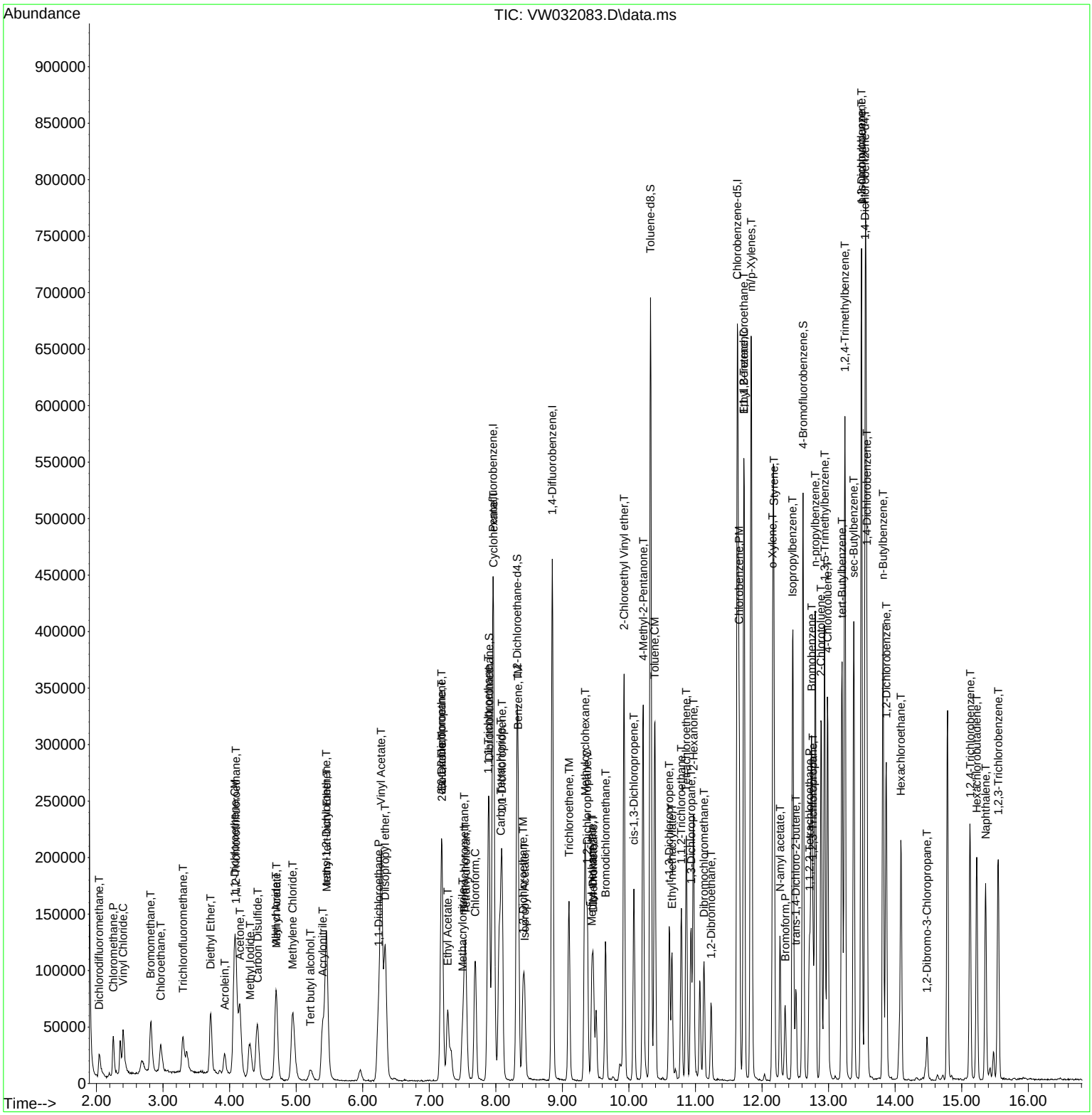

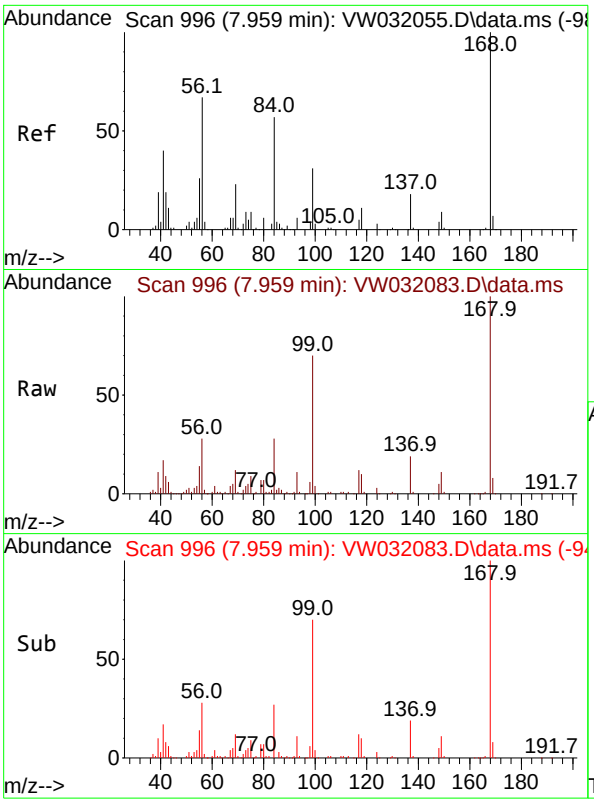

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:168 Resp: 21810

Ion	Ratio	Lower	Upper
168	100		
99	69.4	56.0	84.0

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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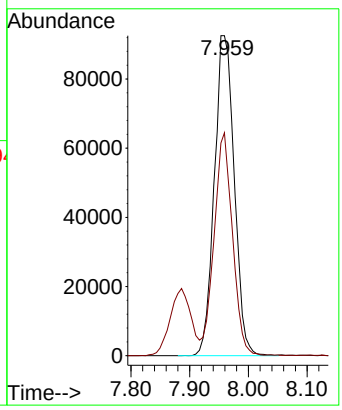
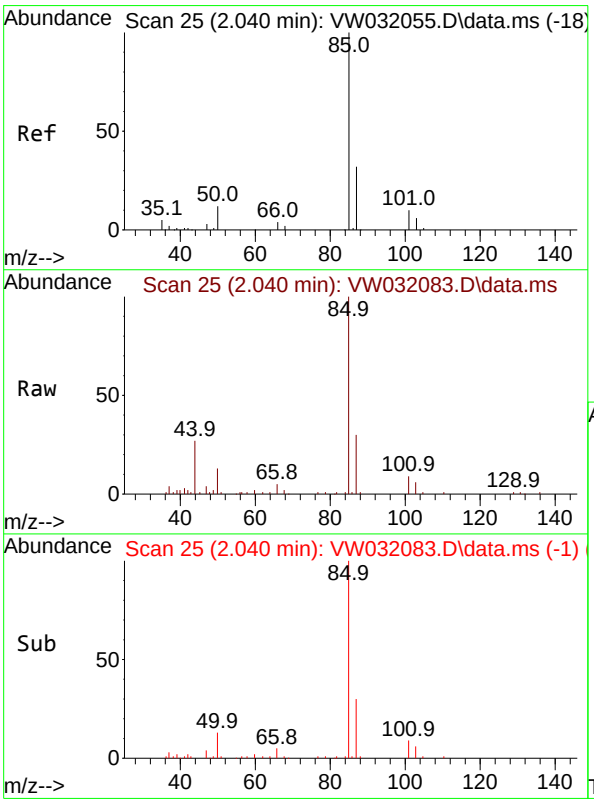
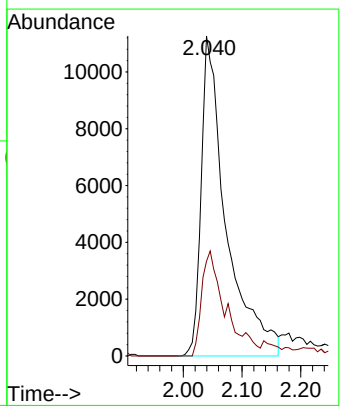


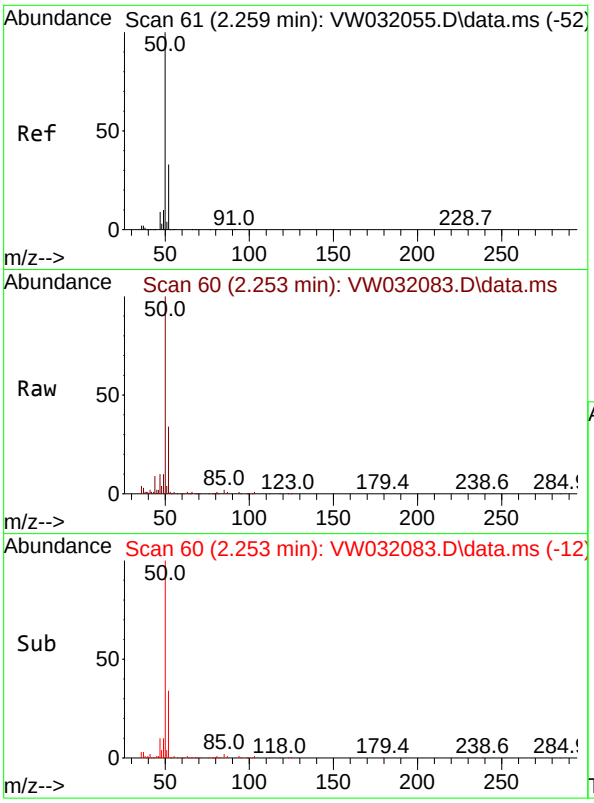


#2
Dichlorodifluoromethane
Concen: 21.339 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 85 Resp: 33288

Ion	Ratio	Lower	Upper
85	100		
87	29.6	16.2	48.6

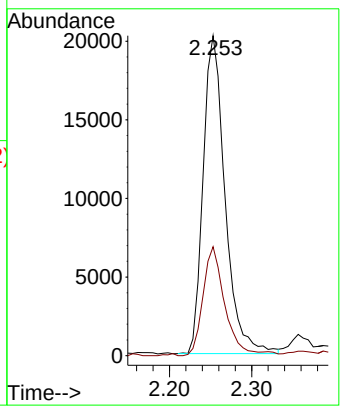




#3
Chloromethane
Concen: 17.822 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 50 Resp: 3745

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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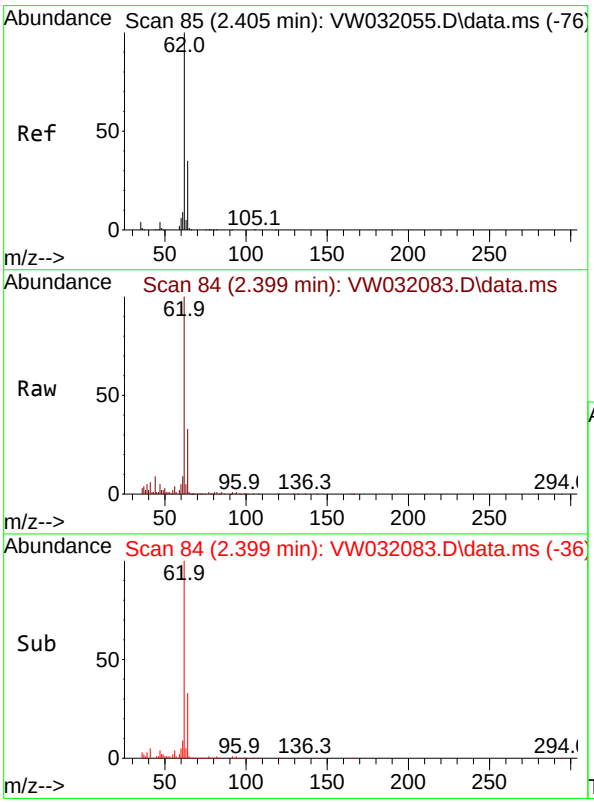
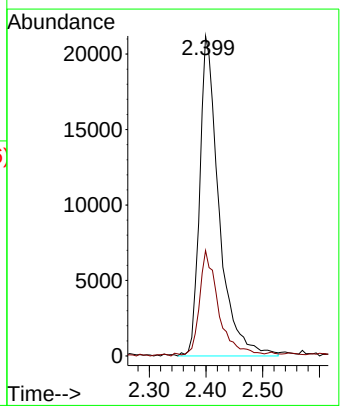
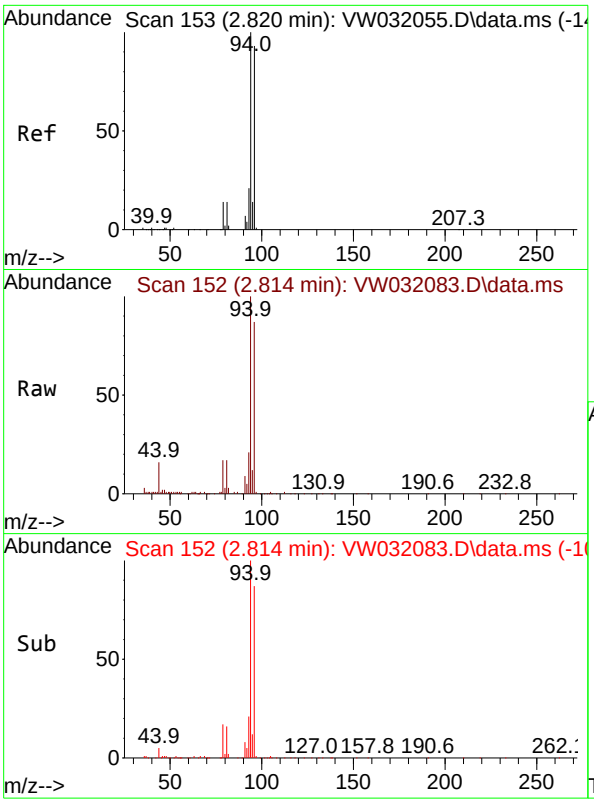


#4
Vinyl Chloride
Concen: 19.695 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 62 Resp: 50061

Ion	Ratio	Lower	Upper
62	100		
64	32.3	27.8	41.6

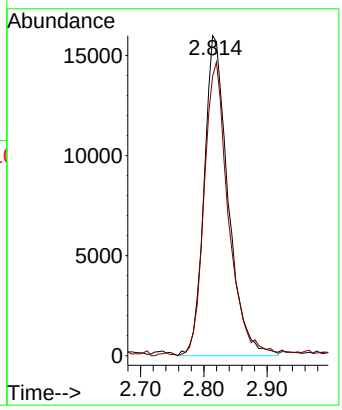




#5
Bromomethane
Concen: 22.140 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 94 Resp: 4221

Ion	Ratio	Lower	Upper
94	100		
96	87.3	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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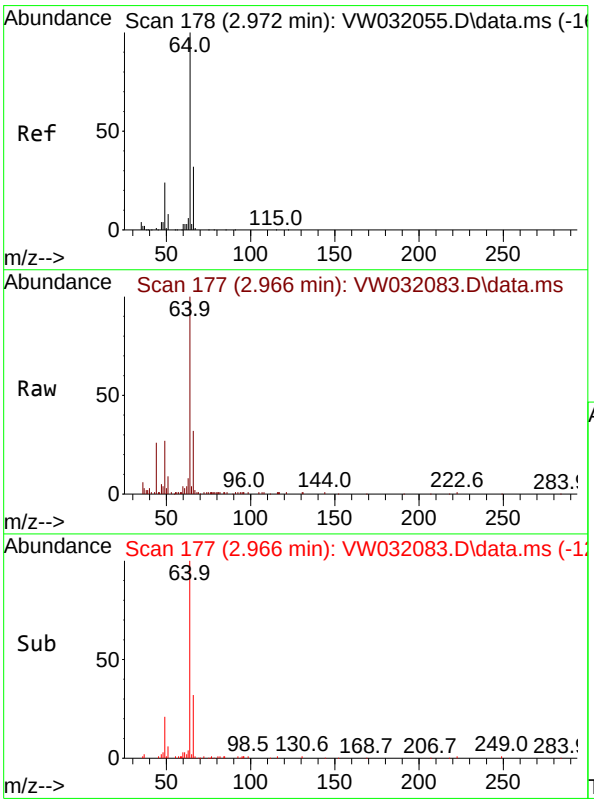
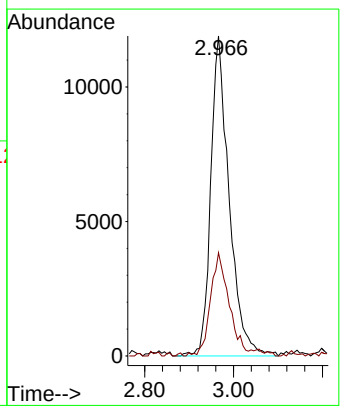
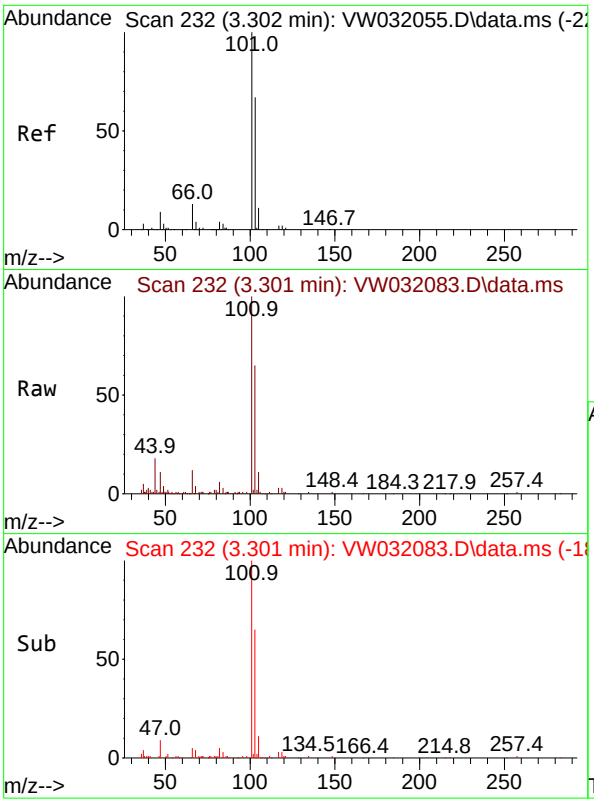


#6
Chloroethane
Concen: 20.341 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 64 Resp: 34212

Ion	Ratio	Lower	Upper
64	100		
66	32.2	26.0	39.0

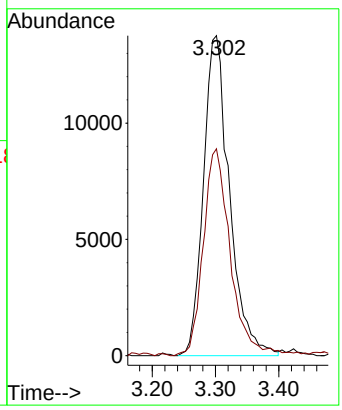




#7
Trichlorofluoromethane
Concen: 19.357 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:101 Resp: 3941

Ion	Ratio	Lower	Upper
101	100		
103	64.0	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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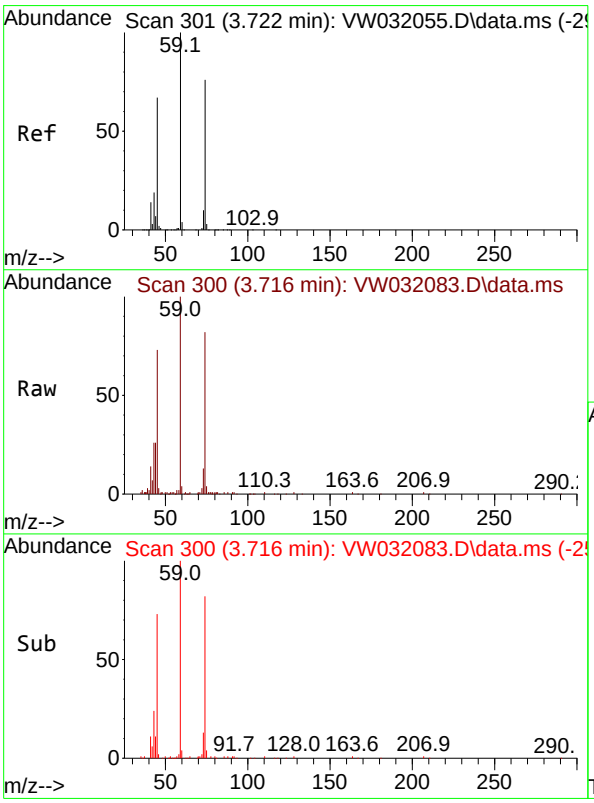
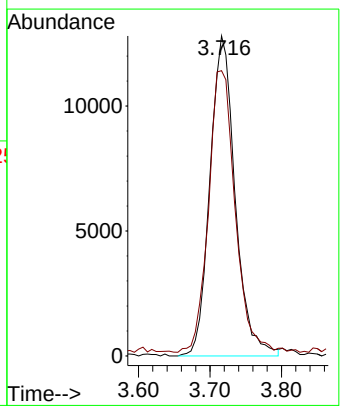
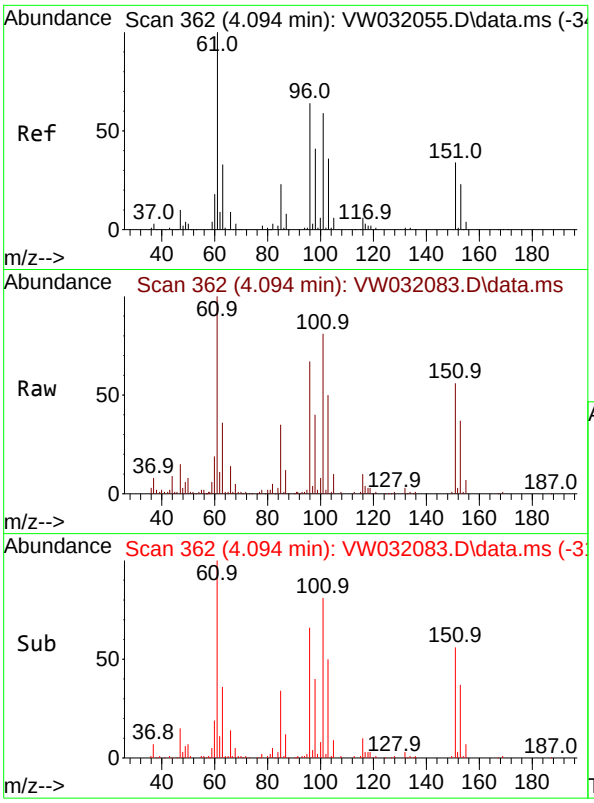


#8
Diethyl Ether
Concen: 18.808 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 74 Resp: 31376

Ion	Ratio	Lower	Upper
74	100		
45	93.2	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.341 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:101 Resp: 5366

Ion	Ratio	Lower	Upper
101	100		
85	44.5	34.9	52.3
151	72.8	56.2	84.4

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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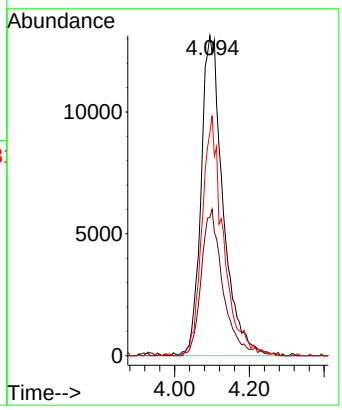
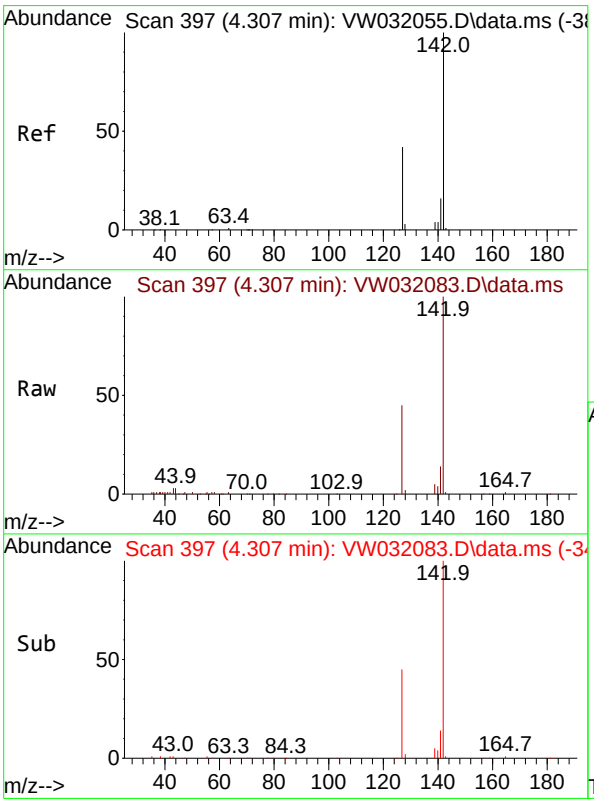
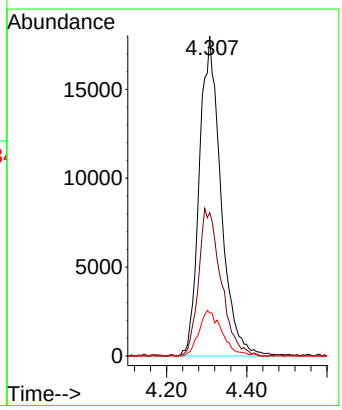


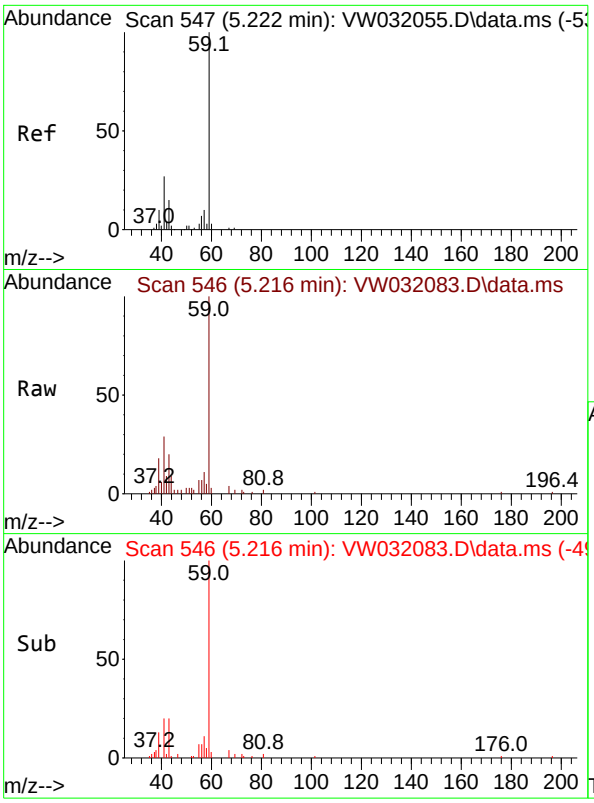


#10
Methyl Iodide
Concen: 19.745 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:142 Resp: 67253

Ion	Ratio	Lower	Upper
142	100		
127	47.8	36.6	55.0
141	15.1	12.1	18.1





#11
Tert butyl alcohol
Concen: 79.711 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 59 Resp: 1628

Ion	Ratio	Lower	Upper
59	100		
57	12.8	8.7	13.1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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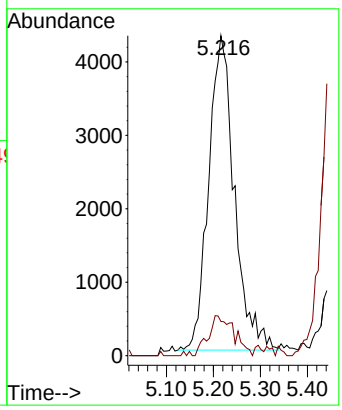
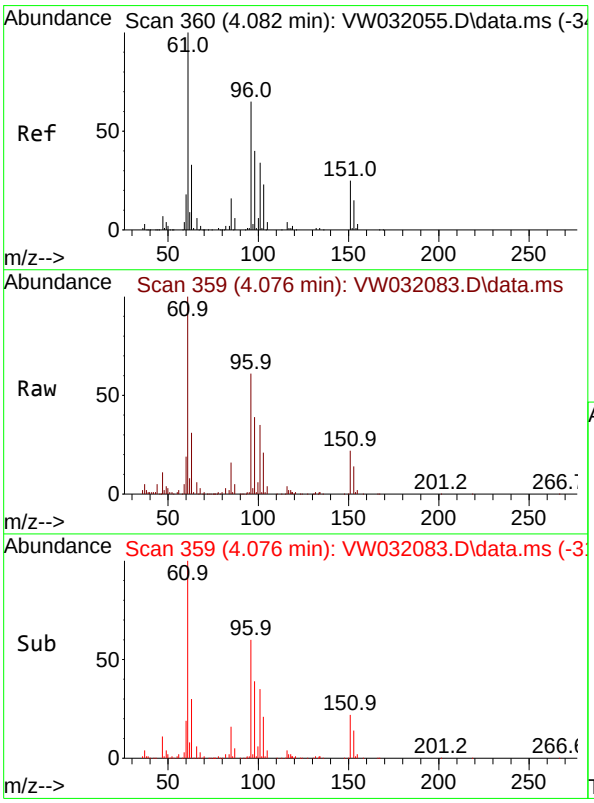
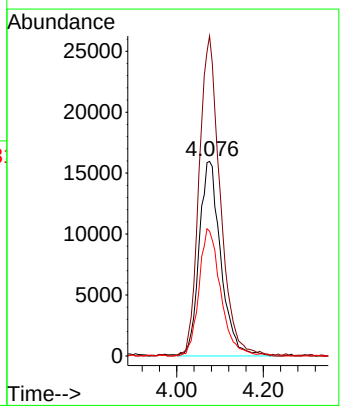


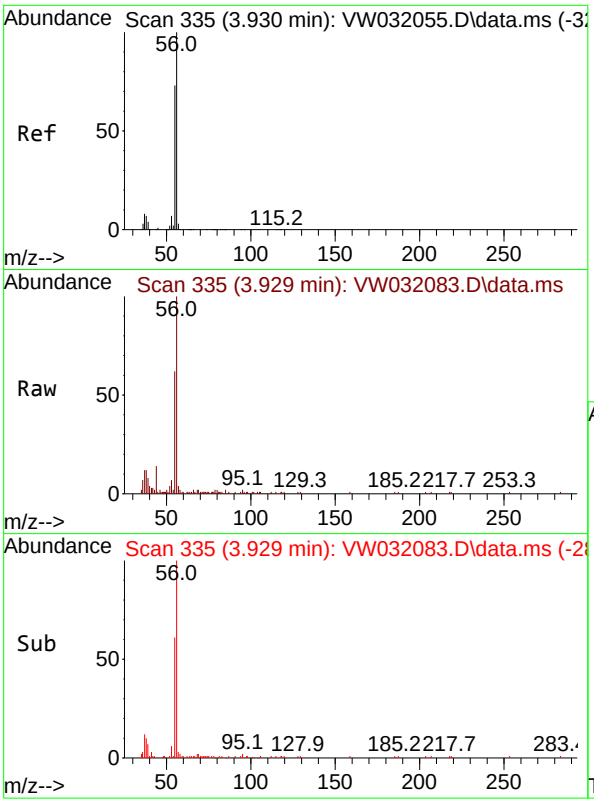


#12
1,1-Dichloroethene
Concen: 20.886 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 96 Resp: 55246

Ion	Ratio	Lower	Upper
96	100		
61	163.8	123.4	185.2
98	64.1	49.5	74.3

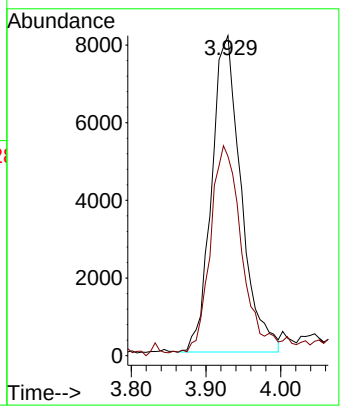




#13
Acrolein
Concen: 68.782 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 56 Resp: 2238

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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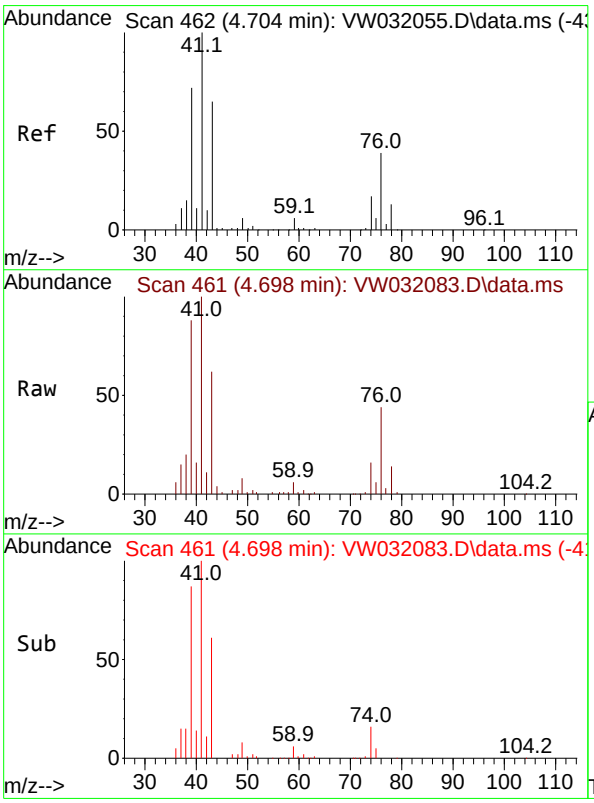
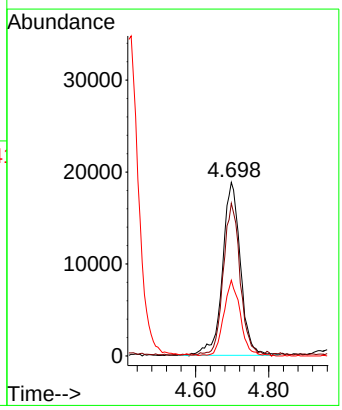
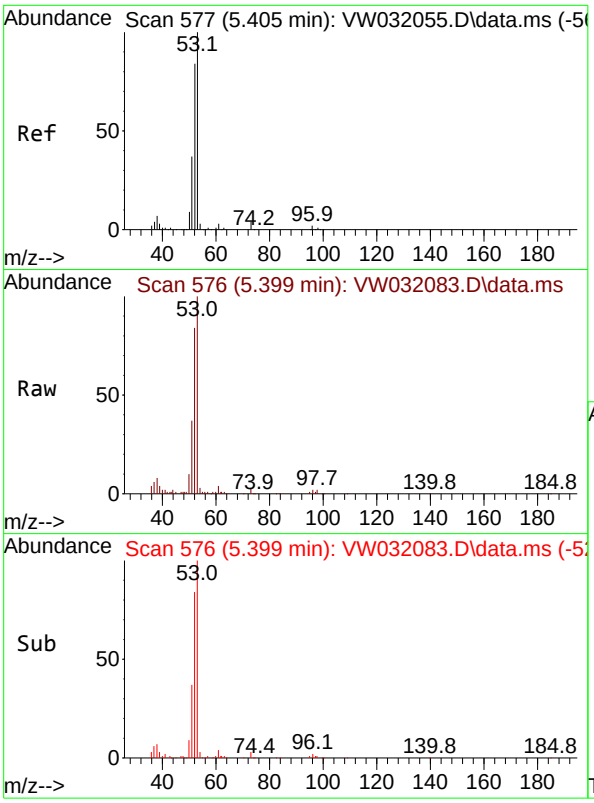


#14
Allyl chloride
Concen: 16.695 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 41 Resp: 64273

Ion	Ratio	Lower	Upper
41	100		
39	81.2	54.5	81.7
76	39.4	29.3	43.9

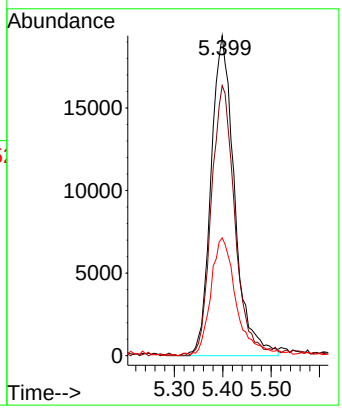




#15
Acrylonitrile
Concen: 82.359 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 53 Resp: 6544

Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.1	99.1
51	38.8	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
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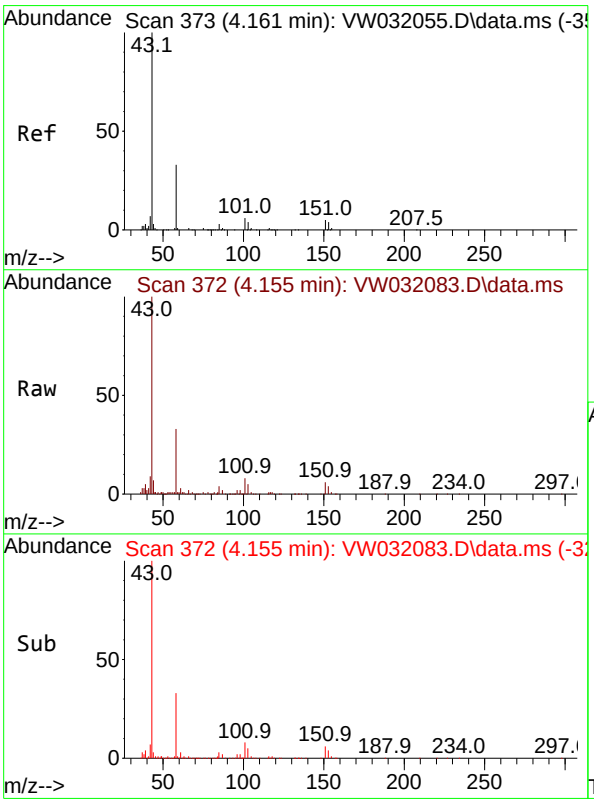
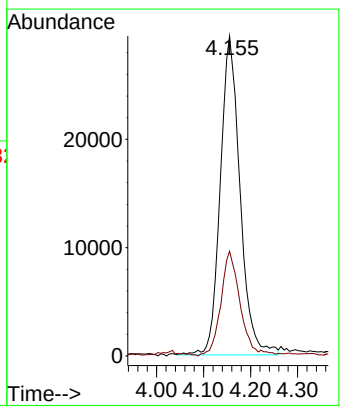
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

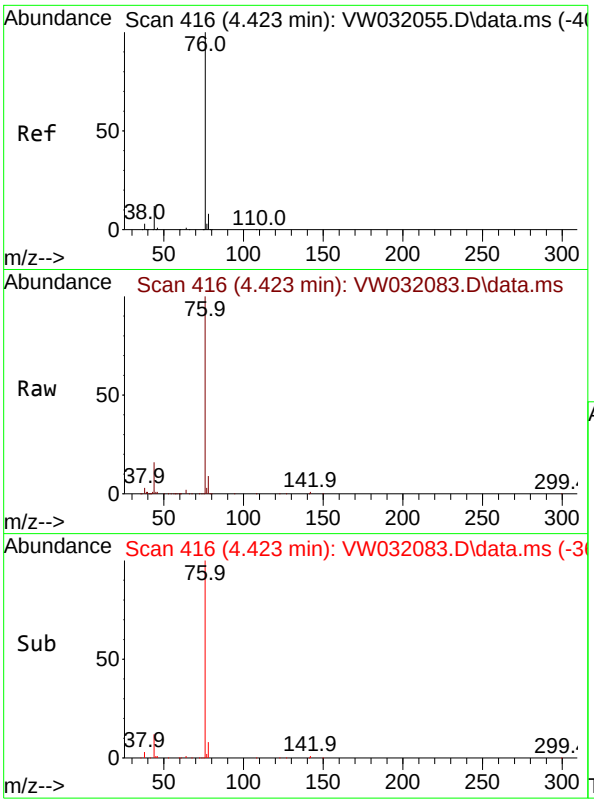


#16
Acetone
Concen: 117.944 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 86139

Ion	Ratio	Lower	Upper
43	100		
58	32.0	26.6	39.8

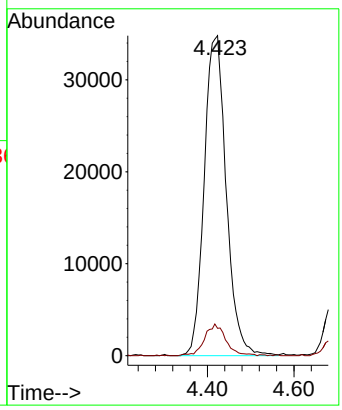




#17
Carbon Disulfide
Concen: 17.333 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 76 Resp: 12306

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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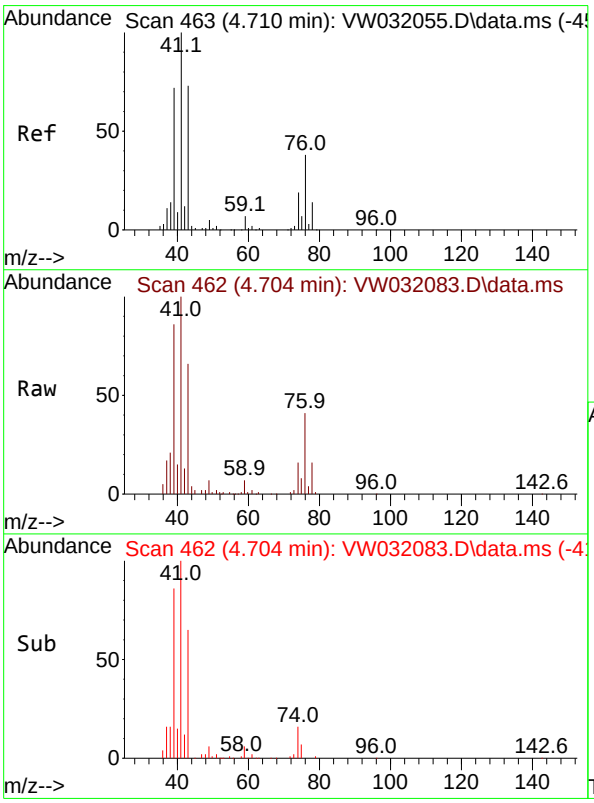
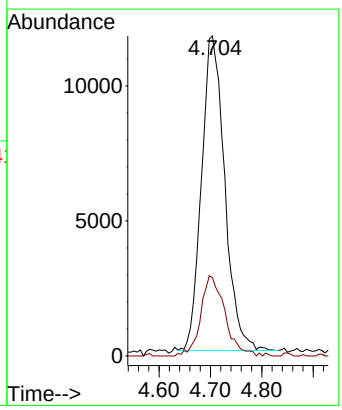
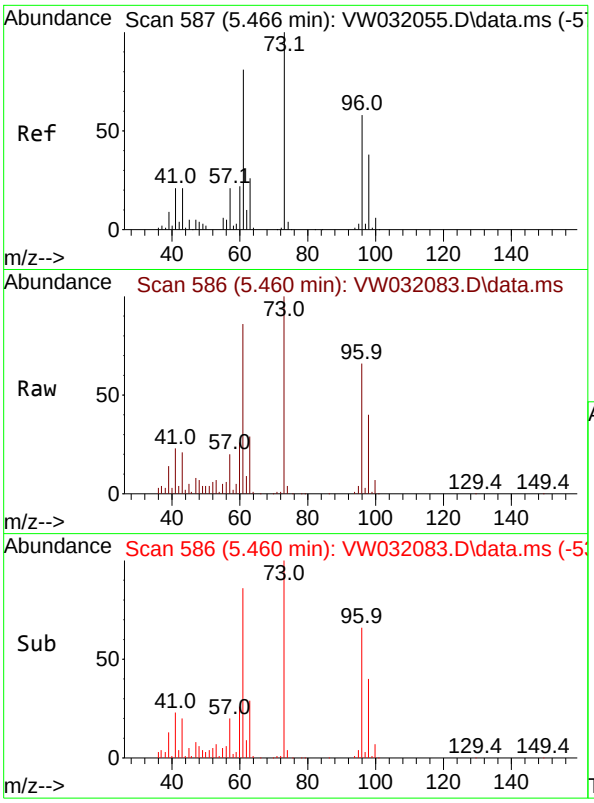


#18
Methyl Acetate
Concen: 15.808 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 36534

Ion	Ratio	Lower	Upper
43	100		
74	26.5	20.6	31.0

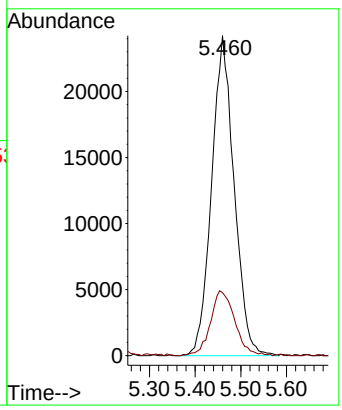




#19
Methyl tert-butyl Ether
Concen: 17.775 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 73 Resp: 8284

Ion	Ratio	Lower	Upper
73	100		
57	19.7	17.2	25.8



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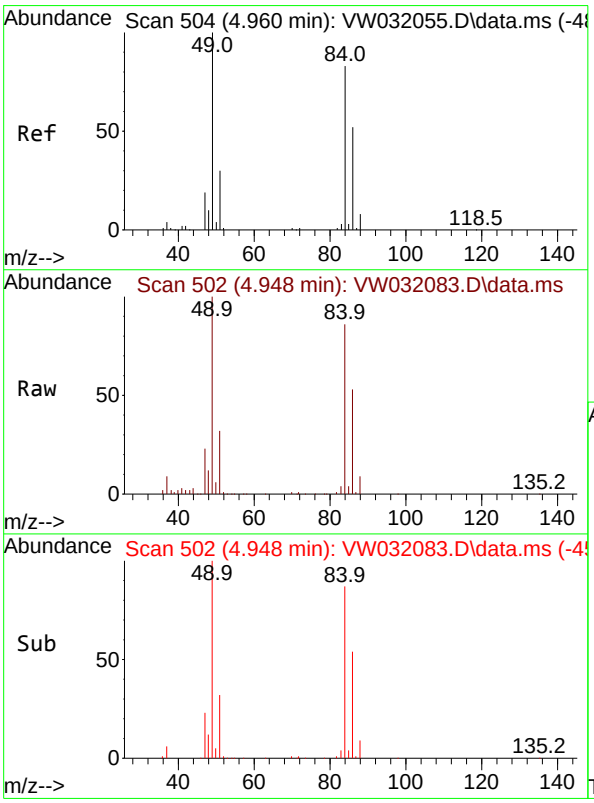
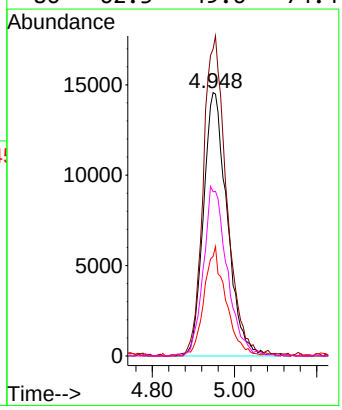
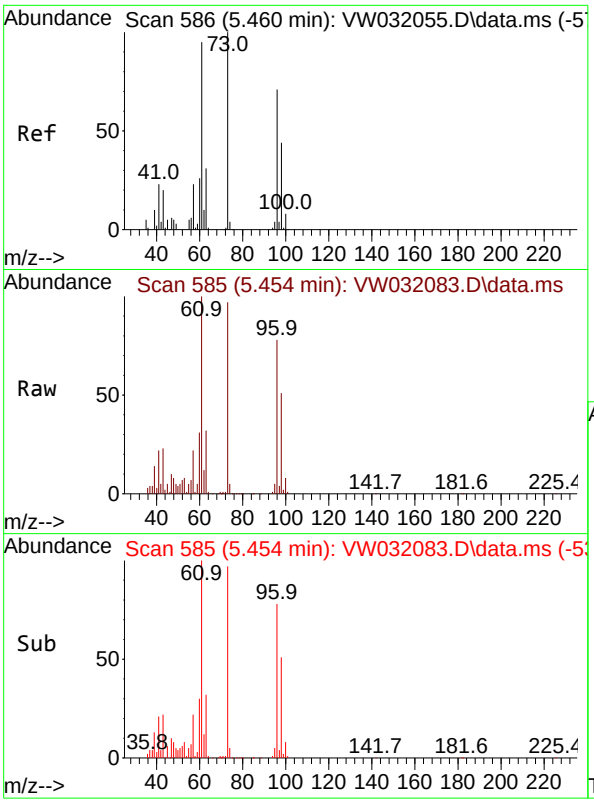


#20
Methylene Chloride
Concen: 17.289 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 84 Resp: 58381

Ion	Ratio	Lower	Upper
84	100		
49	116.0	95.9	143.9
51	37.4	28.6	43.0
86	62.3	49.6	74.4

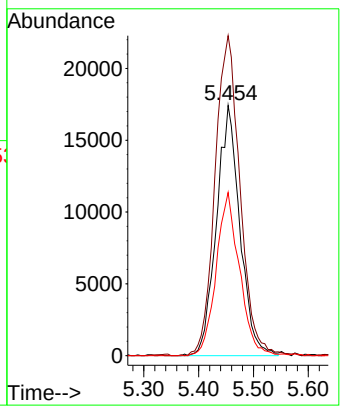




#21
trans-1,2-Dichloroethene
Concen: 18.442 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 96 Resp: 5176

Ion	Ratio	Lower	Upper
96	100		
61	127.9	106.8	160.2
98	65.2	49.6	74.4



Instrument :
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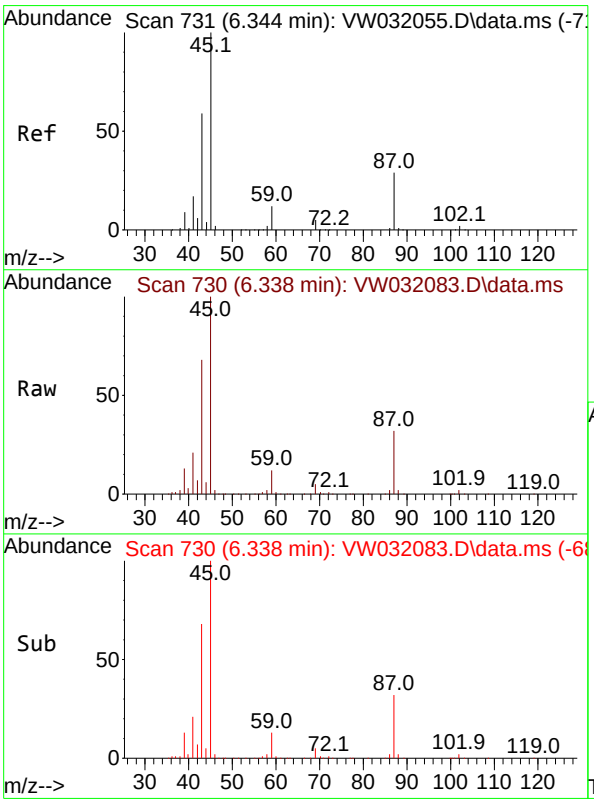
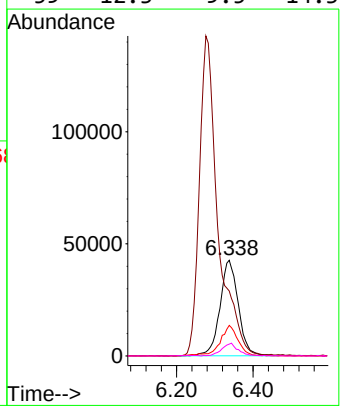
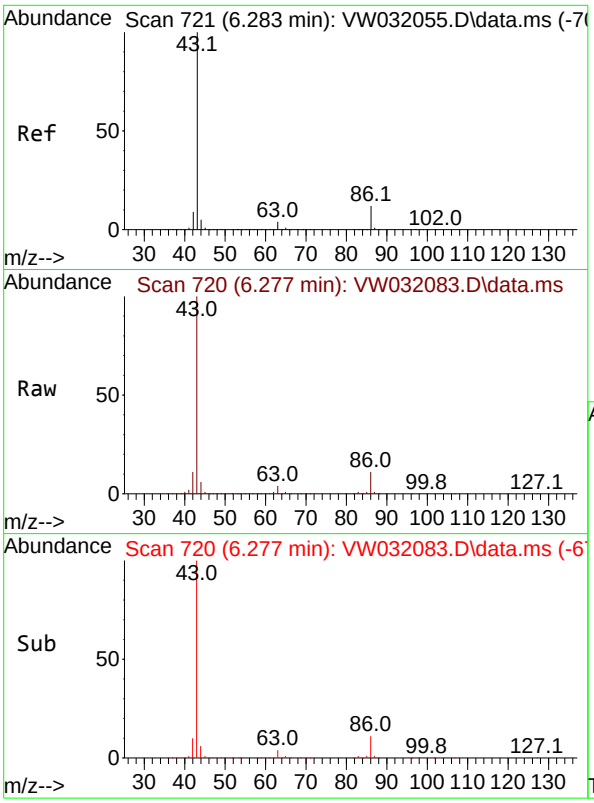


#22
Diisopropyl ether
Concen: 17.452 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 45 Resp: 141639

Ion	Ratio	Lower	Upper
45	100		
43	67.7	47.0	70.4
87	31.9	23.8	35.8
59	12.3	9.5	14.3





#23
Vinyl Acetate
Concen: 90.338 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 48136

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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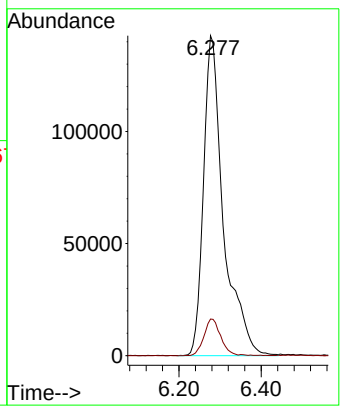
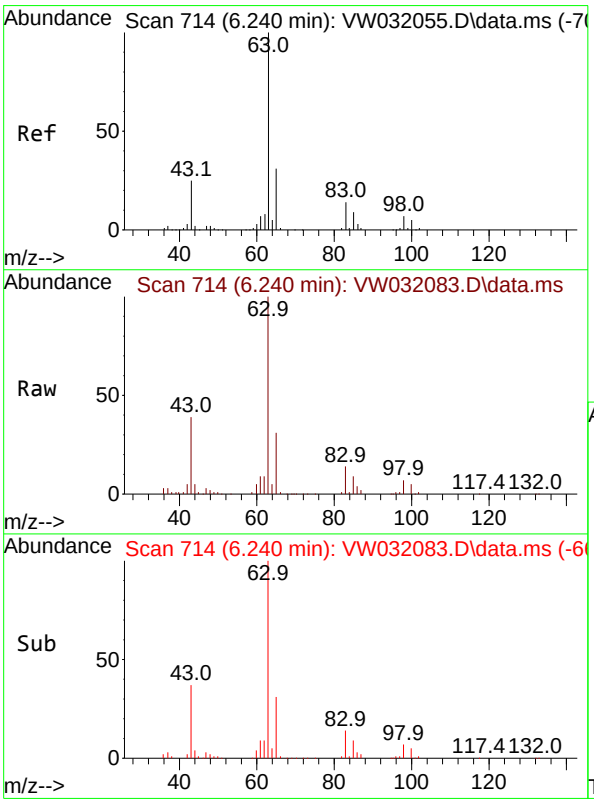
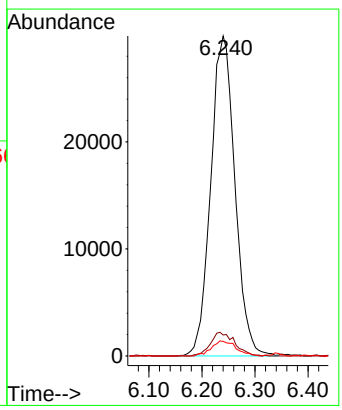


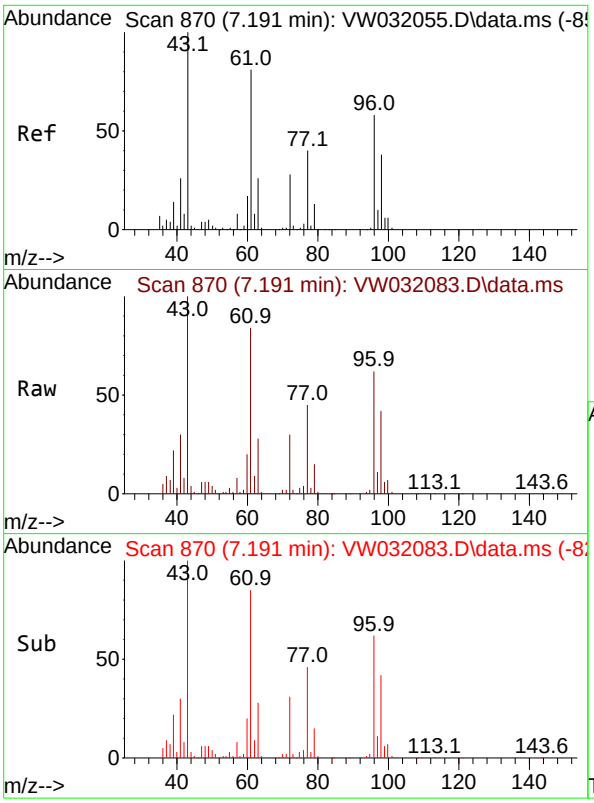


#24
1,1-Dichloroethane
Concen: 18.303 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 63 Resp: 94906

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.7	11.1
100	4.6	2.5	7.4





#25
2-Butanone
Concen: 91.978 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 9547

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.3	33.5

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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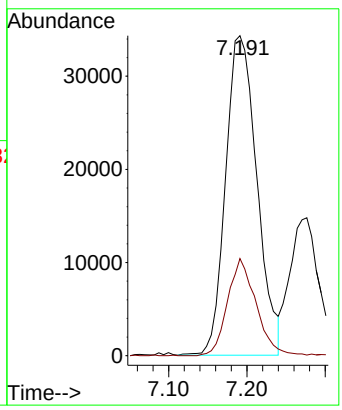
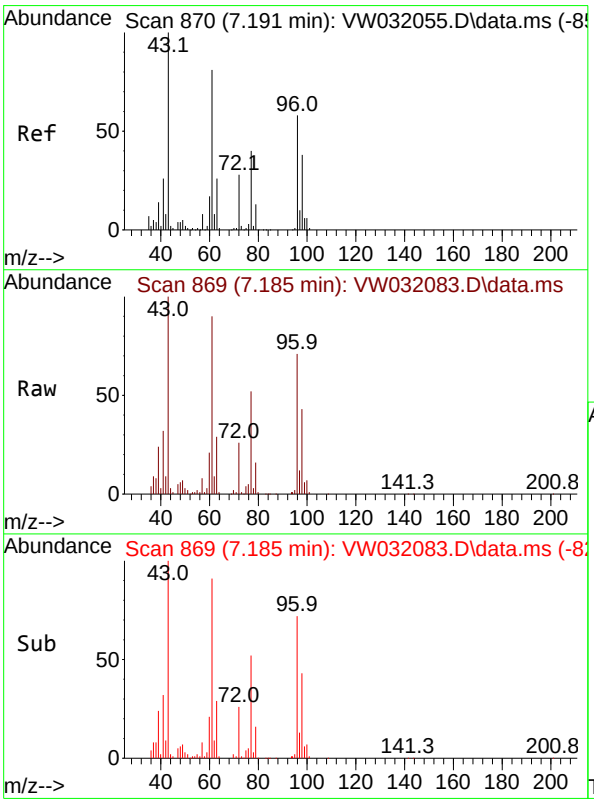
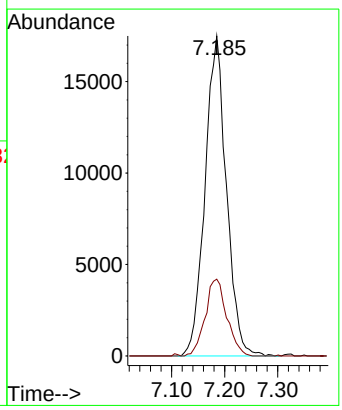


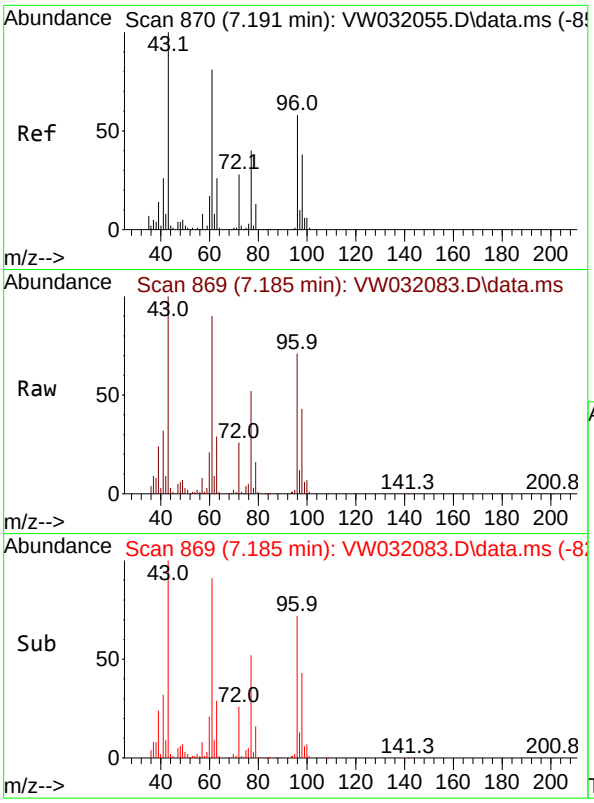


#26
2,2-Dichloropropane
Concen: 18.841 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 77 Resp: 49013

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 18.864 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 96 Resp: 6189

Ion	Ratio	Lower	Upper
96	100		
61	131.5	0.0	281.2
98	63.0	0.0	130.8

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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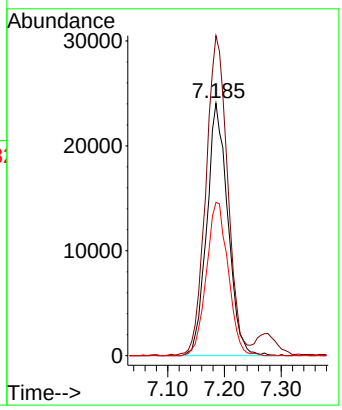
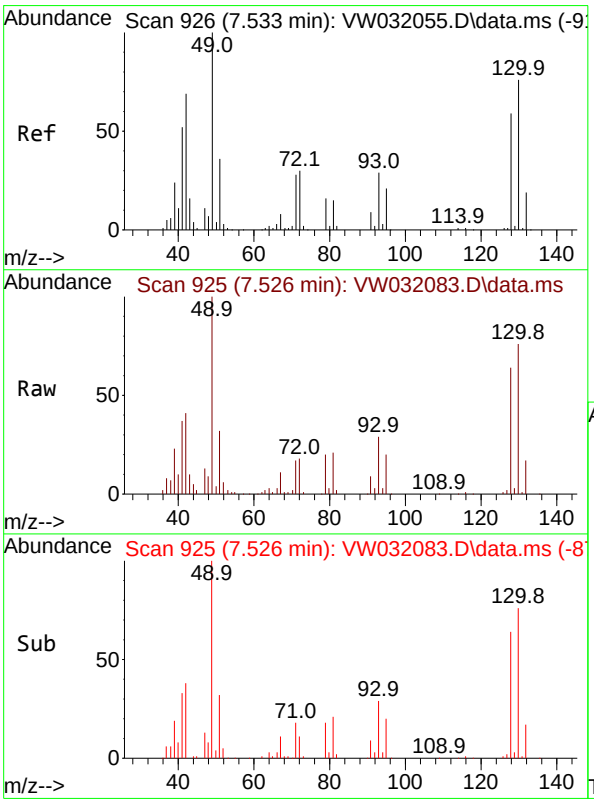
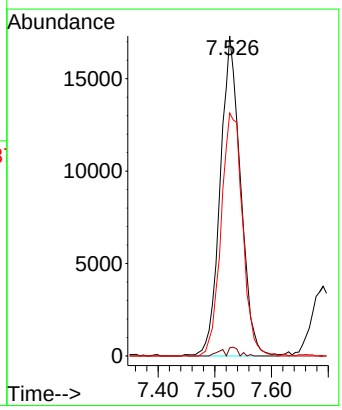


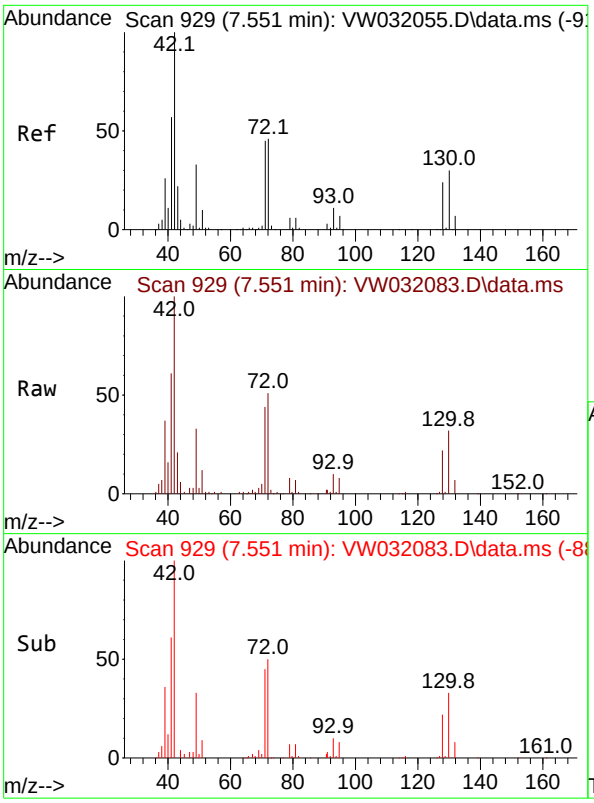


#28
Bromochloromethane
Concen: 18.270 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 49 Resp: 43111

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.2
130	80.0	61.9	92.9

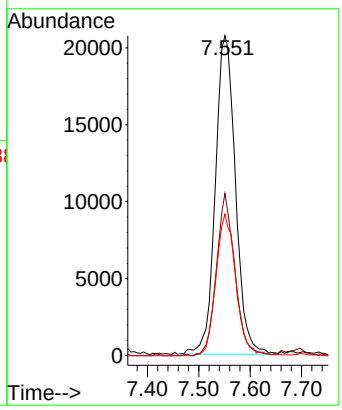




#29
Tetrahydrofuran
Concen: 82.447 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 42 Resp: 5643

Ion	Ratio	Lower	Upper
42	100		
72	46.6	36.6	55.0
71	43.9	34.7	52.1



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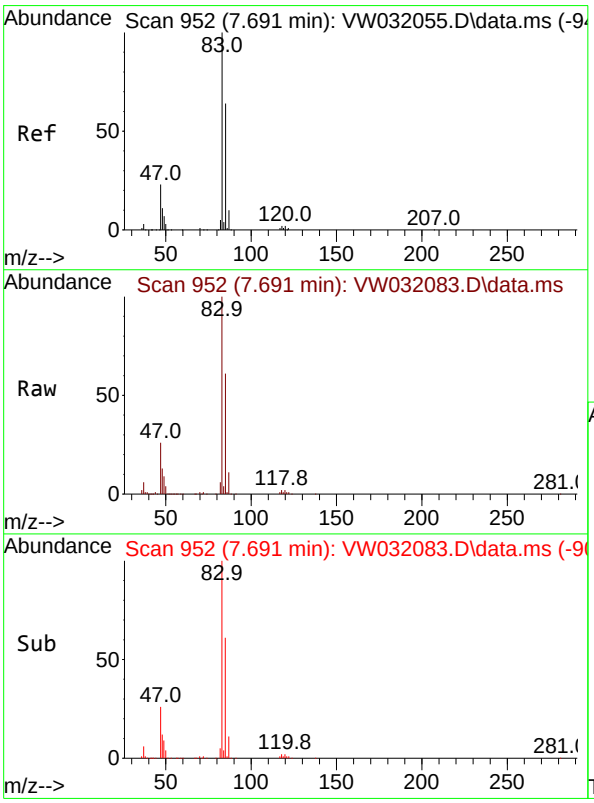
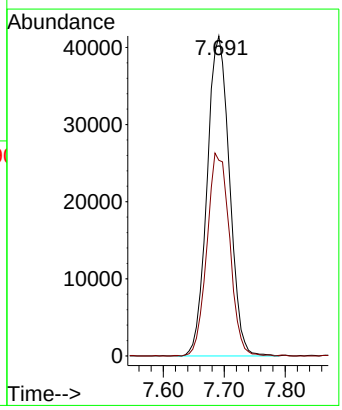
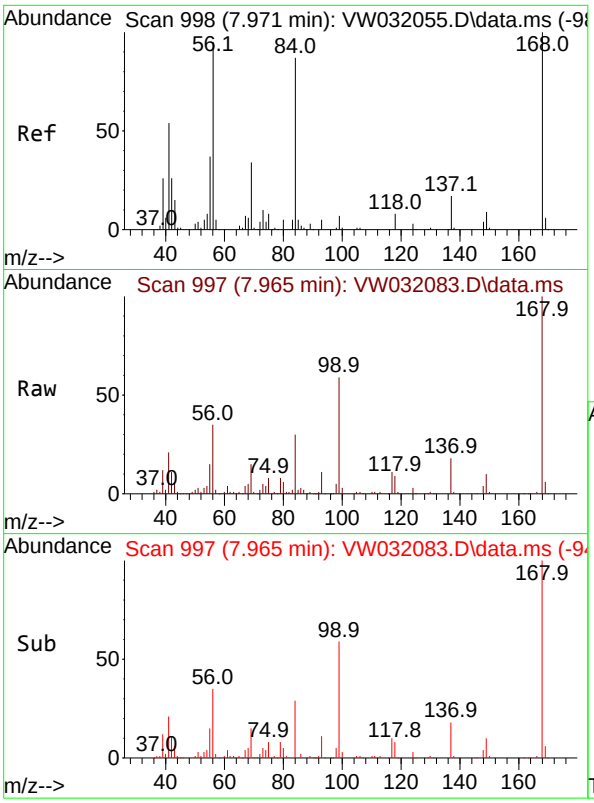


#30
Chloroform
Concen: 19.239 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 83 Resp: 105761

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.0	76.4

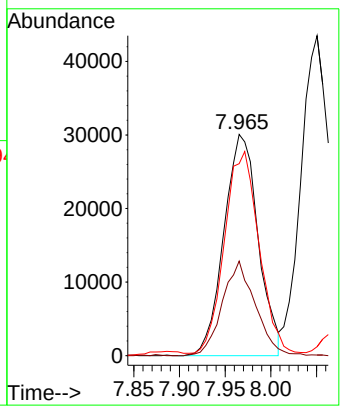




#31
Cyclohexane
Concen: 17.431 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 56 Resp: 7835

Ion	Ratio	Lower	Upper
56	100		
69	42.2	28.6	42.8
84	85.0	73.0	109.4



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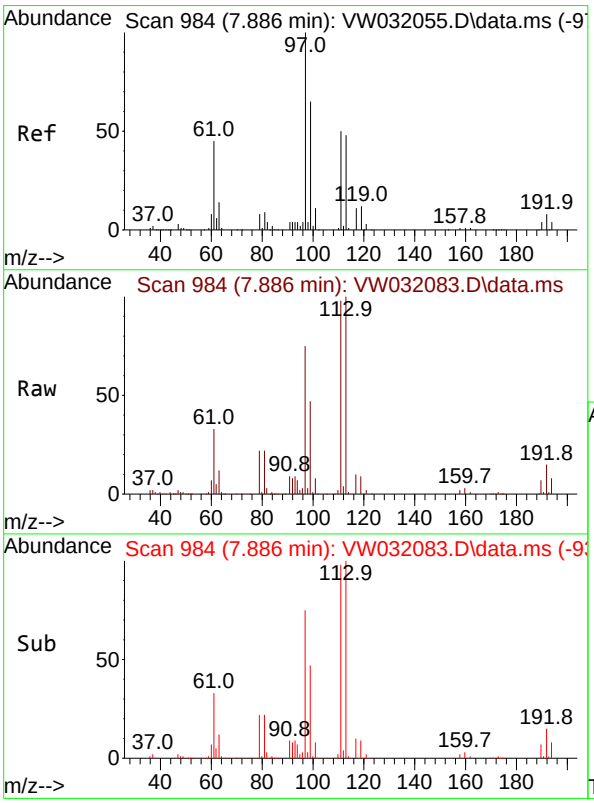
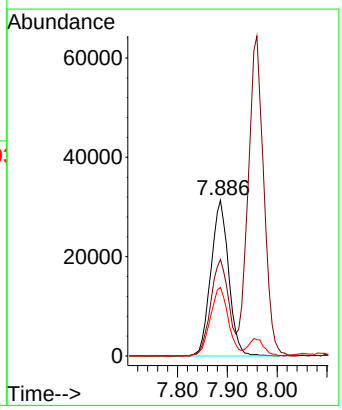
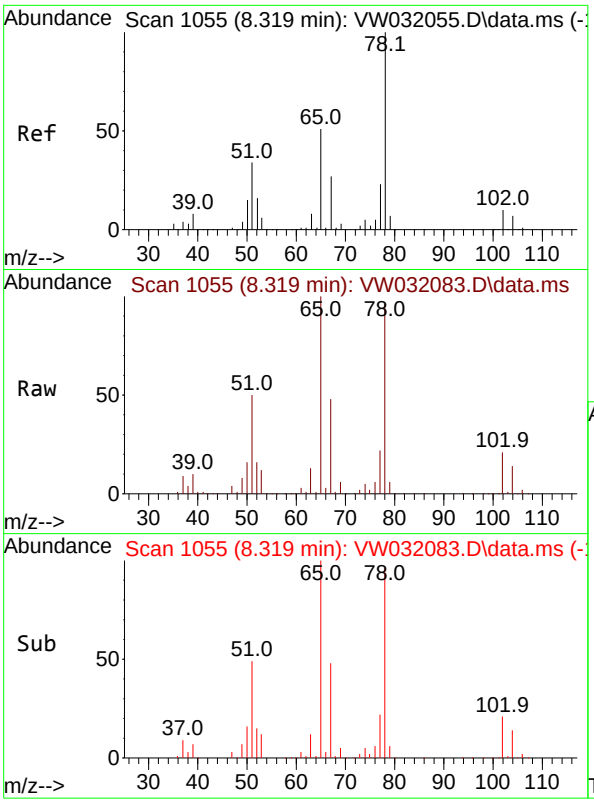


#32
1,1,1-Trichloroethane
Concen: 19.425 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 97 Resp: 77562

Ion	Ratio	Lower	Upper
97	100		
99	62.4	51.8	77.8
61	44.8	35.9	53.9

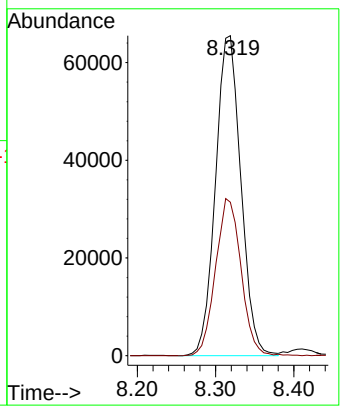




#33
1,2-Dichloroethane-d4
Concen: 46.808 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 65 Resp: 14765

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	102.4



Instrument :
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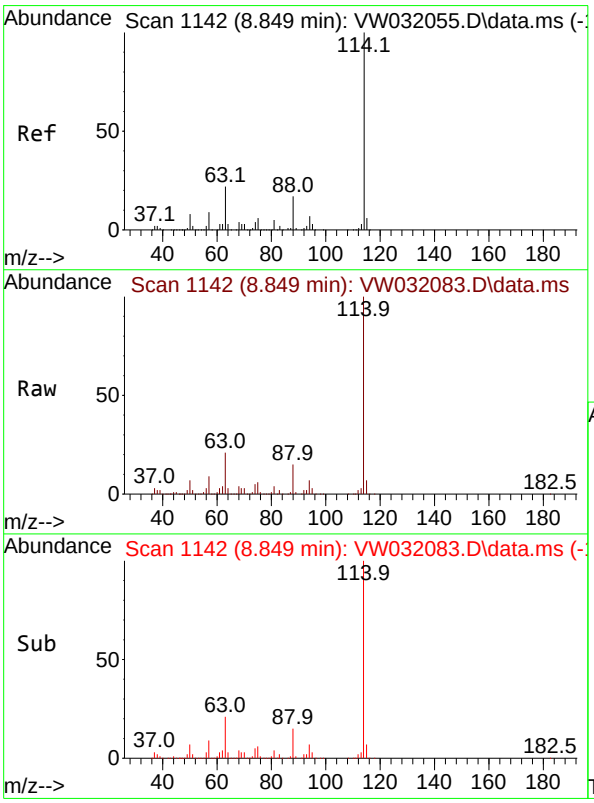
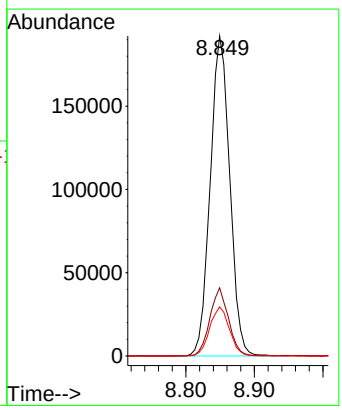
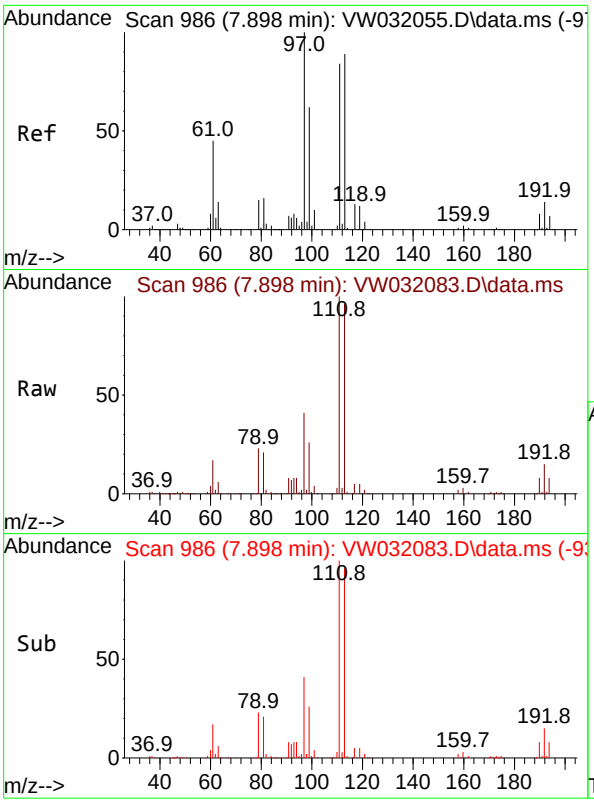


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:114 Resp: 379951

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	15.4	0.0	33.8

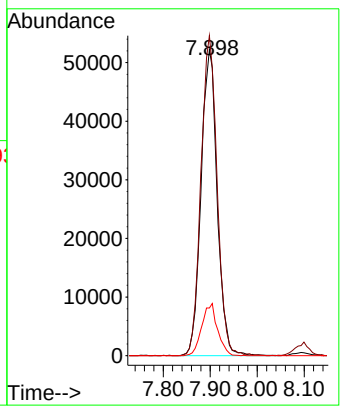




#35
Dibromofluoromethane
Concen: 50.548 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:113 Resp: 12407

Ion	Ratio	Lower	Upper
113	100		
111	105.0	80.1	120.1
192	16.7	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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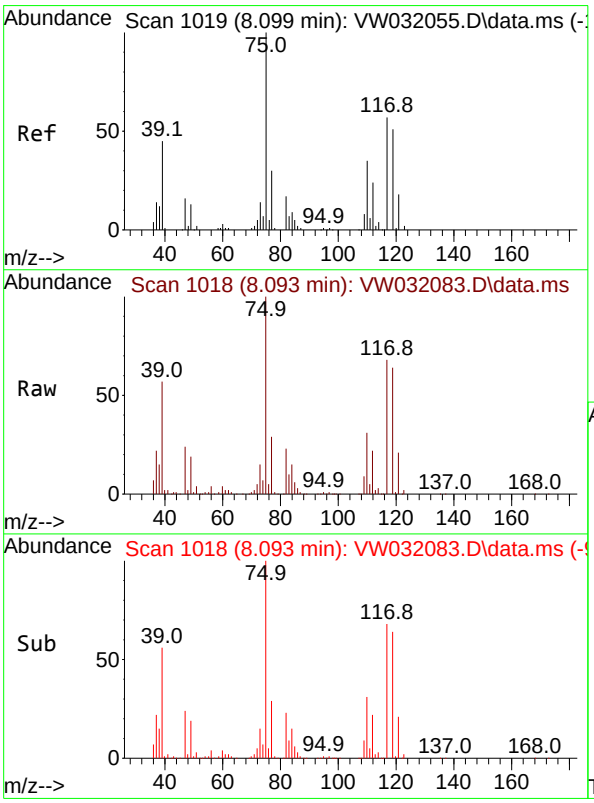
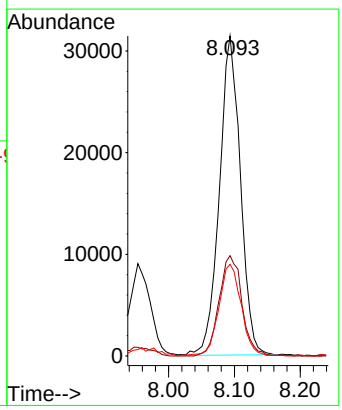
Supervised By :Mahesh Dadoda 08/19/2025

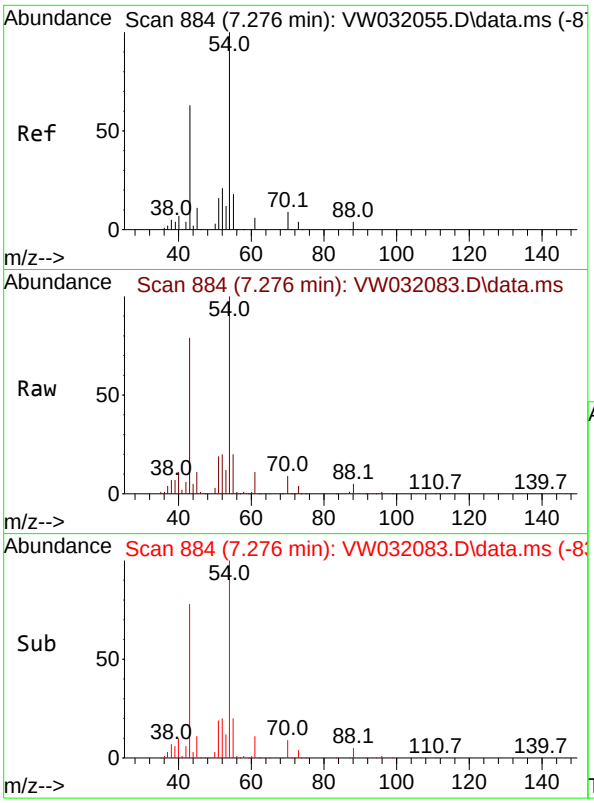


#36
1,1-Dichloropropene
Concen: 20.189 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 69861

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.4	52.2
77	30.6	24.7	37.1





#37
Ethyl Acetate
Concen: 19.240 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 3921

Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.8	17.6
70	10.9	9.4	14.0

Instrument :
MSVOA_W
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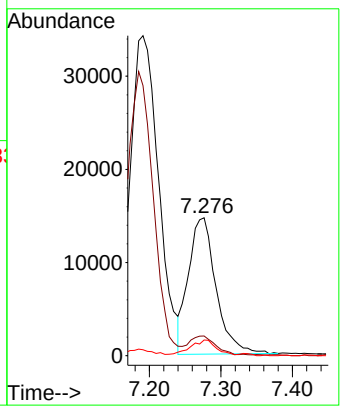
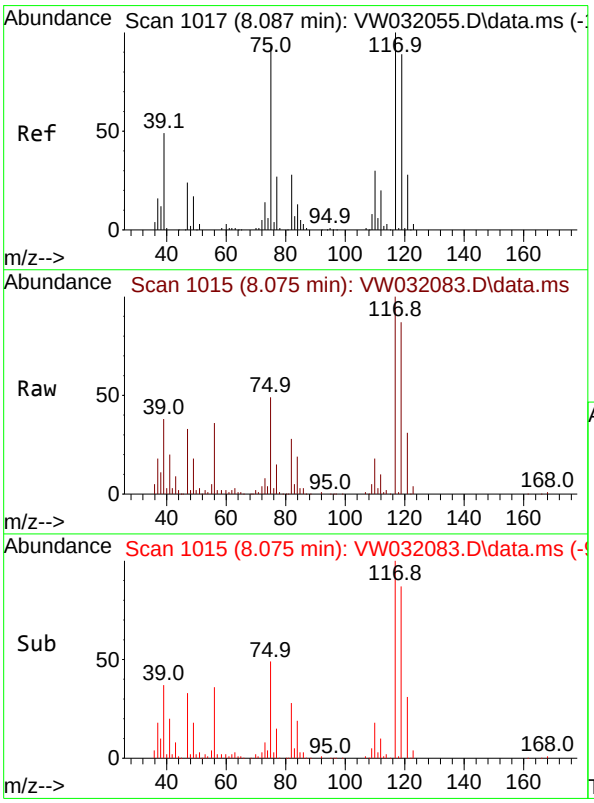
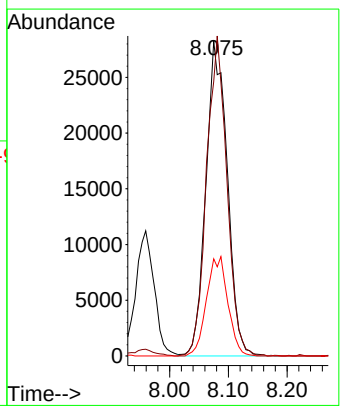


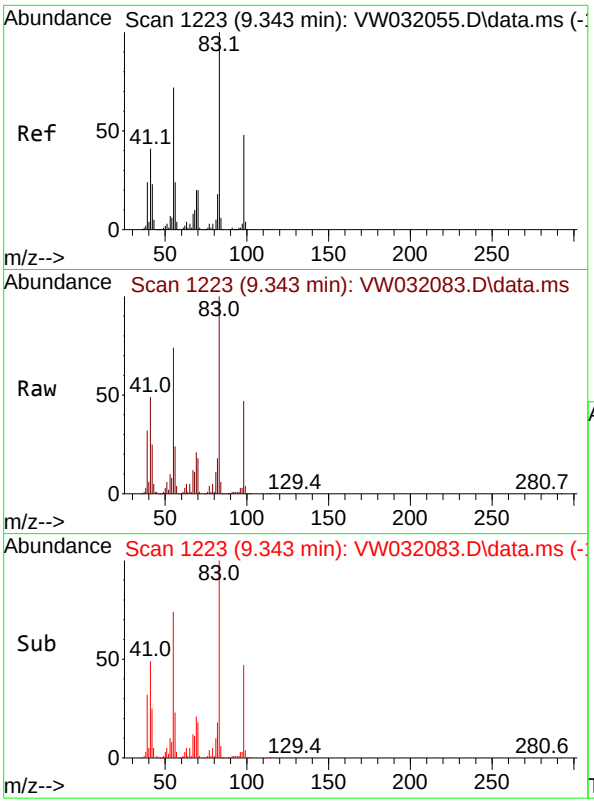


#38
Carbon Tetrachloride
Concen: 21.419 ug/l
RT: 8.075 min Scan# 1015
Delta R.T. -0.012 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:117 Resp: 71526

Ion	Ratio	Lower	Upper
117	100		
119	87.2	71.4	107.2
121	30.8	22.3	33.5





#39
Methylcyclohexane
Concen: 19.402 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 83 Resp: 8183

Ion	Ratio	Lower	Upper
83	100		
55	74.1	57.9	86.9
98	47.3	38.3	57.5

Instrument :
MSVOA_W
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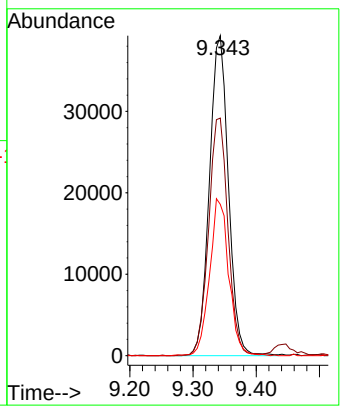
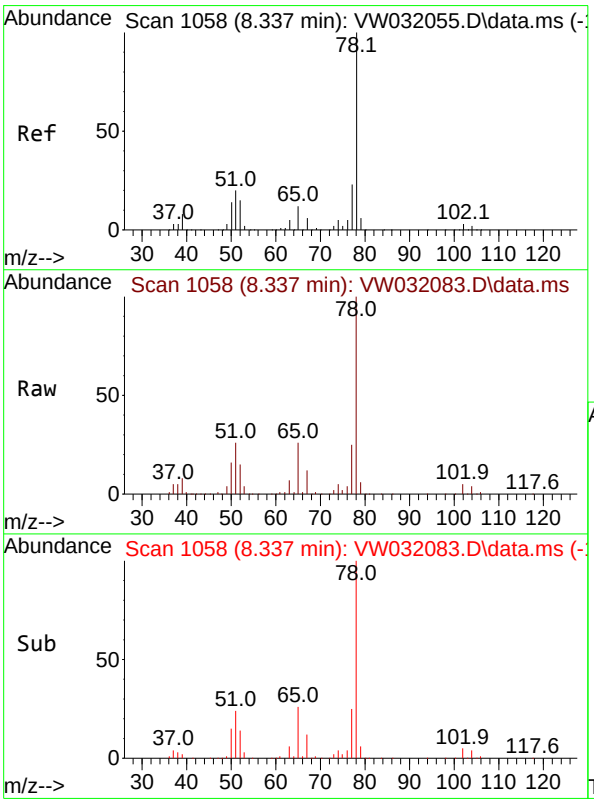
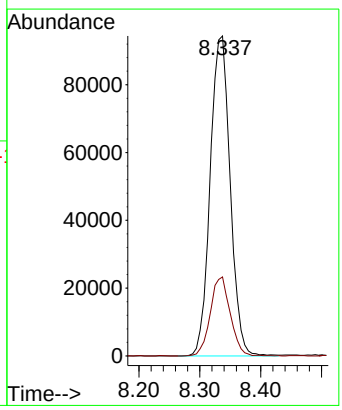


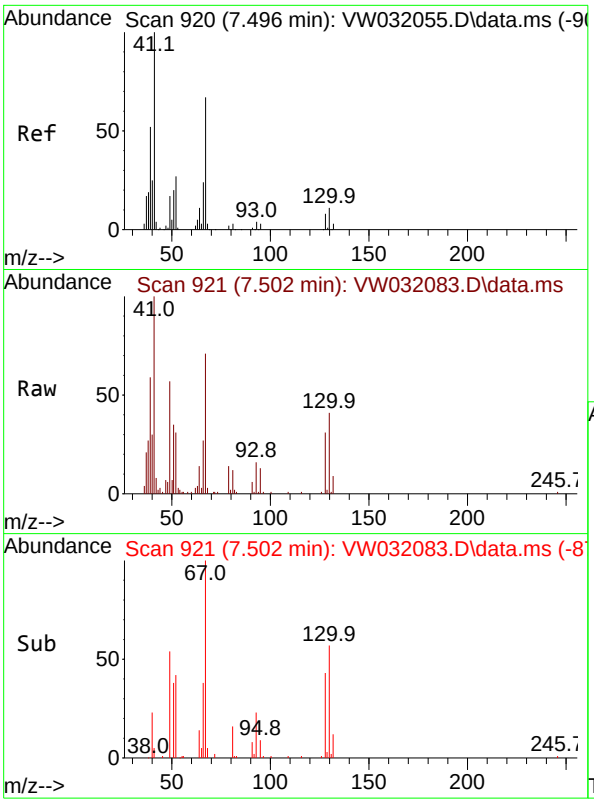


#40
Benzene
Concen: 19.983 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 78 Resp: 214937

Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.4	27.6

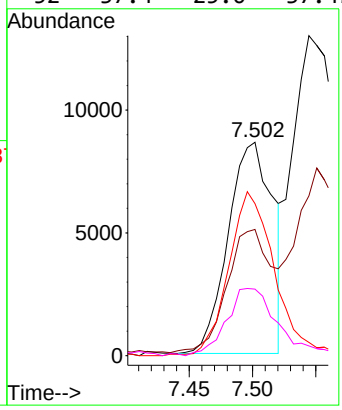




#41
Methacrylonitrile
Concen: 18.301 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 41 Resp: 2115

Ion	Ratio	Lower	Upper
41	100		
39	59.2	42.6	63.8
67	80.1	61.0	91.4
52	37.4	25.0	37.4#



Instrument :
MSVOA_W
ClientSampleId :
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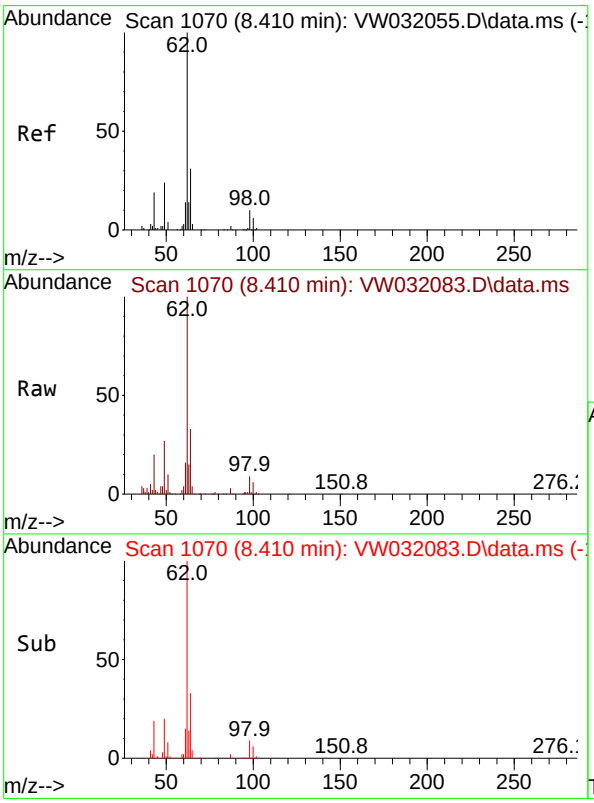
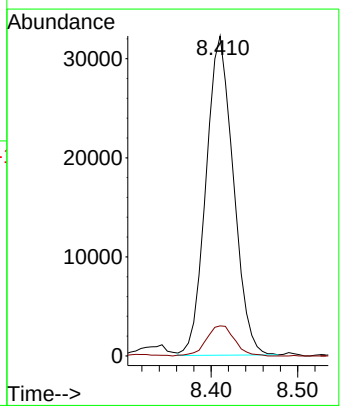
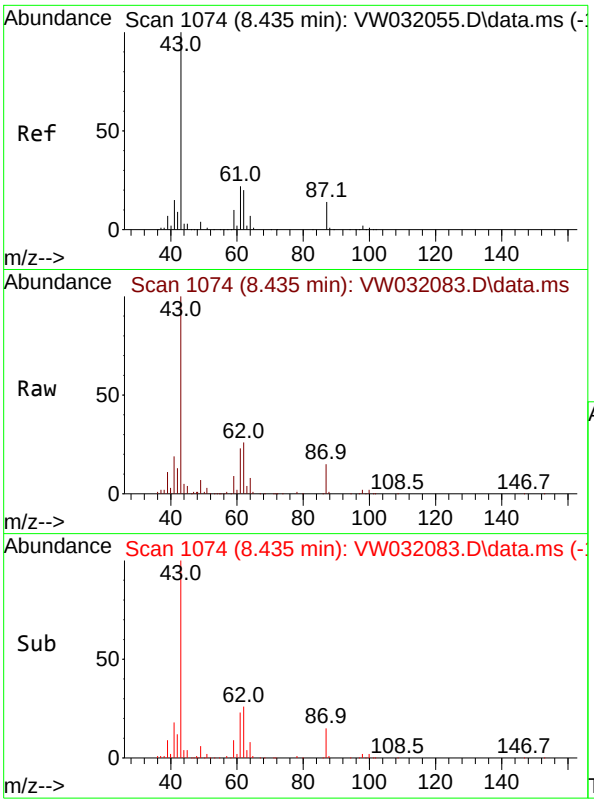


#42
1,2-Dichloroethane
Concen: 20.552 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 62 Resp: 70737

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8

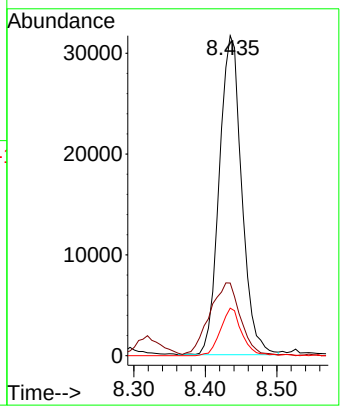




#43
Isopropyl Acetate
Concen: 18.403 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 6900

Ion	Ratio	Lower	Upper
43	100		
61	30.6	23.8	35.8
87	14.1	11.7	17.5



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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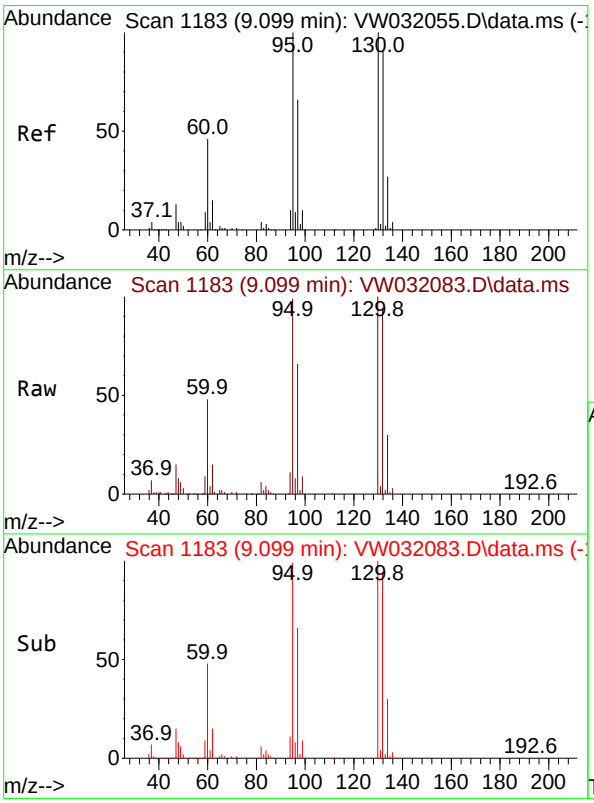
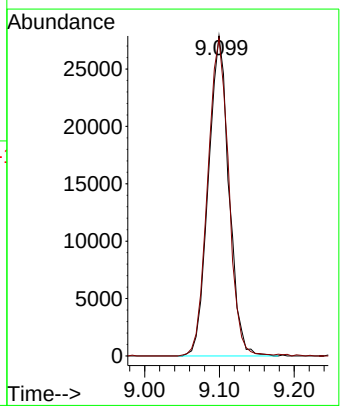
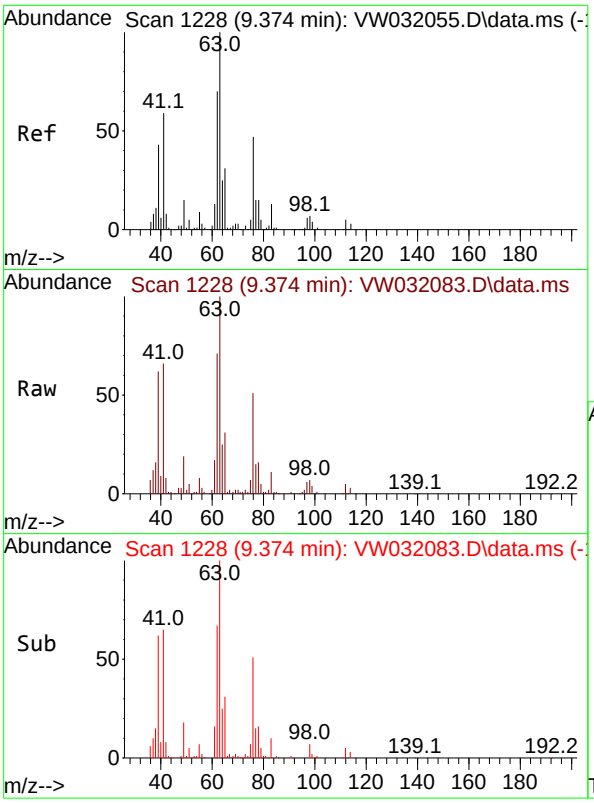


#44
Trichloroethene
Concen: 20.845 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:130 Resp: 53394

Ion	Ratio	Lower	Upper
130	100		
95	99.2	0.0	200.6





#45
1,2-Dichloropropane
Concen: 19.487 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 63 Resp: 5063

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.6	36.8

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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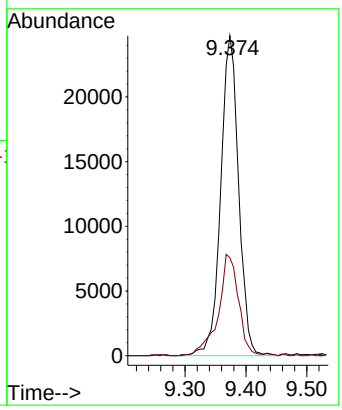
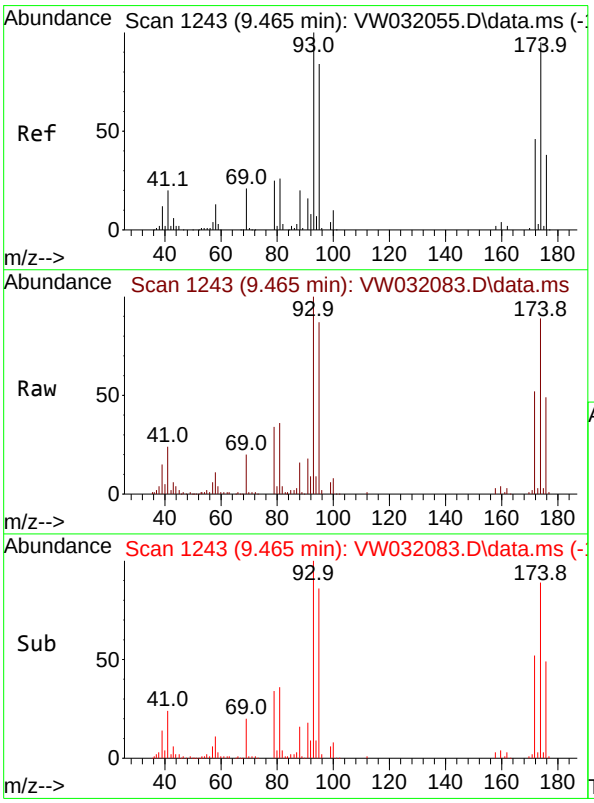
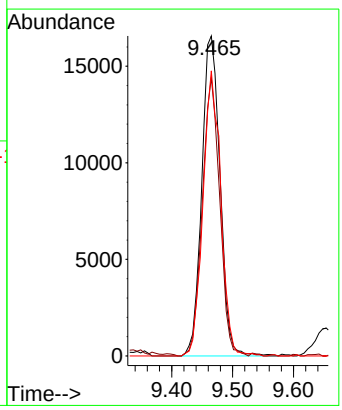


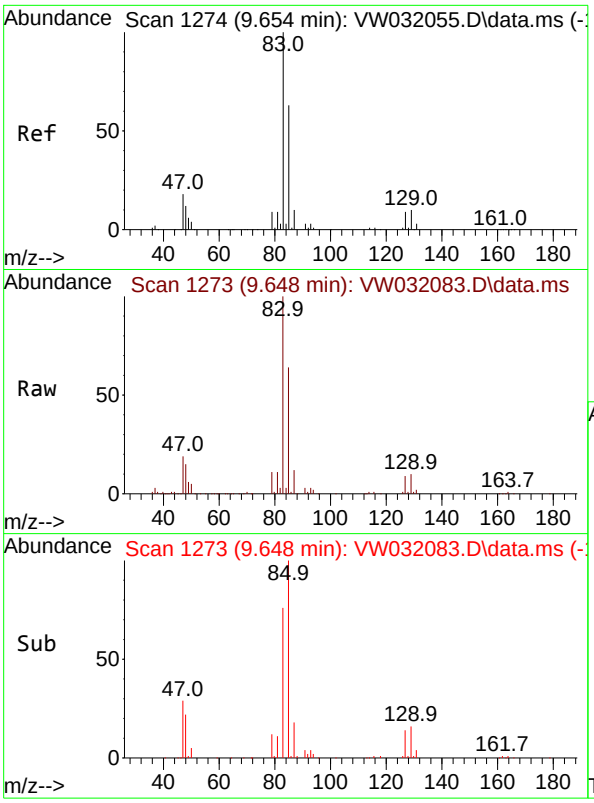


#46
Dibromomethane
Concen: 20.610 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 93 Resp: 34565

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.3	97.9
174	86.6	68.6	102.8

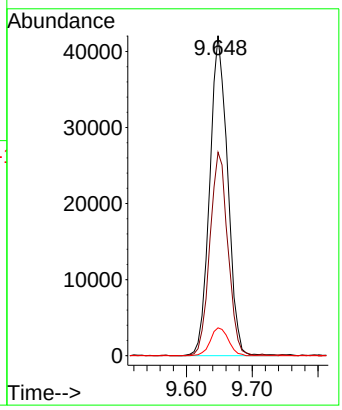




#47
Bromodichloromethane
Concen: 20.621 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 83 Resp: 7969

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	8.7	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
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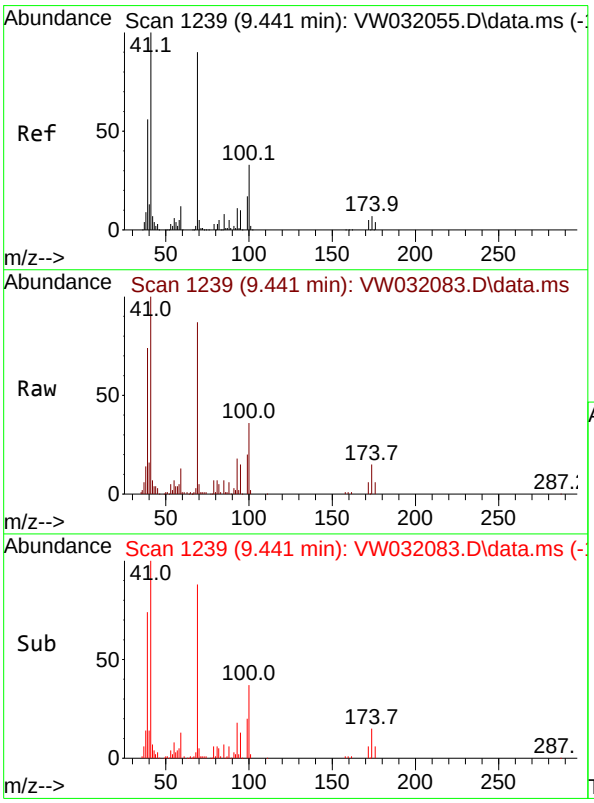
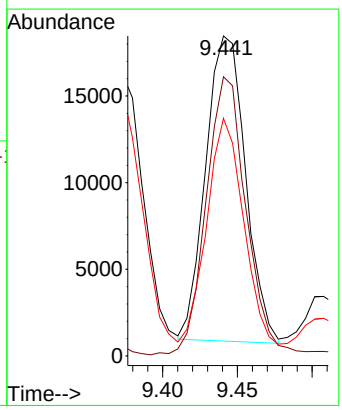
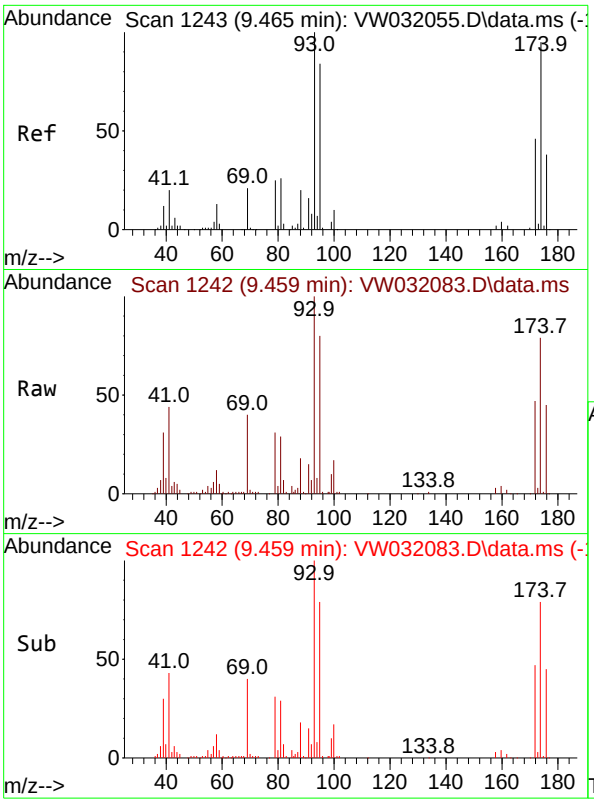


#48
Methyl methacrylate
Concen: 17.966 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 41 Resp: 32521

Ion	Ratio	Lower	Upper
41	100		
69	93.1	73.0	109.6
39	68.4	45.0	67.4#





#49
1,4-Dioxane
Concen: 387.463 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 88 Resp: 840

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	80.8	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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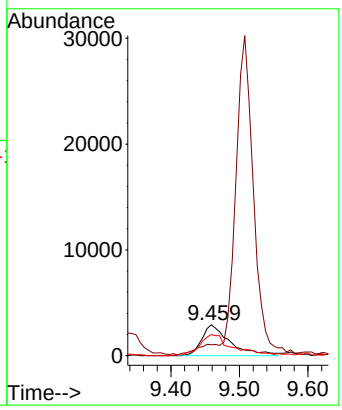
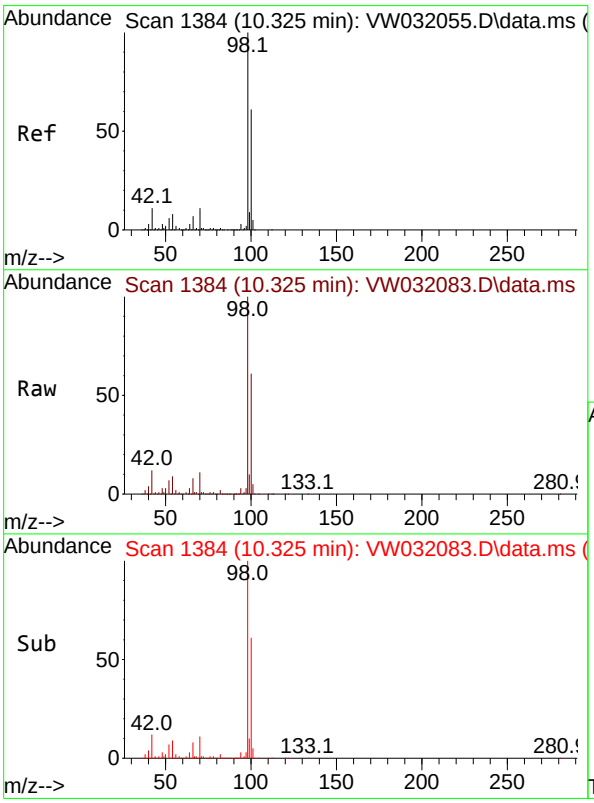
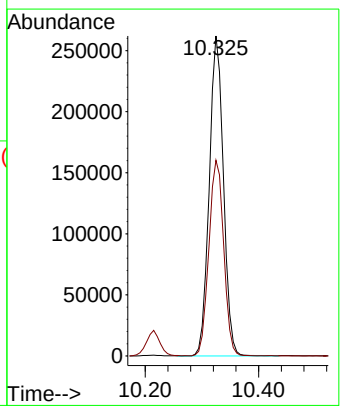


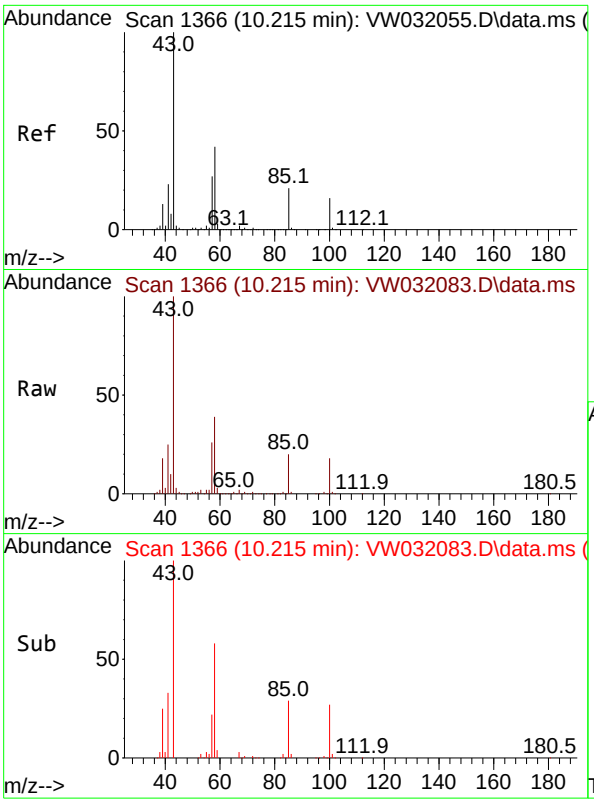


#50
Toluene-d8
Concen: 50.113 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 98 Resp: 454977

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 96.913 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 20510

Ion	Ratio	Lower	Upper
43	100		
58	38.5	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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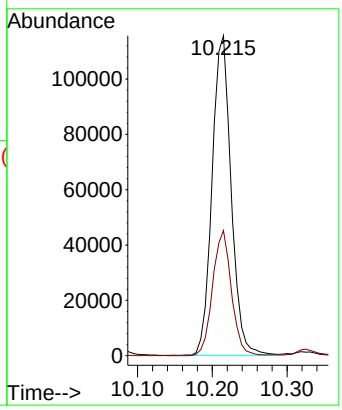
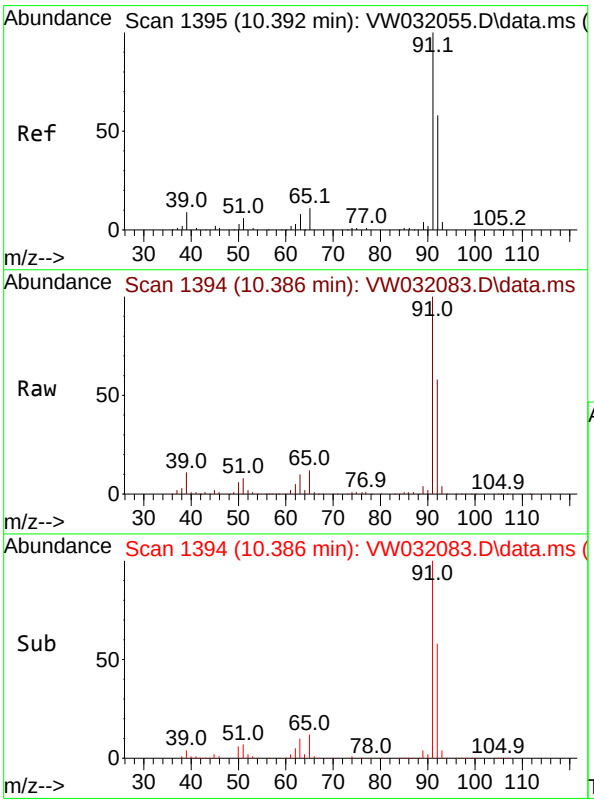
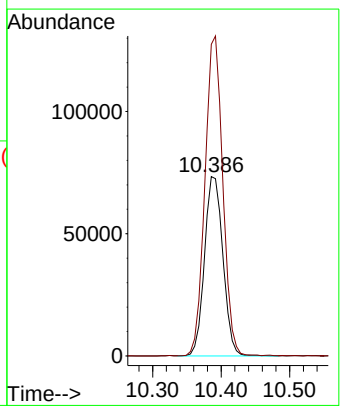


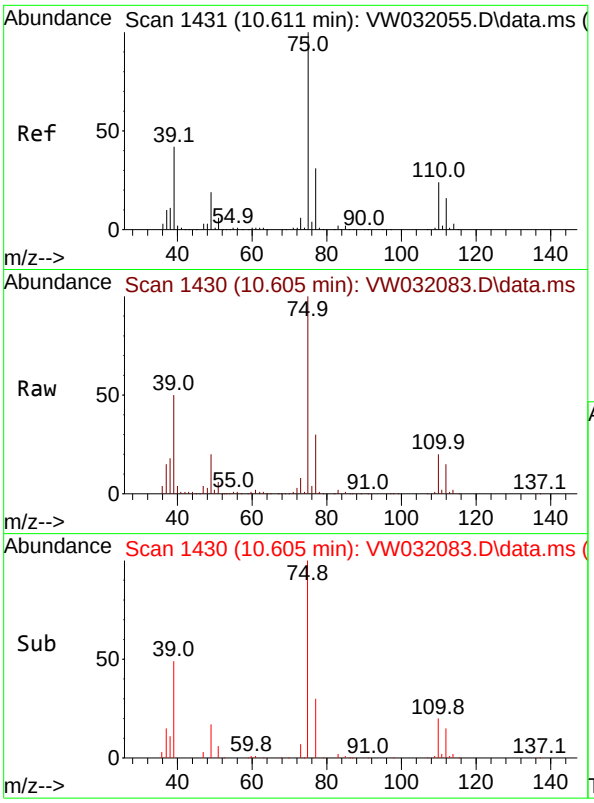


#52
Toluene
Concen: 20.277 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 92 Resp: 137378

Ion	Ratio	Lower	Upper
92	100		
91	172.5	136.3	204.5

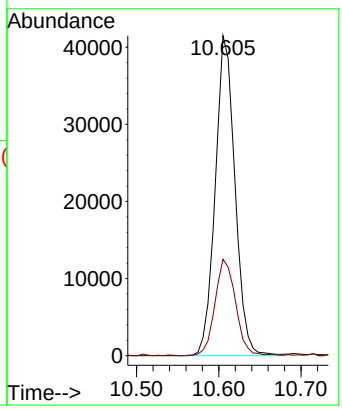




#53
t-1,3-Dichloropropene
Concen: 19.147 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 6932

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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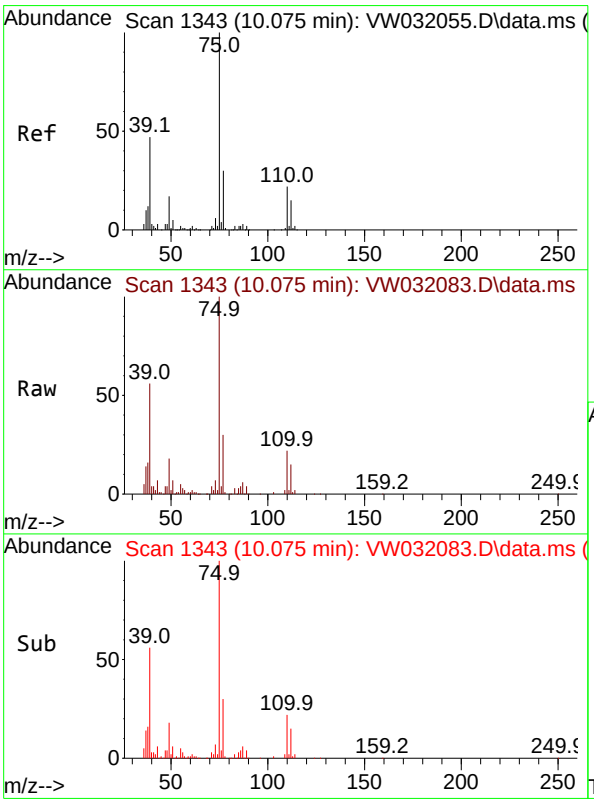
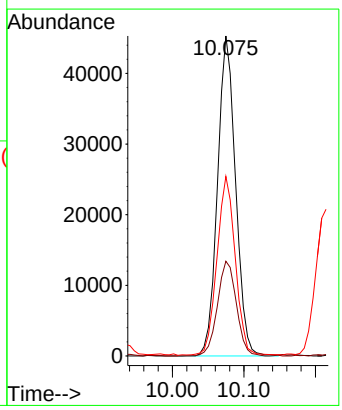
Supervised By :Mahesh Dadoda 08/19/2025

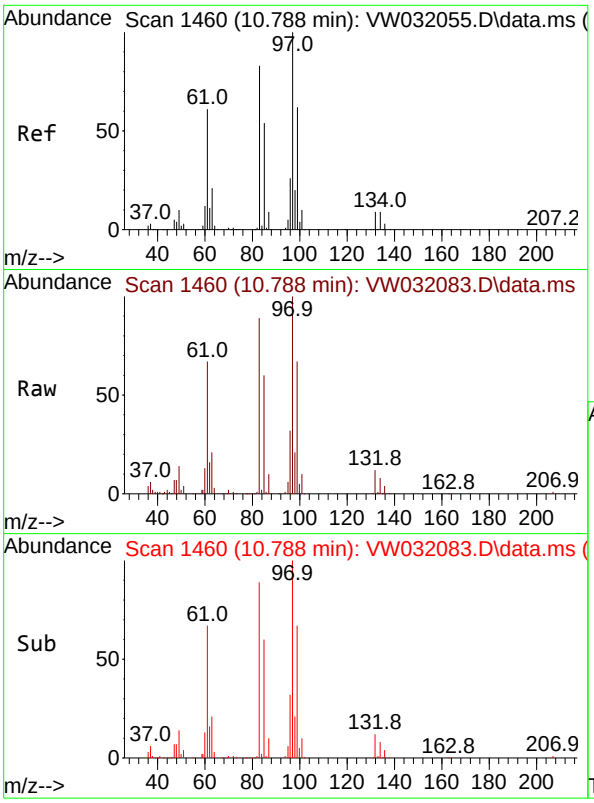


#54
cis-1,3-Dichloropropene
Concen: 19.350 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 79480

Ion	Ratio	Lower	Upper
75	100		
77	29.5	24.0	36.0
39	55.9	37.8	56.8

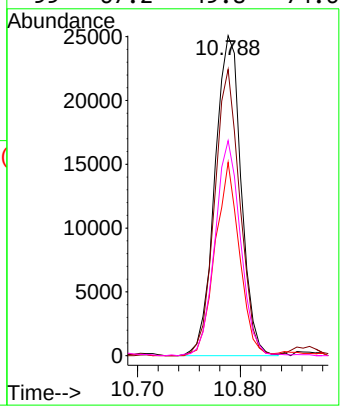




#55
1,1,2-Trichloroethane
Concen: 20.001 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 97 Resp: 4457

Ion	Ratio	Lower	Upper
97	100		
83	89.4	66.4	99.6
85	60.4	43.1	64.7
99	67.2	49.8	74.6



Instrument :
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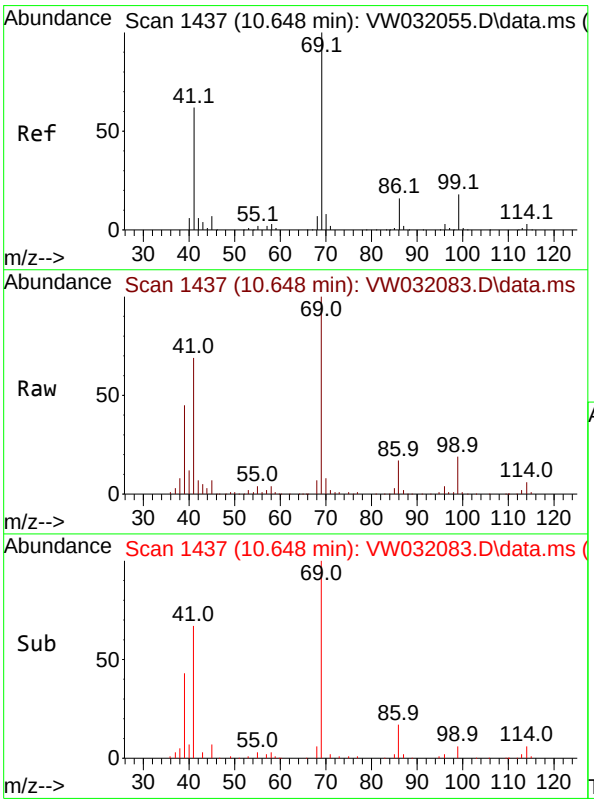
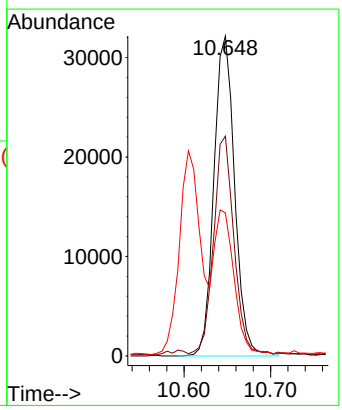
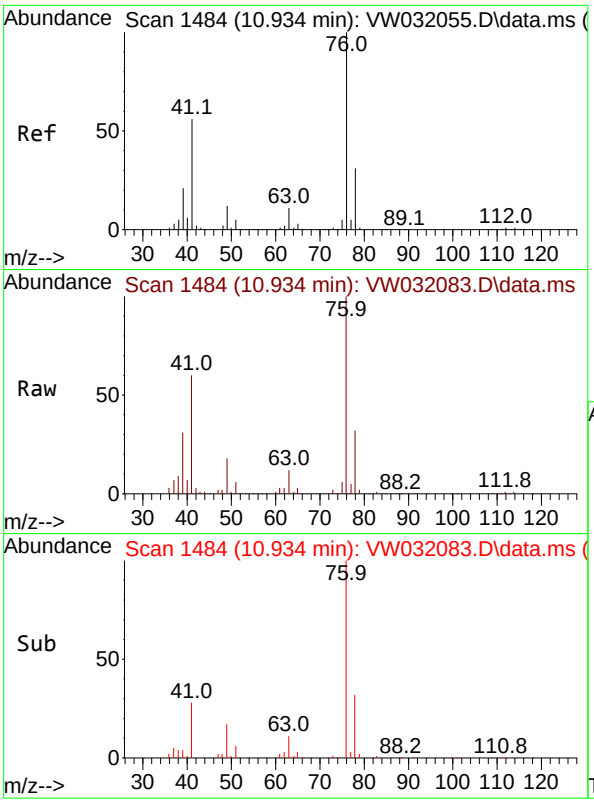


#56
Ethyl methacrylate
Concen: 17.973 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 69 Resp: 53600

Ion	Ratio	Lower	Upper
69	100		
41	66.3	51.2	76.8
39	41.7	25.4	38.0#

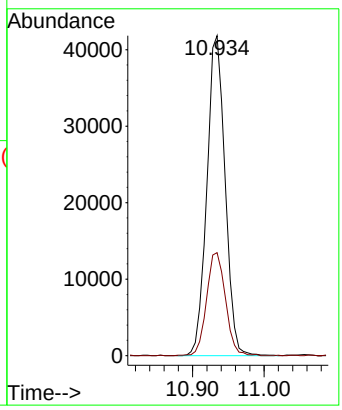




#57
1,3-Dichloropropane
Concen: 19.038 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 76 Resp: 7395

Ion	Ratio	Lower	Upper
76	100		
78	33.5	25.8	38.6



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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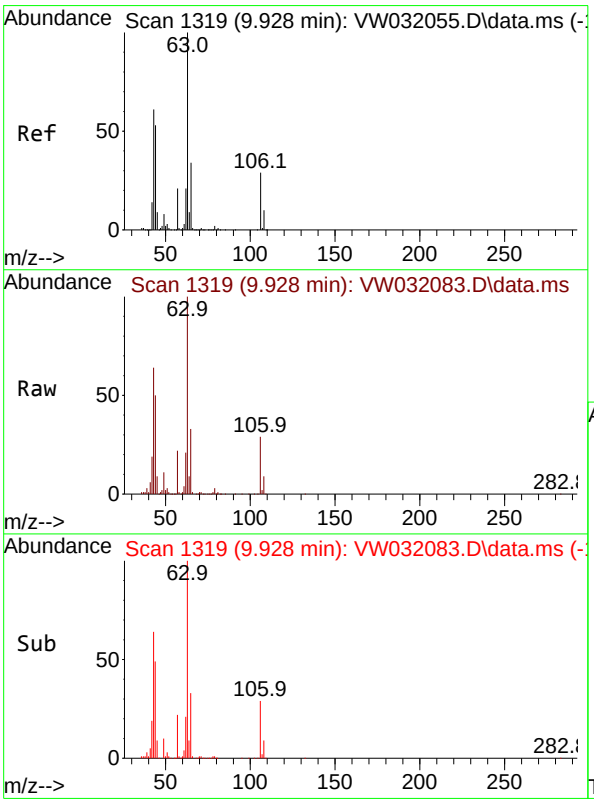
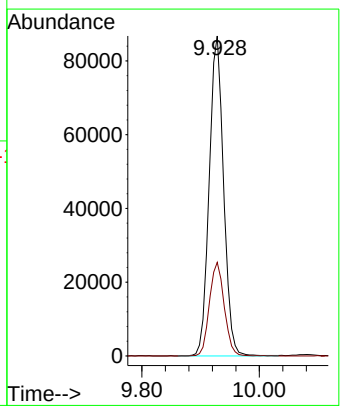
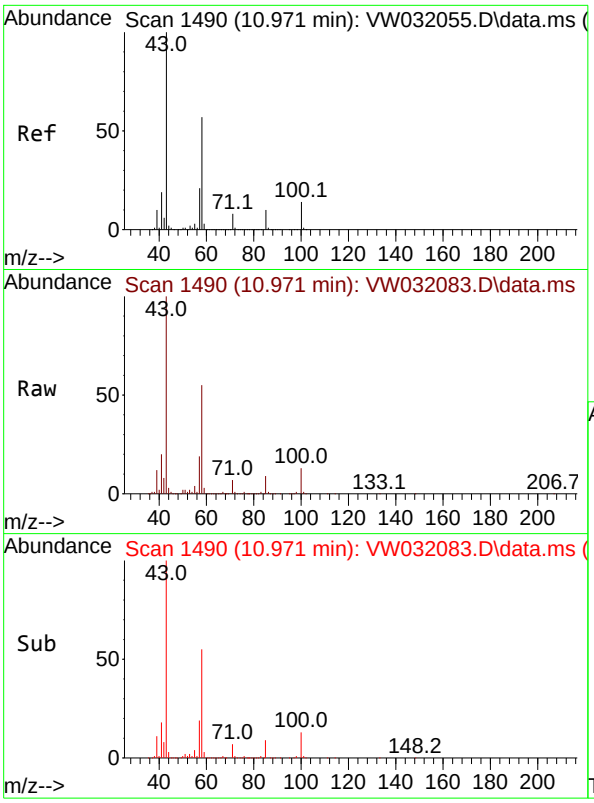


#58
2-Chloroethyl Vinyl ether
Concen: 89.504 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 63 Resp: 147647

Ion	Ratio	Lower	Upper
63	100		
106	30.0	23.5	35.3





#59
2-Hexanone
Concen: 97.375 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 14272

Ion	Ratio	Lower	Upper
43	100		
58	53.4	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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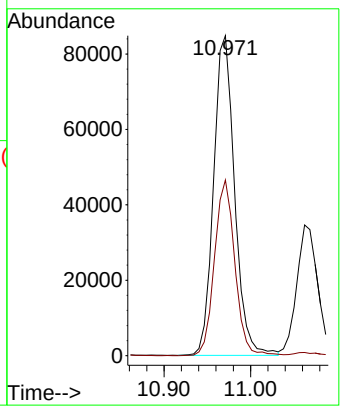
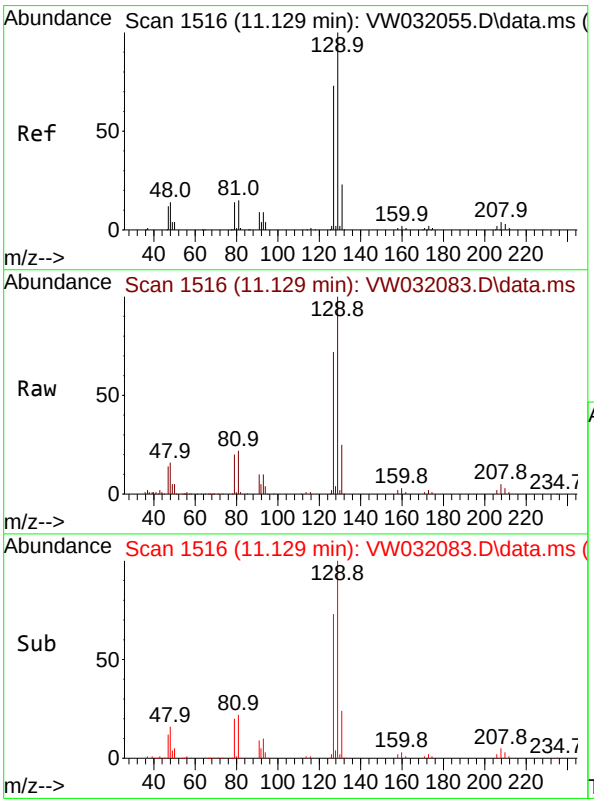
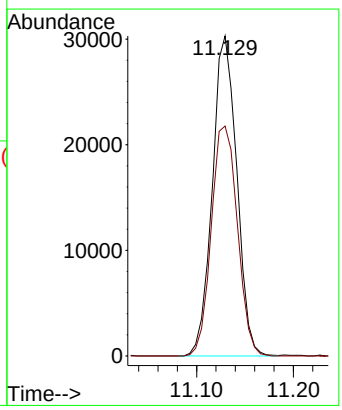


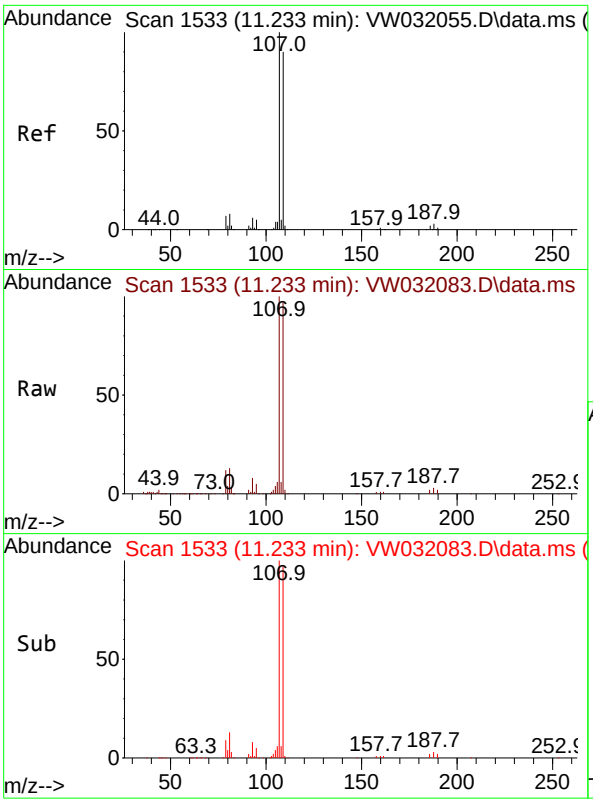


#60
Dibromochloromethane
Concen: 20.855 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:129 Resp: 53091

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9





#61
1,2-Dibromoethane
Concen: 19.998 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:107 Resp: 4331

Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.2	111.4

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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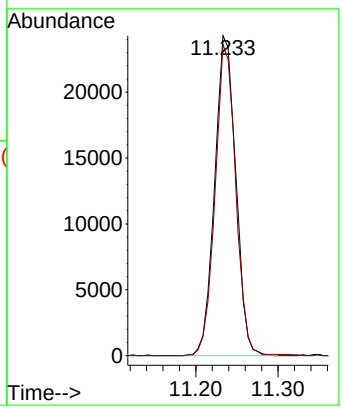
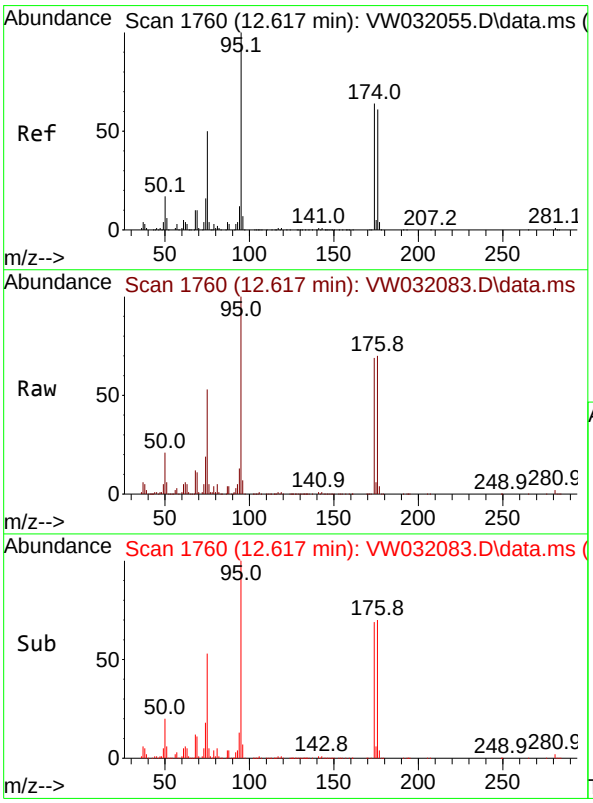
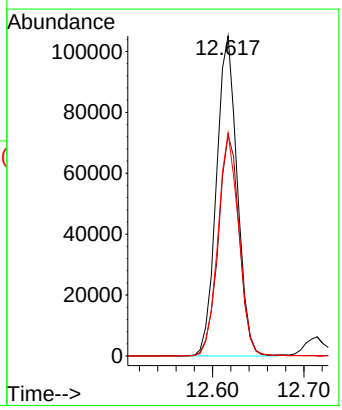


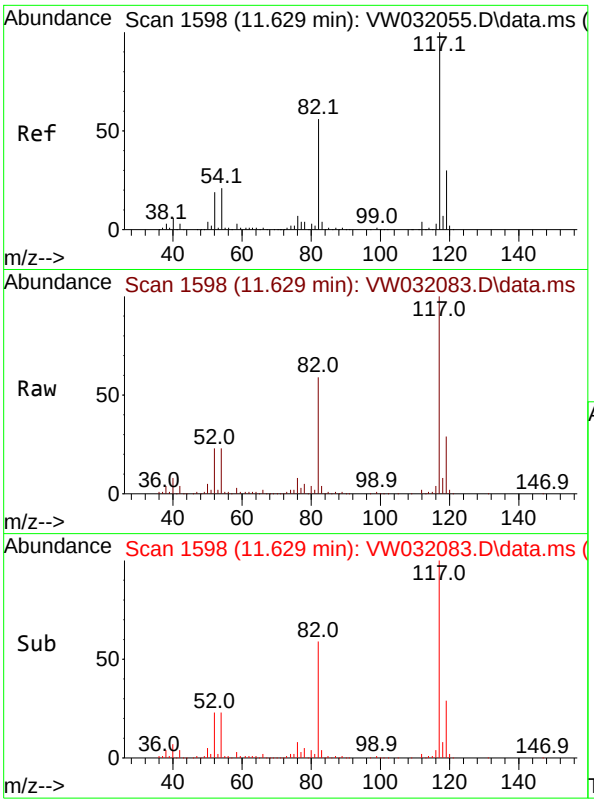


#62
4-Bromofluorobenzene
Concen: 49.621 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 95 Resp: 166018

Ion	Ratio	Lower	Upper
95	100		
174	69.7	0.0	129.0
176	69.9	0.0	124.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:117 Resp: 34308

Ion	Ratio	Lower	Upper
117	100		
82	58.6	45.0	67.4
119	29.2	24.2	36.4

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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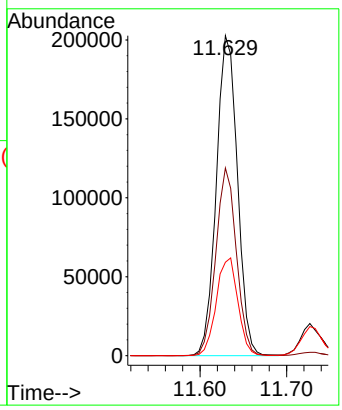
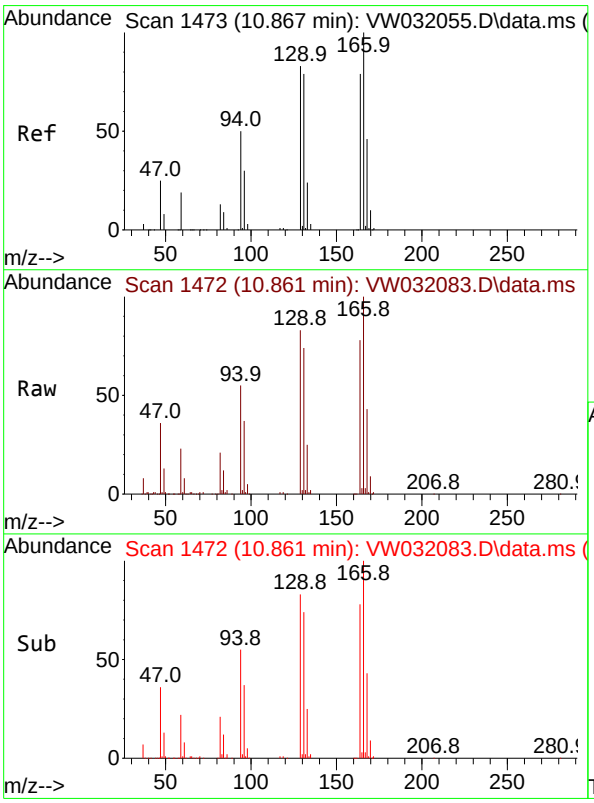
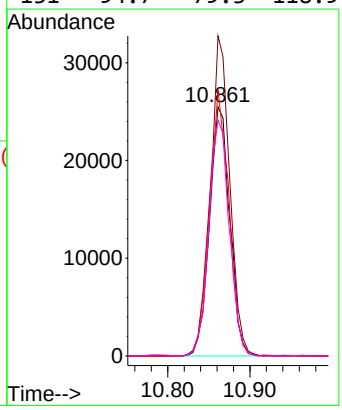


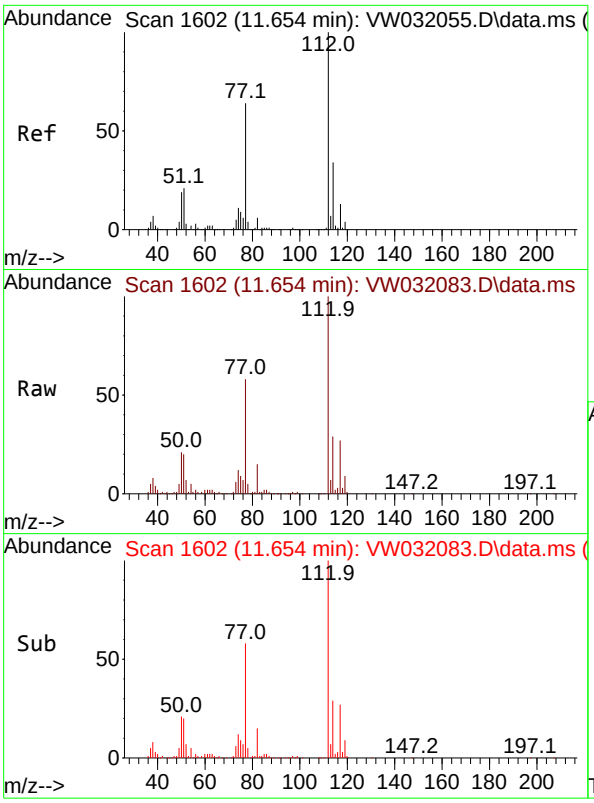


#64
Tetrachloroethene
Concen: 22.056 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:164 Resp: 43709

Ion	Ratio	Lower	Upper
164	100		
166	128.5	100.9	151.3
129	106.7	83.6	125.4
131	94.7	79.3	118.9

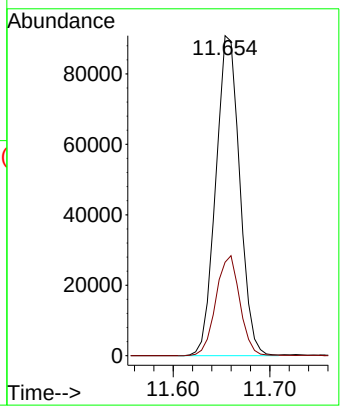




#65
Chlorobenzene
Concen: 20.880 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:112 Resp: 15592

Ion	Ratio	Lower	Upper
112	100		
114	29.2	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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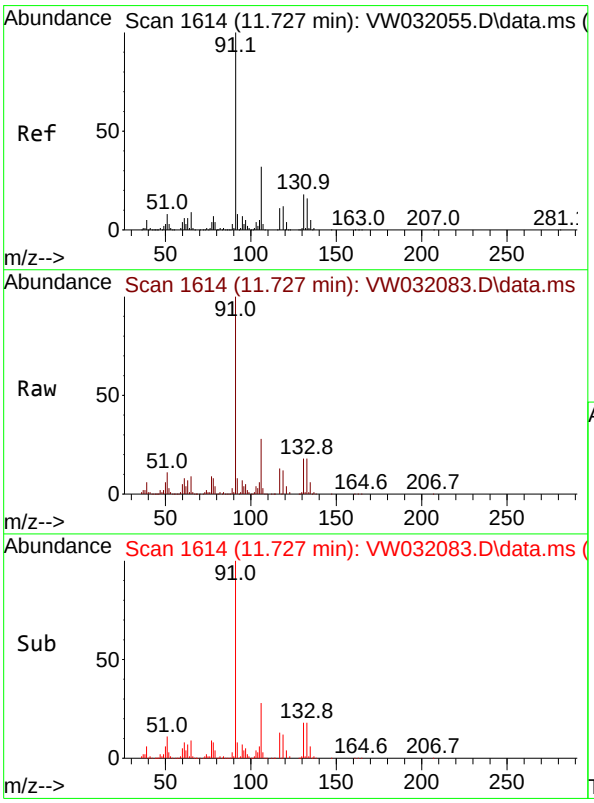
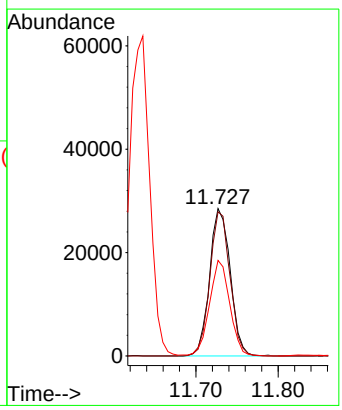
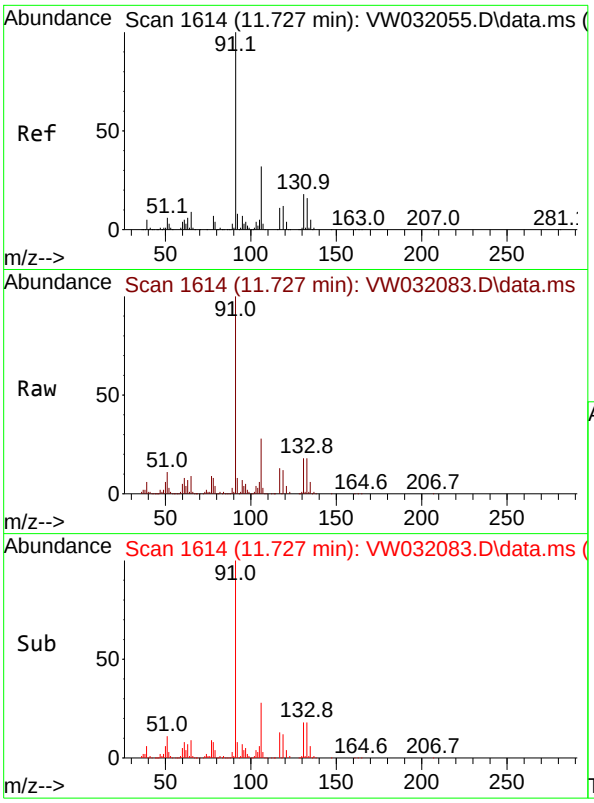


#66
1,1,1,2-Tetrachloroethane
Concen: 21.380 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:131 Resp: 49815

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	142.0
119	63.5	34.5	103.5





#67
Ethyl Benzene
Concen: 20.251 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 25616

Ion	Ratio	Lower	Upper
91	100		
106	27.6	25.4	38.0

Instrument :
MSVOA_W
ClientSampleId :
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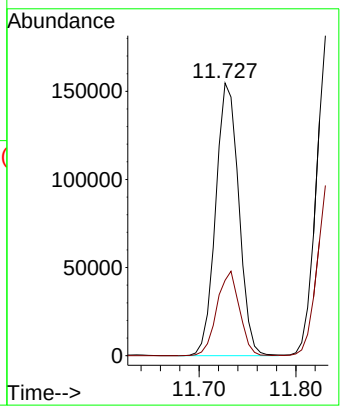
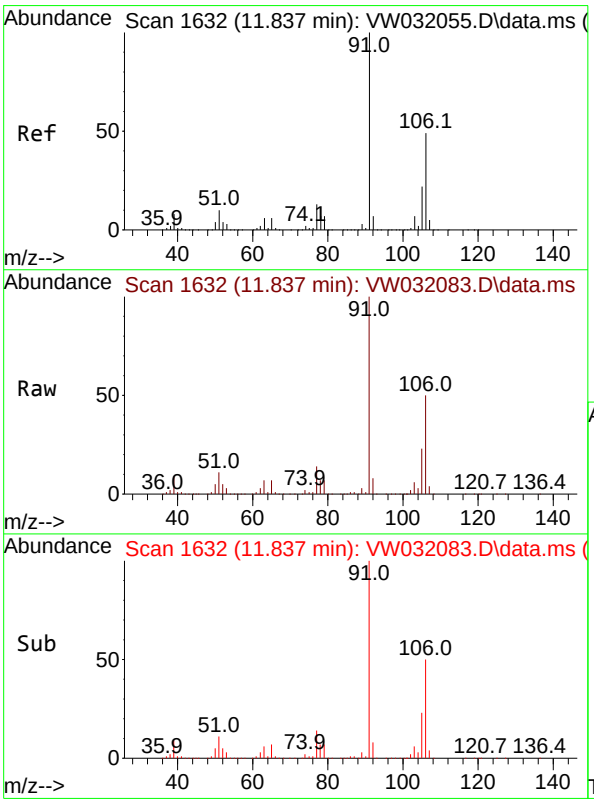
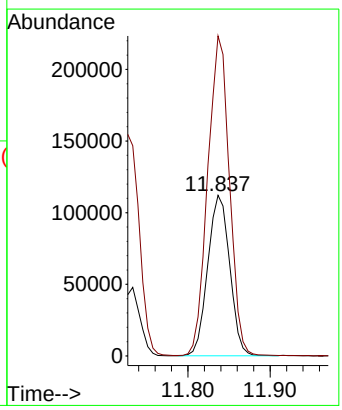


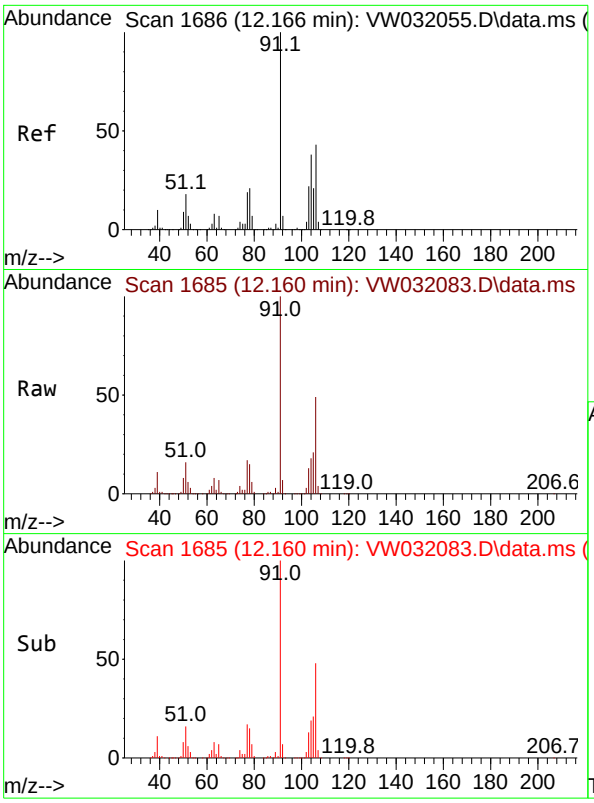


#68
m/p-Xylenes
Concen: 42.582 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:106 Resp: 207846

Ion	Ratio	Lower	Upper
106	100		
91	197.5	162.2	243.2





#69
o-Xylene
Concen: 21.160 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:106 Resp: 9546

Ion	Ratio	Lower	Upper
106	100		
91	211.0	110.8	332.3

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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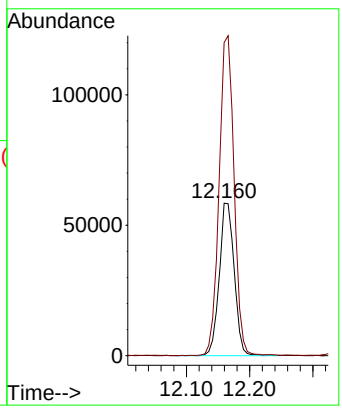
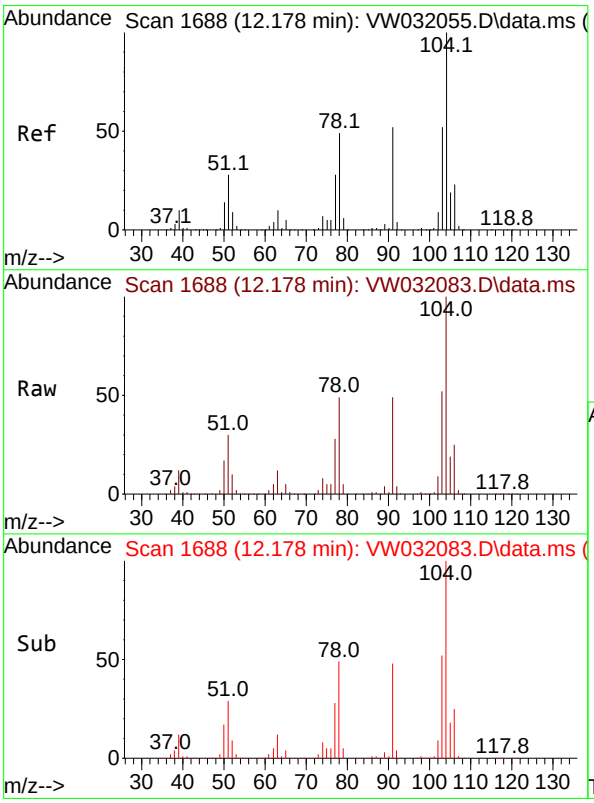
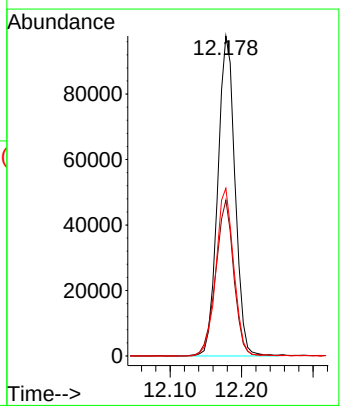


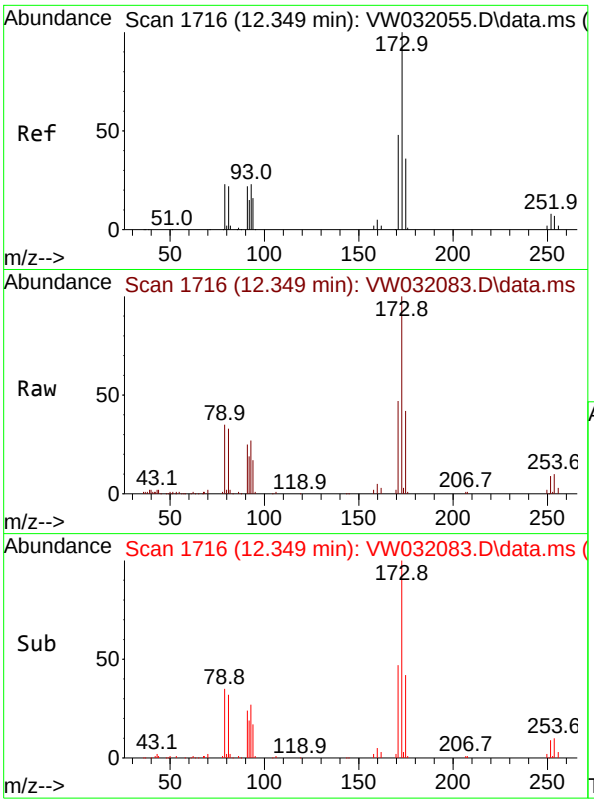


#70
Styrene
Concen: 20.463 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:104 Resp: 163976

Ion	Ratio	Lower	Upper
104	100		
78	51.1	41.2	61.8
103	53.7	43.8	65.8

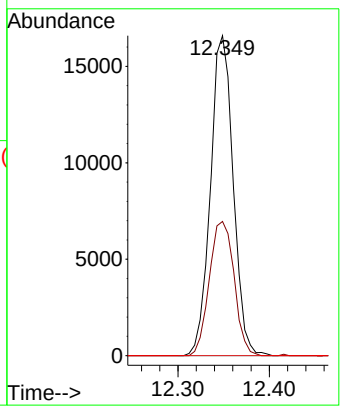




#71
Bromoform
Concen: 21.543 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:173 Resp: 2871

Ion	Ratio	Lower	Upper
173	100		
175	45.7	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
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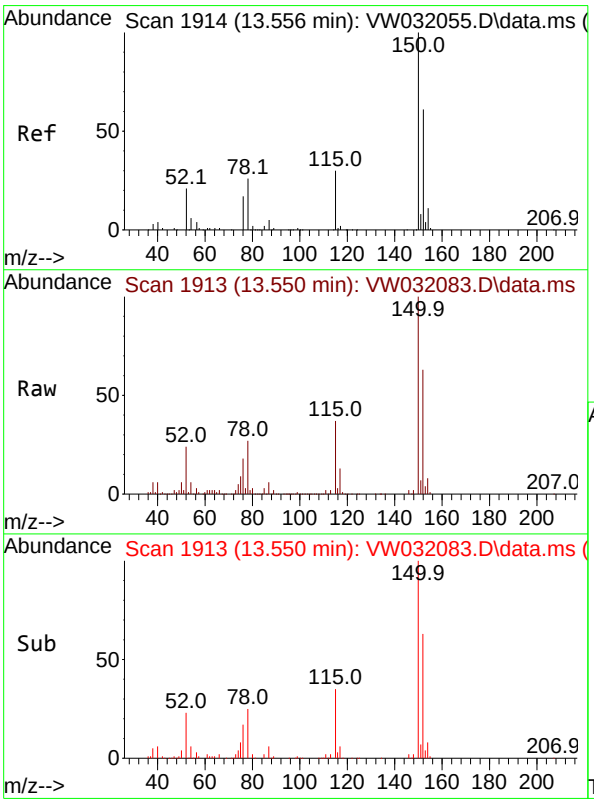
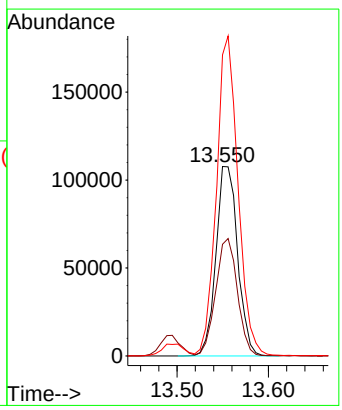
Supervised By :Mahesh Dadoda 08/19/2025

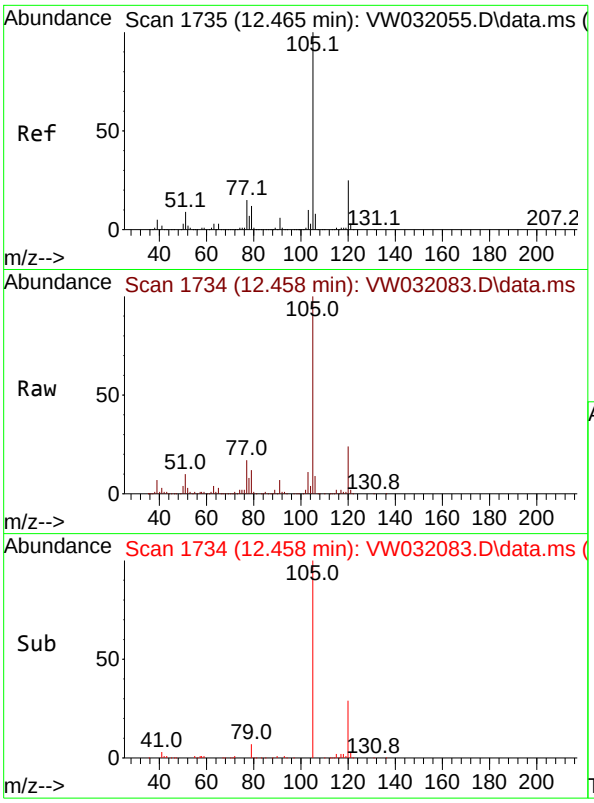


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:152 Resp: 177605

Ion	Ratio	Lower	Upper
152	100		
115	62.3	32.6	97.8
150	167.8	0.0	359.4





#73
Isopropylbenzene
Concen: 19.223 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:105 Resp: 23859

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.8	38.4

Instrument :
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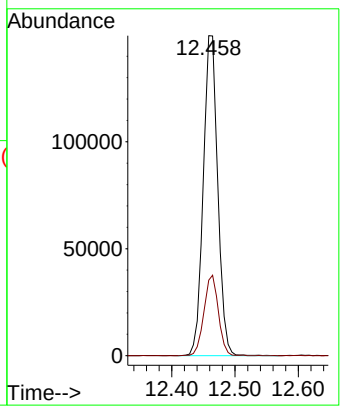
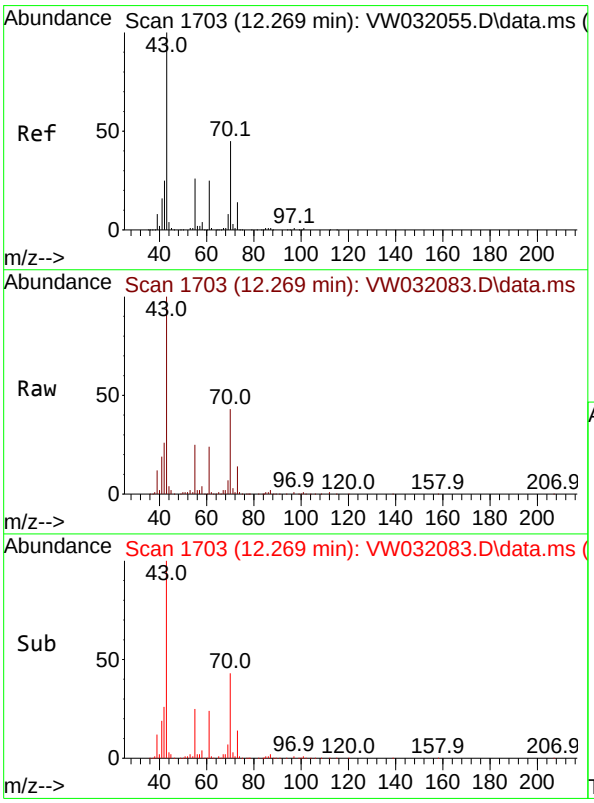
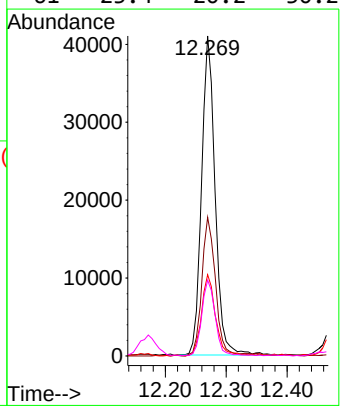


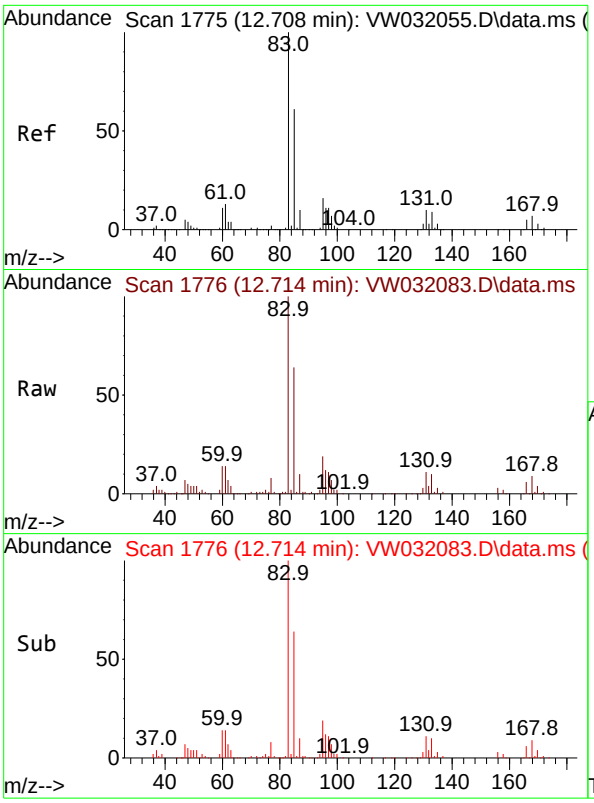


#74
N-amyl acetate
Concen: 17.822 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 63466

Ion	Ratio	Lower	Upper
43	100		
70	43.4	37.0	55.4
55	26.4	21.1	31.7
61	23.4	20.2	30.2

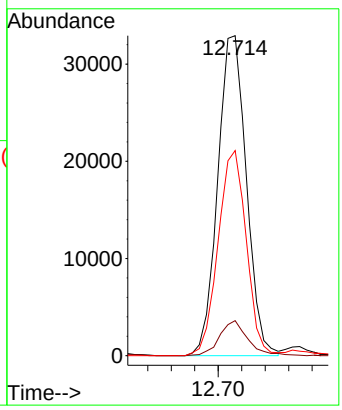




#75
1,1,2,2-Tetrachloroethane
Concen: 18.959 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 83 Resp: 5587

Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.1	15.4
85	63.0	32.2	96.6



Instrument :
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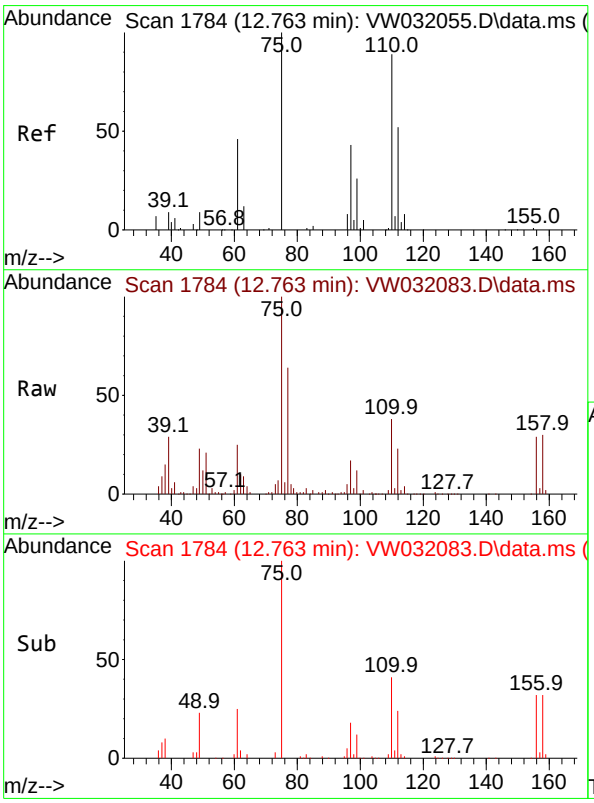
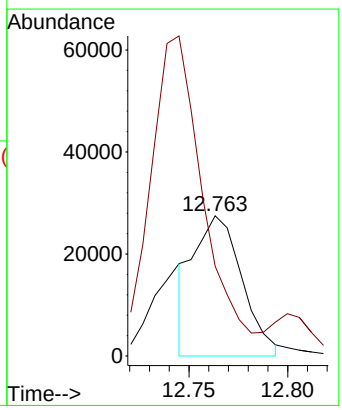
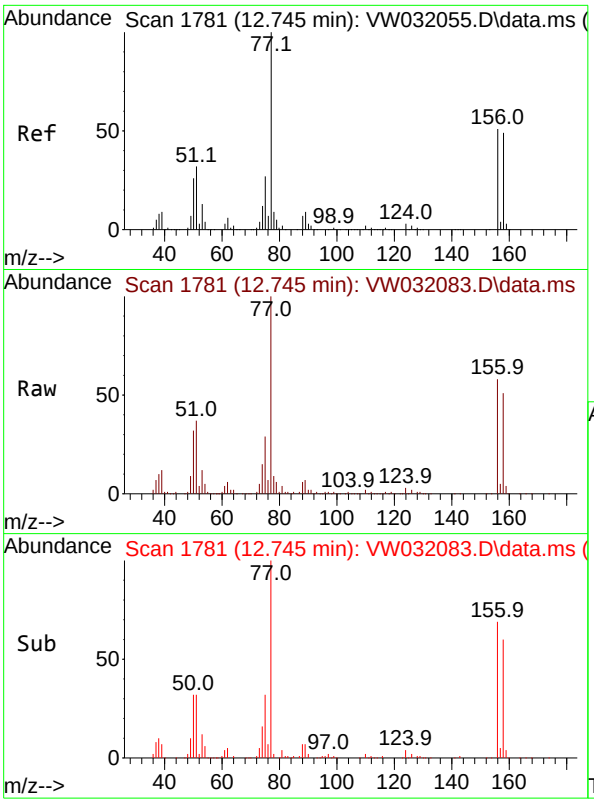


#76
1,2,3-Trichloropropane
Concen: 19.315 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 46559

Ion	Ratio	Lower	Upper
75	100		
77	251.9	123.5	370.5





#77
Bromobenzene
Concen: 20.310 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:156 Resp: 6020

Ion	Ratio	Lower	Upper
156	100		
77	194.8	108.7	326.3
158	93.1	48.3	144.9

Instrument :
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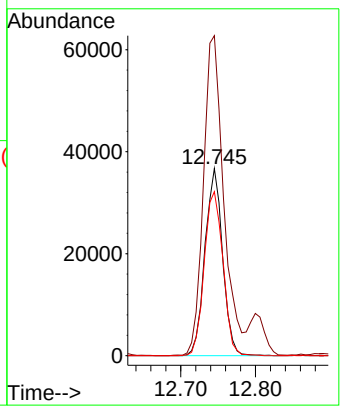
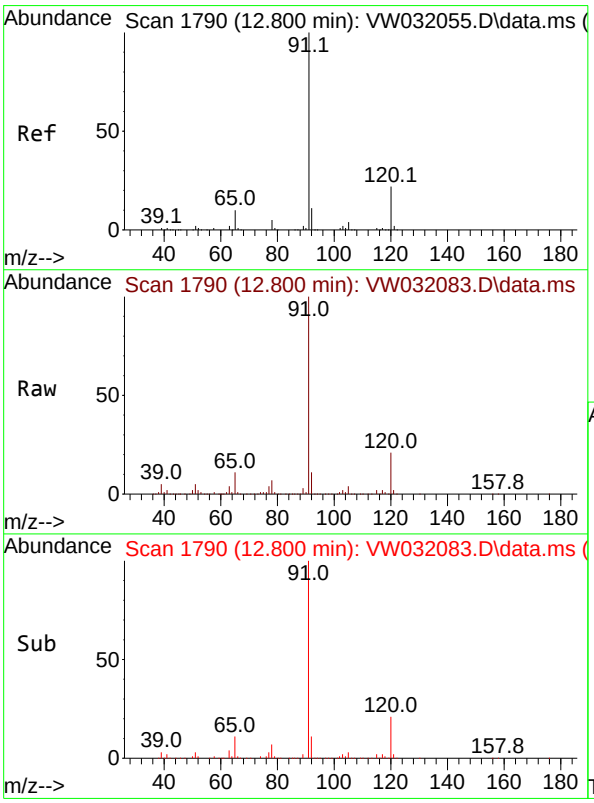
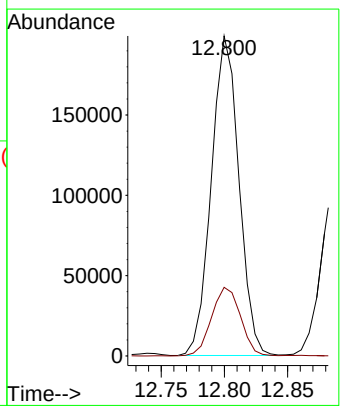


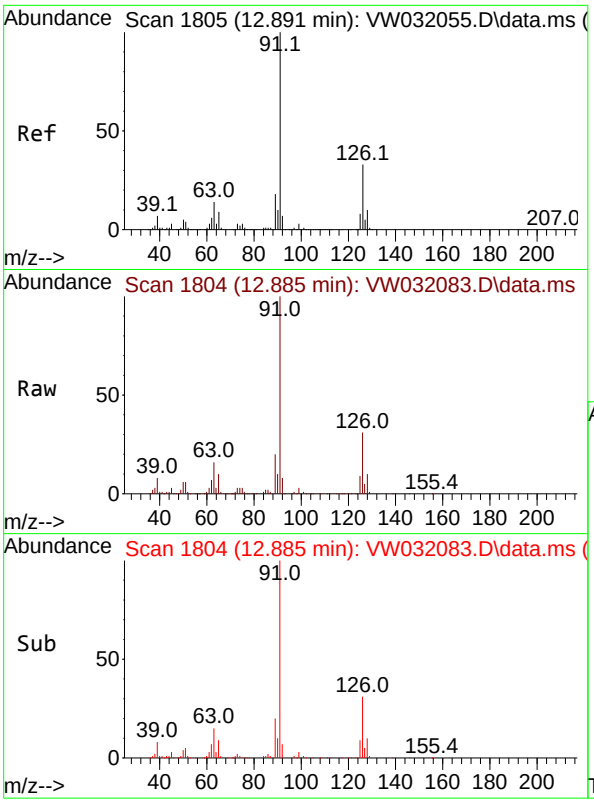


#78
n-propylbenzene
Concen: 19.766 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 302042

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3





#79
2-Chlorotoluene
Concen: 18.805 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 17735

Ion	Ratio	Lower	Upper
91	100		
126	32.7	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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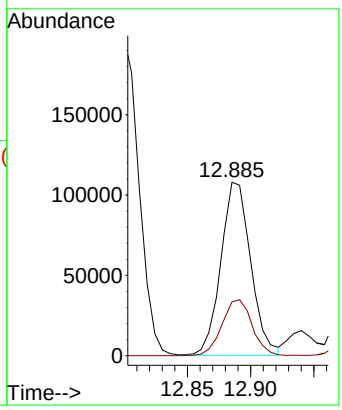
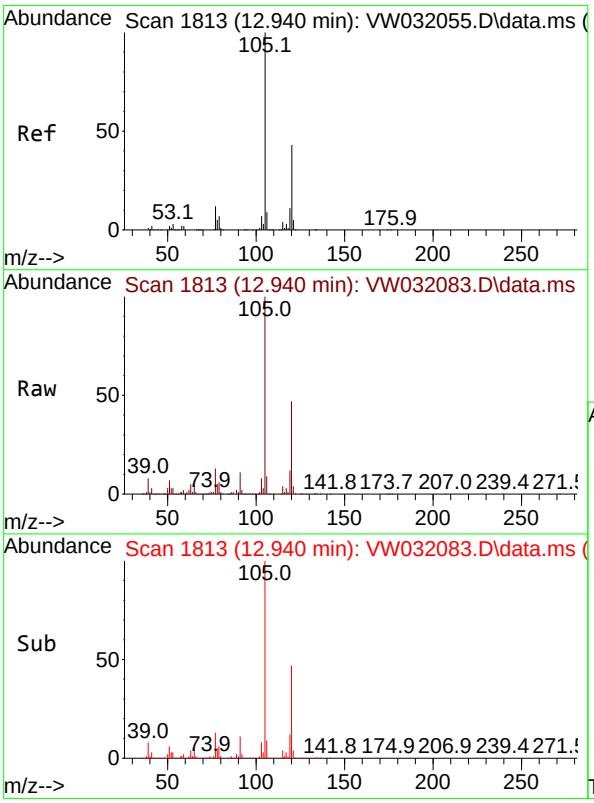
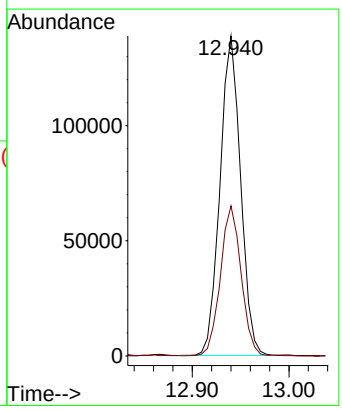


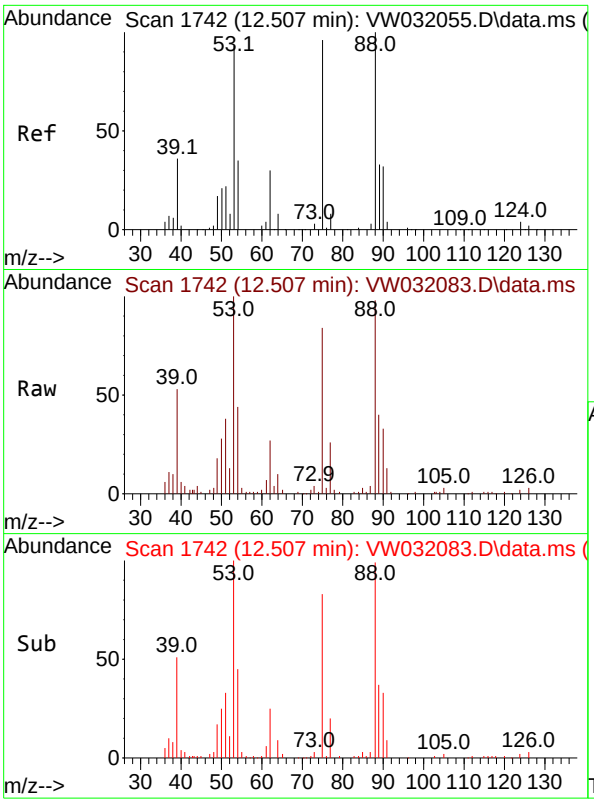


#80
1,3,5-Trimethylbenzene
Concen: 19.461 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:105 Resp: 205070

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 15.953 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 1485

Ion	Ratio	Lower	Upper
75	100		
53	116.8	81.0	121.6
89	49.6	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

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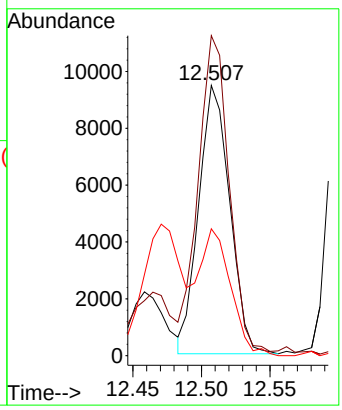
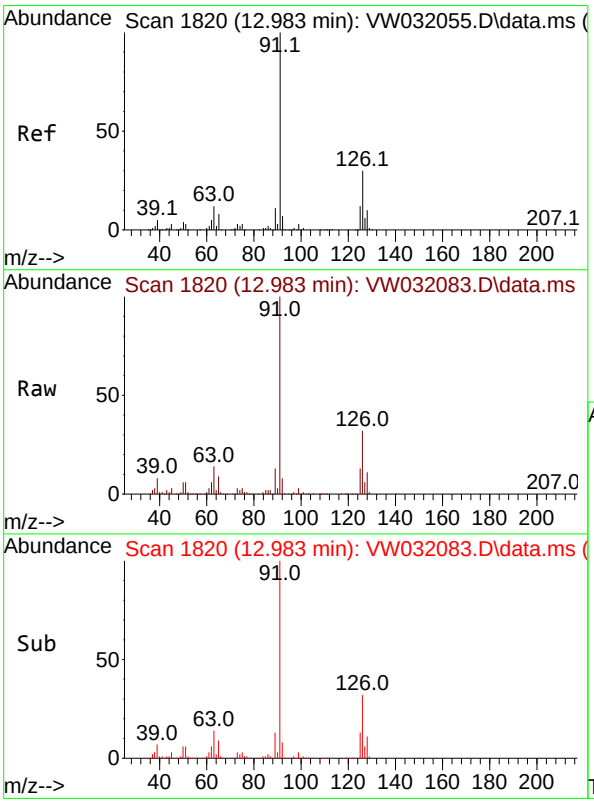
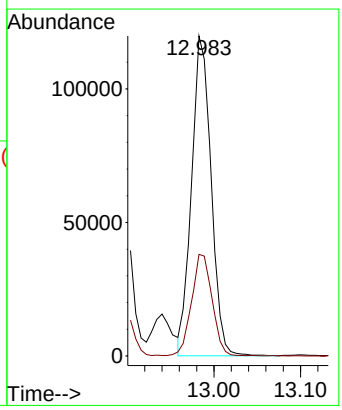


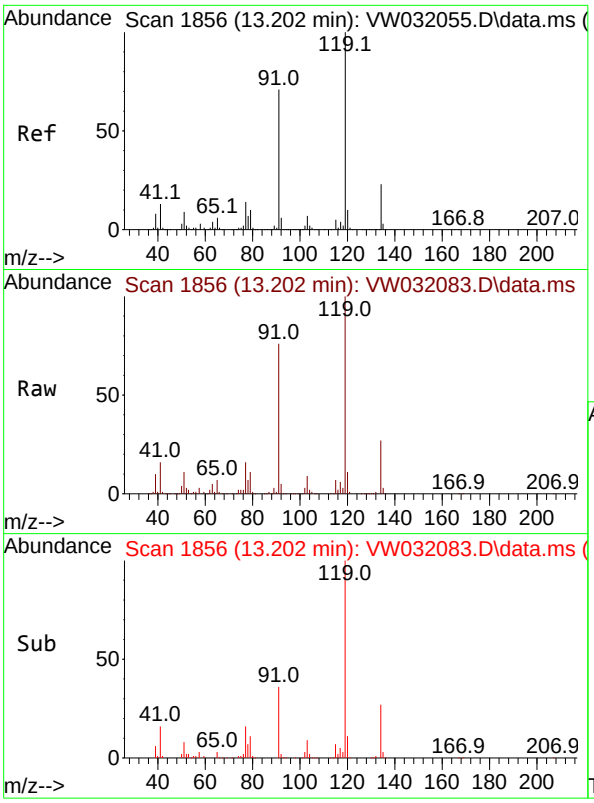


#82
4-Chlorotoluene
Concen: 18.722 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 187599

Ion	Ratio	Lower	Upper
91	100		
126	33.4	15.5	46.5

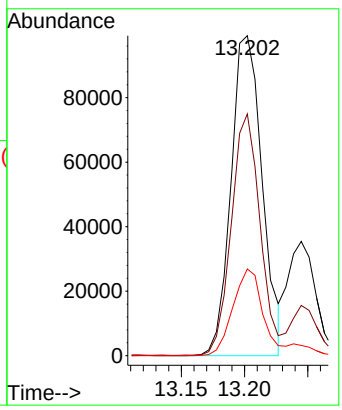




#83
tert-Butylbenzene
Concen: 19.459 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:119 Resp: 17017

Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.3	105.9
134	26.0	12.1	36.3



Instrument :
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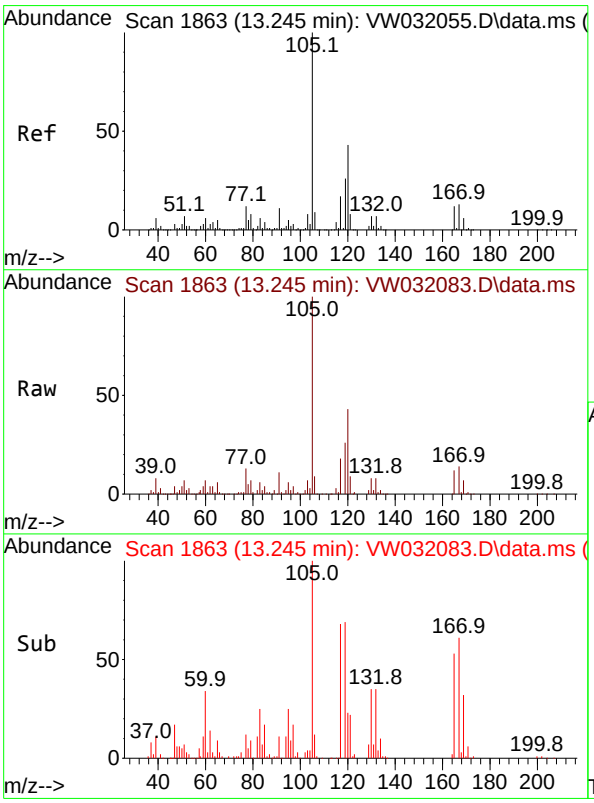
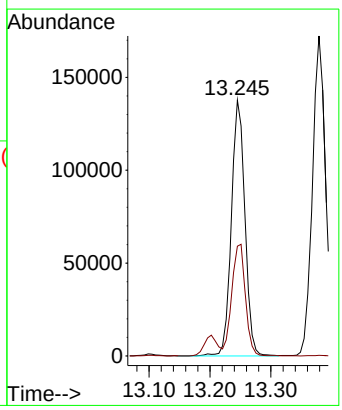
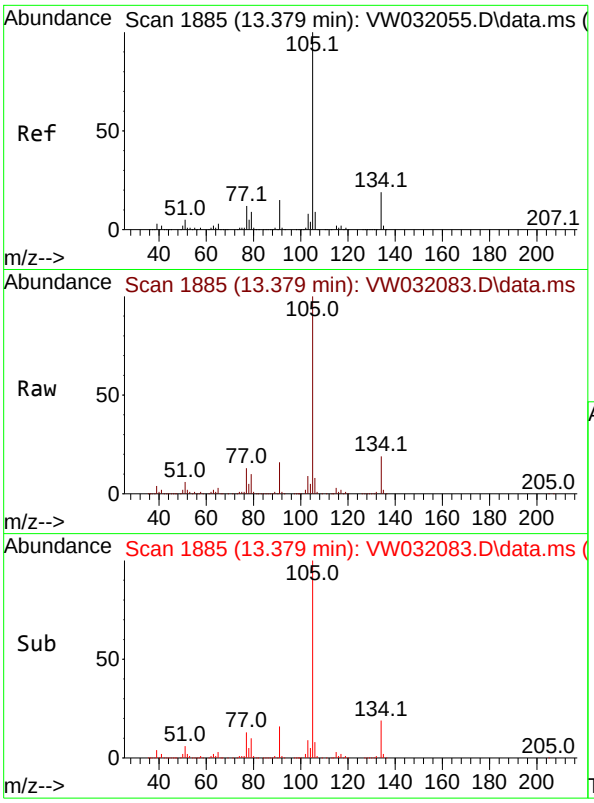


#84
1,2,4-Trimethylbenzene
Concen: 19.825 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:105 Resp: 212657

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.6	64.8





#85
sec-Butylbenzene
Concen: 19.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:105 Resp: 25845

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.9	29.7

Instrument :
MSVOA_W
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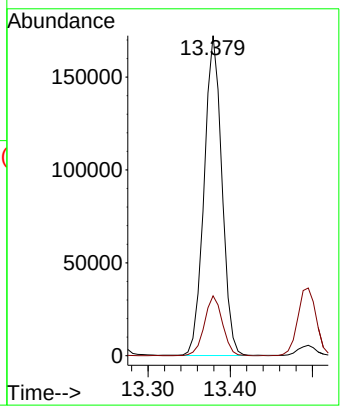
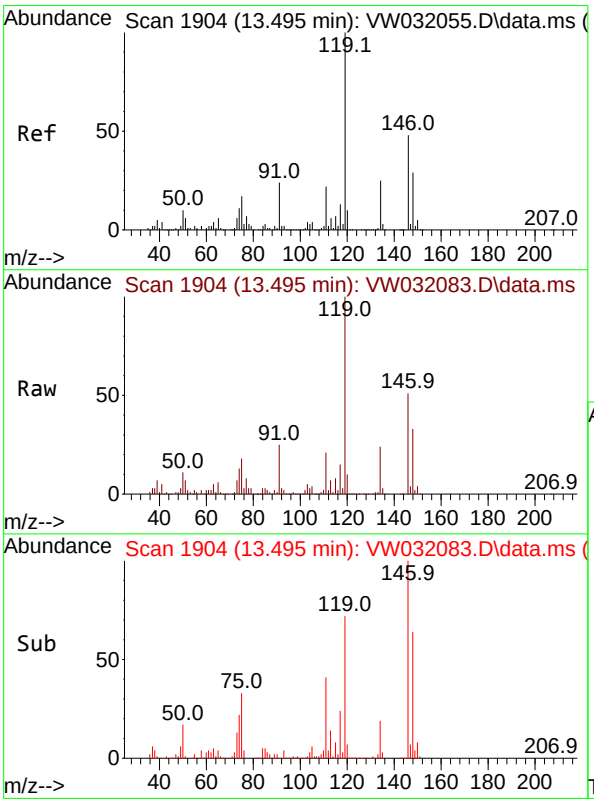
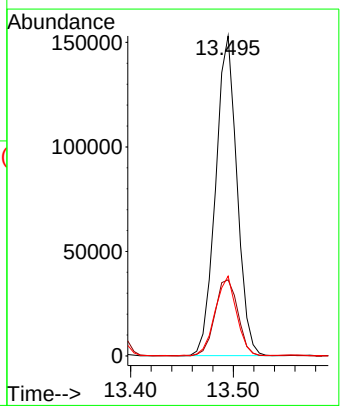


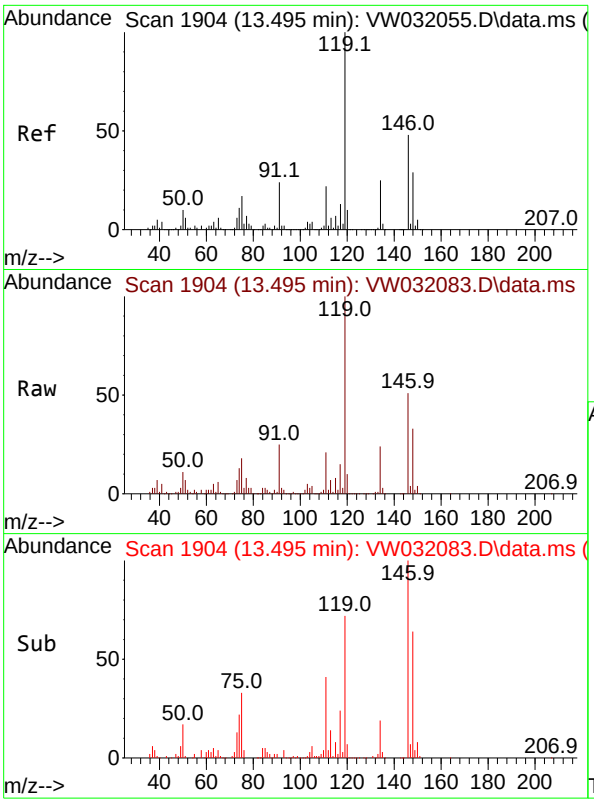


#86
p-Isopropyltoluene
Concen: 19.978 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:119 Resp: 220215

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.4	37.0
91	25.0	12.1	36.3

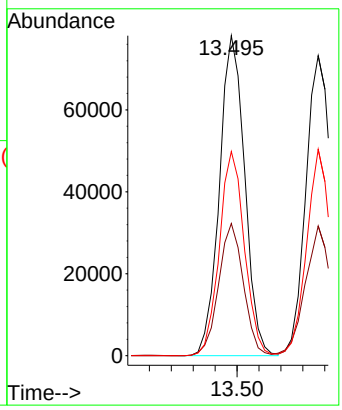




#87
1,3-Dichlorobenzene
Concen: 21.202 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:146 Resp: 12506

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.2	63.6
148	63.3	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
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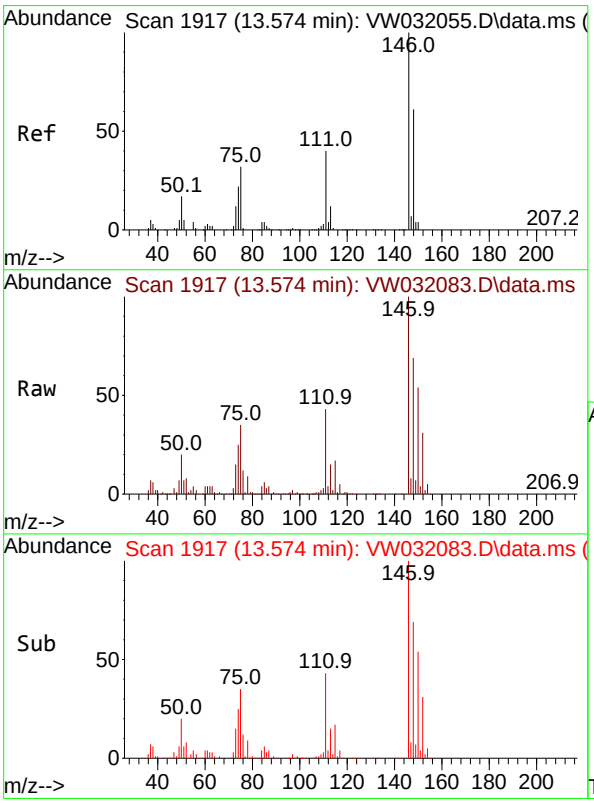
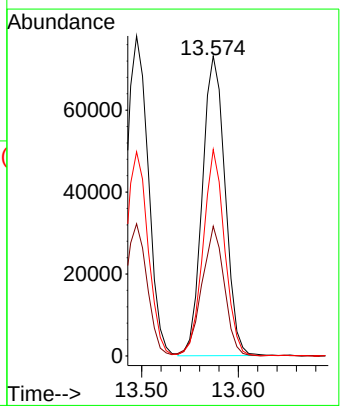
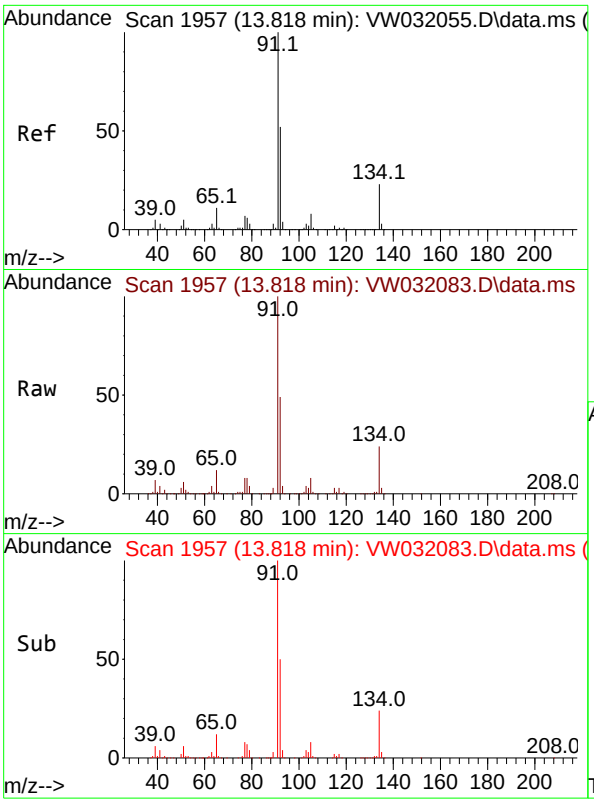


#88
1,4-Dichlorobenzene
Concen: 20.094 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:146 Resp: 119783

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.6
148	65.0	32.0	96.2

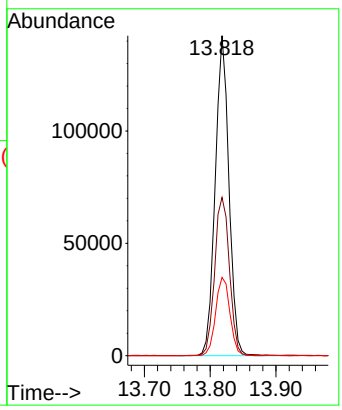




#89
n-Butylbenzene
Concen: 19.344 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 20714

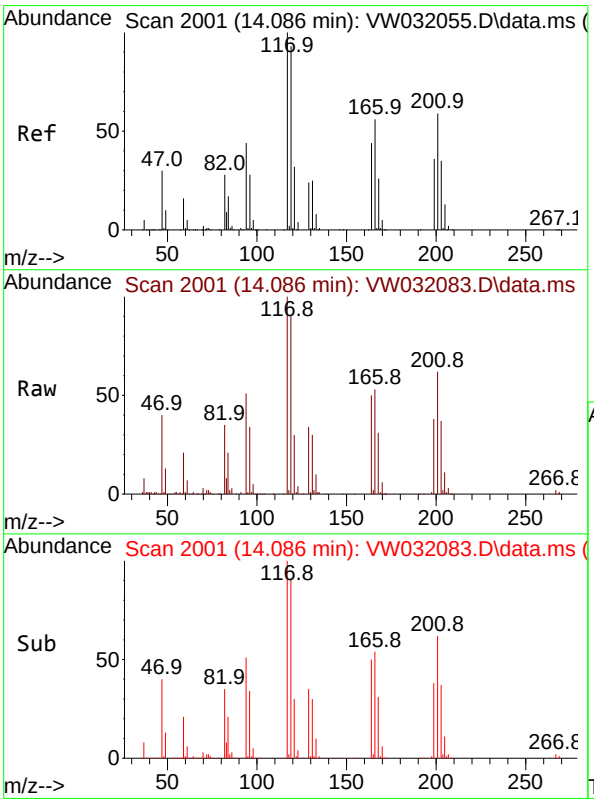
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.7	80.1
134	25.5	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
APPROVED

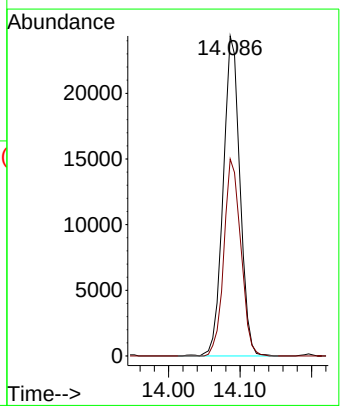
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

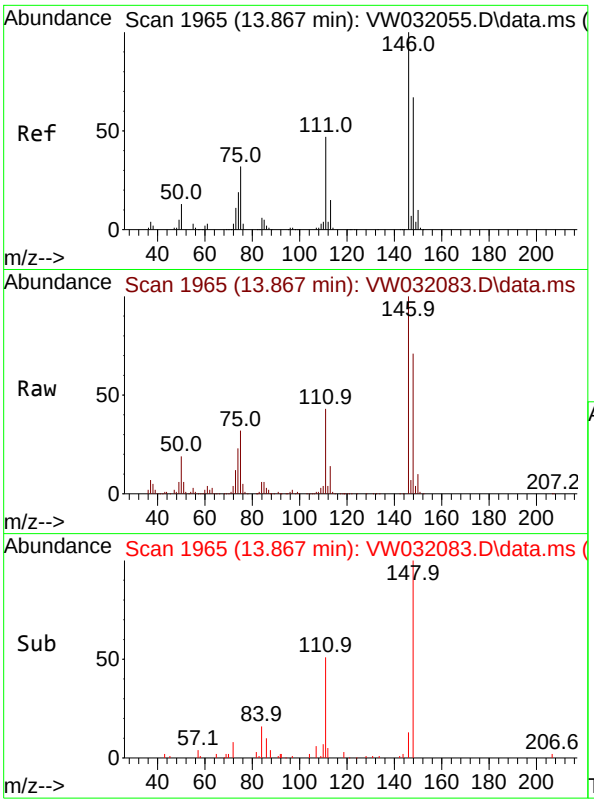


#90
Hexachloroethane
Concen: 19.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:117 Resp: 39591

Ion	Ratio	Lower	Upper
117	100		
201	62.3	30.9	92.5

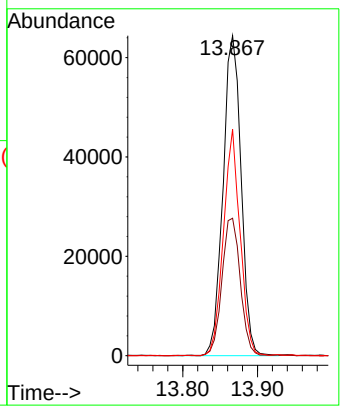




#91
1,2-Dichlorobenzene
Concen: 20.266 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:146 Resp: 10829

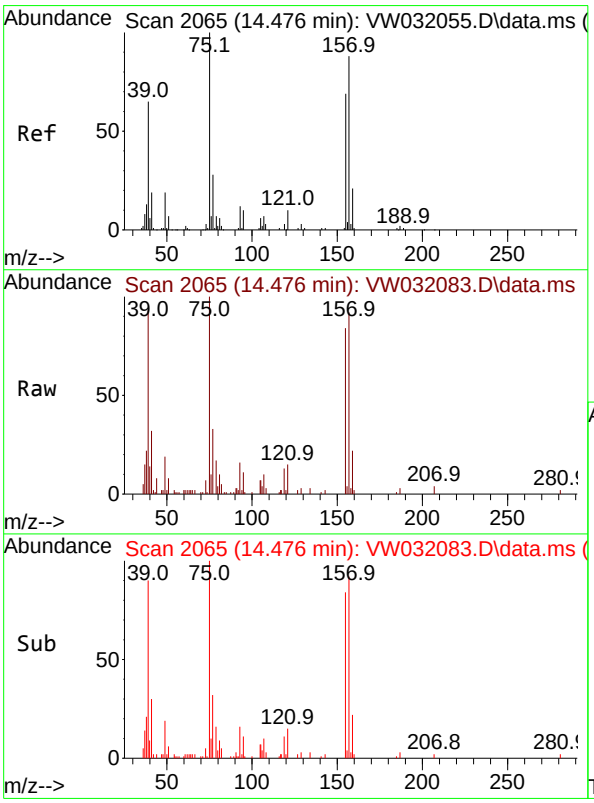
Ion	Ratio	Lower	Upper
146	100		
111	43.3	23.1	69.3
148	65.1	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
APPROVED

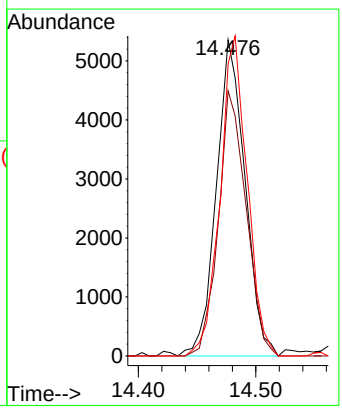
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

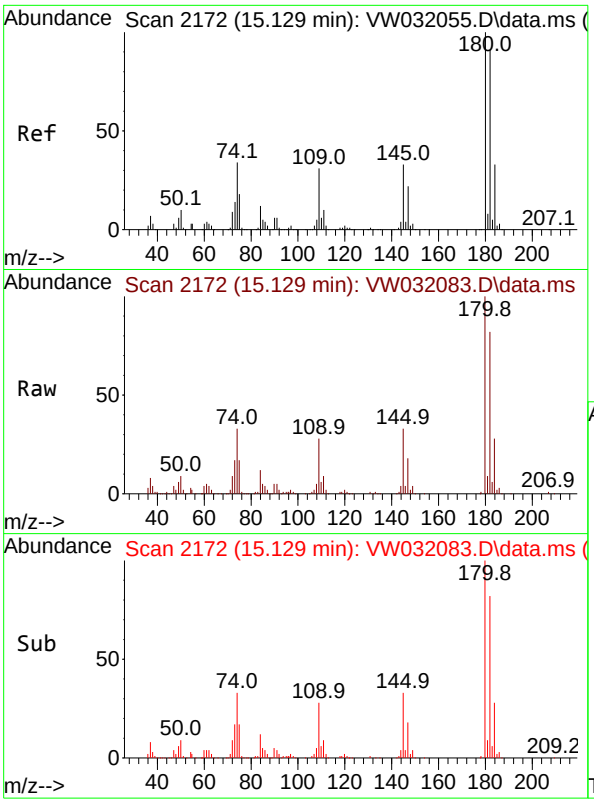


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.310 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 9069

Ion	Ratio	Lower	Upper
75	100		
155	81.2	35.2	105.6
157	95.9	47.5	142.6

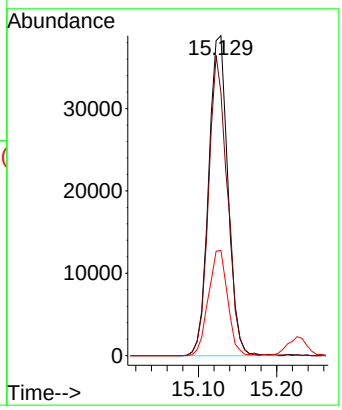




#93
1,2,4-Trichlorobenzene
Concen: 20.701 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:180 Resp: 6617

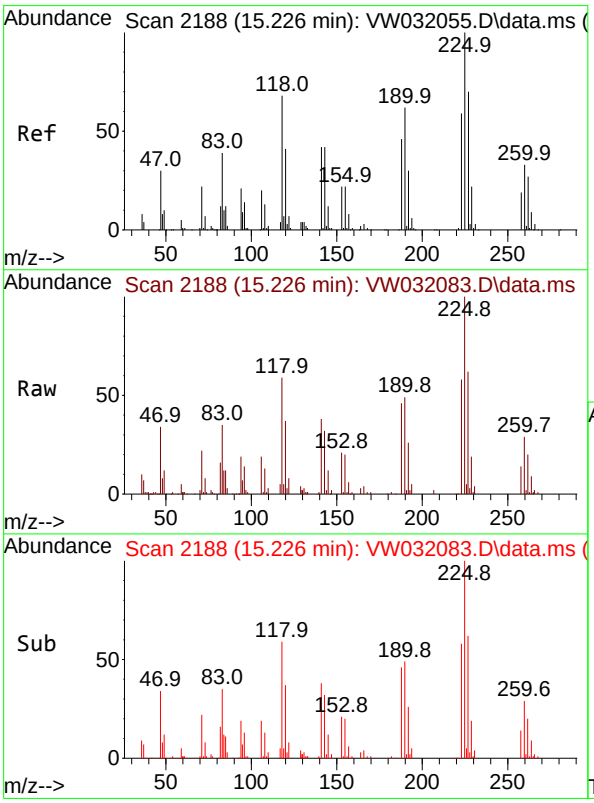
Ion	Ratio	Lower	Upper
180	100		
182	91.6	49.0	147.0
145	32.9	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
APPROVED

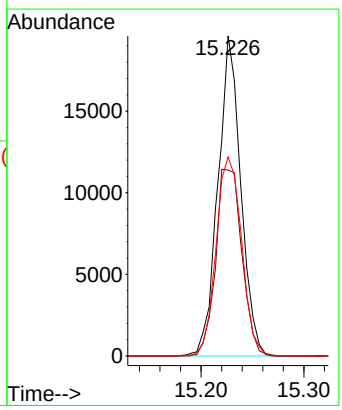
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

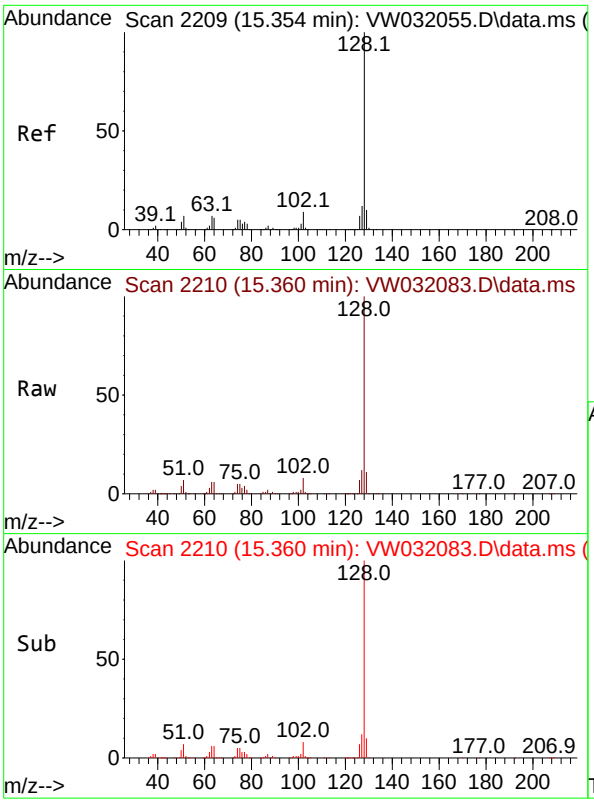


#94
Hexachlorobutadiene
Concen: 21.148 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:225 Resp: 30219

Ion	Ratio	Lower	Upper
225	100		
223	67.0	31.8	95.3
227	69.4	33.5	100.5

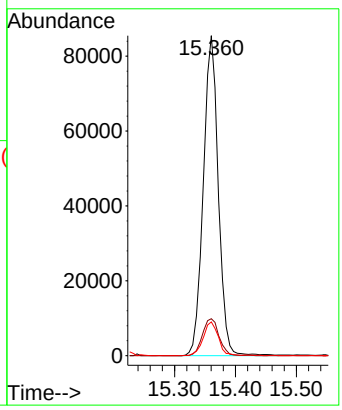




#95
Naphthalene
Concen: 18.719 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:128 Resp: 14661

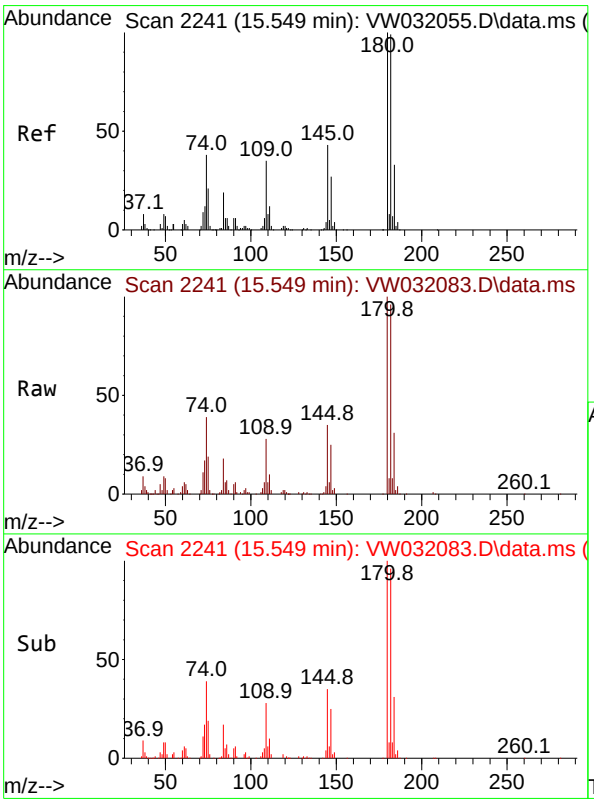
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.7	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Manual Integrations
APPROVED

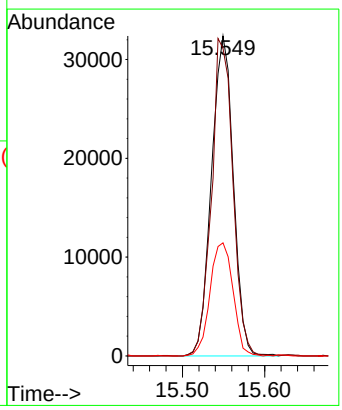
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.574 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:180 Resp: 59840

Ion	Ratio	Lower	Upper
180	100		
182	97.2	46.0	138.0
145	37.2	19.2	57.6



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Manual Integration Report

Sequence:	vw081125	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW032052.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:11:01 PM	SAM	8/12/2025 1:13:53 PM	Peak Integrated by Software
VSTDICC010	VW032053.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:59 PM	SAM	8/12/2025 1:13:55 PM	Peak Integrated by Software
VSTDICC020	VW032054.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:56 PM	SAM	8/12/2025 1:13:56 PM	Peak Integrated by Software
VSTDICCC050	VW032055.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:54 PM	SAM	8/12/2025 1:13:57 PM	Peak Integrated by Software
VSTDICC100	VW032056.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:53 PM	SAM	8/12/2025 1:13:59 PM	Peak Integrated by Software
VSTDICC150	VW032057.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:51 PM	SAM	8/12/2025 1:14:01 PM	Peak Integrated by Software
VSTDICV050	VW032059.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:49 PM	SAM	8/12/2025 1:14:02 PM	Peak Integrated by Software
VSTDCCC050	VW032078.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:44 PM	SAM	8/12/2025 1:14:07 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VW081425	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032080.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:18:51 AM	MMDadoda	8/19/2025 4:23:30 AM	Peak Integrated by Software
VSTDCCC050	VW032080.D	Methacrylonitrile	SAM	8/19/2025 4:18:51 AM	MMDadoda	8/19/2025 4:23:30 AM	Peak Integrated by Software
VW0814SBS01	VW032082.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:18:56 AM	MMDadoda	8/19/2025 4:23:33 AM	Peak Integrated by Software
VW0814SBSD01	VW032083.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:00 AM	MMDadoda	8/19/2025 4:23:35 AM	Peak Integrated by Software
Q2820-02	VW032085.D	Methylene Chloride	SAM	8/19/2025 4:19:05 AM	MMDadoda	8/19/2025 4:23:39 AM	Peak Integrated by Software
VSTDCCC050	VW032105.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:13 AM	MMDadoda	8/19/2025 4:23:45 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY081225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY023050.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC005	VY023050.D	Methacrylonitrile	MMDadoda	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC010	VY023051.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:06 PM	SAM	8/14/2025 7:43:57 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	Methacrylonitrile	MMDadoda	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICCC050	VY023053.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:10 PM	SAM	8/14/2025 7:44:00 PM	Peak Integrated by Software
VSTDICC100	VY023054.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:12 PM	SAM	8/14/2025 7:44:02 PM	Peak Integrated by Software
VSTDICC150	VY023055.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:15 PM	SAM	8/14/2025 7:44:04 PM	Peak Integrated by Software
VSTDICV050	VY023057.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:16 PM	SAM	8/14/2025 7:44:06 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY081525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023111.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:46 AM	MMDadoda	8/19/2025 4:24:10 AM	Peak Integrated by Software
VSTDCCC050	VY023111.D	Methacrylonitrile	SAM	8/19/2025 4:19:46 AM	MMDadoda	8/19/2025 4:24:10 AM	Peak Integrated by Software
VY0815SBS01	VY023113.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:47 AM	MMDadoda	8/19/2025 4:24:11 AM	Peak Integrated by Software
VSTDCCC050	VY023135.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:49 AM	MMDadoda	8/19/2025 4:24:14 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy081925	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023137.D	1,2,3-Trichloropropane	JOHN	8/20/2025 9:04:35 AM	MMDadoda	8/20/2025 9:12:29 AM	Peak Integrated by Software
VSTDCCC050	VY023137.D	Methacrylonitrile	JOHN	8/20/2025 9:04:35 AM	MMDadoda	8/20/2025 9:12:29 AM	Peak Integrated by Software
VY0819SBS01	VY023139.D	1,2,3-Trichloropropane	JOHN	8/20/2025 9:04:39 AM	MMDadoda	8/20/2025 9:12:33 AM	Peak Integrated by Software
VY0819SBS01	VY023139.D	Methacrylonitrile	JOHN	8/20/2025 9:04:39 AM	MMDadoda	8/20/2025 9:12:33 AM	Peak Integrated by Software
VSTDCCC050	VY023160.D	1,2,3-Trichloropropane	JOHN	8/20/2025 9:04:48 AM	MMDadoda	8/20/2025 9:12:40 AM	Peak Integrated by Software

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM				
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135074
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080
CCC	VP135082
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135081
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032051.D	11 Aug 2025 07:53	SY/MD	Ok
2	VSTDICC005	VW032052.D	11 Aug 2025 08:25	SY/MD	Ok,M
3	VSTDICC010	VW032053.D	11 Aug 2025 09:09	SY/MD	Ok,M
4	VSTDICC020	VW032054.D	11 Aug 2025 09:47	SY/MD	Ok,M
5	VSTDICCC050	VW032055.D	11 Aug 2025 10:09	SY/MD	Ok,M
6	VSTDICC100	VW032056.D	11 Aug 2025 10:46	SY/MD	Ok,M
7	VSTDICC150	VW032057.D	11 Aug 2025 11:08	SY/MD	Ok,M
8	VIBLK	VW032058.D	11 Aug 2025 11:30	SY/MD	Ok
9	VSTDICV050	VW032059.D	11 Aug 2025 11:51	SY/MD	Ok,M
10	VW0811SBL01	VW032060.D	11 Aug 2025 12:18	SY/MD	Ok
11	VW0811SBS01	VW032061.D	11 Aug 2025 12:48	SY/MD	Ok,M
12	VW0811SBSD01	VW032062.D	11 Aug 2025 13:10	SY/MD	Ok,M
13	Q2807-01	VW032063.D	11 Aug 2025 14:00	SY/MD	Ok
14	Q2807-02	VW032064.D	11 Aug 2025 14:22	SY/MD	Ok
15	Q2807-03	VW032065.D	11 Aug 2025 14:44	SY/MD	Ok
16	Q2808-03	VW032066.D	11 Aug 2025 15:06	SY/MD	Ok
17	Q2809-01	VW032067.D	11 Aug 2025 15:28	SY/MD	Ok
18	Q2823-01	VW032068.D	11 Aug 2025 15:50	SY/MD	Ok
19	Q2818-01	VW032069.D	11 Aug 2025 16:12	SY/MD	Ok
20	Q2818-02	VW032070.D	11 Aug 2025 16:34	SY/MD	Ok
21	Q2819-01	VW032071.D	11 Aug 2025 16:56	SY/MD	Ok

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM				
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135074
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080
CCC	VP135082
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135081
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2819-02	VW032072.D	11 Aug 2025 17:18	SY/MD	Ok
23	Q2819-03	VW032073.D	11 Aug 2025 17:41	SY/MD	Ok
24	Q2819-04	VW032074.D	11 Aug 2025 18:03	SY/MD	Ok
25	Q2819-05	VW032075.D	11 Aug 2025 18:25	SY/MD	Ok
26	Q2819-06	VW032076.D	11 Aug 2025 18:47	SY/MD	Ok
27	VIBLK	VW032077.D	11 Aug 2025 19:09	SY/MD	Ok
28	VSTDCCC050	VW032078.D	11 Aug 2025 19:31	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081425

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:19:30 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:23:55 AM				
SubDirectory	VW081425	HP Acquire Method	MSVOA_W		HP Processing Method	82w081125s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP135133
Initial Calibration Stds	
CCC	VP135137,VP135138
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032079.D	14 Aug 2025 09:05	SY/MD	Ok
2	VSTDCCC050	VW032080.D	14 Aug 2025 09:27	SY/MD	Ok,M
3	VW0814SBL01	VW032081.D	14 Aug 2025 10:00	SY/MD	Ok
4	VW0814SBS01	VW032082.D	14 Aug 2025 10:27	SY/MD	Ok,M
5	VW0814SBSD01	VW032083.D	14 Aug 2025 10:58	SY/MD	Ok,M
6	Q2820-01	VW032084.D	14 Aug 2025 11:39	SY/MD	ReRun
7	Q2820-02	VW032085.D	14 Aug 2025 12:02	SY/MD	Ok,M
8	Q2820-03	VW032086.D	14 Aug 2025 12:24	SY/MD	Ok
9	Q2820-04	VW032087.D	14 Aug 2025 12:46	SY/MD	Ok
10	Q2820-05	VW032088.D	14 Aug 2025 13:09	SY/MD	Ok
11	Q2820-06	VW032089.D	14 Aug 2025 13:31	SY/MD	Ok
12	Q2820-07	VW032090.D	14 Aug 2025 13:54	SY/MD	Ok
13	Q2820-08	VW032091.D	14 Aug 2025 14:16	SY/MD	Ok
14	Q2820-09	VW032092.D	14 Aug 2025 14:39	SY/MD	Ok
15	Q2820-10	VW032093.D	14 Aug 2025 15:01	SY/MD	Ok
16	Q2820-11	VW032094.D	14 Aug 2025 15:24	SY/MD	Ok
17	Q2820-12	VW032095.D	14 Aug 2025 15:47	SY/MD	Ok
18	Q2820-13	VW032096.D	14 Aug 2025 16:10	SY/MD	Ok
19	Q2820-14	VW032097.D	14 Aug 2025 16:32	SY/MD	Ok
20	Q2820-15	VW032098.D	14 Aug 2025 16:55	SY/MD	ReRun
21	Q2820-16	VW032099.D	14 Aug 2025 17:17	SY/MD	Ok

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081425

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:19:30 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:23:55 AM				
SubDirectory	VW081425	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135133
Initial Calibration Stds	
CCC	VP135137,VP135138
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2820-17	VW032100.D	14 Aug 2025 17:40	SY/MD	Ok
23	Q2820-18	VW032101.D	14 Aug 2025 18:02	SY/MD	Ok
24	Q2820-19	VW032102.D	14 Aug 2025 18:25	SY/MD	Ok
25	Q2820-20	VW032103.D	14 Aug 2025 18:47	SY/MD	Ok
26	VIBLK	VW032104.D	14 Aug 2025 19:10	SY/MD	Ok
27	VSTDCCC050	VW032105.D	14 Aug 2025 19:32	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

Review By	Mahesh Dadoda	Review On	8/14/2025 7:34:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM		
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135083
Initial Calibration Stds	VP135084,VP135085,VP135086,VP135087,VP135088,VP135089
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135090
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023048.D	12 Aug 2025 08:26	SY/MD	Ok
2	VSTDICC005	VY023049.D	12 Aug 2025 14:32	SY/MD	Not Ok
3	VSTDICC005	VY023050.D	12 Aug 2025 14:54	SY/MD	Ok,M
4	VSTDICC010	VY023051.D	12 Aug 2025 15:17	SY/MD	Ok,M
5	VSTDICC020	VY023052.D	12 Aug 2025 15:40	SY/MD	Ok,M
6	VSTDICCC050	VY023053.D	12 Aug 2025 16:02	SY/MD	Ok,M
7	VSTDICC100	VY023054.D	12 Aug 2025 16:25	SY/MD	Ok,M
8	VSTDICC150	VY023055.D	12 Aug 2025 16:47	SY/MD	Ok,M
9	VIBLK	VY023056.D	12 Aug 2025 17:31	SY/MD	Ok
10	VSTDICV050	VY023057.D	12 Aug 2025 17:53	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM				
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023110.D	15 Aug 2025 08:07	SY/MD	Ok
2	VSTDCCC050	VY023111.D	15 Aug 2025 08:39	SY/MD	Ok,M
3	VY0815SBL01	VY023112.D	15 Aug 2025 09:08	SY/MD	Ok
4	VY0815SBS01	VY023113.D	15 Aug 2025 09:37	SY/MD	Ok,M
5	VY0815SBSD01	VY023114.D	15 Aug 2025 09:59	SY/MD	Ok,M
6	Q2876-01	VY023115.D	15 Aug 2025 10:44	SY/MD	Ok
7	Q2877-01	VY023116.D	15 Aug 2025 11:07	SY/MD	Ok
8	Q2853-01	VY023117.D	15 Aug 2025 11:31	SY/MD	Ok
9	Q2820-21	VY023118.D	15 Aug 2025 11:54	SY/MD	Ok
10	Q2820-22	VY023119.D	15 Aug 2025 12:18	SY/MD	Ok
11	Q2883-01	VY023120.D	15 Aug 2025 12:41	SY/MD	Ok
12	Q2820-23	VY023121.D	15 Aug 2025 13:05	SY/MD	ReRun
13	Q2820-24	VY023122.D	15 Aug 2025 13:28	SY/MD	Ok
14	Q2832-01	VY023123.D	15 Aug 2025 14:24	SY/MD	Ok
15	Q2832-03	VY023124.D	15 Aug 2025 14:47	SY/MD	Ok
16	Q2832-05	VY023125.D	15 Aug 2025 15:11	SY/MD	Ok
17	Q2832-07	VY023126.D	15 Aug 2025 15:34	SY/MD	Ok
18	Q2832-09	VY023127.D	15 Aug 2025 15:58	SY/MD	Ok
19	Q2844-02	VY023128.D	15 Aug 2025 16:21	SY/MD	Ok
20	Q2844-04	VY023129.D	15 Aug 2025 16:45	SY/MD	Ok
21	Q2844-06	VY023130.D	15 Aug 2025 17:08	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM				
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2868-02	VY023131.D	15 Aug 2025 17:33	SY/MD	Ok
23	Q2865-01	VY023132.D	15 Aug 2025 17:56	SY/MD	Ok
24	Q2884-01	VY023133.D	15 Aug 2025 18:19	SY/MD	Ok
25	VIBLK	VY023134.D	15 Aug 2025 18:43	SY/MD	Ok
26	VSTDCCC050	VY023135.D	15 Aug 2025 19:06	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

Review By	John Carlone	Review On	8/20/2025 9:05:17 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 9:12:04 AM				
SubDirectory	VY081925	HP Acquire Method	MSVOA_Y		HP Processing Method	82y081225s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP135166
Initial Calibration Stds	
CCC	VP135167,VP135168
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023136.D	19 Aug 2025 07:45	SY/MD	Ok
2	VSTDCCC050	VY023137.D	19 Aug 2025 09:11	SY/MD	Ok,M
3	VY0819SBL01	VY023138.D	19 Aug 2025 09:49	SY/MD	Ok
4	VY0819SBS01	VY023139.D	19 Aug 2025 10:19	SY/MD	Ok,M
5	VY0819SBSD01	VY023140.D	19 Aug 2025 10:42	SY/MD	Ok,M
6	Q2820-01	VY023141.D	19 Aug 2025 11:20	SY/MD	Ok
7	Q2820-15	VY023142.D	19 Aug 2025 11:44	SY/MD	Ok
8	Q2820-23	VY023143.D	19 Aug 2025 12:07	SY/MD	Ok
9	Q2819-20	VY023144.D	19 Aug 2025 12:31	SY/MD	Ok
10	Q2870-01	VY023145.D	19 Aug 2025 12:54	SY/MD	Not Ok
11	Q2871-04RE	VY023146.D	19 Aug 2025 13:18	SY/MD	Confirms
12	Q2872-01RE	VY023147.D	19 Aug 2025 13:41	SY/MD	Confirms
13	Q2879-01	VY023148.D	19 Aug 2025 14:04	SY/MD	Ok
14	Q2879-03	VY023149.D	19 Aug 2025 14:28	SY/MD	ReRun
15	Q2879-05	VY023150.D	19 Aug 2025 14:51	SY/MD	ReRun
16	Q2879-07	VY023151.D	19 Aug 2025 15:15	SY/MD	Ok
17	Q2879-09	VY023152.D	19 Aug 2025 15:38	SY/MD	ReRun
18	Q2879-11	VY023153.D	19 Aug 2025 16:02	SY/MD	ReRun
19	Q2879-13	VY023154.D	19 Aug 2025 16:25	SY/MD	ReRun
20	Q2879-15	VY023155.D	19 Aug 2025 16:49	SY/MD	ReRun
21	Q2879-17	VY023156.D	19 Aug 2025 17:12	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

Review By	John Carlone	Review On	8/20/2025 9:05:17 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 9:12:04 AM				
SubDirectory	VY081925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135166
Initial Calibration Stds	
CCC	VP135167,VP135168
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2897-01	VY023157.D	19 Aug 2025 17:36	SY/MD	ReRun
23	Q2889-01	VY023158.D	19 Aug 2025 17:59	SY/MD	Ok
24	Q2888-01	VY023159.D	19 Aug 2025 18:22	SY/MD	Ok
25	VSTDCCC050	VY023160.D	19 Aug 2025 19:08	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM		
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135074
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080
CCC	VP135082
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135081
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032051.D	11 Aug 2025 07:53		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032052.D	11 Aug 2025 08:25		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032053.D	11 Aug 2025 09:09		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032054.D	11 Aug 2025 09:47		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032055.D	11 Aug 2025 10:09		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032056.D	11 Aug 2025 10:46		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032057.D	11 Aug 2025 11:08		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032058.D	11 Aug 2025 11:30		SY/MD	Ok
9	VSTDICV050	ICVVW081125	VW032059.D	11 Aug 2025 11:51		SY/MD	Ok,M
10	VW0811SBL01	VW0811SBL01	VW032060.D	11 Aug 2025 12:18		SY/MD	Ok
11	VW0811SBS01	VW0811SBS01	VW032061.D	11 Aug 2025 12:48		SY/MD	Ok,M
12	VW0811SBSD01	VW0811SBSD01	VW032062.D	11 Aug 2025 13:10		SY/MD	Ok,M
13	Q2807-01	COMP-4	VW032063.D	11 Aug 2025 14:00	vial-A	SY/MD	Ok
14	Q2807-02	COMP-5	VW032064.D	11 Aug 2025 14:22	vial-A	SY/MD	Ok
15	Q2807-03	COMP-6	VW032065.D	11 Aug 2025 14:44	vial-A	SY/MD	Ok
16	Q2808-03	TP-7-VOC	VW032066.D	11 Aug 2025 15:06	vial-A	SY/MD	Ok
17	Q2809-01	OR-03-08082025	VW032067.D	11 Aug 2025 15:28	vial-A	SY/MD	Ok
18	Q2823-01	SU-04-081125	VW032068.D	11 Aug 2025 15:50	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

Review By	Mahesh Dadoda	Review On	8/12/2025 1:11:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/12/2025 1:14:36 PM		
SubDirectory	VW081125	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135074
Initial Calibration Stds	VP135075,VP135076,VP135077,VP135078,VP135079,VP135080
CCC	VP135082
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135081
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2818-01	B-2-5-1	VW032069.D	11 Aug 2025 16:12	vial-A	SY/MD	Ok
20	Q2818-02	B-3-5-2	VW032070.D	11 Aug 2025 16:34	vial-A	SY/MD	Ok
21	Q2819-01	22BP-N	VW032071.D	11 Aug 2025 16:56	vial-A	SY/MD	Ok
22	Q2819-02	22BP-E	VW032072.D	11 Aug 2025 17:18	vial-A	SY/MD	Ok
23	Q2819-03	22BP-W	VW032073.D	11 Aug 2025 17:41	vial-A	SY/MD	Ok
24	Q2819-04	22BP-S	VW032074.D	11 Aug 2025 18:03	vial-A	SY/MD	Ok
25	Q2819-05	11M-W	VW032075.D	11 Aug 2025 18:25	vial-A	SY/MD	Ok
26	Q2819-06	11M-S	VW032076.D	11 Aug 2025 18:47	vial-A	SY/MD	Ok
27	VIBLK	VIBLK	VW032077.D	11 Aug 2025 19:09		SY/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VW032078.D	11 Aug 2025 19:31		SY/MD	Ok,M

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081425

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:19:30 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:23:55 AM		
SubDirectory	VW081425	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135133
Initial Calibration Stds	
CCC	VP135137,VP135138
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032079.D	14 Aug 2025 09:05		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032080.D	14 Aug 2025 09:27		SY/MD	Ok,M
3	VW0814SBL01	VW0814SBL01	VW032081.D	14 Aug 2025 10:00		SY/MD	Ok
4	VW0814SBS01	VW0814SBS01	VW032082.D	14 Aug 2025 10:27		SY/MD	Ok,M
5	VW0814SBSD01	VW0814SBSD01	VW032083.D	14 Aug 2025 10:58		SY/MD	Ok,M
6	Q2820-01	82H-S	VW032084.D	14 Aug 2025 11:39	vial-A Internal standard fail;Surrogate fail	SY/MD	ReRun
7	Q2820-02	82H-W	VW032085.D	14 Aug 2025 12:02	vial-A	SY/MD	Ok,M
8	Q2820-03	82H-N	VW032086.D	14 Aug 2025 12:24	vial-A	SY/MD	Ok
9	Q2820-04	SOIL-DUP-1	VW032087.D	14 Aug 2025 12:46	vial-A	SY/MD	Ok
10	Q2820-05	518R-E	VW032088.D	14 Aug 2025 13:09	vial-A	SY/MD	Ok
11	Q2820-06	518R-N	VW032089.D	14 Aug 2025 13:31	vial-A	SY/MD	Ok
12	Q2820-07	518R-S	VW032090.D	14 Aug 2025 13:54	vial-A	SY/MD	Ok
13	Q2820-08	518R-W	VW032091.D	14 Aug 2025 14:16	vial-A	SY/MD	Ok
14	Q2820-09	705R-S	VW032092.D	14 Aug 2025 14:39	vial-A	SY/MD	Ok
15	Q2820-10	SOIL-DUP-2	VW032093.D	14 Aug 2025 15:01	vial-A	SY/MD	Ok
16	Q2820-11	10PC-W	VW032094.D	14 Aug 2025 15:24	vial-A	SY/MD	Ok
17	Q2820-12	10PC-S	VW032095.D	14 Aug 2025 15:47	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW081425

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:19:30 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:23:55 AM		
SubDirectory	VW081425	HP Acquire Method	MSVOA_W	HP Processing Method	82w081125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135133
Initial Calibration Stds	
CCC	VP135137,VP135138
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2820-13	10P-W	VW032096.D	14 Aug 2025 16:10	vial-A	SY/MD	Ok
19	Q2820-14	10P-E	VW032097.D	14 Aug 2025 16:32	vial-A	SY/MD	Ok
20	Q2820-15	10P-S	VW032098.D	14 Aug 2025 16:55	vial-A Internal Standard Fail	SY/MD	ReRun
21	Q2820-16	10P-N	VW032099.D	14 Aug 2025 17:17	vial-A	SY/MD	Ok
22	Q2820-17	88H-E	VW032100.D	14 Aug 2025 17:40	vial-A	SY/MD	Ok
23	Q2820-18	88H-N	VW032101.D	14 Aug 2025 18:02	vial-A	SY/MD	Ok
24	Q2820-19	88H-W	VW032102.D	14 Aug 2025 18:25	vial-A	SY/MD	Ok
25	Q2820-20	88H-S	VW032103.D	14 Aug 2025 18:47	vial-A	SY/MD	Ok
26	VIBLK	VIBLK	VW032104.D	14 Aug 2025 19:10		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VW032105.D	14 Aug 2025 19:32		SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

Review By	Mahesh Dadoda	Review On	8/14/2025 7:34:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM		
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135083
Initial Calibration Stds	VP135084,VP135085,VP135086,VP135087,VP135088,VP135089
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135090
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023048.D	12 Aug 2025 08:26		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY023049.D	12 Aug 2025 14:32	Not used	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VY023050.D	12 Aug 2025 14:54		SY/MD	Ok,M
4	VSTDICC010	VSTDICC010	VY023051.D	12 Aug 2025 15:17		SY/MD	Ok,M
5	VSTDICC020	VSTDICC020	VY023052.D	12 Aug 2025 15:40	LR-20	SY/MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VY023053.D	12 Aug 2025 16:02		SY/MD	Ok,M
7	VSTDICC100	VSTDICC100	VY023054.D	12 Aug 2025 16:25		SY/MD	Ok,M
8	VSTDICC150	VSTDICC150	VY023055.D	12 Aug 2025 16:47		SY/MD	Ok,M
9	VIBLK	VIBLK	VY023056.D	12 Aug 2025 17:31		SY/MD	Ok
10	VSTDICV050	ICVVY081225	VY023057.D	12 Aug 2025 17:53		SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM		
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023110.D	15 Aug 2025 08:07		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023111.D	15 Aug 2025 08:39		SY/MD	Ok,M
3	VY0815SBL01	VY0815SBL01	VY023112.D	15 Aug 2025 09:08		SY/MD	Ok
4	VY0815SBS01	VY0815SBS01	VY023113.D	15 Aug 2025 09:37		SY/MD	Ok,M
5	VY0815SBSD01	VY0815SBSD01	VY023114.D	15 Aug 2025 09:59		SY/MD	Ok,M
6	Q2876-01	CL-02-08142025	VY023115.D	15 Aug 2025 10:44	vial-A	SY/MD	Ok
7	Q2877-01	EO-02-08142025	VY023116.D	15 Aug 2025 11:07	vial-A	SY/MD	Ok
8	Q2853-01	TR-05-081325	VY023117.D	15 Aug 2025 11:31	vial-A	SY/MD	Ok
9	Q2820-21	22M-N	VY023118.D	15 Aug 2025 11:54	vial-A	SY/MD	Ok
10	Q2820-22	22M-W	VY023119.D	15 Aug 2025 12:18	vial-A	SY/MD	Ok
11	Q2883-01	RBR2520553	VY023120.D	15 Aug 2025 12:41	vial-A	SY/MD	Ok
12	Q2820-23	22M-E	VY023121.D	15 Aug 2025 13:05	vial-A Surrogate fail	SY/MD	ReRun
13	Q2820-24	22M-S	VY023122.D	15 Aug 2025 13:28	vial-A	SY/MD	Ok
14	Q2832-01	TG-S01	VY023123.D	15 Aug 2025 14:24	vial-A	SY/MD	Ok
15	Q2832-03	TG-S02	VY023124.D	15 Aug 2025 14:47	vial-A	SY/MD	Ok
16	Q2832-05	TG-S03	VY023125.D	15 Aug 2025 15:11	vial-A	SY/MD	Ok
17	Q2832-07	TG-S04	VY023126.D	15 Aug 2025 15:34	vial-A	SY/MD	Ok
18	Q2832-09	TG-S05	VY023127.D	15 Aug 2025 15:58	vial-A	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM		
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2844-02	MOO-25-0224-0225	VY023128.D	15 Aug 2025 16:21	vial-A	SY/MD	Ok
20	Q2844-04	MOO-25-0234-0235	VY023129.D	15 Aug 2025 16:45	vial-A	SY/MD	Ok
21	Q2844-06	MOO-25-0223	VY023130.D	15 Aug 2025 17:08	vial-A	SY/MD	Ok
22	Q2868-02	VOC	VY023131.D	15 Aug 2025 17:33	vial-A	SY/MD	Ok
23	Q2865-01	ARS10-0047-VOC	VY023132.D	15 Aug 2025 17:56	vial-A	SY/MD	Ok
24	Q2884-01	VNJ-232	VY023133.D	15 Aug 2025 18:19	vial-A	SY/MD	Ok
25	VIBLK	VIBLK	VY023134.D	15 Aug 2025 18:43		SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY023135.D	15 Aug 2025 19:06		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

Review By	John Carlone	Review On	8/20/2025 9:05:17 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 9:12:04 AM		
SubDirectory	VY081925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135166
Initial Calibration Stds	
CCC	VP135167,VP135168
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023136.D	19 Aug 2025 07:45		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023137.D	19 Aug 2025 09:11		SY/MD	Ok,M
3	VY0819SBL01	VY0819SBL01	VY023138.D	19 Aug 2025 09:49		SY/MD	Ok
4	VY0819SBS01	VY0819SBS01	VY023139.D	19 Aug 2025 10:19		SY/MD	Ok,M
5	VY0819SBSD01	VY0819SBSD01	VY023140.D	19 Aug 2025 10:42		SY/MD	Ok,M
6	Q2820-01	82H-S	VY023141.D	19 Aug 2025 11:20	vial-B	SY/MD	Ok
7	Q2820-15	10P-S	VY023142.D	19 Aug 2025 11:44	vial-B	SY/MD	Ok
8	Q2820-23	22M-E	VY023143.D	19 Aug 2025 12:07	vial-B	SY/MD	Ok
9	Q2819-20	82H-E	VY023144.D	19 Aug 2025 12:31	vial-B	SY/MD	Ok
10	Q2870-01	DRILL CUTTING 1-5 C	VY023145.D	19 Aug 2025 12:54	vial-B Not Purge	SY/MD	Not Ok
11	Q2871-04RE	DRILL CUTTING 4-6 C	VY023146.D	19 Aug 2025 13:18	vial-B Internal Standard Fail	SY/MD	Confirms
12	Q2872-01RE	DRILL CUTTING 1-2 C	VY023147.D	19 Aug 2025 13:41	vial-B Internal Standard Fail	SY/MD	Confirms
13	Q2879-01	OU4-TS-GRILLO-TSCF	VY023148.D	19 Aug 2025 14:04	vial-A	SY/MD	Ok
14	Q2879-03	OU4-TS-GRILLO-TSCF	VY023149.D	19 Aug 2025 14:28	vial-A Surrogate fail	SY/MD	ReRun
15	Q2879-05	OU4-TS-GRILLO-TSCF	VY023150.D	19 Aug 2025 14:51	vial-A Surrogate fail	SY/MD	ReRun
16	Q2879-07	OU4-TS-GRILLO-TSCF	VY023151.D	19 Aug 2025 15:15	vial-A	SY/MD	Ok
17	Q2879-09	OU4-TS-GRILLO-TSCF	VY023152.D	19 Aug 2025 15:38	vial-A Surrogate fail	SY/MD	ReRun
18	Q2879-11	OU4-TS-GRILLO-TSCF	VY023153.D	19 Aug 2025 16:02	vial-A Surrogate fail	SY/MD	ReRun

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

Review By	John Carlone	Review On	8/20/2025 9:05:17 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 9:12:04 AM		
SubDirectory	VY081925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135166
Initial Calibration Stds	
CCC	VP135167,VP135168
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2879-13	OU4-TS-GRILLO-TSCF	VY023154.D	19 Aug 2025 16:25	vial-A Surrogate fail	SY/MD	ReRun
20	Q2879-15	OU4-TS-GRILLO-TSCF	VY023155.D	19 Aug 2025 16:49	vial-A Surrogate fail	SY/MD	ReRun
21	Q2879-17	OU4-TS-GRILLO-TSCF	VY023156.D	19 Aug 2025 17:12	vial-A Surrogate fail	SY/MD	ReRun
22	Q2897-01	HD-02-08182025	VY023157.D	19 Aug 2025 17:36	vial-A Internal Standard Fail	SY/MD	ReRun
23	Q2889-01	PL-02-081525	VY023158.D	19 Aug 2025 17:59	vial-A	SY/MD	Ok
24	Q2888-01	VNJ-210	VY023159.D	19 Aug 2025 18:22	vial-A	SY/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VY023160.D	19 Aug 2025 19:08		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC: LB136783

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2732-02	WC-A7-01-C	74	1.15	10.37	11.52	11.18	96.7	
Q2819-01	22BP-N	1	1.15	10.16	11.31	9.57	82.9	
Q2819-02	22BP-E	2	1.16	10.67	11.83	10.3	85.7	
Q2819-03	22BP-W	3	1.16	10.83	11.99	10.45	85.8	
Q2819-04	22BP-S	4	1.15	9.96	11.11	9.92	88.1	
Q2819-05	11M-W	5	1.14	10.45	11.59	10.7	91.5	
Q2819-06	11M-S	6	1.16	10.83	11.99	10.96	90.5	
Q2819-07	11M-N	7	1.16	10.81	11.97	9.37	75.9	
Q2819-08	11M-E	8	1.17	10.27	11.44	8.54	71.8	
Q2819-09	84SB-E	9	1.13	10.62	11.75	5.12	37.6	
Q2819-10	84SB-S	10	1.18	10.11	11.29	10.51	92.3	
Q2819-11	84SB-W	11	1.14	10.14	11.28	9.94	86.8	
Q2819-12	17M-S	12	1.19	118.66	119.85	11.15	8.4	
Q2819-13	17M-E	13	1.17	10.38	11.55	9.86	83.7	
Q2819-14	17M-W	14	1.15	10.46	11.61	10.1	85.6	
Q2819-15	17M-N	15	1.15	10.57	11.72	9.96	83.3	
Q2819-16	38M-S	16	1.15	10.77	11.92	11.1	92.4	
Q2819-17	38M-N	17	1.16	10.41	11.57	10.27	87.5	
Q2819-18	38M-W	18	1.14	10.66	11.8	10.34	86.3	
Q2819-19	38M-E	19	1.13	10.13	11.26	10.02	87.8	
Q2819-20	82H-E	20	1.17	10.64	11.81	9.38	77.2	
Q2820-01	82H-S	21	1.16	10.76	11.92	10.04	82.5	
Q2820-02	82H-W	22	1.15	11.21	12.36	10.51	83.5	
Q2820-03	82H-N	23	1.16	11.14	12.3	10.9	87.4	
Q2820-04	SOIL-DUP-1	24	1.16	10.83	11.99	10.56	86.8	
Q2820-05	518R-E	25	1.16	10.40	11.56	6.23	48.8	
Q2820-06	518R-N	26	1.18	10.55	11.73	9.35	77.4	
Q2820-07	518R-S	27	1.17	10.52	11.69	9.44	78.6	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC: LB136783

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2820-08	518R-W	28	1.13	10.80	11.93	10.74	89.0	
Q2820-09	705R-S	29	1.14	10.59	11.73	7.05	55.8	
Q2820-10	SOIL-DUP-2	30	1.15	10.87	12.02	6.41	48.4	
Q2820-11	10PC-W	31	1.11	10.25	11.36	10.58	92.4	
Q2820-12	10PC-S	32	1.19	10.52	11.71	10.88	92.1	
Q2820-13	10P-W	33	1.14	10.09	11.23	10.34	91.2	
Q2820-14	10P-E	34	1.19	10.37	11.56	9.62	81.3	
Q2820-15	10P-S	35	1.18	10.21	11.39	10.22	88.5	
Q2820-16	10P-N	36	1.11	10.09	11.2	9.81	86.2	
Q2820-17	88H-E	37	1.16	10.42	11.58	9.77	82.6	
Q2820-18	88H-N	38	1.16	10.90	12.06	10.57	86.3	
Q2820-19	88H-W	39	1.18	10.66	11.84	10.62	88.6	
Q2820-20	88H-S	40	1.18	10.12	11.3	9.74	84.6	
Q2820-21	22M-N	41	1.14	11.06	12.2	11.34	92.2	
Q2820-22	22M-W	42	1.17	10.90	12.07	6.94	52.9	
Q2820-23	22M-E	43	1.17	10.27	11.44	4.66	34.0	
Q2820-24	22M-S	44	1.13	10.68	11.81	10.63	89.0	
Q2832-01	TG-S01	45	1.15	10.46	11.61	10.92	93.4	
Q2832-03	TG-S02	46	1.18	10.41	11.59	10.97	94.0	
Q2832-05	TG-S03	47	1.15	10.50	11.65	11.00	93.8	
Q2832-07	TG-S04	48	1.17	10.58	11.75	11.02	93.1	
Q2832-09	TG-S05	49	1.15	10.40	11.55	10.6	90.9	
Q2836-02	WC-A2-15-C	75	1.18	10.38	11.56	9.67	81.8	
Q2836-06	WC-A2-16-C	76	1.19	10.43	11.62	10.66	90.8	
Q2836-10	WC-A2-17-C	77	1.19	10.48	11.67	10.96	93.2	
Q2836-14	WC-A5-02-C	78	1.19	10.17	11.36	8.8	74.8	
Q2838-01	TP-11	50	1.14	10.60	11.74	10.44	87.7	
Q2838-02	TP-11-EPH	51	1.14	10.85	11.99	9.57	77.7	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC: LB136783

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2838-03	TP-11-VOC	52	1.19	11.24	12.43	9.97	78.1	
Q2838-05	TP-10	53	1.14	11.08	12.22	10.75	86.7	
Q2838-06	TP-10-EPH	54	1.18	10.42	11.6	7.63	61.9	
Q2838-07	TP-10-VOC	55	1.18	10.50	11.68	8.68	71.4	
Q2839-01	BC274436-1-1	56	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-02	BC274436-1-2	57	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-03	BC151973-1-1	58	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-04	BC151973-1-2	59	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-05	BC271336-1-1	60	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-06	BC271336-1-2	61	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-07	BC271242-1-1	62	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-08	BC271242-1-2	63	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-09	BC271242-2-1	64	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-10	BC271242-2-2	65	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-11	BC226751-1-1	66	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-12	BC226751-1-2	67	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-13	BC226751-2-1	68	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-14	BC226751-2-2	69	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-15	JEC773V-1-1	70	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-16	JEC773V-1-2	71	1.00	1.00	2.00	2.00	100.0	PILC
Q2840-01	0804-SOIL	72	1.12	11.32	12.44	10.42	82.2	
Q2840-02	0804-D	73	1.00	1.00	2.00	2.00	100.0	debris

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 136783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2820-06	518R-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-07	518R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-08	518R-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-09	705R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-10	SOIL-DUP-2	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2819-19	38M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-20	82H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-01	82H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-02	82H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-03	82H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-04	SOIL-DUP-1	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-13	17M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-14	17M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-15	17M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-16	38M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-17	38M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-18	38M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-07	11M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-08	11M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-09	84SB-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-10	84SB-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO

Date/Time 08112125 1510

Raw Sample Received by: SB WC

Raw Sample Relinquished by:

Date/Time 08112125 1735

Raw Sample Received by:

Raw Sample Relinquished by: SB WC

WORKLIST(Hardcopy Internal Chain)

VB 136783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-01	22BP-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-02	22BP-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-03	22BP-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-04	22BP-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-05	11M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-06	11M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2820-23	22M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-24	22M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-17	88H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-18	88H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-19	88H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-20	88H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-21	22M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-22	22M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-11	10PC-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-12	10PC-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-13	10P-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-14	10P-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-15	10P-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-16	10P-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-05	518R-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: JB WSC

Raw Sample Relinquished by: [signature]

Date/Time 08/12/25 17:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JB WSC

WORKLIST(Hardcopy Internal Chain)

VB 136783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2839-04	BC151973-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-05	BC271336-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-06	BC271336-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-07	BC271242-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-08	BC271242-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-09	BC271242-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-10	BC271242-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-11	BC226751-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-12	BC226751-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-13	BC226751-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-14	BC226751-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-15	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-16	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2840-01	0804-SOIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO
Q2840-02	0804-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO

Date/Time 08112125 15:00
Raw Sample Received by: SB WPC
Raw Sample Relinquished by:

Date/Time 08112125 17:35
Raw Sample Received by:
Raw Sample Relinquished by: SB WPC

WS 131783

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-11	84SB-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-12	17M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2832-01	TG-S01	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2732-02	WC-A7-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J21	08/12/2025	Chemtech -SO
Q2832-03	TG-S02	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-05	TG-S03	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-07	TG-S04	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-09	TG-S05	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/12/2025	Chemtech -SO
Q2836-02	WC-A2-15-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-06	WC-A2-16-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-10	WC-A2-17-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-14	WC-A5-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2838-01	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-02	TP-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-03	TP-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-05	TP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-06	TP-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-07	TP-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2839-01	BC274436-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-02	BC274436-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-03	BC151973-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: SB WDC

Raw Sample Relinquished by: CP SM

Date/Time 08/12/25 17:35

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SB WDC

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Prep Standard - Chemical Standard Summary

Order ID : Q2820

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VW081425,VY081525,vy081925,

Standard ID :
VP133934,VP134147,VP134149,VP134150,VP134934,VP134957,VP135059,VP135060,VP135129,VP135130,VP135133,VP135137,VP135138,VP135149,VP135150,VP135151,VP135166,VP135167,VP135168,

Chemical ID :
V13391,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14636,V14637,V14638,V14639,V14673,V14702,V14705,V14716,V14745,V14751,V14806,V14807,V14843,V14906,V14921,V14929,V15057,V15058,V15059,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1917	8260 Internal standard 50 ppm	VP133934	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP134147	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14673 + 19.00000ml of V14929 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1811	8260 Working Std(2-CVE)-500ppm	VP134150	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 7.50000ml of V14929 + 12.50000ml of VP134149 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
249	8260 Surrogate, 100PPM	VP134934	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.10000ml of V14906 + 24.90000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
244	8260 Calibration Working STD Mix-First source, 100PPM	VP135060	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 5.62500ml of V14625 + 9.37500ml of VP135059 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135129	08/14/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 1.00000ml of V15059 + 1.50000ml of V15057 + 1.50000ml of V15058 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP135130	08/14/2025	09/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 5.62500ml of V14625 + 9.37500ml of VP135129 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP135133	08/14/2025	08/15/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135137	08/14/2025	08/15/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135138	08/14/2025	08/15/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP135149	08/15/2025	08/16/2025	Amit Patel	None	None	Mahesh Dadoda 08/20/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135150	08/15/2025	08/16/2025	Amit Patel	None	None	Mahesh Dadoda 08/20/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135151	08/15/2025	08/16/2025	Amit Patel	None	None	Mahesh Dadoda 08/20/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP135166	08/19/2025	08/20/2025	Amit Patel	None	None	Mahesh Dadoda 08/20/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135167	08/19/2025	08/20/2025	Amit Patel	None	None	Mahesh Dadoda 08/20/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135168	08/19/2025	08/20/2025	Amit Patel	None	None	Mahesh Dadoda 08/20/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15057

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

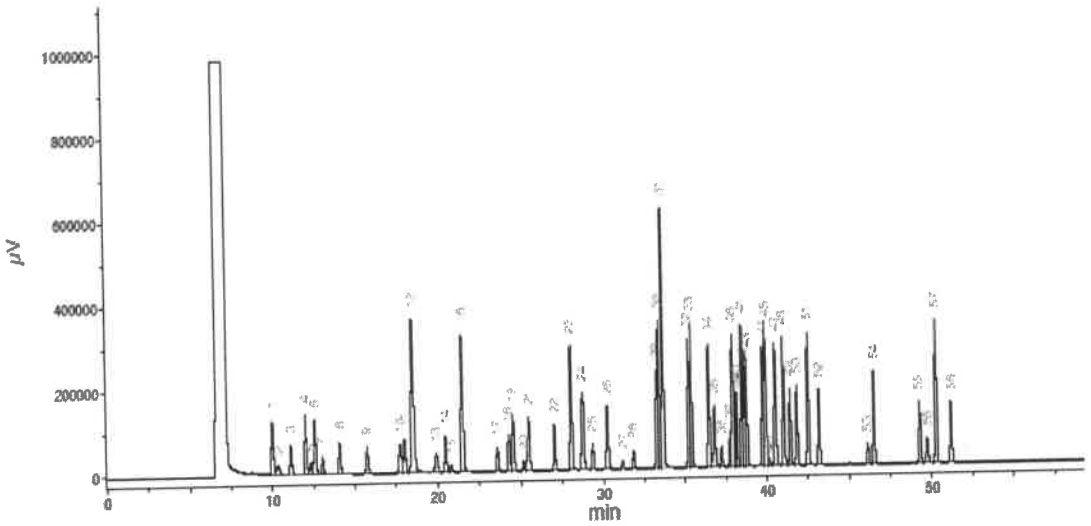
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.46
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

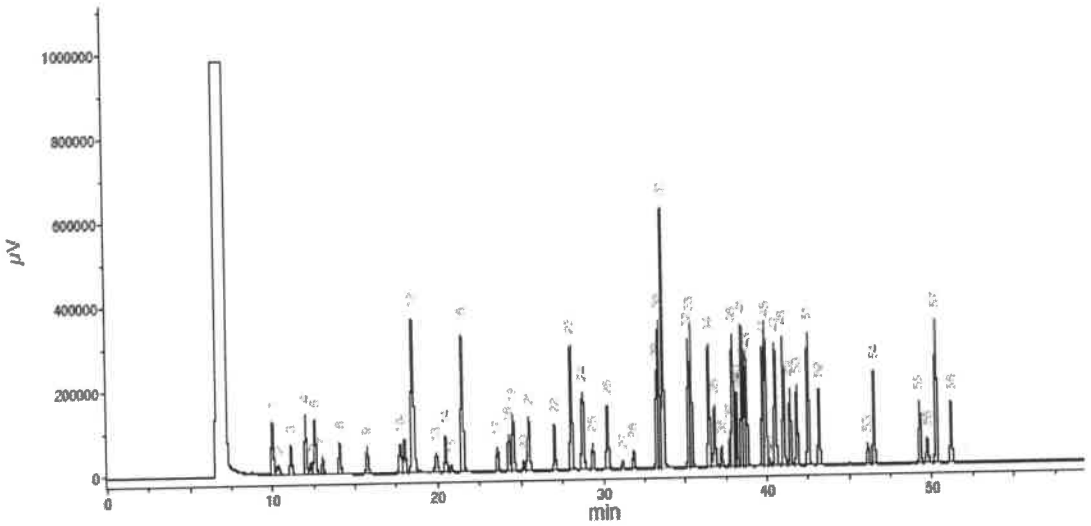
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.46
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

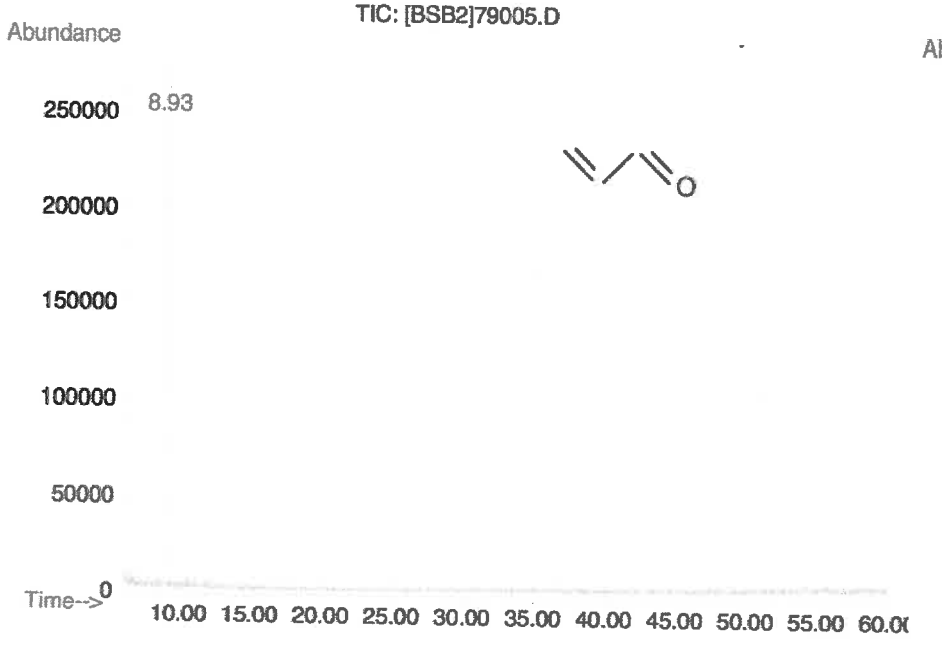
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

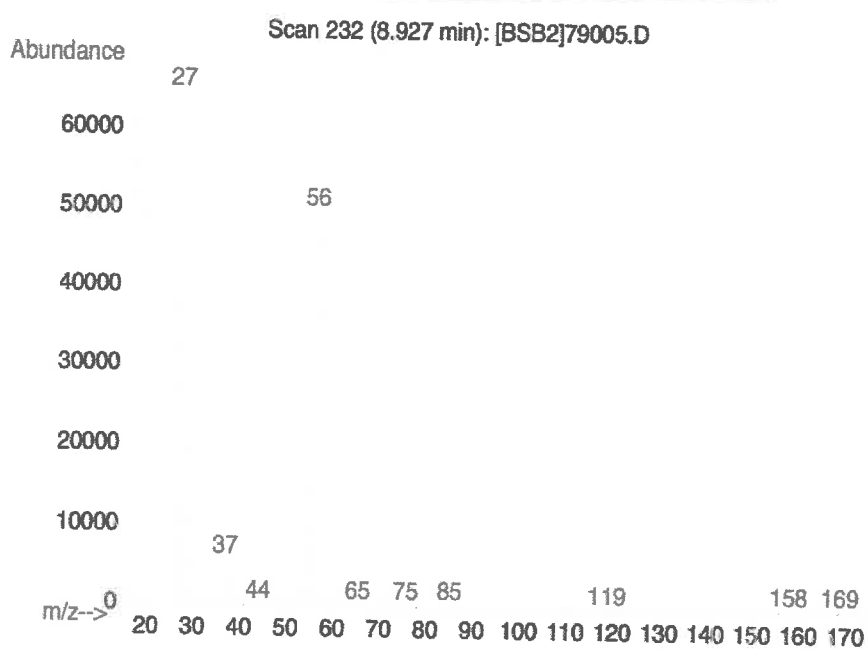
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

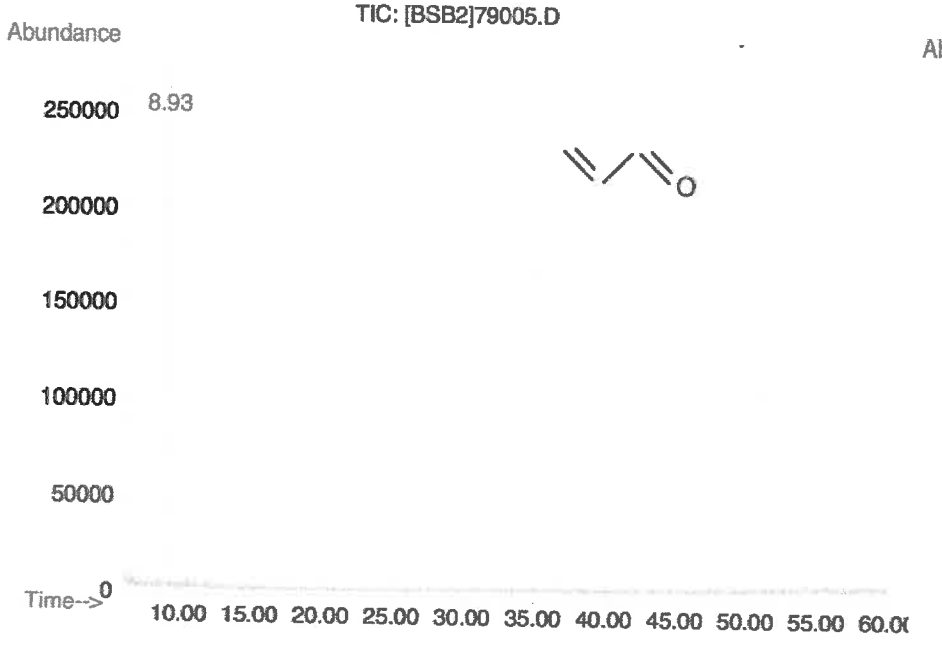
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

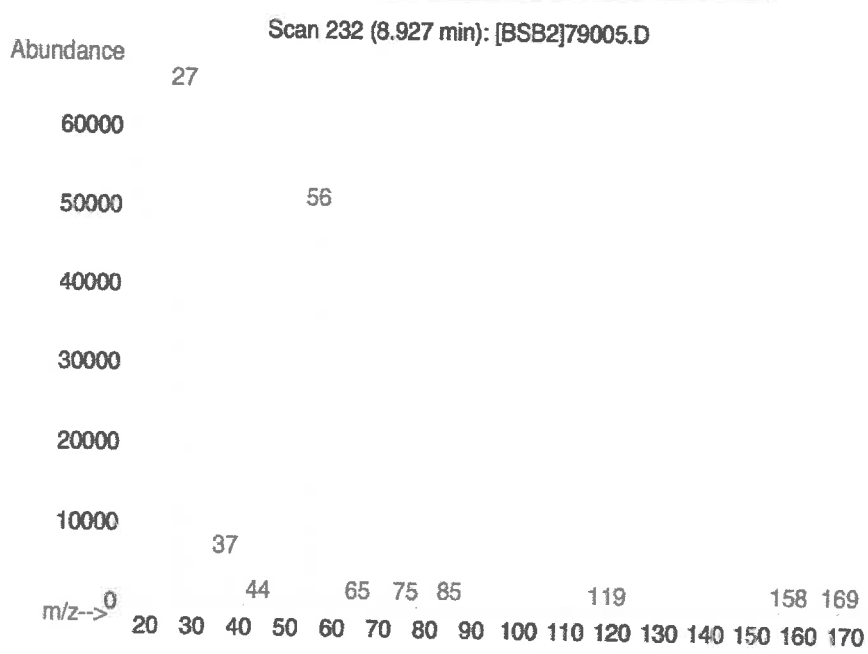
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

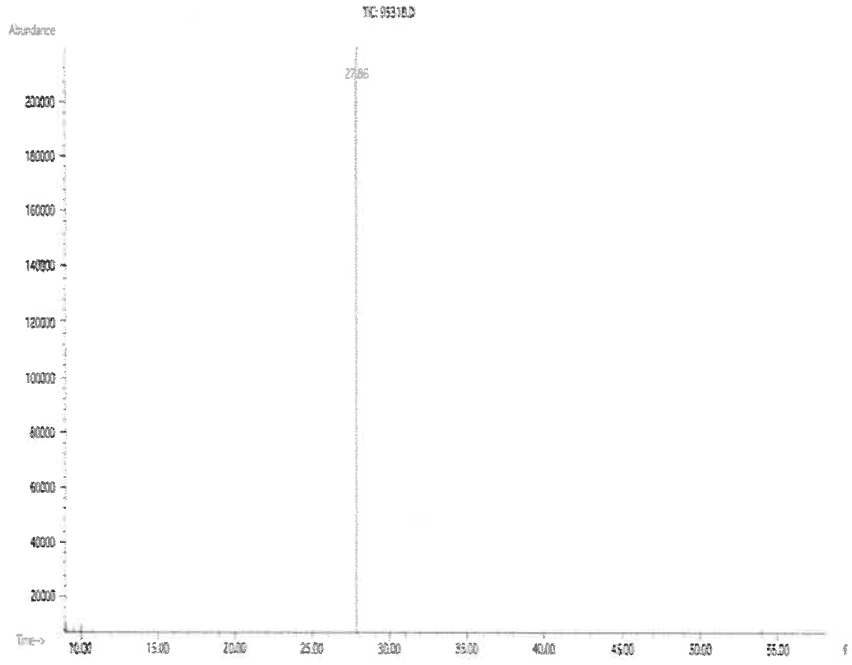
V14630 to V14649

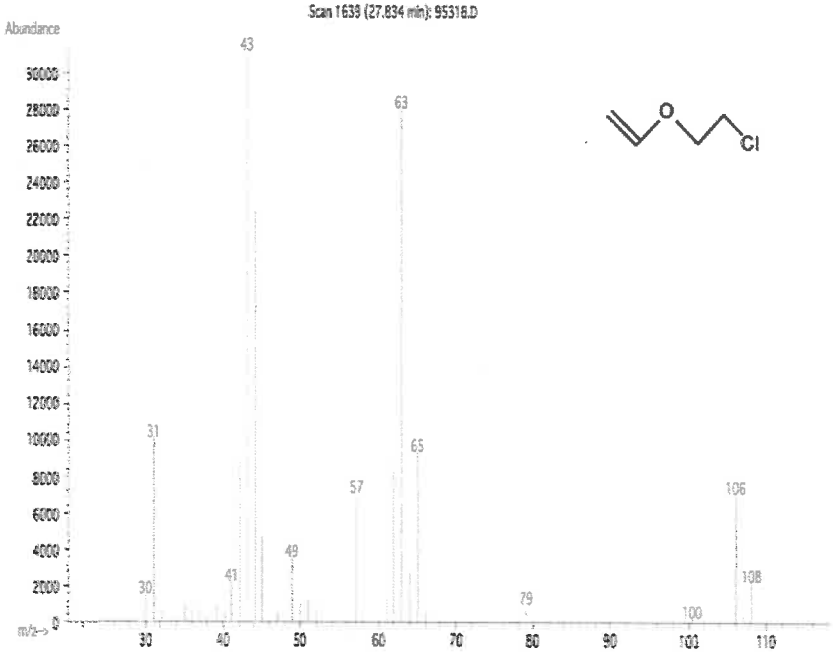
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

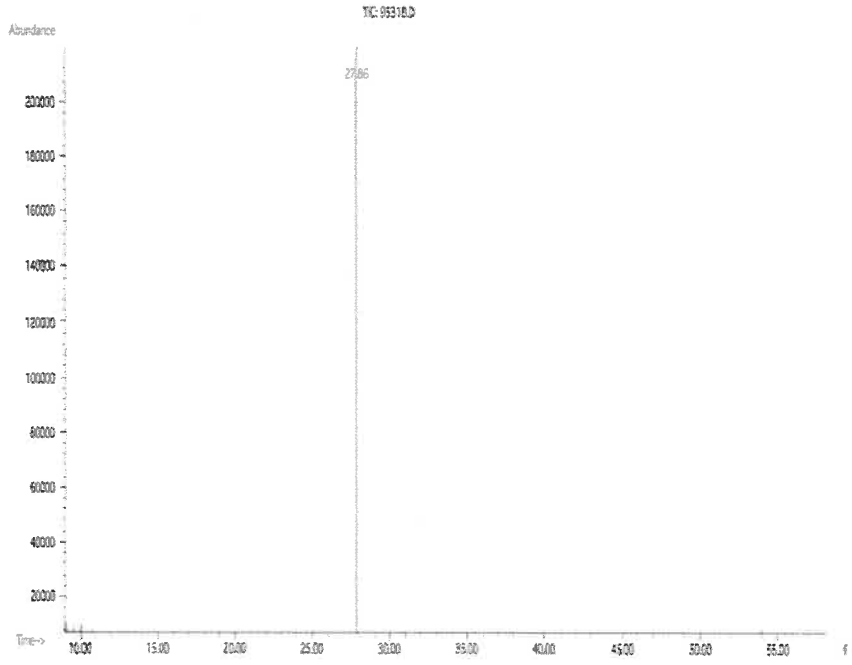
V14630 to V14649

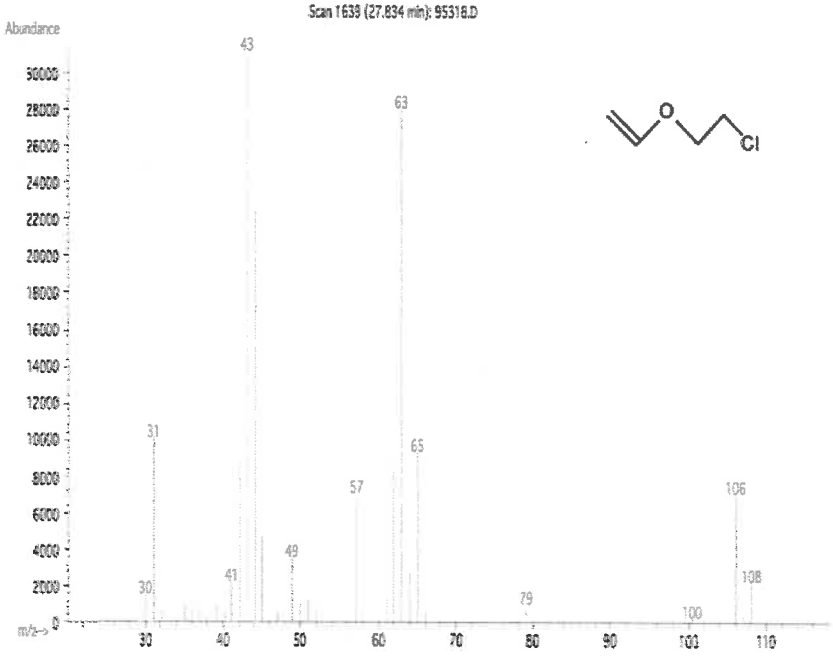
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

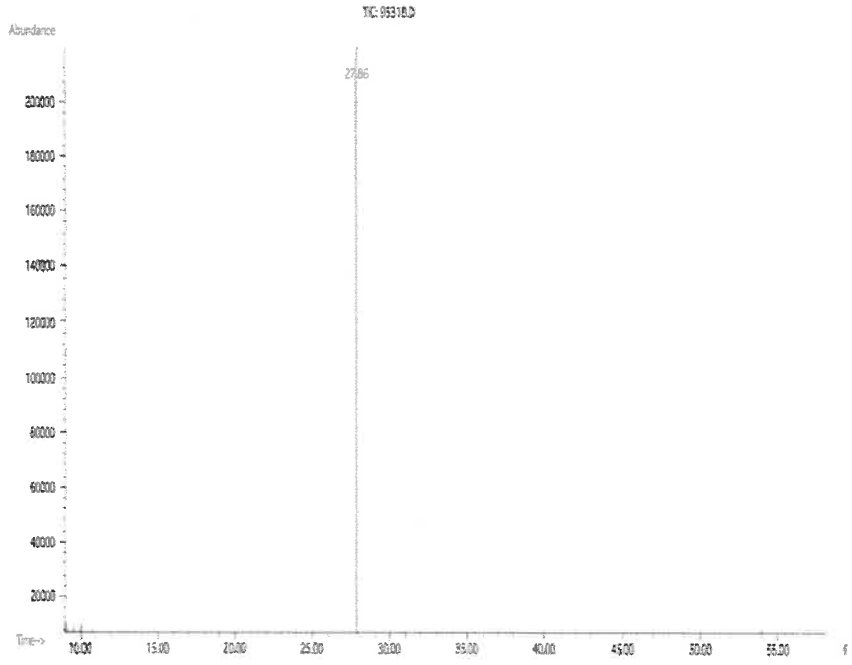
V14630 to V14649

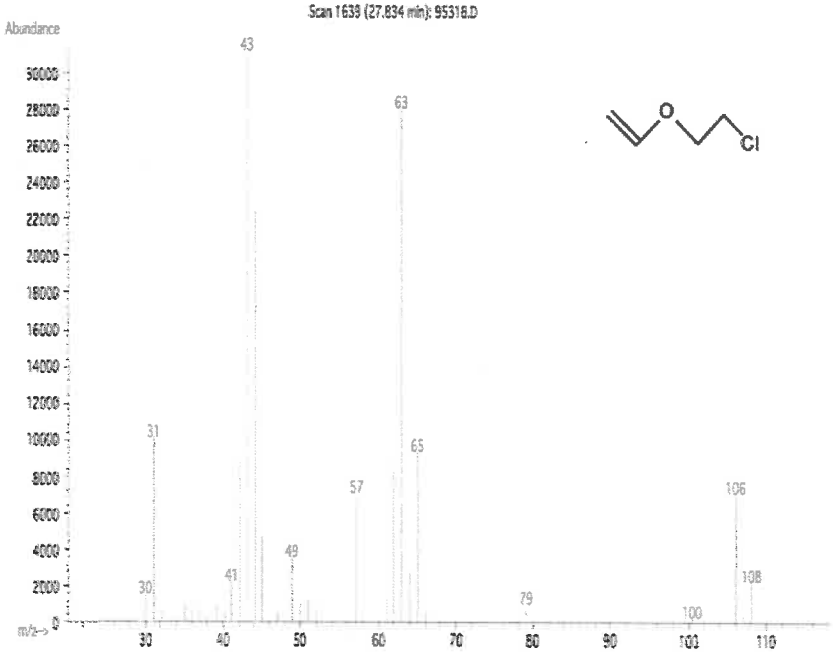
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Safety Data Sheet (SDS) GHS/OSHA Compliant

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IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
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LC50	15,400 mg/l - 96 h
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Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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Description: 2-Chloroethyl vinyl ether

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Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

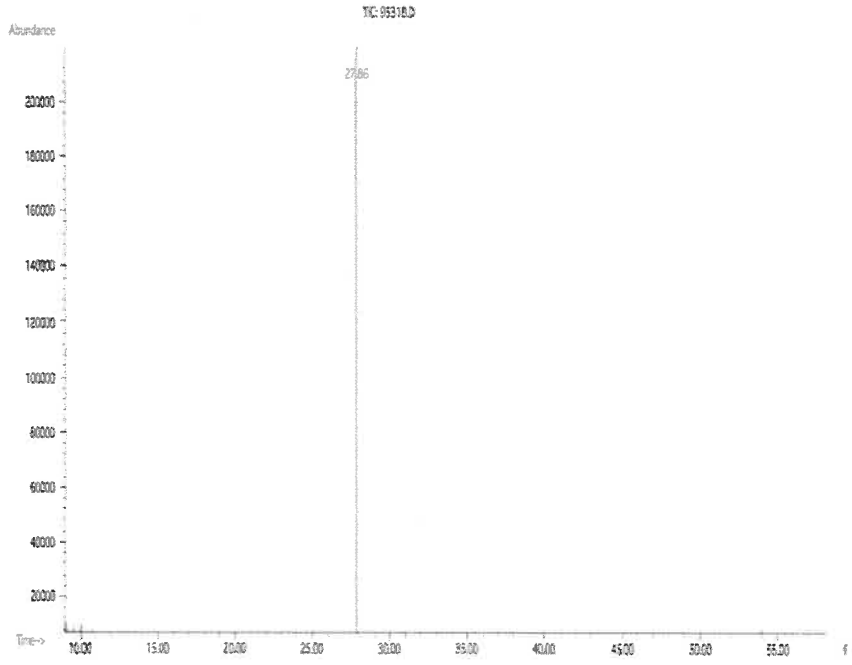
V14630 to V14649

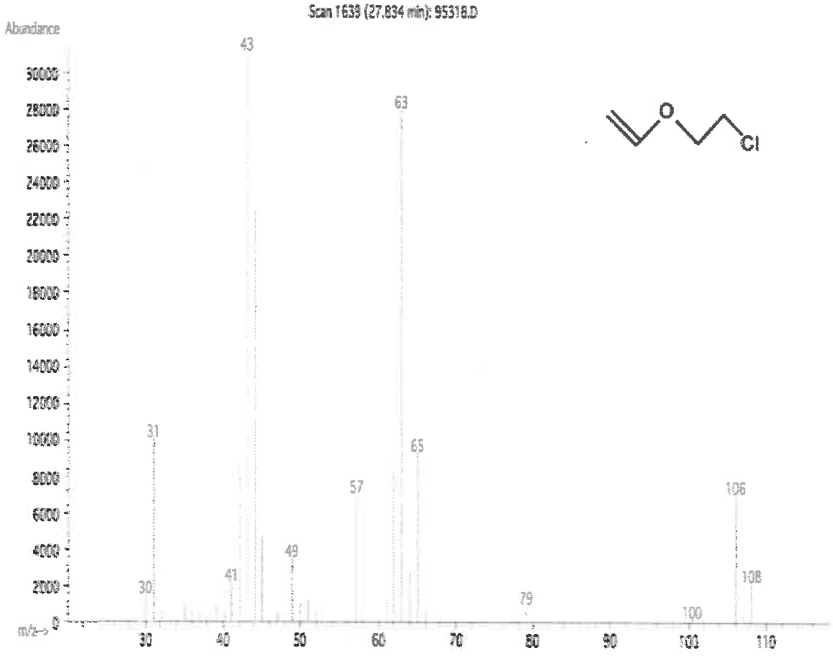
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Signal Word: DANGER

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Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

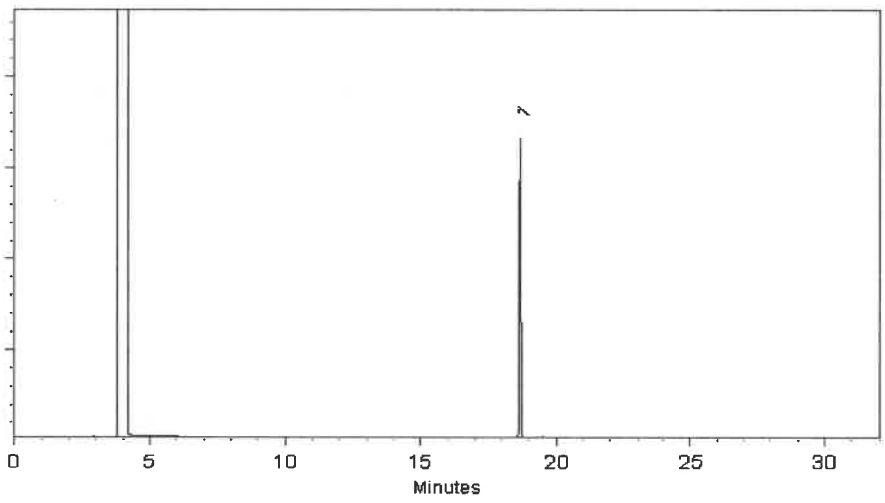
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I **Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

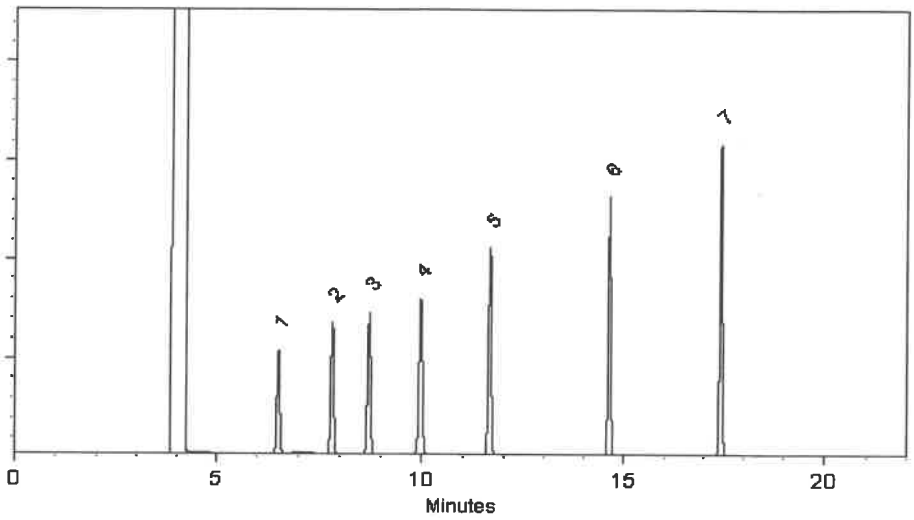
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

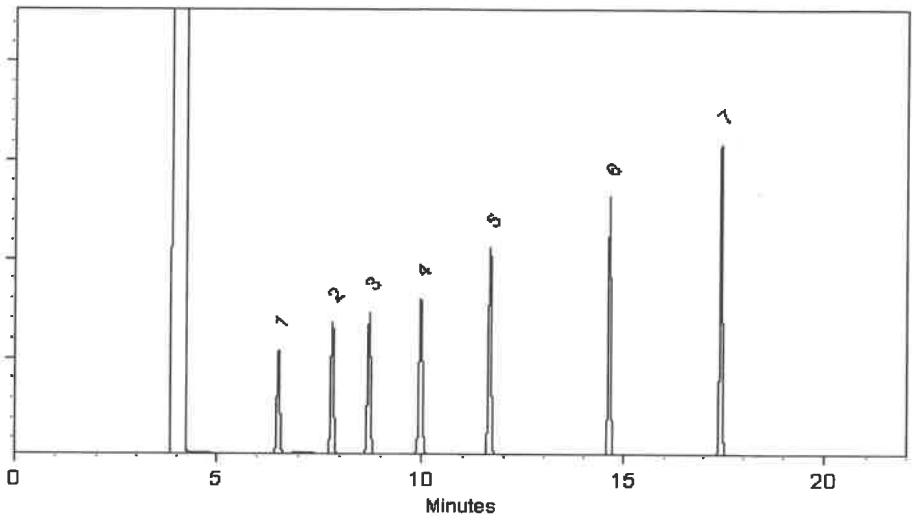
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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30 V.4

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

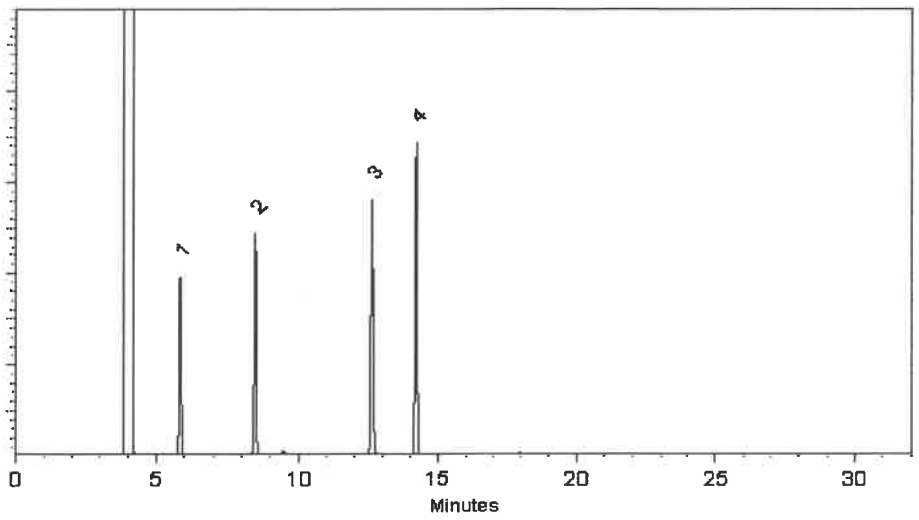
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

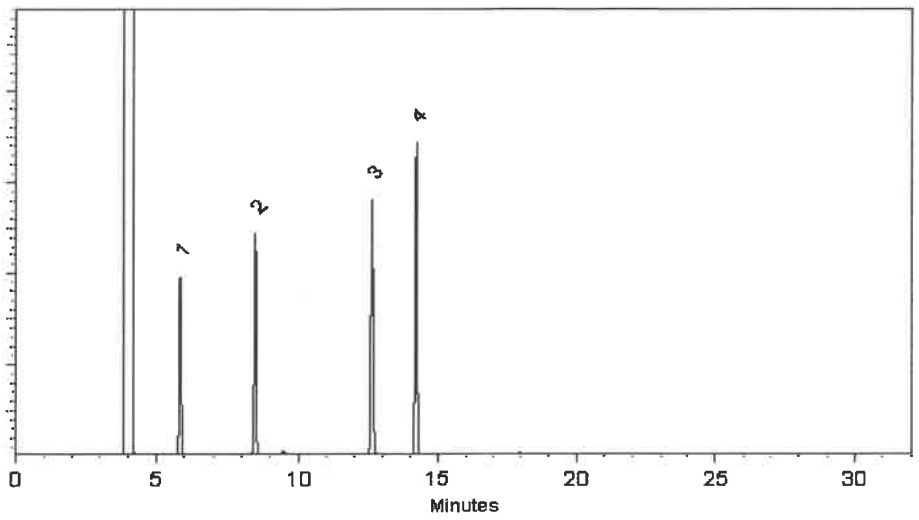
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

30 V.4

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V14697-to-14726

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

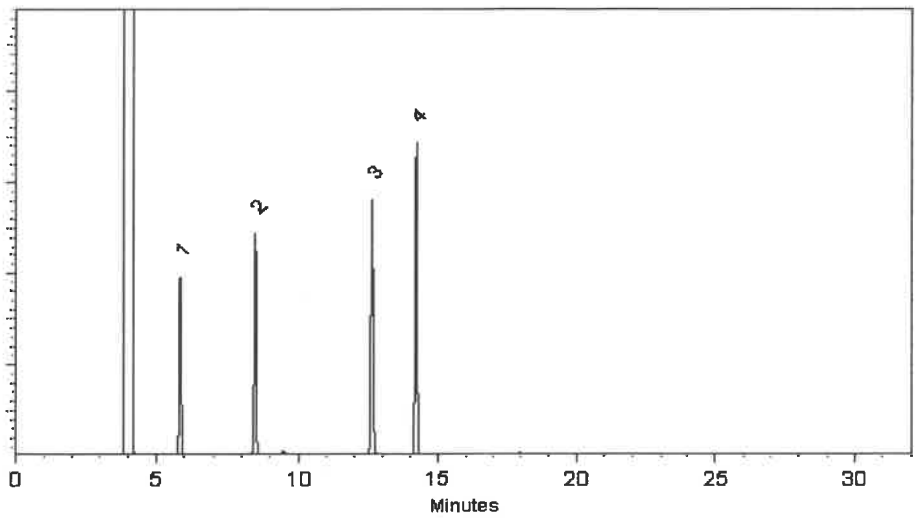
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Dec: 12/09/24

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

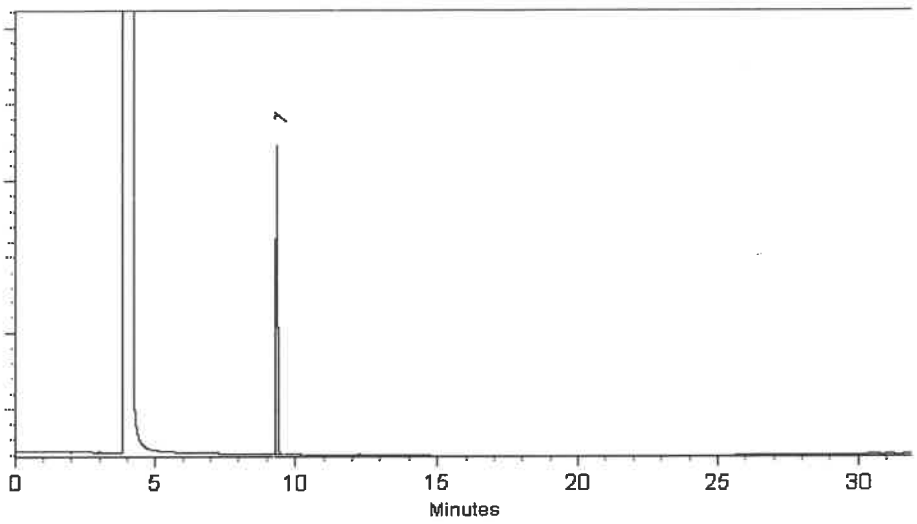
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

30 Vial

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

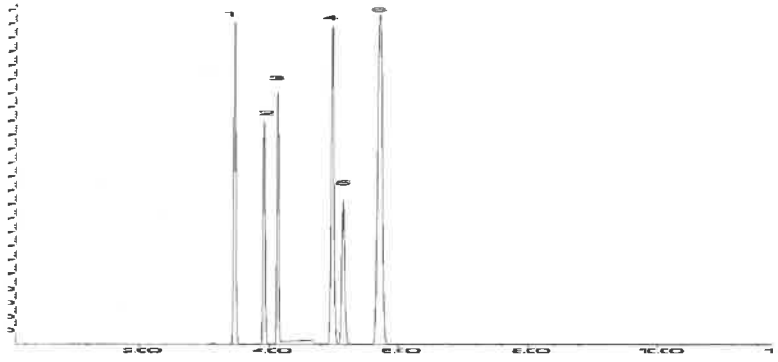
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

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V14727 to V14756

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

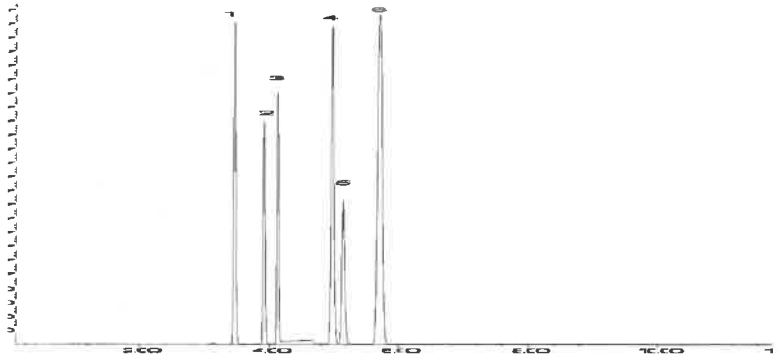
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

J14842 to 14846

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

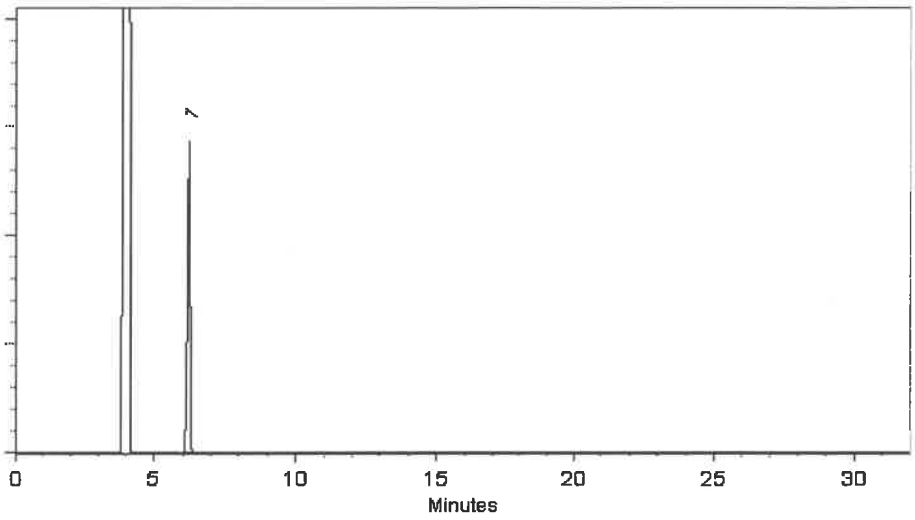
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoviny Rec 01/08/21

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

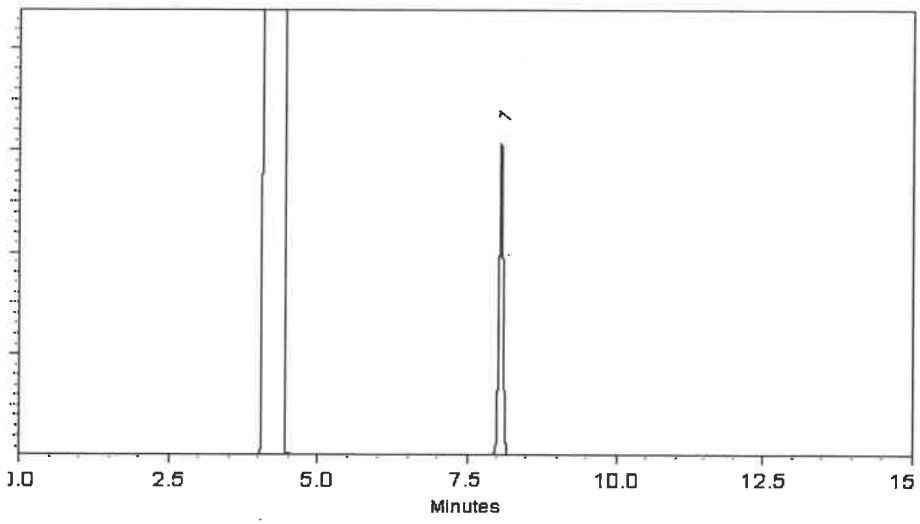
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Zoviny Rec 01/08/21

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

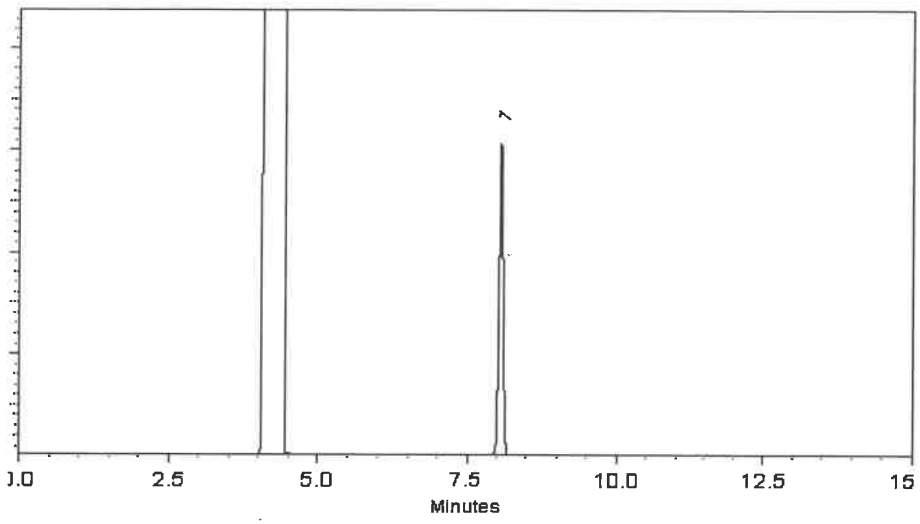
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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10 vial
Lee 03/31/25

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rev 08/14/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

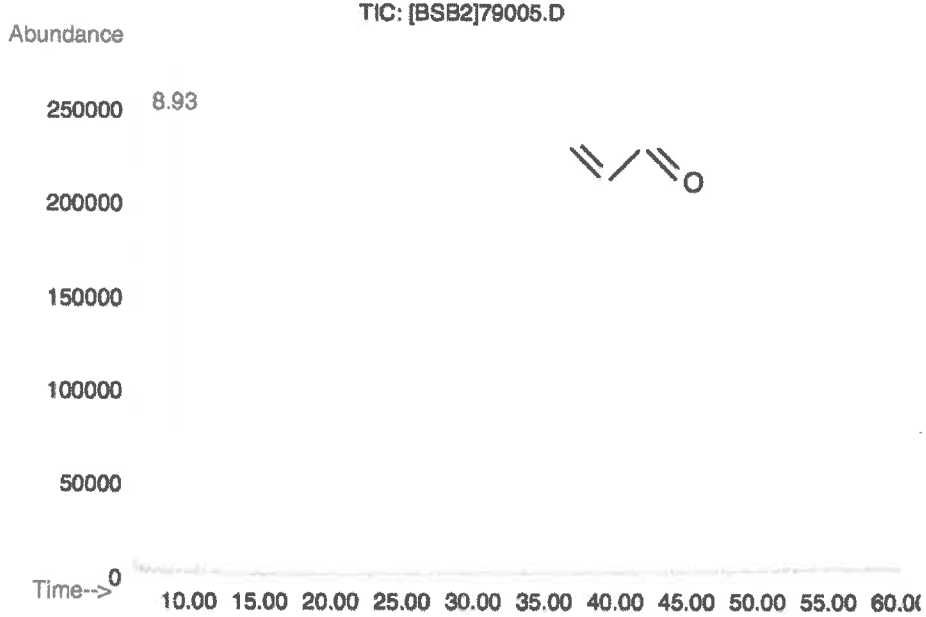
Weight(s) shown below were combined and diluted to (mL): 10.0

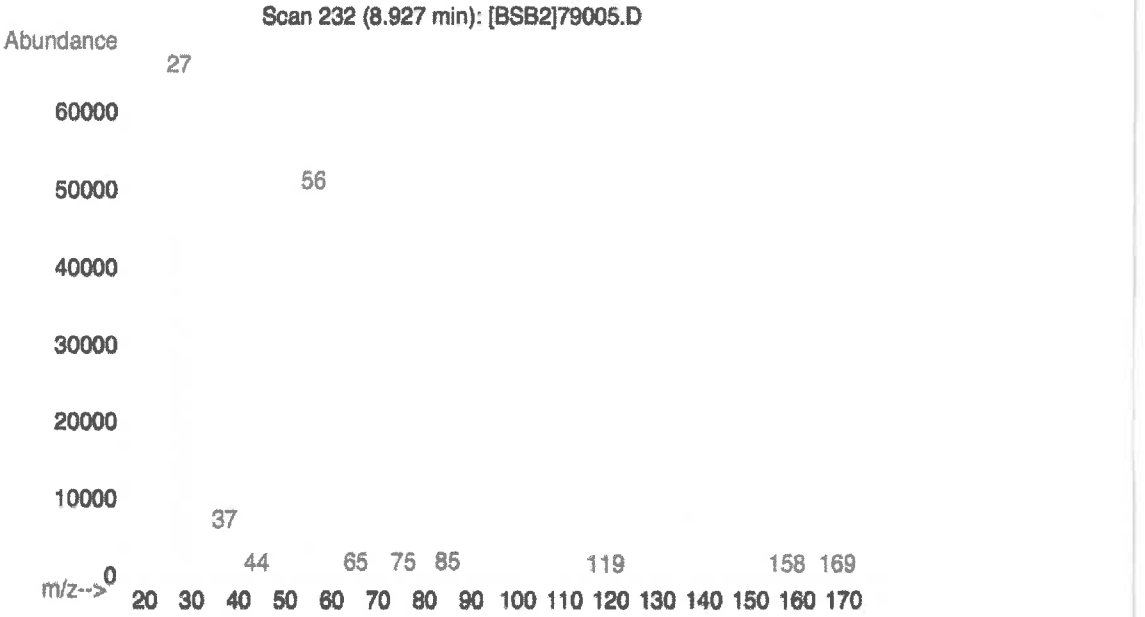
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

Rev 08/14/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

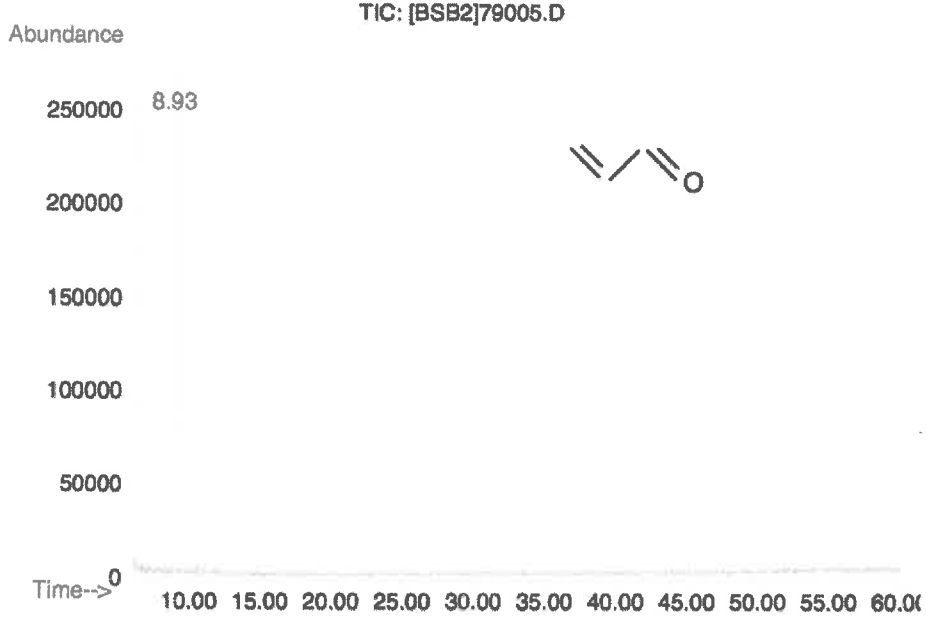
Weight(s) shown below were combined and diluted to (mL): 10.0

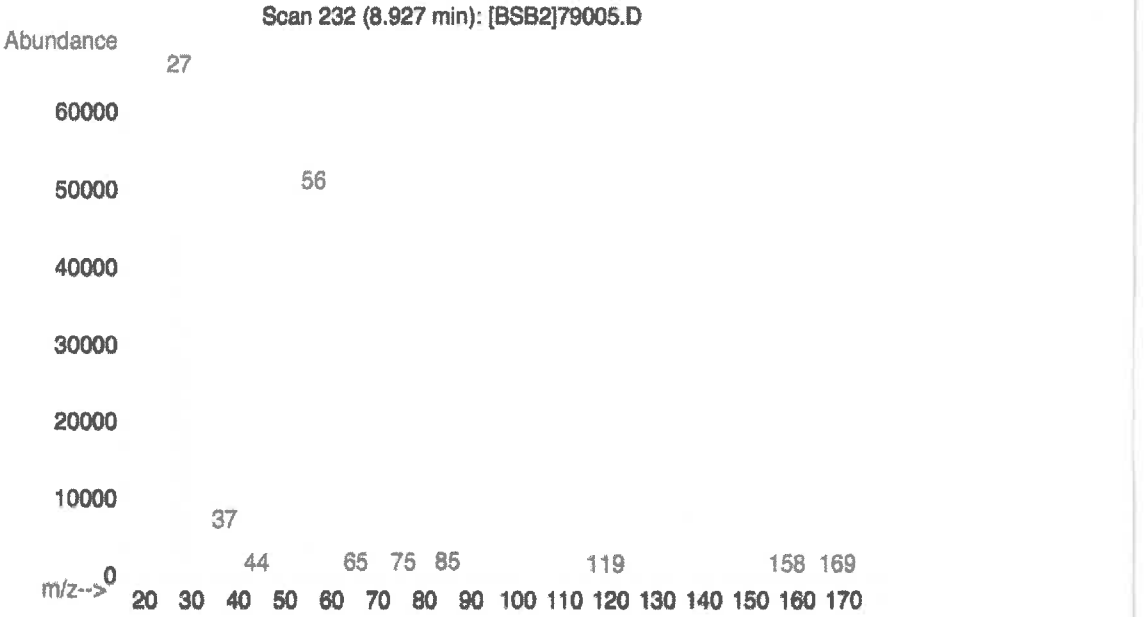
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

Rev 08/14/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

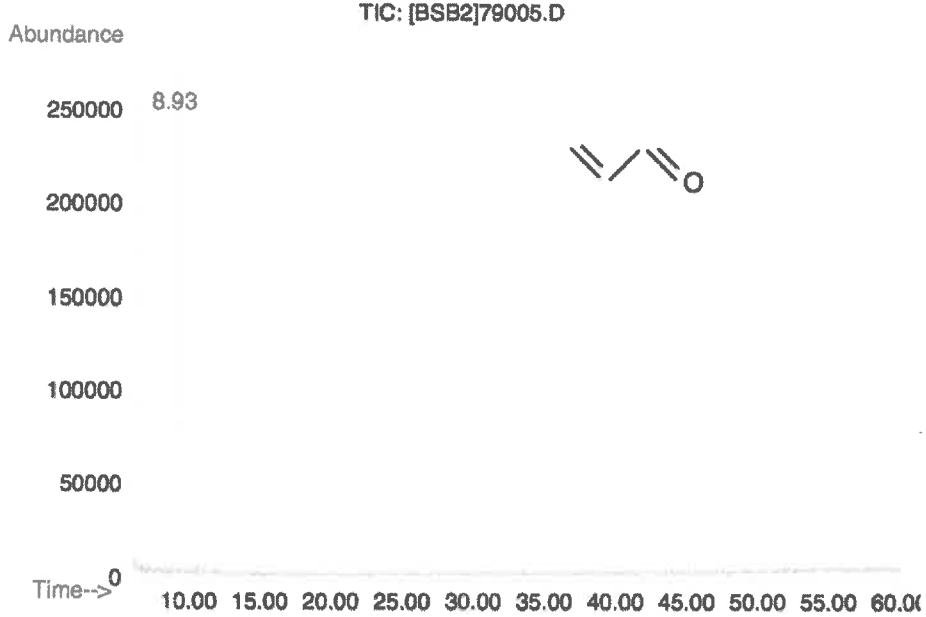
Weight(s) shown below were combined and diluted to (mL): 10.0

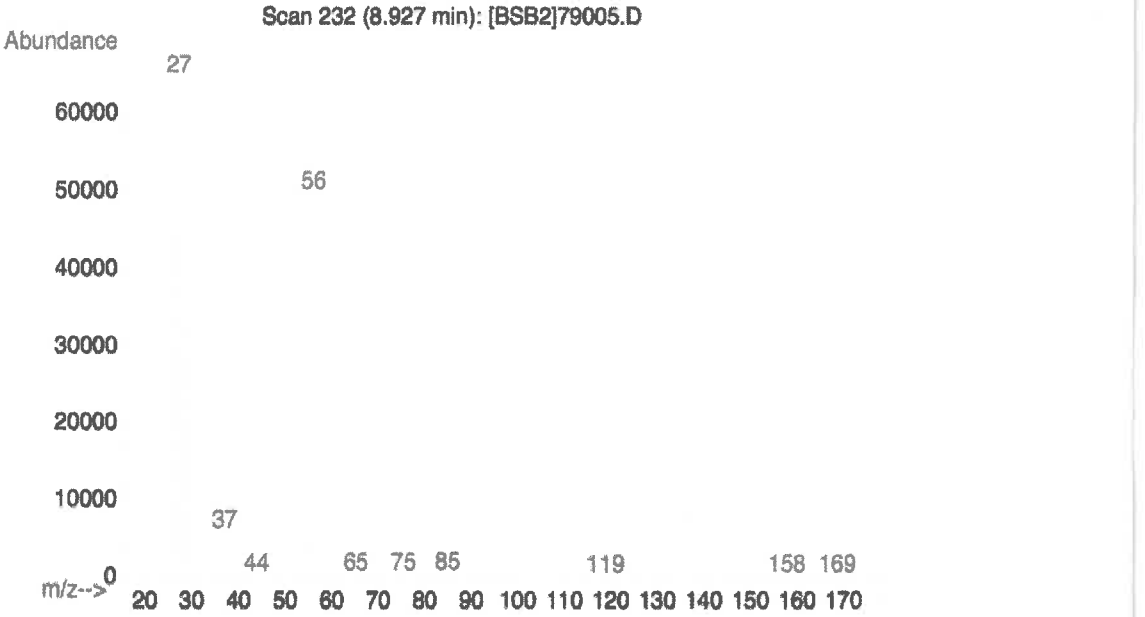
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

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

Preservation Log

BalanceID: VOA-SC-2

Review By: Amit

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)= Total Wt-Tare Wt	Vial A Time	Vial B Weight(g)= Total Wt-Tare Wt	Vial B Time	Vial C Weight(g) Preserve with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q2820-01	38.11-31.13=6.98	14:01	37.73-31.16=6.57	14:02	35.17-27.93=7.24	14:03	V14921	08/13/2025	TERRACORE SAMPLE 8260
2	Q2820-02	38.75-30.83=7.92	14:03	39.43-31.04=8.39	14:04	36.79-28.10=8.69	14:05	V14921	08/13/2025	
3	Q2820-03	38.83-31.21=7.62	14:06	38.23-31.14=7.09	14:07	35.25-28.17=7.08	14:08	V14921	08/13/2025	
4	Q2820-04	39.01-31.21=7.8	14:09	38.66-31.44=7.22	14:10	35.61-28.39=7.22	14:11	V14921	08/13/2025	
5	Q2820-05	35.84-30.91=4.93	14:11	35.43-30.90=4.53	14:14	31.76-28.31=3.45	14:15	V14921	08/13/2025	
6	Q2820-06	34.97-31.49=3.48	14:18	35.27-31.21=4.06	14:18	34.66-28.23=6.43	14:19	V14921	08/13/2025	
7	Q2820-07	37.43-31.17=6.26	14:19	37.92-31.17=6.75	14:20	34.54-28.25=6.29	14:21	V14921	08/13/2025	
8	Q2820-08	38.33-31.19=7.14	14:22	38.16-31.13=7.03	14:23	35.01-28.04=6.97	14:24	V14921	08/13/2025	
9	Q2820-09	37.56-31.16=6.4	14:25	36.52-31.13=5.39	14:26	34.43-28.37=6.06	14:27	V14921	08/13/2025	
10	Q2820-10	36.31-30.92=5.39	14:26	35.31-30.81=4.5	14:27	35.03-28.30=6.73	14:29	V14921	08/13/2025	
11	Q2820-11	37.53-31.16=6.37	14:32	37.83-31.10=6.73	14:33	34.85-28.31=6.54	14:34	V14921	08/13/2025	
12	Q2820-12	37.48-31.11=6.37	14:35	37.49-31.30=6.19	14:36	34.78-27.96=6.82	14:37	V14921	08/13/2025	
13	Q2820-13	40.42-31.29=9.13	14:38	39.79-30.82=8.97	14:39	37.31-28.21=9.1	14:40	V14921	08/13/2025	
14	Q2820-14	38.75-31.10=7.65	14:41	36.89-31.15=5.74	14:42	35.29-28.40=6.89	14:43	V14921	08/13/2025	
15	Q2820-15	37.90-30.78=7.12	14:44	38.57-30.82=7.75	14:45	35.78-28.09=7.69	14:46	V14921	08/13/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

16	Q2820-16	36.88-30.80=6.08	14:47	37.31-30.83=6.48	14:48	34.34-28.14=6.2	14:49	V14921	08/13/2025	
17	Q2820-17	37.98-31.14=6.84	14:50	38.34-31.27=7.07	14:51	36.06-28.36=7.7	14:52	V14921	08/13/2025	
18	Q2820-18	38.58-30.99=7.59	14:53	38.80-31.28=7.52	14:53	35.72-28.32=7.4	14:54	V14921	08/13/2025	
19	Q2820-19	40.38-30.75=9.63	14:55	40.34-30.83=9.51	14:56	36.62-27.97=8.65	14:57	V14921	08/13/2025	
20	Q2820-20	39.95-31.19=8.76	14:59	39.40-30.98=8.42	15:00	37.15-28.29=8.86	15:01	V14921	08/13/2025	
21	Q2820-21	38.50-30.91=7.59	15:02	39.09-31.21=7.88	15:03	36.00-28.18=7.82	15:04	V14921	08/13/2025	
22	Q2820-22	38.91-30.83=8.08	15:05	37.53-30.65=6.88	15:06	34.15-28.01=6.14	15:07	V14921	08/13/2025	
23	Q2820-23	36.12-31.28=4.84	15:08	35.60-31.15=4.45	15:09	33.13-28.29=4.84	15:09	V14921	08/13/2025	
24	Q2820-24	36.83-30.84=5.99	15:10	36.72-30.70=6.02	15:11	34.69-28.32=6.37	15:12	V14921	08/13/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2820
COC Number 2045331

CLIENT INFORMATION (REPORT TO BE SENT TO:)
COMPANY:
ADDRESS: See page 1
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION
☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☒ EDD FORMAT NYSDEC

ANALYSIS
1: VOC/SVOC 2 3: Pest/PCB 4: Metals 5 6 7 8* 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	82H - S	S	C		8/6/25	1215	5	X									
2.	82H - W					1230		X									
3.	82H - N					1250		X									
4.	SOIL - DUP - 1				8/6/25			X									
5.	518R - E				8/7/25	0900		X									
6.	518R - N					0940		X									
7.	518R - S					0930		X									
8.	518R - W					0950	5	X									
9.	705R - S					1100	7	X	X	X							
10.	SOIL - DUP - 2						7	X	X	X							

Specify Preservatives: A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GMC	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.9c °C
Comments:

Page 3 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2820
COC Number 2045332

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS: See page 1
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☒ EDD FORMAT NYSDEC

ANALYSIS

1: VOC / SVOC
2: Pest / PCB
3: Metals
4
5
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	10PC-W	S	C		8/7/25	1235	5	X									
2.	10PC-S					1240		X									
3.	10P-W					1255		X									
4.	10P-E					1300		X									
5.	10P-S					1320		X									
6.	10P-N					1330		X									
7.	88H-E				8/8/25	0825		X									
8.	88H-N					0840		X									
9.	88H-W					0850		X									
10.	88H-S					0900		X									

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GML	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.7C °C
Comments:

Page 4 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP

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(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2820
COC Number 2045333

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY:
ADDRESS: See Page 1
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☒ EDD FORMAT NYSDEC

ANALYSIS

1: VOC / SVOC 2: Pest / PCB 3. Metals 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	22M-N	S	C		8/8/25	1125	5	X									
2.	22M-W					1050	5	X									
3.	22M-E					1115	5	X									
4.	22M-S					1100	7	X	X	X							
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GMC	6:01	1. 2-8-25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.9°C °C
Comments:

Page 5 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2820 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:29:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2820-01	82H-S	Solid	08/06/2025	12:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-02	82H-W	Solid	08/06/2025	12:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-03	82H-N	Solid	08/06/2025	12:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-04	SOIL-DUP-1	Solid	08/06/2025	00:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-05	518R-E	Solid	08/07/2025	09:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-06	518R-N	Solid	08/07/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-07	518R-S	Solid	08/07/2025	09:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-08	518R-W	Solid	08/07/2025	09:50					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2820 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:29:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-09	705R-S	Solid	08/07/2025	11:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-10	SOIL-DUP-2	Solid	08/07/2025	00:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-11	10PC-W	Solid	08/07/2025	12:35						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-12	10PC-S	Solid	08/07/2025	12:40						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-13	10P-W	Solid	08/07/2025	12:55						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-14	10P-E	Solid	08/07/2025	13:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2820-15	10P-S	Solid	08/07/2025	13:20						
					VOC-TCLVOA-10		8260D	10 Bus. Days		

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2820 FIRS02
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Client Contact : Al Smith
Invoice Name : First Environment, Inc.
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Order Date : 8/11/2025 12:29:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2820-16	10P-N	Solid	08/07/2025	13:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-17	88H-E	Solid	08/08/2025	08:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-18	88H-N	Solid	08/08/2025	08:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-19	88H-W	Solid	08/08/2025	08:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-20	88H-S	Solid	08/08/2025	09:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-21	22M-N	Solid	08/08/2025	11:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-22	22M-W	Solid	08/08/2025	10:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2820-23	22M-E	Solid	08/08/2025	11:15					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2820 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:29:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2820-24	22M-S	Solid	08/08/2025	11:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 8-11-25 1450

Received By :
Date / Time : 08/11/25 14:50

Storage Area : **VOA Refridgerator Room**

2 #6
5 2 2

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	225574	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	424617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	391234	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	196943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	16827	5.158	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 10.320%#			
35) Dibromofluoromethane	7.898	113	14278	5.205	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 10.400%#			
50) Toluene-d8	10.331	98	49876	4.916	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	12.617	95	18184	4.863	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 9.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	9007	5.583	ug/l	100
3) Chloromethane	2.253	50	12377	5.695	ug/l	95
4) Vinyl Chloride	2.399	62	14029	5.337	ug/l	91
5) Bromomethane	2.826	94	10878	5.516	ug/l	95
6) Chloroethane	2.966	64	9219	5.300	ug/l	98
7) Trichlorofluoromethane	3.302	101	12298	5.840	ug/l	94
8) Diethyl Ether	3.716	74	8824	5.114	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	13903	5.596	ug/l	94
10) Methyl Iodide	4.301	142	17789	5.050	ug/l	99
11) Tert butyl alcohol	5.222	59	5328	25.221	ug/l	94
12) 1,1-Dichloroethene	4.076	96	14655	5.357	ug/l	94
13) Acrolein	3.929	56	9831	29.207	ug/l	89
14) Allyl chloride	4.698	41	19999	5.023	ug/l	98
15) Acrylonitrile	5.399	53	20340	24.751	ug/l	99
16) Acetone	4.161	43	22915	30.337	ug/l	99
17) Carbon Disulfide	4.417	76	38213	5.204	ug/l	96
18) Methyl Acetate	4.704	43	10943	4.578	ug/l #	76
19) Methyl tert-butyl Ether	5.460	73	23062	4.785	ug/l	99
20) Methylene Chloride	4.954	84	23529	6.737	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	14671	5.053	ug/l	93
22) Diisopropyl ether	6.338	45	38895	4.634	ug/l	94
23) Vinyl Acetate	6.283	43	124477	22.588	ug/l	98
24) 1,1-Dichloroethane	6.246	63	26909	5.018	ug/l	99
25) 2-Butanone	7.197	43	26284	24.484	ug/l	100
26) 2,2-Dichloropropane	7.185	77	14330	5.326	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	16041	4.727	ug/l	98
28) Bromochloromethane	7.526	49	12660	5.188	ug/l	98
29) Tetrahydrofuran	7.551	42	16965	23.963	ug/l	96
30) Chloroform	7.691	83	28586	5.028	ug/l	99
31) Cyclohexane	7.959	56	26393	5.677	ug/l #	83
32) 1,1,1-Trichloroethane	7.880	97	21662	5.246	ug/l	96
36) 1,1-Dichloropropene	8.099	75	19468	5.034	ug/l	99
37) Ethyl Acetate	7.276	43	11365	4.990	ug/l	99
38) Carbon Tetrachloride	8.081	117	18734	5.020	ug/l	92
39) Methylcyclohexane	9.337	83	22284	4.728	ug/l	94
40) Benzene	8.331	78	59395	4.941	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	5910	4.576	ug/l	#	95
42) 1,2-Dichloroethane	8.410	62	19560	5.085	ug/l		99
43) Isopropyl Acetate	8.435	43	19928	4.756	ug/l		98
44) Trichloroethene	9.093	130	14999	5.240	ug/l		93
45) 1,2-Dichloropropane	9.374	63	14387	4.954	ug/l		98
46) Dibromomethane	9.465	93	9753	5.204	ug/l		97
47) Bromodichloromethane	9.648	83	21279	4.927	ug/l		100
48) Methyl methacrylate	9.441	41	8949	4.424	ug/l		97
49) 1,4-Dioxane	9.465	88	2259	93.217	ug/l	#	85
51) 4-Methyl-2-Pentanone	10.215	43	56184	23.755	ug/l		98
52) Toluene	10.386	92	35525	4.692	ug/l		96
53) t-1,3-Dichloropropene	10.611	75	18259	4.513	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	21173	4.612	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	12594	5.057	ug/l		95
56) Ethyl methacrylate	10.648	69	14387	4.317	ug/l		95
57) 1,3-Dichloropropane	10.934	76	21654	4.988	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	41991	22.777	ug/l		98
59) 2-Hexanone	10.971	43	37796	23.074	ug/l		95
60) Dibromochloromethane	11.129	129	13654	4.799	ug/l		98
61) 1,2-Dibromoethane	11.239	107	11992	4.955	ug/l		100
64) Tetrachloroethene	10.861	164	11449	5.066	ug/l		93
65) Chlorobenzene	11.654	112	43515	5.110	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.733	131	13037	4.907	ug/l		98
67) Ethyl Benzene	11.727	91	67071	4.650	ug/l		97
68) m/p-Xylenes	11.837	106	50482	9.070	ug/l		96
69) o-Xylene	12.166	106	22602	4.393	ug/l		97
70) Styrene	12.178	104	39288	4.300	ug/l		98
71) Bromoform	12.349	173	7283	4.792	ug/l	#	95
73) Isopropylbenzene	12.458	105	57306	4.164	ug/l		98
74) N-amyl acetate	12.269	43	16327	4.135	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.708	83	15805	4.836	ug/l		98
76) 1,2,3-Trichloropropane	12.763	75	19129	6.318	ug/l		57
77) Bromobenzene	12.745	156	14698	4.471	ug/l		97
78) n-propylbenzene	12.800	91	72140	4.257	ug/l		99
79) 2-Chlorotoluene	12.885	91	46879	4.483	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	49607	4.245	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.513	75	4520	4.378	ug/l		92
82) 4-Chlorotoluene	12.983	91	50782	4.570	ug/l		100
83) tert-Butylbenzene	13.202	119	39993	4.124	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	49891	4.194	ug/l		100
85) sec-Butylbenzene	13.379	105	64254	4.382	ug/l		98
86) p-Isopropyltoluene	13.495	119	51939	4.249	ug/l		97
87) 1,3-Dichlorobenzene	13.495	146	30445	4.654	ug/l		94
88) 1,4-Dichlorobenzene	13.574	146	32554	4.925	ug/l		95
89) n-Butylbenzene	13.818	91	51328	4.323	ug/l		99
90) Hexachloroethane	14.086	117	10372	4.640	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	28653	4.836	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	2976	5.123	ug/l		93
93) 1,2,4-Trichlorobenzene	15.123	180	15646	4.414	ug/l		99
94) Hexachlorobutadiene	15.226	225	8109	5.118	ug/l		98
95) Naphthalene	15.360	128	34667	3.991	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	14053	4.357	ug/l		92

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

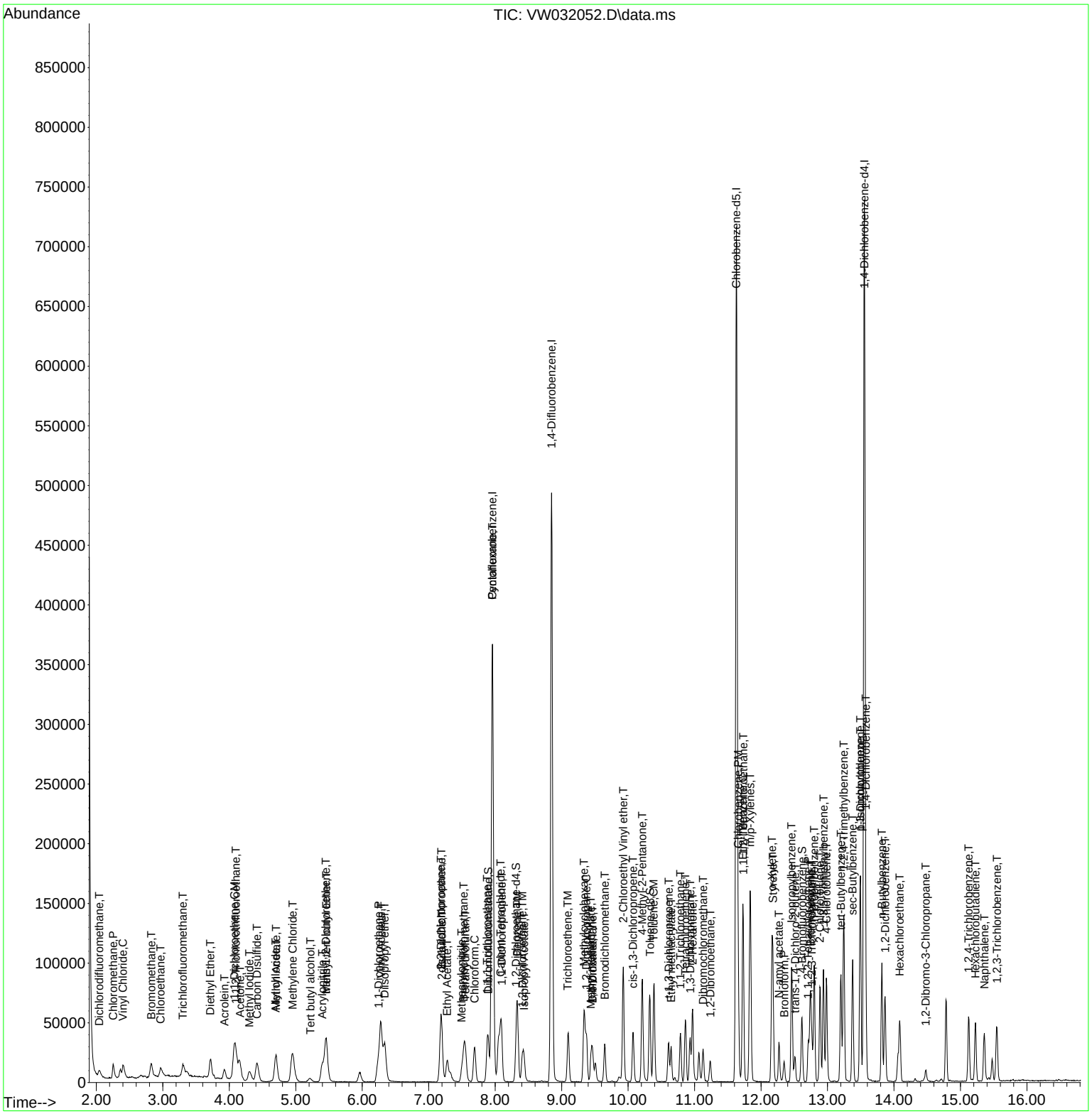
(#) = qualifier out of range (m) = manual integration (+) = signals summed

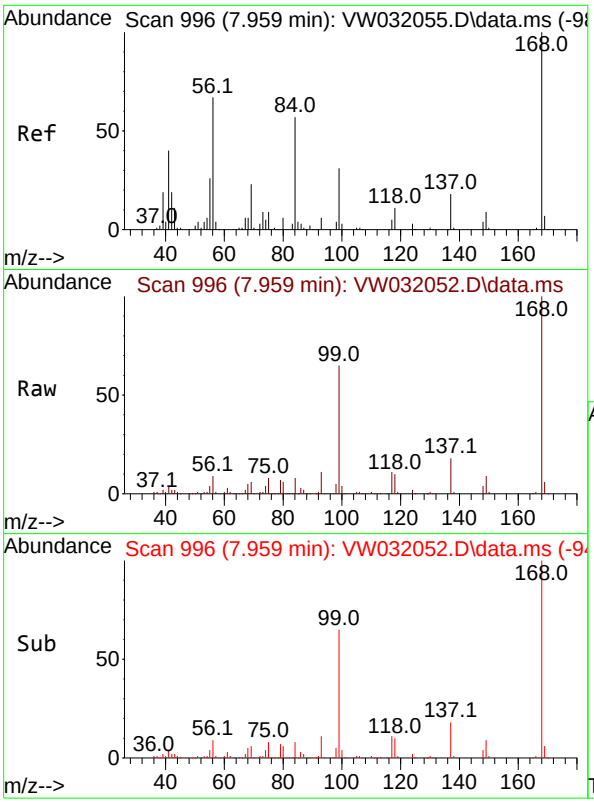
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



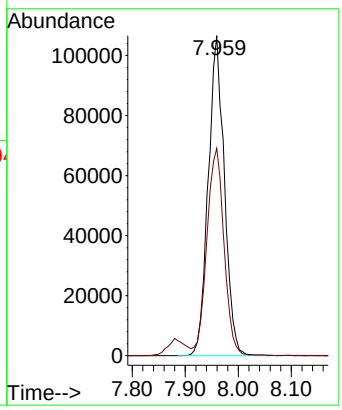


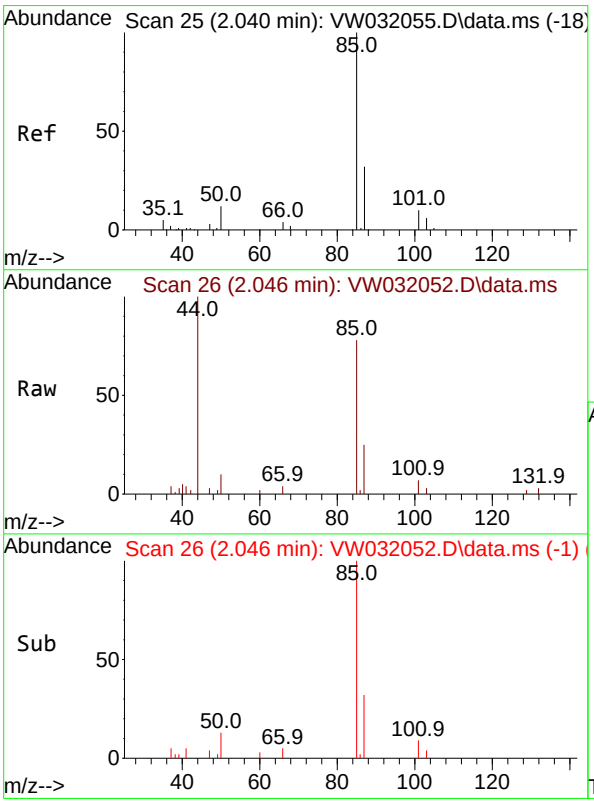
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 225574

Ion	Ratio	Lower	Upper
168	100		
99	64.7	56.0	84.0

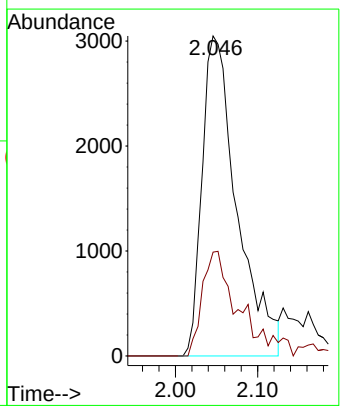


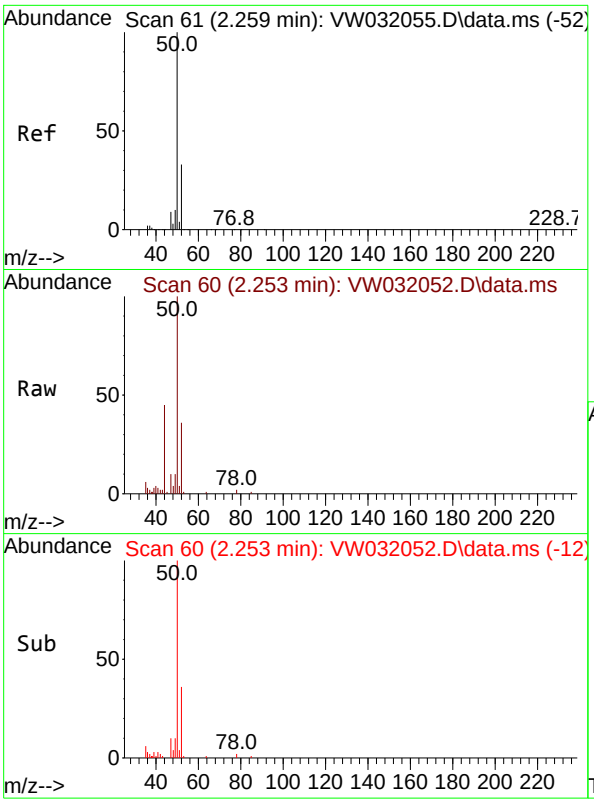


#2
Dichlorodifluoromethane
Concen: 5.583 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 85 Resp: 9007

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.2	48.6



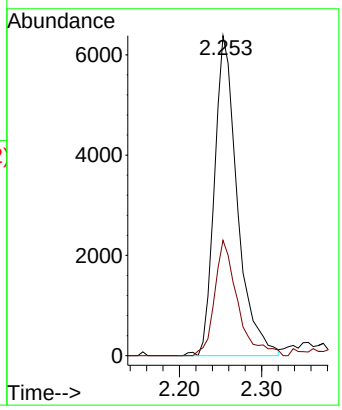


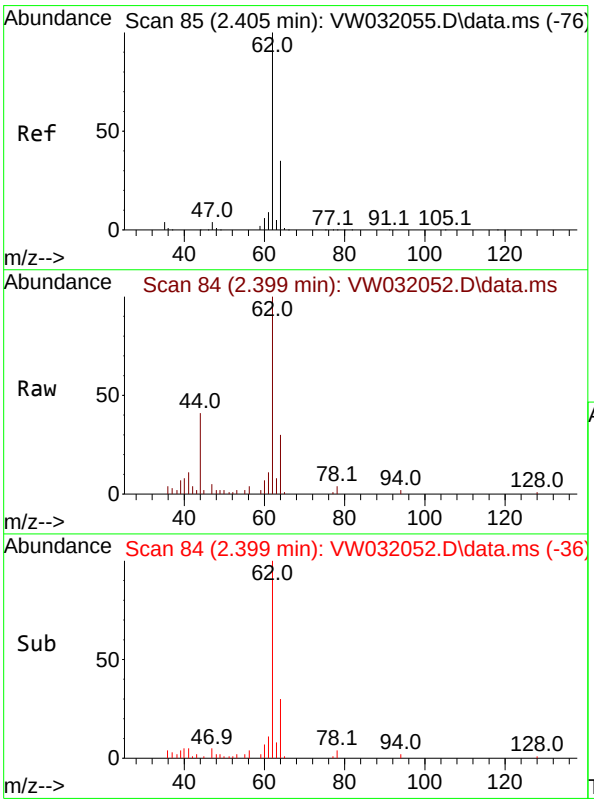
#3
Chloromethane
Concen: 5.695 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 12377

Ion	Ratio	Lower	Upper
50	100		
52	36.1	26.6	39.8

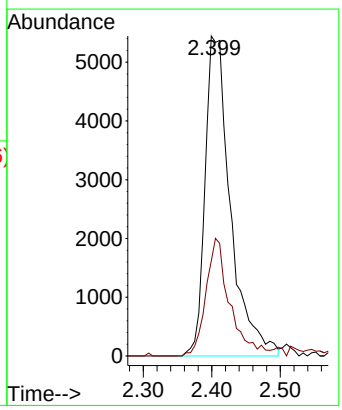


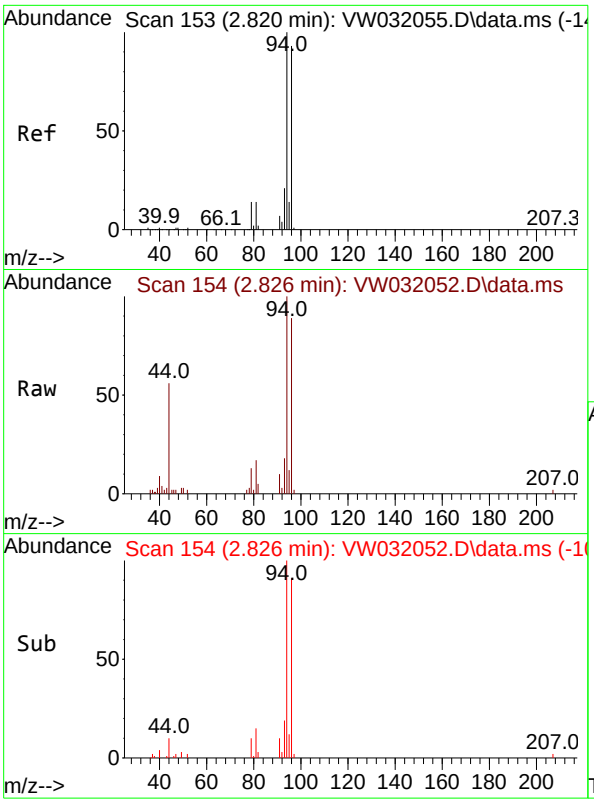


#4
Vinyl Chloride
Concen: 5.337 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 14029

Ion	Ratio	Lower	Upper
62	100		
64	29.8	27.8	41.6



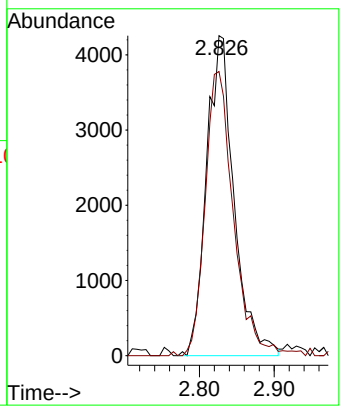


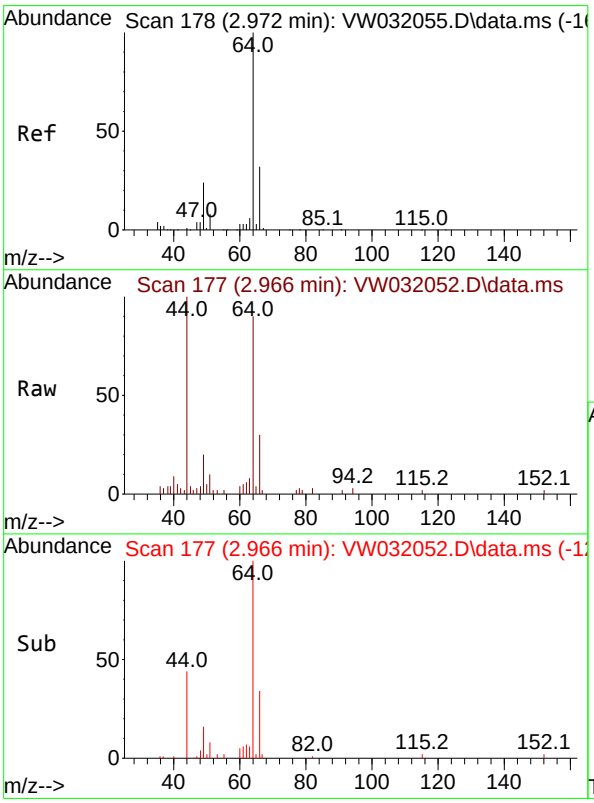
#5
Bromomethane
Concen: 5.516 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 10878

Ion	Ratio	Lower	Upper
94	100		
96	88.8	74.7	112.1

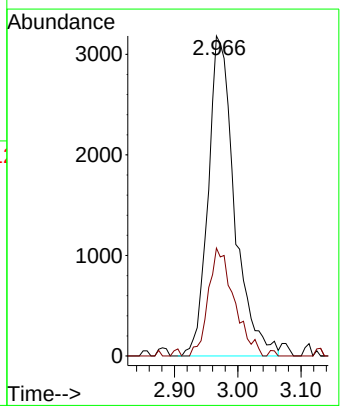


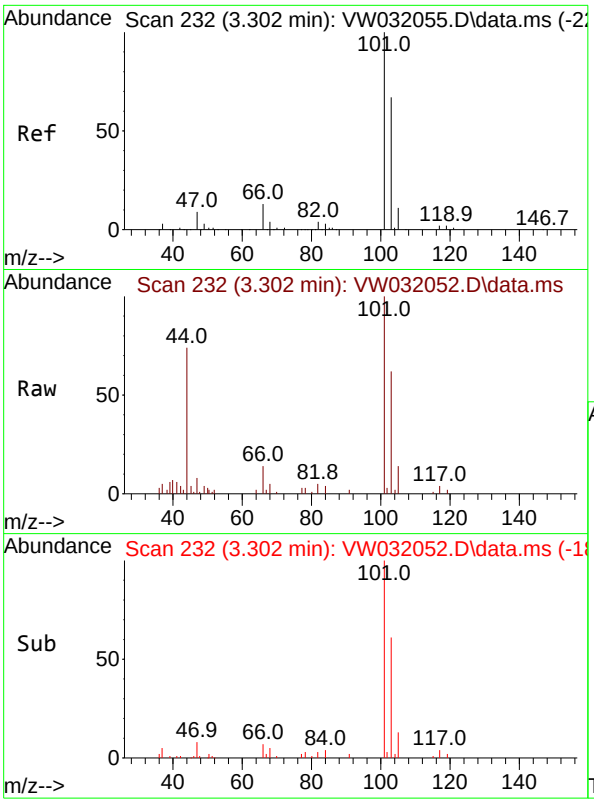


#6
Chloroethane
Concen: 5.300 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 64 Resp: 9219

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.0	39.0



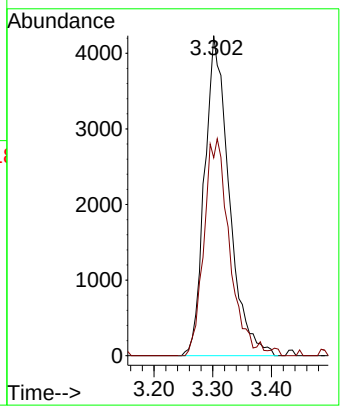


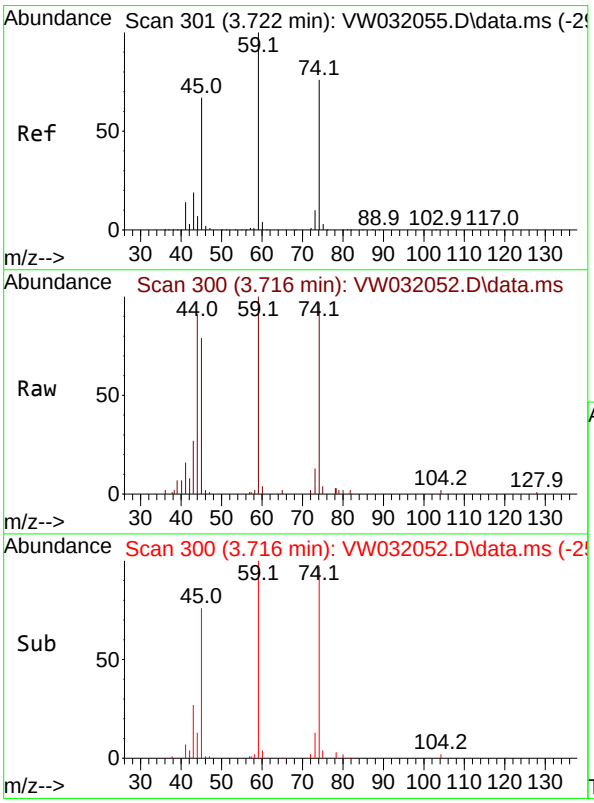
#7
Trichlorofluoromethane
Concen: 5.840 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 12298

Ion	Ratio	Lower	Upper
101	100		
103	61.8	53.4	80.0

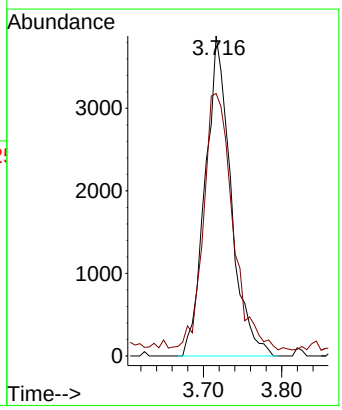


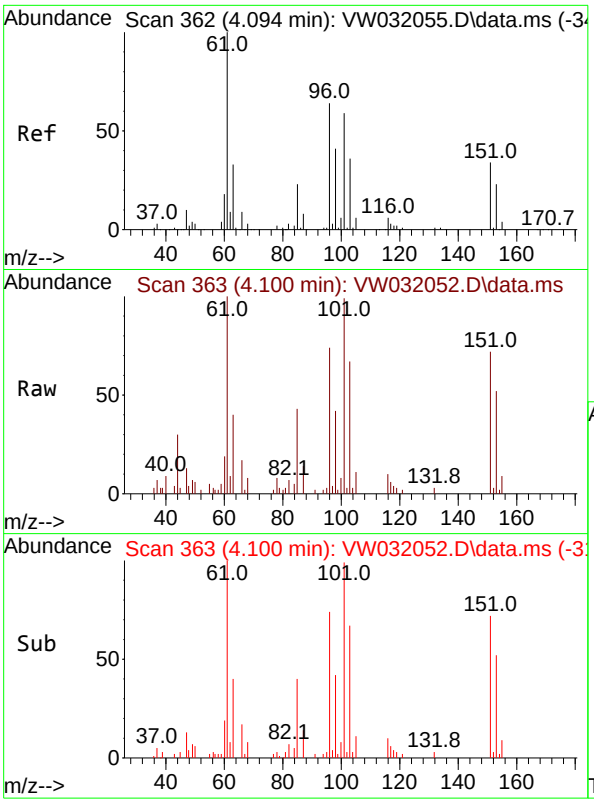


#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 74 Resp: 8824

Ion	Ratio	Lower	Upper
74	100		
45	92.8	45.4	136.2



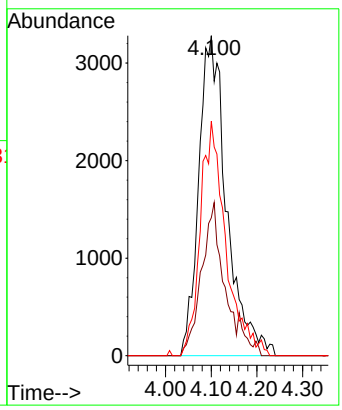


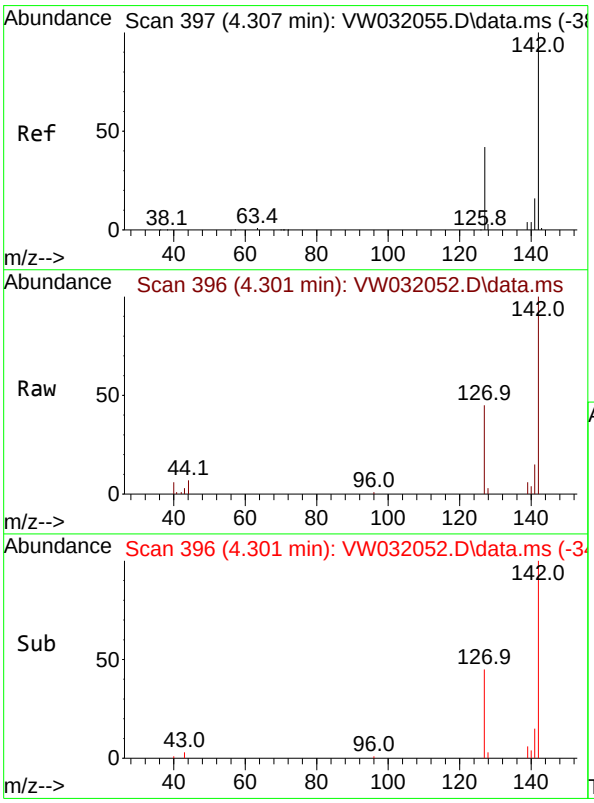
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.596 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 13903

Ion	Ratio	Lower	Upper
101	100		
85	36.9	34.9	52.3
151	67.0	56.2	84.4

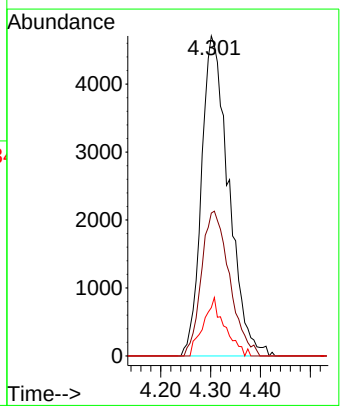


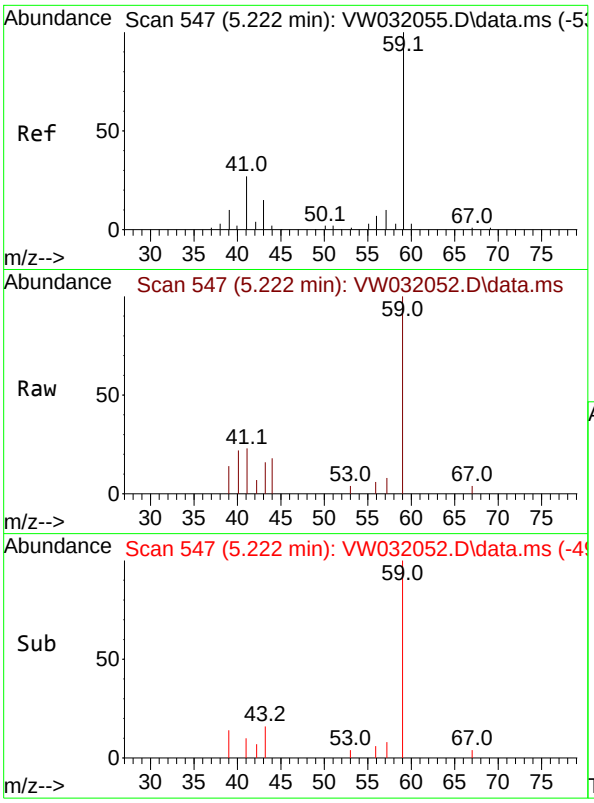


#10
Methyl Iodide
Concen: 5.050 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:142 Resp: 17789

Ion	Ratio	Lower	Upper
142	100		
127	46.8	36.6	55.0
141	14.6	12.1	18.1



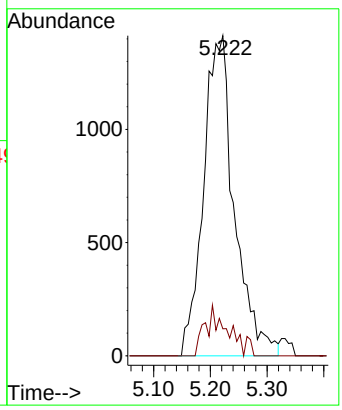


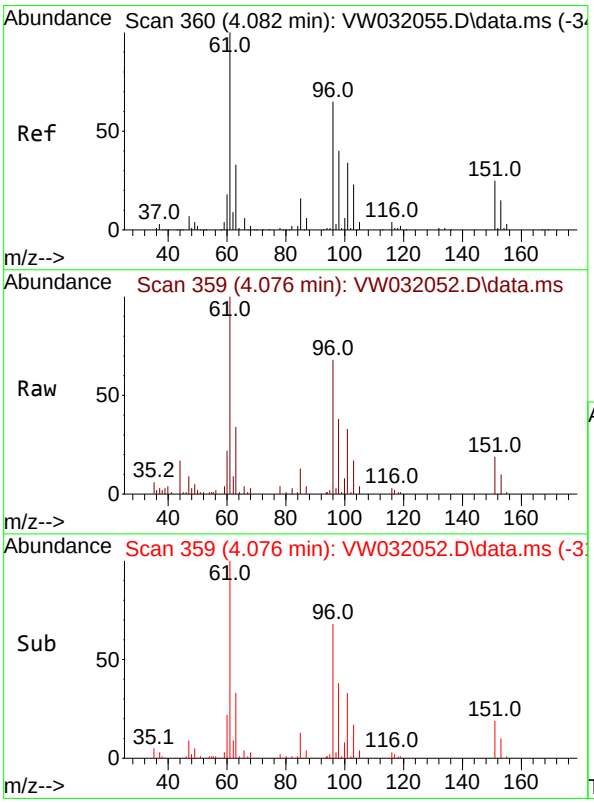
#11
Tert butyl alcohol
Concen: 25.221 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 5328

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.7	13.1

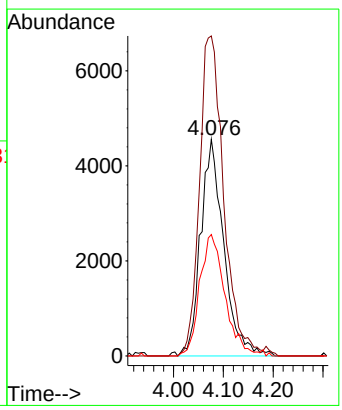


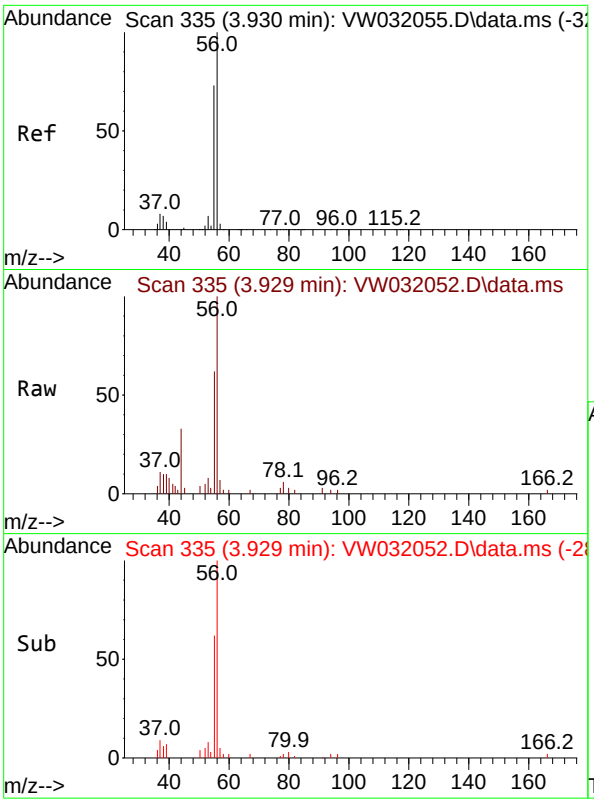


#12
1,1-Dichloroethene
Concen: 5.357 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 14655

Ion	Ratio	Lower	Upper
96	100		
61	147.7	123.4	185.2
98	56.0	49.5	74.3



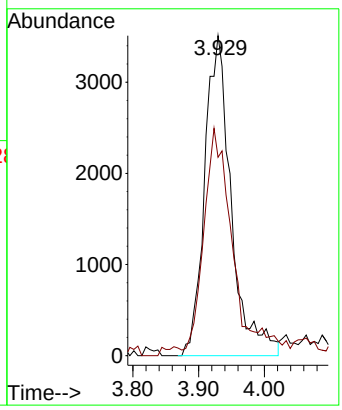


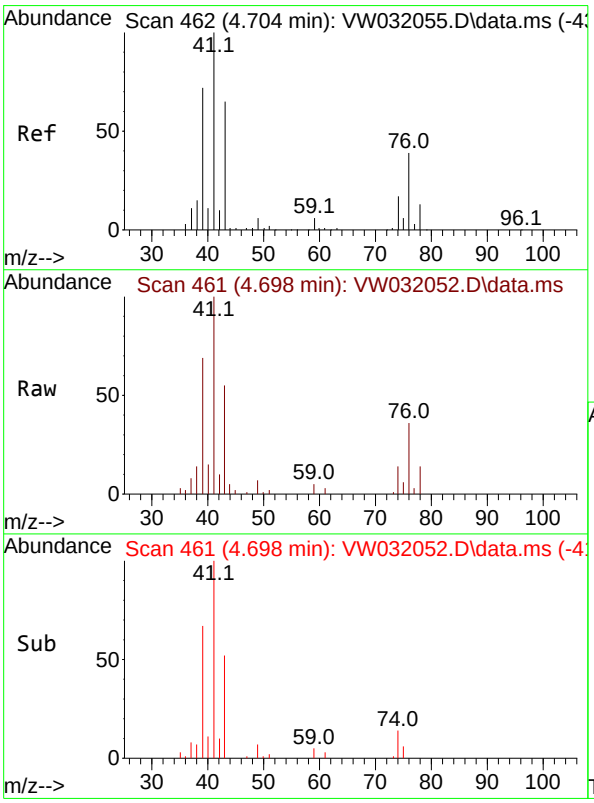
#13
Acrolein
Concen: 29.207 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 9831

Ion	Ratio	Lower	Upper
56	100		
55	78.5	55.4	83.2

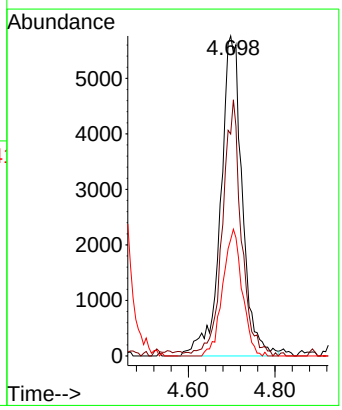


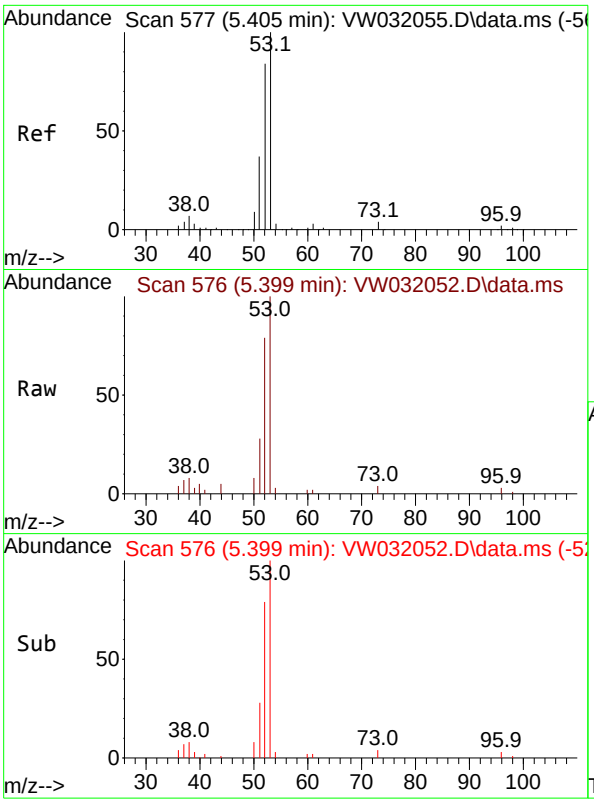


#14
Allyl chloride
Concen: 5.023 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 19999

Ion	Ratio	Lower	Upper
41	100		
39	70.2	54.5	81.7
76	35.7	29.3	43.9



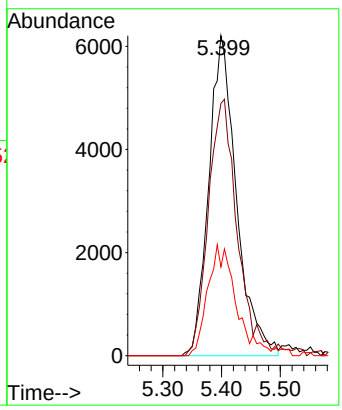


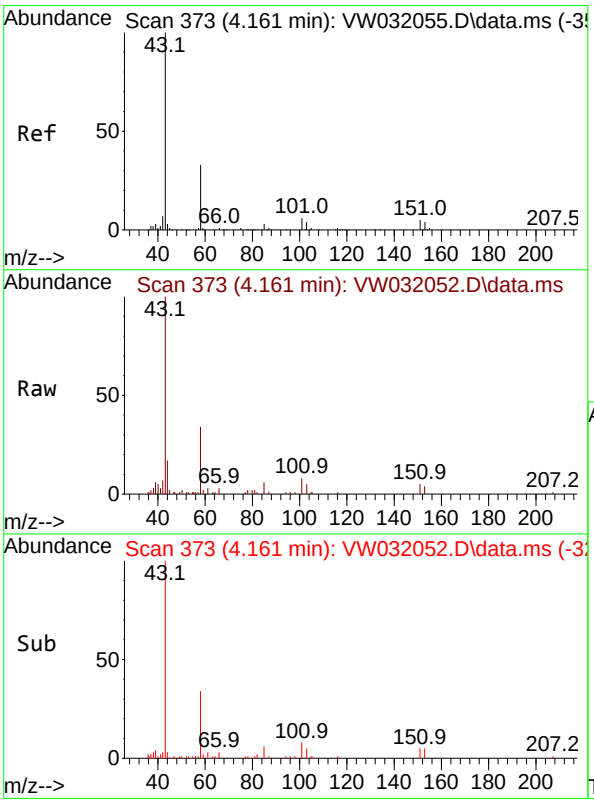
#15
Acrylonitrile
Concen: 24.751 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 20340

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.1	99.1
51	35.2	29.2	43.8

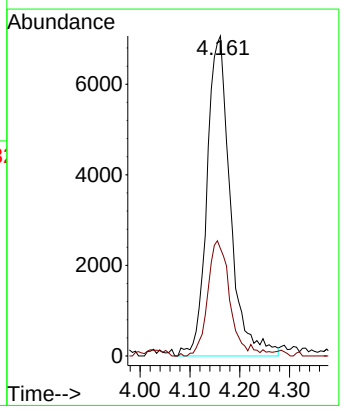


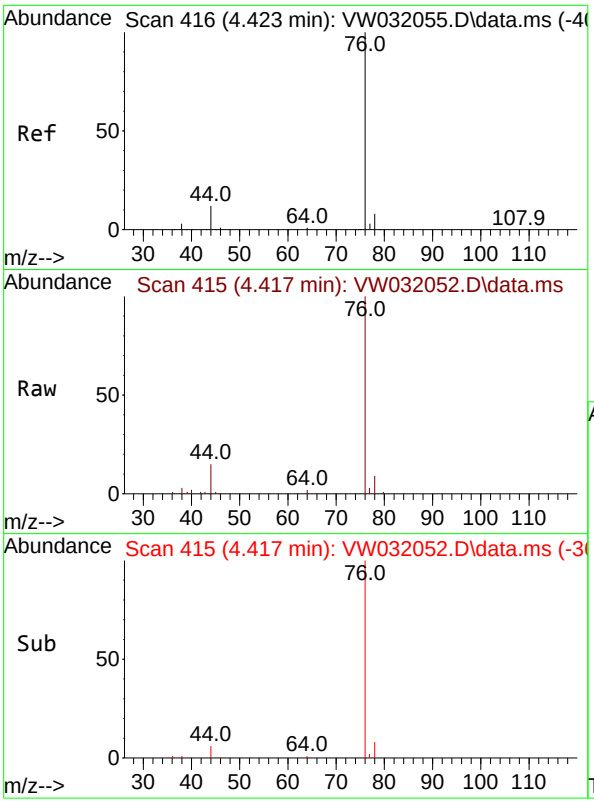


#16
Acetone
Concen: 30.337 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 22915

Ion	Ratio	Lower	Upper
43	100		
58	33.5	26.6	39.8



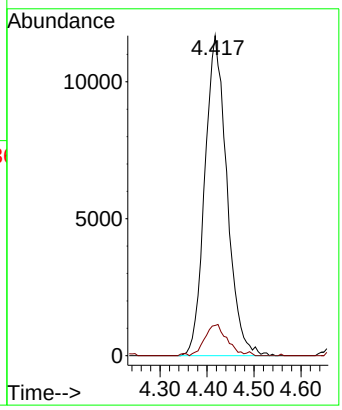


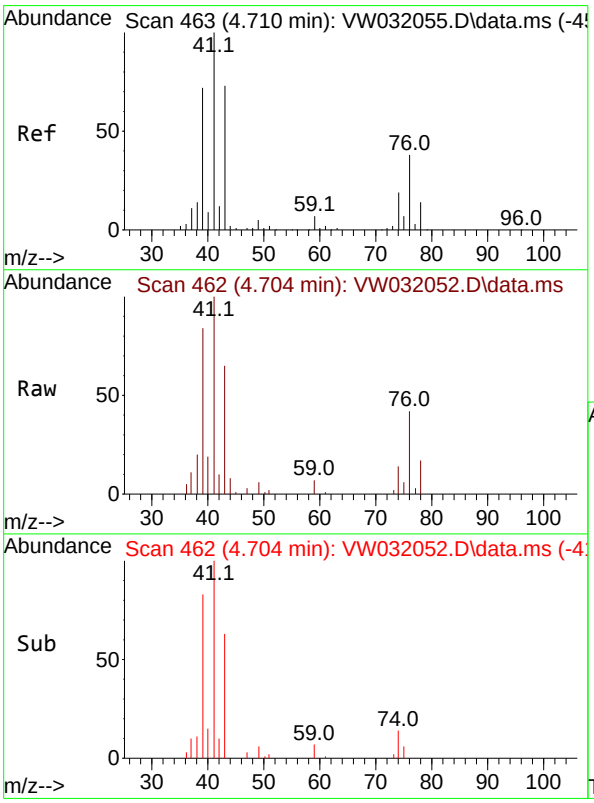
#17
Carbon Disulfide
Concen: 5.204 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 38213

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.4	9.6

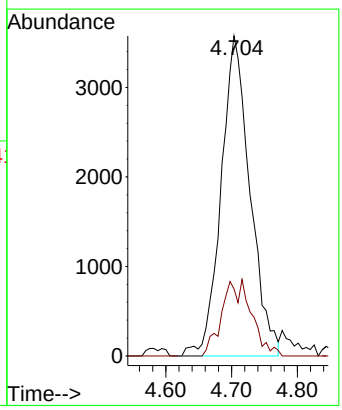


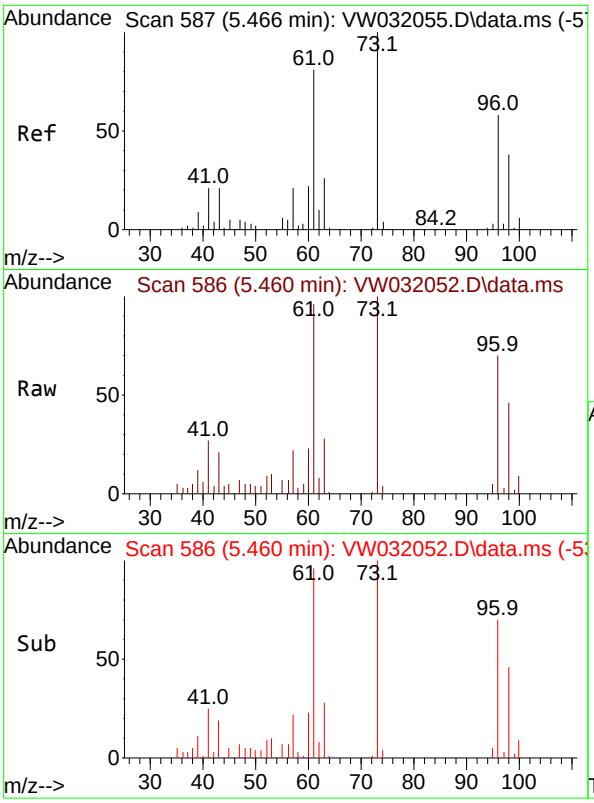


#18
Methyl Acetate
Concen: 4.578 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 10943

Ion	Ratio	Lower	Upper
43	100		
74	13.7	20.6	31.0#



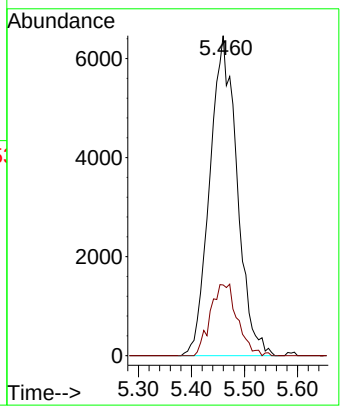


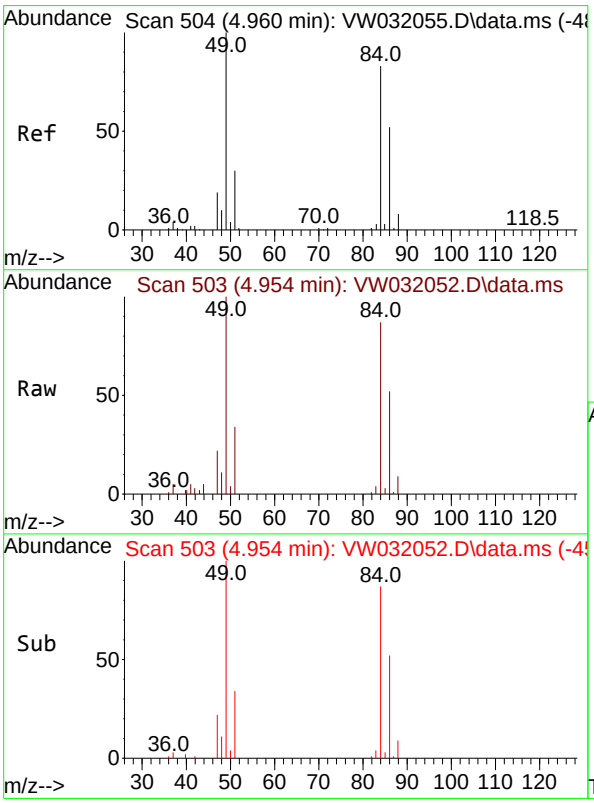
#19
Methyl tert-butyl Ether
Concen: 4.785 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 23062

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.2	25.8

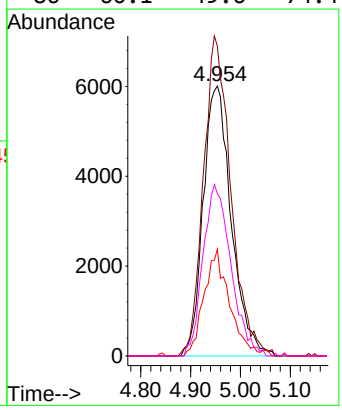


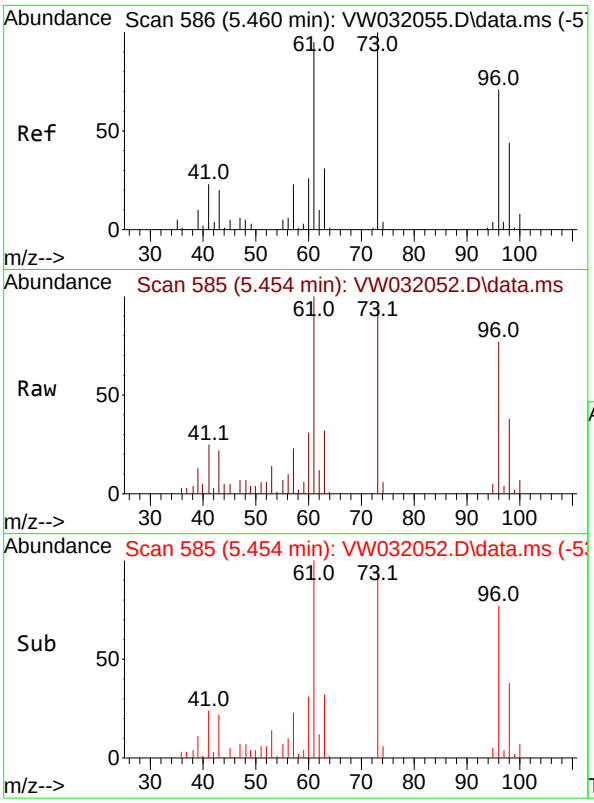


#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 84 Resp: 23529

Ion	Ratio	Lower	Upper
84	100		
49	114.8	95.9	143.9
51	39.6	28.6	43.0
86	60.1	49.6	74.4



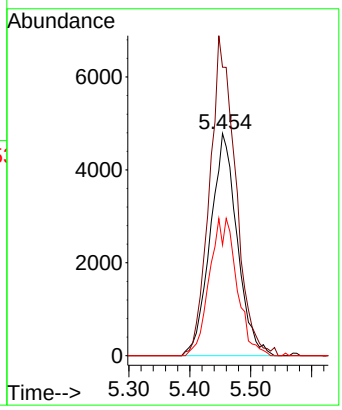


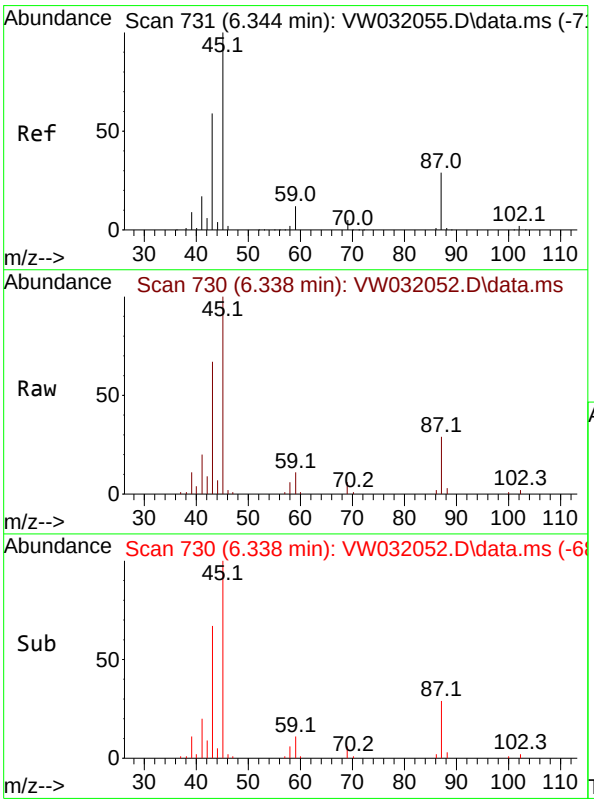
#21
trans-1,2-Dichloroethene
Concen: 5.053 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 14671

Ion	Ratio	Lower	Upper
96	100		
61	129.9	106.8	160.2
98	49.8	49.6	74.4

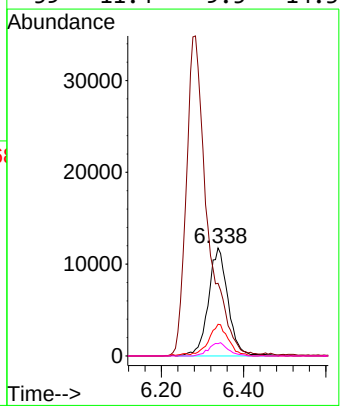


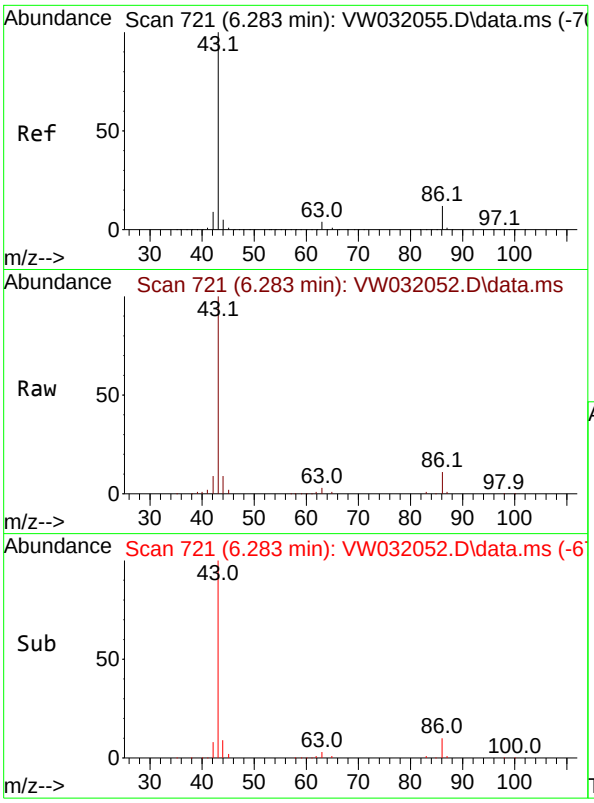


#22
Diisopropyl ether
Concen: 4.634 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 45 Resp: 38895

Ion	Ratio	Lower	Upper
45	100		
43	66.3	47.0	70.4
87	29.4	23.8	35.8
59	11.4	9.5	14.3



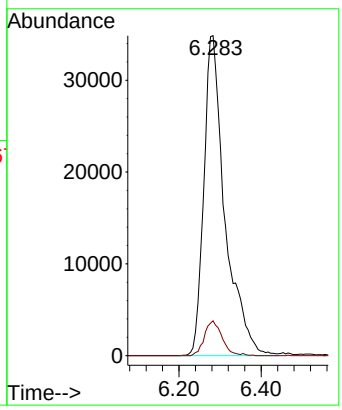


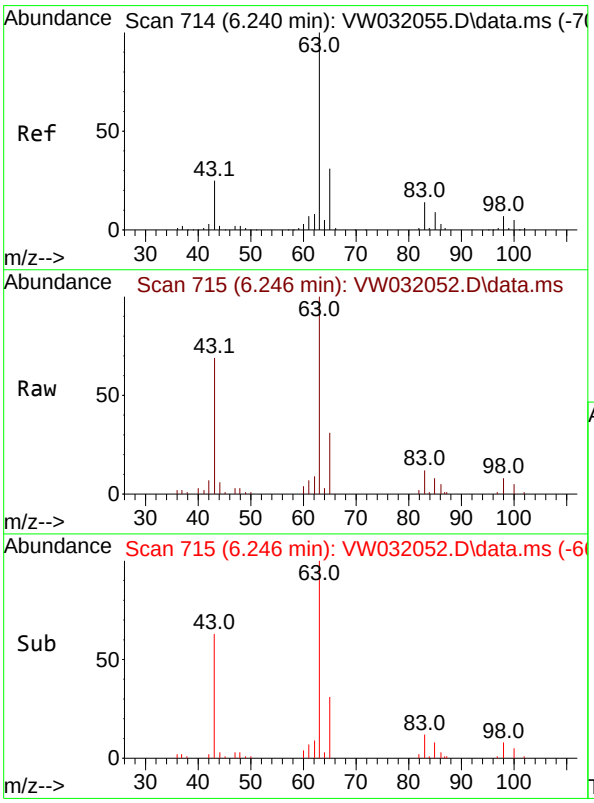
#23
Vinyl Acetate
Concen: 22.588 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 124477

Ion	Ratio	Lower	Upper
43	100		
86	10.9	9.4	14.0

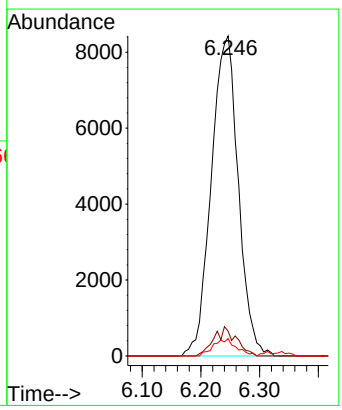


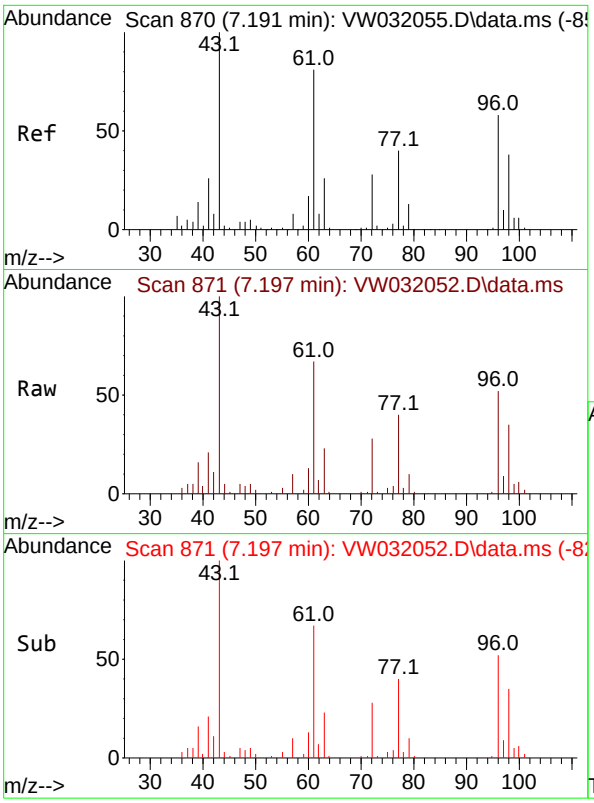


#24
1,1-Dichloroethane
Concen: 5.018 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 26909

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.7	11.1
100	5.4	2.5	7.4



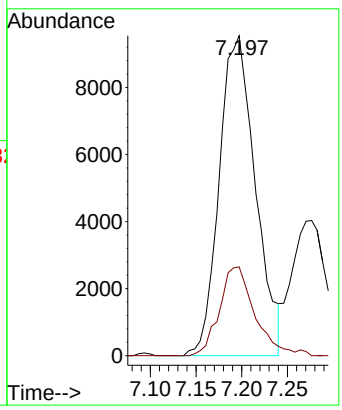


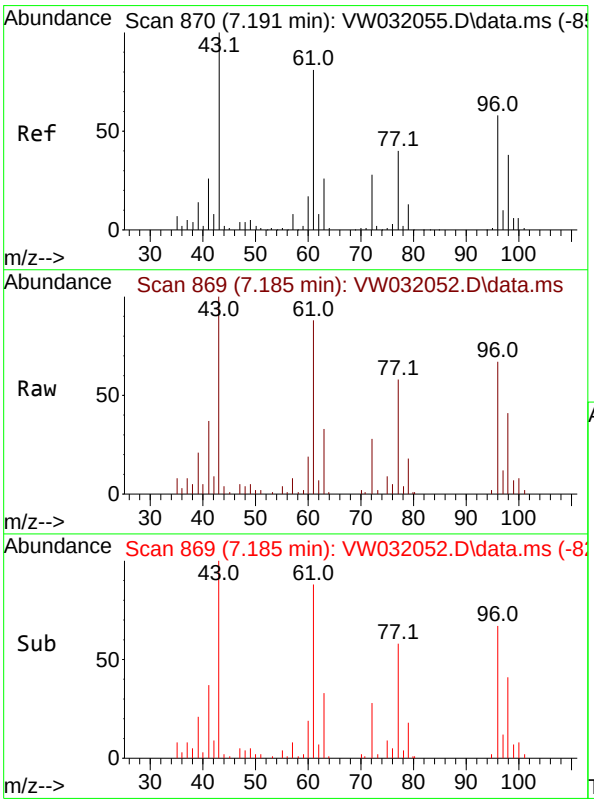
#25
2-Butanone
Concen: 24.484 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 26284

Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.3	33.5

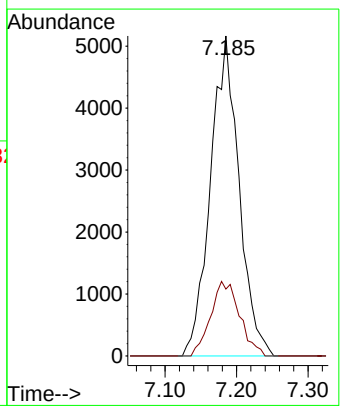


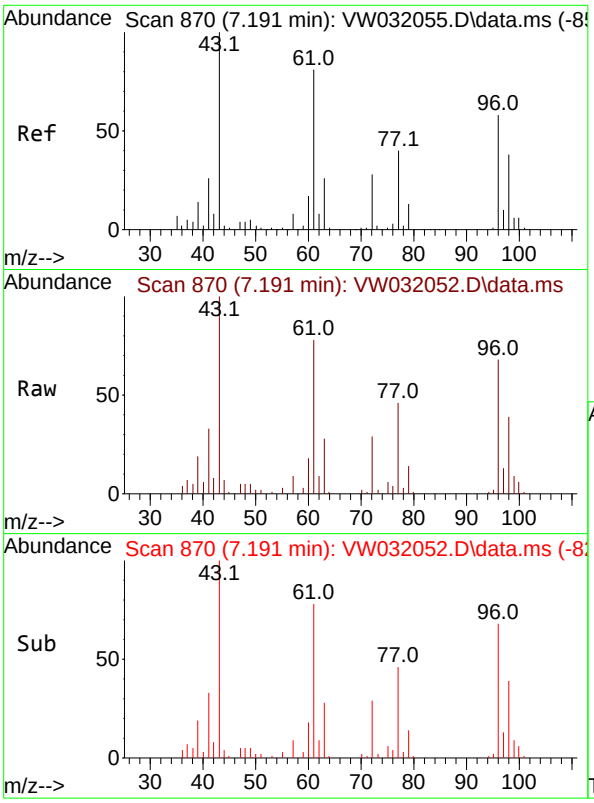


#26
2,2-Dichloropropane
Concen: 5.326 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 77 Resp: 14330

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.3	36.9



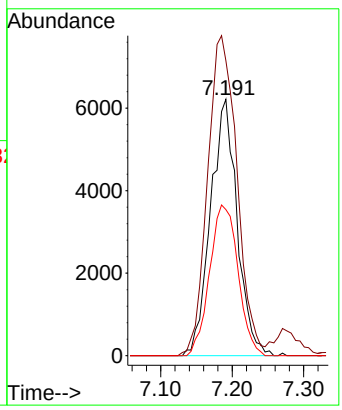


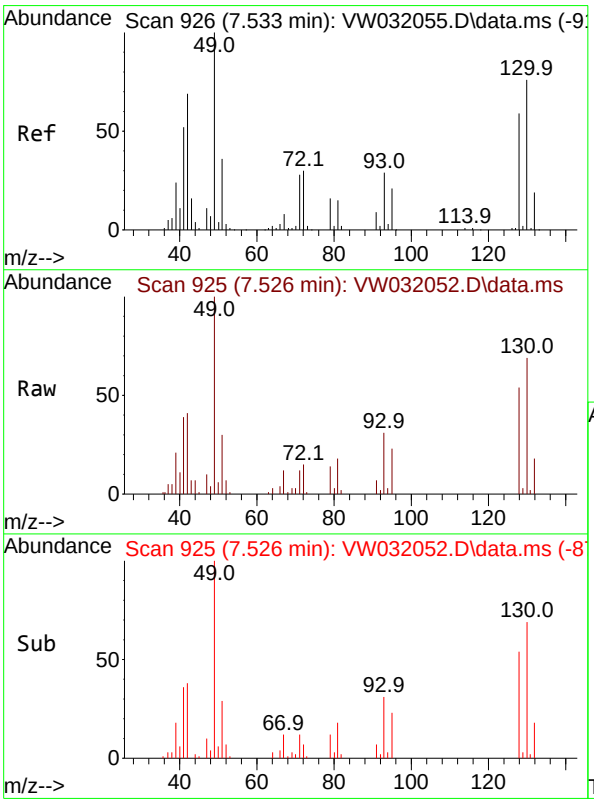
#27
cis-1,2-Dichloroethene
Concen: 4.727 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 16041

Ion	Ratio	Lower	Upper
96	100		
61	138.1	0.0	281.2
98	62.9	0.0	130.8

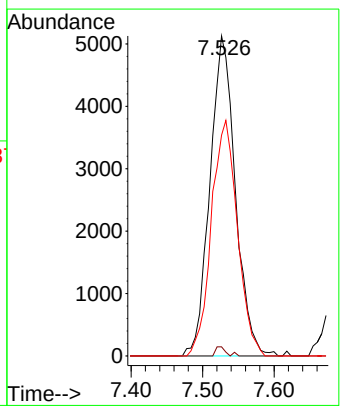


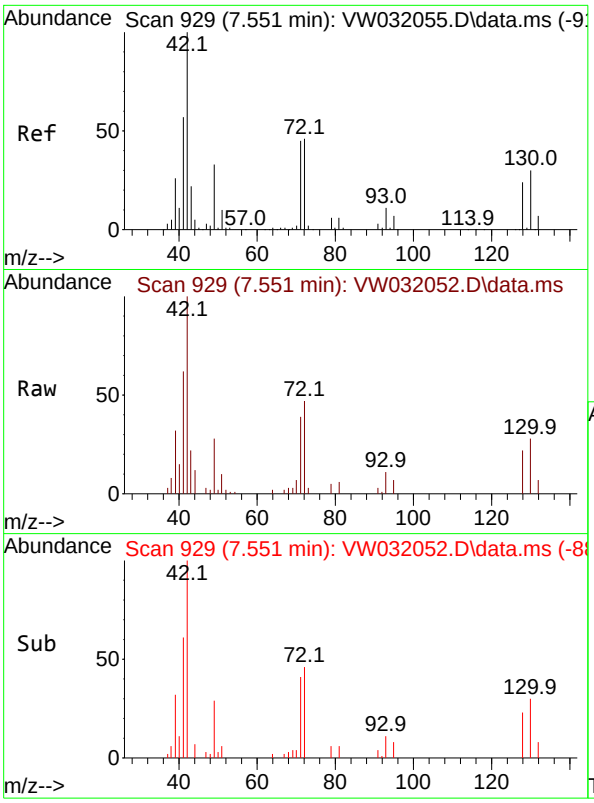


#28
Bromochloromethane
Concen: 5.188 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 49 Resp: 12660

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.2
130	75.4	61.9	92.9



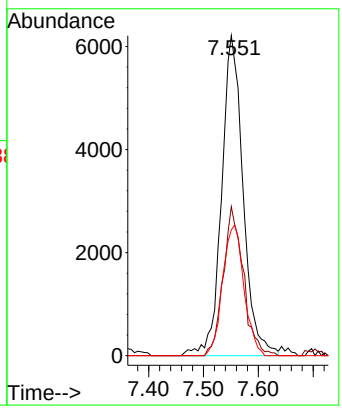


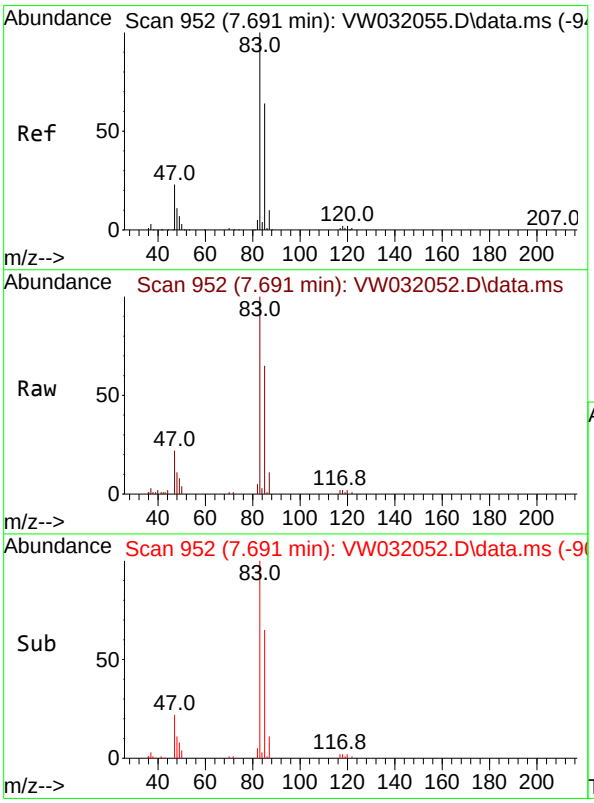
#29
Tetrahydrofuran
Concen: 23.963 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 16965

Ion	Ratio	Lower	Upper
42	100		
72	43.6	36.6	55.0
71	40.3	34.7	52.1

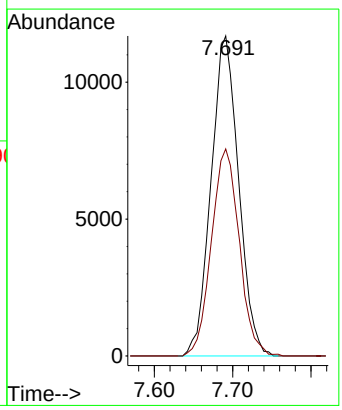


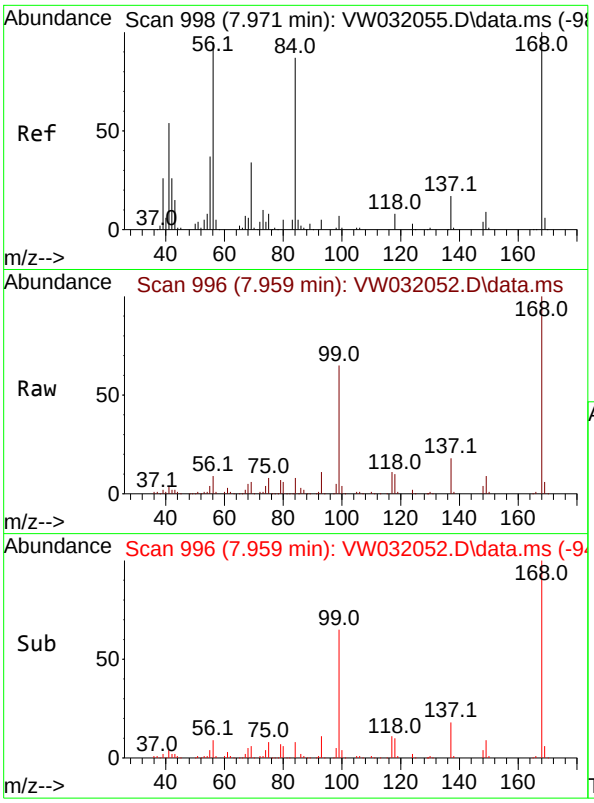


#30
Chloroform
Concen: 5.028 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 28586

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.0	76.4



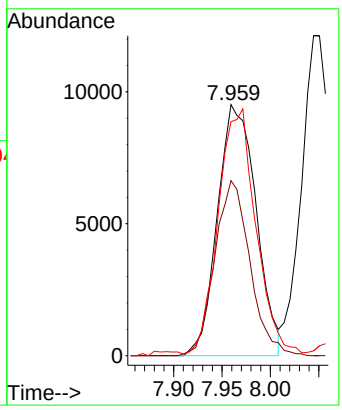


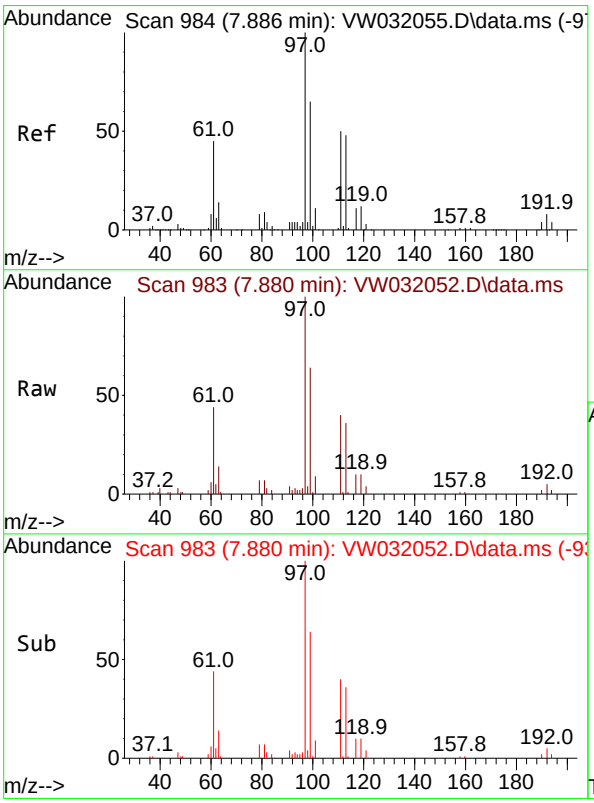
#31
Cyclohexane
Concen: 5.677 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 26393

Ion	Ratio	Lower	Upper
56	100		
69	69.7	28.6	42.8#
84	91.7	73.0	109.4

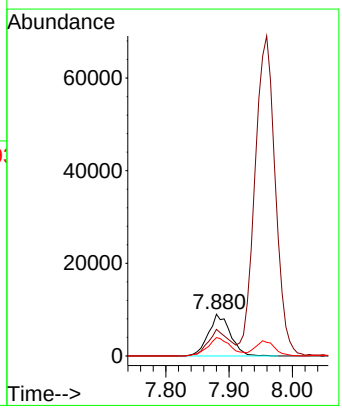


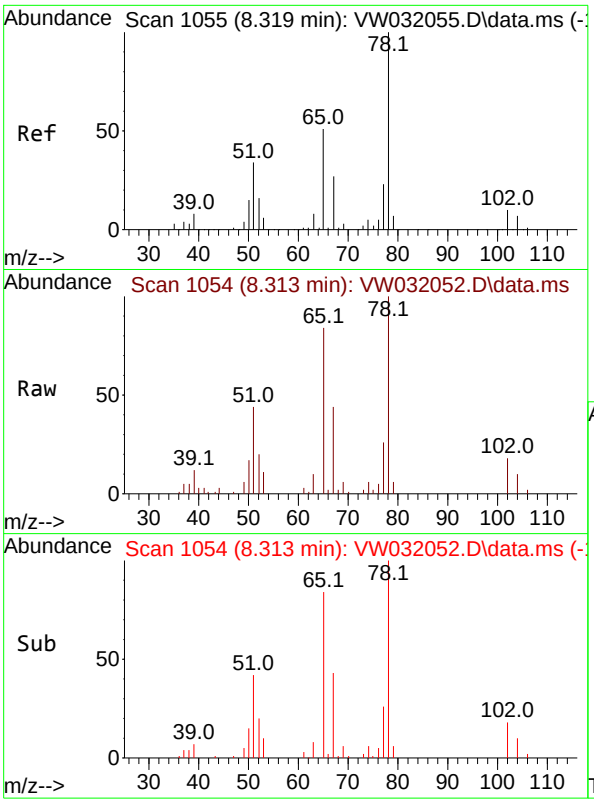


#32
1,1,1-Trichloroethane
Concen: 5.246 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 97 Resp: 21662

Ion	Ratio	Lower	Upper
97	100		
99	60.6	51.8	77.8
61	46.4	35.9	53.9



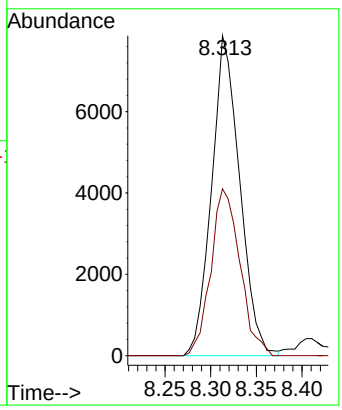


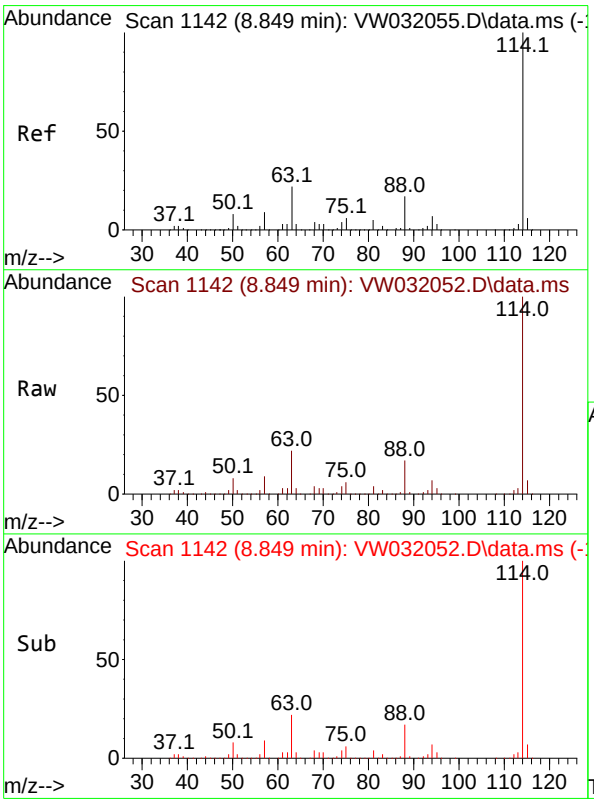
#33
1,2-Dichloroethane-d4
Concen: 5.158 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 16827

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	102.4

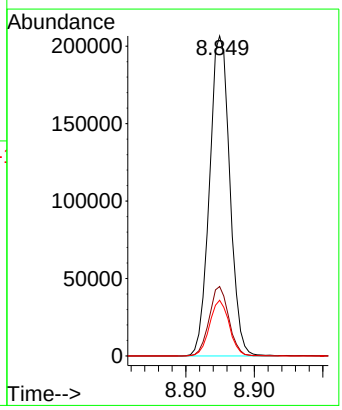


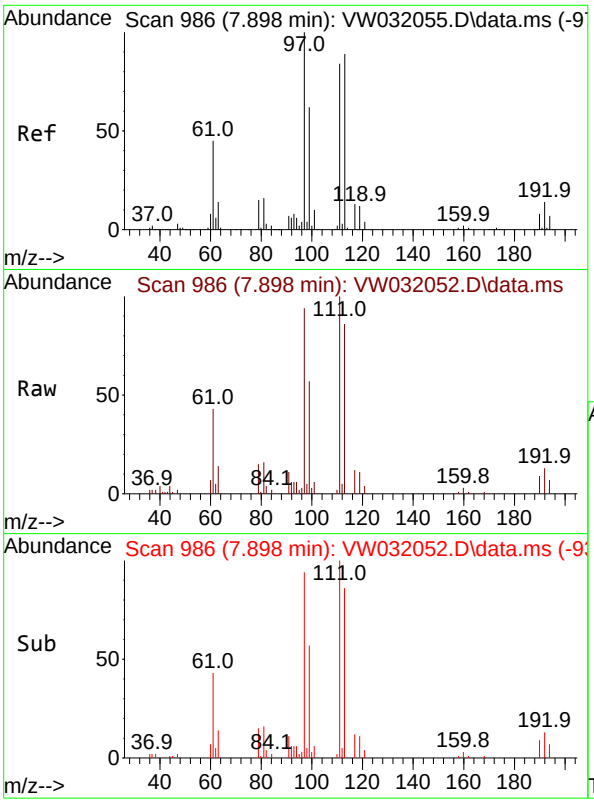


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:114 Resp: 424617

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.0
88	17.4	0.0	33.8



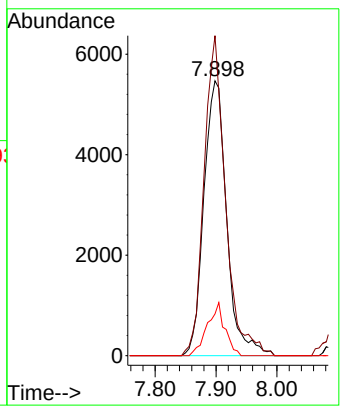


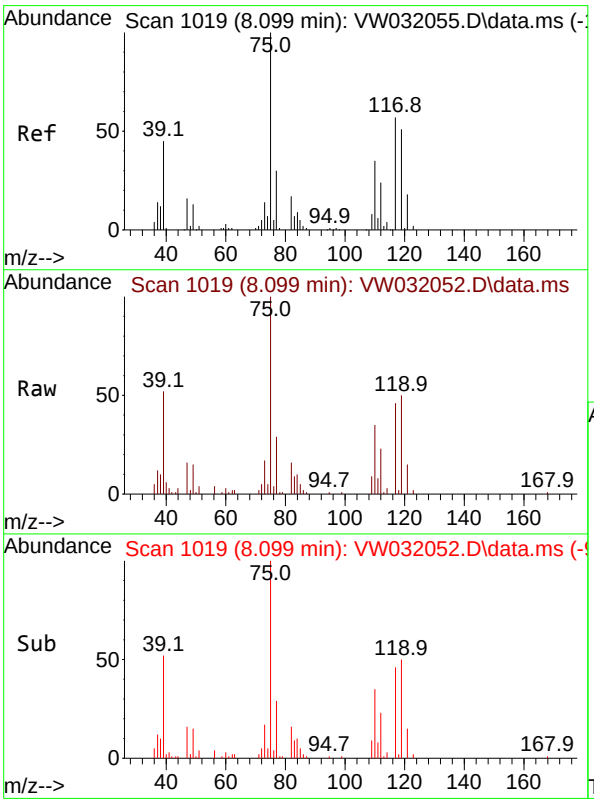
#35
Dibromofluoromethane
Concen: 5.205 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 14278

Ion	Ratio	Lower	Upper
113	100		
111	109.4	80.1	120.1
192	14.8	13.1	19.7

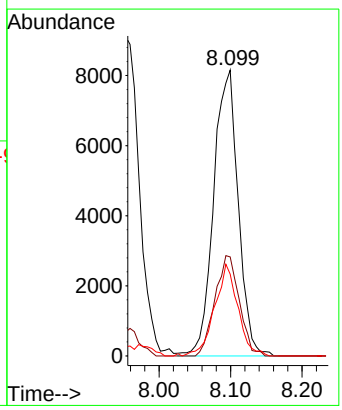


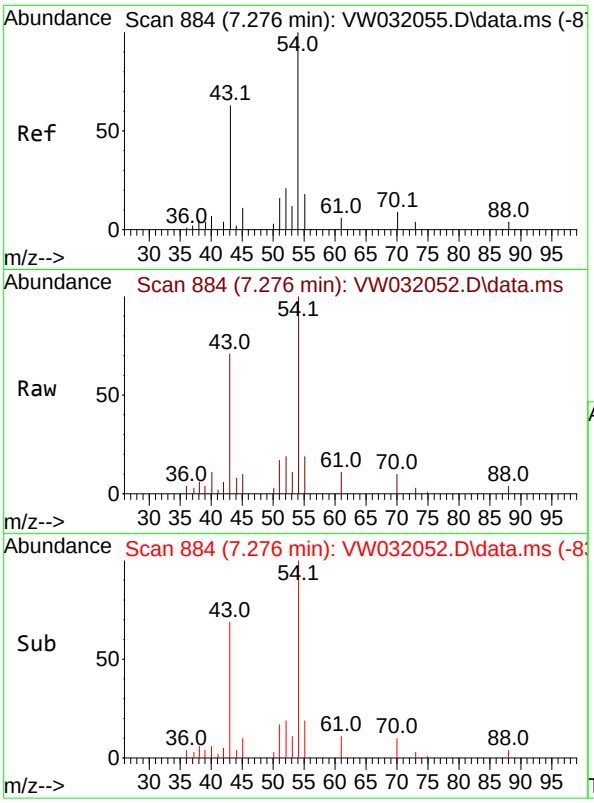


#36
1,1-Dichloropropene
Concen: 5.034 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19468

Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.4	52.2
77	30.4	24.7	37.1



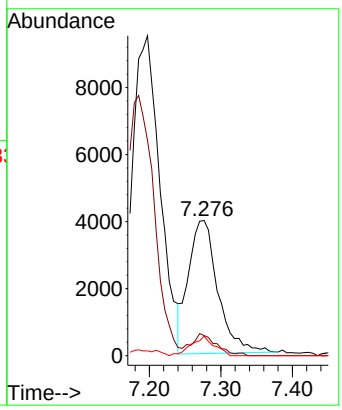


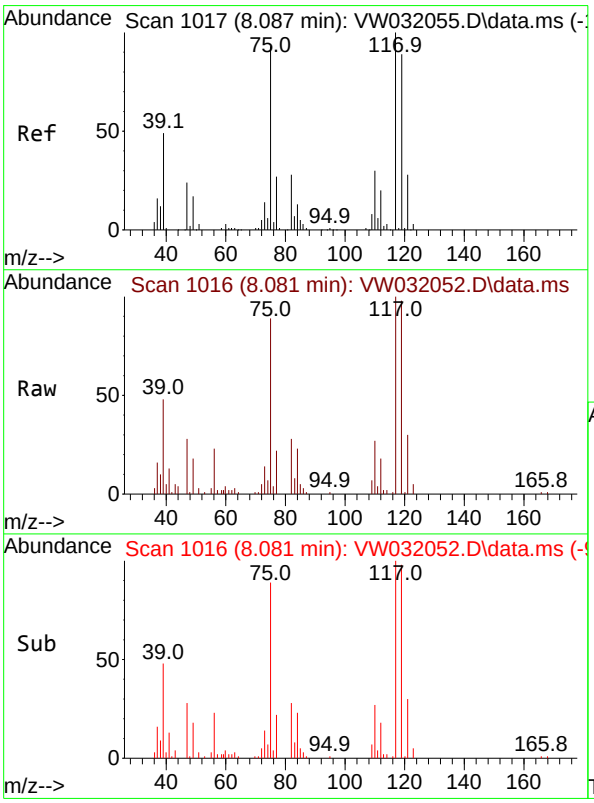
#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 11365

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.8	17.6
70	11.4	9.4	14.0

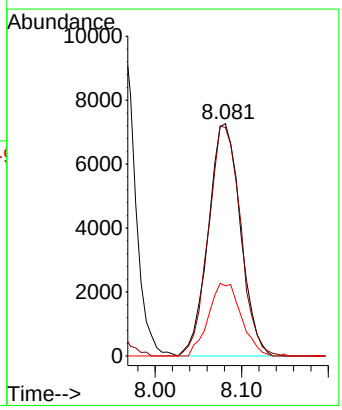


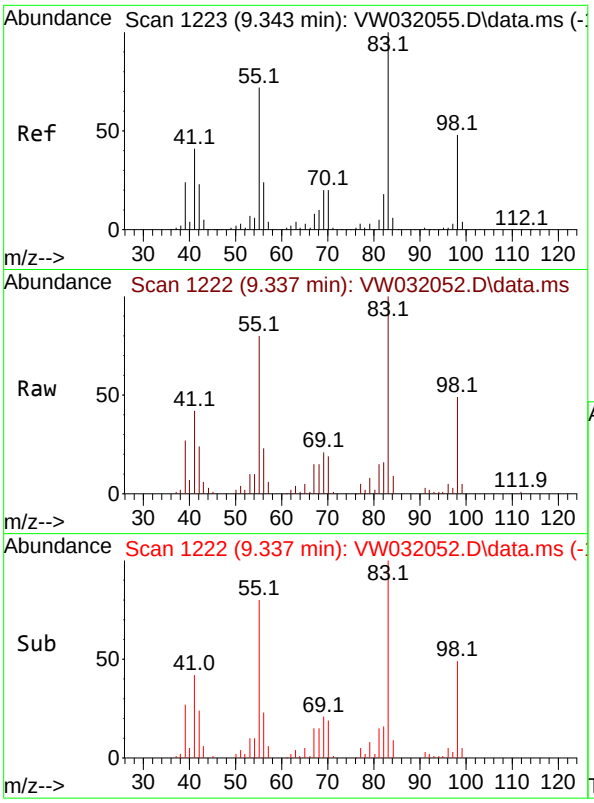


#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 18734

Ion	Ratio	Lower	Upper
117	100		
119	98.3	71.4	107.2
121	30.2	22.3	33.5



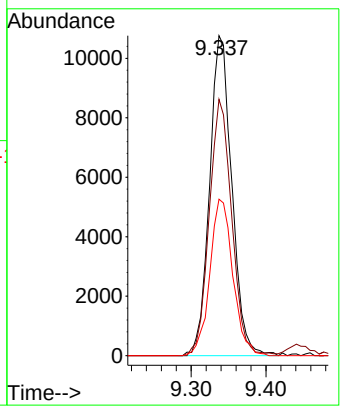


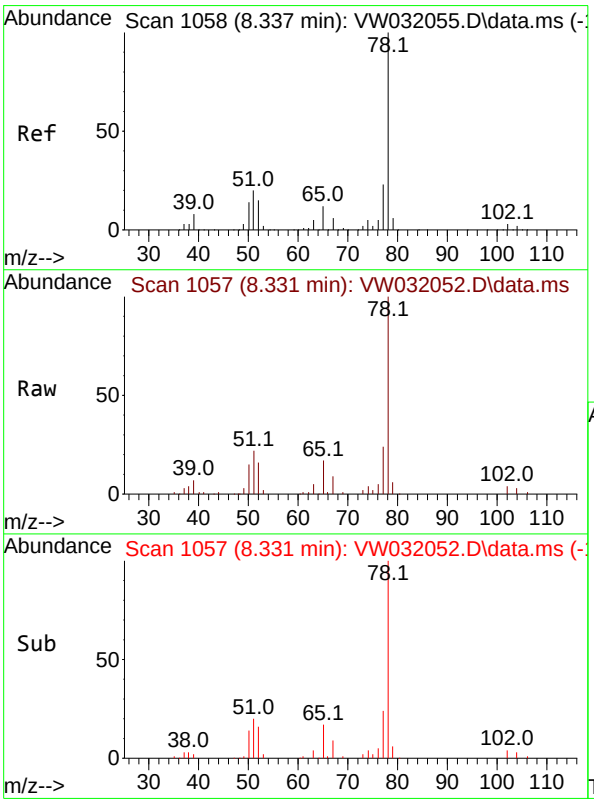
#39
Methylcyclohexane
Concen: 4.728 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 22284

Ion	Ratio	Lower	Upper
83	100		
55	80.1	57.9	86.9
98	48.9	38.3	57.5

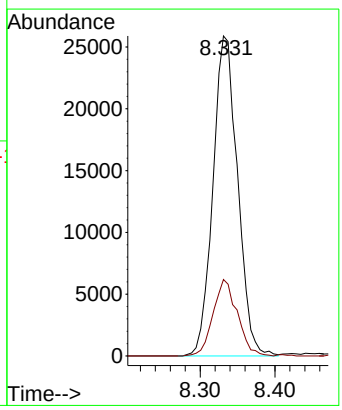


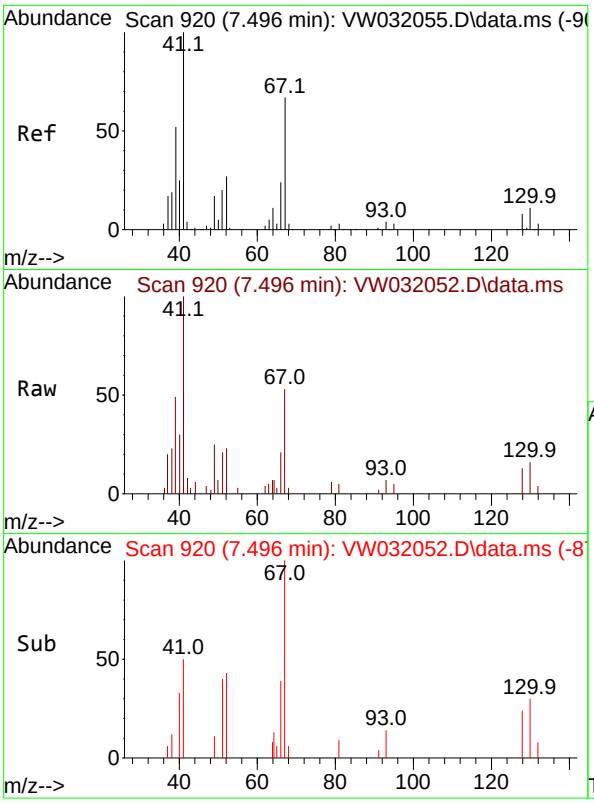


#40
Benzene
Concen: 4.941 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 78 Resp: 59395

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.4	27.6



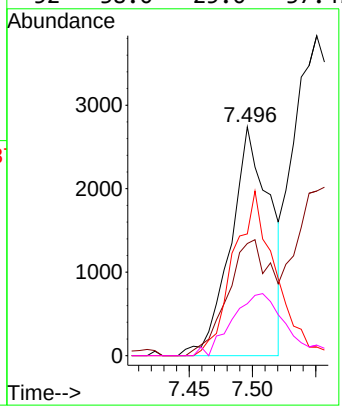


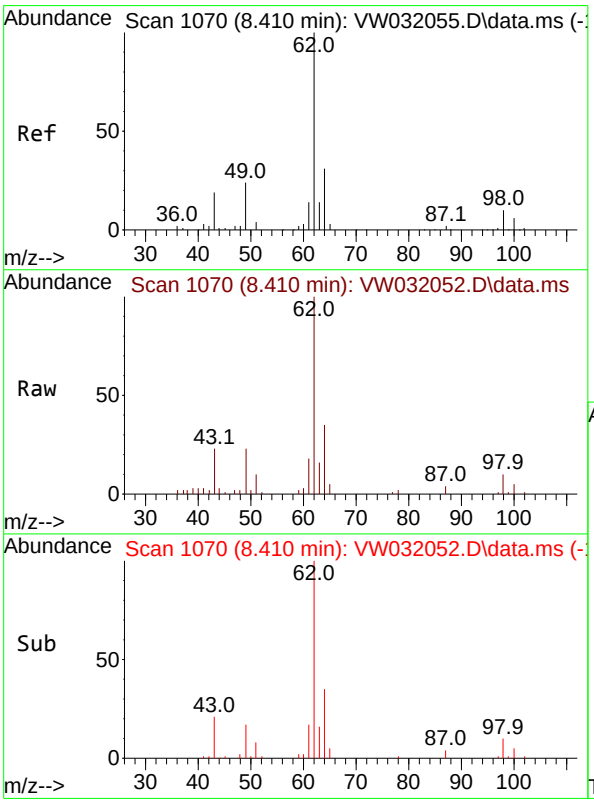
#41
Methacrylonitrile
Concen: 4.576 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 5910

Ion	Ratio	Lower	Upper
41	100		
39	57.0	42.6	63.8
67	78.0	61.0	91.4
52	38.0	25.0	37.4#

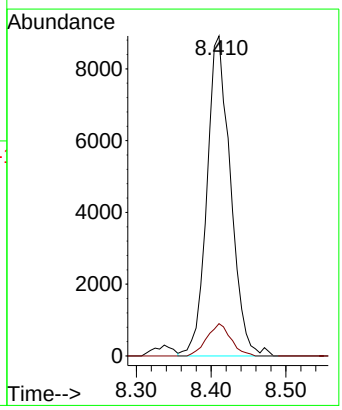


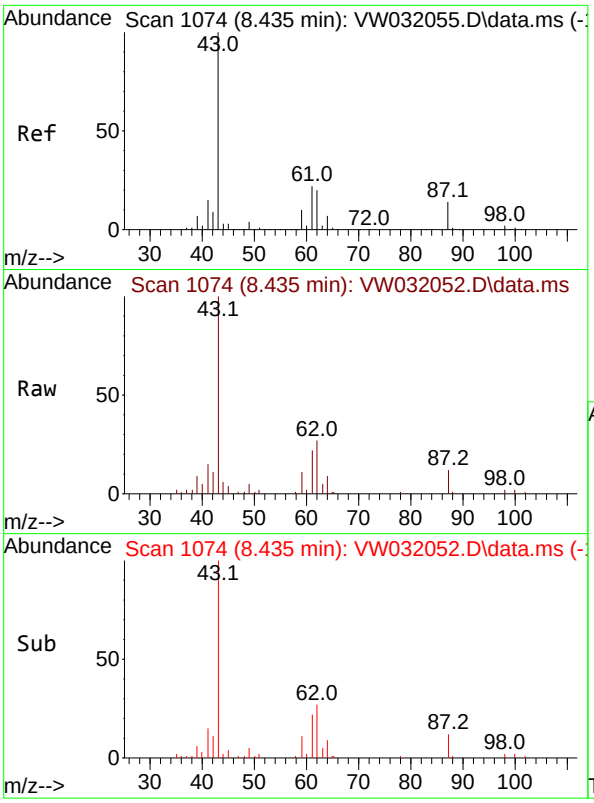


#42
1,2-Dichloroethane
Concen: 5.085 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 19560

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.8



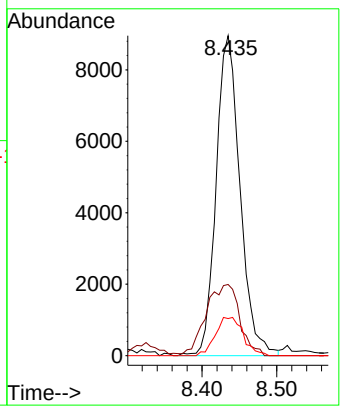


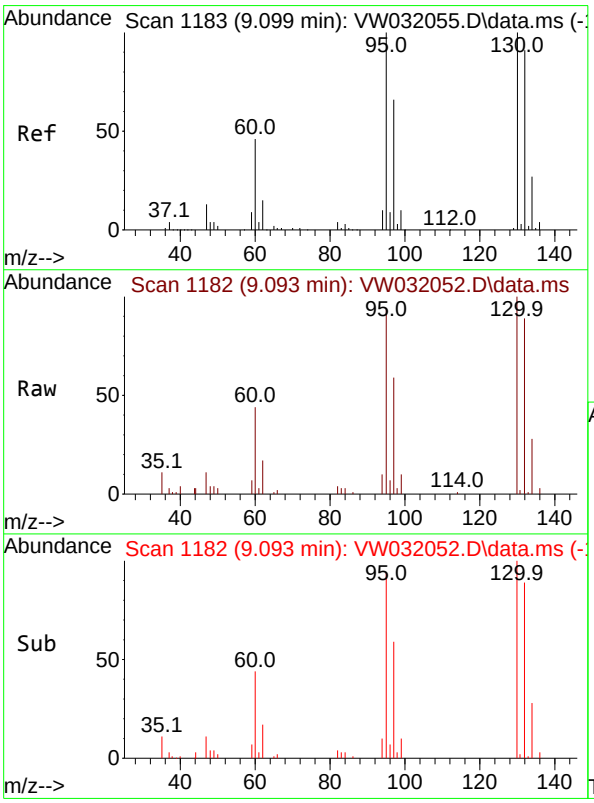
#43
Isopropyl Acetate
Concen: 4.756 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 19928

Ion	Ratio	Lower	Upper
43	100		
61	31.3	23.8	35.8
87	13.9	11.7	17.5

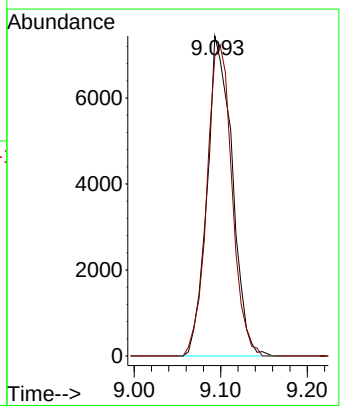


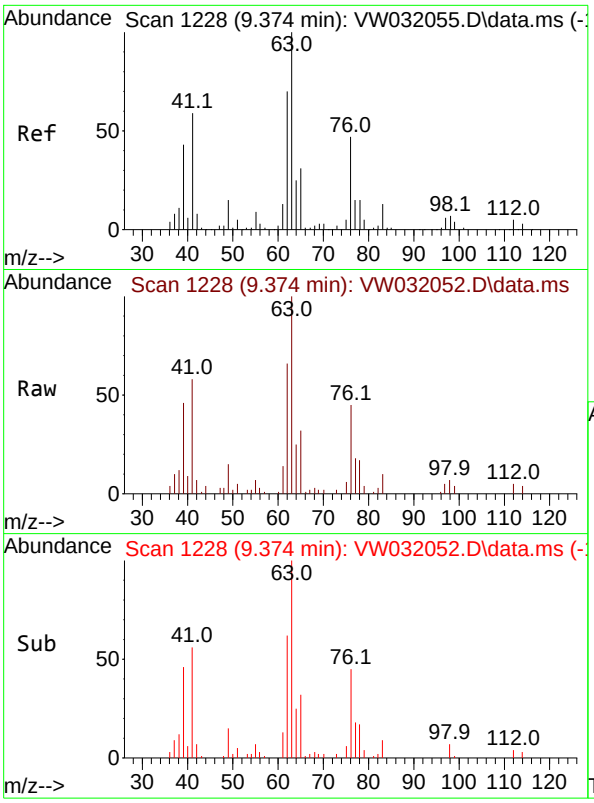


#44
Trichloroethene
Concen: 5.240 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:130 Resp: 14999

Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	200.6



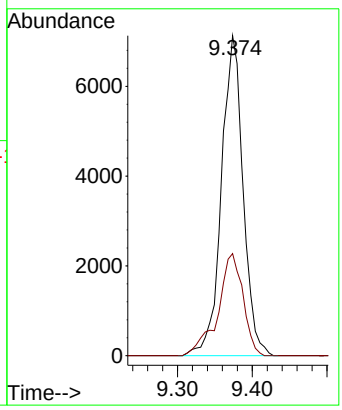


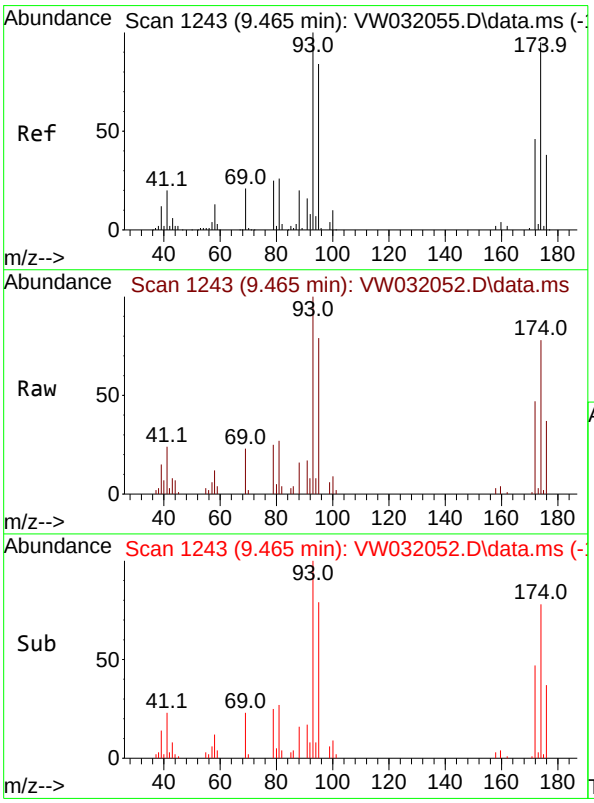
#45
1,2-Dichloropropane
Concen: 4.954 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 14387

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8

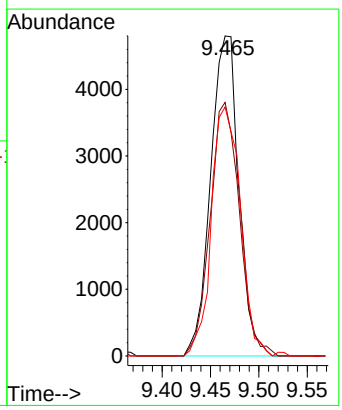


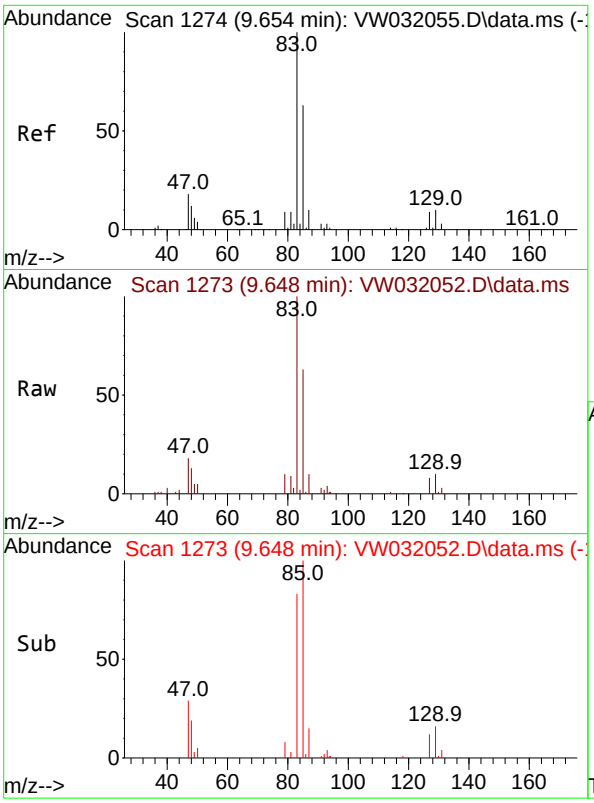


#46
Dibromomethane
Concen: 5.204 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 93 Resp: 9753

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.3	97.9
174	80.1	68.6	102.8



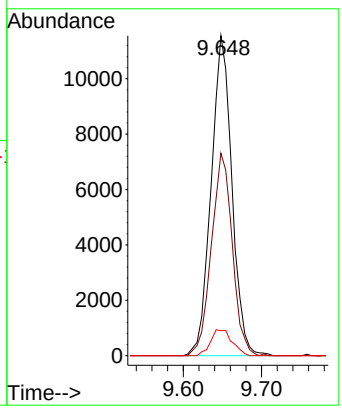


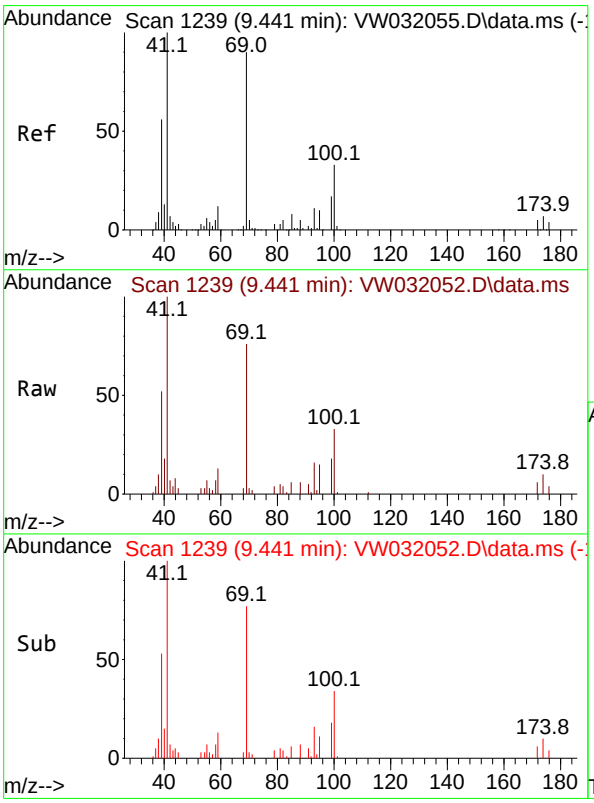
#47
Bromodichloromethane
Concen: 4.927 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 21279

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.6	75.8
127	7.8	6.9	10.3

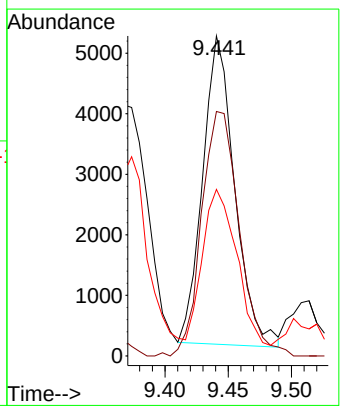


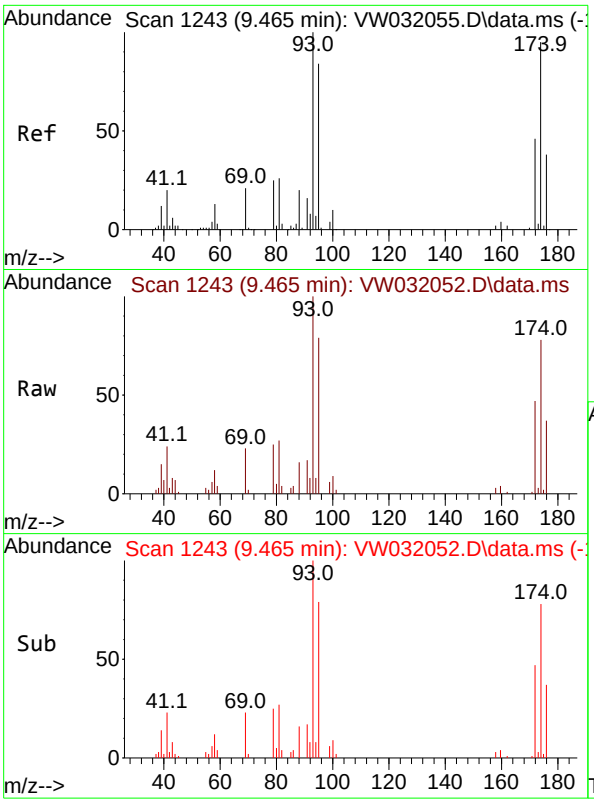


#48
Methyl methacrylate
Concen: 4.424 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 8949

Ion	Ratio	Lower	Upper
41	100		
69	93.4	73.0	109.6
39	53.4	45.0	67.4



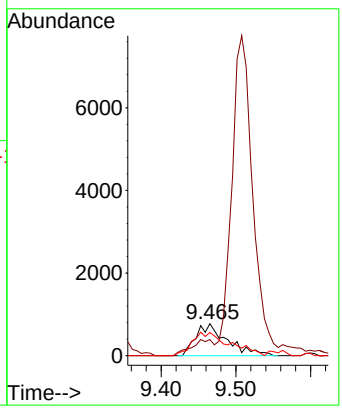


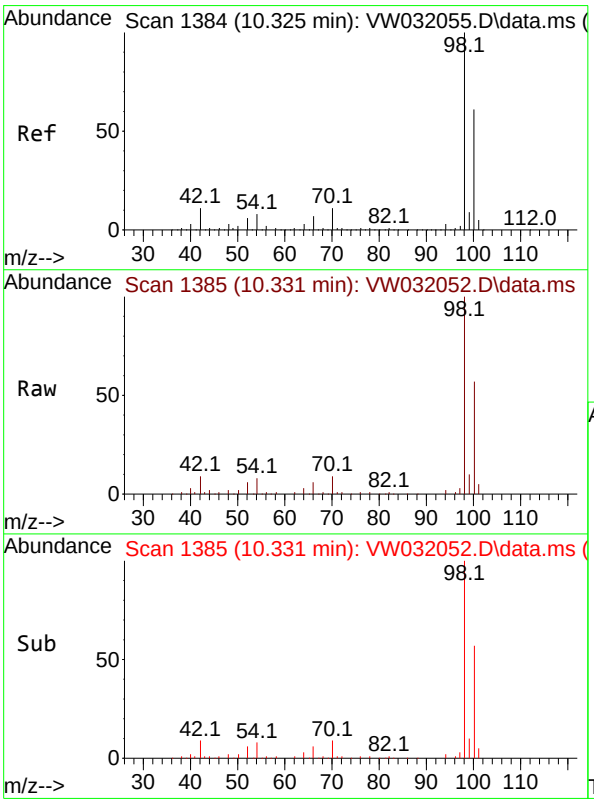
#49
1,4-Dioxane
Concen: 93.217 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 2259

Ion	Ratio	Lower	Upper
88	100		
43	35.9	20.6	30.8#
58	87.2	60.4	90.6

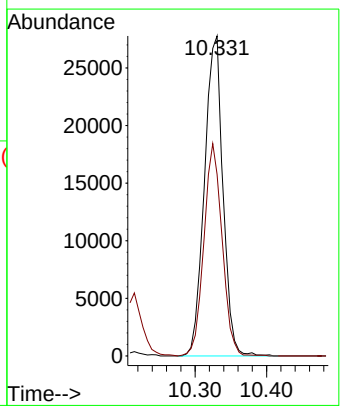


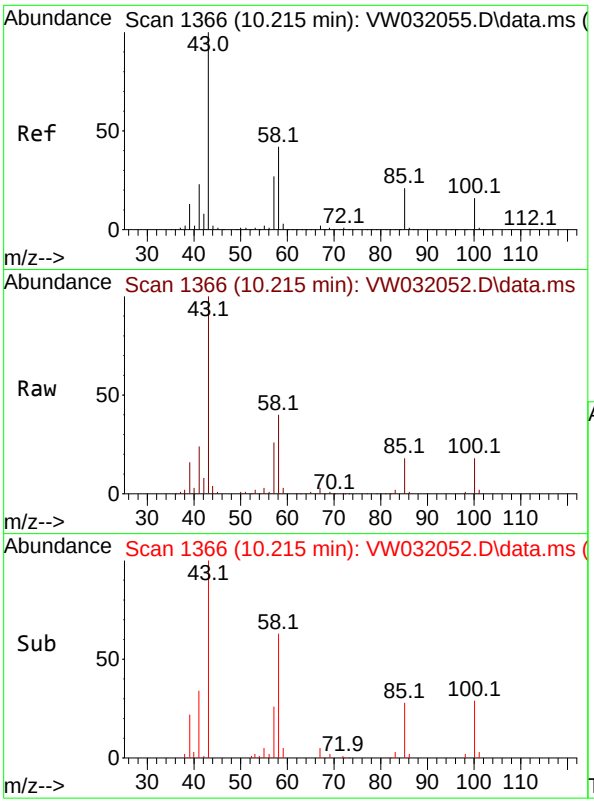


#50
Toluene-d8
Concen: 4.916 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 98 Resp: 49876

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.1	76.7



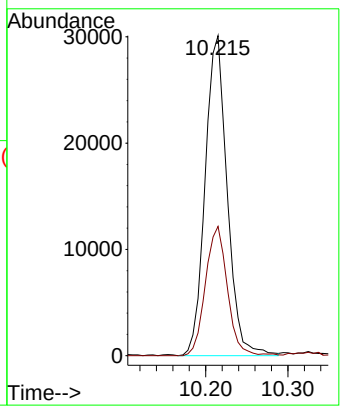


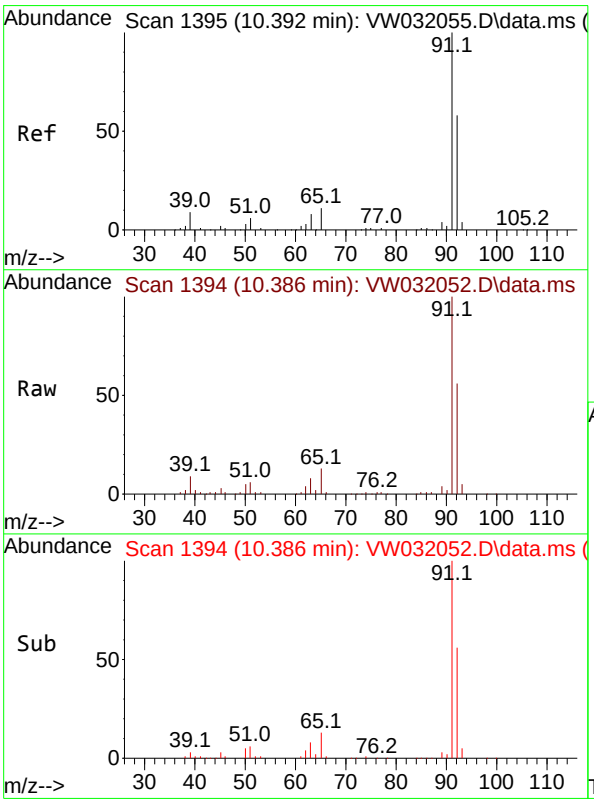
#51
4-Methyl-2-Pentanone
Concen: 23.755 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 56184

Ion	Ratio	Lower	Upper
43	100		
58	40.2	33.1	49.7

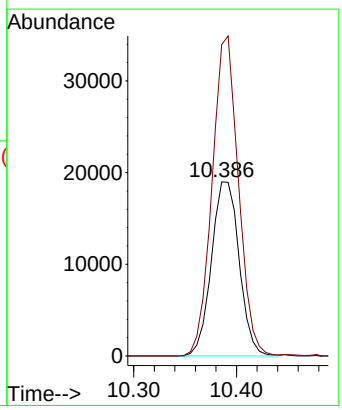


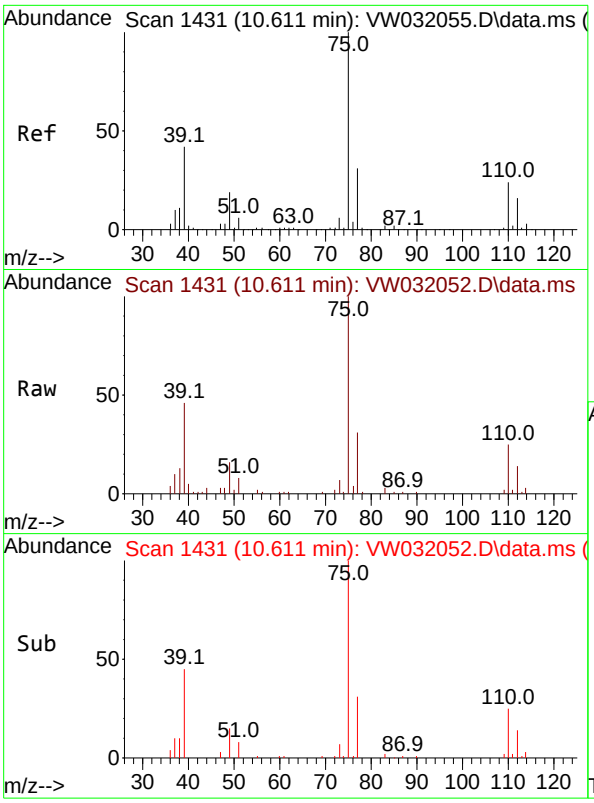


#52
Toluene
Concen: 4.692 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 92 Resp: 35525

Ion	Ratio	Lower	Upper
92	100		
91	175.5	136.3	204.5



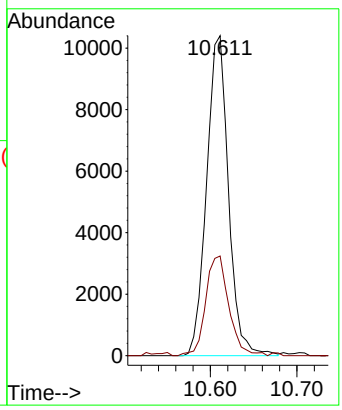


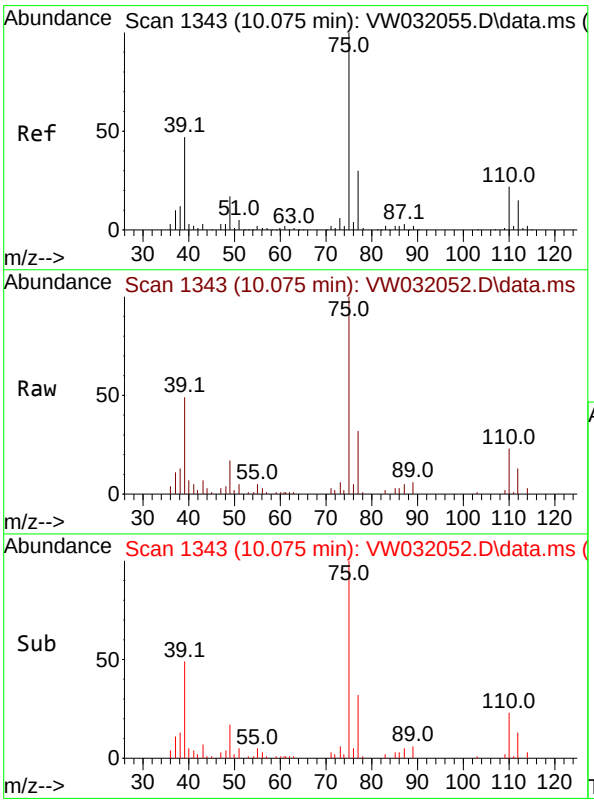
#53
t-1,3-Dichloropropene
Concen: 4.513 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 18259

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.6

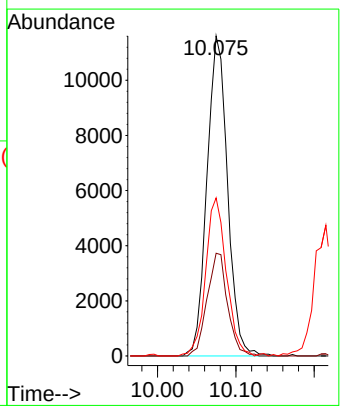


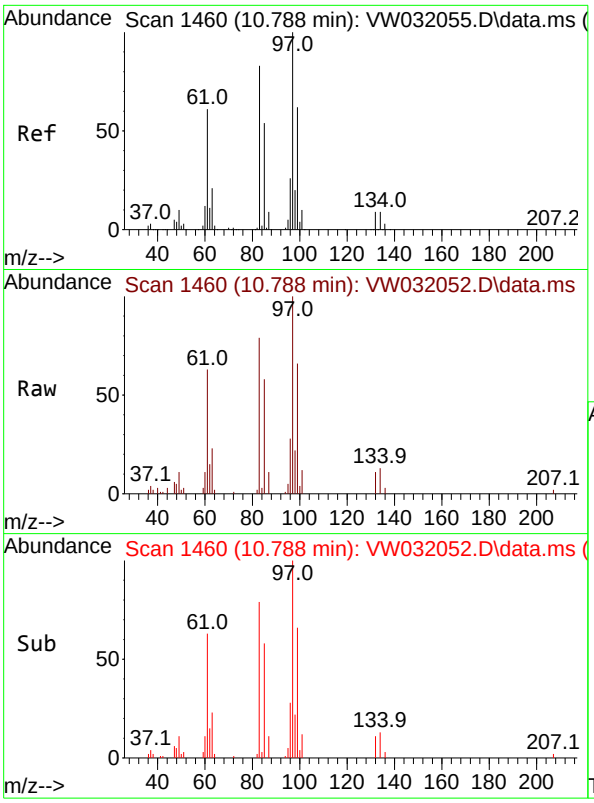


#54
cis-1,3-Dichloropropene
Concen: 4.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 21173

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	49.4	37.8	56.8



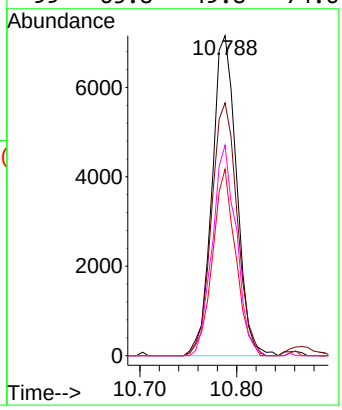


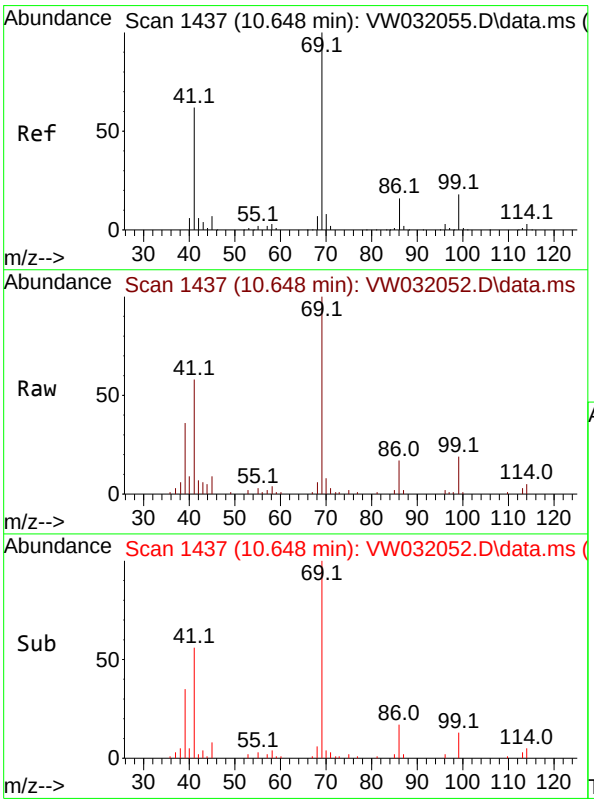
#55
1,1,2-Trichloroethane
Concen: 5.057 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 12594

Ion	Ratio	Lower	Upper
97	100		
83	79.0	66.4	99.6
85	58.3	43.1	64.7
99	65.8	49.8	74.6

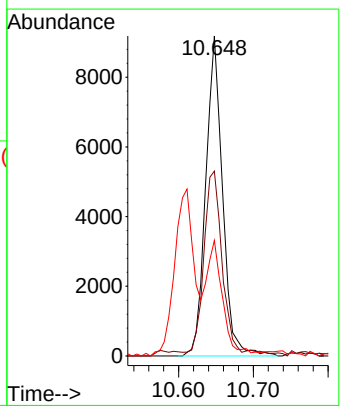


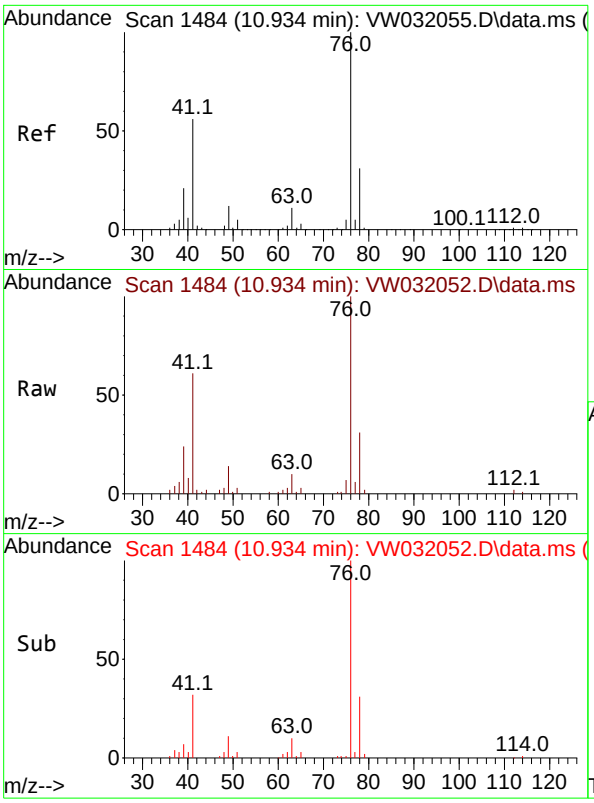


#56
Ethyl methacrylate
Concen: 4.317 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 69 Resp: 14387

Ion	Ratio	Lower	Upper
69	100		
41	59.2	51.2	76.8
39	32.8	25.4	38.0



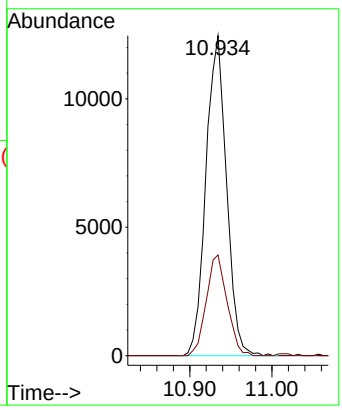


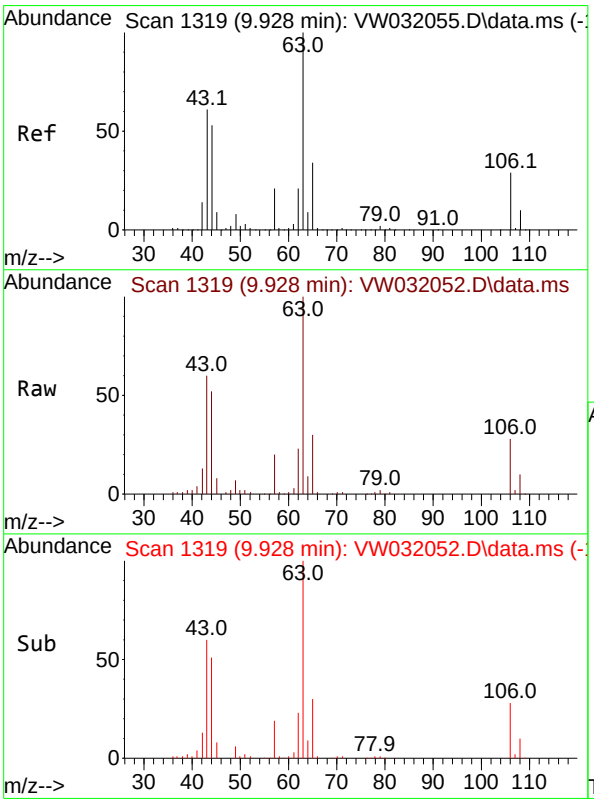
#57
1,3-Dichloropropane
Concen: 4.988 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 21654

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.8	38.6

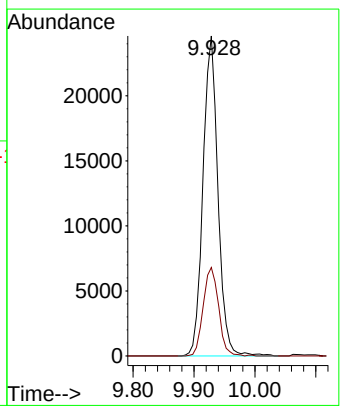


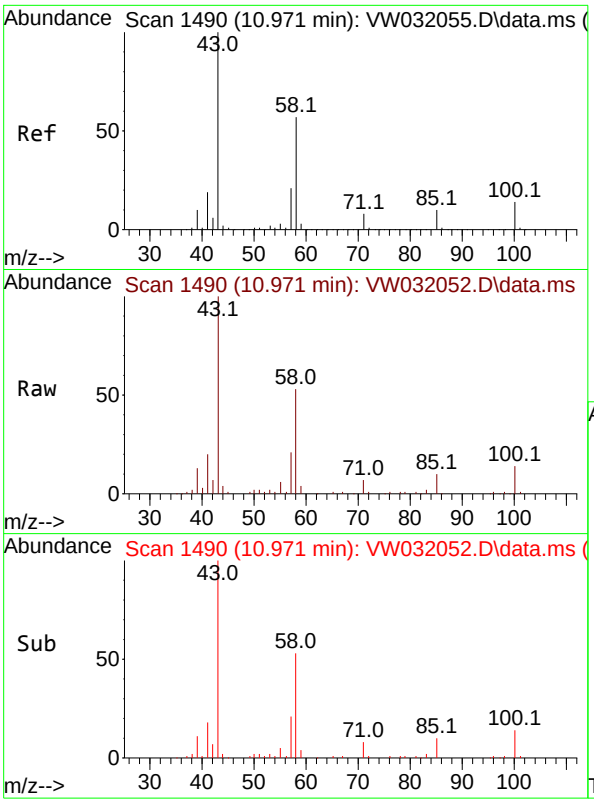


#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 41991

Ion	Ratio	Lower	Upper
63	100		
106	28.4	23.5	35.3



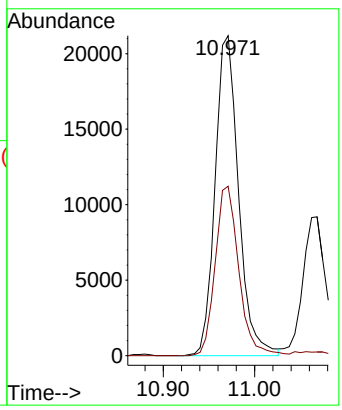


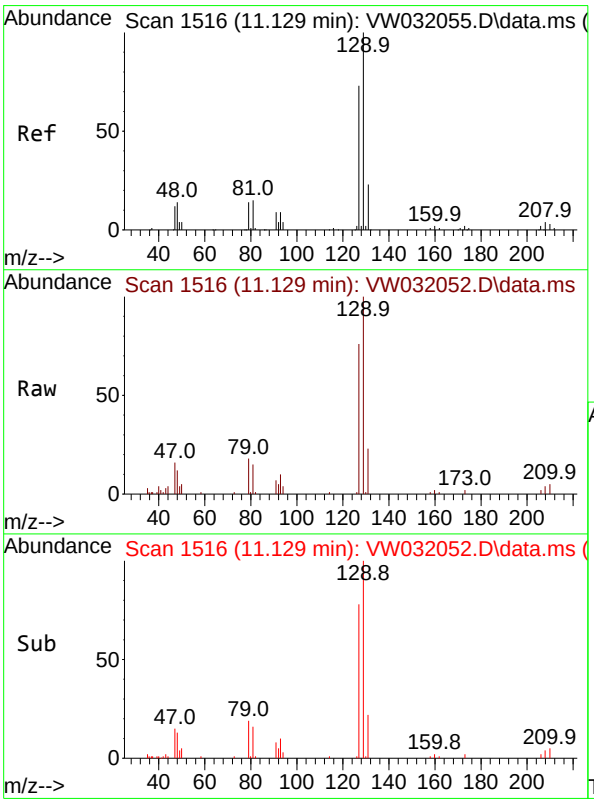
#59
2-Hexanone
Concen: 23.074 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 37796

Ion	Ratio	Lower	Upper
43	100		
58	53.3	28.3	85.0

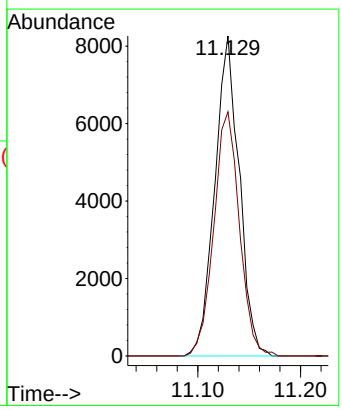


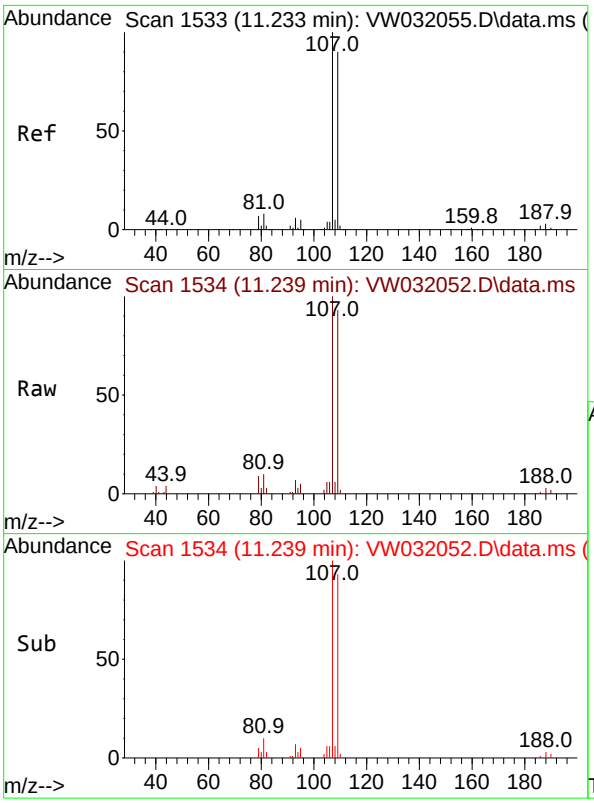


#60
Dibromochloromethane
Concen: 4.799 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:129 Resp: 13654

Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.0	116.9



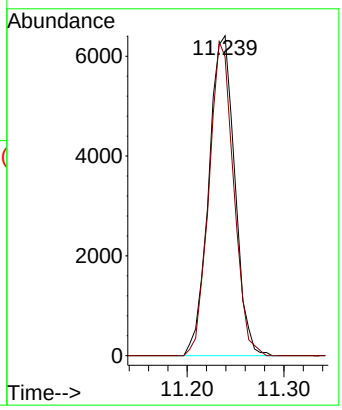


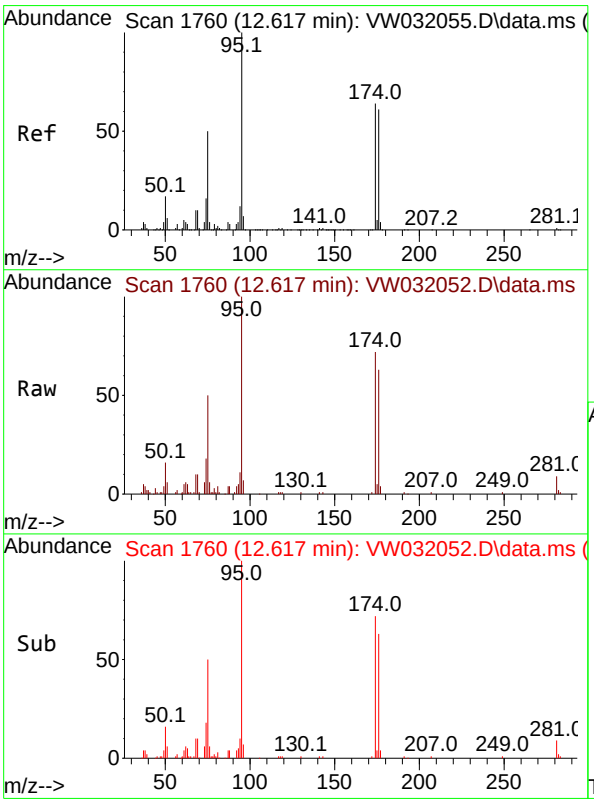
#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 11992

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.2	111.4

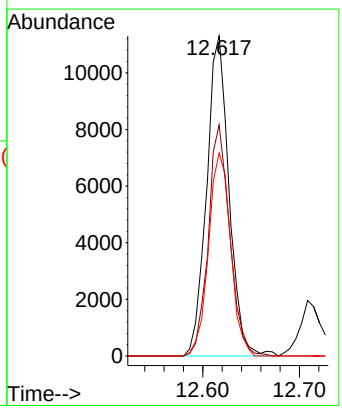


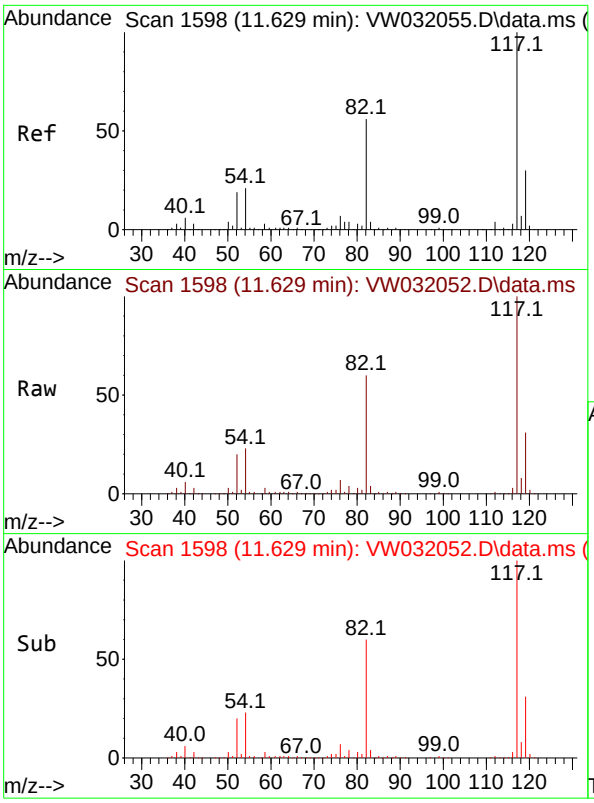


#62
4-Bromofluorobenzene
Concen: 4.863 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 95 Resp: 18184

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	129.0
176	62.7	0.0	124.6



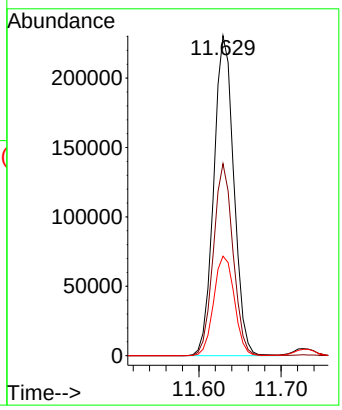


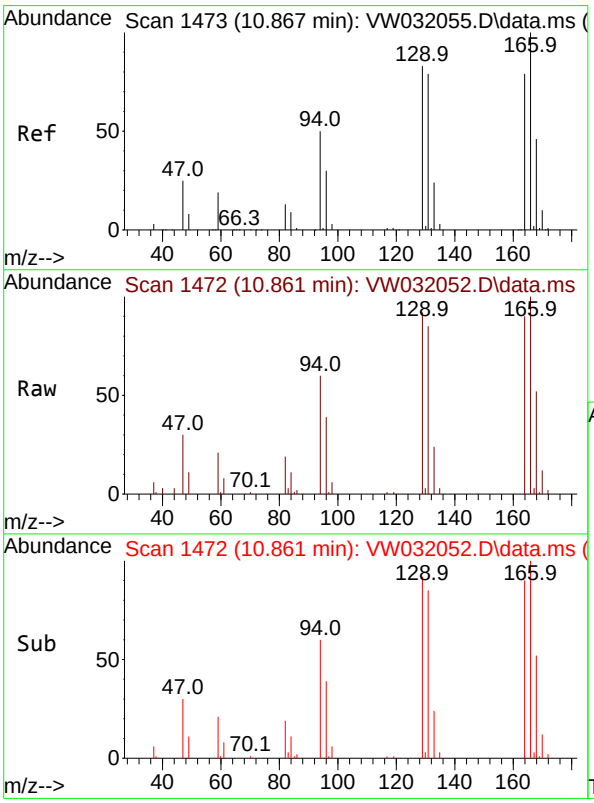
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 391234

Ion	Ratio	Lower	Upper
117	100		
82	60.0	45.0	67.4
119	31.1	24.2	36.4

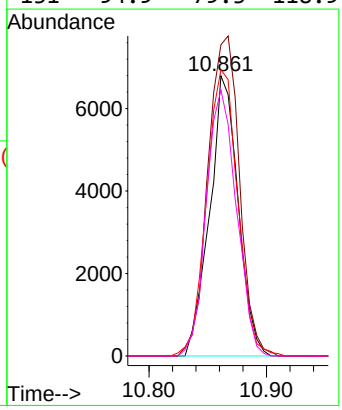


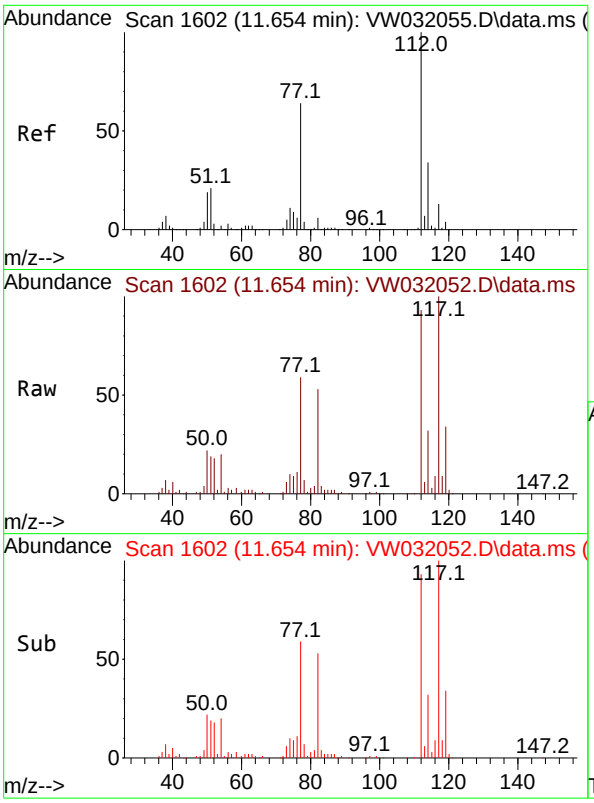


#64
Tetrachloroethene
Concen: 5.066 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:164 Resp: 11449

Ion	Ratio	Lower	Upper
164	100		
166	111.1	100.9	151.3
129	101.3	83.6	125.4
131	94.9	79.3	118.9



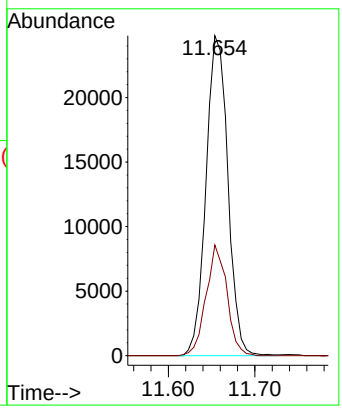


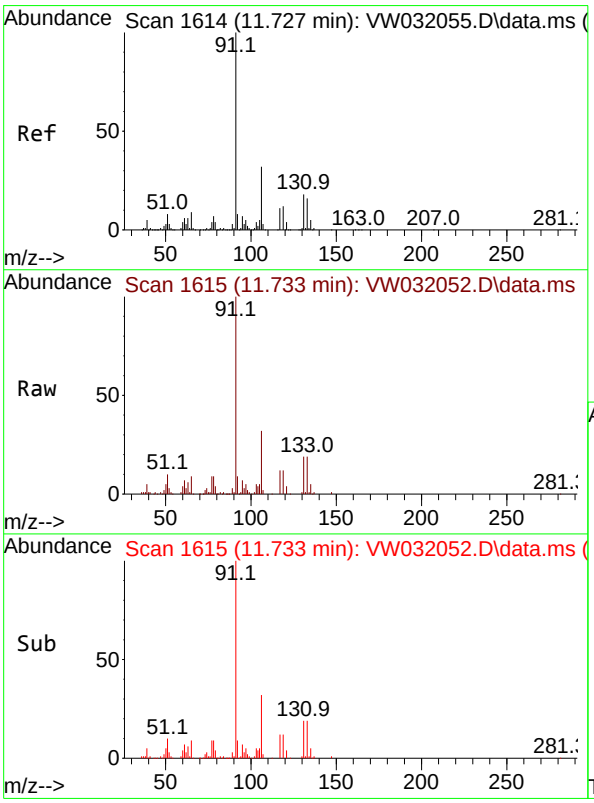
#65
Chlorobenzene
Concen: 5.110 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 43515

Ion	Ratio	Lower	Upper
112	100		
114	34.6	26.9	40.3

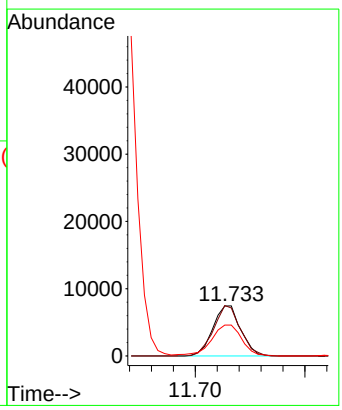


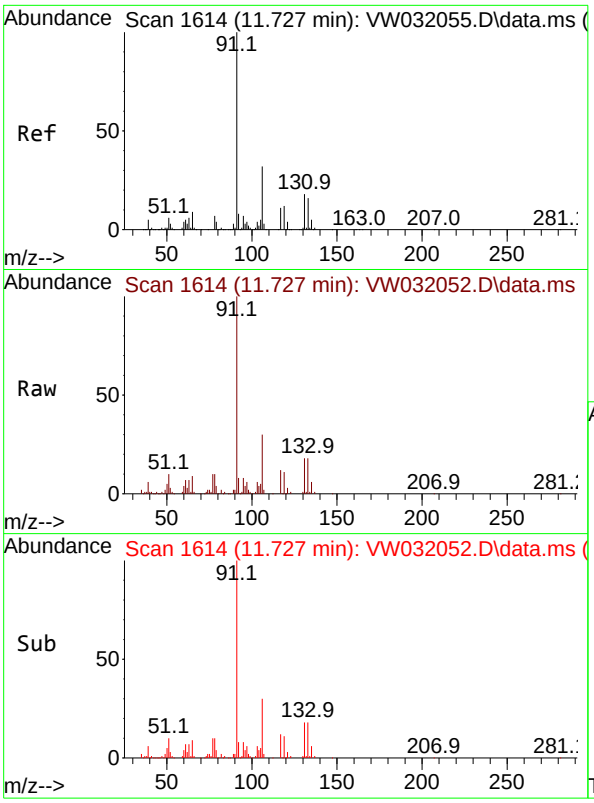


#66
1,1,1,2-Tetrachloroethane
Concen: 4.907 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:131 Resp: 13037

Ion	Ratio	Lower	Upper
131	100		
133	97.4	47.3	142.0
119	67.3	34.5	103.5



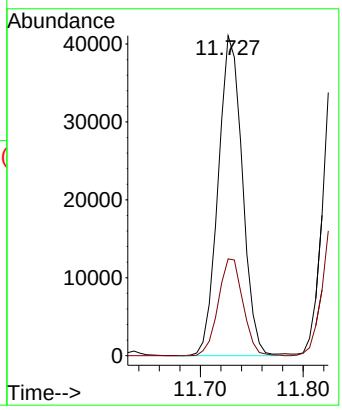


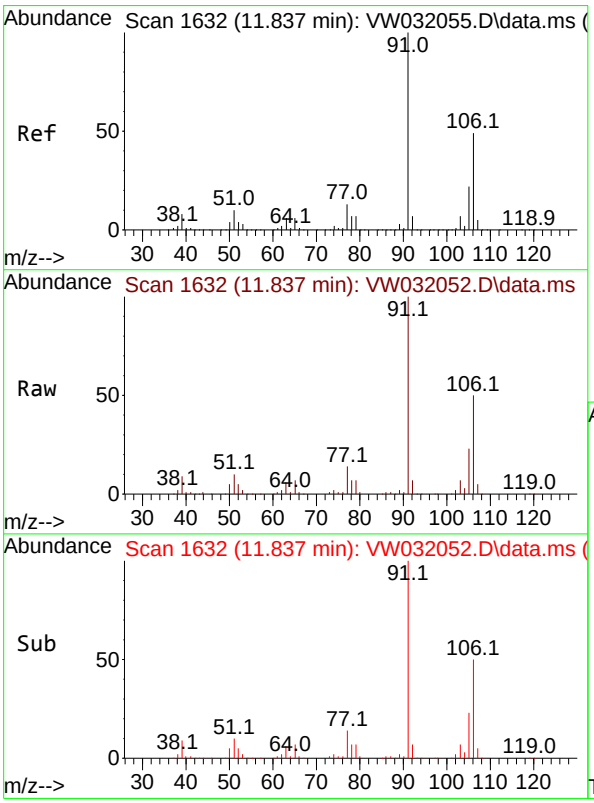
#67
Ethyl Benzene
Concen: 4.650 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 67071

Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.4	38.0

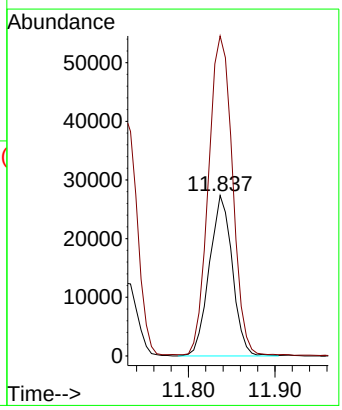


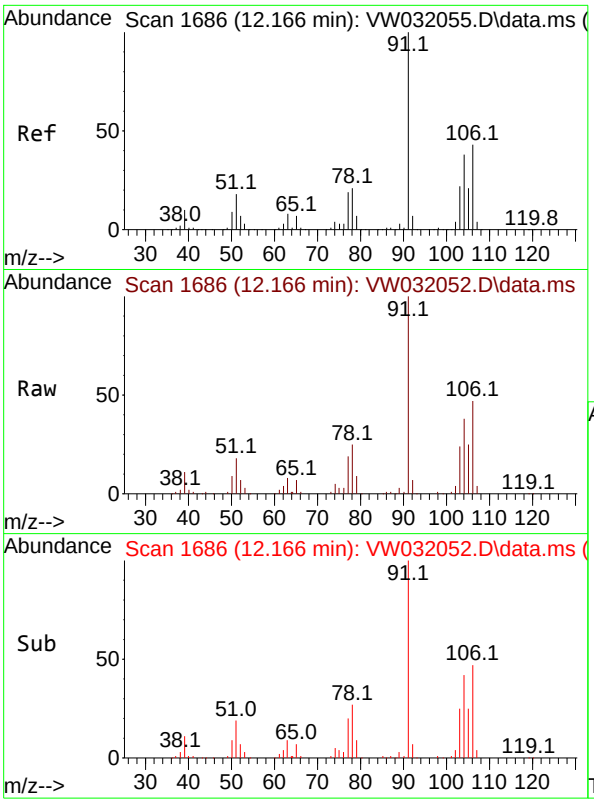


#68
m/p-Xylenes
Concen: 9.070 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 50482

Ion	Ratio	Lower	Upper
106	100		
91	209.1	162.2	243.2



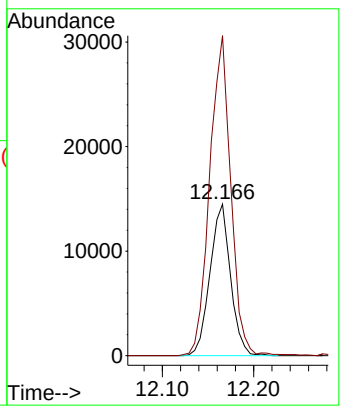


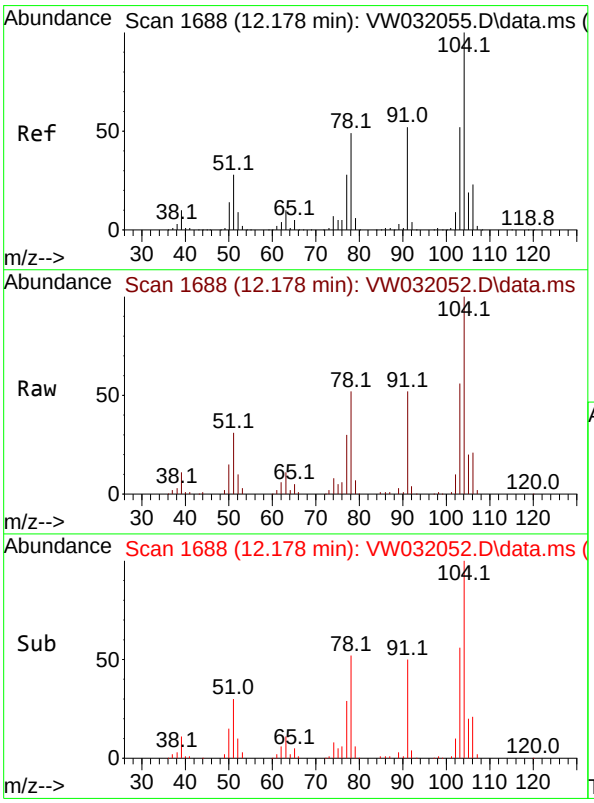
#69
o-Xylene
Concen: 4.393 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 22602

Ion	Ratio	Lower	Upper
106	100		
91	217.4	110.8	332.3

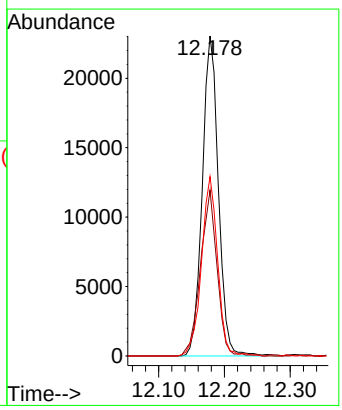


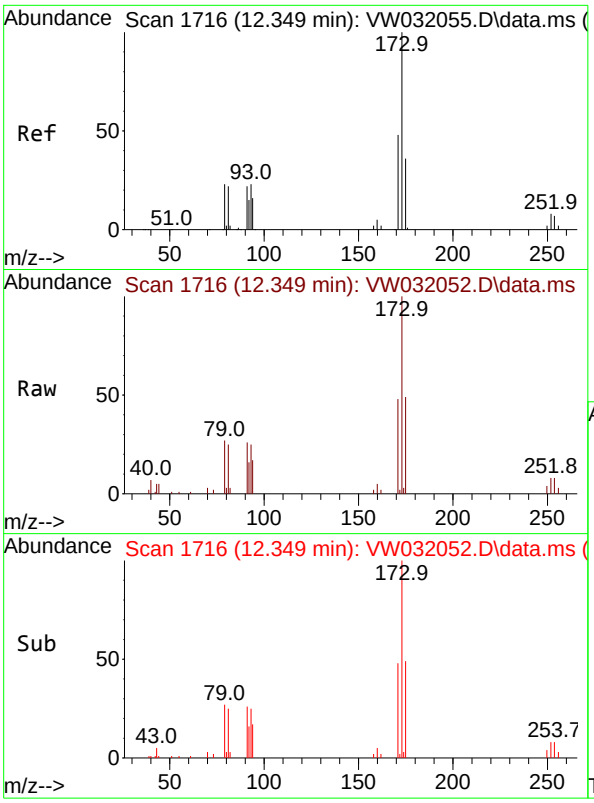


#70
Styrene
Concen: 4.300 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:104 Resp: 39288

Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.2	61.8
103	56.1	43.8	65.8



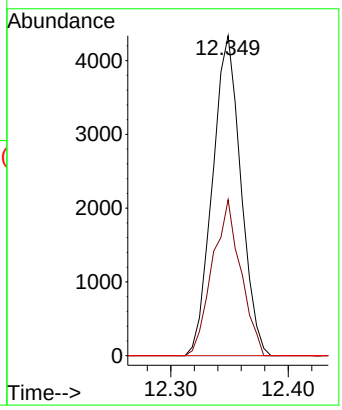


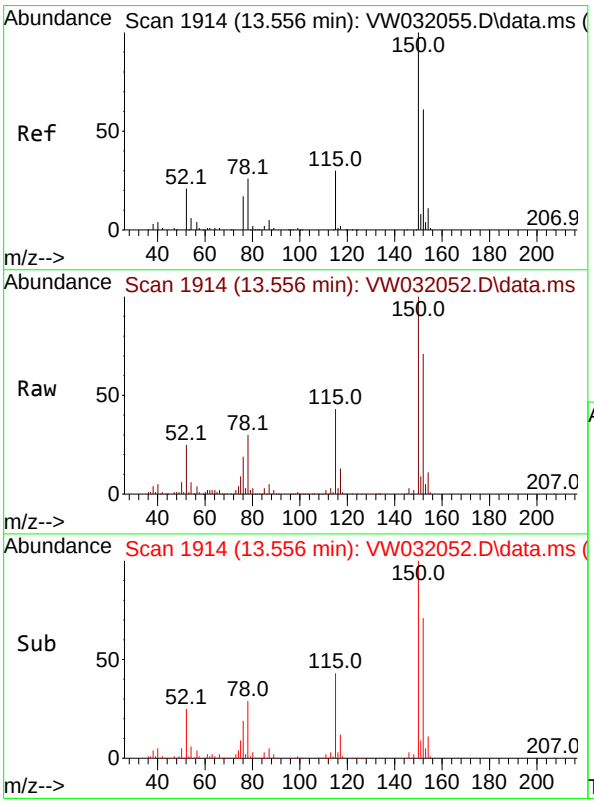
#71
Bromoform
Concen: 4.792 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 7283

Ion	Ratio	Lower	Upper
173	100		
175	48.9	22.9	68.7
254	0.0	0.0	0.0

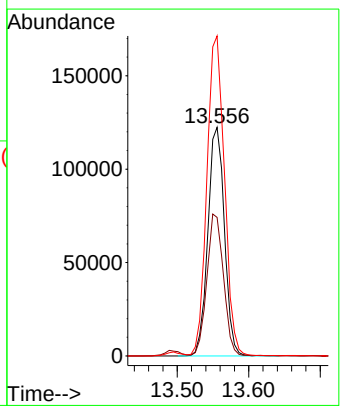


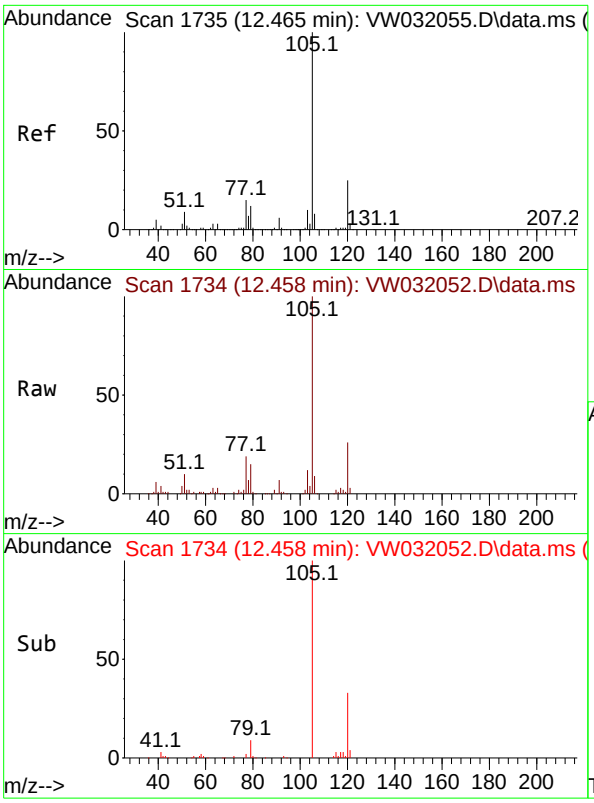


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:152 Resp: 196943

Ion	Ratio	Lower	Upper
152	100		
115	62.0	32.6	97.8
150	147.8	0.0	359.4



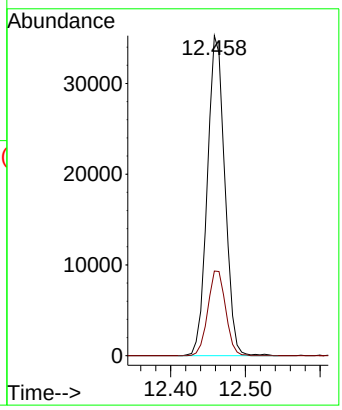


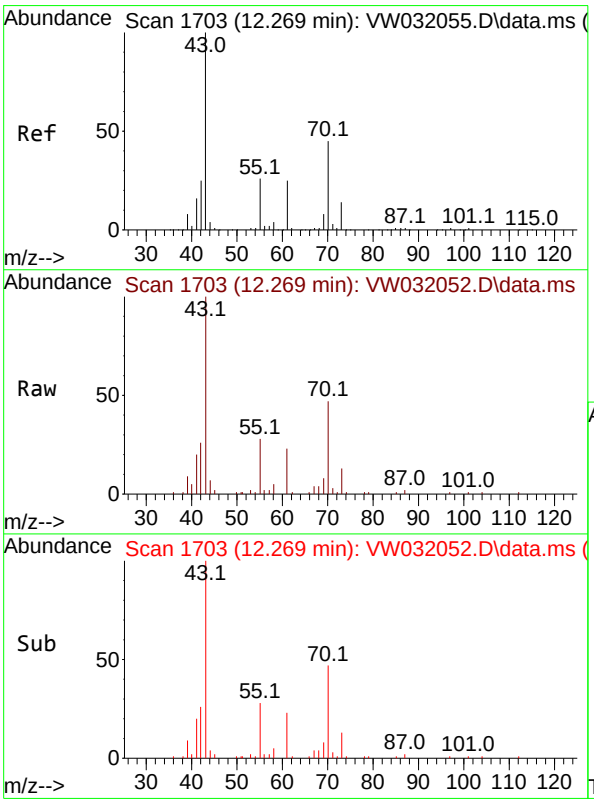
#73
Isopropylbenzene
Concen: 4.164 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 57306

Ion	Ratio	Lower	Upper
105	100		
120	26.8	12.8	38.4

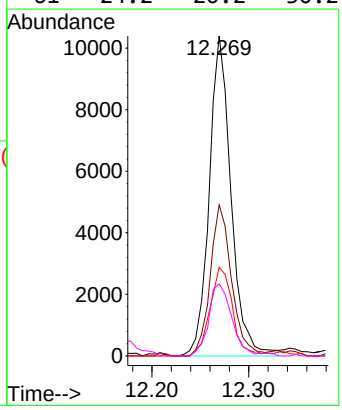


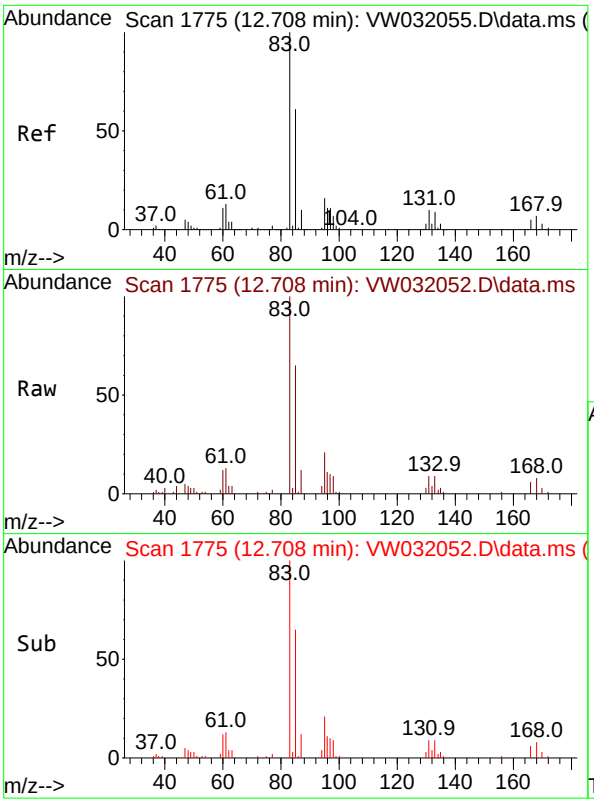


#74
N-amyl acetate
Concen: 4.135 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 16327

Ion	Ratio	Lower	Upper
43	100		
70	45.9	37.0	55.4
55	28.8	21.1	31.7
61	24.2	20.2	30.2



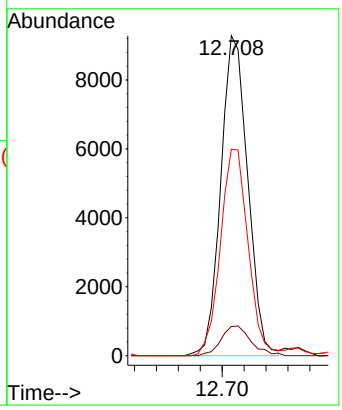


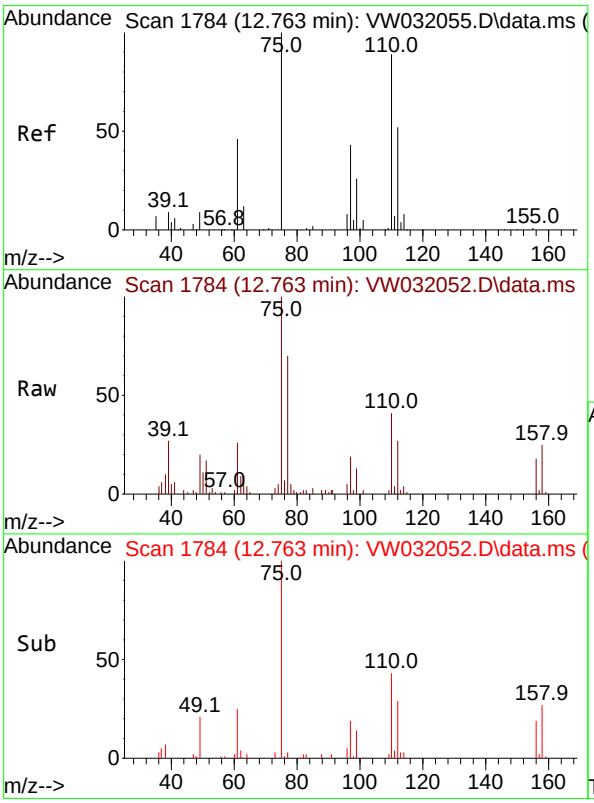
#75
1,1,2,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 15805

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	66.7	32.2	96.6

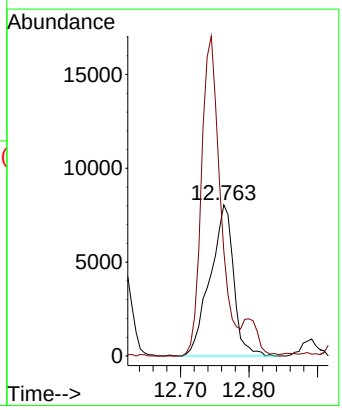


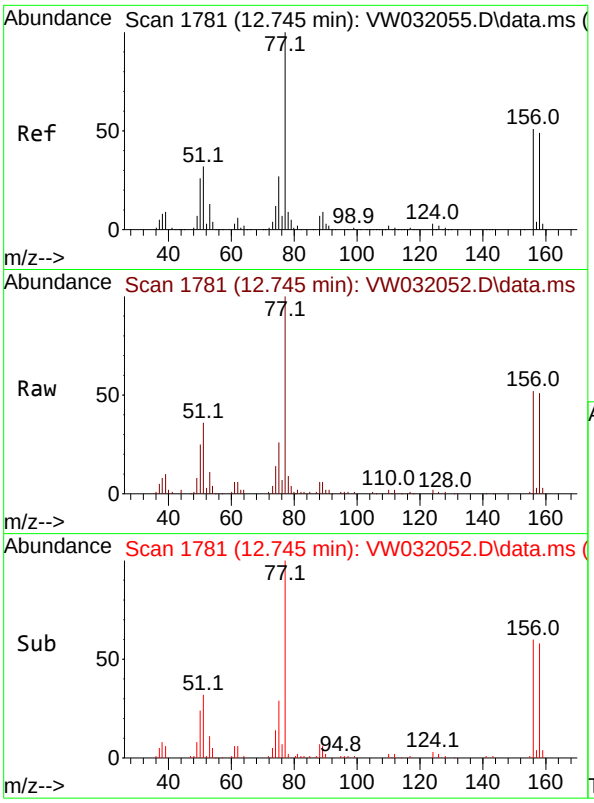


#76
1,2,3-Trichloropropane
Concen: 6.318 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19129

Ion	Ratio	Lower	Upper
75	100		
77	172.4	123.5	370.5



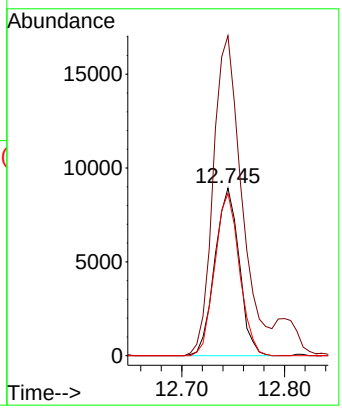


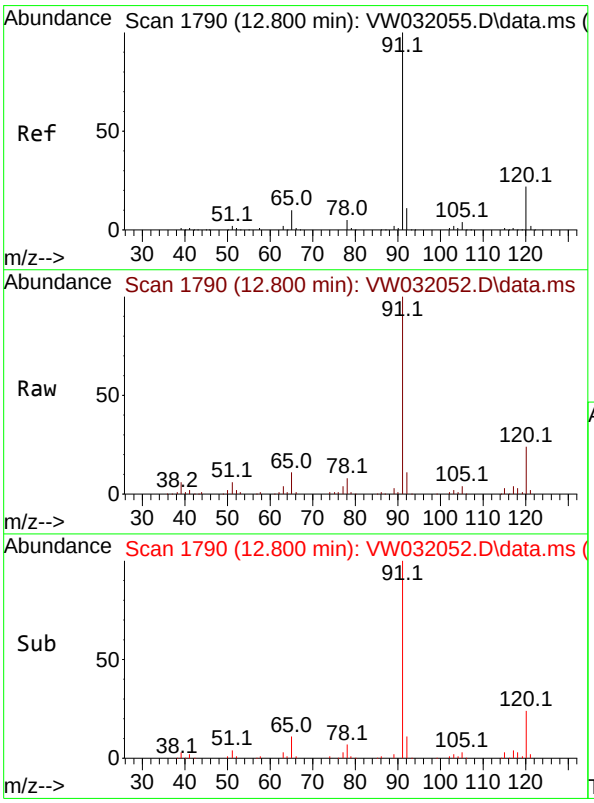
#77
Bromobenzene
Concen: 4.471 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 14698

Ion	Ratio	Lower	Upper
156	100		
77	224.3	108.7	326.3
158	97.7	48.3	144.9

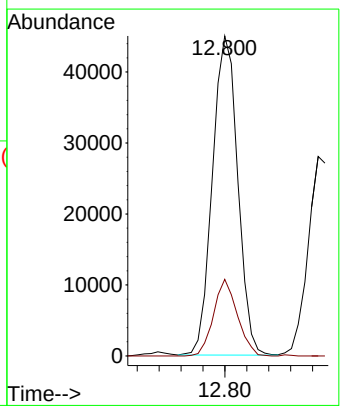


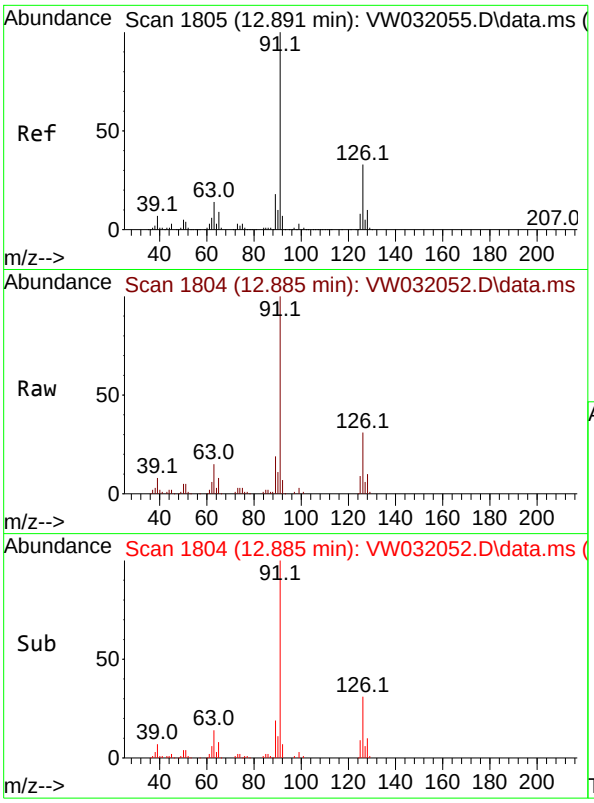


#78
n-propylbenzene
Concen: 4.257 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 72140

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3



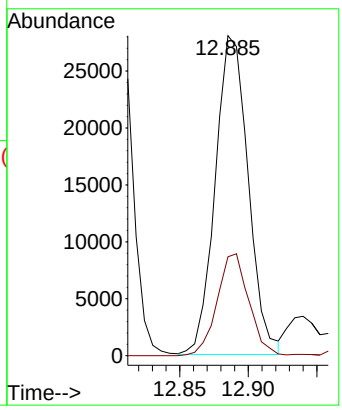


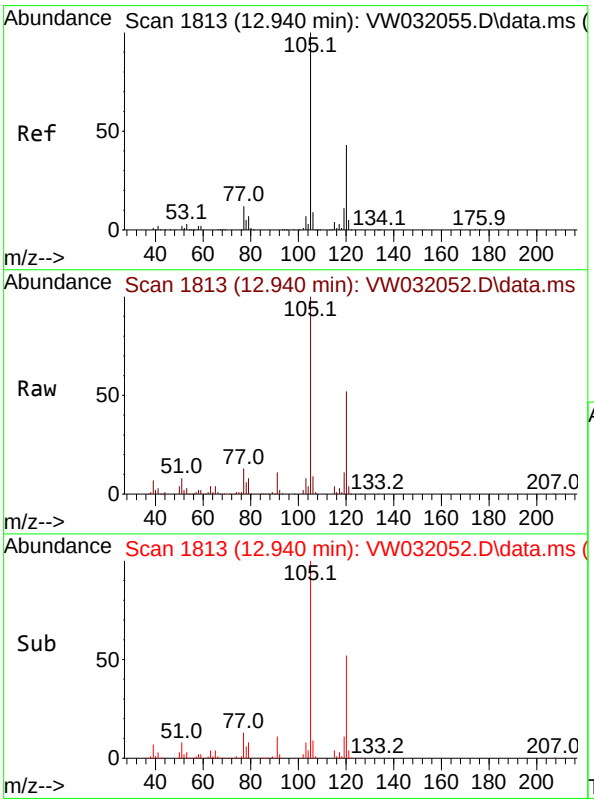
#79
2-Chlorotoluene
Concen: 4.483 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 46879

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

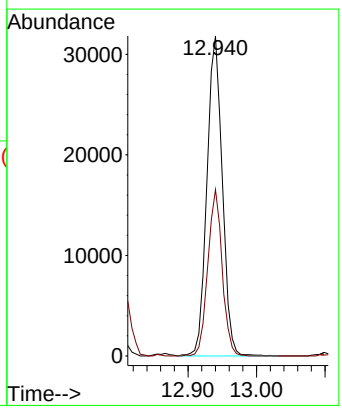


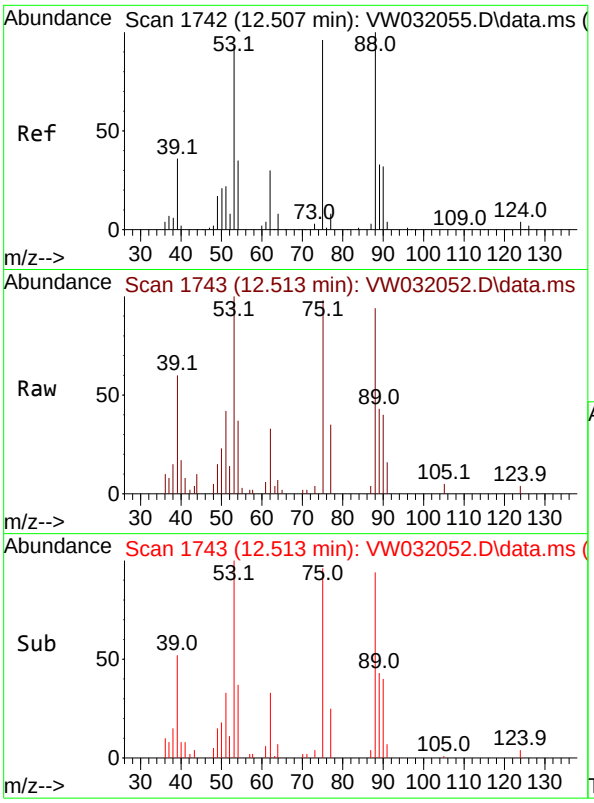


#80
1,3,5-Trimethylbenzene
Concen: 4.245 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49607

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.4	70.0



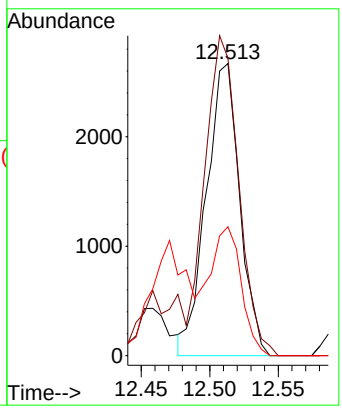


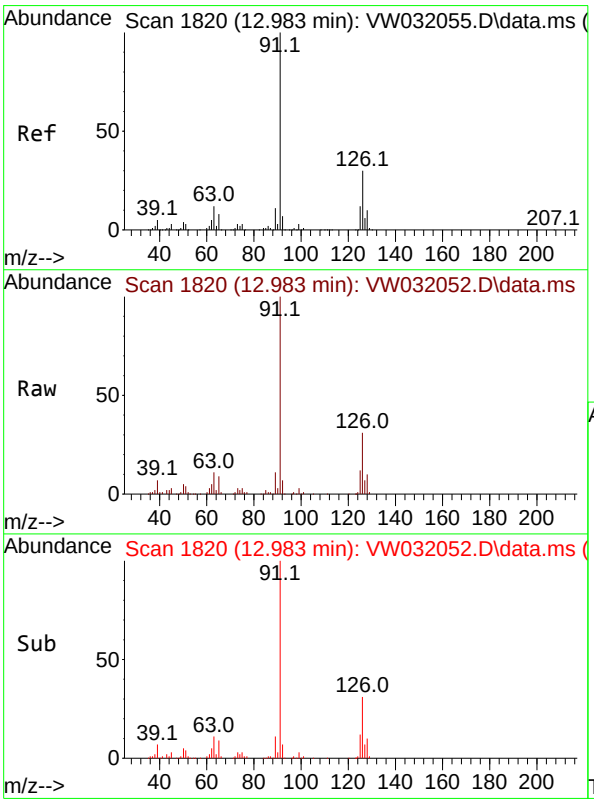
#81
trans-1,4-Dichloro-2-butene
Concen: 4.378 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 4520

Ion	Ratio	Lower	Upper
75	100		
53	110.7	81.0	121.6
89	43.0	37.3	55.9

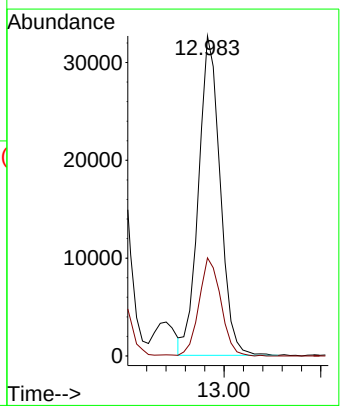


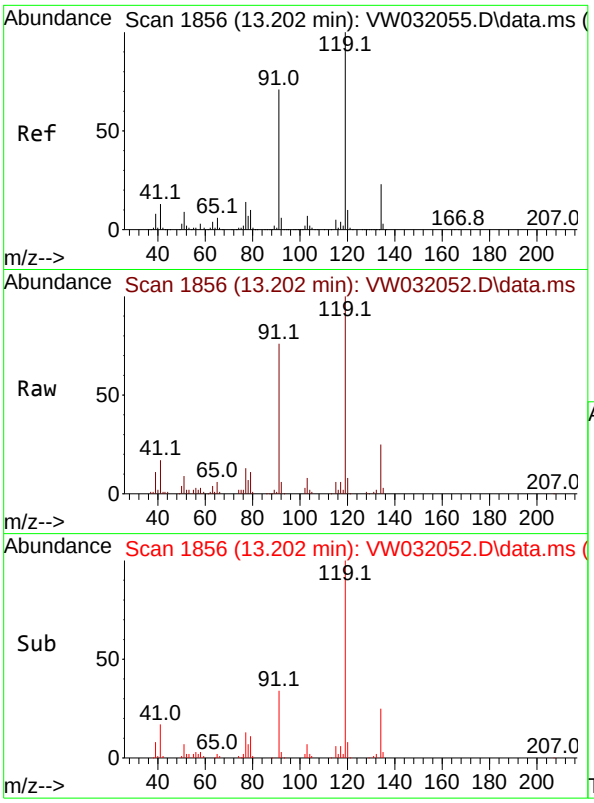


#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 50782

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.5	46.5



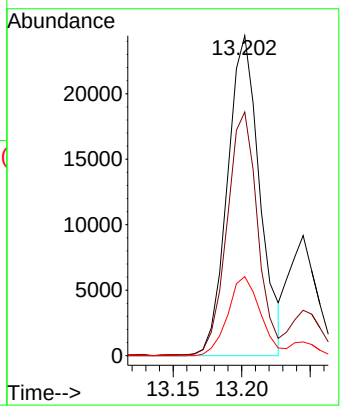


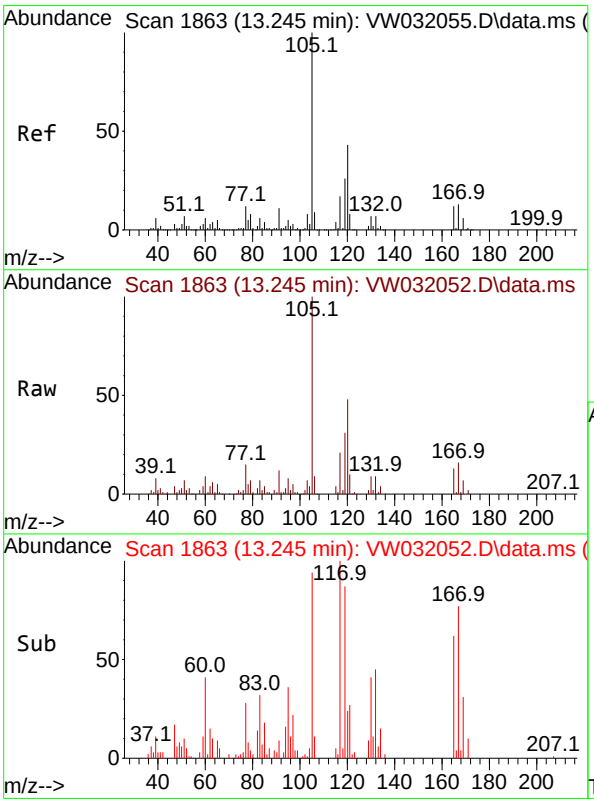
#83
tert-Butylbenzene
Concen: 4.124 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 39993

Ion	Ratio	Lower	Upper
119	100		
91	72.6	35.3	105.9
134	25.1	12.1	36.3

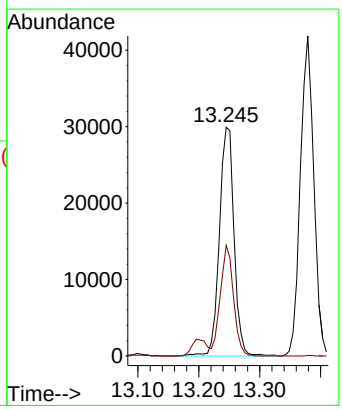


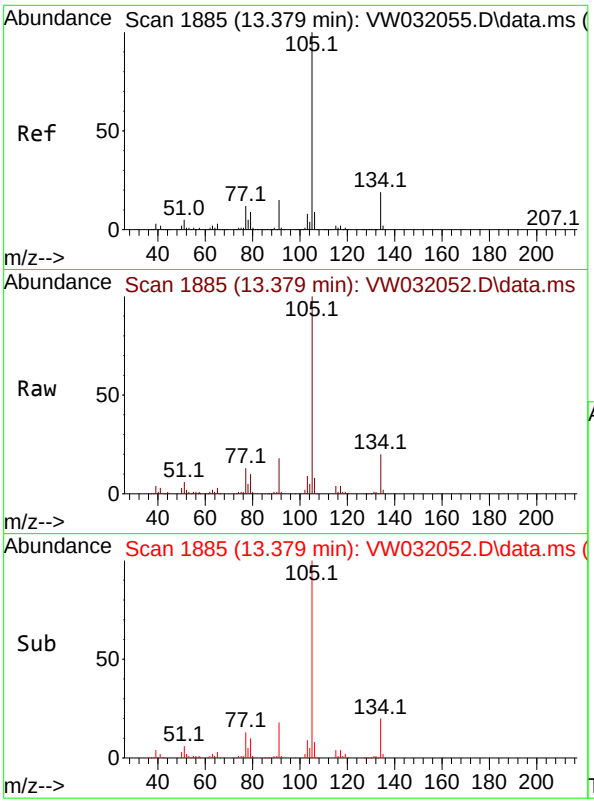


#84
1,2,4-Trimethylbenzene
Concen: 4.194 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49891

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	64.8



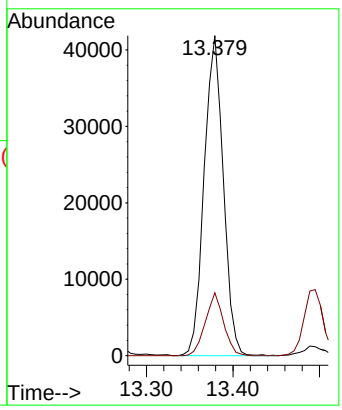


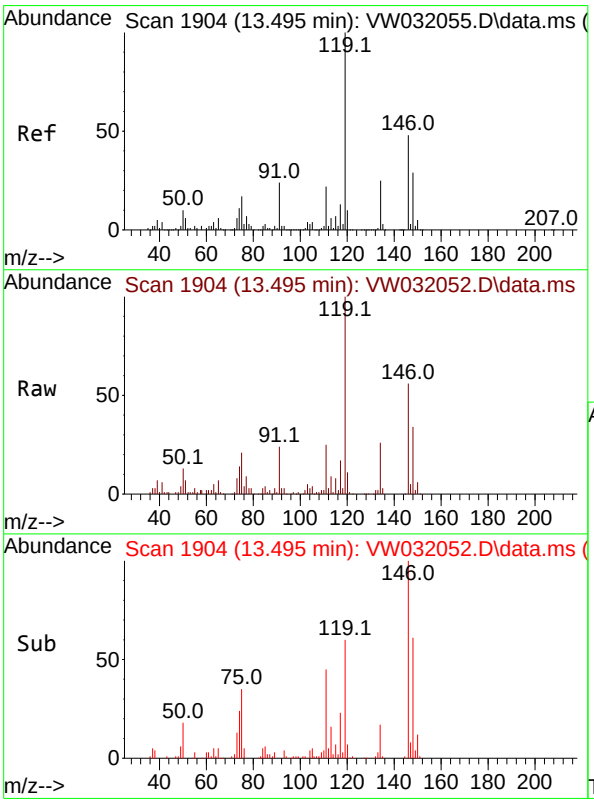
#85
sec-Butylbenzene
Concen: 4.382 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 64254

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

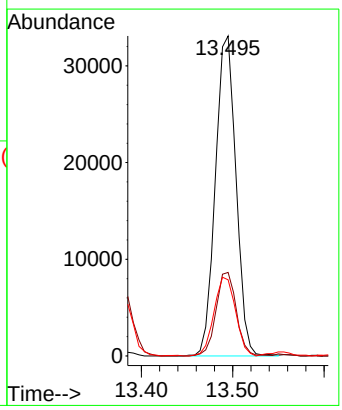


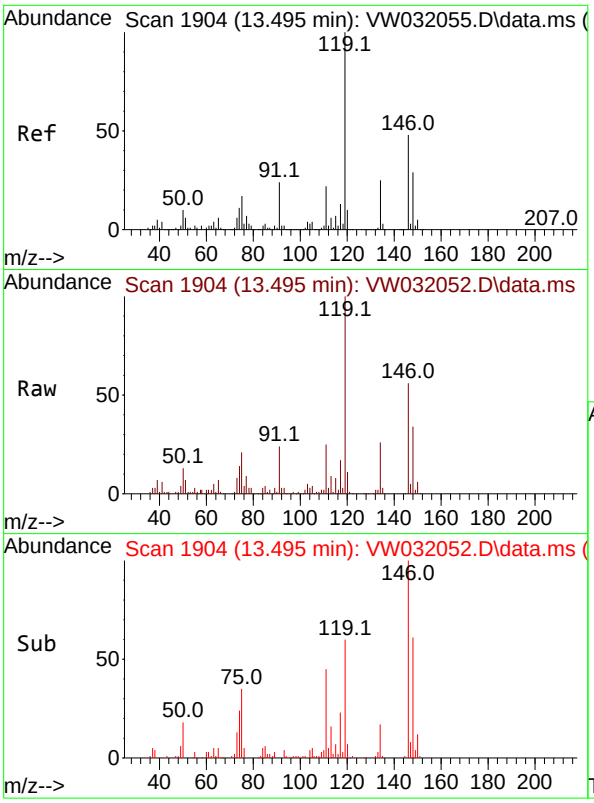


#86
p-Isopropyltoluene
Concen: 4.249 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:119 Resp: 51939

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.4	37.0
91	25.7	12.1	36.3



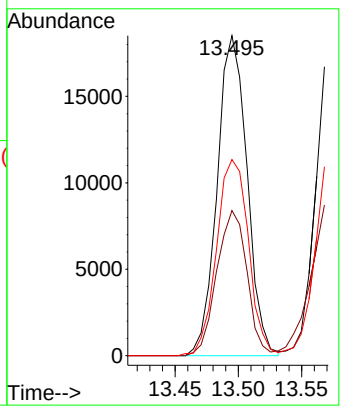


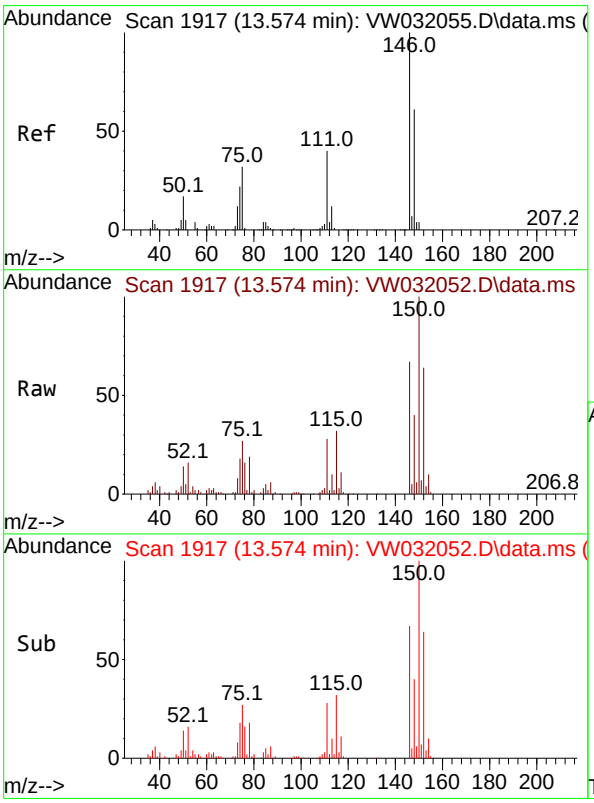
#87
1,3-Dichlorobenzene
Concen: 4.654 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 30445

Ion	Ratio	Lower	Upper
146	100		
111	45.7	21.2	63.6
148	65.5	30.3	90.8

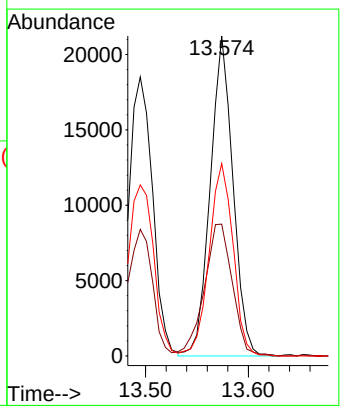


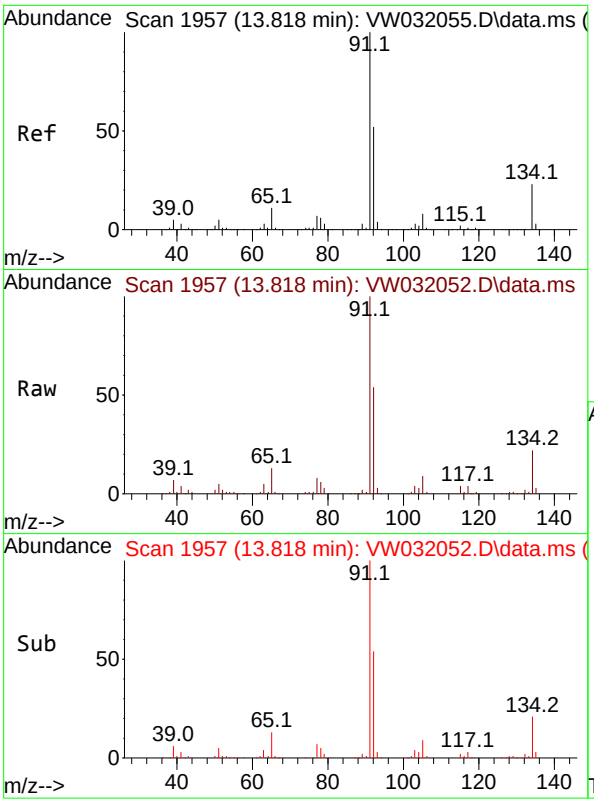


#88
1,4-Dichlorobenzene
Concen: 4.925 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 32554

Ion	Ratio	Lower	Upper
146	100		
111	51.0	21.6	64.6
148	63.5	32.0	96.2



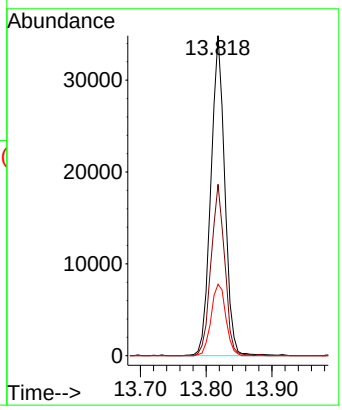


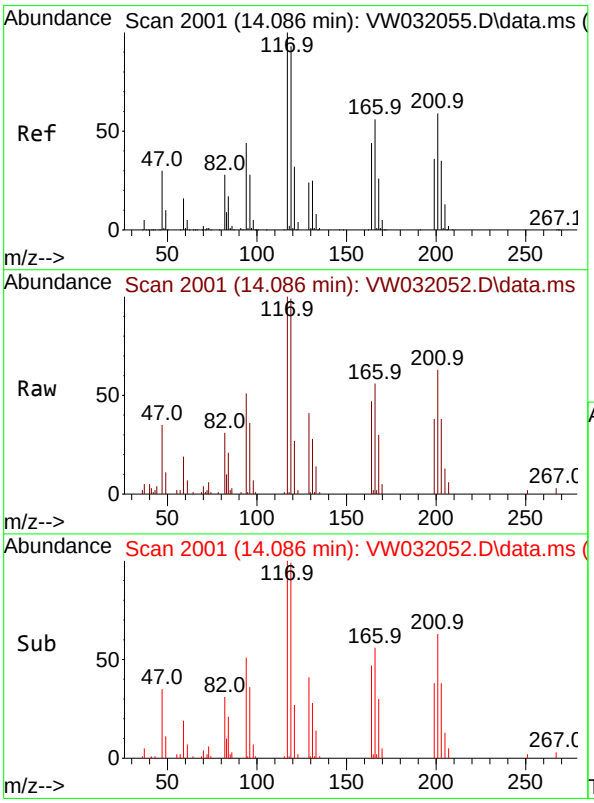
#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 51328

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.7	80.1
134	23.5	12.0	36.1

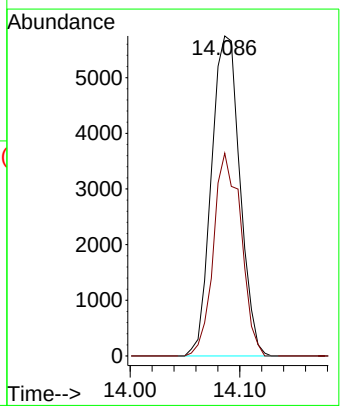


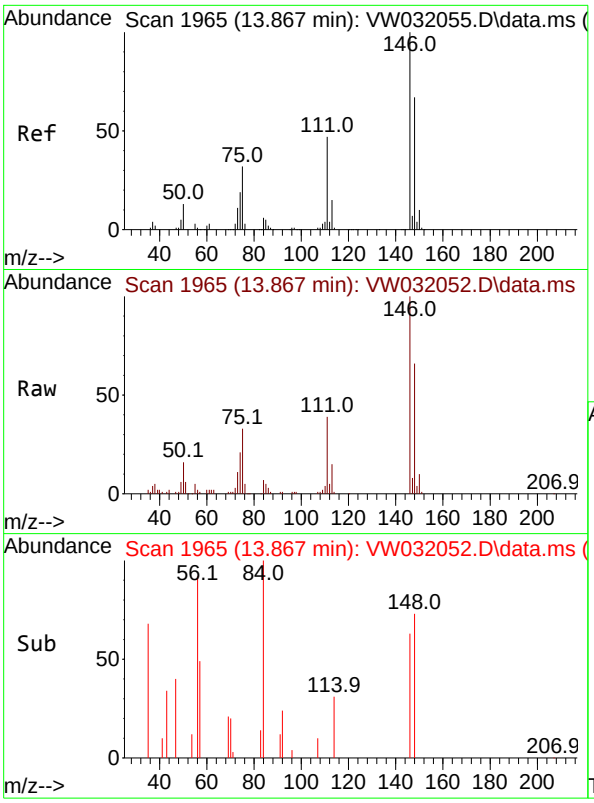


#90
Hexachloroethane
Concen: 4.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 10372

Ion	Ratio	Lower	Upper
117	100		
201	61.2	30.9	92.5



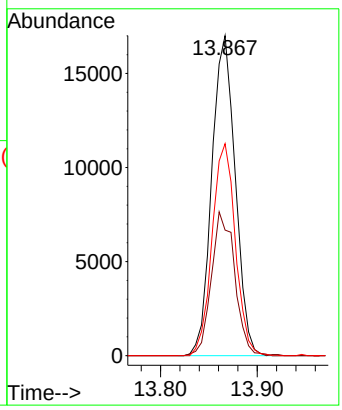


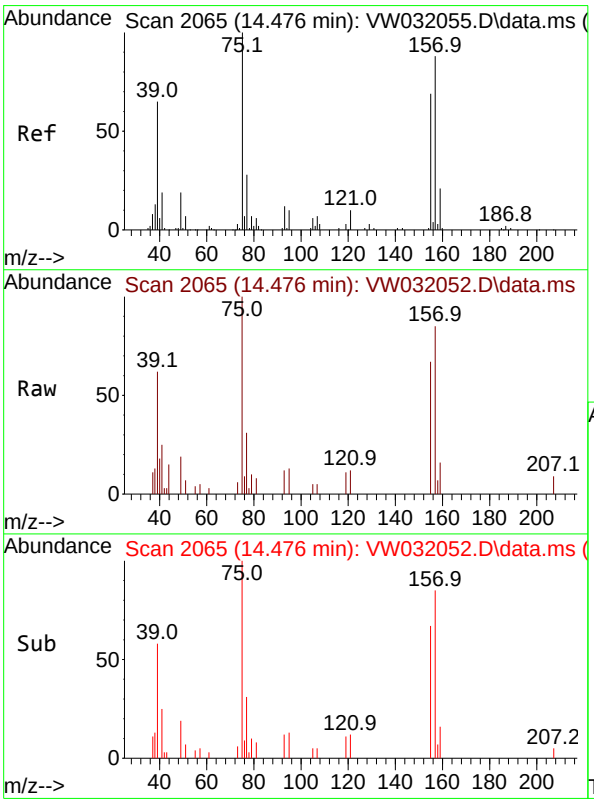
#91
1,2-Dichlorobenzene
Concen: 4.836 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 28653

Ion	Ratio	Lower	Upper
146	100		
111	44.7	23.1	69.3
148	65.7	32.9	98.6

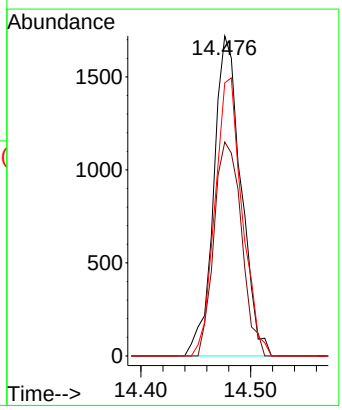


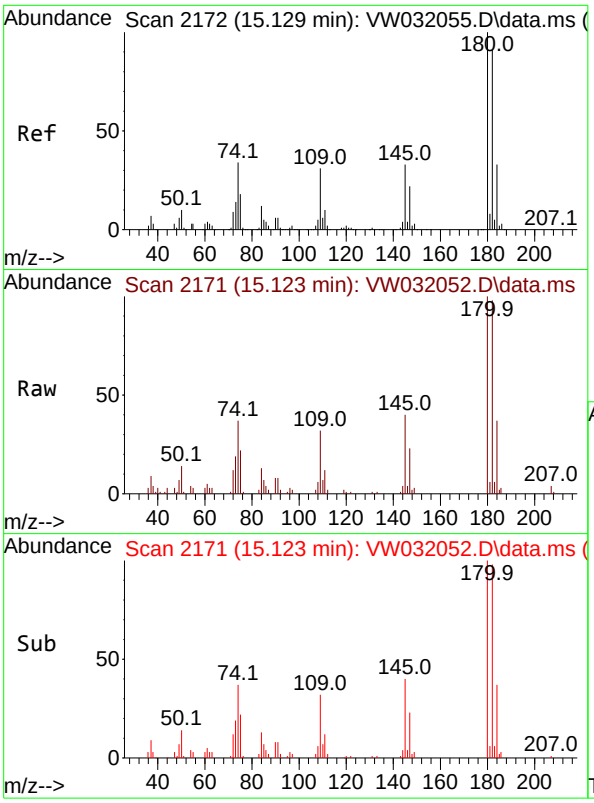


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.123 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 2976

Ion	Ratio	Lower	Upper
75	100		
155	67.4	35.2	105.6
157	86.2	47.5	142.6



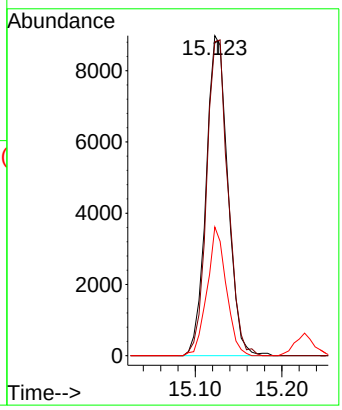


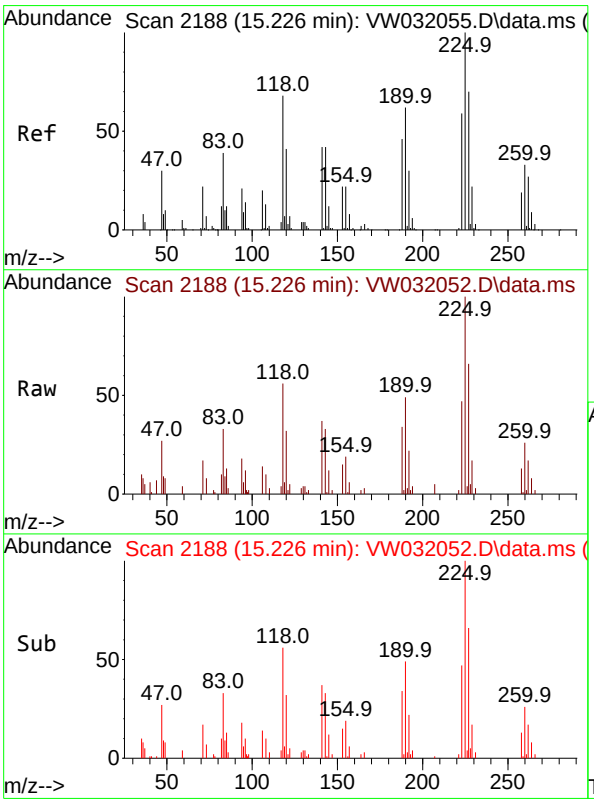
#93
1,2,4-Trichlorobenzene
Concen: 4.414 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 15646

Ion	Ratio	Lower	Upper
180	100		
182	96.8	49.0	147.0
145	35.4	17.3	51.9

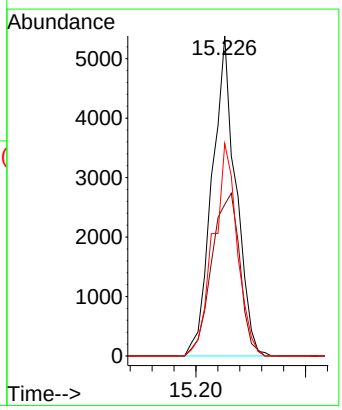


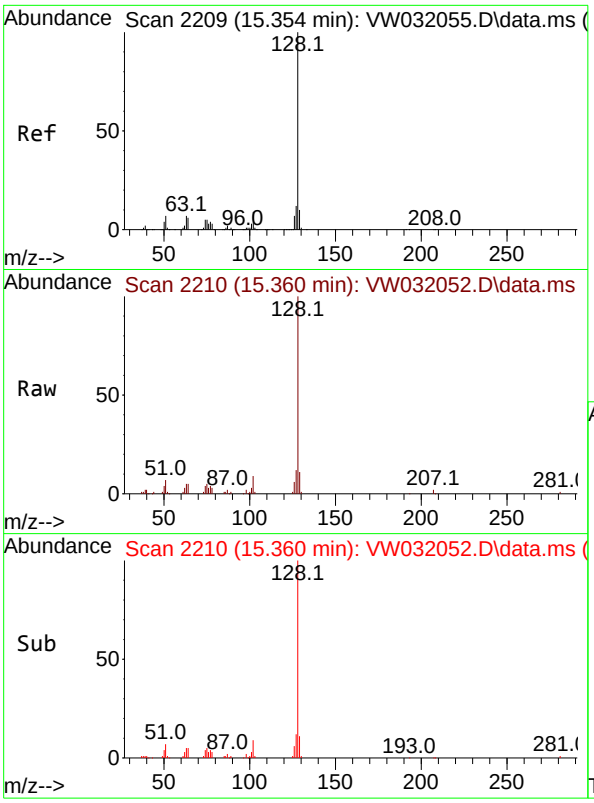


#94
Hexachlorobutadiene
Concen: 5.118 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:225 Resp: 8109

Ion	Ratio	Lower	Upper
225	100		
223	60.1	31.8	95.3
227	66.8	33.5	100.5



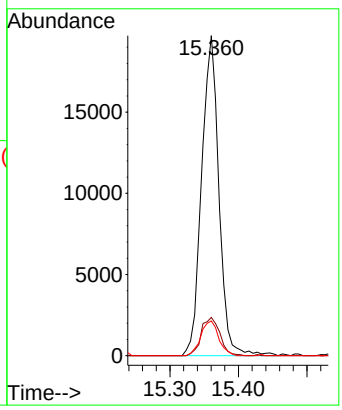


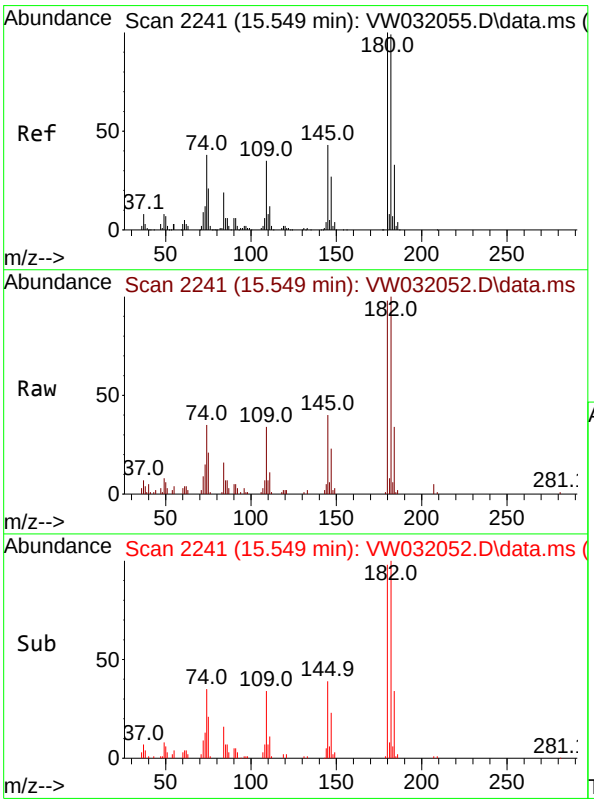
#95
Naphthalene
Concen: 3.991 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 34667

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.2	8.2	12.4

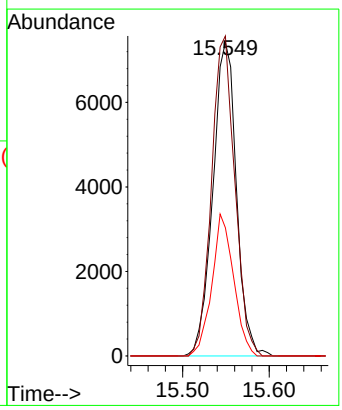




#96
1,2,3-Trichlorobenzene
Concen: 4.357 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:180 Resp: 14053

Ion	Ratio	Lower	Upper
180	100		
182	100.4	46.0	138.0
145	41.7	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	225221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	426784	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	385631	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	181281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	33671	10.337	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	20.680%#		
35) Dibromofluoromethane	7.904	113	27978	10.147	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	20.300%#		
50) Toluene-d8	10.331	98	100702	9.875	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	19.740%#		
62) 4-Bromofluorobenzene	12.617	95	36748	9.778	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	19.560%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.039	85	17258	10.714	ug/l	99
3) Chloromethane	2.253	50	21693	9.998	ug/l	91
4) Vinyl Chloride	2.405	62	27978	10.660	ug/l	92
5) Bromomethane	2.826	94	20345	10.332	ug/l	93
6) Chloroethane	2.966	64	17509	10.081	ug/l	98
7) Trichlorofluoromethane	3.301	101	19623	9.333	ug/l	99
8) Diethyl Ether	3.716	74	17227	10.000	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.100	101	25491	10.276	ug/l	99
10) Methyl Iodide	4.301	142	35515	10.098	ug/l	98
11) Tert butyl alcohol	5.228	59	10754	50.985	ug/l	98
12) 1,1-Dichloroethene	4.082	96	27944	10.231	ug/l	99
13) Acrolein	3.929	56	18650	55.493	ug/l	94
14) Allyl chloride	4.704	41	39114	9.839	ug/l	100
15) Acrylonitrile	5.405	53	42536	51.842	ug/l	100
16) Acetone	4.161	43	40816	54.122	ug/l	99
17) Carbon Disulfide	4.423	76	72806	9.931	ug/l	97
18) Methyl Acetate	4.716	43	27191	11.394	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	47872	9.947	ug/l	97
20) Methylene Chloride	4.960	84	35462	10.170	ug/l	95
21) trans-1,2-Dichloroethene	5.454	96	28875	9.962	ug/l	93
22) Diisopropyl ether	6.344	45	84045	10.029	ug/l	97
23) Vinyl Acetate	6.283	43	259050	47.081	ug/l	99
24) 1,1-Dichloroethane	6.240	63	54051	10.095	ug/l	98
25) 2-Butanone	7.197	43	54327	50.685	ug/l	98
26) 2,2-Dichloropropane	7.185	77	27463	10.224	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	33173	9.791	ug/l	99
28) Bromochloromethane	7.532	49	24412	10.019	ug/l	99
29) Tetrahydrofuran	7.557	42	35909	50.800	ug/l	99
30) Chloroform	7.697	83	57170	10.071	ug/l	99
31) Cyclohexane	7.971	56	48633	10.477	ug/l #	95
32) 1,1,1-Trichloroethane	7.886	97	42747	10.368	ug/l	97
36) 1,1-Dichloropropene	8.093	75	38994	10.032	ug/l	99
37) Ethyl Acetate	7.276	43	23053	10.070	ug/l	96
38) Carbon Tetrachloride	8.081	117	37535	10.007	ug/l	91
39) Methylcyclohexane	9.343	83	46100	9.731	ug/l	96
40) Benzene	8.337	78	121462	10.053	ug/l	95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	11729	9.035	ug/l	#	90
42) 1,2-Dichloroethane	8.410	62	39882	10.316	ug/l		100
43) Isopropyl Acetate	8.435	43	41036	9.743	ug/l		98
44) Trichloroethene	9.105	130	28498	9.905	ug/l		99
45) 1,2-Dichloropropane	9.374	63	29199	10.004	ug/l		98
46) Dibromomethane	9.471	93	18653	9.901	ug/l		98
47) Bromodichloromethane	9.654	83	42618	9.818	ug/l		98
48) Methyl methacrylate	9.441	41	19654	9.666	ug/l		98
49) 1,4-Dioxane	9.465	88	4684	192.302	ug/l		99
51) 4-Methyl-2-Pentanone	10.215	43	121419	51.075	ug/l		99
52) Toluene	10.392	92	75250	9.888	ug/l		100
53) t-1,3-Dichloropropene	10.605	75	38397	9.441	ug/l		96
54) cis-1,3-Dichloropropene	10.075	75	44031	9.543	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	25277	10.097	ug/l		96
56) Ethyl methacrylate	10.648	69	31022	9.260	ug/l		97
57) 1,3-Dichloropropane	10.934	76	44743	10.254	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	88627	47.830	ug/l		100
59) 2-Hexanone	10.971	43	82830	50.310	ug/l		97
60) Dibromochloromethane	11.129	129	27954	9.776	ug/l		100
61) 1,2-Dibromoethane	11.239	107	24146	9.926	ug/l		99
64) Tetrachloroethene	10.867	164	23235	10.431	ug/l		90
65) Chlorobenzene	11.660	112	86096	10.257	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.733	131	26286	10.037	ug/l		97
67) Ethyl Benzene	11.733	91	139254	9.794	ug/l		98
68) m/p-Xylenes	11.837	106	108990	19.866	ug/l		98
69) o-Xylene	12.166	106	49259	9.714	ug/l		97
70) Styrene	12.184	104	87542	9.719	ug/l		99
71) Bromoform	12.349	173	14547	9.711	ug/l	#	97
73) Isopropylbenzene	12.464	105	125246	9.886	ug/l		98
74) N-amyl acetate	12.269	43	35636	9.804	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.714	83	31581	10.499	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	39515	14.180	ug/l		58
77) Bromobenzene	12.745	156	31656	10.462	ug/l		98
78) n-propylbenzene	12.800	91	156266	10.019	ug/l		98
79) 2-Chlorotoluene	12.891	91	96942	10.071	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	108123	10.053	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.513	75	8936	9.403	ug/l		90
82) 4-Chlorotoluene	12.989	91	103329	10.103	ug/l		100
83) tert-Butylbenzene	13.202	119	86848	9.729	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	110697	10.110	ug/l		99
85) sec-Butylbenzene	13.379	105	131663	9.756	ug/l		98
86) p-Isopropyltoluene	13.495	119	110557	9.827	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	62383	10.361	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	62843	10.328	ug/l		98
89) n-Butylbenzene	13.818	91	108004	9.881	ug/l		99
90) Hexachloroethane	14.086	117	20175	9.805	ug/l		96
91) 1,2-Dichlorobenzene	13.867	146	56501	10.359	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.482	75	5305	9.920	ug/l		95
93) 1,2,4-Trichlorobenzene	15.129	180	31816	9.751	ug/l		97
94) Hexachlorobutadiene	15.232	225	14987	10.276	ug/l		98
95) Naphthalene	15.360	128	76287	9.542	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	28678	9.660	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

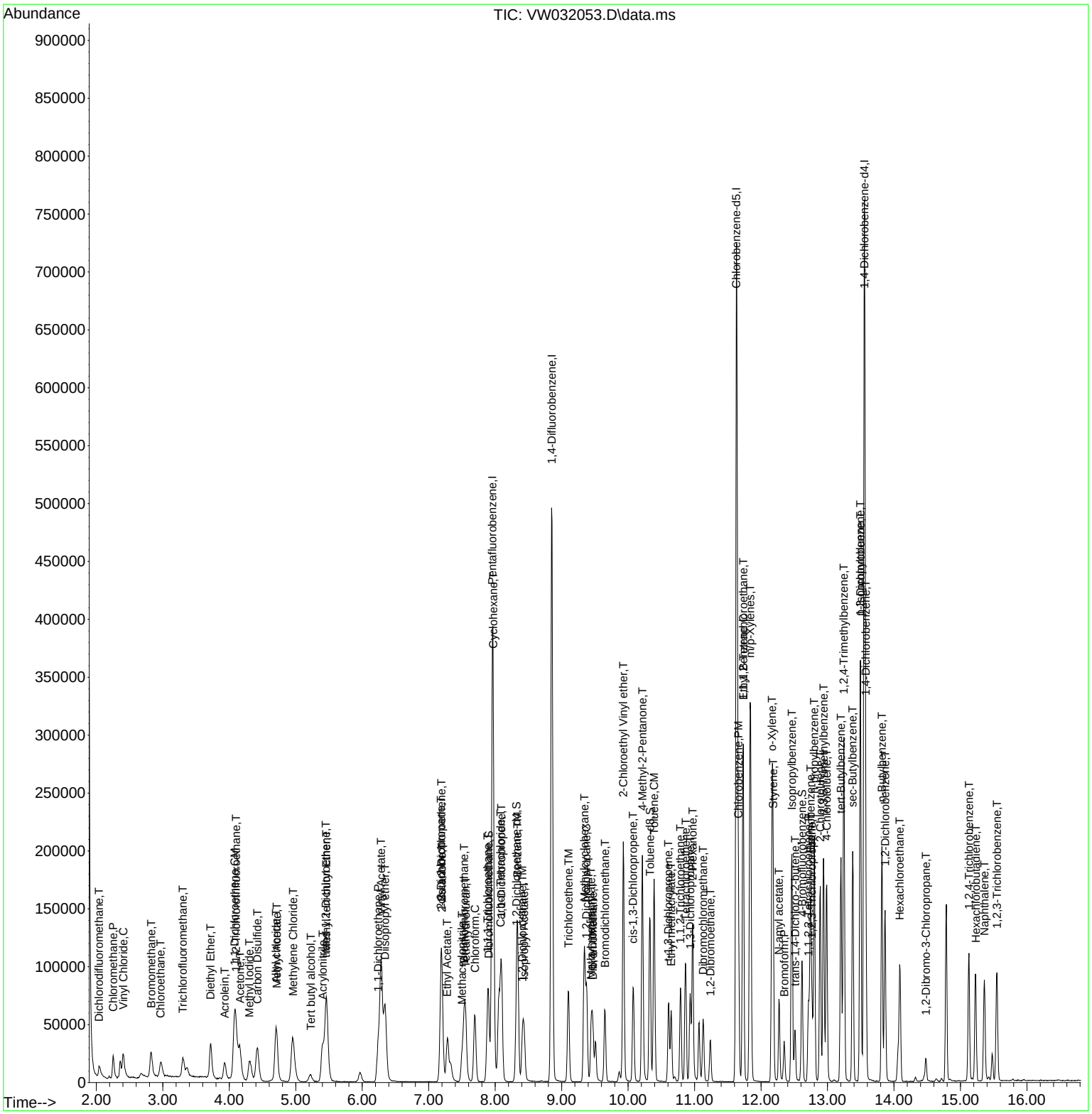
(#) = qualifier out of range (m) = manual integration (+) = signals summed

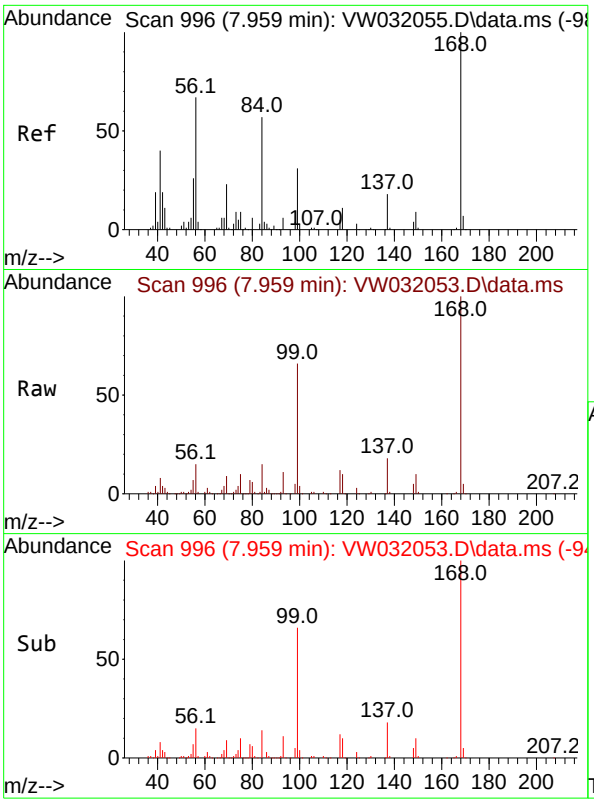
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



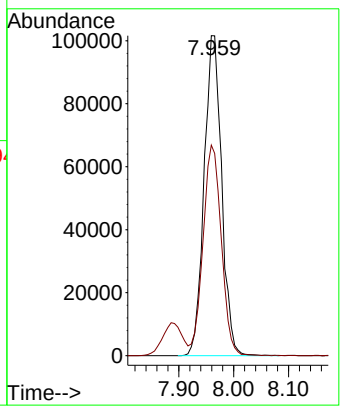


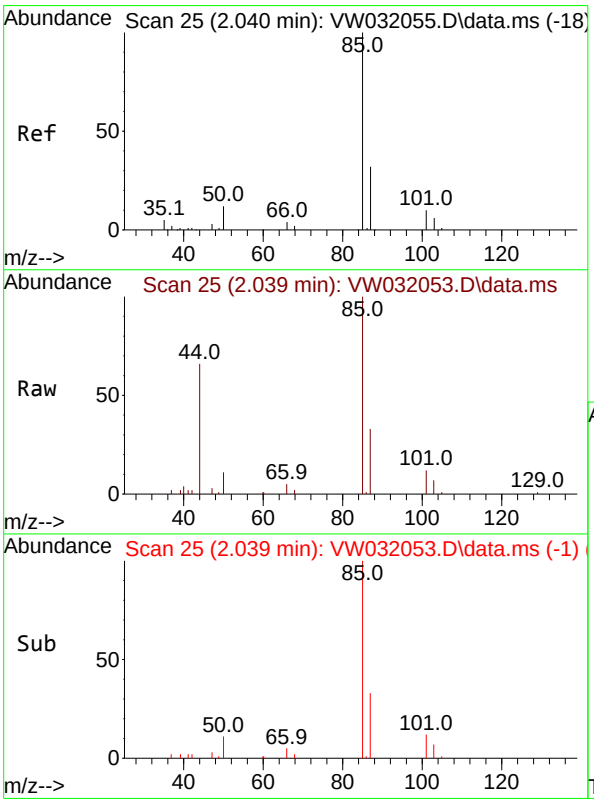
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 225221

Ion	Ratio	Lower	Upper
168	100		
99	65.7	56.0	84.0

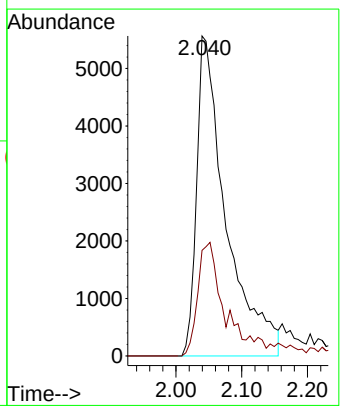


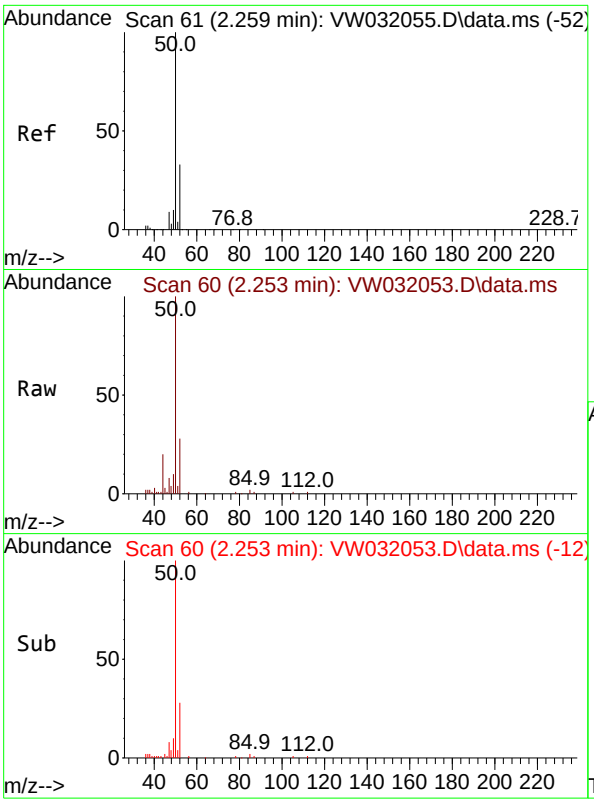


#2
Dichlorodifluoromethane
Concen: 10.714 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 85 Resp: 17258

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.2	48.6



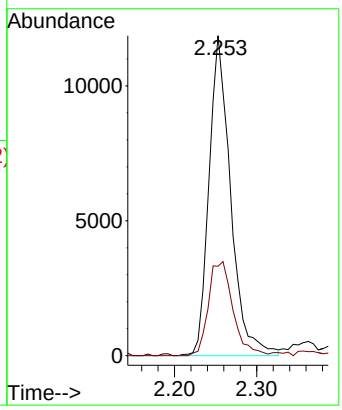


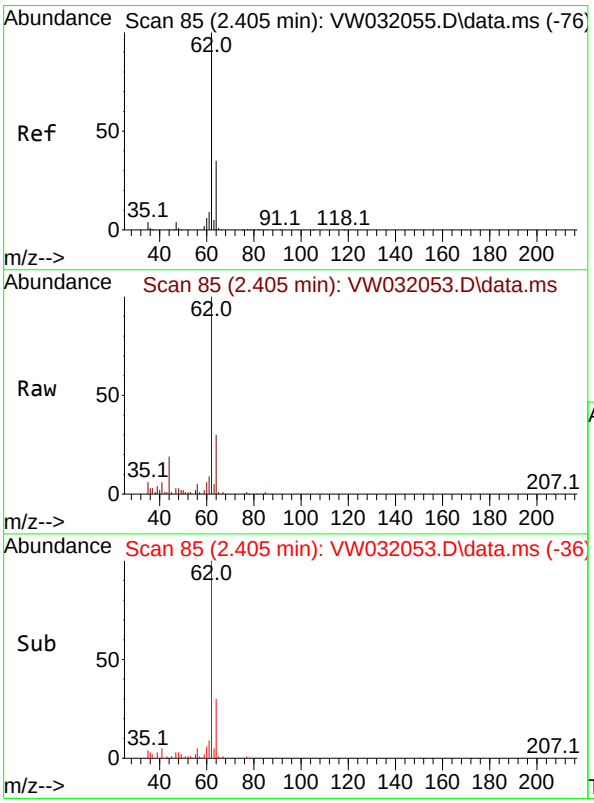
#3
Chloromethane
Concen: 9.998 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 21693

Ion	Ratio	Lower	Upper
50	100		
52	27.9	26.6	39.8

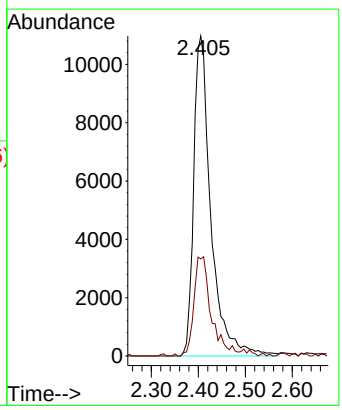


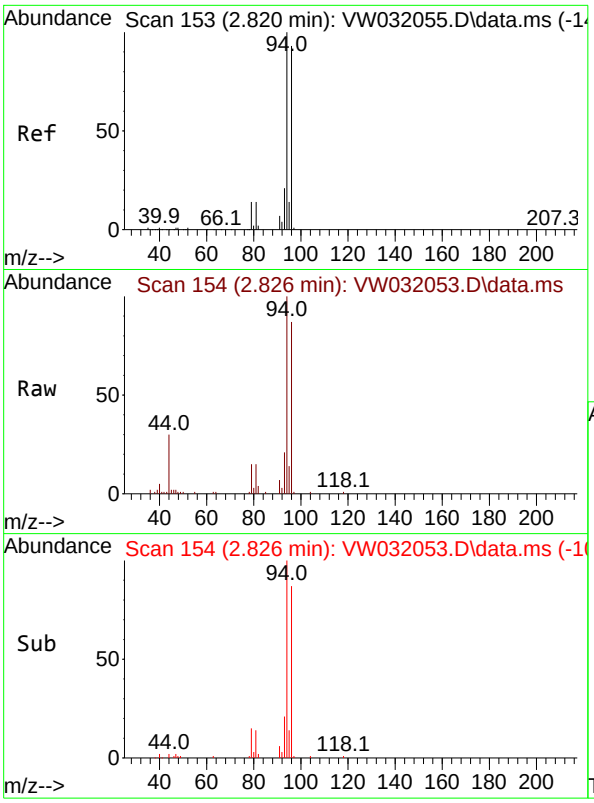


#4
Vinyl Chloride
Concen: 10.660 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 27978

Ion	Ratio	Lower	Upper
62	100		
64	30.3	27.8	41.6



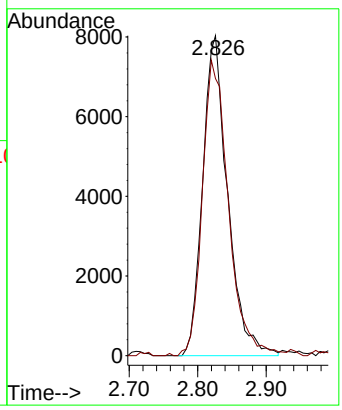


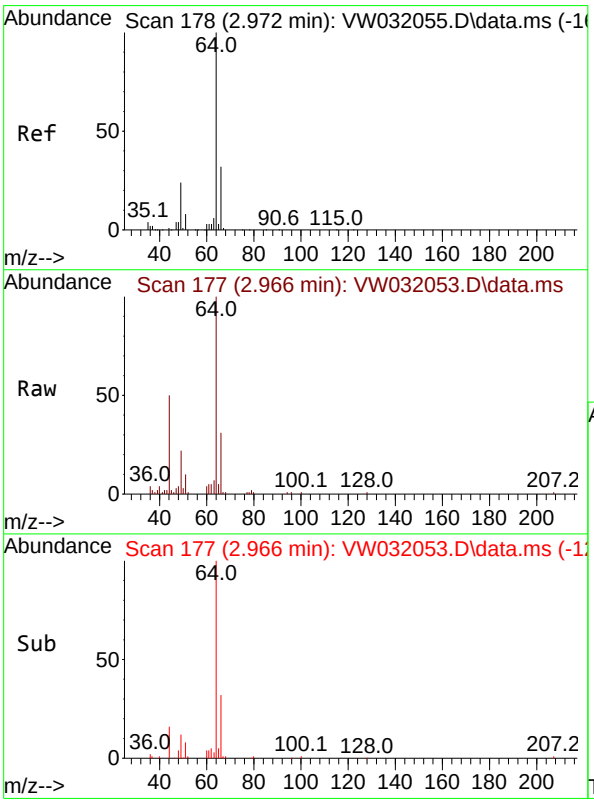
#5
Bromomethane
Concen: 10.332 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 20345

Ion	Ratio	Lower	Upper
94	100		
96	86.6	74.7	112.1

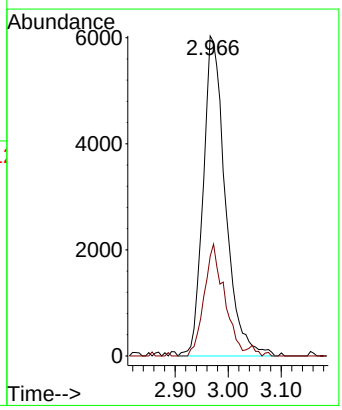


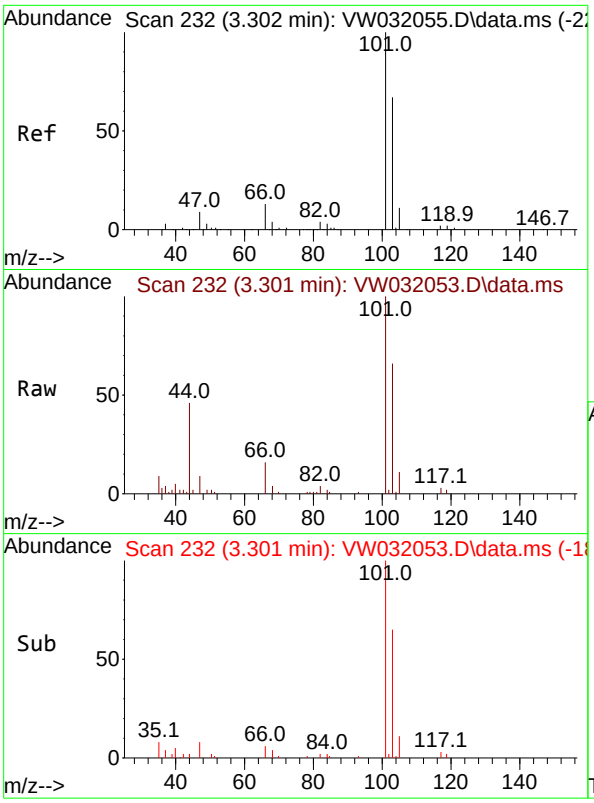


#6
Chloroethane
Concen: 10.081 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 64 Resp: 17509

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.0	39.0



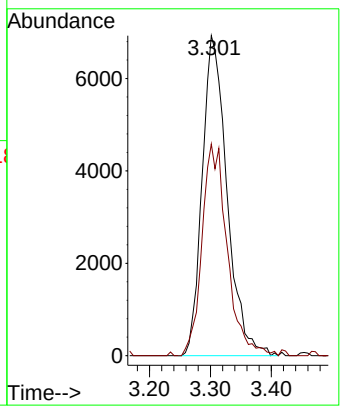


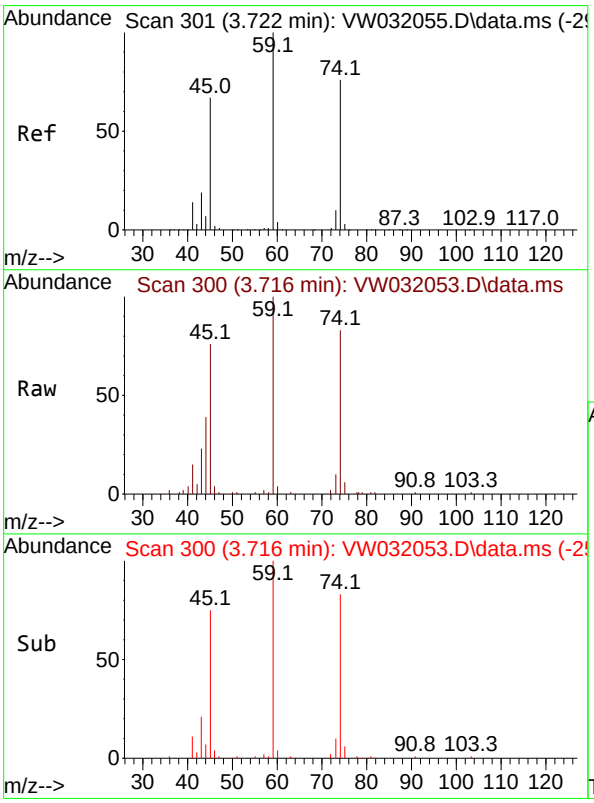
#7
Trichlorofluoromethane
Concen: 9.333 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 19623

Ion	Ratio	Lower	Upper
101	100		
103	66.2	53.4	80.0

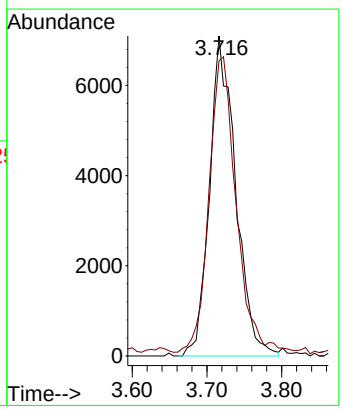


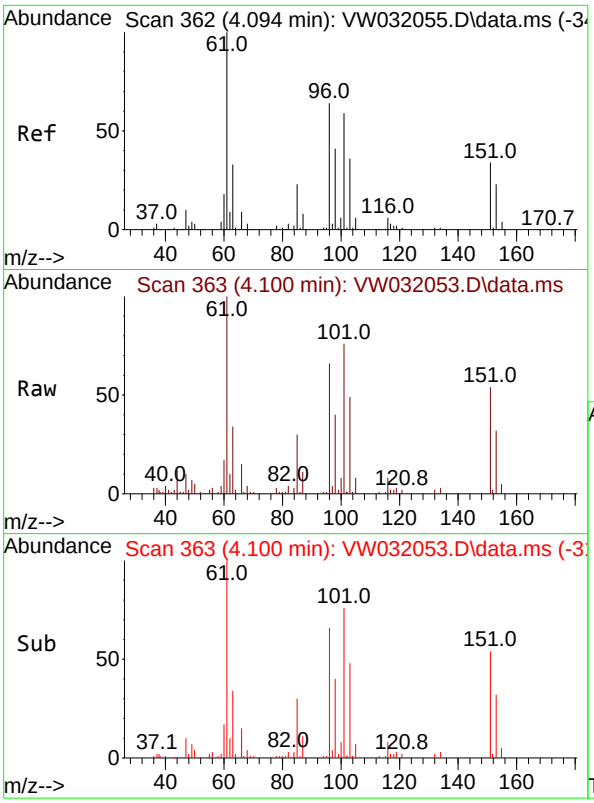


#8
Diethyl Ether
Concen: 10.000 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 74 Resp: 17227

Ion	Ratio	Lower	Upper
74	100		
45	95.9	45.4	136.2



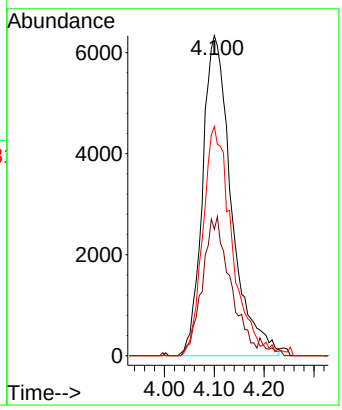


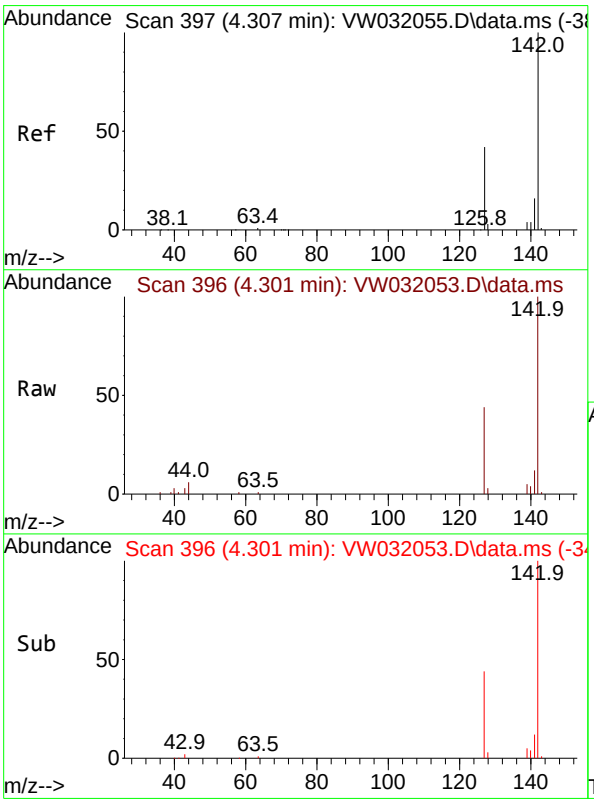
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.276 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 25491

Ion	Ratio	Lower	Upper
101	100		
85	42.4	34.9	52.3
151	70.9	56.2	84.4

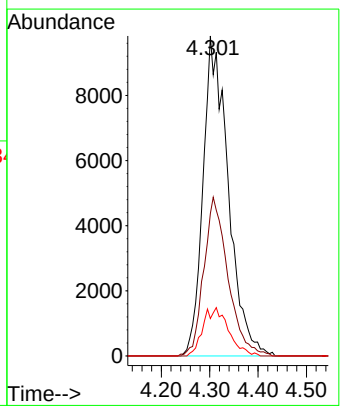


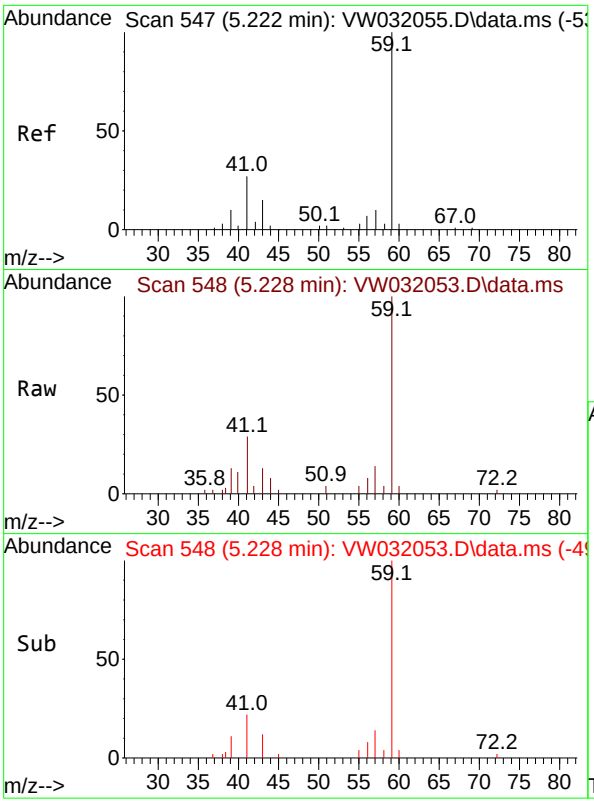


#10
Methyl Iodide
Concen: 10.098 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:142 Resp: 35515

Ion	Ratio	Lower	Upper
142	100		
127	47.6	36.6	55.0
141	15.4	12.1	18.1



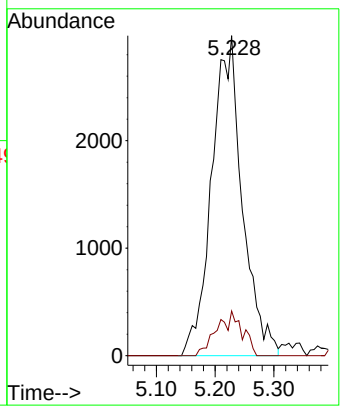


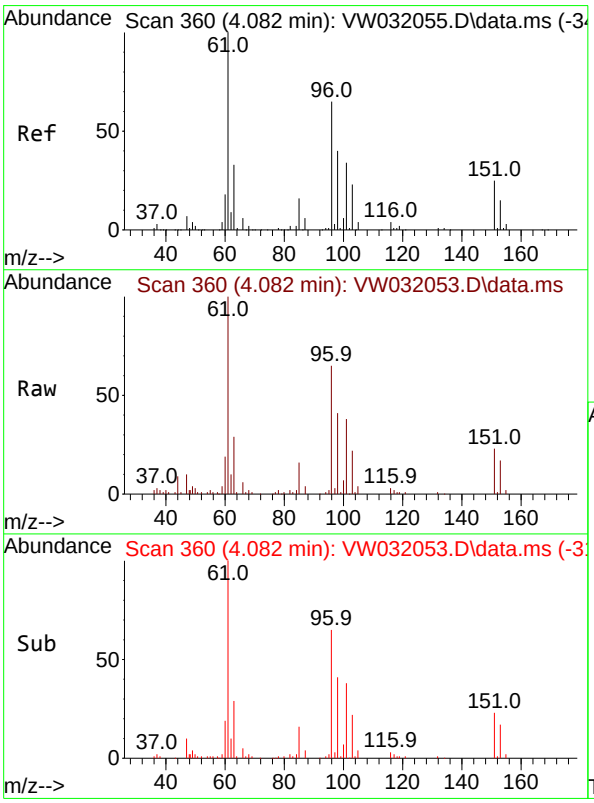
#11
Tert butyl alcohol
Concen: 50.985 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 10754

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.7	13.1

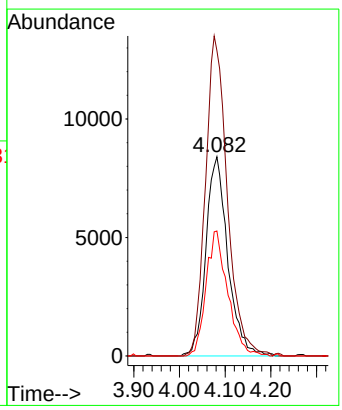


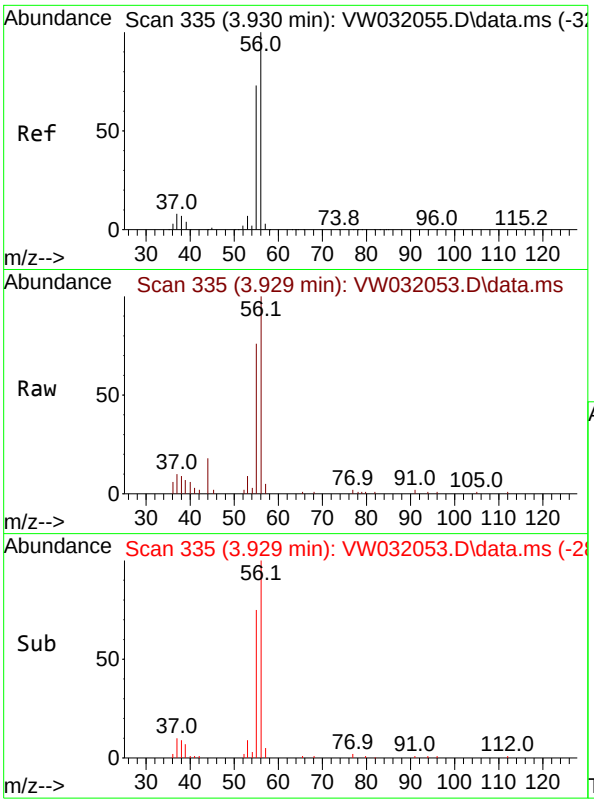


#12
1,1-Dichloroethene
Concen: 10.231 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 27944

Ion	Ratio	Lower	Upper
96	100		
61	153.3	123.4	185.2
98	62.7	49.5	74.3



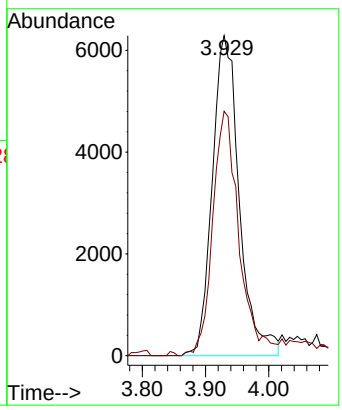


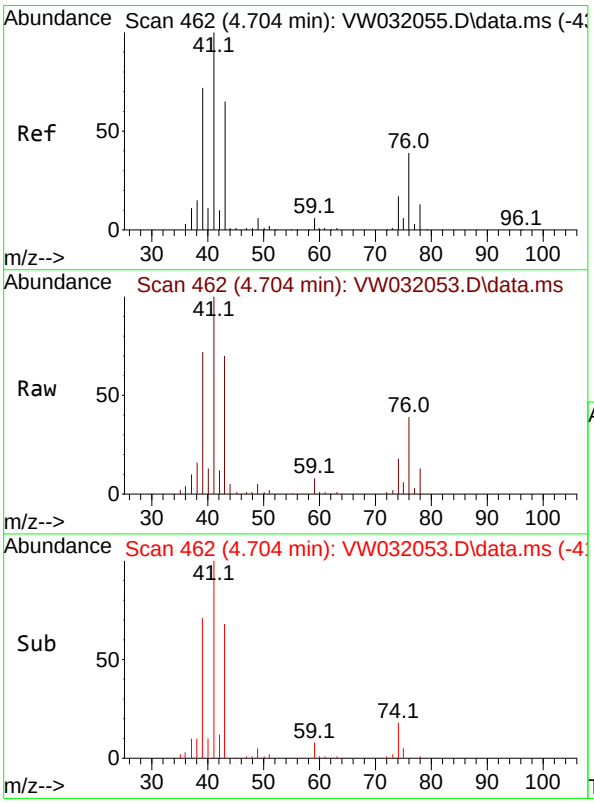
#13
Acrolein
Concen: 55.493 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 18650

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.4	83.2

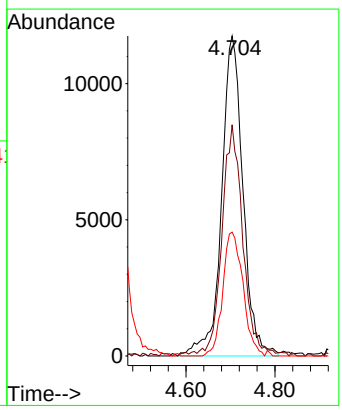


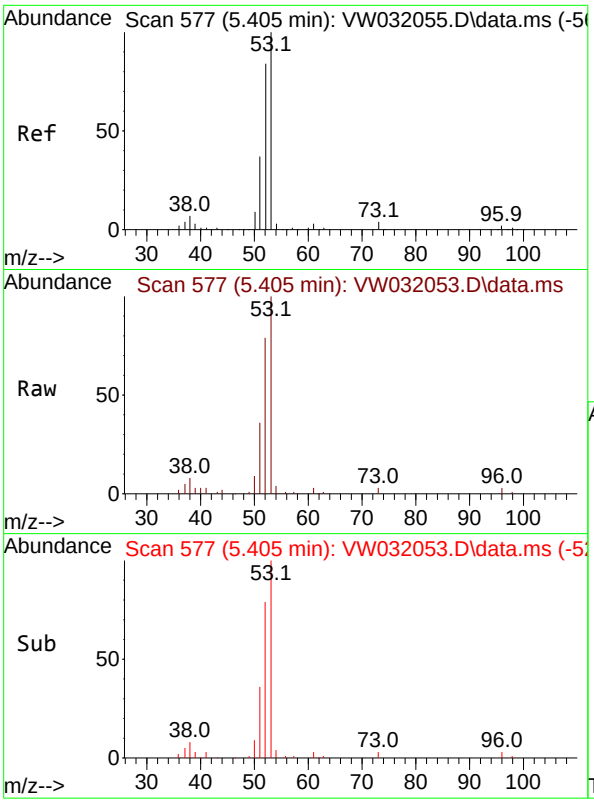


#14
Allyl chloride
Concen: 9.839 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 39114

Ion	Ratio	Lower	Upper
41	100		
39	68.2	54.5	81.7
76	36.6	29.3	43.9



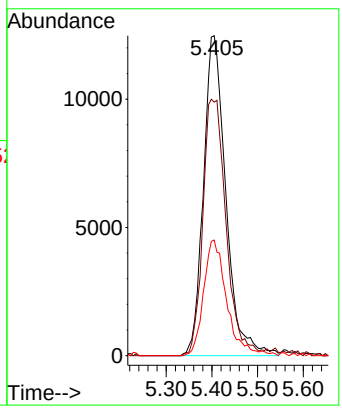


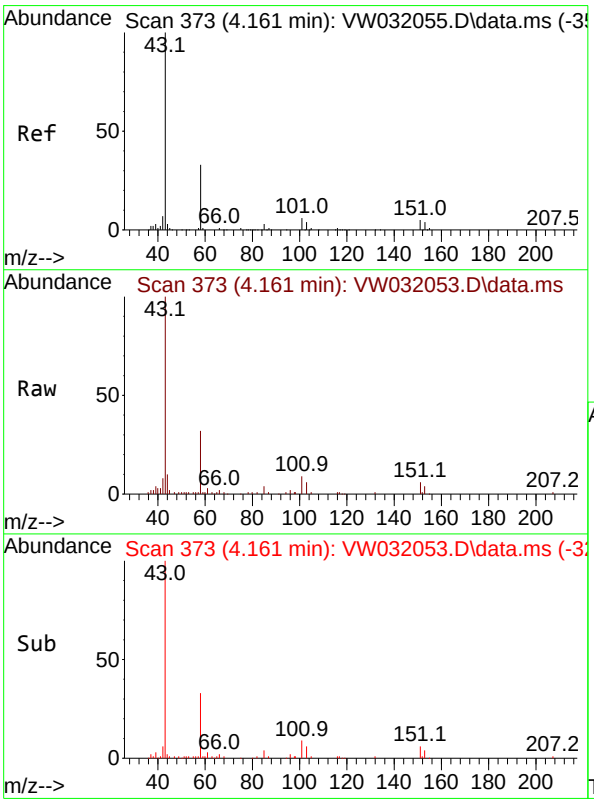
#15
Acrylonitrile
Concen: 51.842 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 42536

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.1	99.1
51	37.3	29.2	43.8

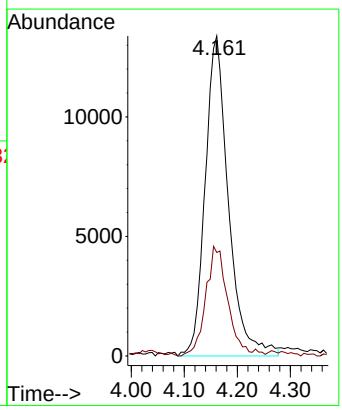


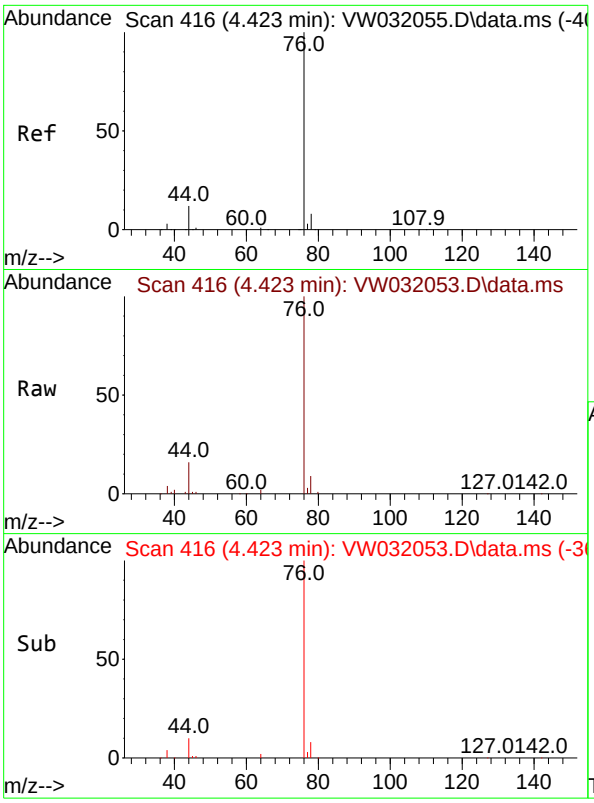


#16
Acetone
Concen: 54.122 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 40816

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	39.8



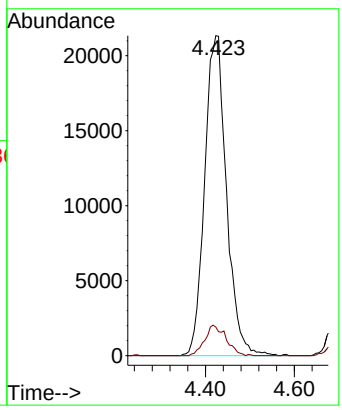


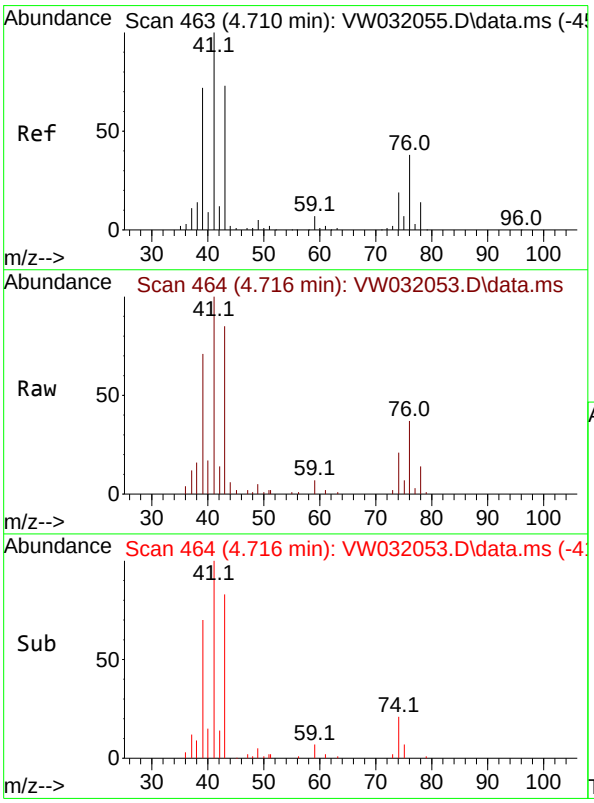
#17
Carbon Disulfide
Concen: 9.931 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 72806

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6

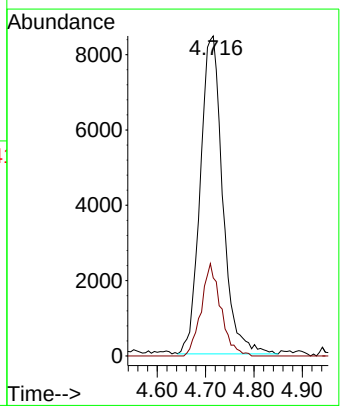


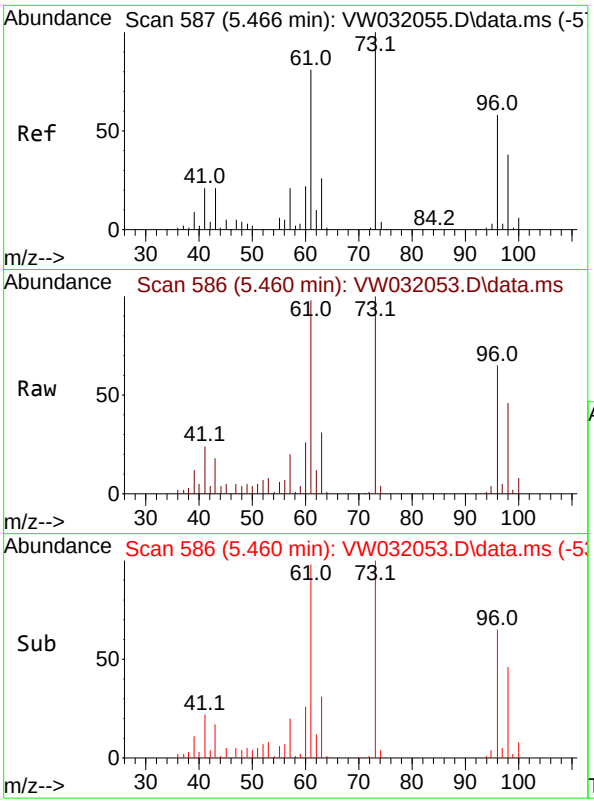


#18
Methyl Acetate
Concen: 11.394 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 27191

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.6	31.0



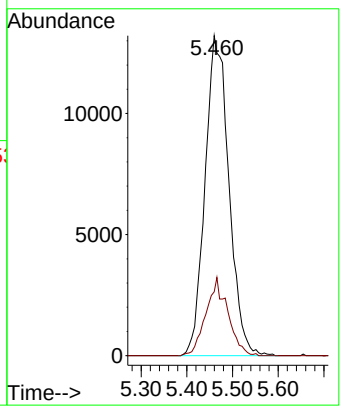


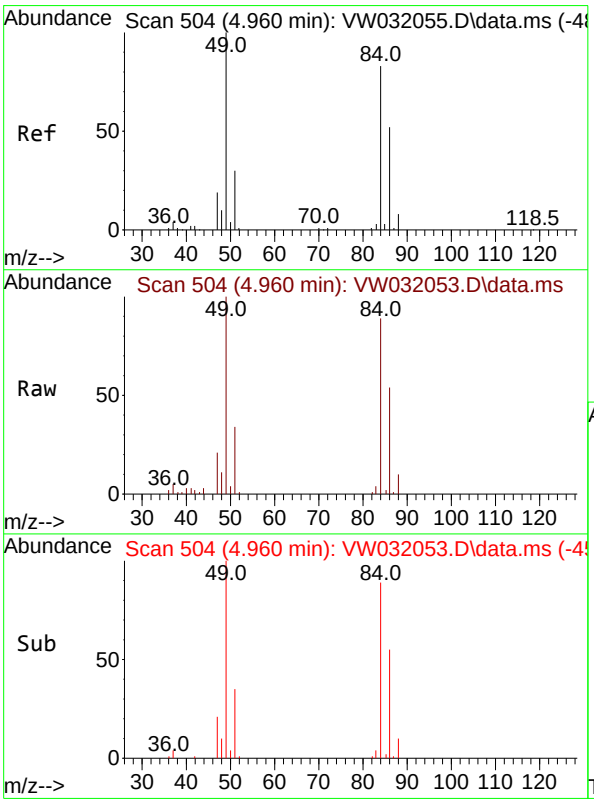
#19
Methyl tert-butyl Ether
Concen: 9.947 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 47872

Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.2	25.8

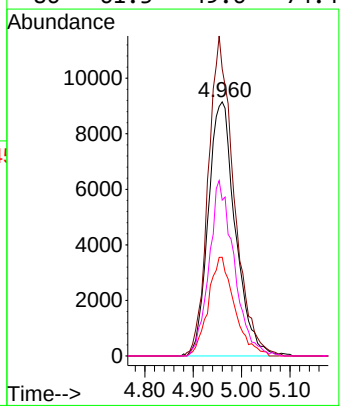


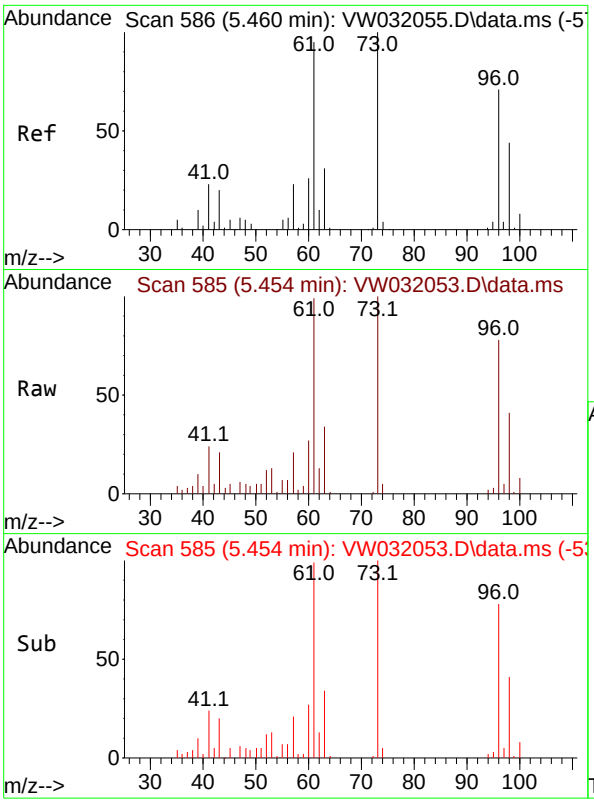


#20
Methylene Chloride
Concen: 10.170 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 84 Resp: 35462

Ion	Ratio	Lower	Upper
84	100		
49	113.0	95.9	143.9
51	38.9	28.6	43.0
86	61.3	49.6	74.4



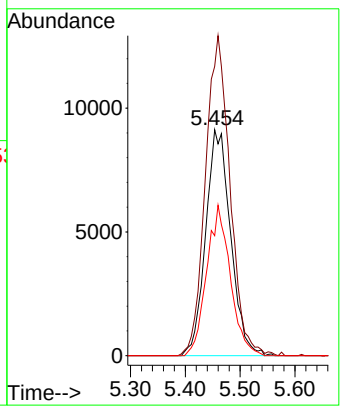


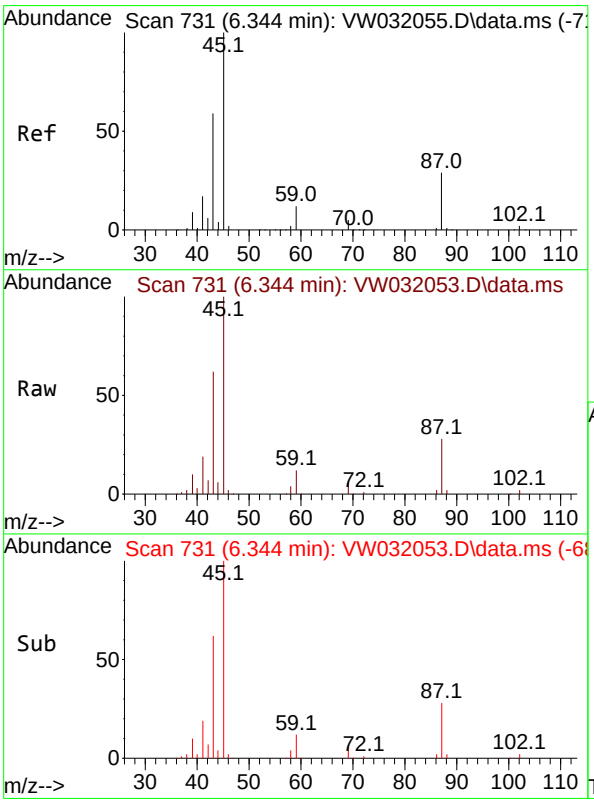
#21
trans-1,2-Dichloroethene
Concen: 9.962 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 28875

Ion	Ratio	Lower	Upper
96	100		
61	128.0	106.8	160.2
98	53.2	49.6	74.4

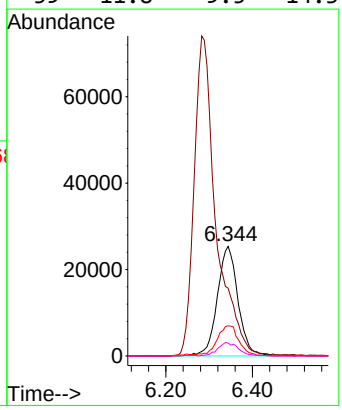


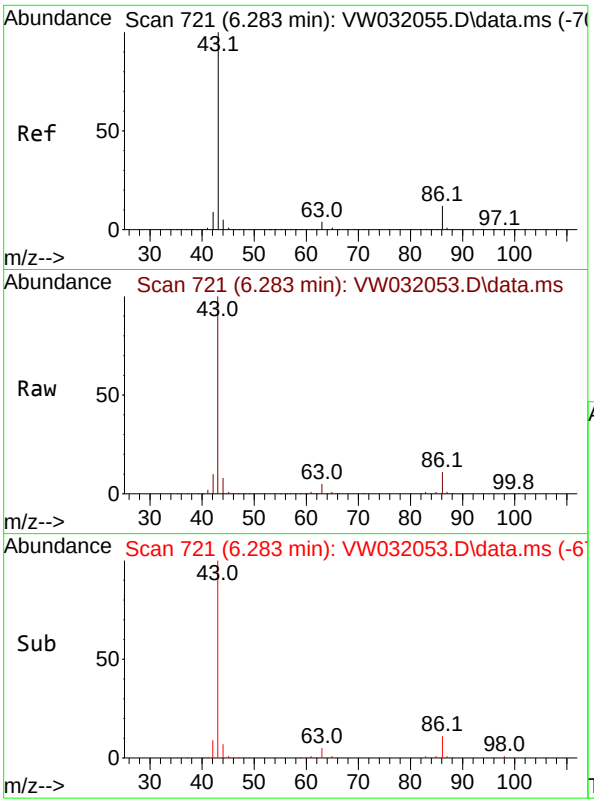


#22
Diisopropyl ether
Concen: 10.029 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 45 Resp: 84045

Ion	Ratio	Lower	Upper
45	100		
43	61.0	47.0	70.4
87	27.5	23.8	35.8
59	11.8	9.5	14.3



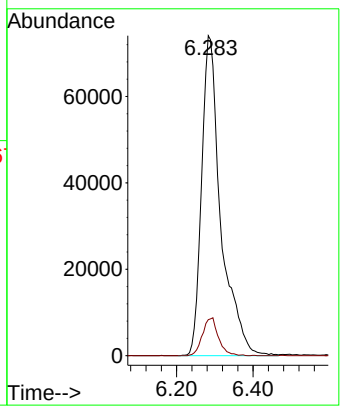


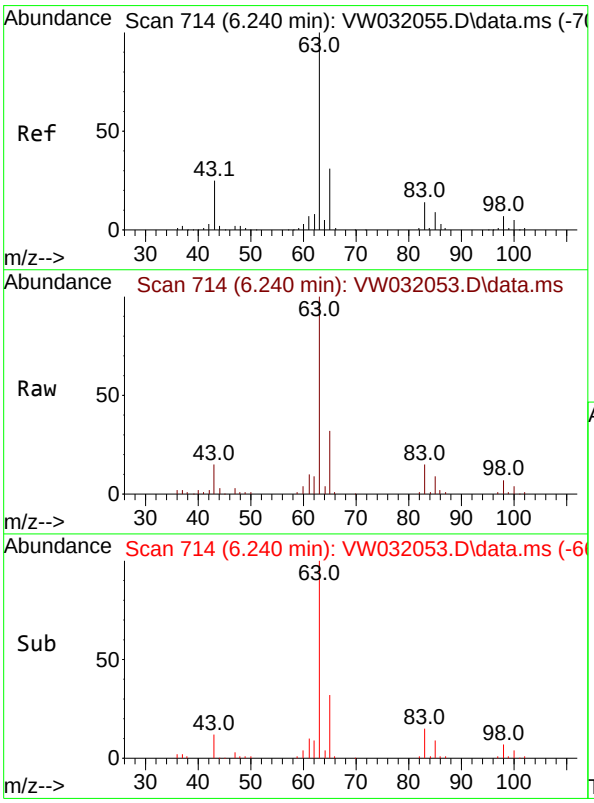
#23
Vinyl Acetate
Concen: 47.081 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 259050

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.4	14.0

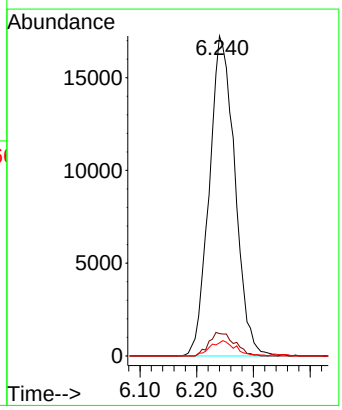


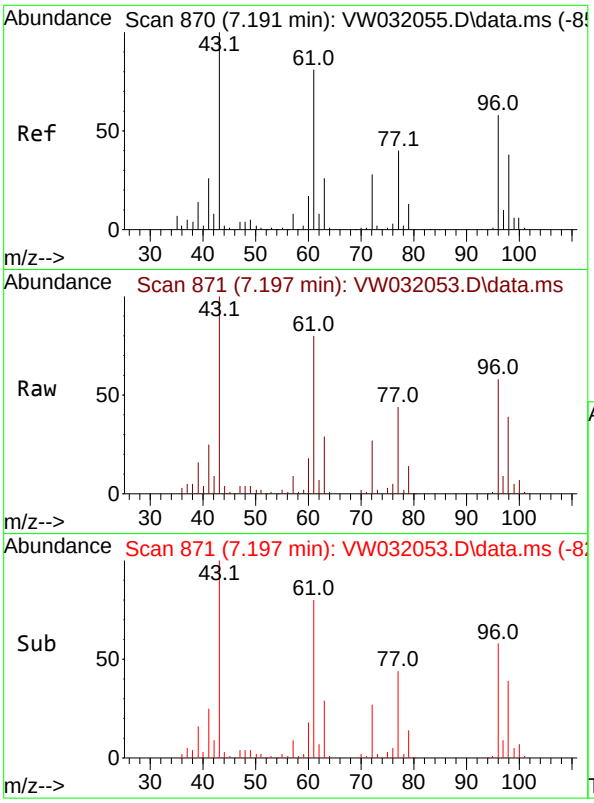


#24
1,1-Dichloroethane
Concen: 10.095 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 54051

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.7	11.1
100	4.1	2.5	7.4



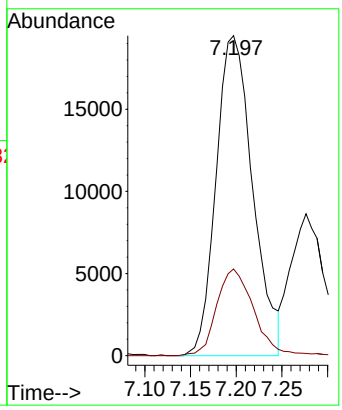


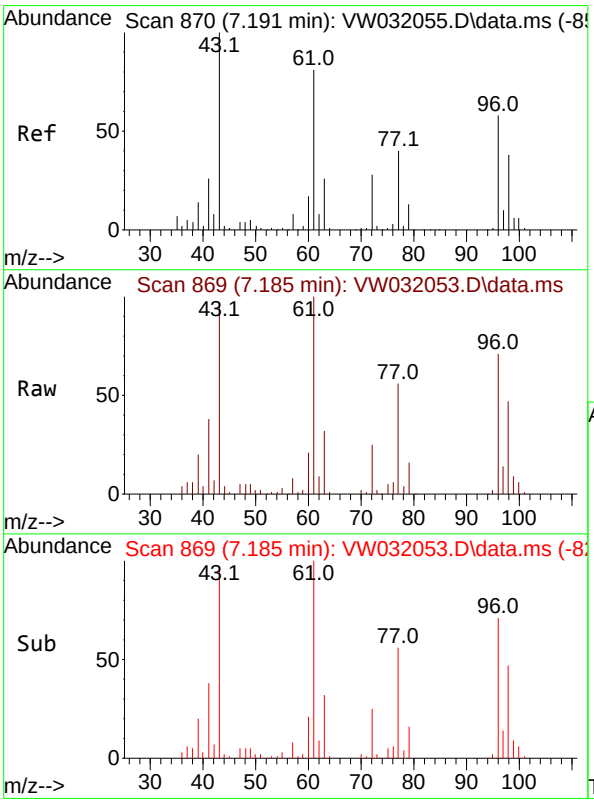
#25
2-Butanone
Concen: 50.685 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 54327

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5

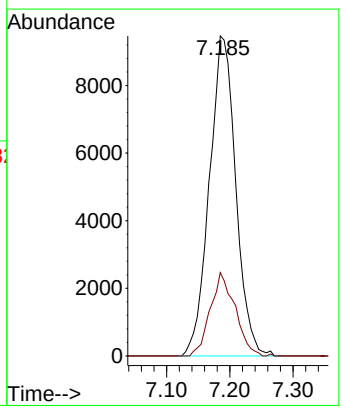


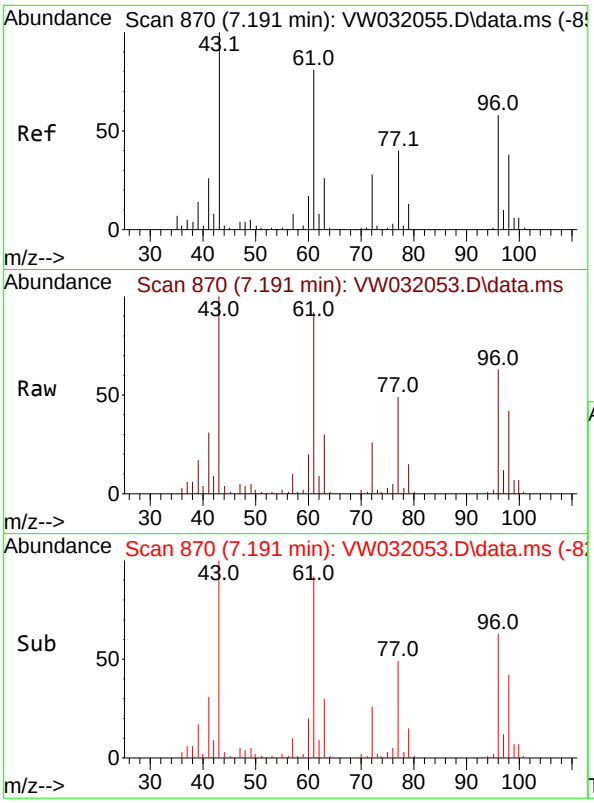


#26
2,2-Dichloropropane
Concen: 10.224 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 77 Resp: 27463

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9



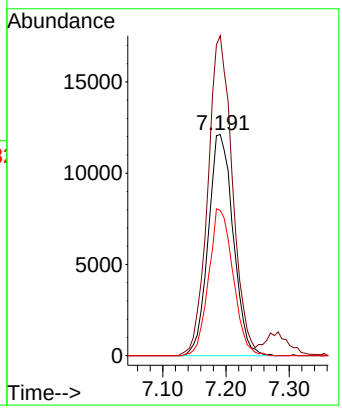


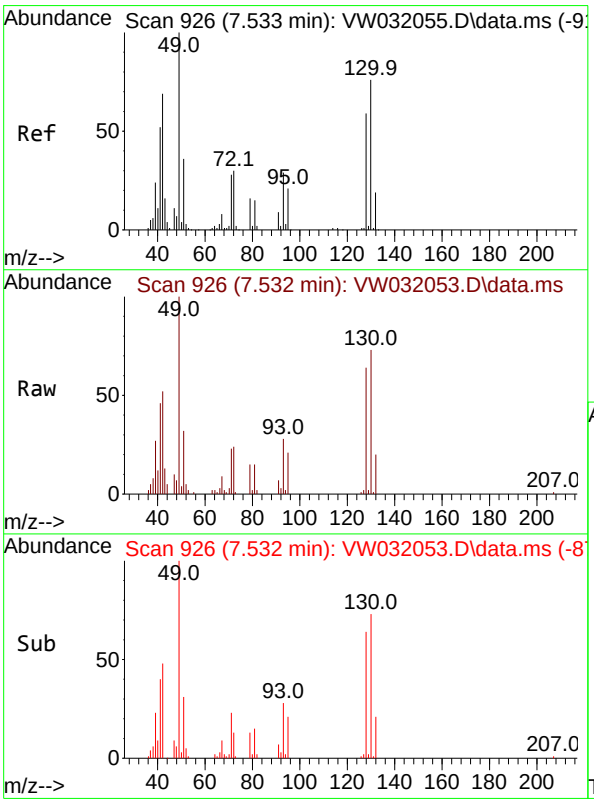
#27
cis-1,2-Dichloroethene
Concen: 9.791 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 33173

Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	281.2
98	64.9	0.0	130.8

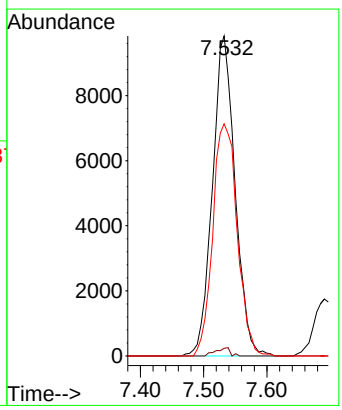


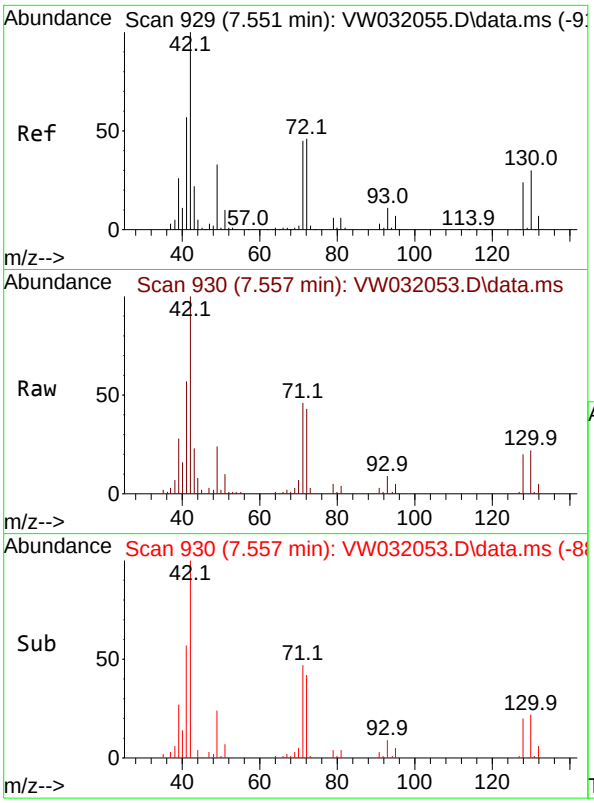


#28
Bromochloromethane
Concen: 10.019 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 49 Resp: 24412

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.2
130	78.2	61.9	92.9



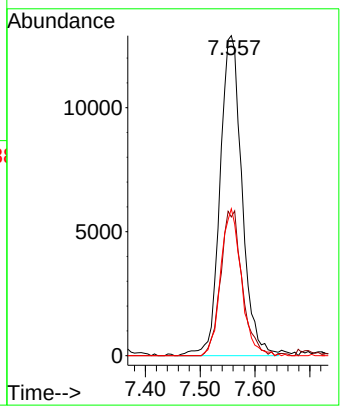


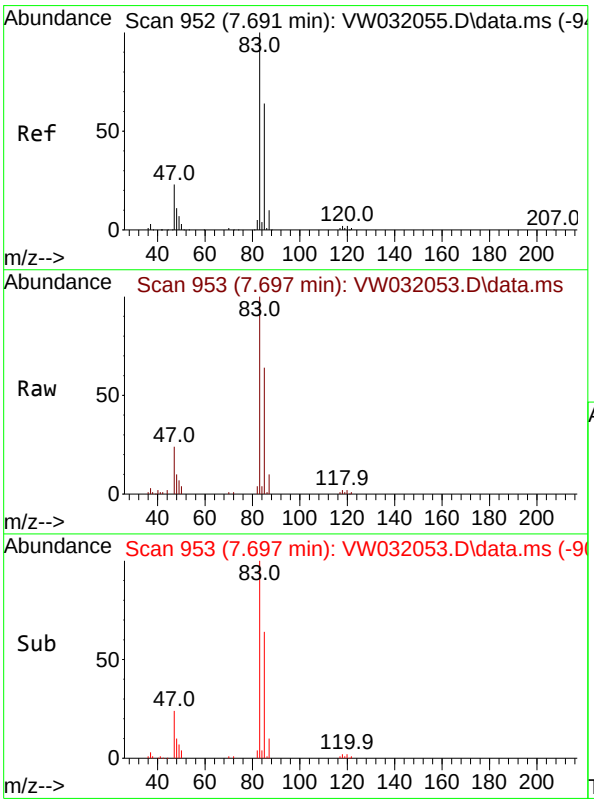
#29
Tetrahydrofuran
Concen: 50.800 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 35909

Ion	Ratio	Lower	Upper
42	100		
72	44.5	36.6	55.0
71	43.3	34.7	52.1

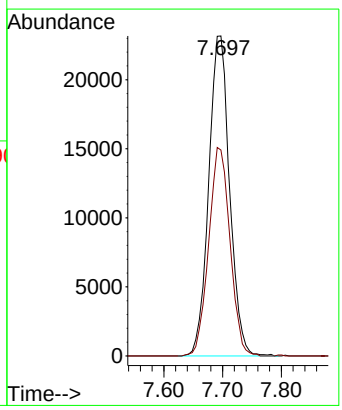


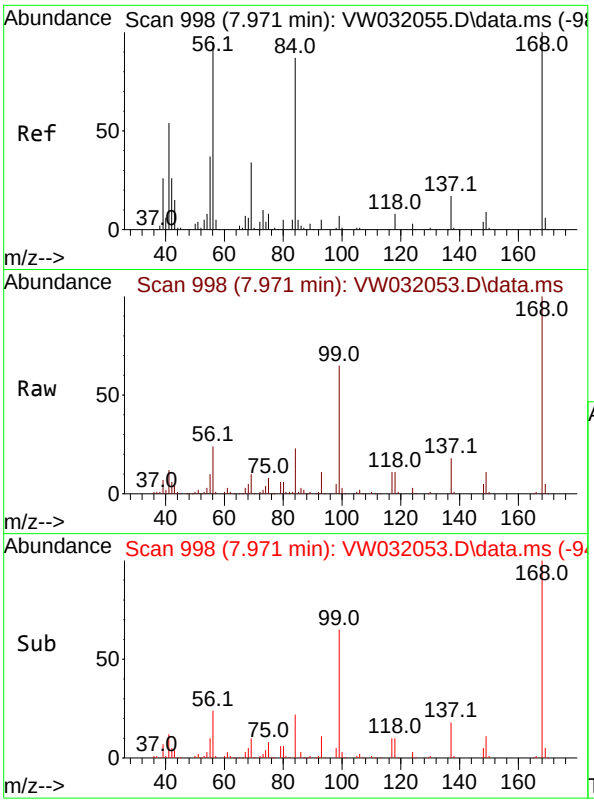


#30
Chloroform
Concen: 10.071 ug/l
RT: 7.697 min Scan# 953
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 57170

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4



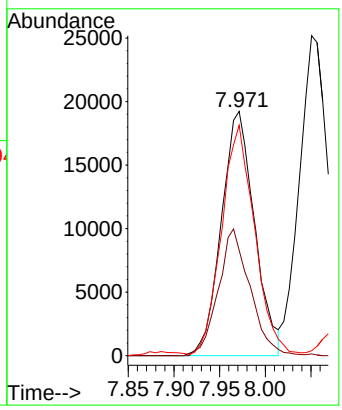


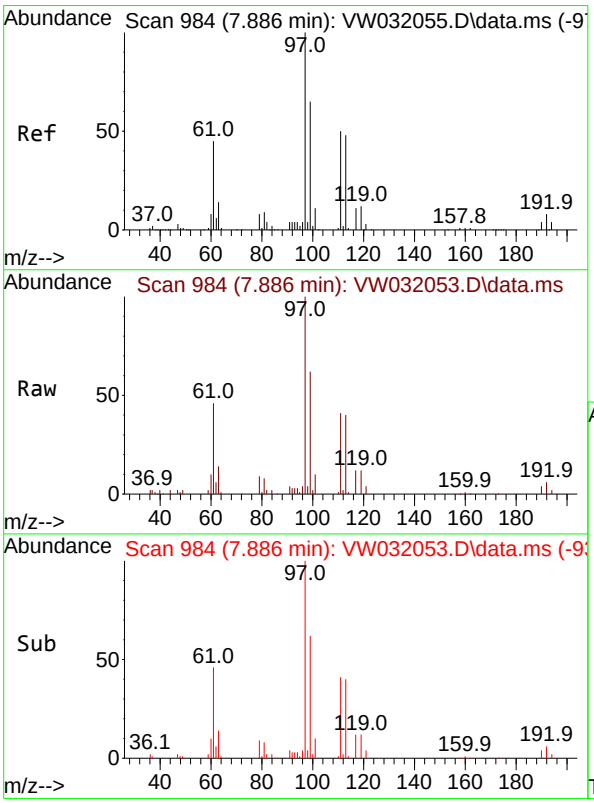
#31
Cyclohexane
Concen: 10.477 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 48633

Ion	Ratio	Lower	Upper
56	100		
69	43.1	28.6	42.8#
84	93.2	73.0	109.4

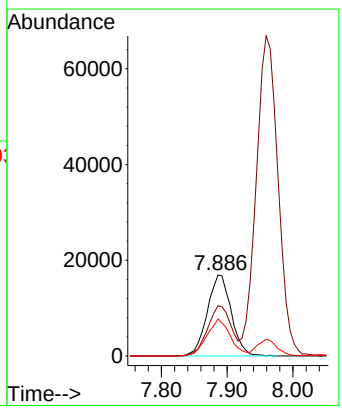


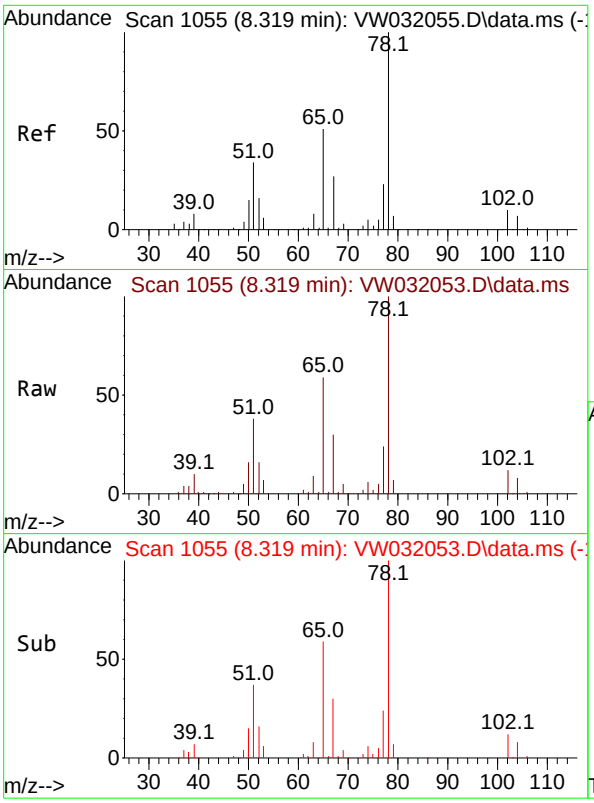


#32
1,1,1-Trichloroethane
Concen: 10.368 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 97 Resp: 42747

Ion	Ratio	Lower	Upper
97	100		
99	61.1	51.8	77.8
61	45.0	35.9	53.9



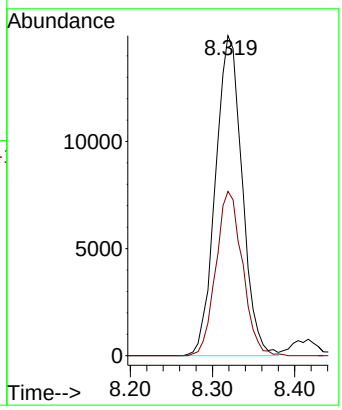


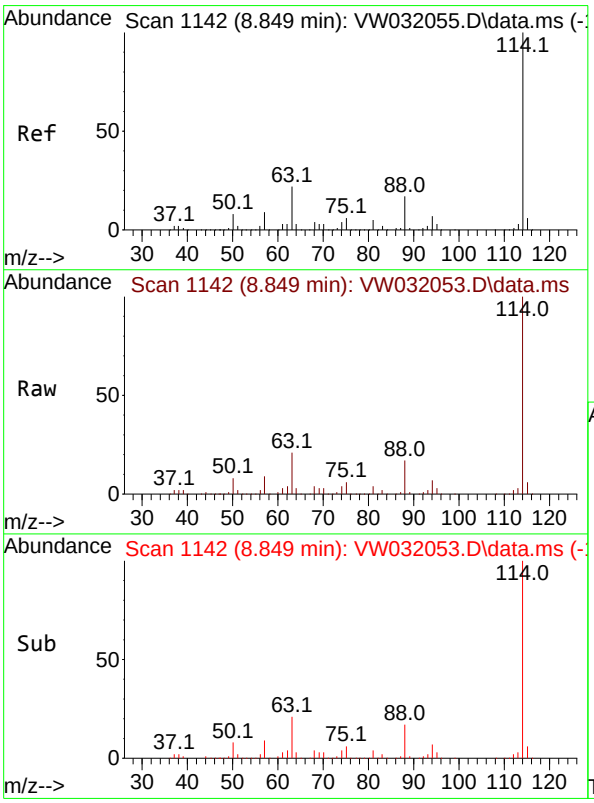
#33
1,2-Dichloroethane-d4
Concen: 10.337 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 33671

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

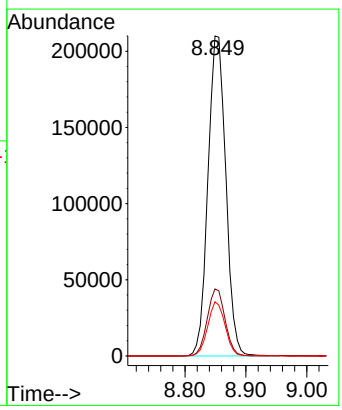


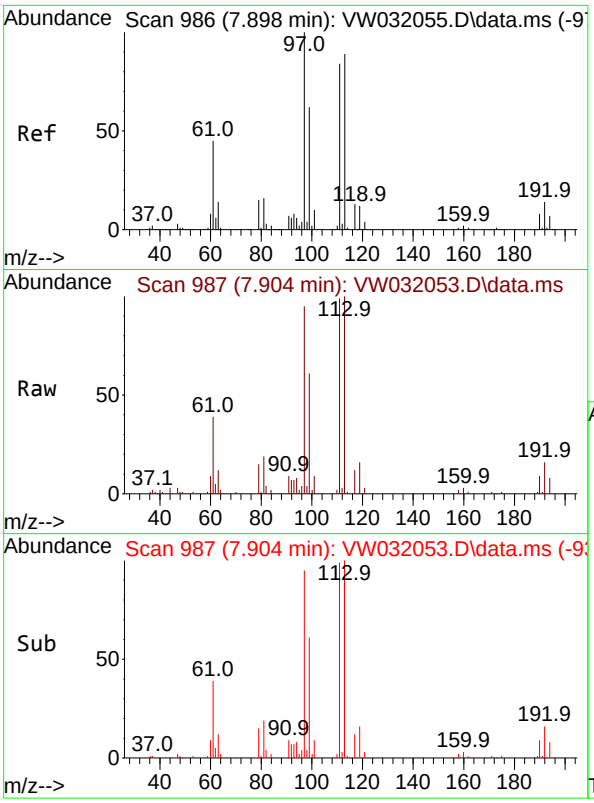


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:114 Resp: 426784

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.0
88	17.0	0.0	33.8



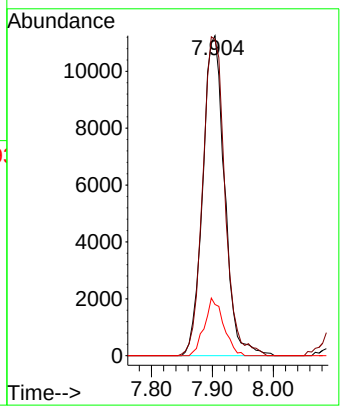


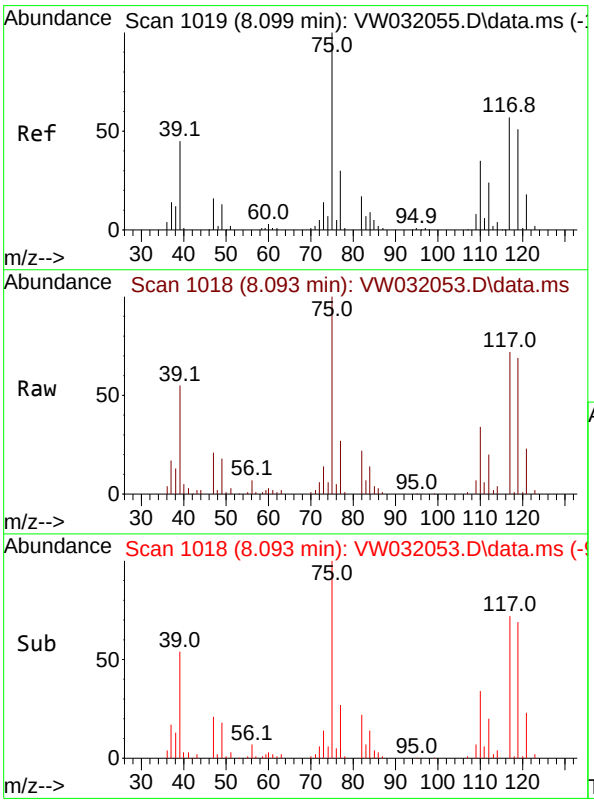
#35
Dibromofluoromethane
Concen: 10.147 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 27978

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.1	120.1
192	15.8	13.1	19.7

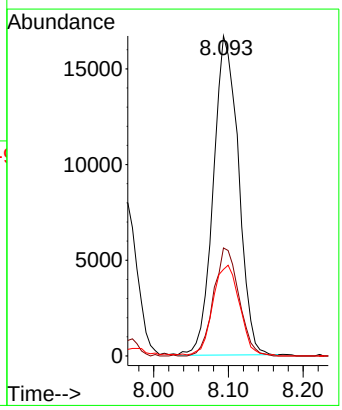


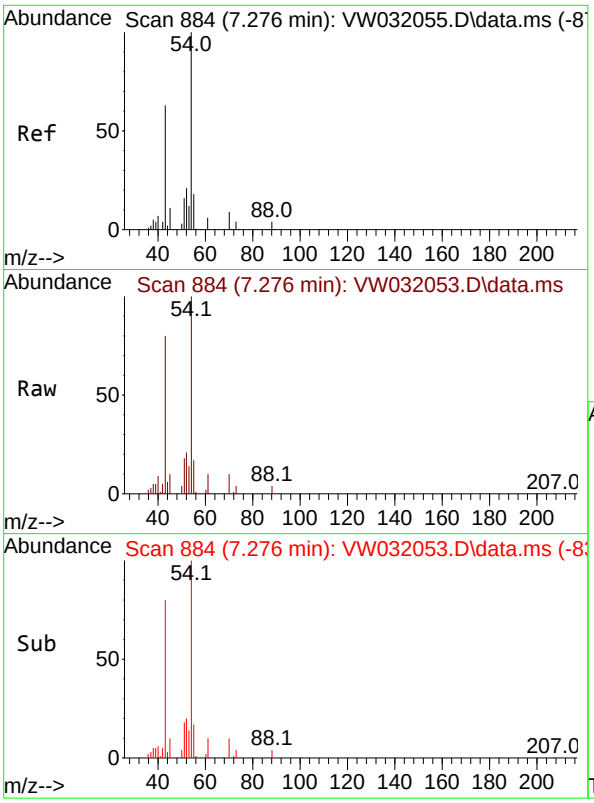


#36
1,1-Dichloropropene
Concen: 10.032 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 38994

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.4	52.2
77	30.6	24.7	37.1



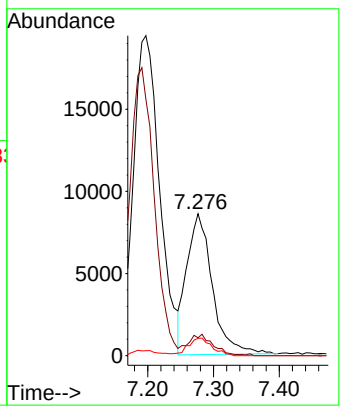


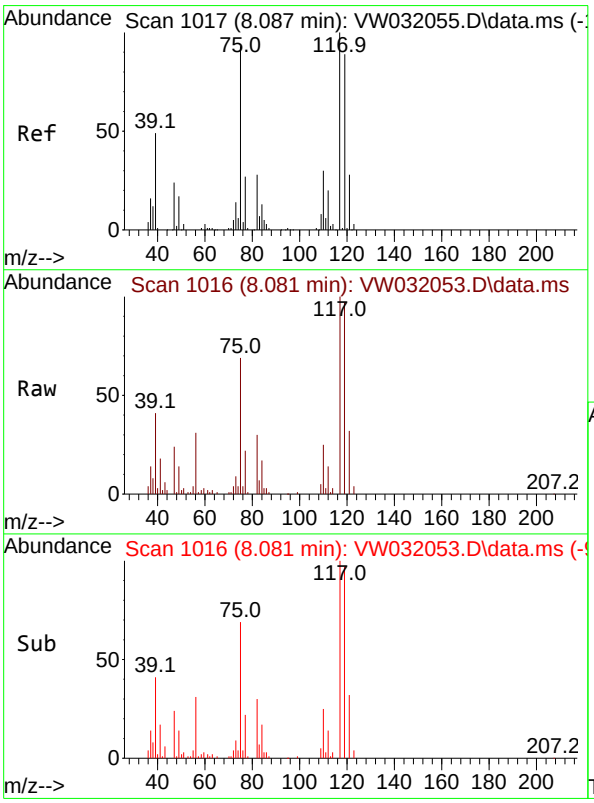
#37
Ethyl Acetate
Concen: 10.070 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 23053

Ion	Ratio	Lower	Upper
43	100		
61	11.8	11.8	17.6
70	11.8	9.4	14.0

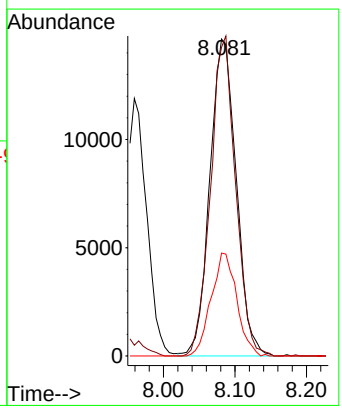


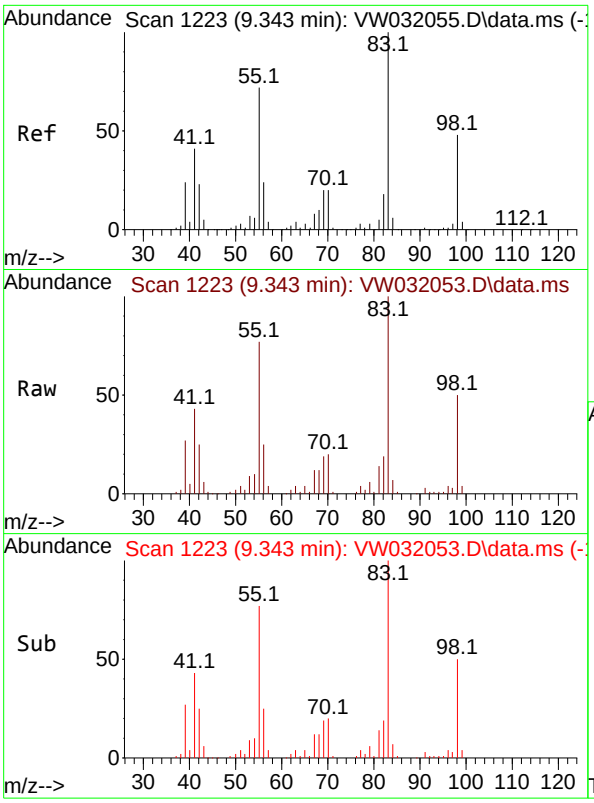


#38
Carbon Tetrachloride
Concen: 10.007 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 37535

Ion	Ratio	Lower	Upper
117	100		
119	97.5	71.4	107.2
121	32.5	22.3	33.5



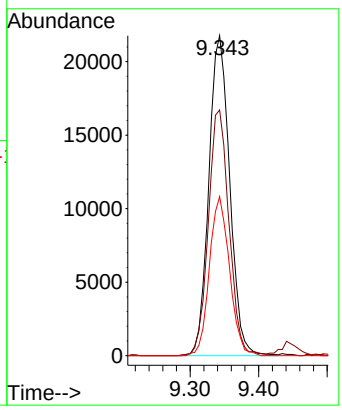


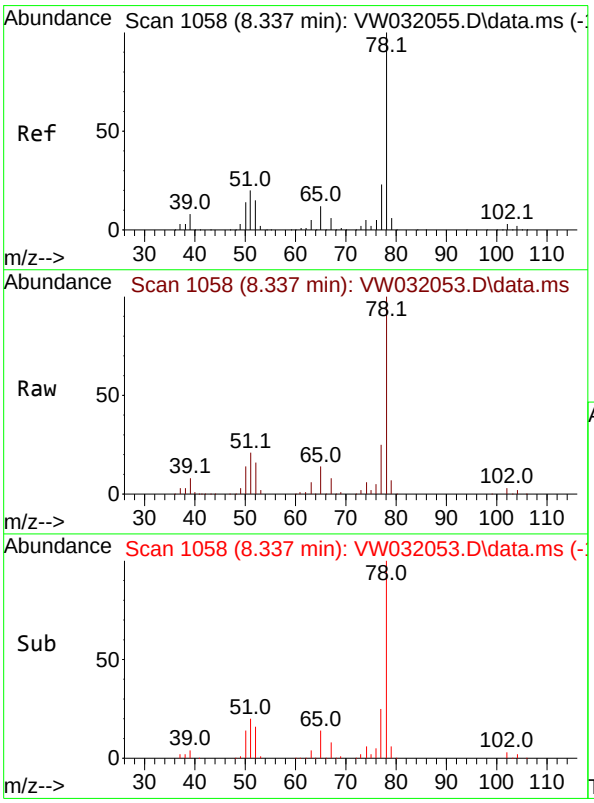
#39
Methylcyclohexane
Concen: 9.731 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 46100

Ion	Ratio	Lower	Upper
83	100		
55	76.8	57.9	86.9
98	49.7	38.3	57.5

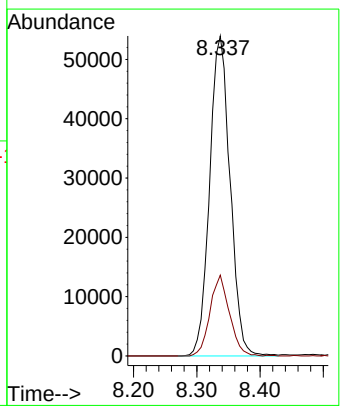


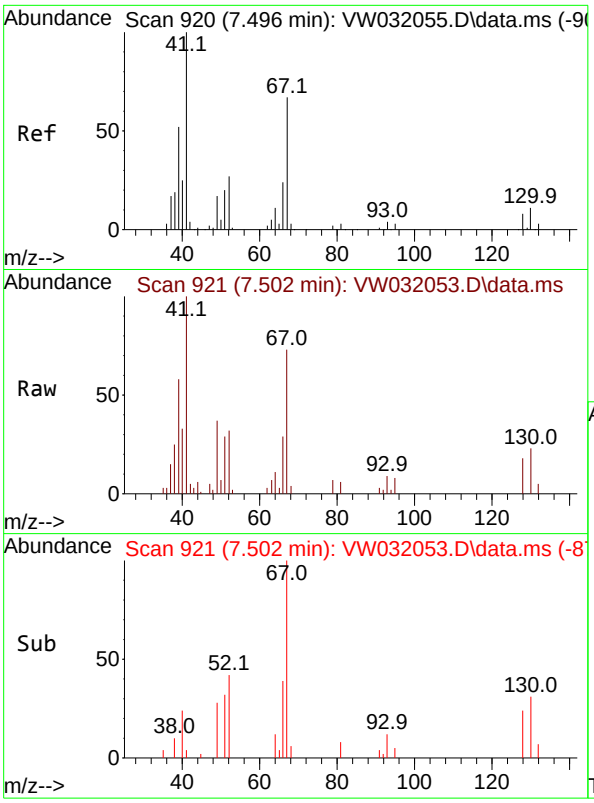


#40
Benzene
Concen: 10.053 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 78 Resp: 121462

Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.4	27.6



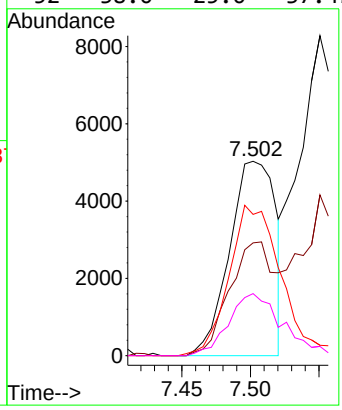


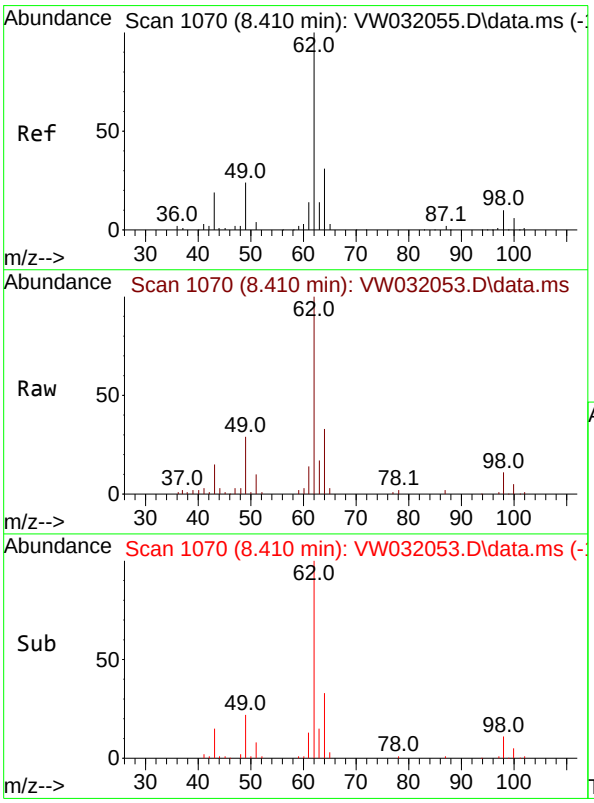
#41
Methacrylonitrile
Concen: 9.035 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 11729

Ion	Ratio	Lower	Upper
41	100		
39	57.4	42.6	63.8
67	87.3	61.0	91.4
52	38.0	25.0	37.4#

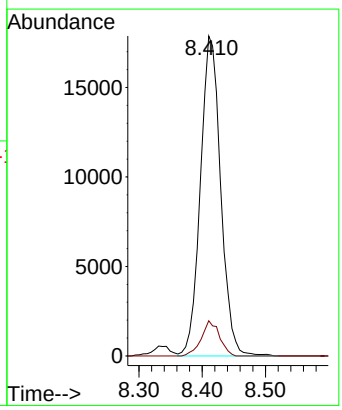


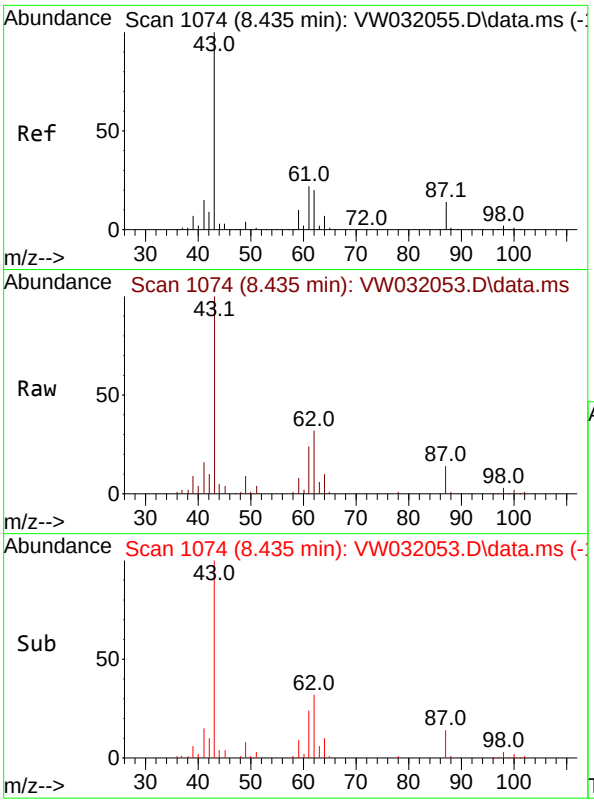


#42
1,2-Dichloroethane
Concen: 10.316 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 39882

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8



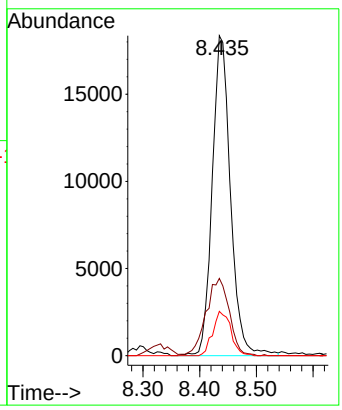


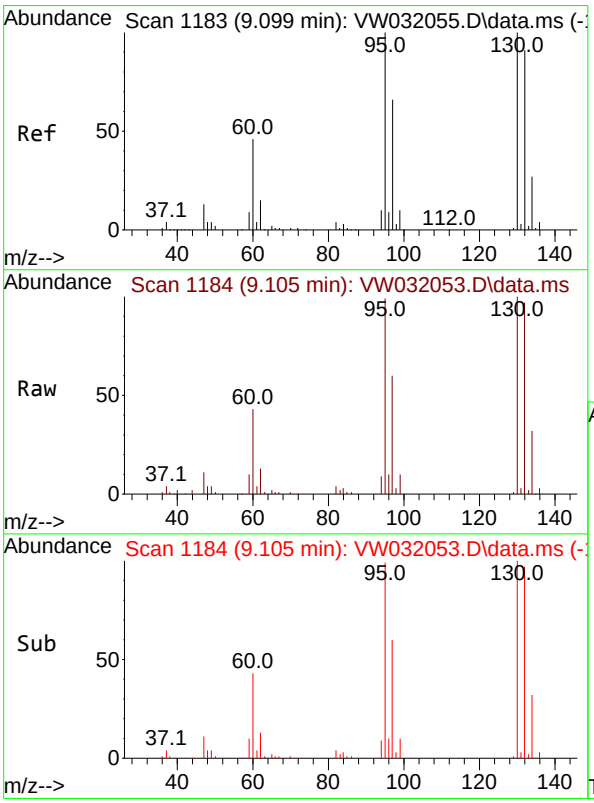
#43
Isopropyl Acetate
Concen: 9.743 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 41036

Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.8	35.8
87	13.7	11.7	17.5

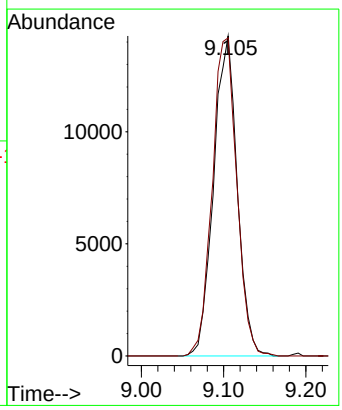


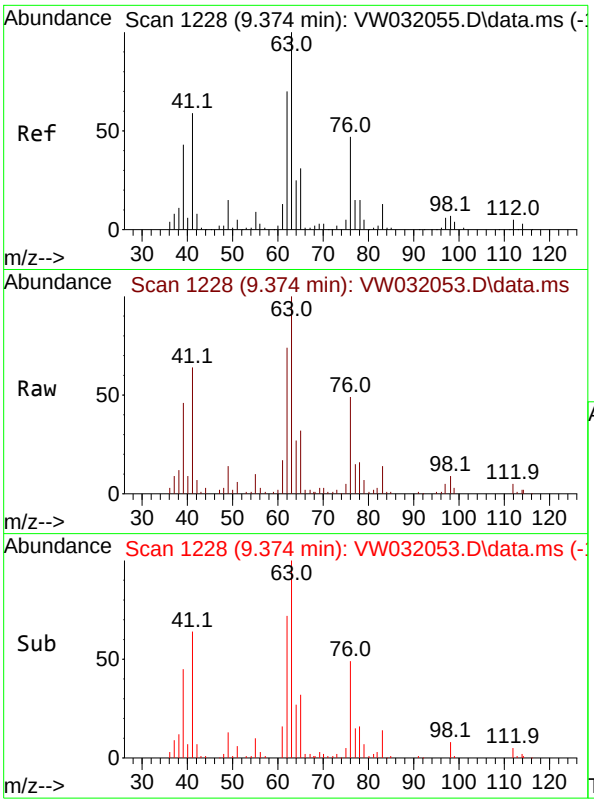


#44
Trichloroethene
Concen: 9.905 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:130 Resp: 28498

Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	200.6



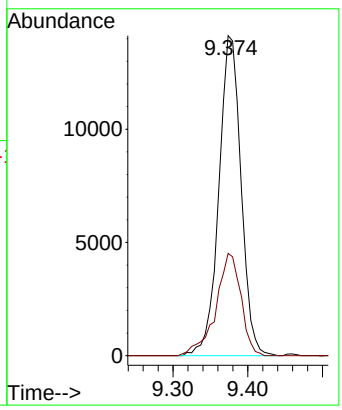


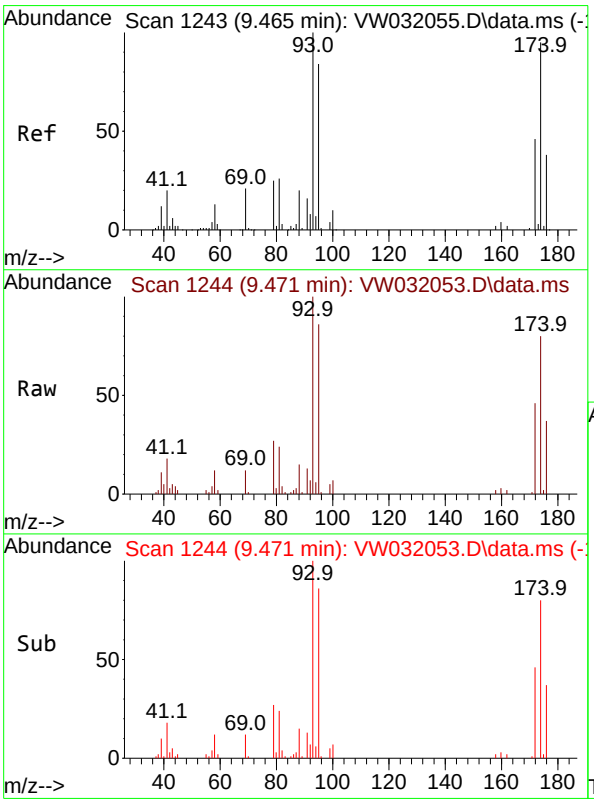
#45
1,2-Dichloropropane
Concen: 10.004 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 29199

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8

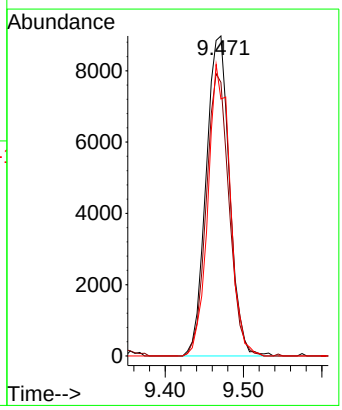


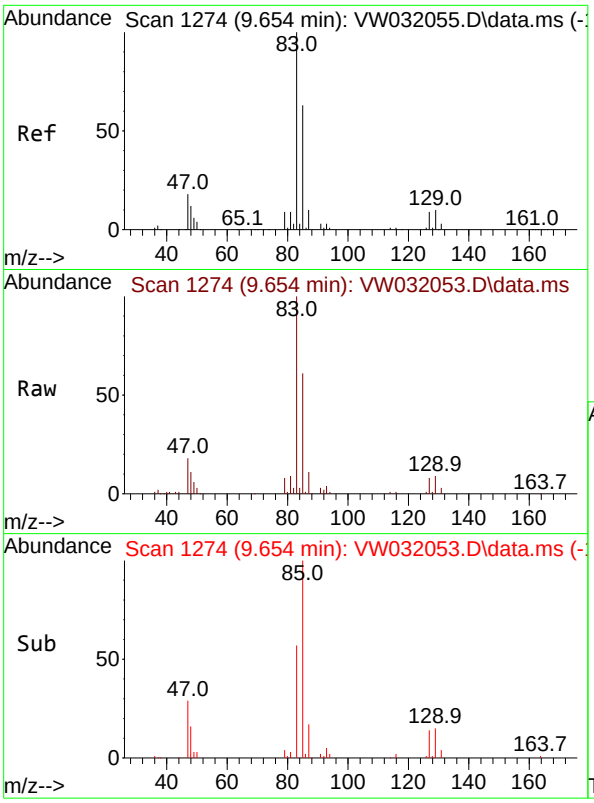


#46
Dibromomethane
Concen: 9.901 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 93 Resp: 18653

Ion	Ratio	Lower	Upper
93	100		
95	85.8	65.3	97.9
174	85.7	68.6	102.8



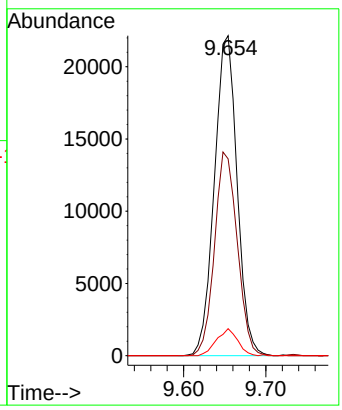


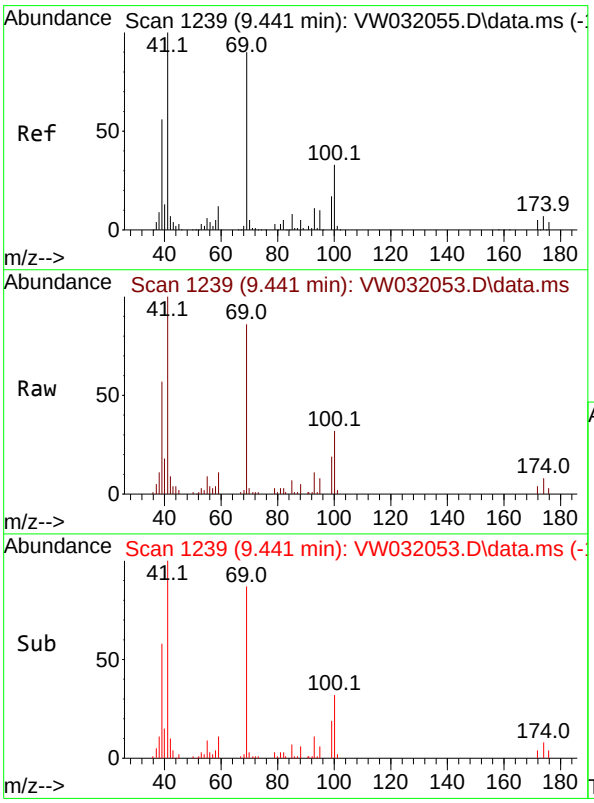
#47
Bromodichloromethane
Concen: 9.818 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 42618

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.6	75.8
127	8.5	6.9	10.3

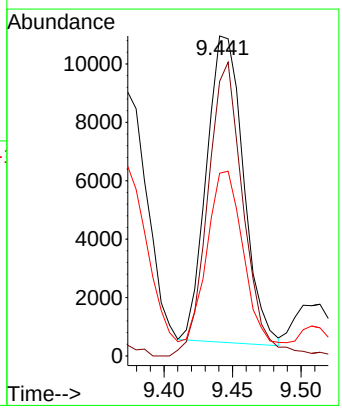


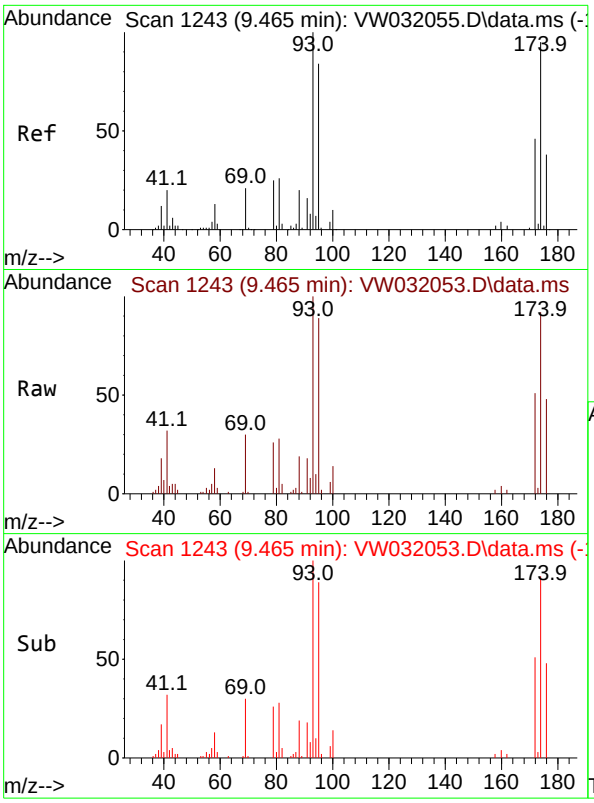


#48
Methyl methacrylate
Concen: 9.666 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 19654

Ion	Ratio	Lower	Upper
41	100		
69	92.9	73.0	109.6
39	55.1	45.0	67.4



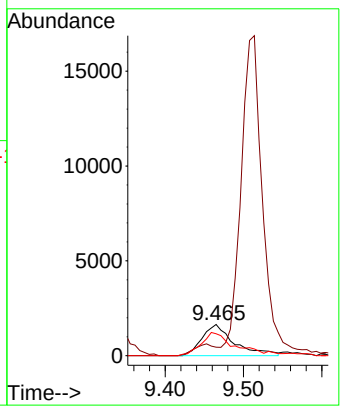


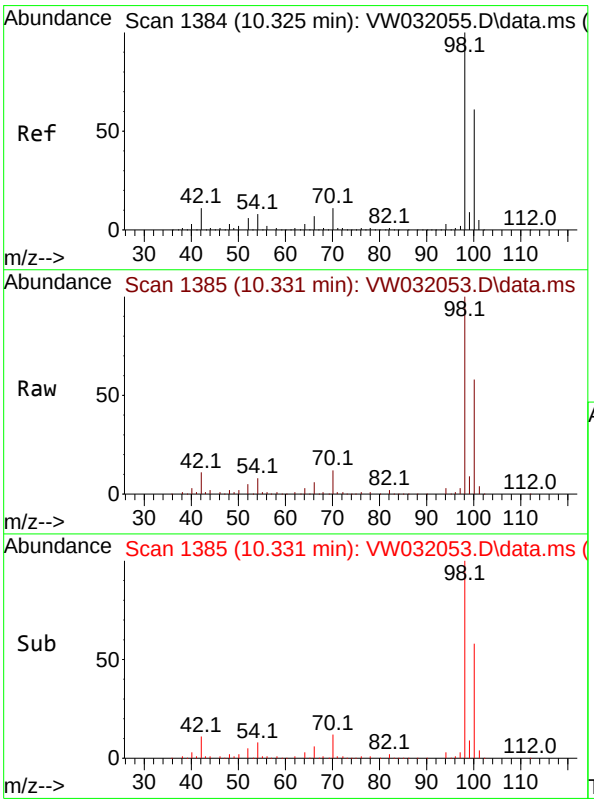
#49
1,4-Dioxane
Concen: 192.302 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 4684

Ion	Ratio	Lower	Upper
88	100		
43	27.6	20.6	30.8
58	75.1	60.4	90.6

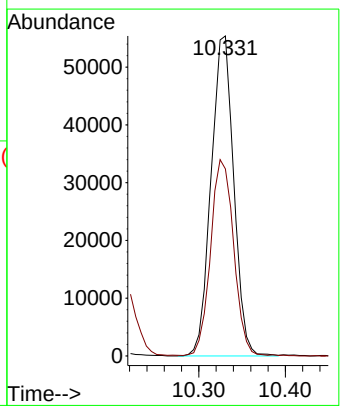


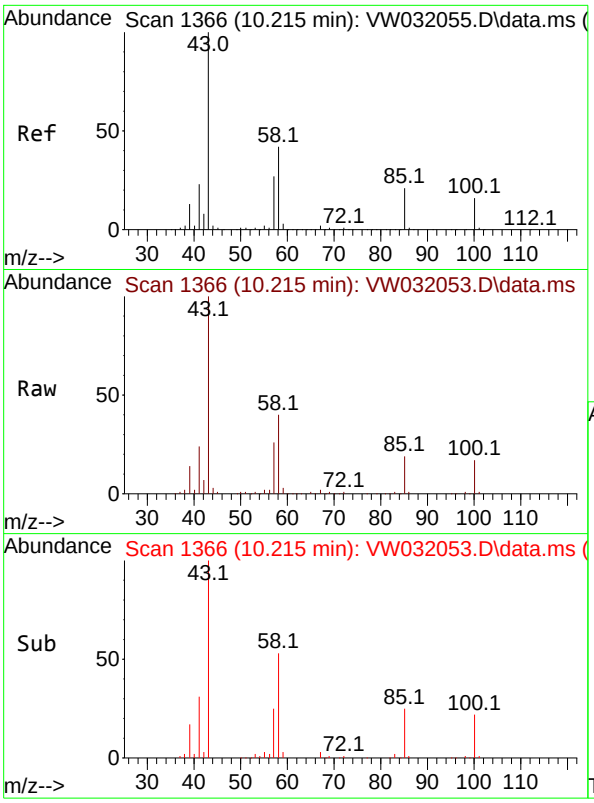


#50
Toluene-d8
Concen: 9.875 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 98 Resp: 100702

Ion	Ratio	Lower	Upper
98	100		
100	62.7	51.1	76.7



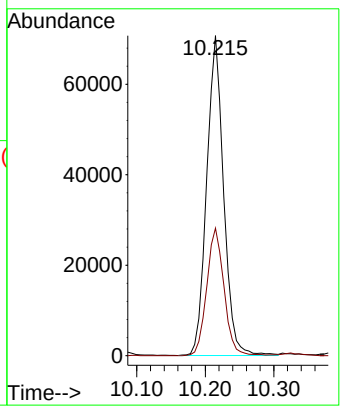


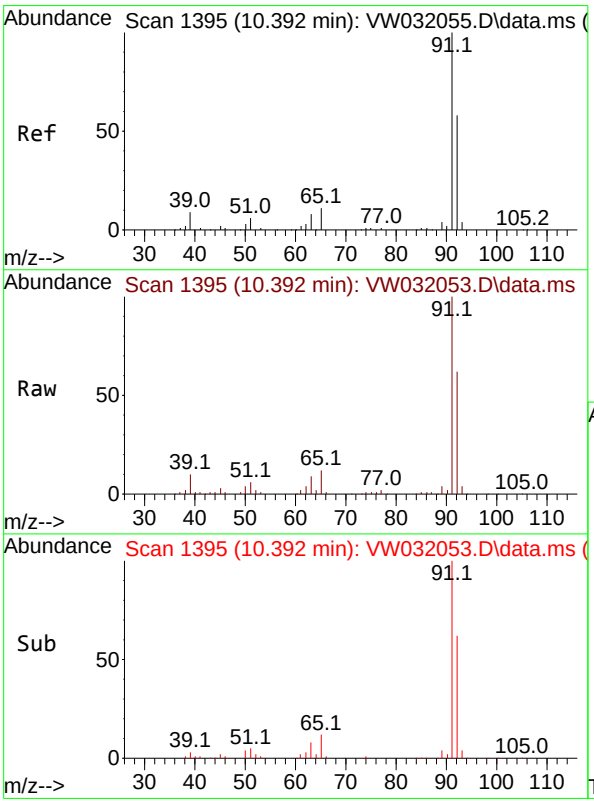
#51
4-Methyl-2-Pentanone
Concen: 51.075 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 121419

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.1	49.7

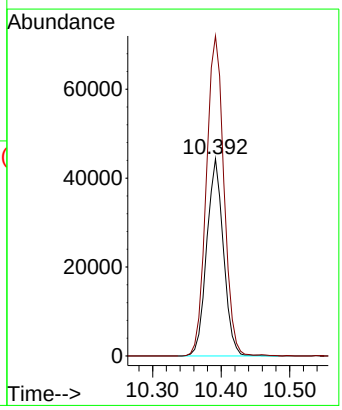


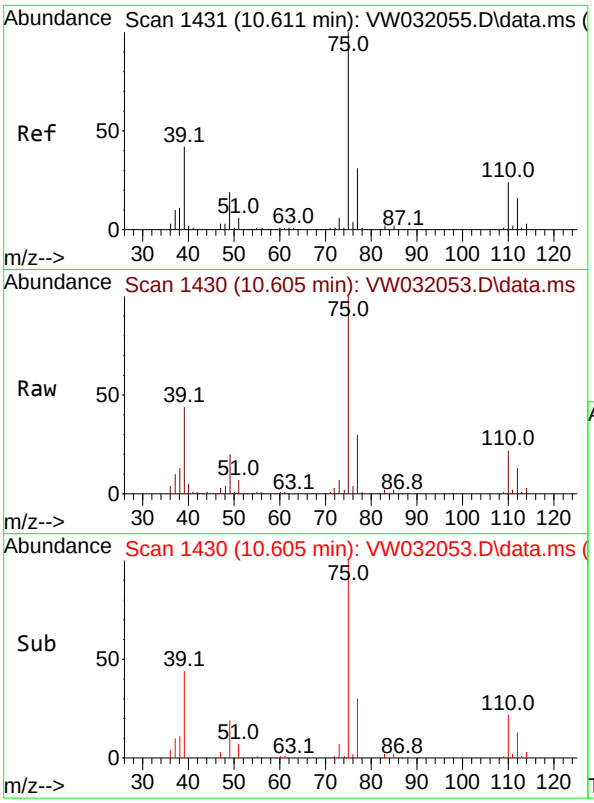


#52
Toluene
Concen: 9.888 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 92 Resp: 75250

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5



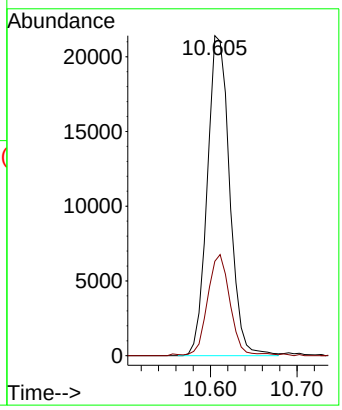


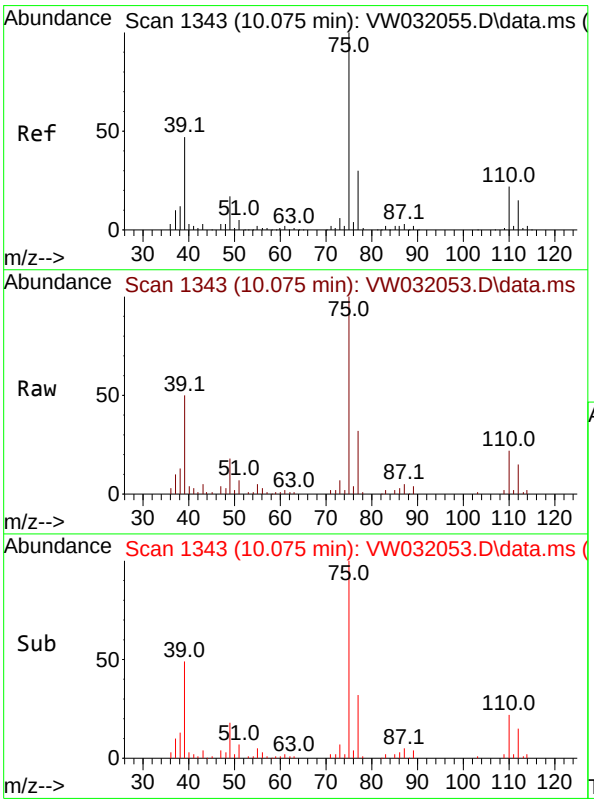
#53
t-1,3-Dichloropropene
Concen: 9.441 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 38397

Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.0	37.6

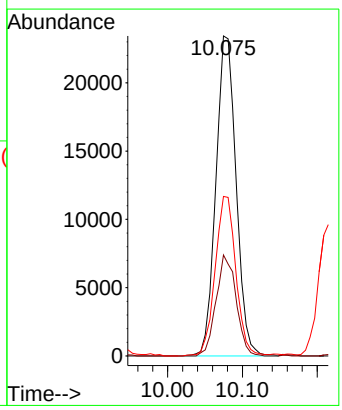


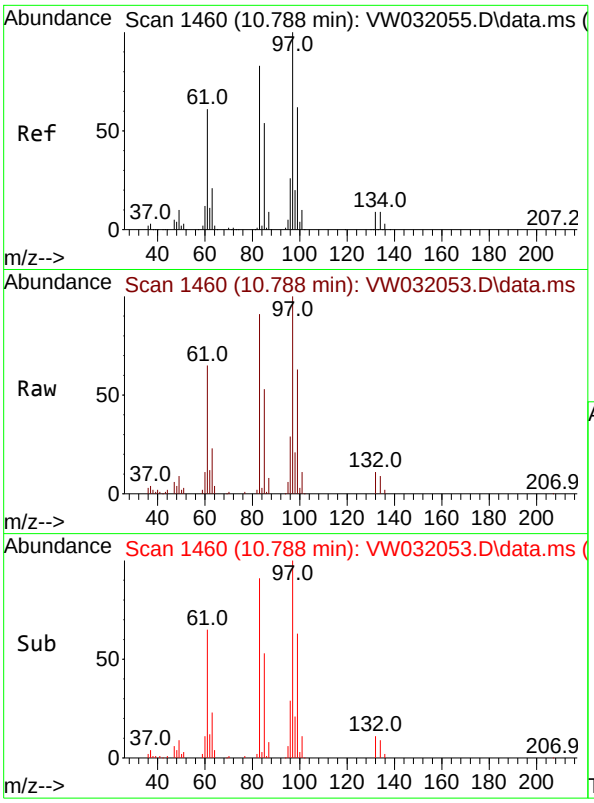


#54
cis-1,3-Dichloropropene
Concen: 9.543 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 44031

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.0	36.0
39	49.9	37.8	56.8



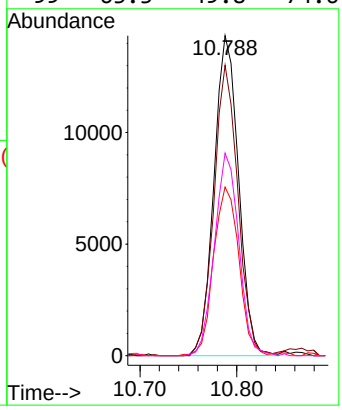


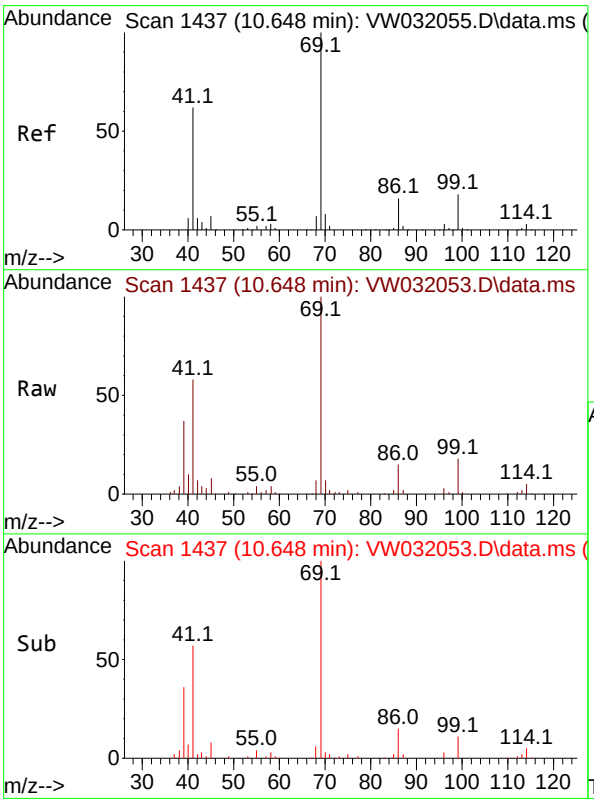
#55
1,1,2-Trichloroethane
Concen: 10.097 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 25277

Ion	Ratio	Lower	Upper
97	100		
83	90.7	66.4	99.6
85	52.7	43.1	64.7
99	63.3	49.8	74.6

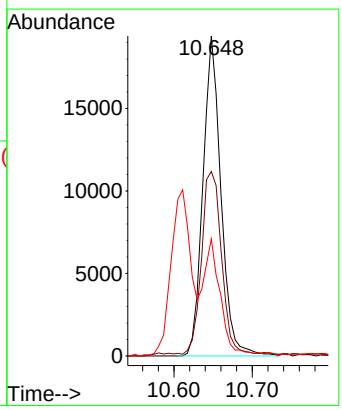


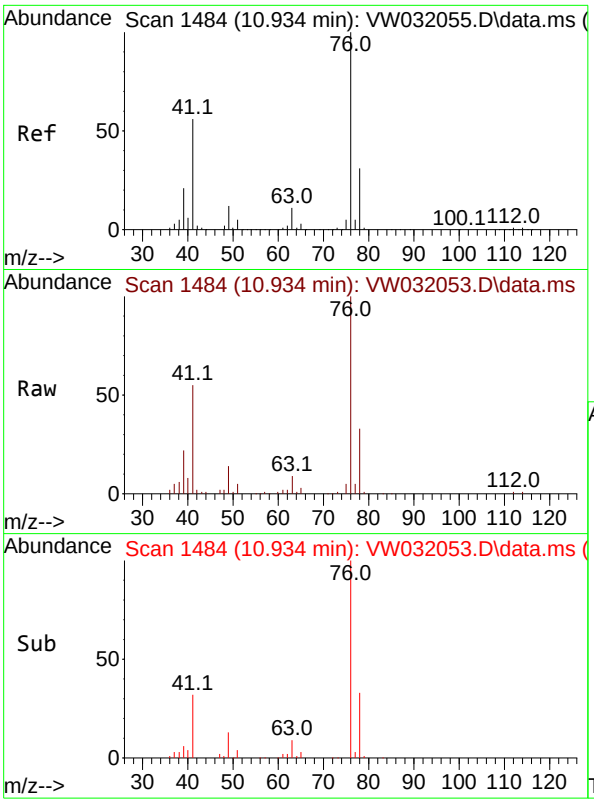


#56
Ethyl methacrylate
Concen: 9.260 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 69 Resp: 31022

Ion	Ratio	Lower	Upper
69	100		
41	62.3	51.2	76.8
39	35.0	25.4	38.0



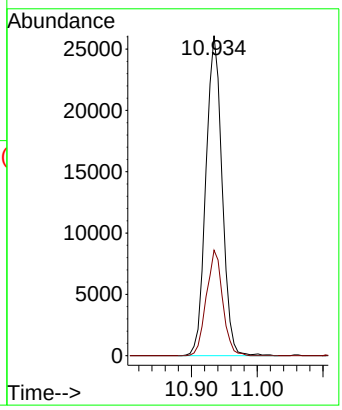


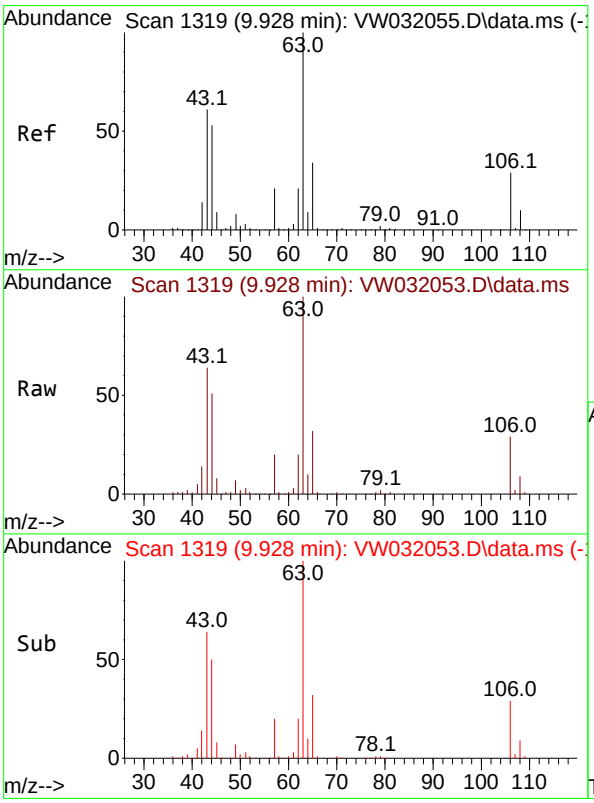
#57
1,3-Dichloropropane
Concen: 10.254 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 44743

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.6

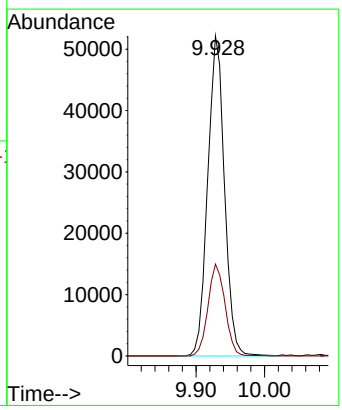


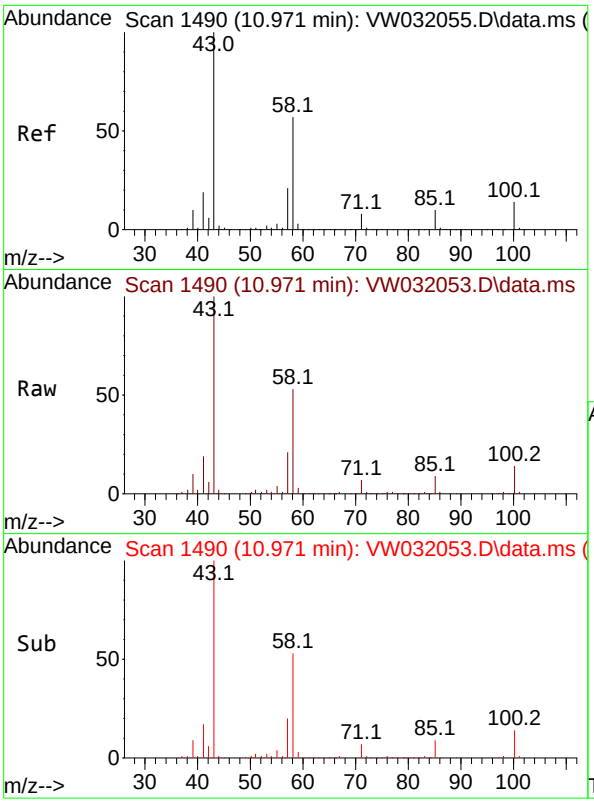


#58
2-Chloroethyl Vinyl ether
Concen: 47.830 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 88627

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.5	35.3



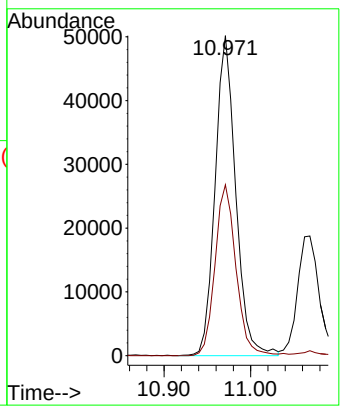


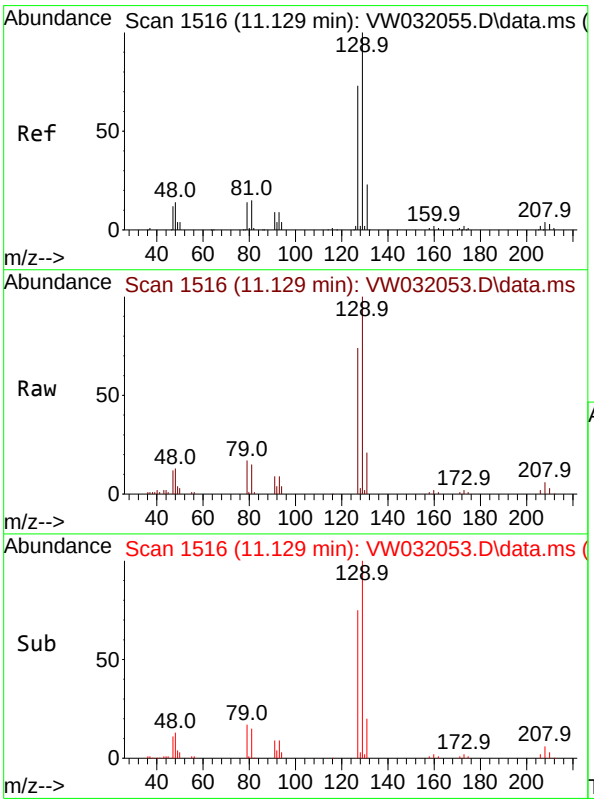
#59
2-Hexanone
Concen: 50.310 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 82830

Ion	Ratio	Lower	Upper
43	100		
58	54.2	28.3	85.0

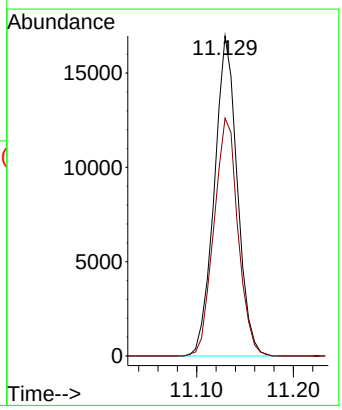


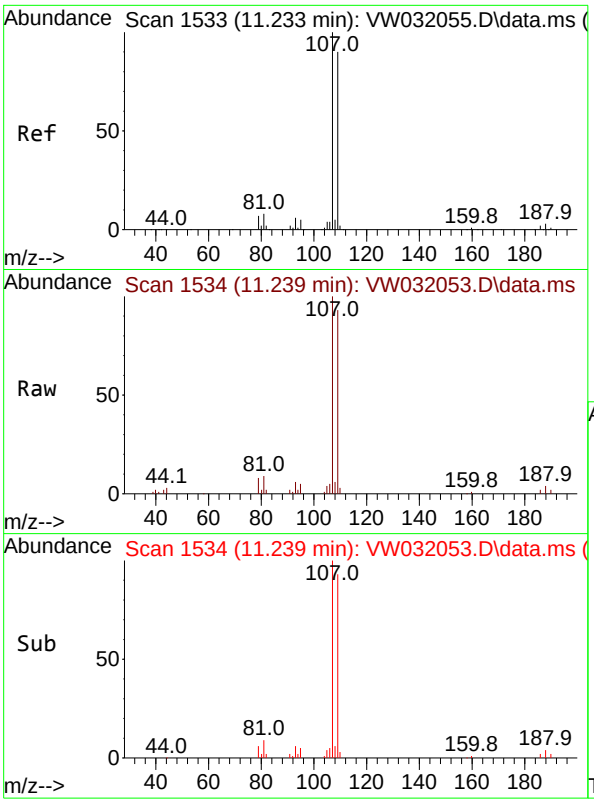


#60
Dibromochloromethane
Concen: 9.776 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:129 Resp: 27954

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	116.9



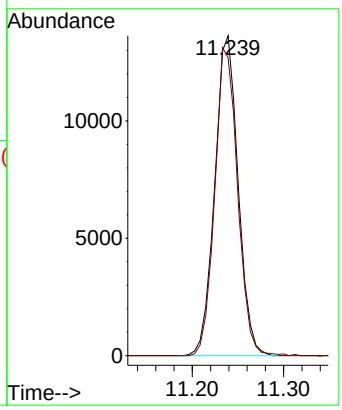


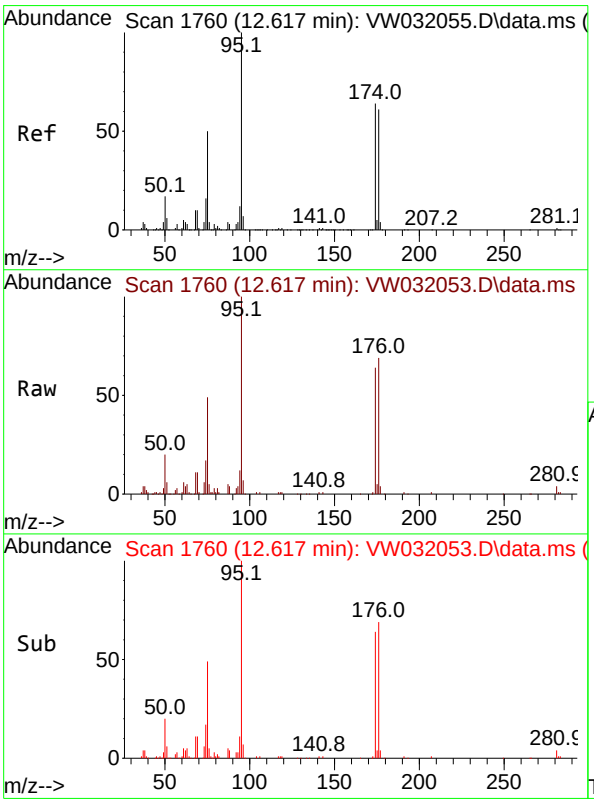
#61
1,2-Dibromoethane
Concen: 9.926 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 24146

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.2	111.4

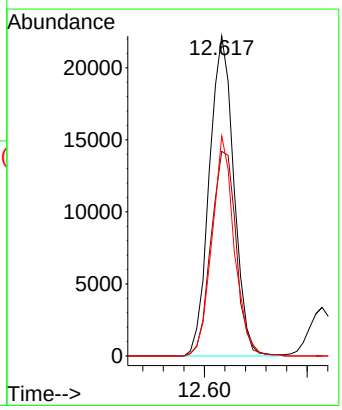


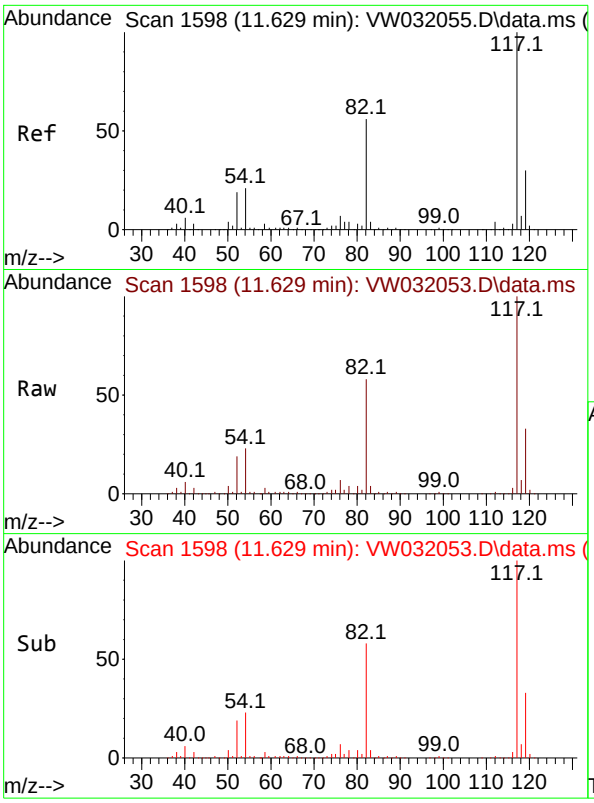


#62
4-Bromofluorobenzene
Concen: 9.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 95 Resp: 36748

Ion	Ratio	Lower	Upper
95	100		
174	65.3	0.0	129.0
176	62.4	0.0	124.6



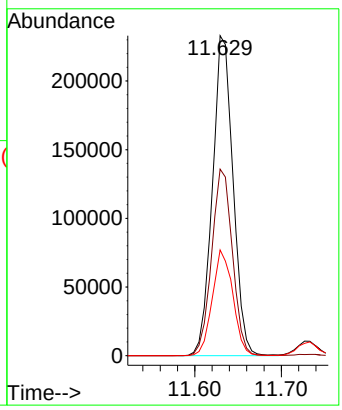


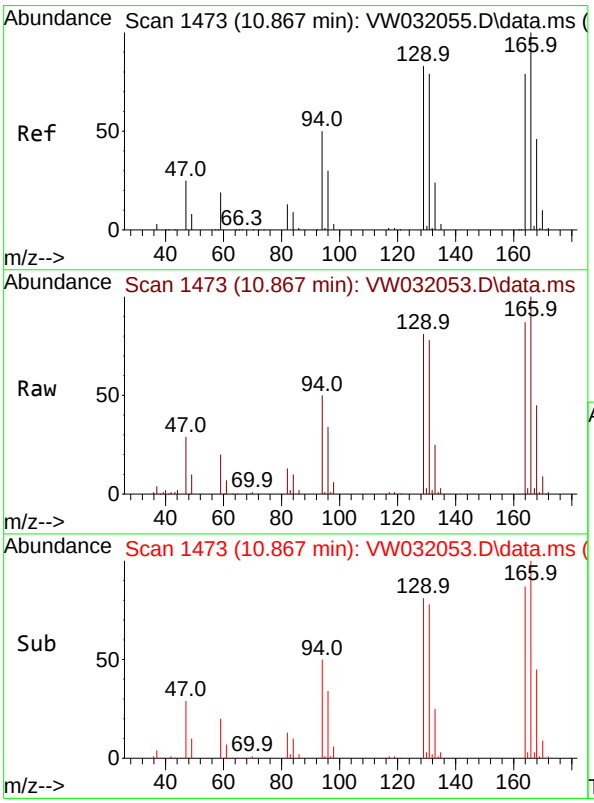
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 385631

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.0	67.4
119	33.0	24.2	36.4

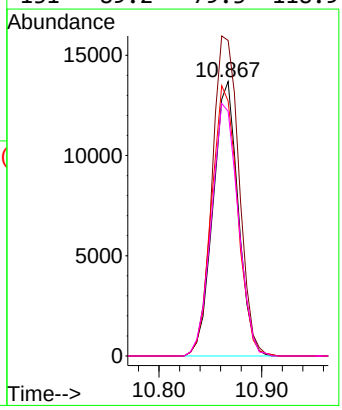


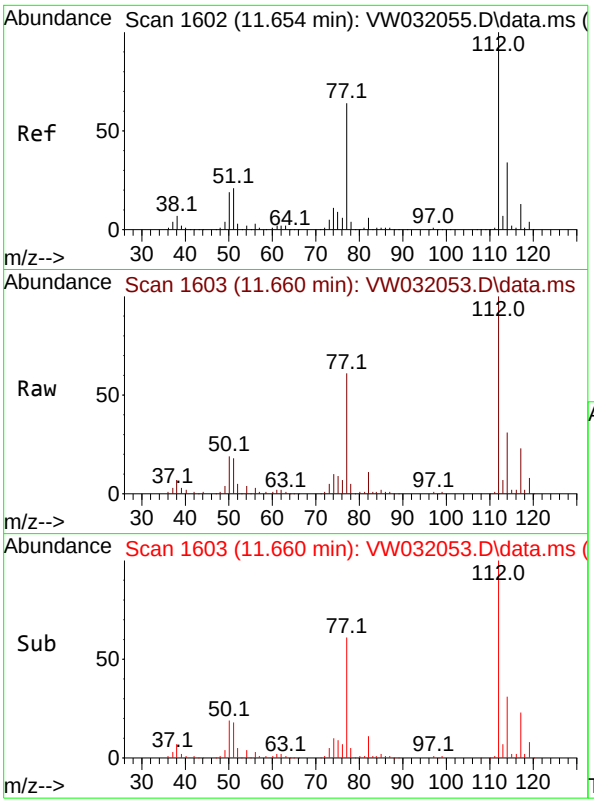


#64
Tetrachloroethene
Concen: 10.431 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:164 Resp: 23235

Ion	Ratio	Lower	Upper
164	100		
166	115.0	100.9	151.3
129	92.9	83.6	125.4
131	89.2	79.3	118.9



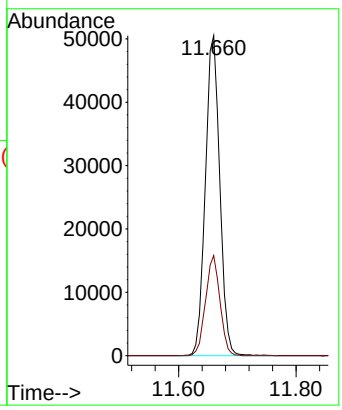


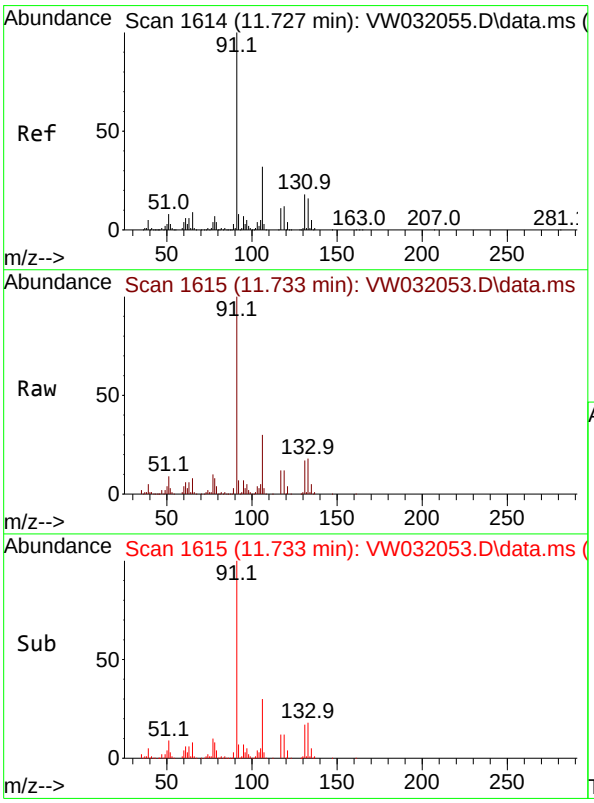
#65
Chlorobenzene
Concen: 10.257 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 86096

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.9	40.3

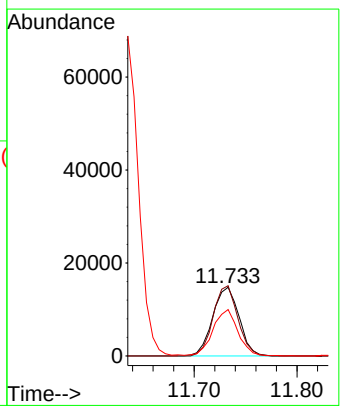


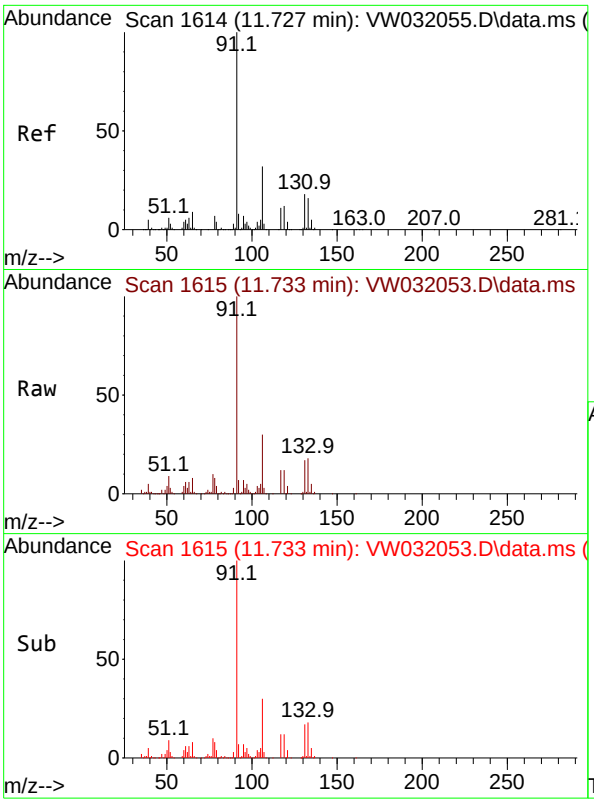


#66
1,1,1,2-Tetrachloroethane
Concen: 10.037 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:131 Resp: 26286

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	142.0
119	64.5	34.5	103.5



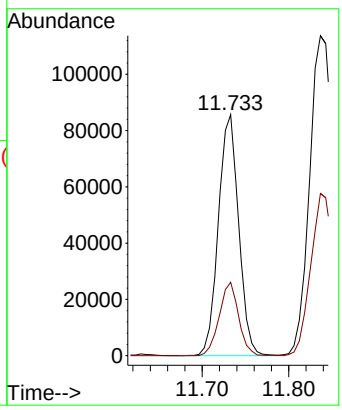


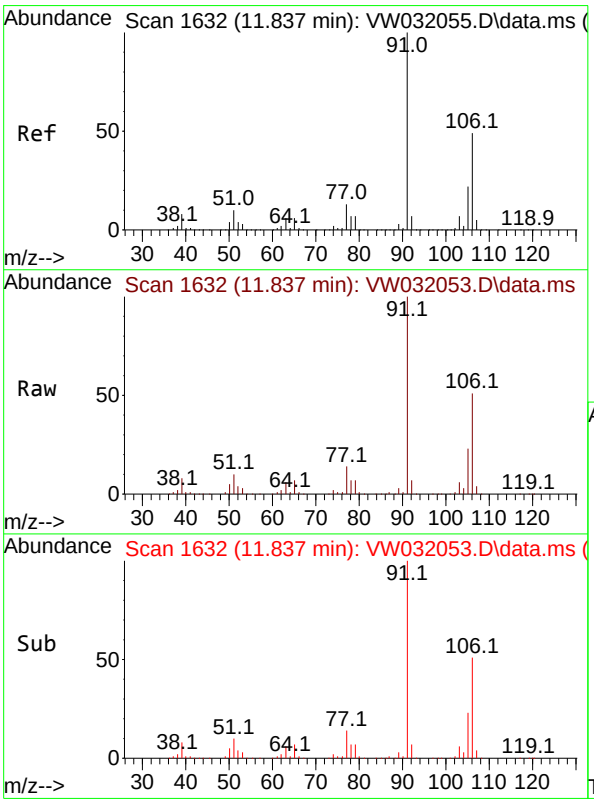
#67
Ethyl Benzene
Concen: 9.794 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 139254

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0

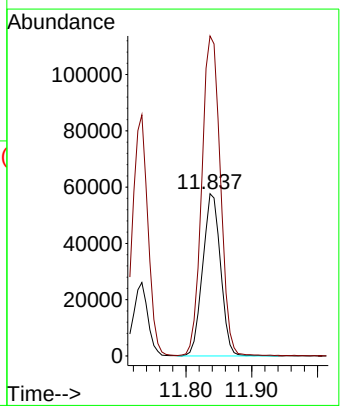


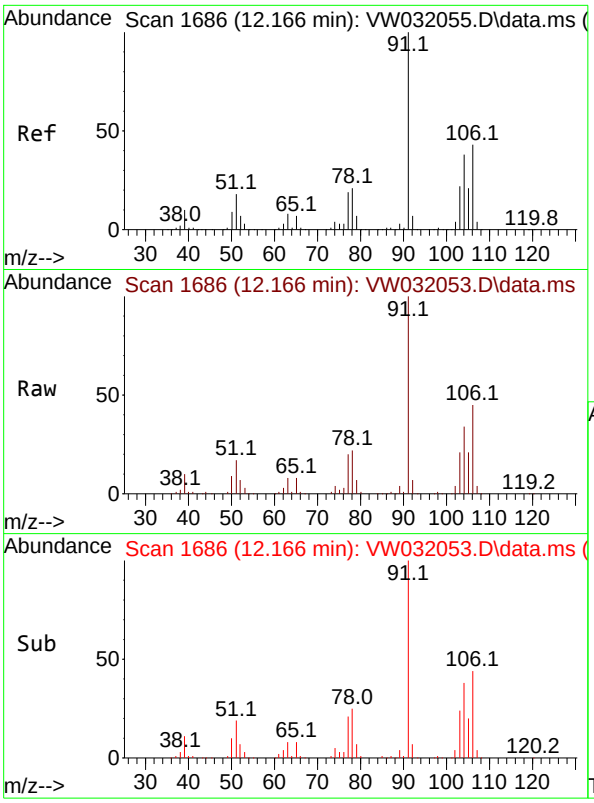


#68
m/p-Xylenes
Concen: 19.866 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 108990

Ion	Ratio	Lower	Upper
106	100		
91	205.0	162.2	243.2



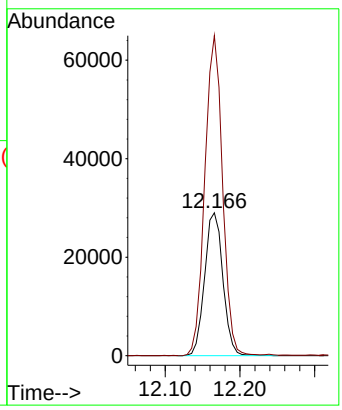


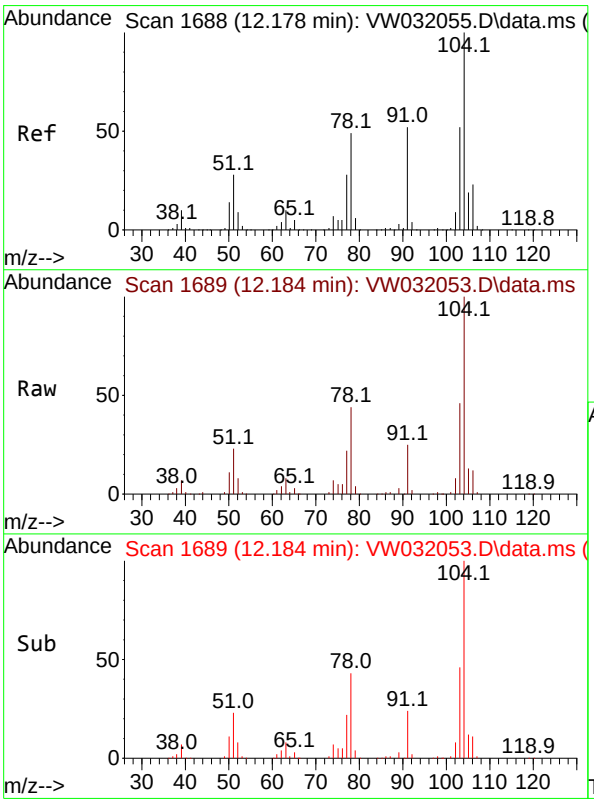
#69
o-Xylene
Concen: 9.714 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 49259

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3

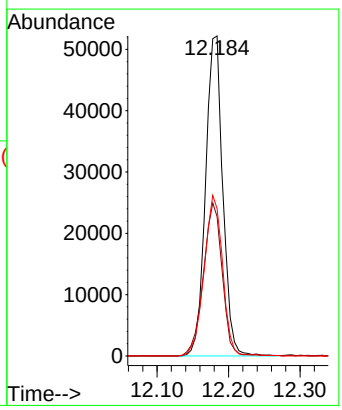


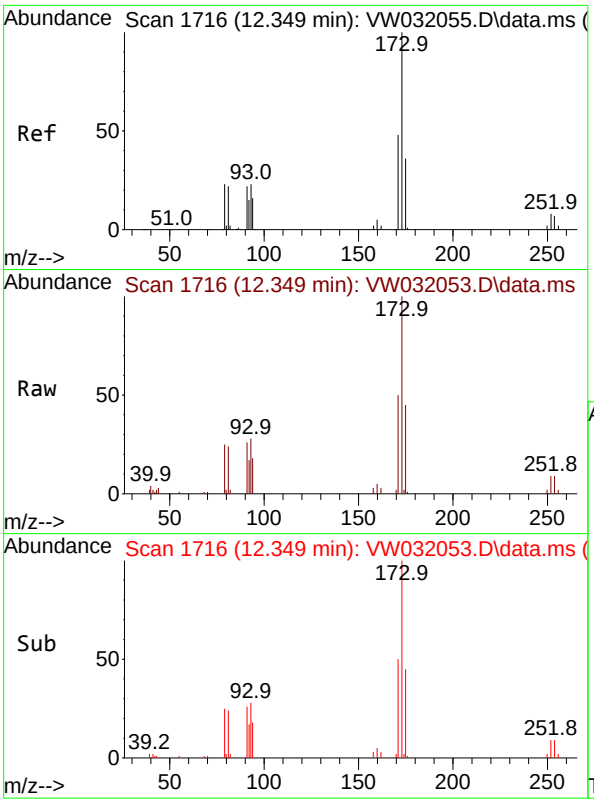


#70
Styrene
Concen: 9.719 ug/l
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:104 Resp: 87542

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.2	61.8
103	53.8	43.8	65.8



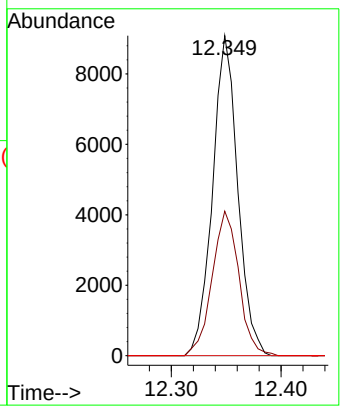


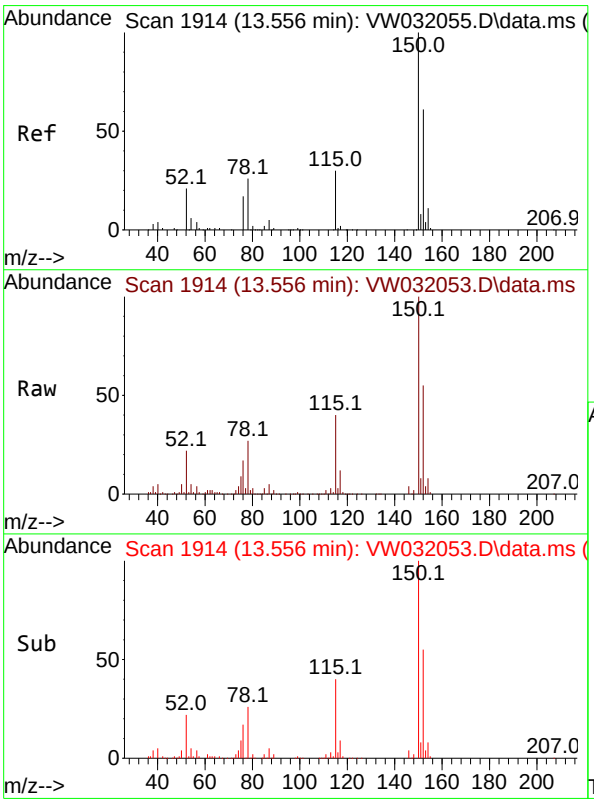
#71
Bromoform
Concen: 9.711 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 14547

Ion	Ratio	Lower	Upper
173	100		
175	47.8	22.9	68.7
254	0.0	0.0	0.0

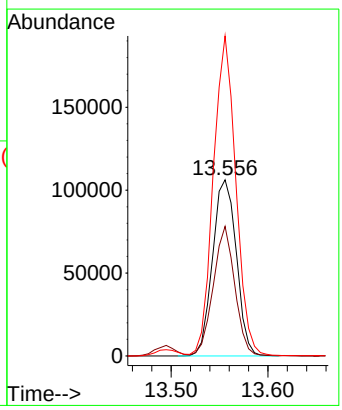


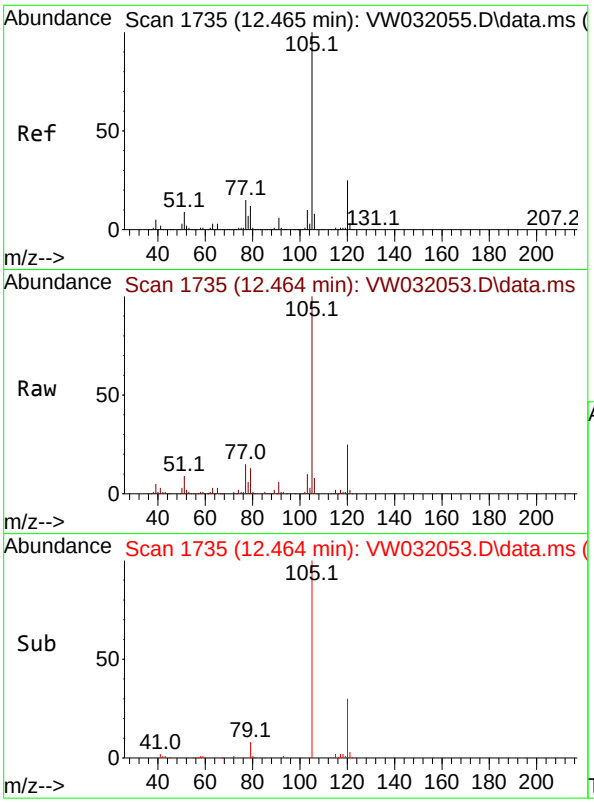


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:152 Resp: 181281

Ion	Ratio	Lower	Upper
152	100		
115	66.5	32.6	97.8
150	171.8	0.0	359.4



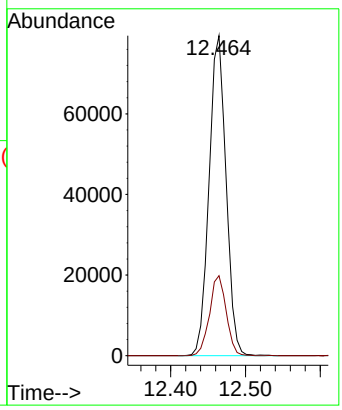


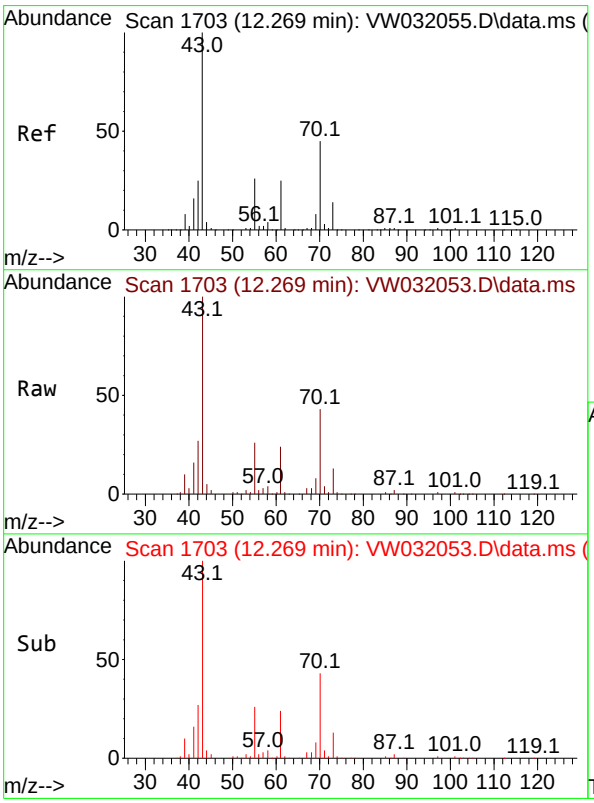
#73
Isopropylbenzene
Concen: 9.886 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 125246

Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.8	38.4

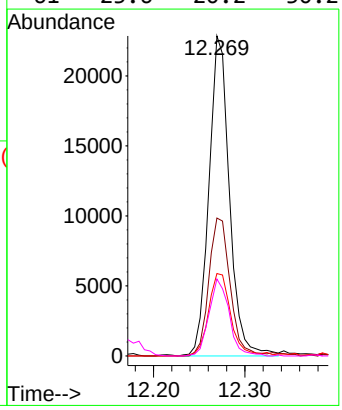


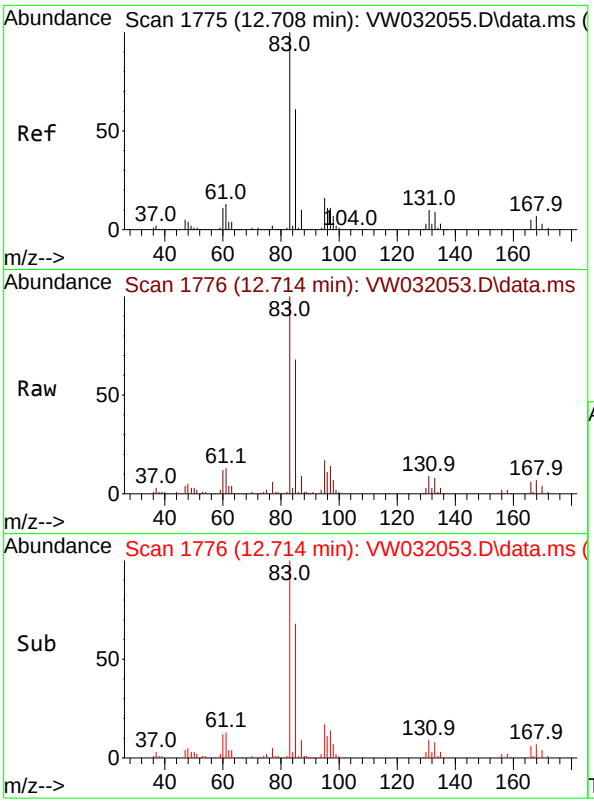


#74
N-amyl acetate
Concen: 9.804 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 35636

Ion	Ratio	Lower	Upper
43	100		
70	44.7	37.0	55.4
55	28.3	21.1	31.7
61	23.6	20.2	30.2



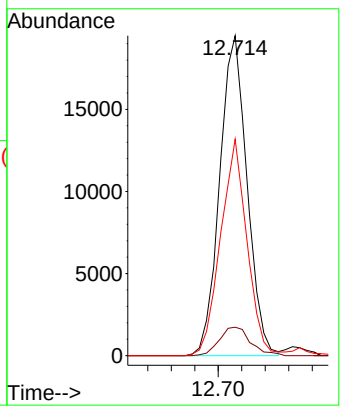


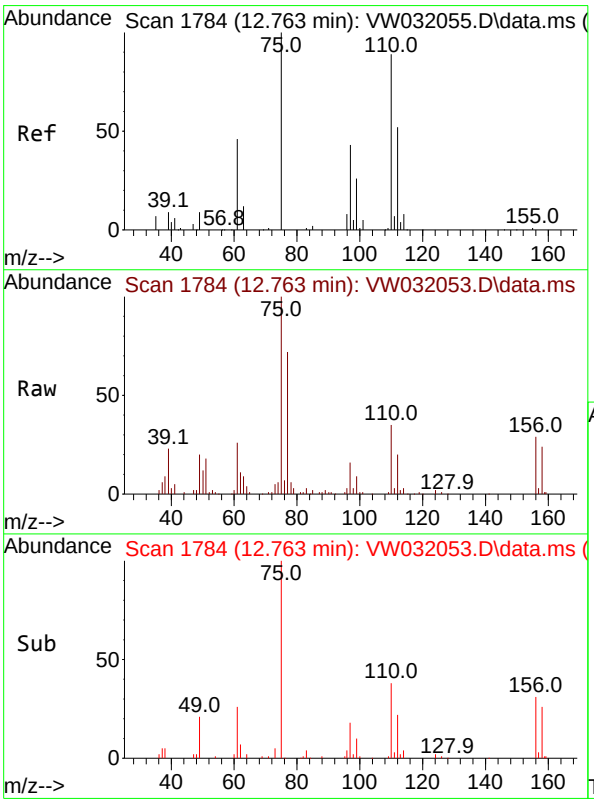
#75
1,1,2,2-Tetrachloroethane
Concen: 10.499 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 31581

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	65.0	32.2	96.6

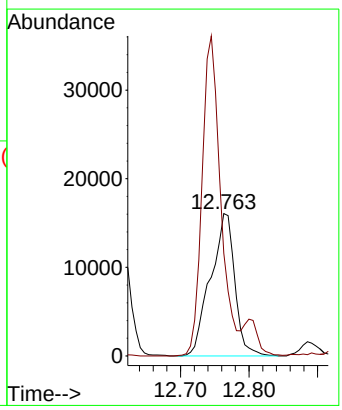


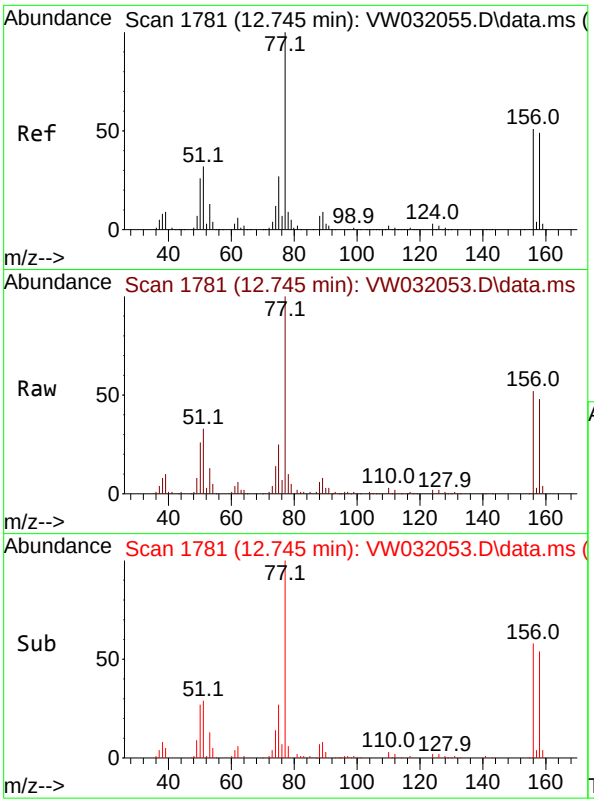


#76
1,2,3-Trichloropropane
Concen: 14.180 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 39515

Ion	Ratio	Lower	Upper
75	100		
77	173.7	123.5	370.5



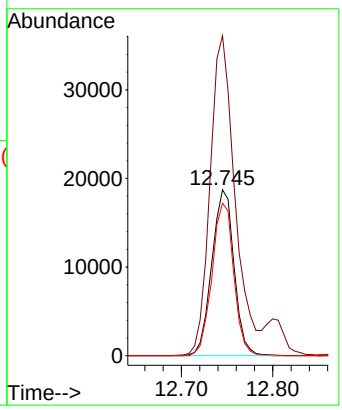


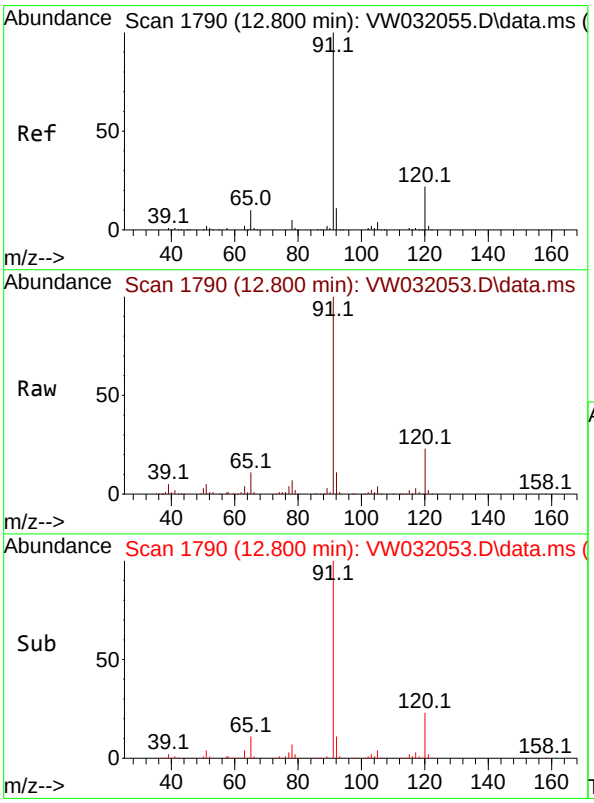
#77
Bromobenzene
Concen: 10.462 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 31656

Ion	Ratio	Lower	Upper
156	100		
77	216.8	108.7	326.3
158	90.0	48.3	144.9

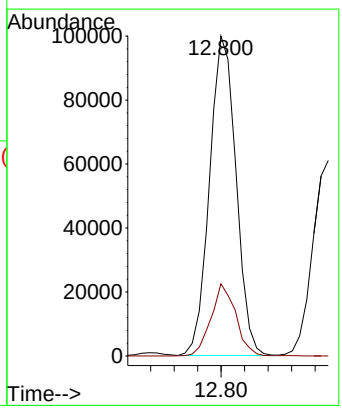


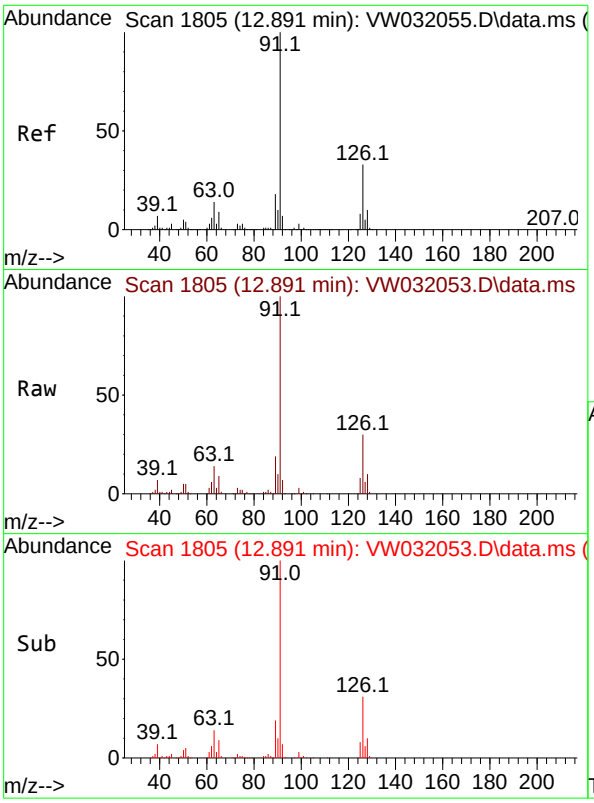


#78
n-propylbenzene
Concen: 10.019 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 156266

Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.1	33.3



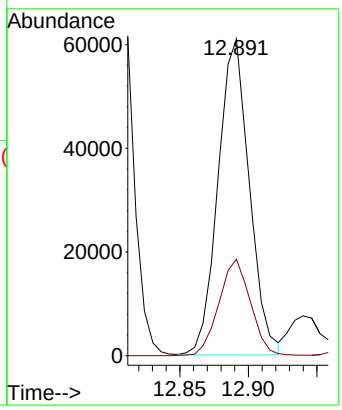


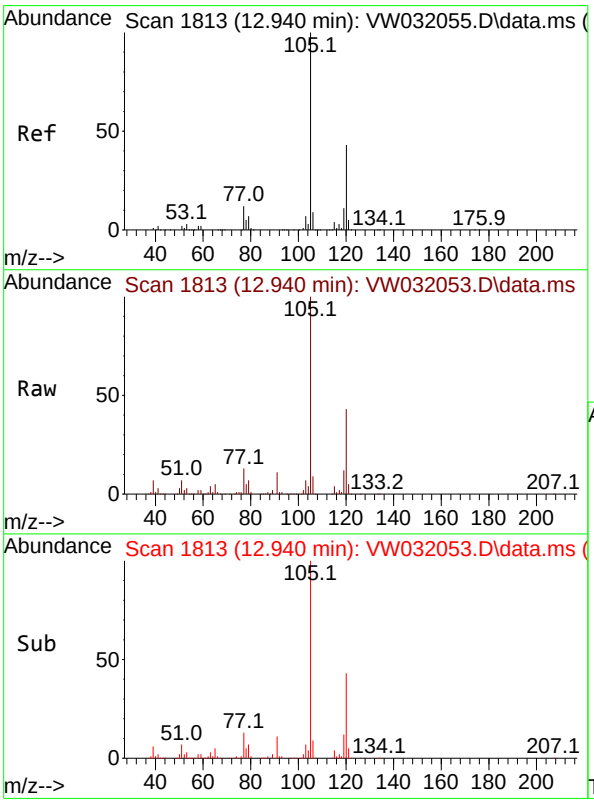
#79
2-Chlorotoluene
Concen: 10.071 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 96942

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

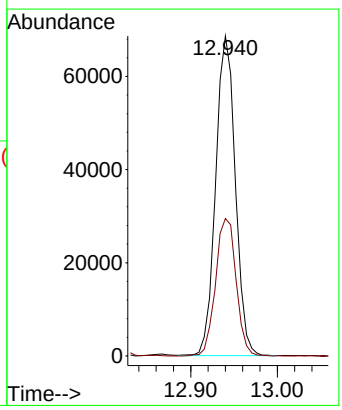


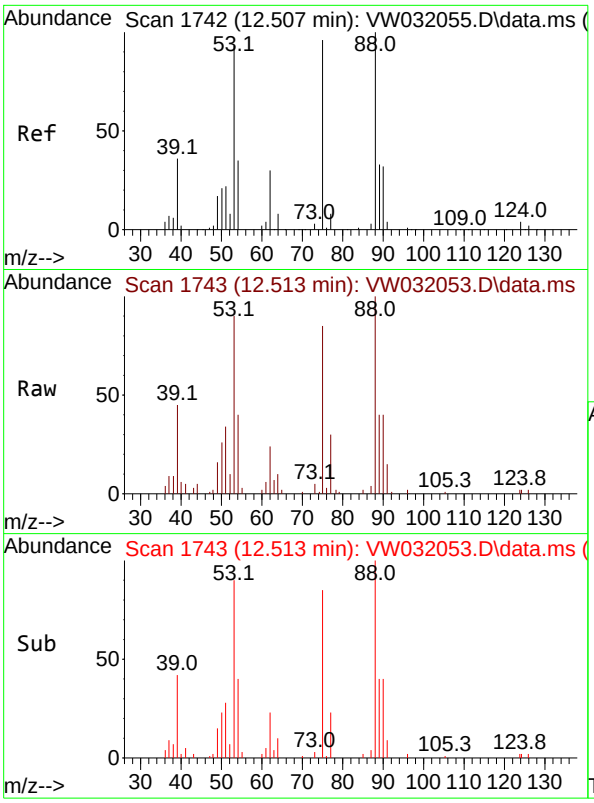


#80
1,3,5-Trimethylbenzene
Concen: 10.053 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 108123

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.4	70.0



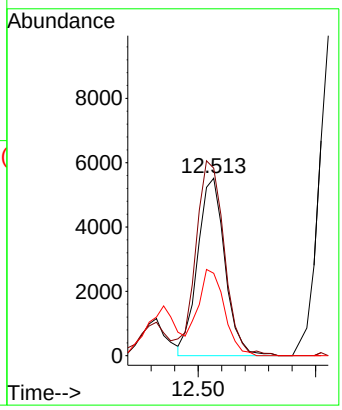


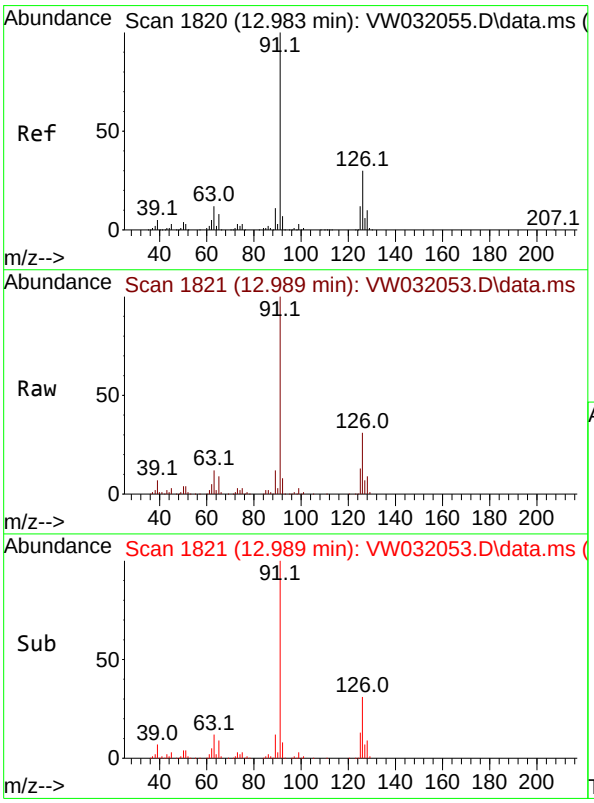
#81
trans-1,4-Dichloro-2-butene
Concen: 9.403 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 8936

Ion	Ratio	Lower	Upper
75	100		
53	115.3	81.0	121.6
89	47.3	37.3	55.9

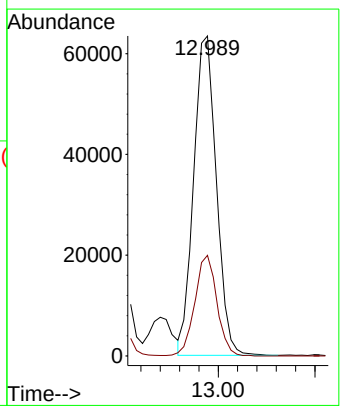


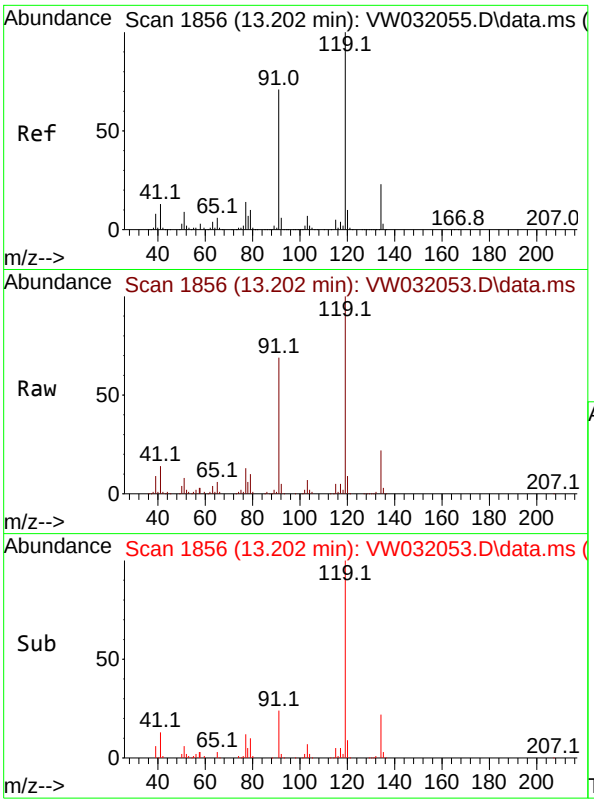


#82
4-Chlorotoluene
Concen: 10.103 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 103329

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.5	46.5



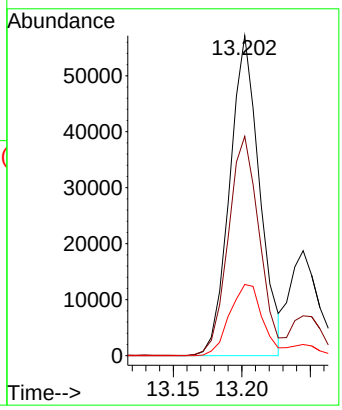


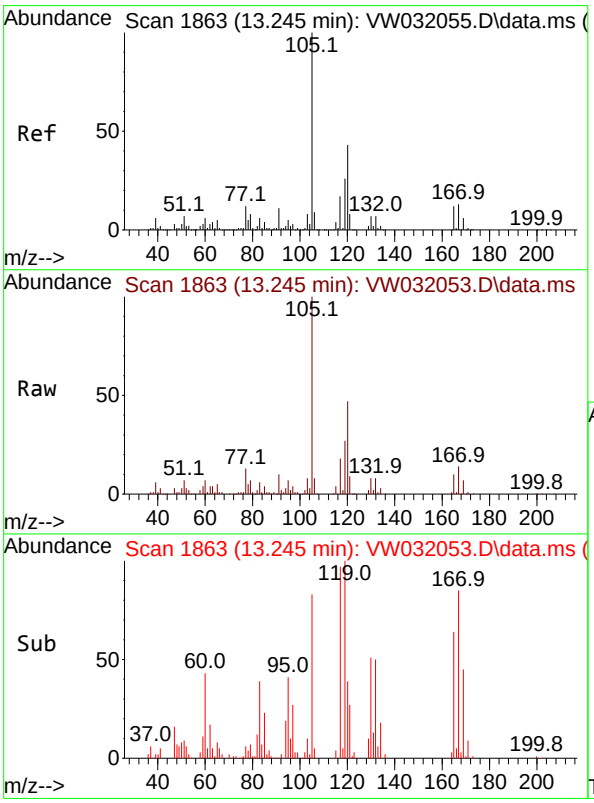
#83
tert-Butylbenzene
Concen: 9.729 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 86848

Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.3	105.9
134	24.8	12.1	36.3

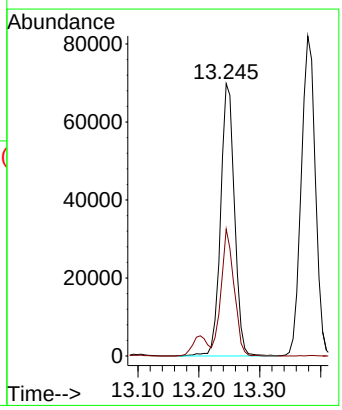


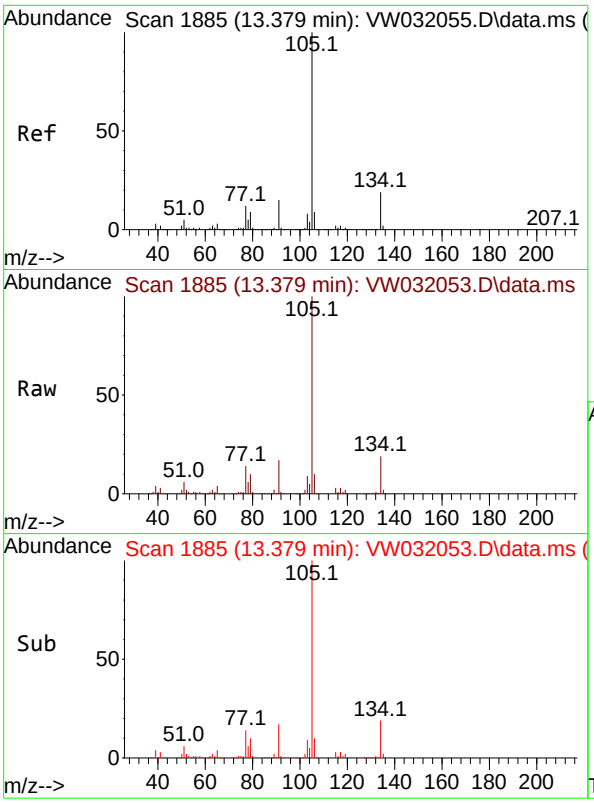


#84
1,2,4-Trimethylbenzene
Concen: 10.110 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 110697

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8



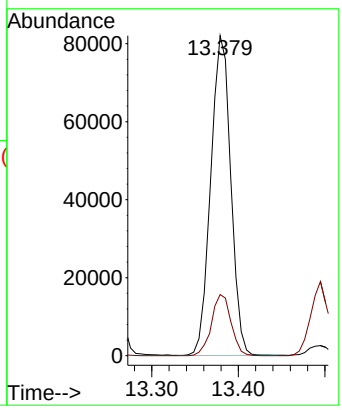


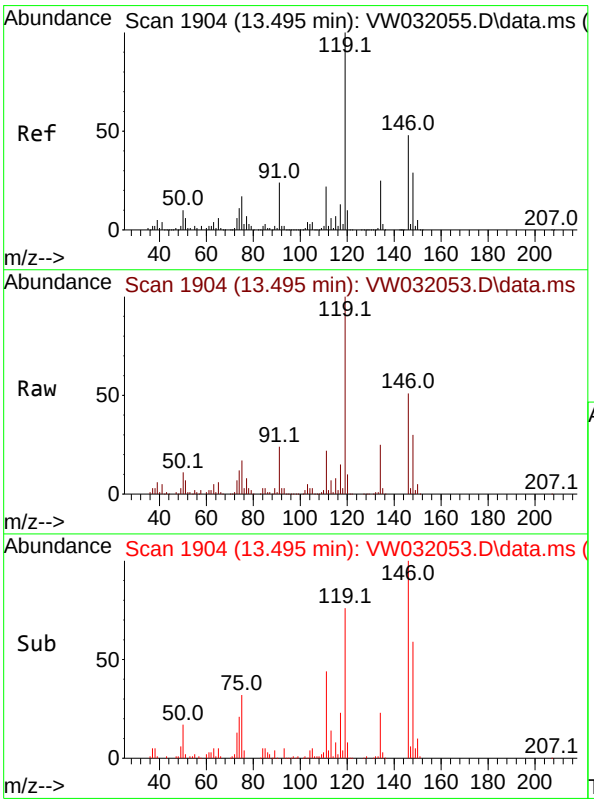
#85
sec-Butylbenzene
Concen: 9.756 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 131663

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

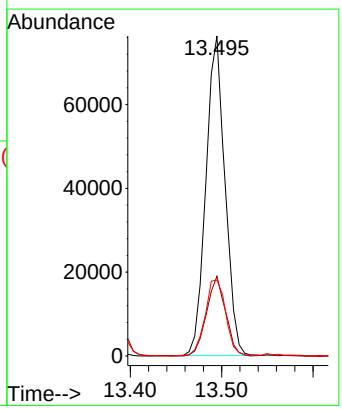


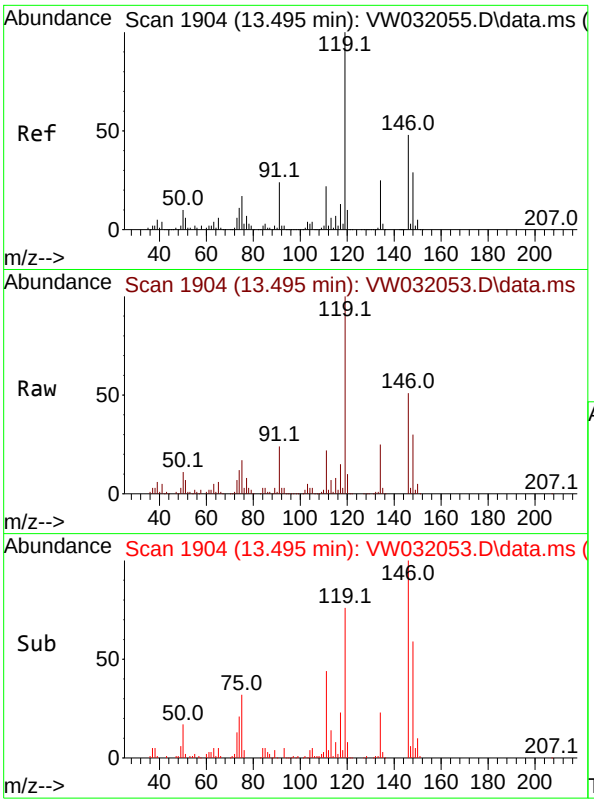


#86
p-Isopropyltoluene
Concen: 9.827 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 110557

Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.4	37.0
91	25.8	12.1	36.3



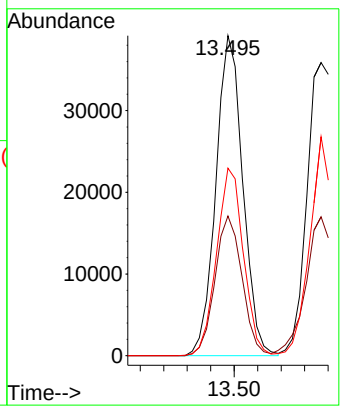


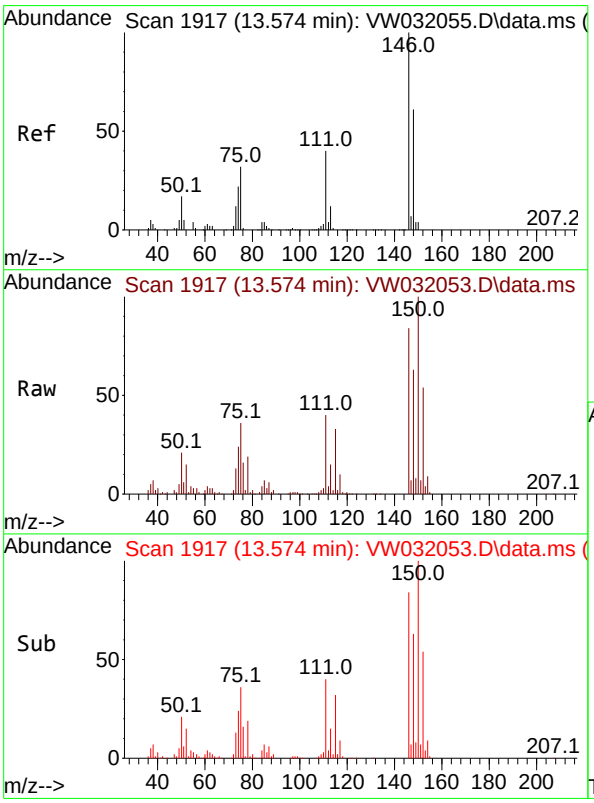
#87
1,3-Dichlorobenzene
Concen: 10.361 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 62383

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.2	63.6
148	58.5	30.3	90.8

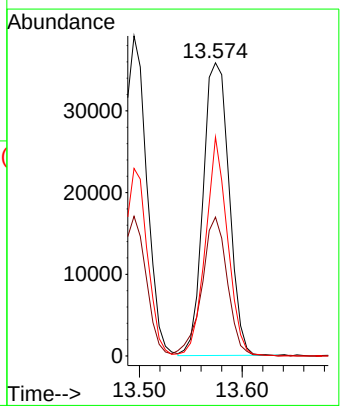


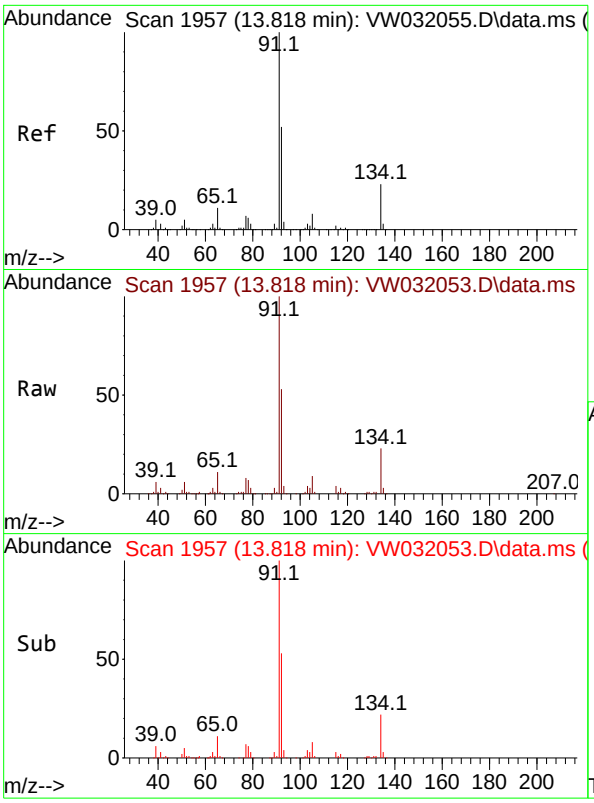


#88
1,4-Dichlorobenzene
Concen: 10.328 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 62843

Ion	Ratio	Lower	Upper
146	100		
111	46.7	21.6	64.6
148	63.8	32.0	96.2



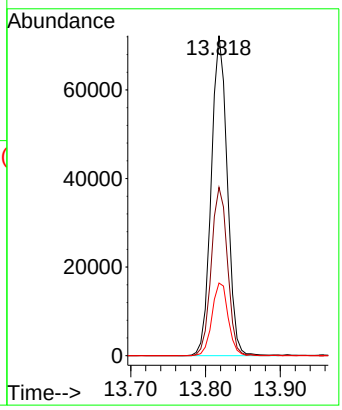


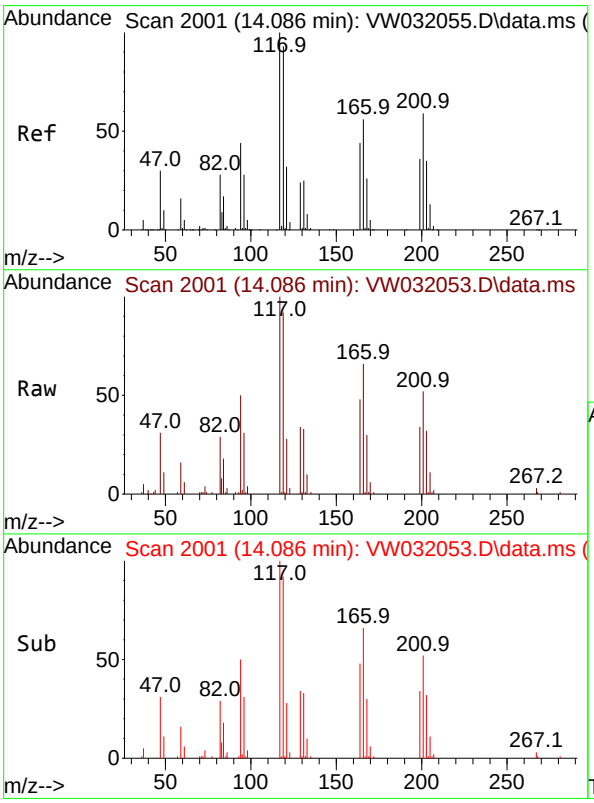
#89
n-Butylbenzene
Concen: 9.881 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 108004

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.1
134	22.8	12.0	36.1

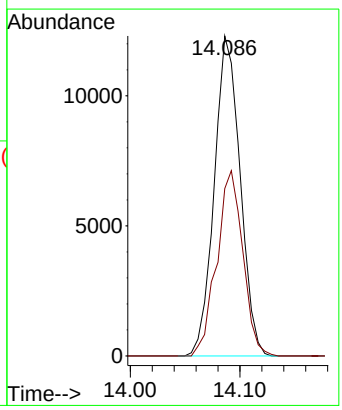


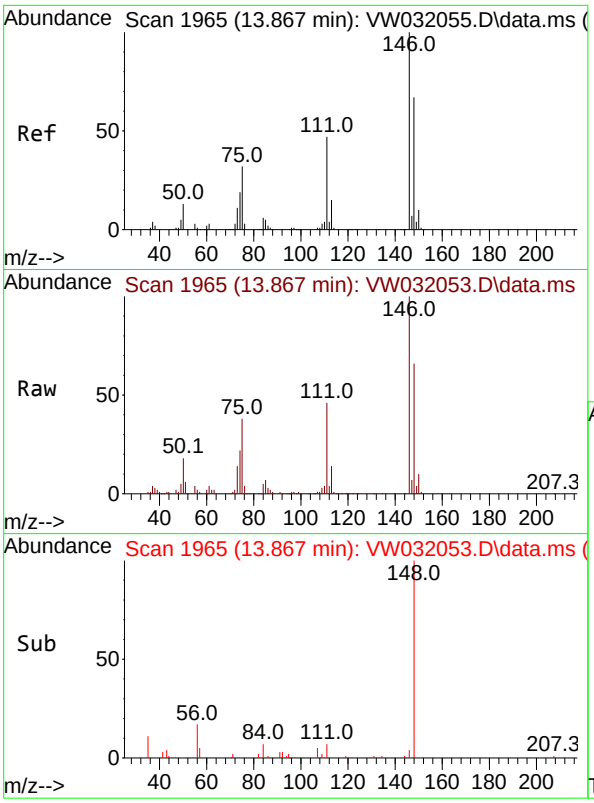


#90
Hexachloroethane
Concen: 9.805 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 20175

Ion	Ratio	Lower	Upper
117	100		
201	58.3	30.9	92.5



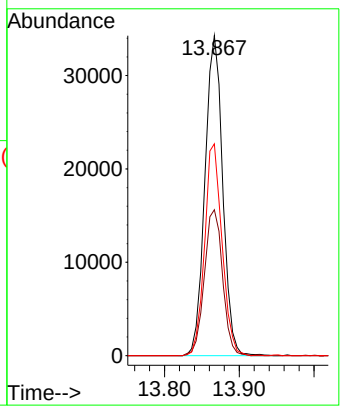


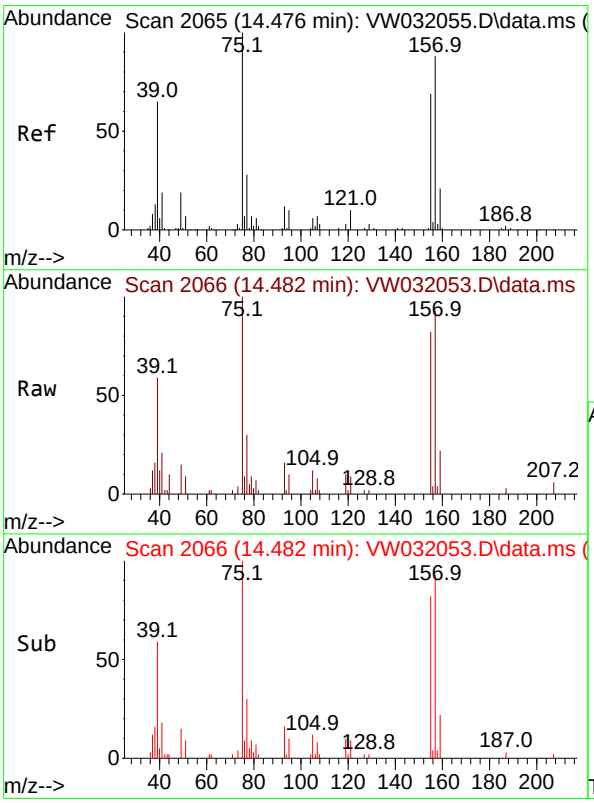
#91
1,2-Dichlorobenzene
Concen: 10.359 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 56501

Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.1	69.3
148	64.9	32.9	98.6

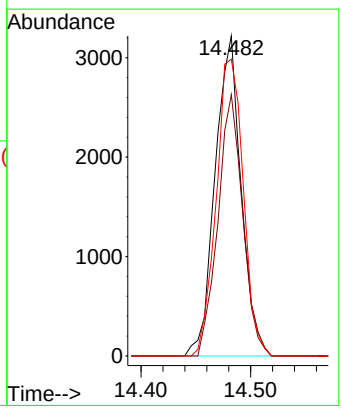


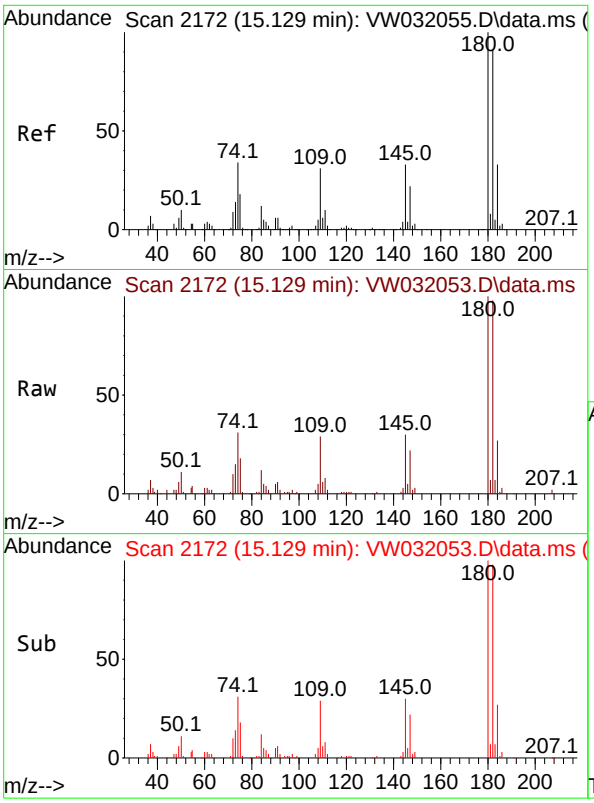


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.920 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 5305

Ion	Ratio	Lower	Upper
75	100		
155	77.5	35.2	105.6
157	96.6	47.5	142.6



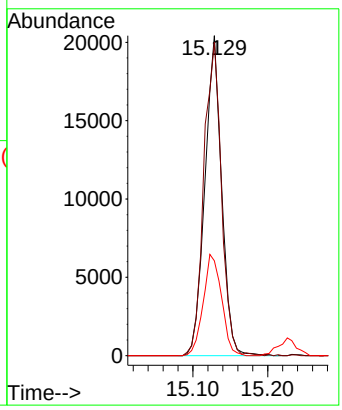


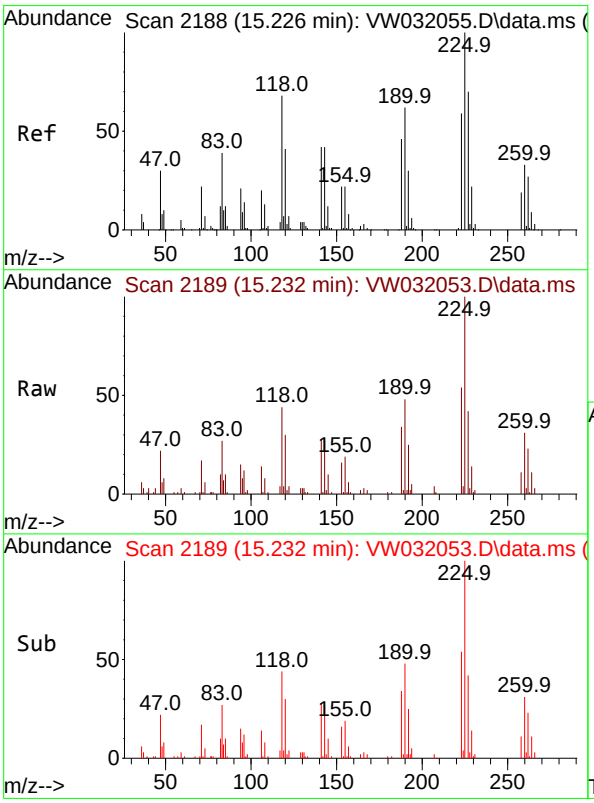
#93
1,2,4-Trichlorobenzene
Concen: 9.751 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 31816

Ion	Ratio	Lower	Upper
180	100		
182	102.4	49.0	147.0
145	34.6	17.3	51.9

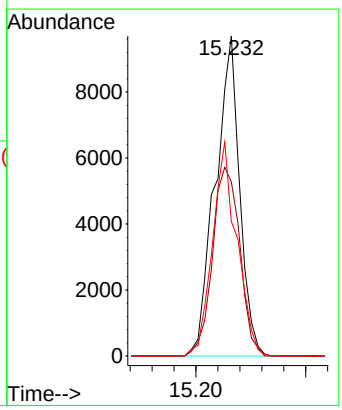


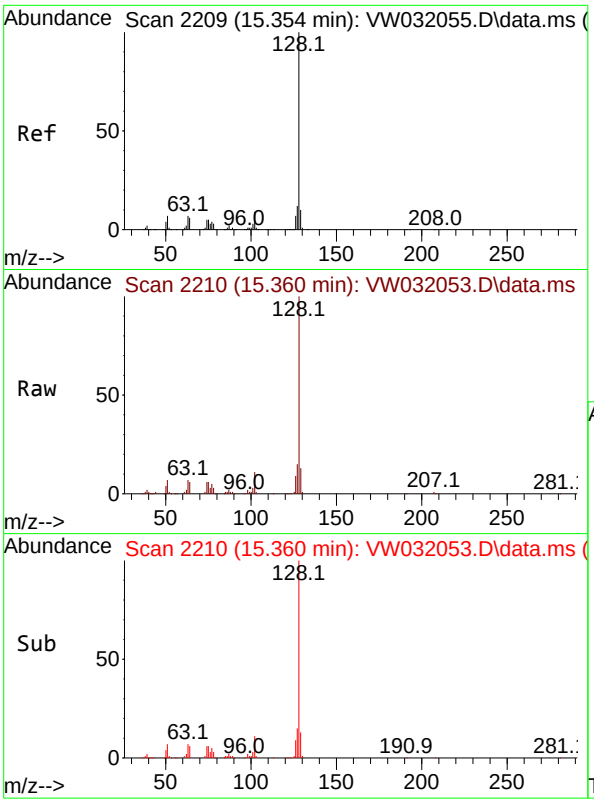


#94
Hexachlorobutadiene
Concen: 10.276 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:225 Resp: 14987

Ion	Ratio	Lower	Upper
225	100		
223	65.5	31.8	95.3
227	66.4	33.5	100.5



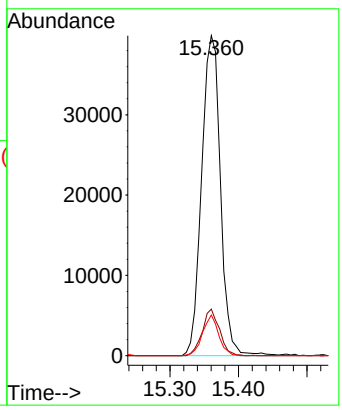


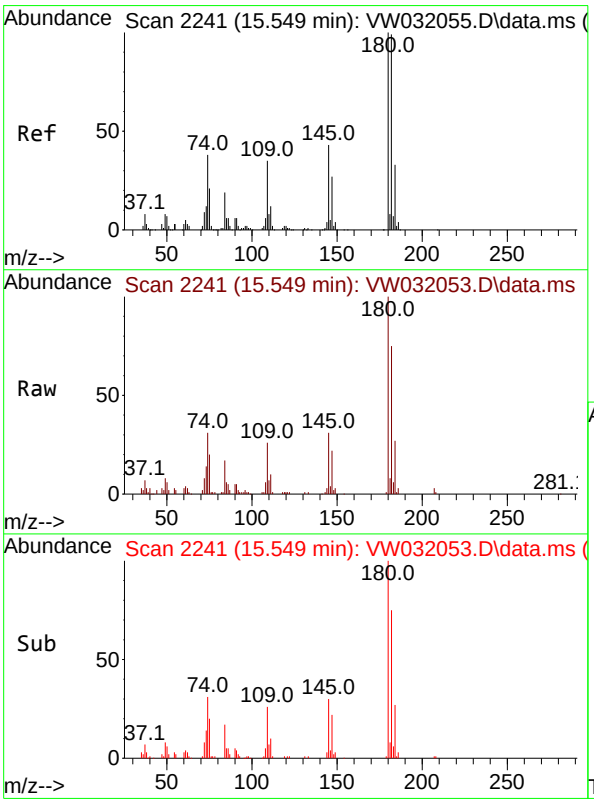
#95
Naphthalene
Concen: 9.542 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 76287

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.9	8.2	12.4

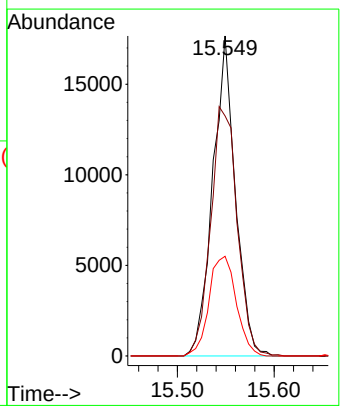




#96
1,2,3-Trichlorobenzene
Concen: 9.660 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 28678

Ion	Ratio	Lower	Upper
180	100		
182	91.5	46.0	138.0
145	37.6	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	221832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	428395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	386857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	191343	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	63857	19.904	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	39.800%#		
35) Dibromofluoromethane	7.898	113	55788	20.158	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	40.320%#		
50) Toluene-d8	10.325	98	206901	20.212	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	40.420%#		
62) 4-Bromofluorobenzene	12.617	95	76008	20.149	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	40.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	34171	21.537	ug/l	94
3) Chloromethane	2.253	50	44499	20.821	ug/l	99
4) Vinyl Chloride	2.405	62	57293	22.162	ug/l	91
5) Bromomethane	2.814	94	41008	21.144	ug/l	93
6) Chloroethane	2.966	64	36220	21.173	ug/l	100
7) Trichlorofluoromethane	3.302	101	38977	18.821	ug/l	99
8) Diethyl Ether	3.716	74	34764	20.489	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.088	101	52165	21.351	ug/l	99
10) Methyl Iodide	4.308	142	74197	21.419	ug/l	99
11) Tert butyl alcohol	5.216	59	18539	89.237	ug/l	100
12) 1,1-Dichloroethene	4.076	96	57624	21.419	ug/l	98
13) Acrolein	3.923	56	32512	98.218	ug/l	96
14) Allyl chloride	4.698	41	81458	20.804	ug/l	99
15) Acrylonitrile	5.393	53	75311	93.190	ug/l	98
16) Acetone	4.155	43	67134	90.379	ug/l	99
17) Carbon Disulfide	4.417	76	153247	21.222	ug/l	97
18) Methyl Acetate	4.704	43	43536	18.522	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	96253	20.306	ug/l	99
20) Methylene Chloride	4.948	84	74547	21.706	ug/l	94
21) trans-1,2-Dichloroethene	5.454	96	59717	20.917	ug/l	97
22) Diisopropyl ether	6.338	45	172071	20.846	ug/l	99
23) Vinyl Acetate	6.277	43	539862	99.617	ug/l	99
24) 1,1-Dichloroethane	6.240	63	110835	21.016	ug/l	98
25) 2-Butanone	7.191	43	96191	91.114	ug/l	97
26) 2,2-Dichloropropane	7.179	77	53780	20.327	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	68545	20.540	ug/l	99
28) Bromochloromethane	7.527	49	48715	20.298	ug/l	99
29) Tetrahydrofuran	7.551	42	64317	92.379	ug/l	98
30) Chloroform	7.691	83	117474	21.011	ug/l	97
31) Cyclohexane	7.965	56	95253	20.833	ug/l	98
32) 1,1,1-Trichloroethane	7.880	97	85600	21.078	ug/l	97
36) 1,1-Dichloropropene	8.087	75	80811	20.712	ug/l	99
37) Ethyl Acetate	7.270	43	41235	17.945	ug/l	98
38) Carbon Tetrachloride	8.081	117	77289	20.527	ug/l	91
39) Methylcyclohexane	9.337	83	97412	20.484	ug/l	94
40) Benzene	8.331	78	246590	20.333	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	25075	19.242	ug/l		97
42) 1,2-Dichloroethane	8.410	62	78543	20.239	ug/l		99
43) Isopropyl Acetate	8.435	43	78887	18.660	ug/l		98
44) Trichloroethene	9.099	130	58636	20.302	ug/l		99
45) 1,2-Dichloropropane	9.374	63	60346	20.597	ug/l		100
46) Dibromomethane	9.465	93	37580	19.873	ug/l		98
47) Bromodichloromethane	9.648	83	86577	19.869	ug/l		92
48) Methyl methacrylate	9.441	41	38175	18.704	ug/l		97
49) 1,4-Dioxane	9.459	88	8924	364.998	ug/l		97
51) 4-Methyl-2-Pentanone	10.209	43	220661	92.472	ug/l		99
52) Toluene	10.392	92	155974	20.418	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	79452	19.463	ug/l		97
54) cis-1,3-Dichloropropene	10.075	75	90828	19.612	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	49974	19.888	ug/l		95
56) Ethyl methacrylate	10.648	69	62694	18.645	ug/l		97
57) 1,3-Dichloropropane	10.934	76	86678	19.790	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	176339	94.809	ug/l		98
59) 2-Hexanone	10.971	43	151264	91.530	ug/l		100
60) Dibromochloromethane	11.130	129	56607	19.721	ug/l		100
61) 1,2-Dibromoethane	11.233	107	47302	19.371	ug/l		100
64) Tetrachloroethene	10.861	164	45660	20.434	ug/l		99
65) Chlorobenzene	11.654	112	169830	20.169	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.727	131	52937	20.150	ug/l		98
67) Ethyl Benzene	11.727	91	297193	20.836	ug/l		97
68) m/p-Xylenes	11.837	106	233224	42.376	ug/l		98
69) o-Xylene	12.166	106	104192	20.482	ug/l		100
70) Styrene	12.178	104	189664	20.991	ug/l		98
71) Bromoform	12.349	173	28540	18.991	ug/l	#	96
73) Isopropylbenzene	12.459	105	269829	20.178	ug/l		99
74) N-amyl acetate	12.270	43	69075	18.005	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.709	83	58836	18.531	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	73585	25.017	ug/l		63
77) Bromobenzene	12.745	156	61389	19.221	ug/l		98
78) n-propylbenzene	12.800	91	337098	20.476	ug/l		100
79) 2-Chlorotoluene	12.885	91	203918	20.069	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	229615	20.226	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.507	75	17512	17.458	ug/l		92
82) 4-Chlorotoluene	12.983	91	218637	20.253	ug/l		98
83) tert-Butylbenzene	13.202	119	194168	20.608	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	240078	20.774	ug/l		100
85) sec-Butylbenzene	13.379	105	292689	20.547	ug/l		97
86) p-Isopropyltoluene	13.495	119	245081	20.638	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	128893	20.282	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	133097	20.724	ug/l		97
89) n-Butylbenzene	13.818	91	234522	20.328	ug/l		99
90) Hexachloroethane	14.086	117	43226	19.904	ug/l		93
91) 1,2-Dichlorobenzene	13.861	146	114056	19.812	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10011	17.736	ug/l		95
93) 1,2,4-Trichlorobenzene	15.123	180	69229	20.102	ug/l		95
94) Hexachlorobutadiene	15.226	225	30358	19.720	ug/l		91
95) Naphthalene	15.360	128	153137	18.147	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	61526	19.635	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

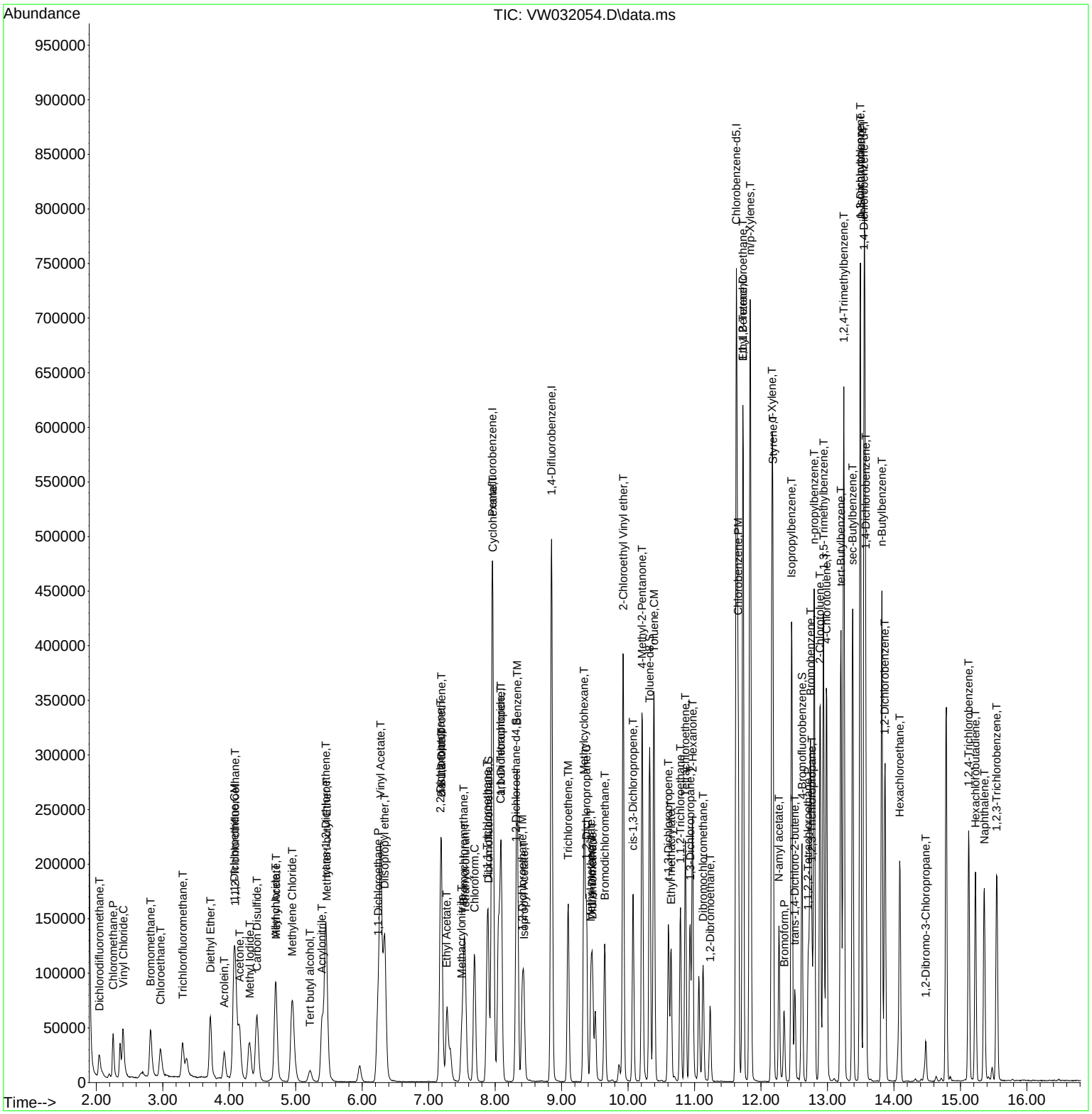
(#) = qualifier out of range (m) = manual integration (+) = signals summed

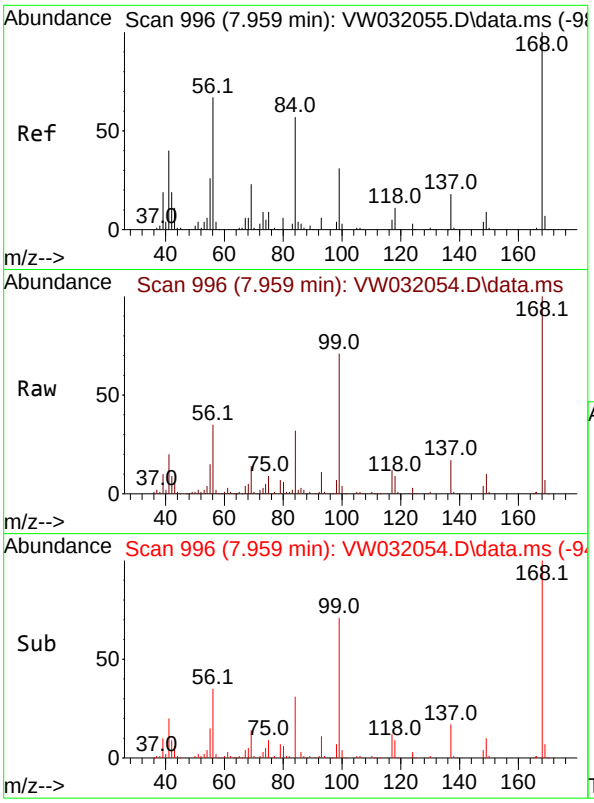
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



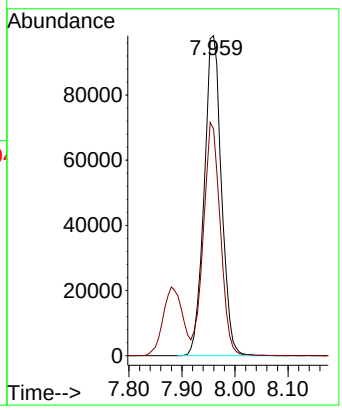


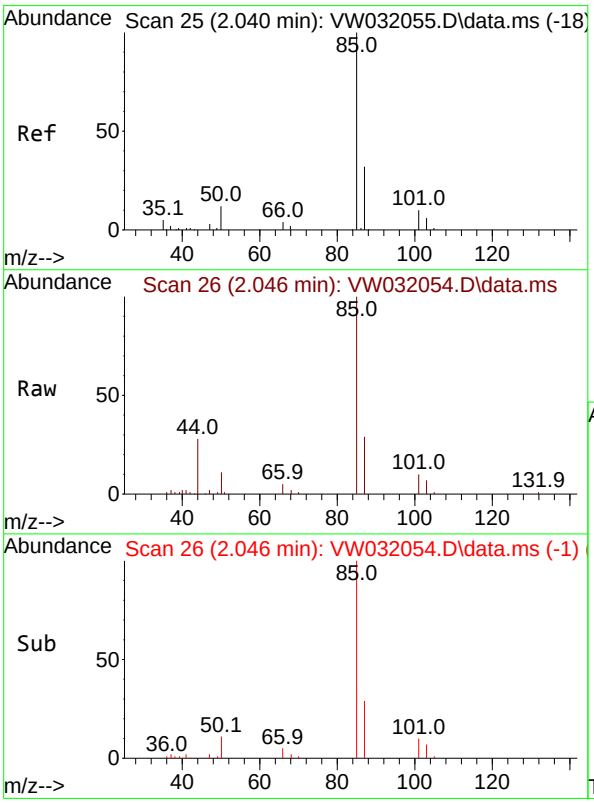
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 221832

Ion	Ratio	Lower	Upper
168	100		
99	70.9	56.0	84.0

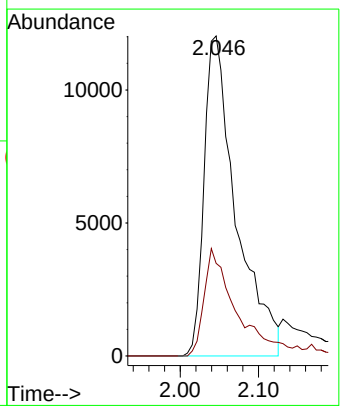


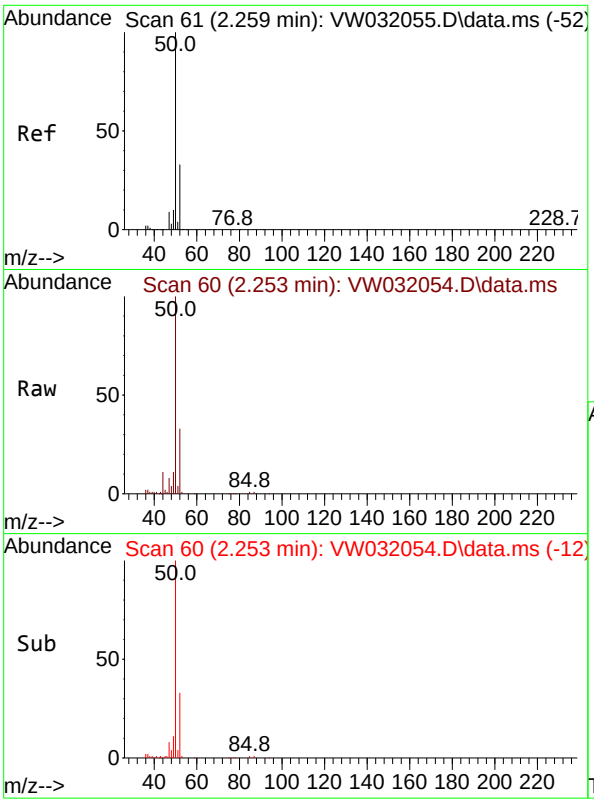


#2
Dichlorodifluoromethane
Concen: 21.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 85 Resp: 34171

Ion	Ratio	Lower	Upper
85	100		
87	29.0	16.2	48.6



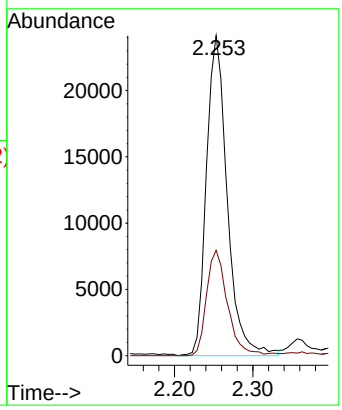


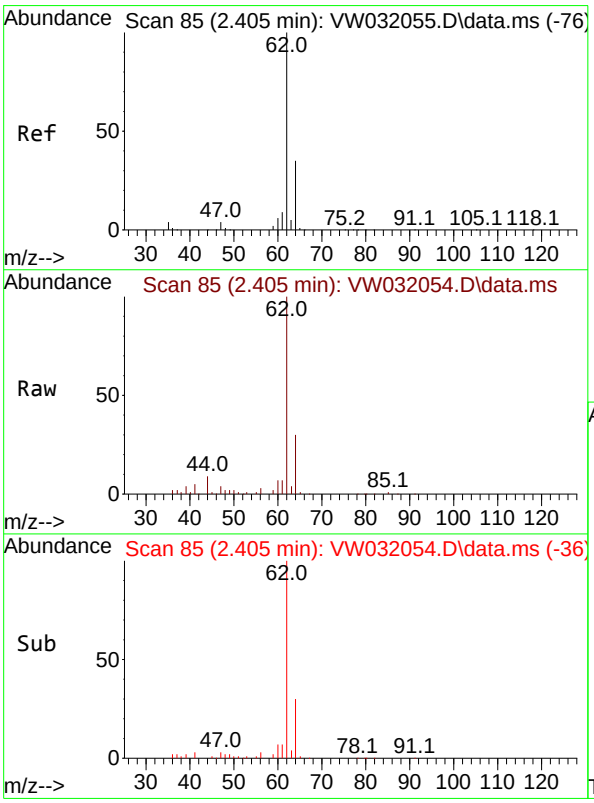
#3
Chloromethane
Concen: 20.821 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 44499

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.6	39.8

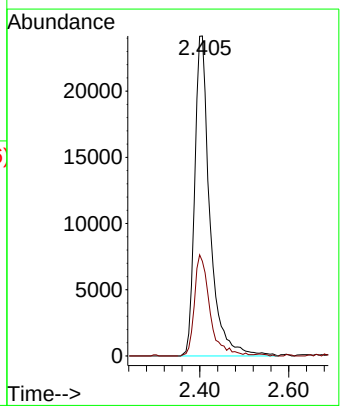


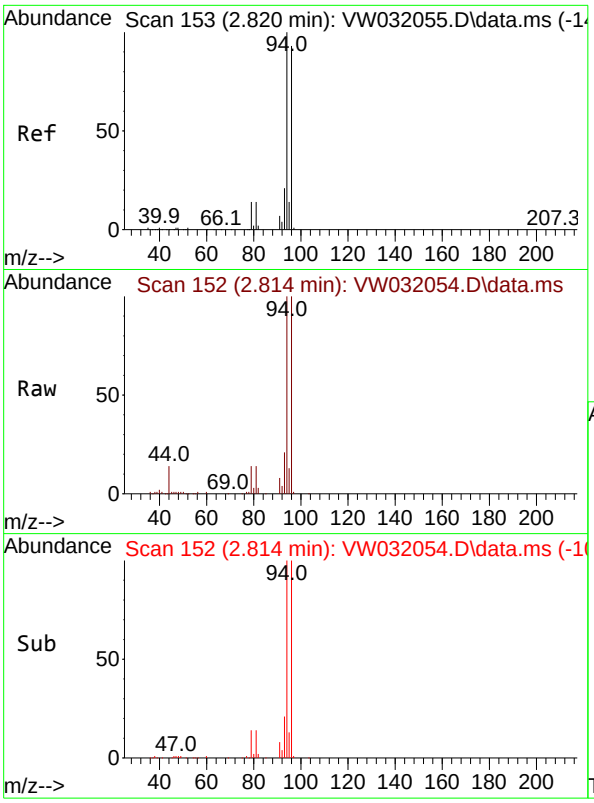


#4
Vinyl Chloride
Concen: 22.162 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 57293

Ion	Ratio	Lower	Upper
62	100		
64	29.6	27.8	41.6



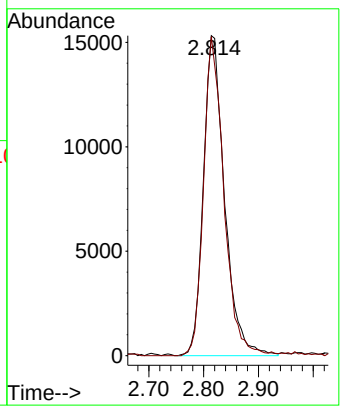


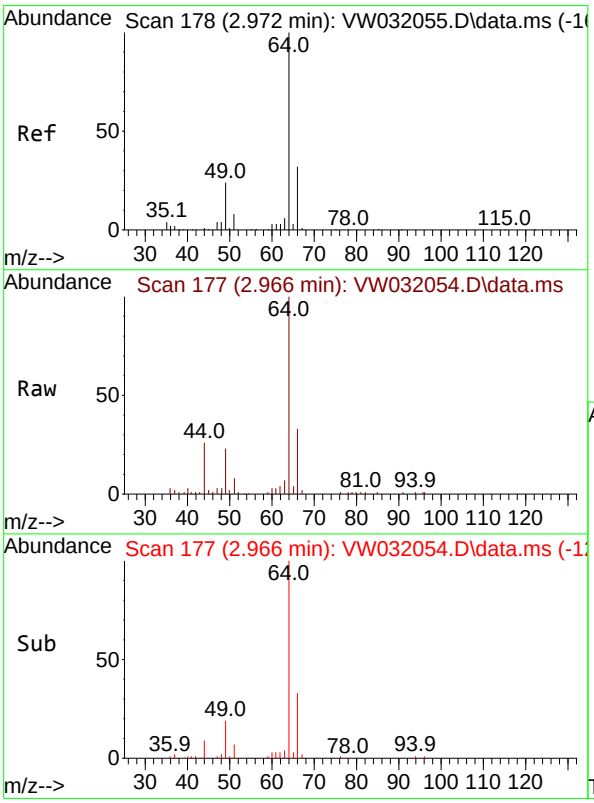
#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 41008

Ion	Ratio	Lower	Upper
94	100		
96	99.7	74.7	112.1

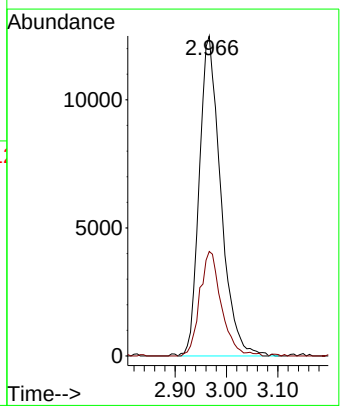


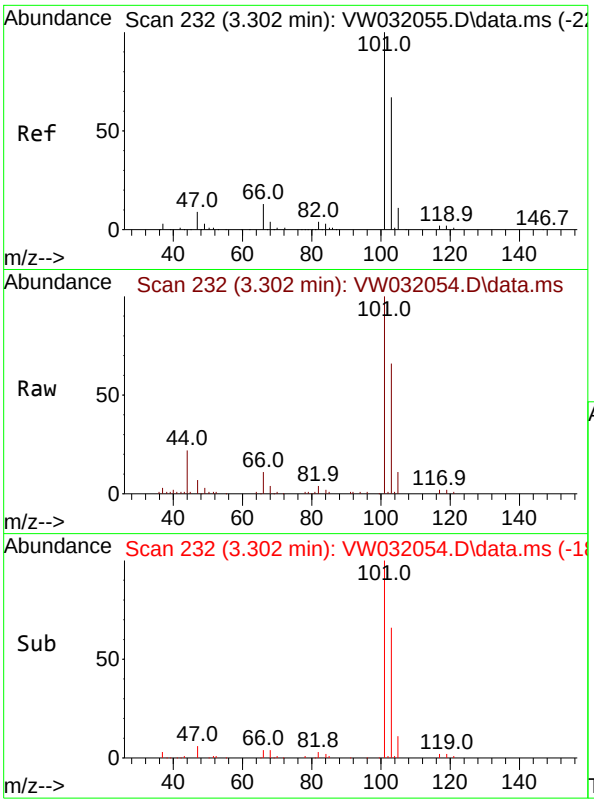


#6
Chloroethane
Concen: 21.173 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 64 Resp: 36220

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0



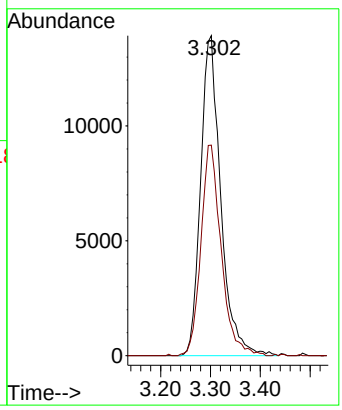


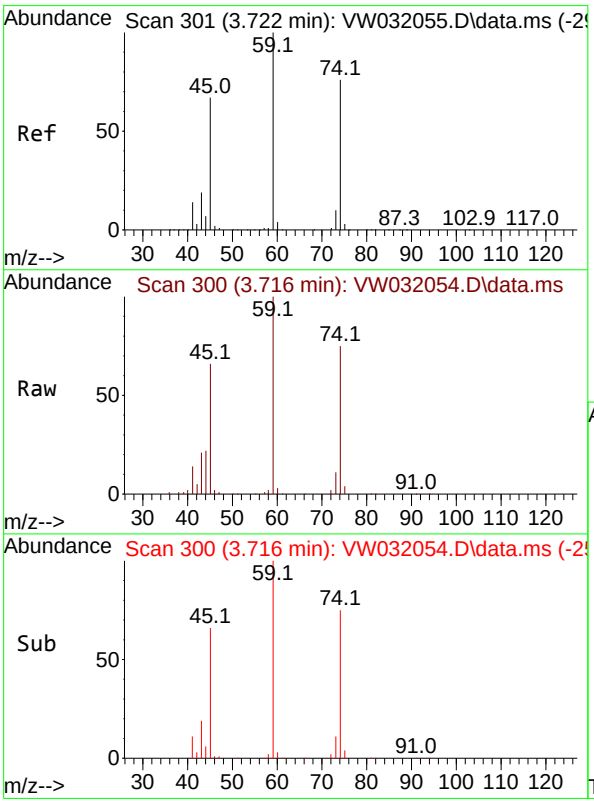
#7
Trichlorofluoromethane
Concen: 18.821 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 38977

Ion	Ratio	Lower	Upper
101	100		
103	65.8	53.4	80.0

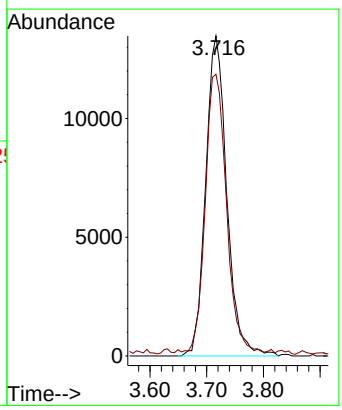


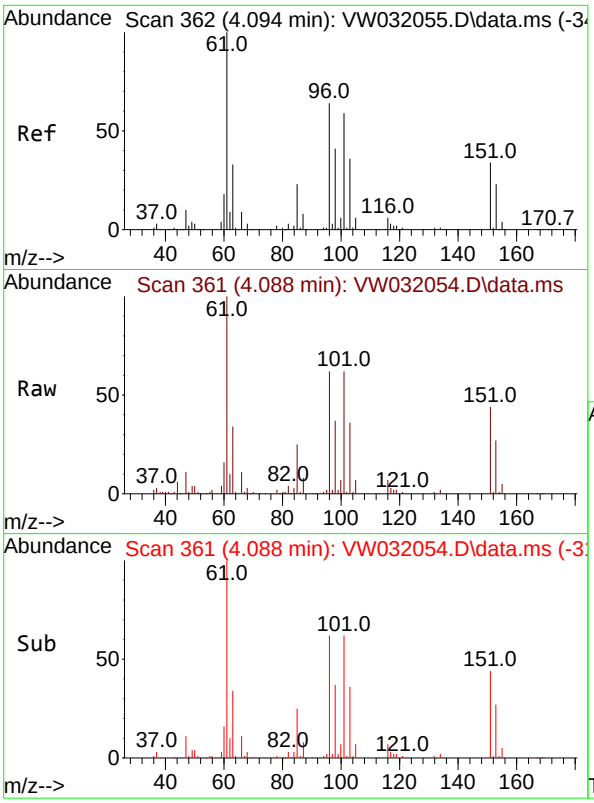


#8
Diethyl Ether
Concen: 20.489 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 74 Resp: 34764

Ion	Ratio	Lower	Upper
74	100		
45	86.6	45.4	136.2



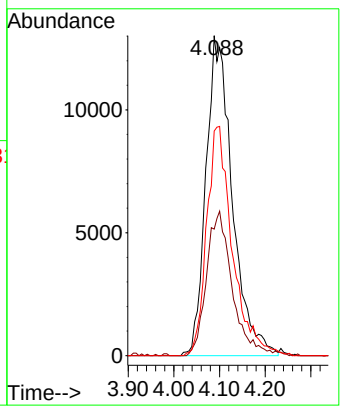


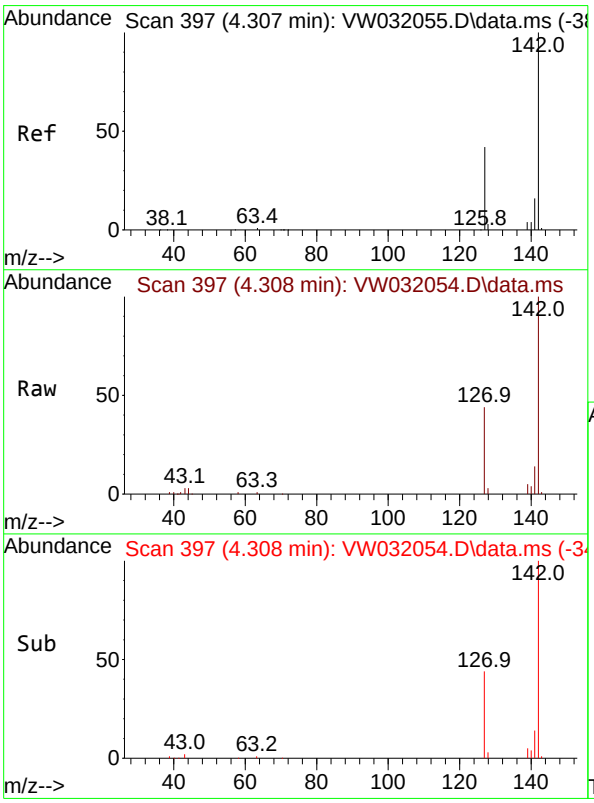
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.351 ug/l
RT: 4.088 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 52165

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.9	52.3
151	70.0	56.2	84.4

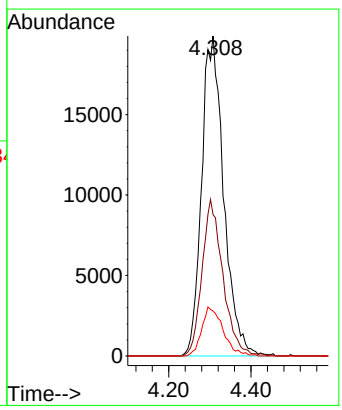


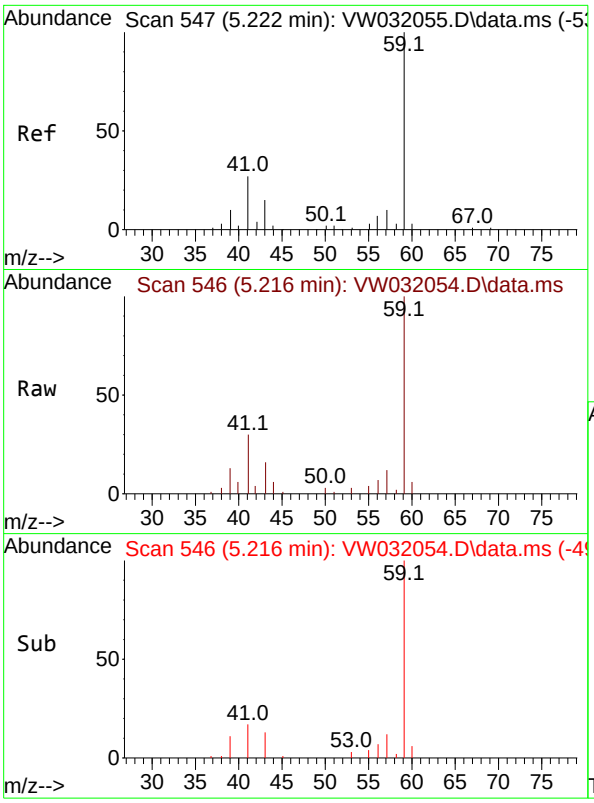


#10
Methyl Iodide
Concen: 21.419 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:142 Resp: 74197

Ion	Ratio	Lower	Upper
142	100		
127	46.1	36.6	55.0
141	14.8	12.1	18.1



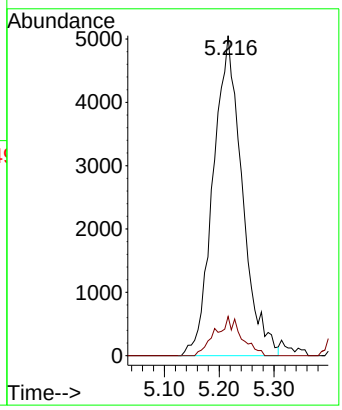


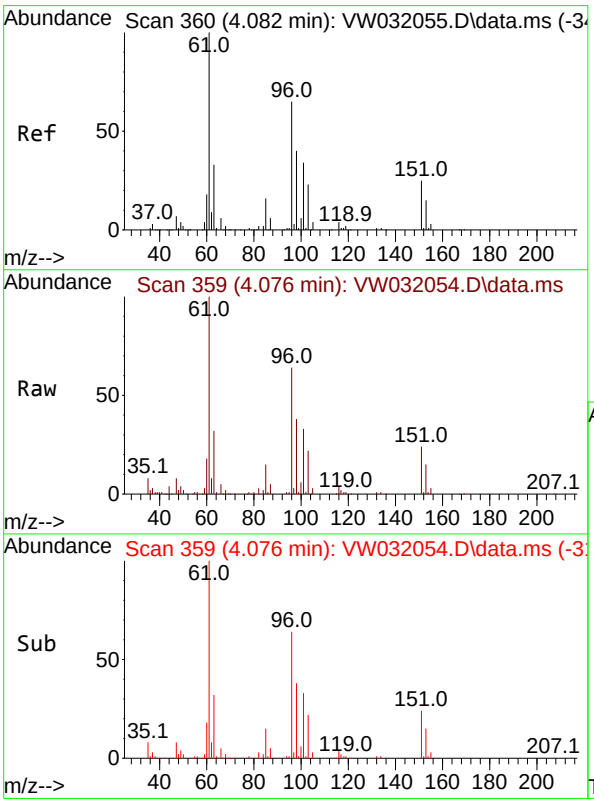
#11
Tert butyl alcohol
Concen: 89.237 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 18539

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

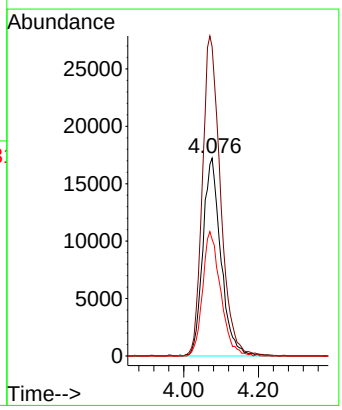


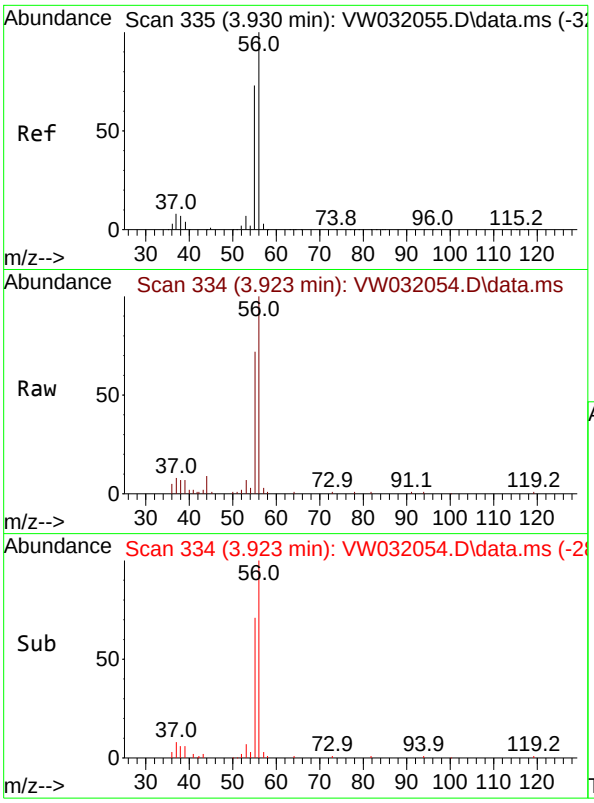


#12
1,1-Dichloroethene
Concen: 21.419 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 57624

Ion	Ratio	Lower	Upper
96	100		
61	156.3	123.4	185.2
98	59.0	49.5	74.3



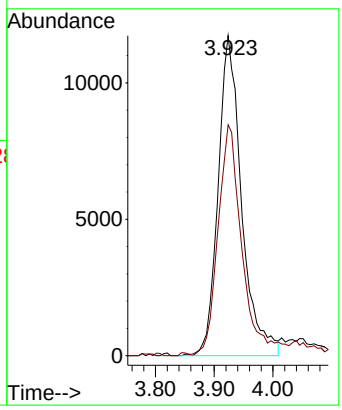


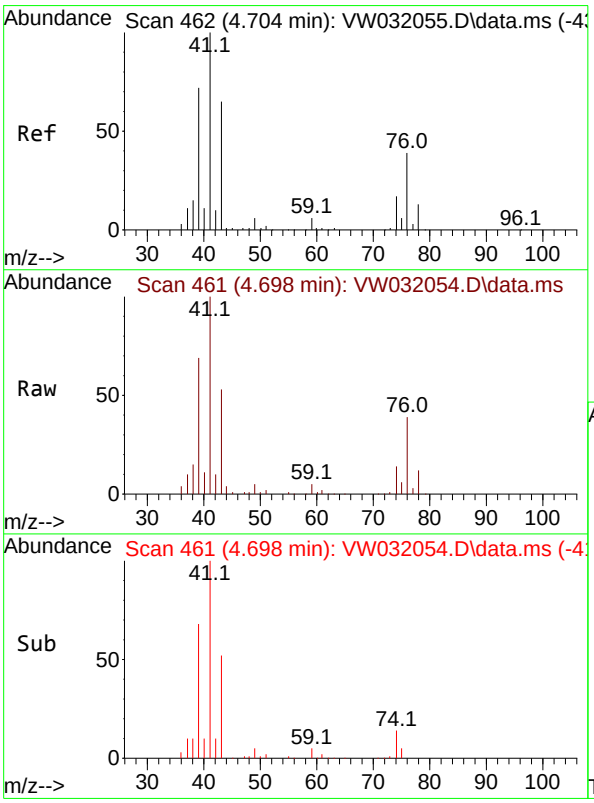
#13
Acrolein
Concen: 98.218 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 32512

Ion	Ratio	Lower	Upper
56	100		
55	72.7	55.4	83.2

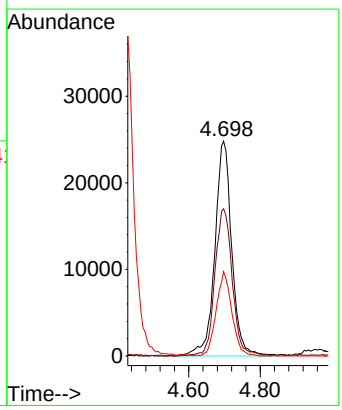


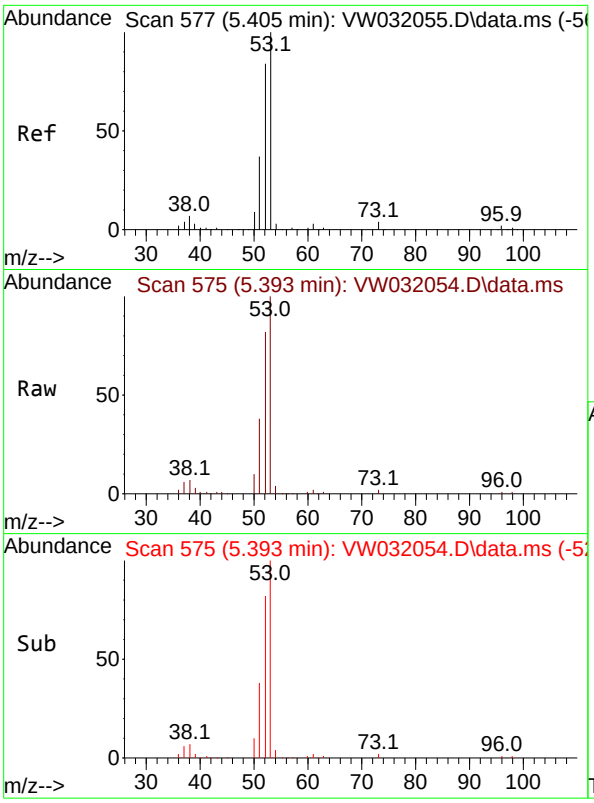


#14
Allyl chloride
Concen: 20.804 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 81458

Ion	Ratio	Lower	Upper
41	100		
39	69.3	54.5	81.7
76	36.3	29.3	43.9



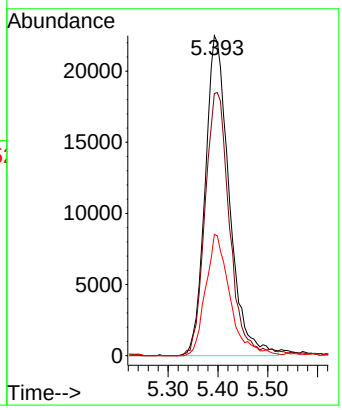


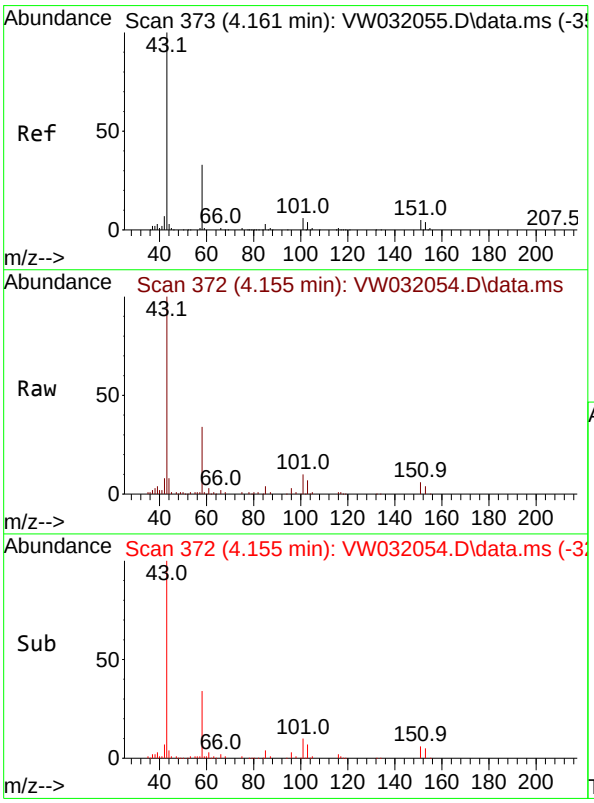
#15
Acrylonitrile
Concen: 93.190 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 75311

Ion	Ratio	Lower	Upper
53	100		
52	84.2	66.1	99.1
51	38.4	29.2	43.8

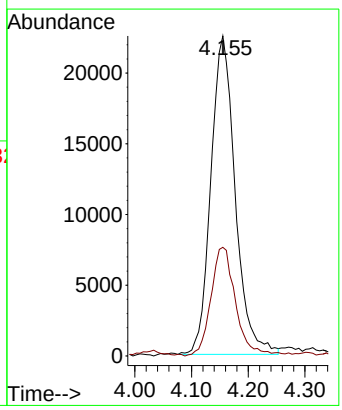


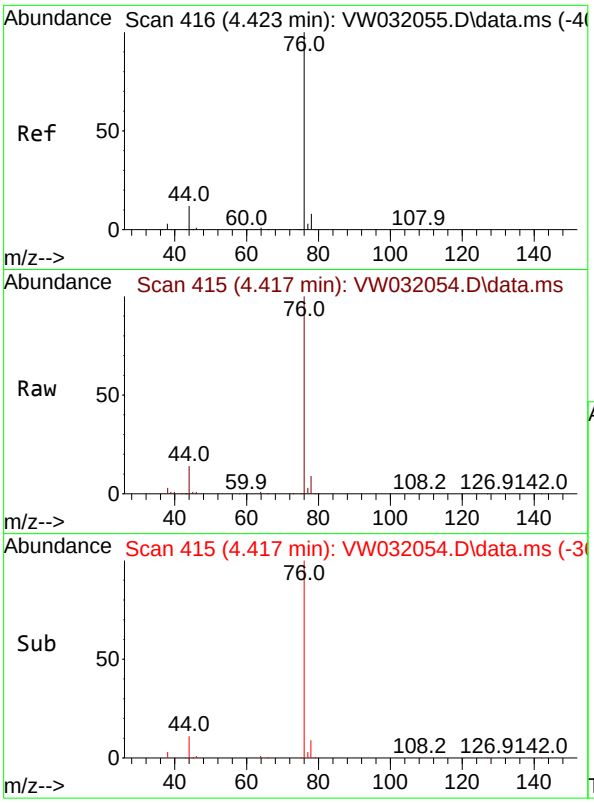


#16
Acetone
Concen: 90.379 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 67134

Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.6	39.8



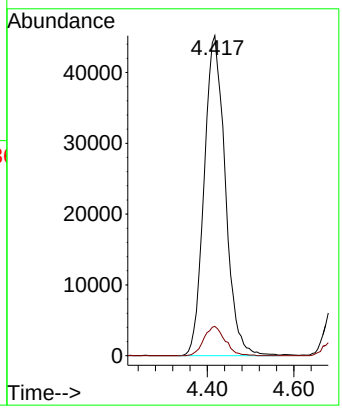


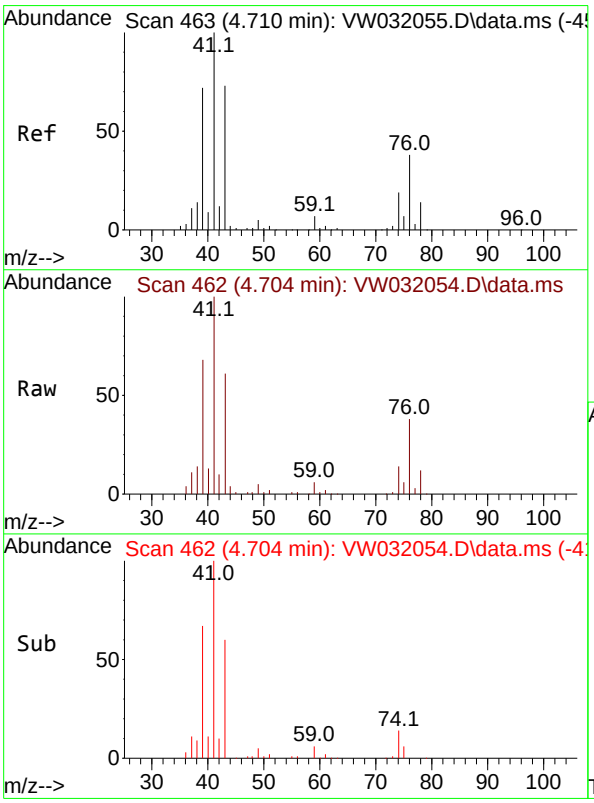
#17
Carbon Disulfide
Concen: 21.222 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 153247

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	9.6

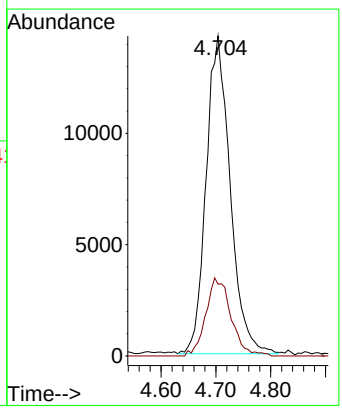


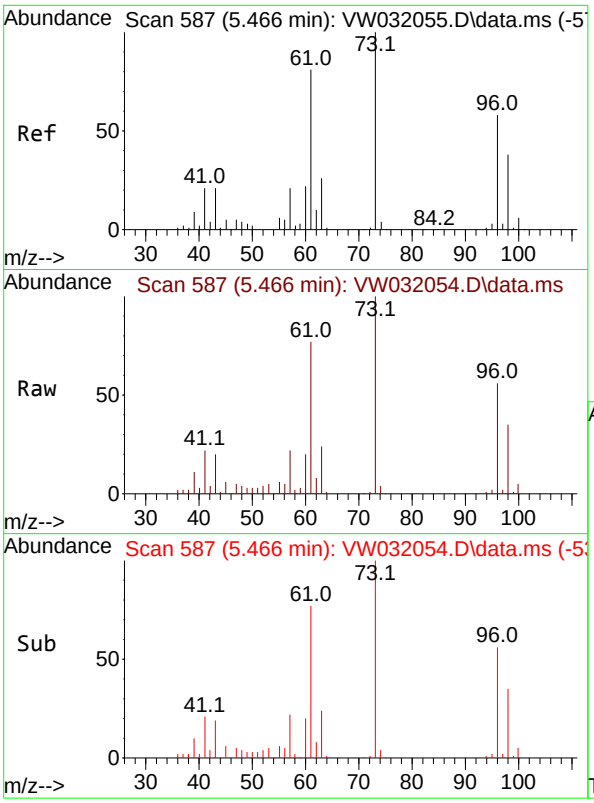


#18
Methyl Acetate
Concen: 18.522 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 43536

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0



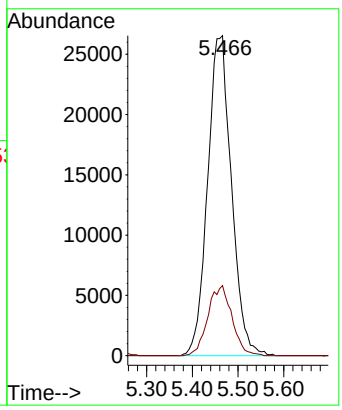


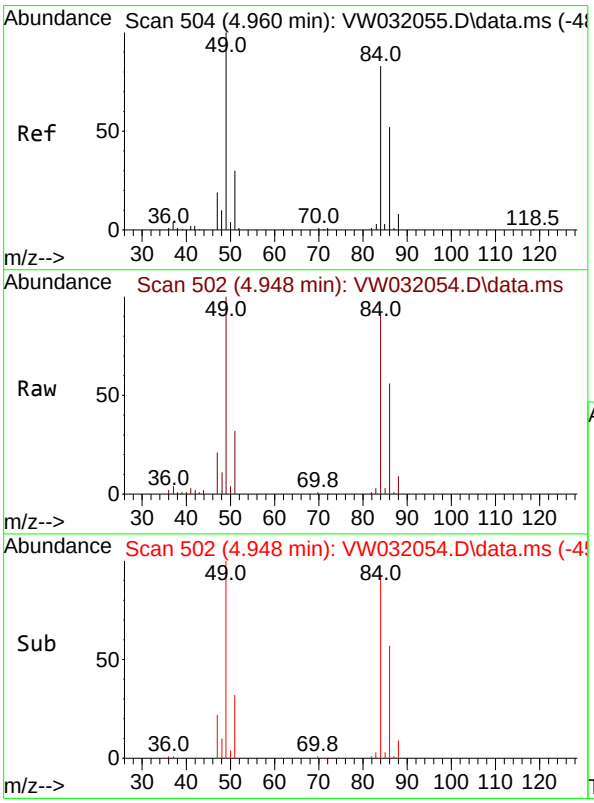
#19
Methyl tert-butyl Ether
Concen: 20.306 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 96253

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.2	25.8

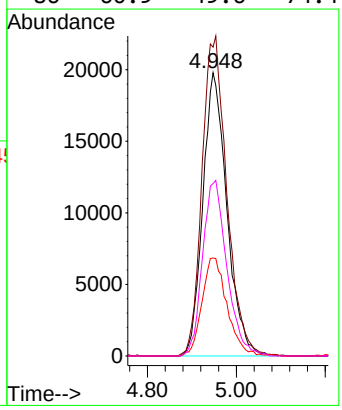


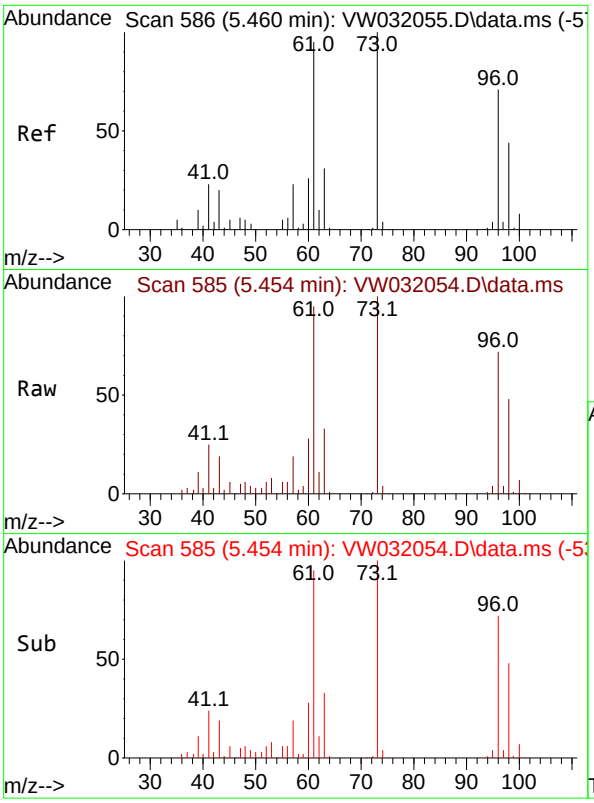


#20
Methylene Chloride
Concen: 21.706 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 84 Resp: 74547

Ion	Ratio	Lower	Upper
84	100		
49	109.1	95.9	143.9
51	34.6	28.6	43.0
86	60.9	49.6	74.4



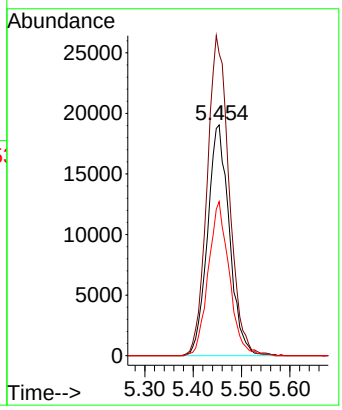


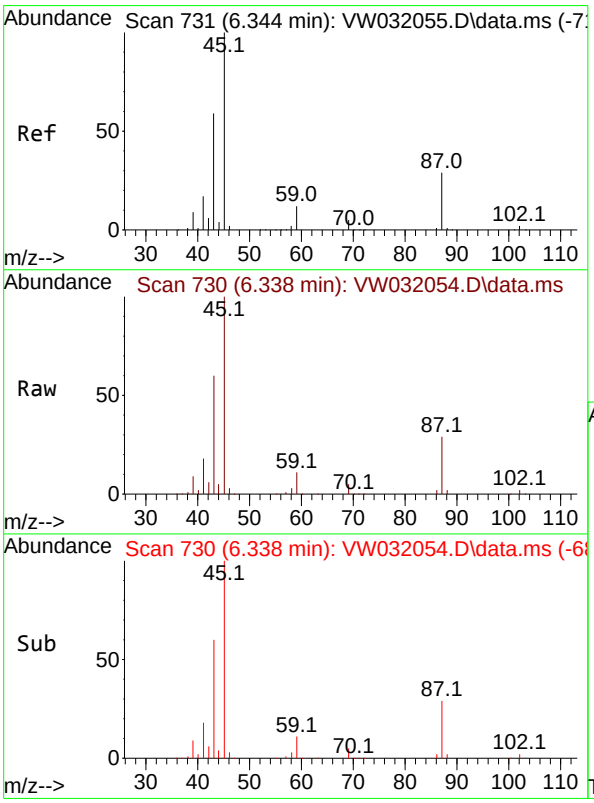
#21
trans-1,2-Dichloroethene
Concen: 20.917 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 59717

Ion	Ratio	Lower	Upper
96	100		
61	131.0	106.8	160.2
98	66.8	49.6	74.4

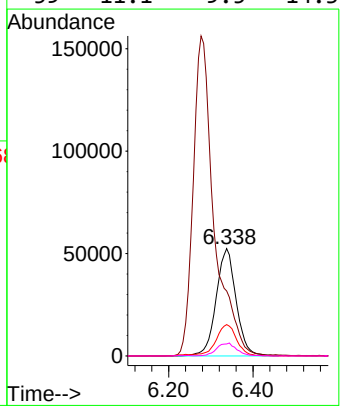


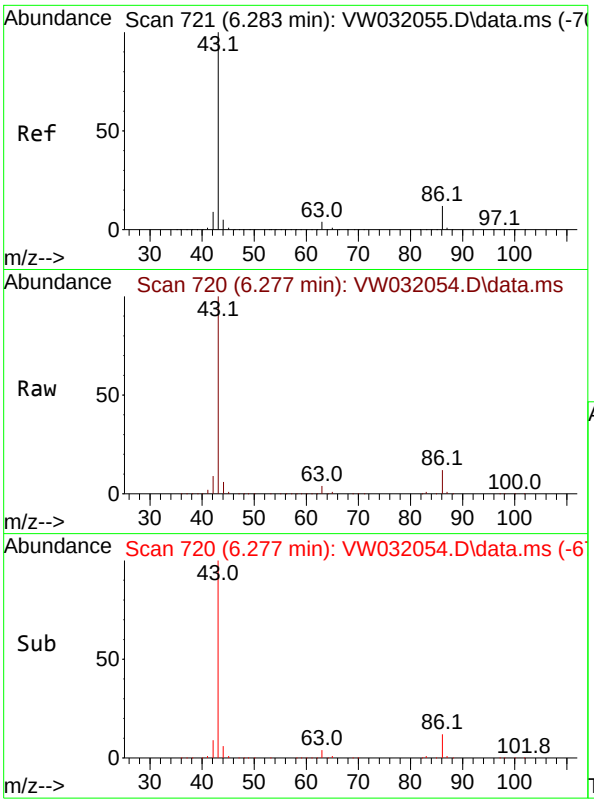


#22
Diisopropyl ether
Concen: 20.846 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 45 Resp: 172071

Ion	Ratio	Lower	Upper
45	100		
43	59.6	47.0	70.4
87	29.2	23.8	35.8
59	11.1	9.5	14.3



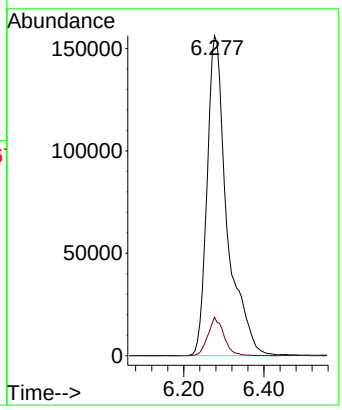


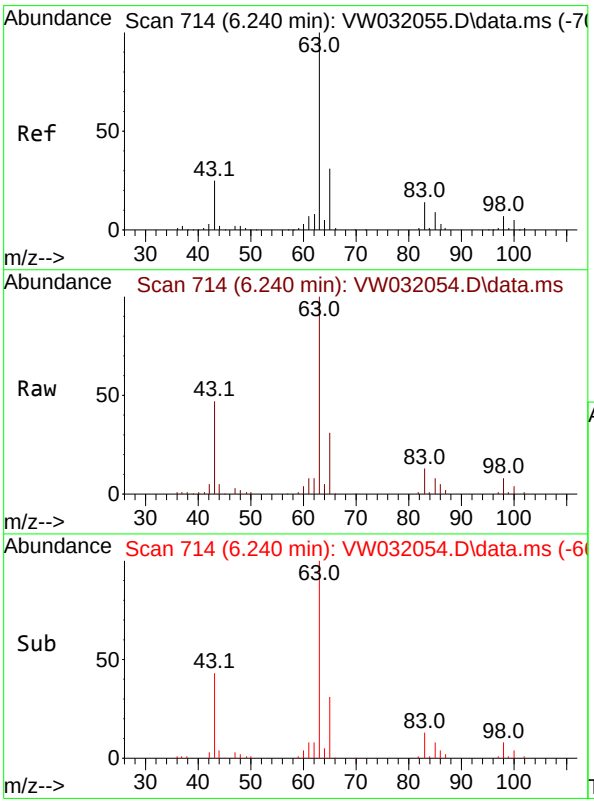
#23
Vinyl Acetate
Concen: 99.617 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 539862

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.4	14.0

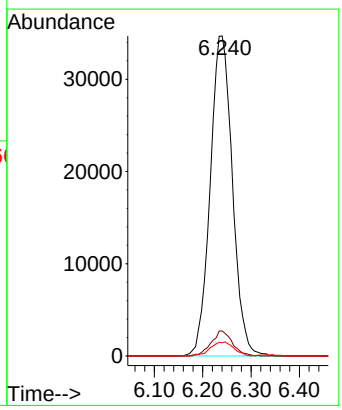


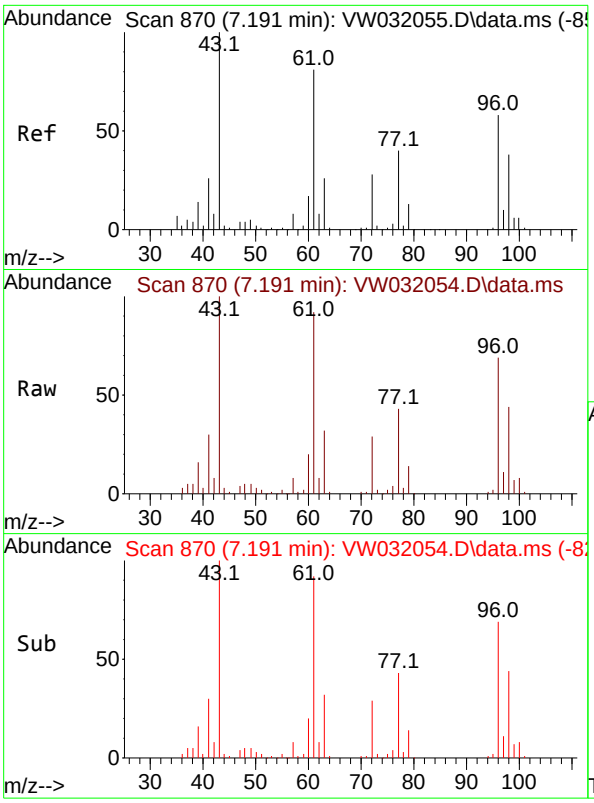


#24
1,1-Dichloroethane
Concen: 21.016 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 110835

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.7	11.1
100	4.1	2.5	7.4



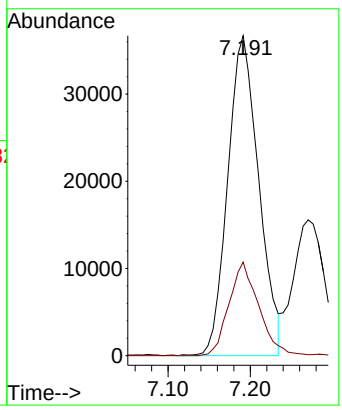


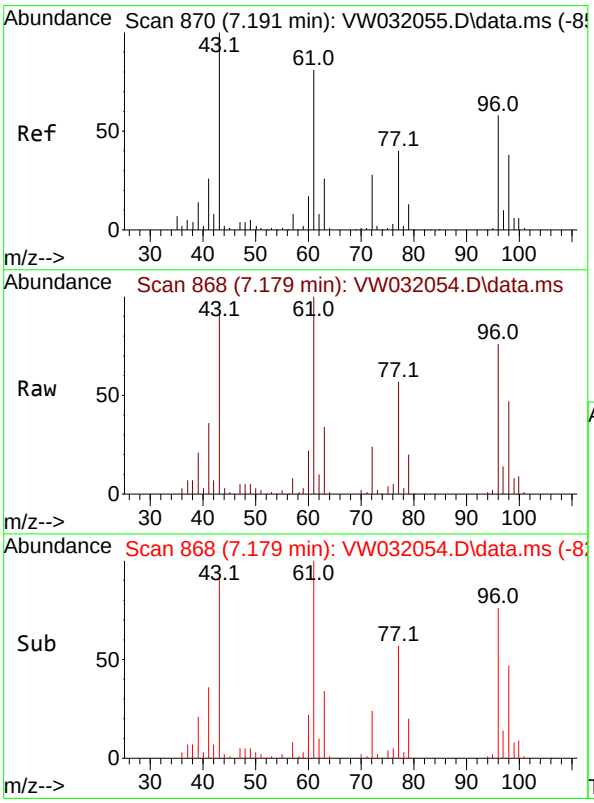
#25
2-Butanone
Concen: 91.114 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 96191

Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.3	33.5

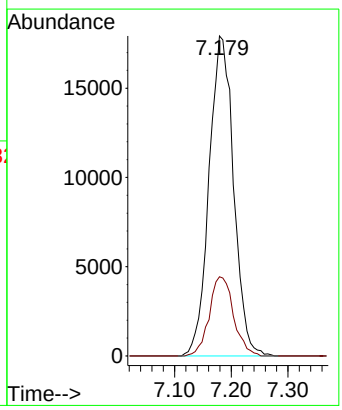


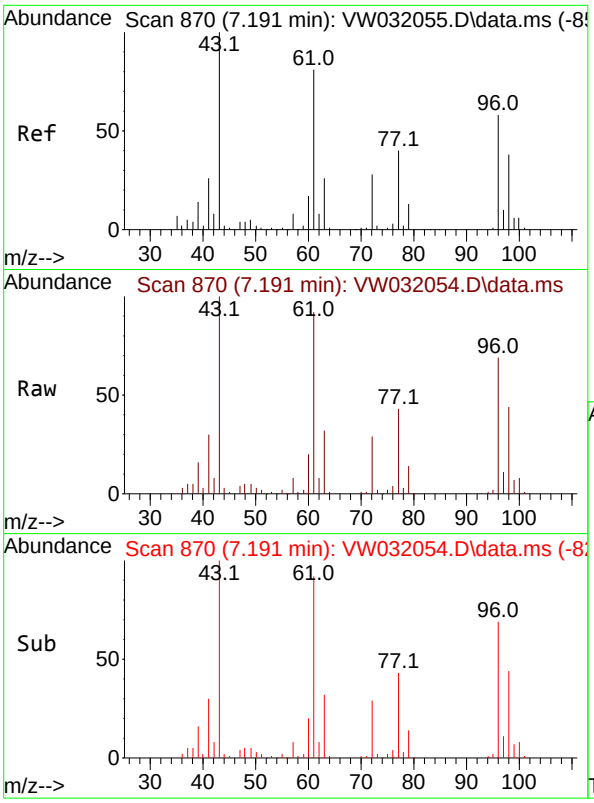


#26
2,2-Dichloropropane
Concen: 20.327 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 77 Resp: 53780

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9



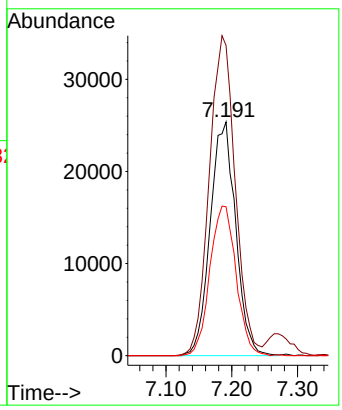


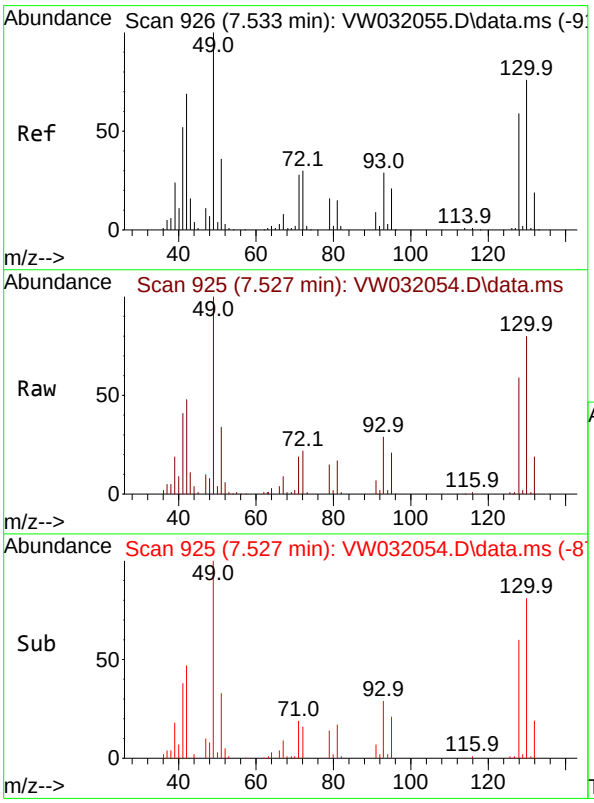
#27
cis-1,2-Dichloroethene
Concen: 20.540 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 68545

Ion	Ratio	Lower	Upper
96	100		
61	139.8	0.0	281.2
98	65.7	0.0	130.8

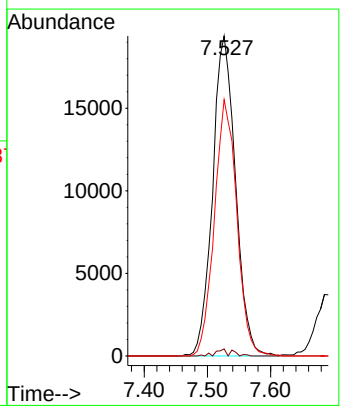


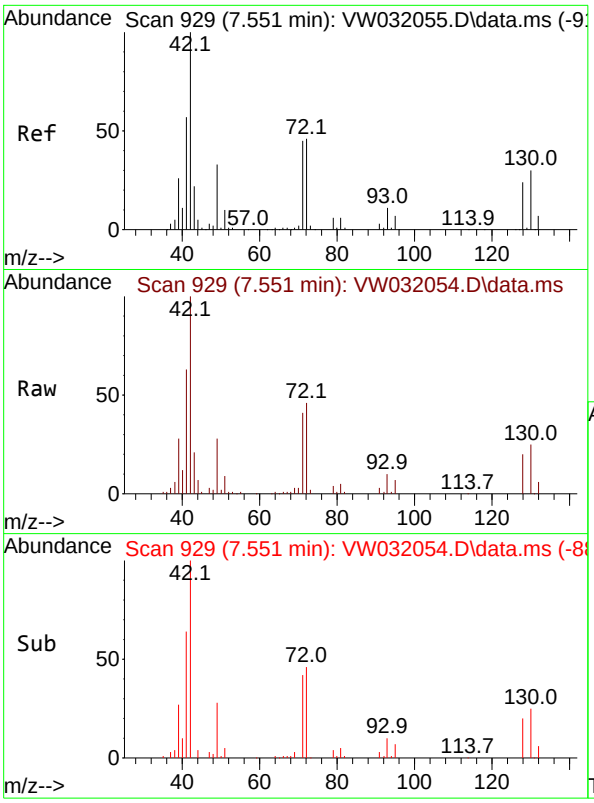


#28
Bromochloromethane
Concen: 20.298 ug/l
RT: 7.527 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 49 Resp: 48715

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	78.4	61.9	92.9



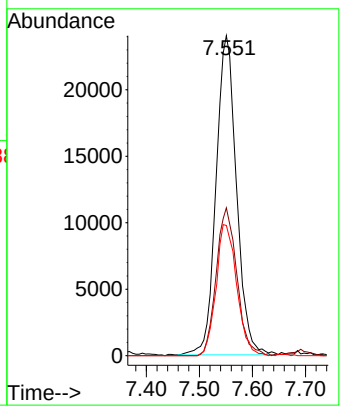


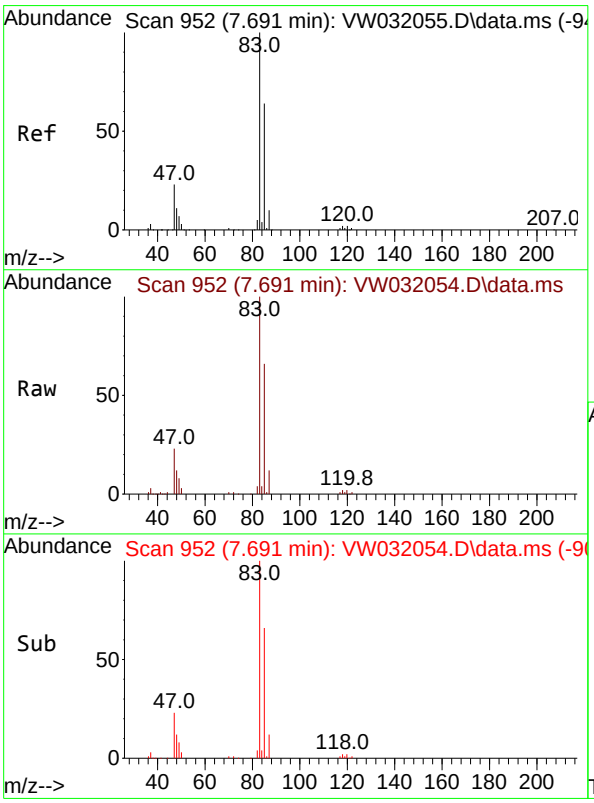
#29
Tetrahydrofuran
Concen: 92.379 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 64317

Ion	Ratio	Lower	Upper
42	100		
72	46.7	36.6	55.0
71	41.5	34.7	52.1

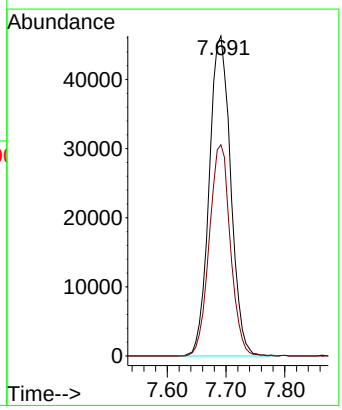


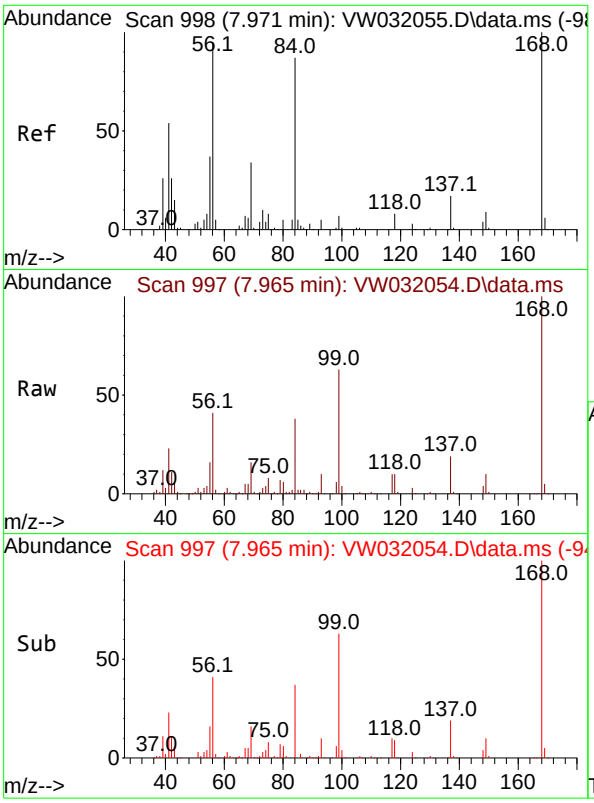


#30
Chloroform
Concen: 21.011 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 117474

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.4



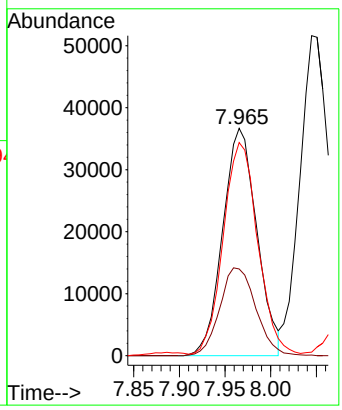


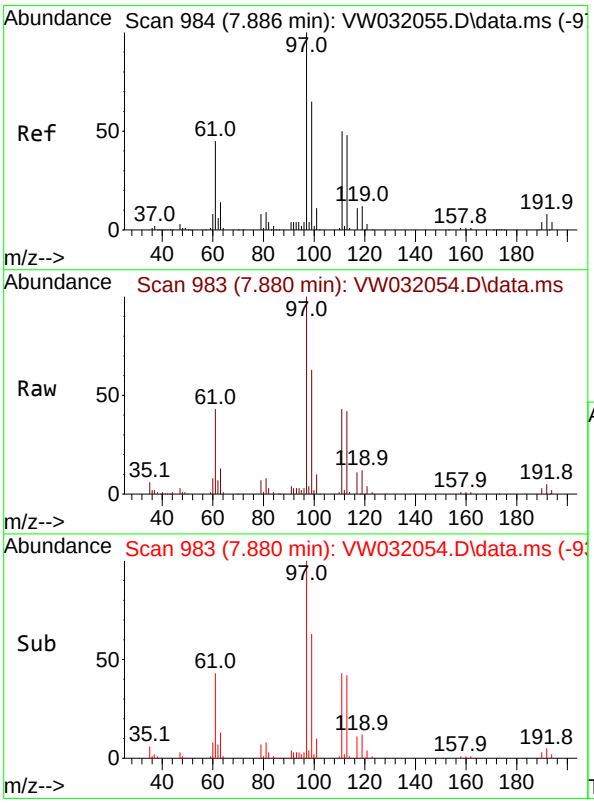
#31
Cyclohexane
Concen: 20.833 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 95253

Ion	Ratio	Lower	Upper
56	100		
69	38.2	28.6	42.8
84	92.4	73.0	109.4

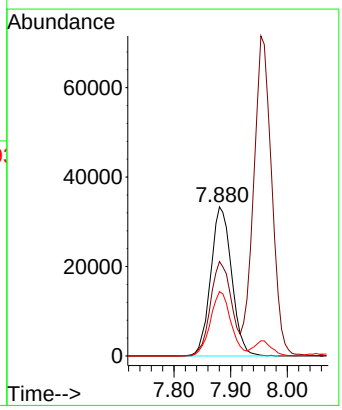


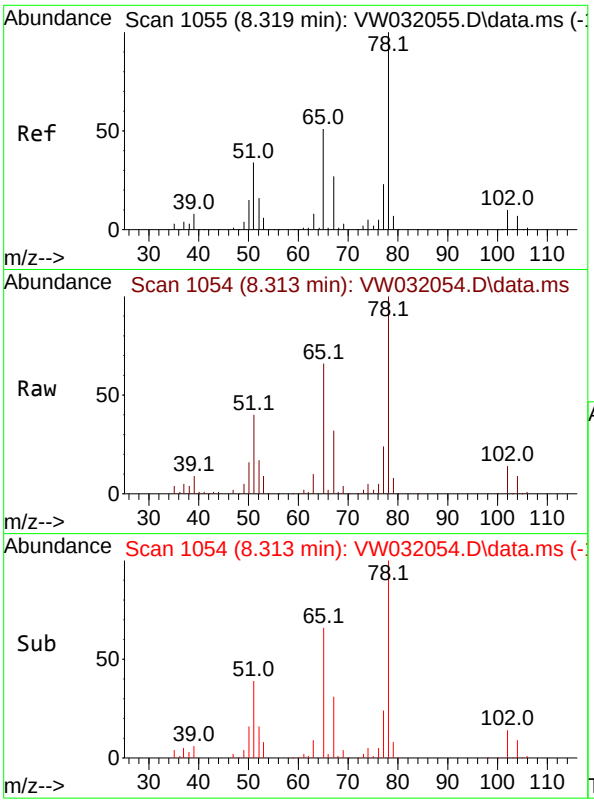


#32
1,1,1-Trichloroethane
Concen: 21.078 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 97 Resp: 85600

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.8	77.8
61	42.4	35.9	53.9



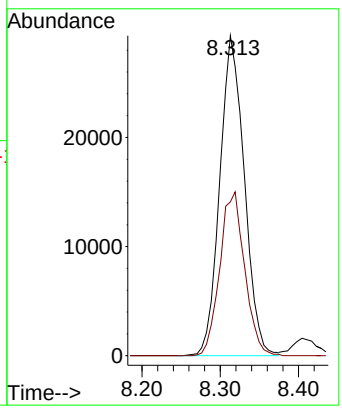


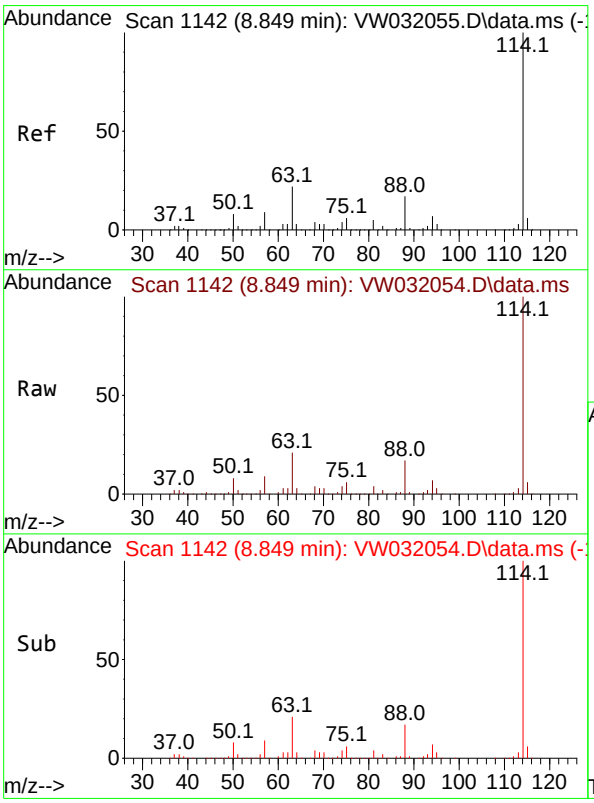
#33
1,2-Dichloroethane-d4
Concen: 19.904 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 63857

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	102.4

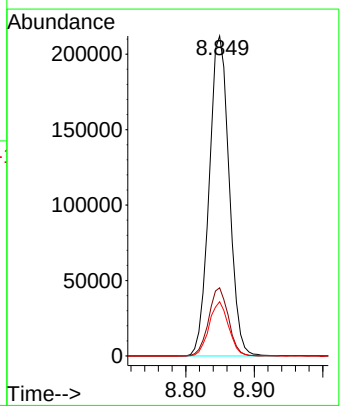


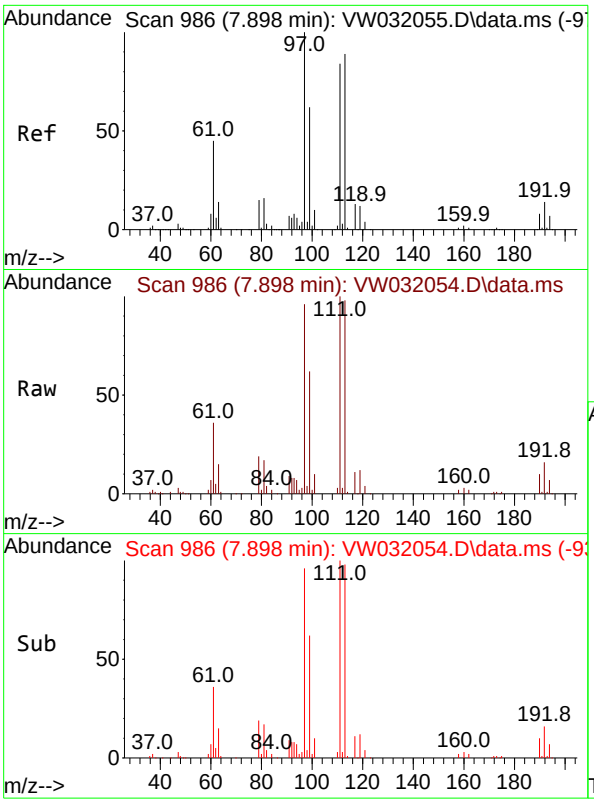


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:114 Resp: 428395

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	16.9	0.0	33.8



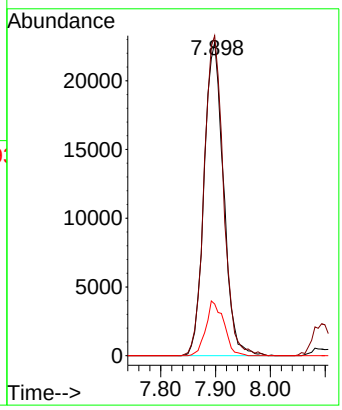


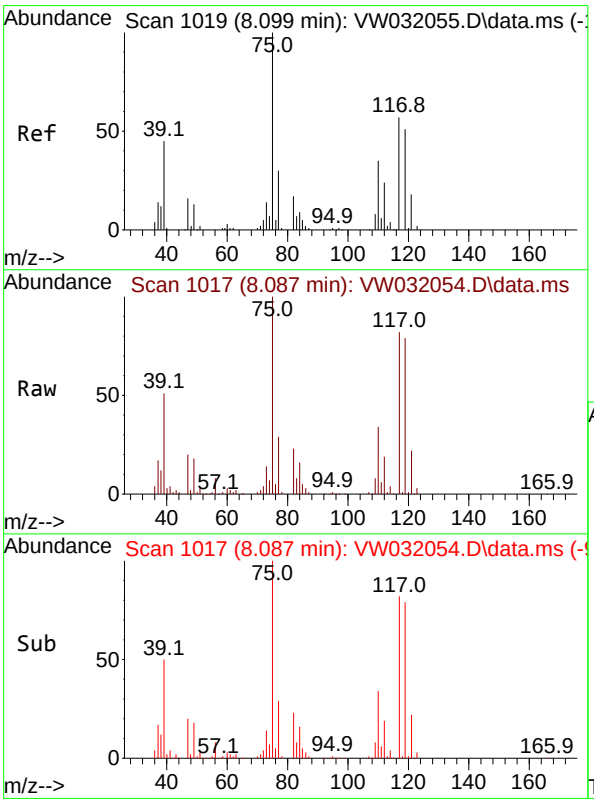
#35
Dibromofluoromethane
Concen: 20.158 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 55788

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.1	120.1
192	16.3	13.1	19.7

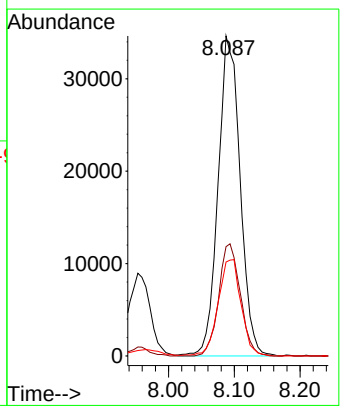


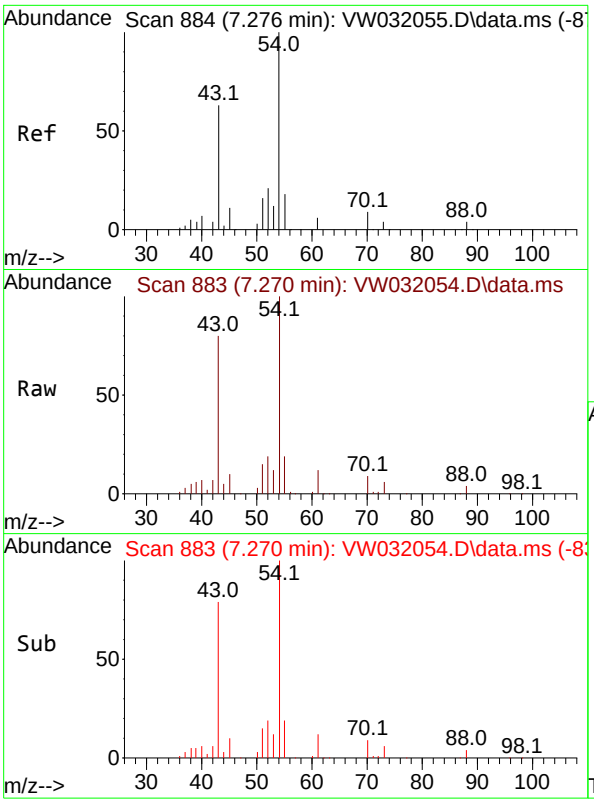


#36
1,1-Dichloropropene
Concen: 20.712 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 80811

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.4	52.2
77	31.4	24.7	37.1



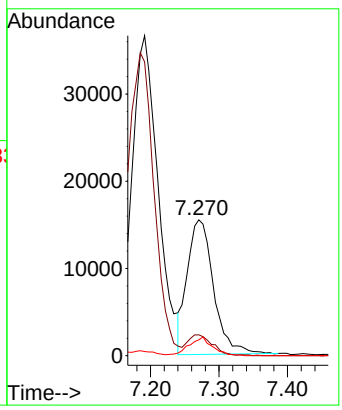


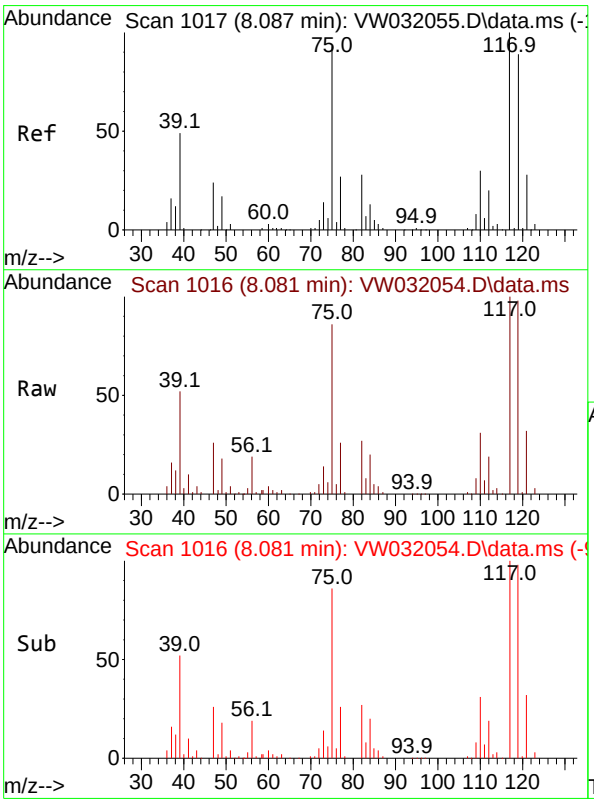
#37
Ethyl Acetate
Concen: 17.945 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 41235

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.8	17.6
70	12.3	9.4	14.0

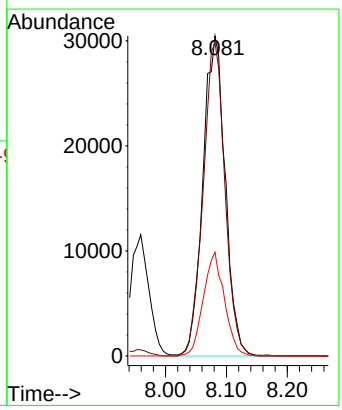


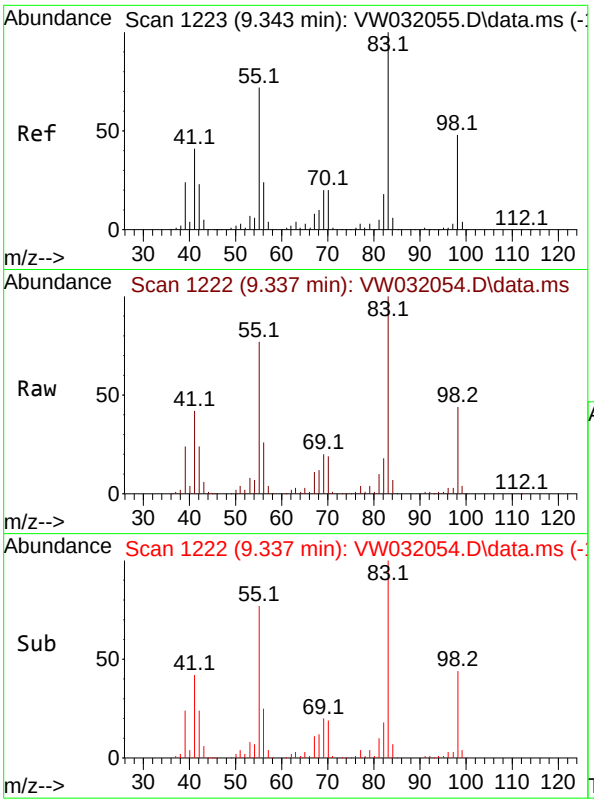


#38
Carbon Tetrachloride
Concen: 20.527 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 77289

Ion	Ratio	Lower	Upper
117	100		
119	97.8	71.4	107.2
121	32.4	22.3	33.5



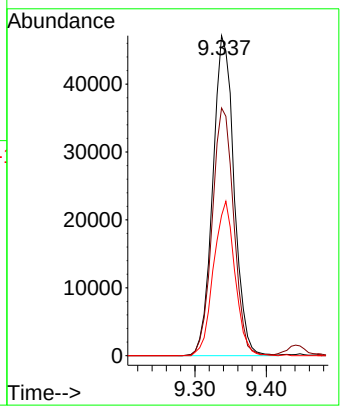


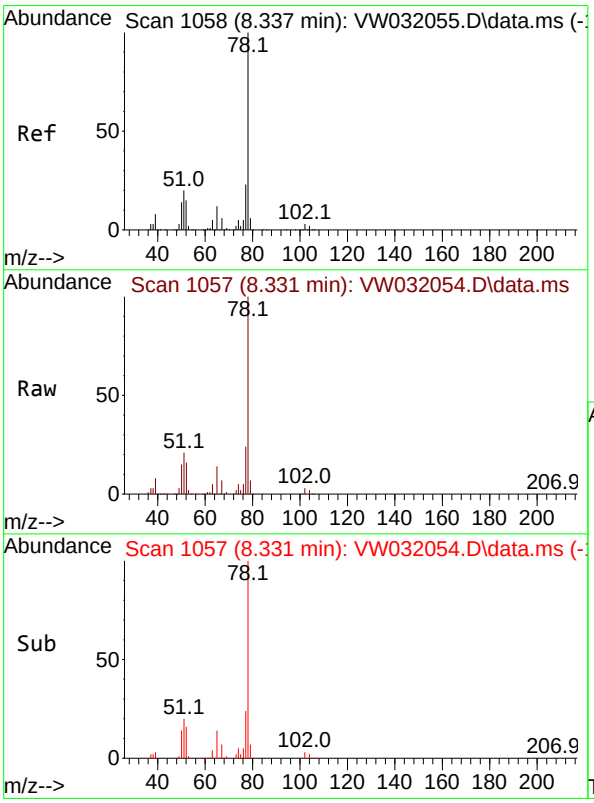
#39
Methylcyclohexane
Concen: 20.484 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 97412

Ion	Ratio	Lower	Upper
83	100		
55	77.4	57.9	86.9
98	43.8	38.3	57.5

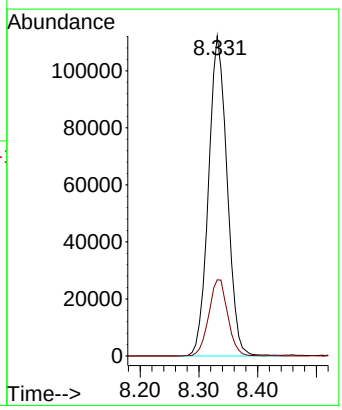


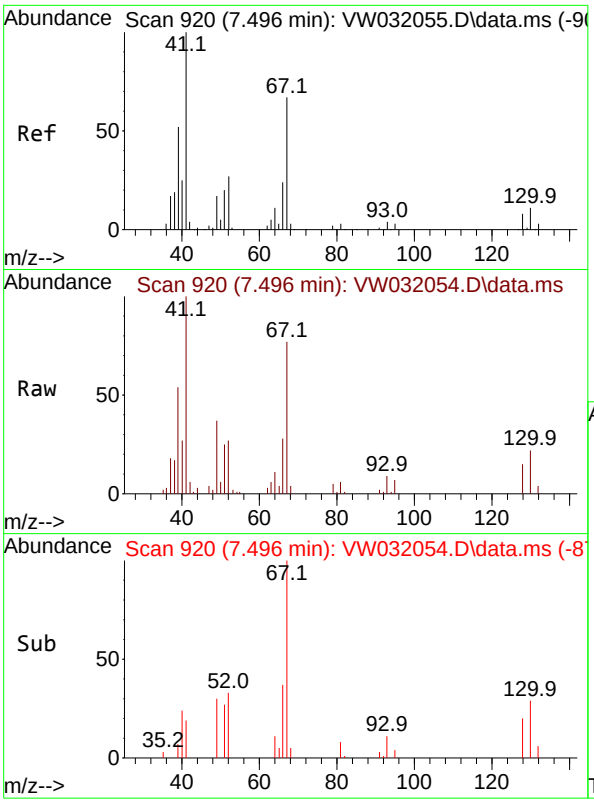


#40
Benzene
Concen: 20.333 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 78 Resp: 246590

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.4	27.6



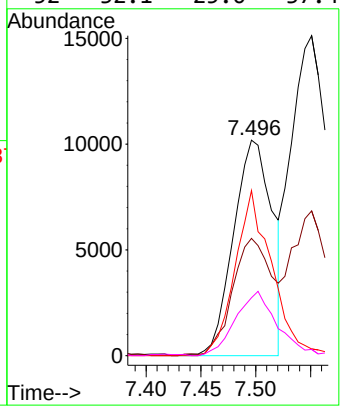


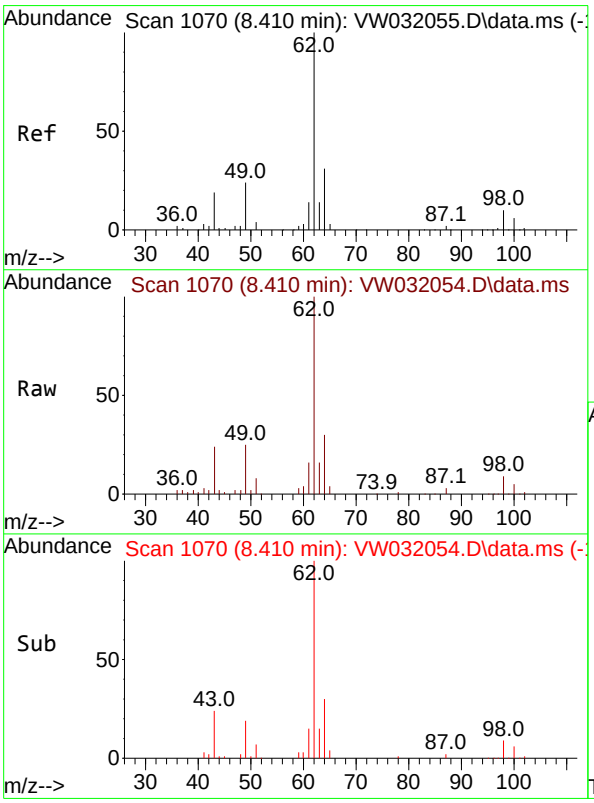
#41
Methacrylonitrile
Concen: 19.242 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 25075

Ion	Ratio	Lower	Upper
41	100		
39	55.4	42.6	63.8
67	73.2	61.0	91.4
52	32.1	25.0	37.4

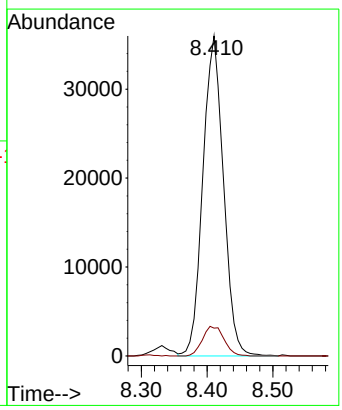


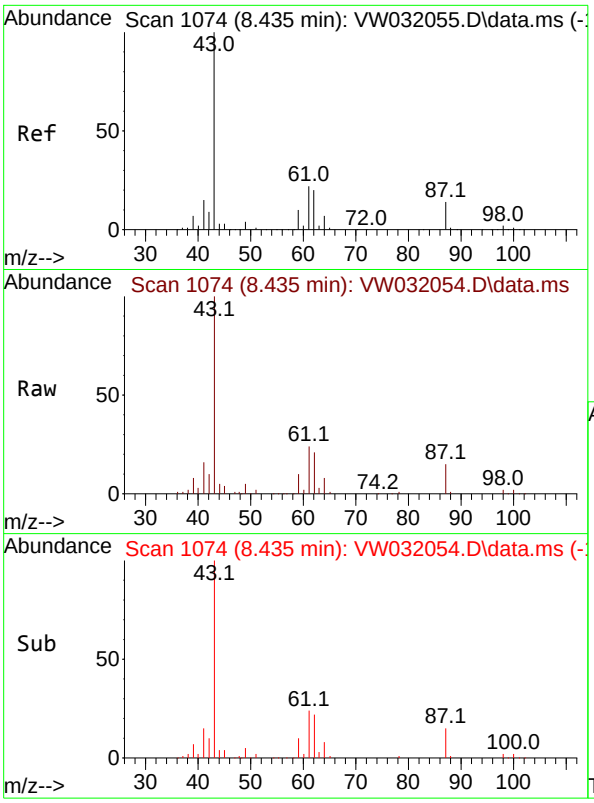


#42
1,2-Dichloroethane
Concen: 20.239 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 78543

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.8



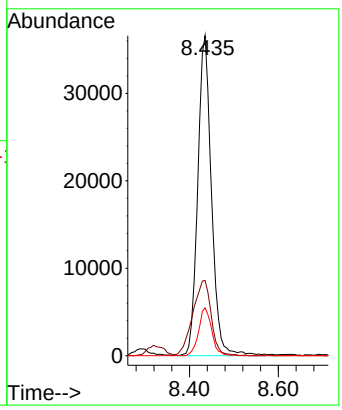


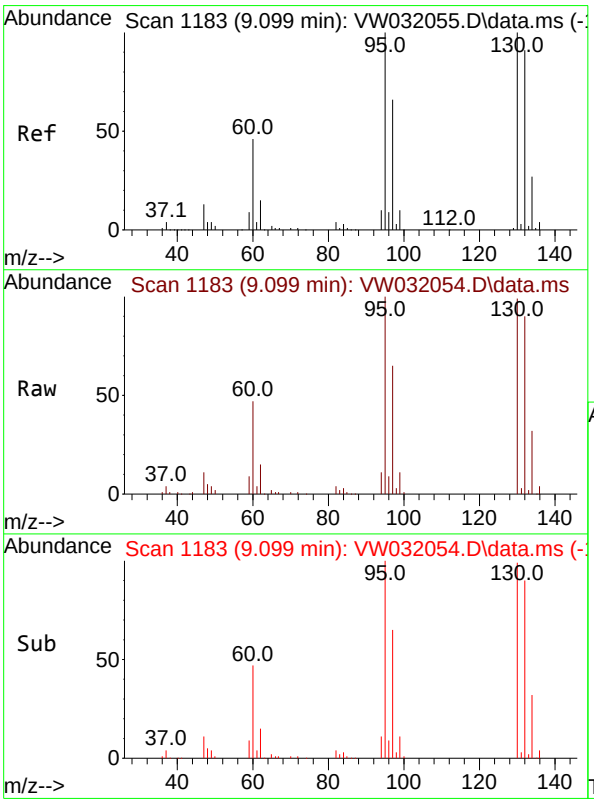
#43
Isopropyl Acetate
Concen: 18.660 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 78887

Ion	Ratio	Lower	Upper
43	100		
61	31.3	23.8	35.8
87	14.1	11.7	17.5

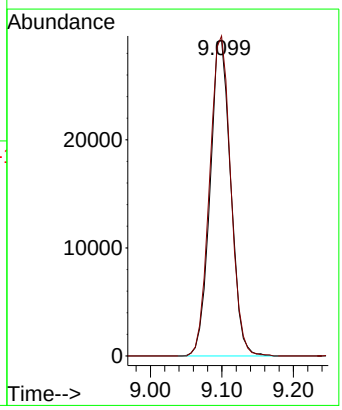


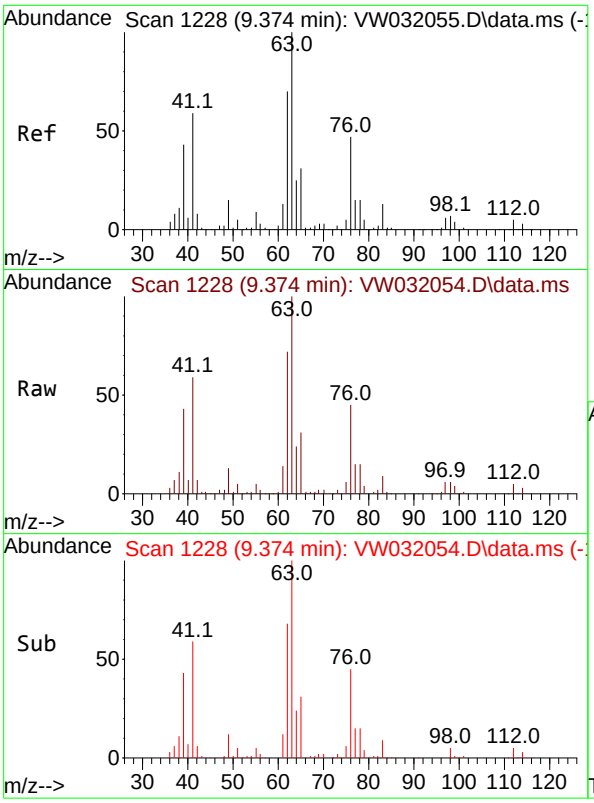


#44
Trichloroethene
Concen: 20.302 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:130 Resp: 58636

Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	200.6



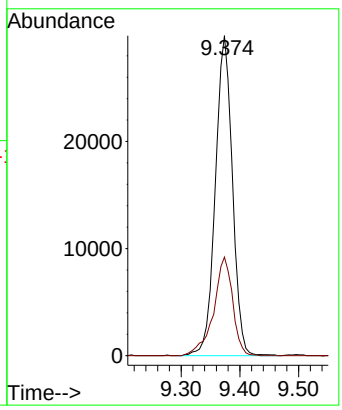


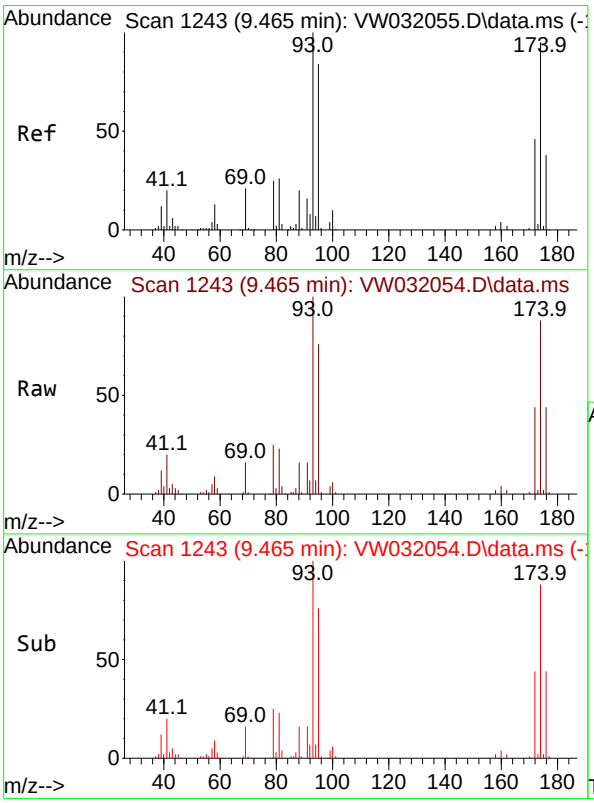
#45
1,2-Dichloropropane
Concen: 20.597 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 60346

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	36.8

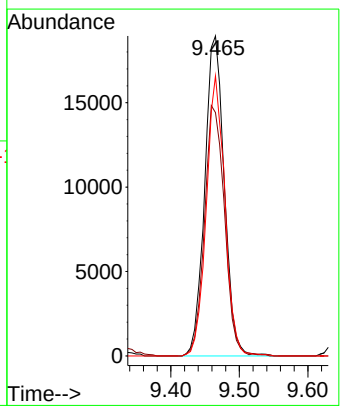


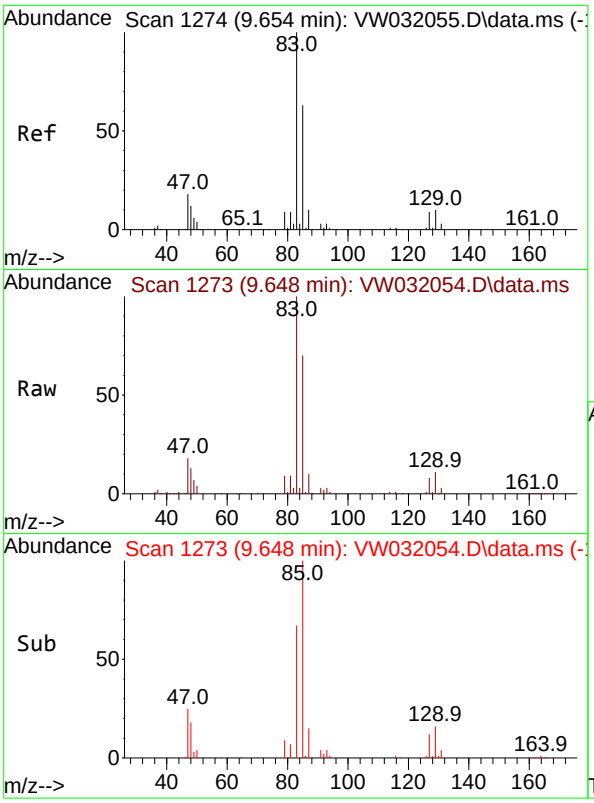


#46
Dibromomethane
Concen: 19.873 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 93 Resp: 37580

Ion	Ratio	Lower	Upper
93	100		
95	80.1	65.3	97.9
174	83.3	68.6	102.8



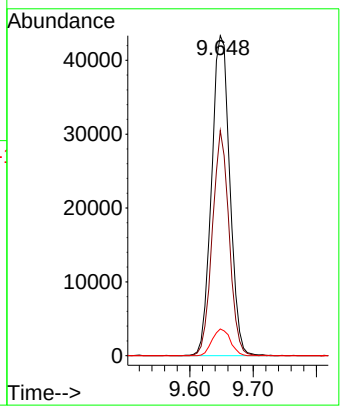


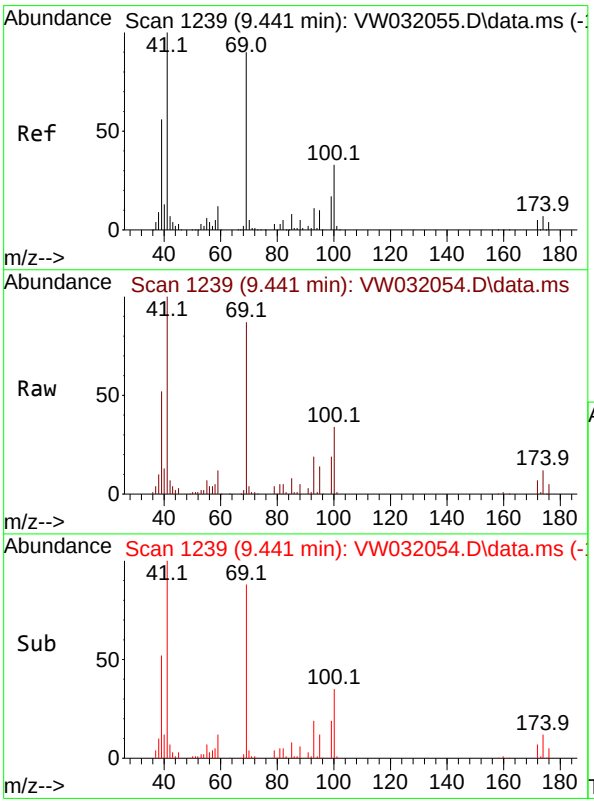
#47
Bromodichloromethane
Concen: 19.869 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 86577

Ion	Ratio	Lower	Upper
83	100		
85	70.4	50.6	75.8
127	8.3	6.9	10.3

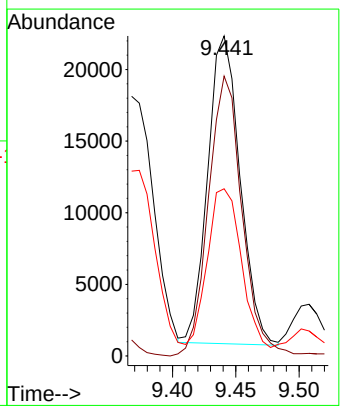


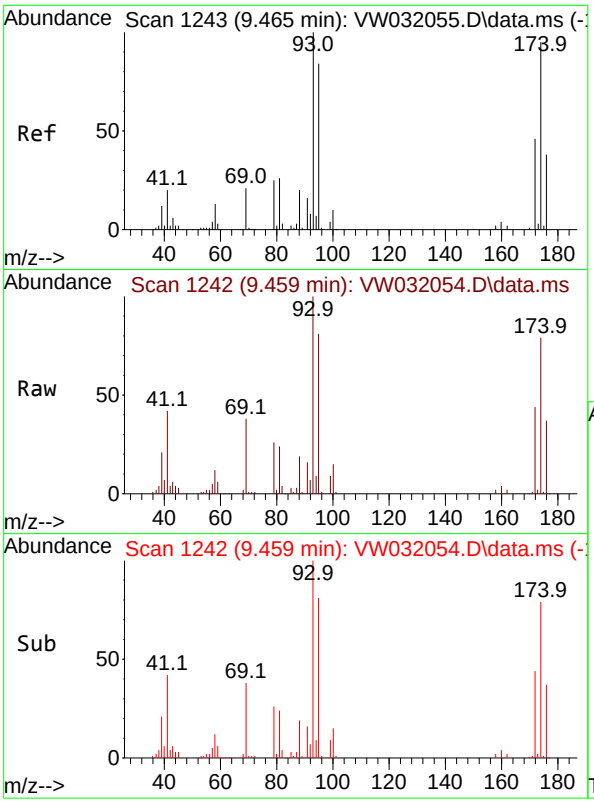


#48
Methyl methacrylate
Concen: 18.704 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 38175

Ion	Ratio	Lower	Upper
41	100		
69	94.6	73.0	109.6
39	53.7	45.0	67.4



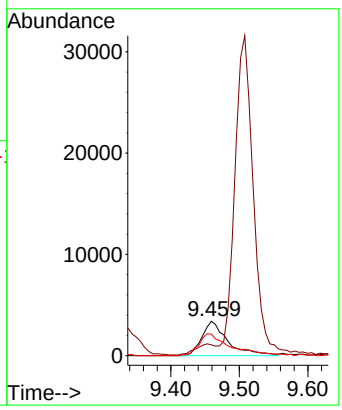


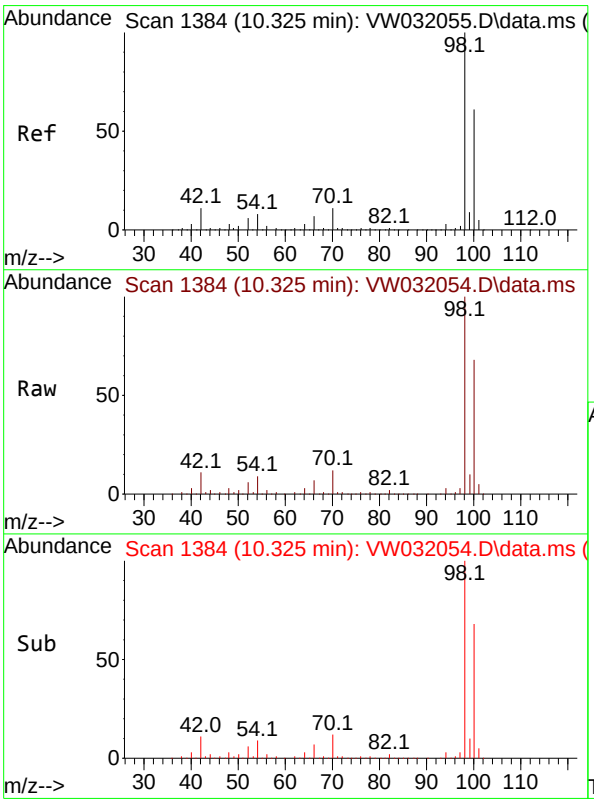
#49
1,4-Dioxane
Concen: 364.998 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 8924

Ion	Ratio	Lower	Upper
88	100		
43	24.7	20.6	30.8
58	78.5	60.4	90.6

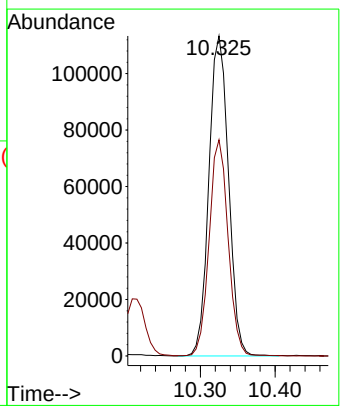


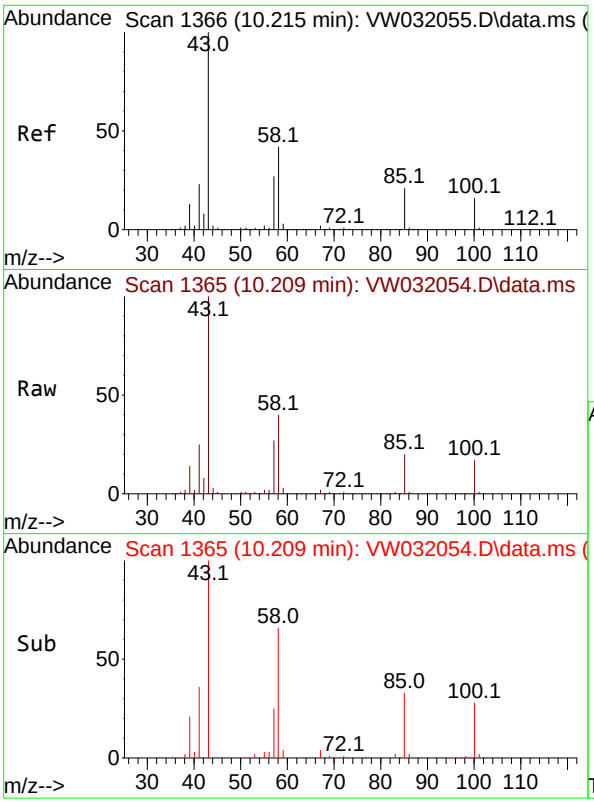


#50
Toluene-d8
Concen: 20.212 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 98 Resp: 206901

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.1	76.7



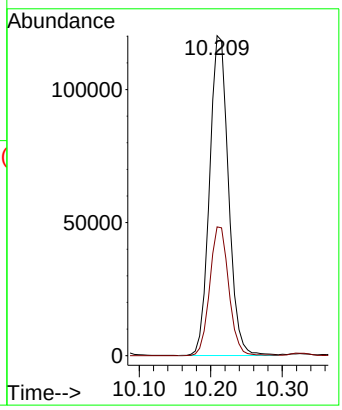


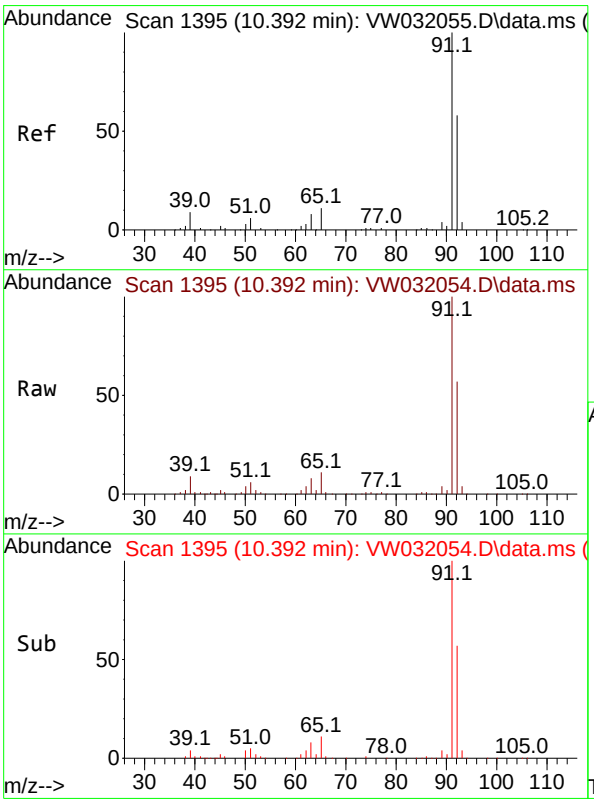
#51
4-Methyl-2-Pentanone
Concen: 92.472 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 220661

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.1	49.7

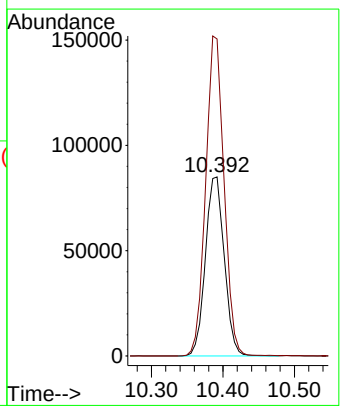


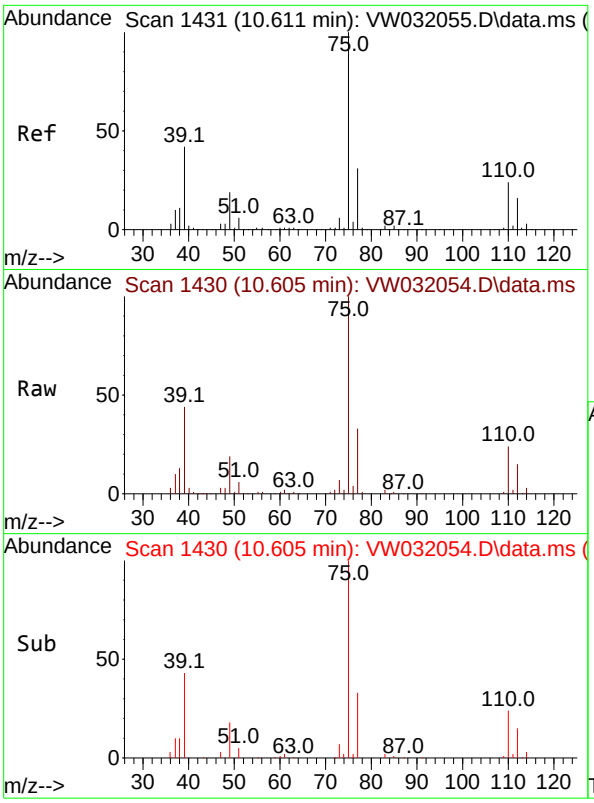


#52
Toluene
Concen: 20.418 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 92 Resp: 155974

Ion	Ratio	Lower	Upper
92	100		
91	173.6	136.3	204.5



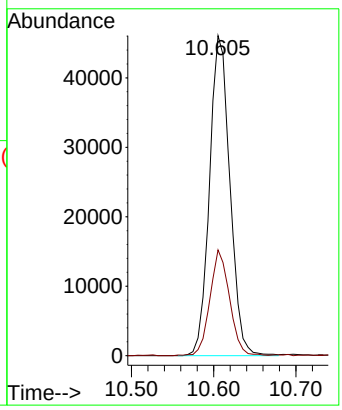


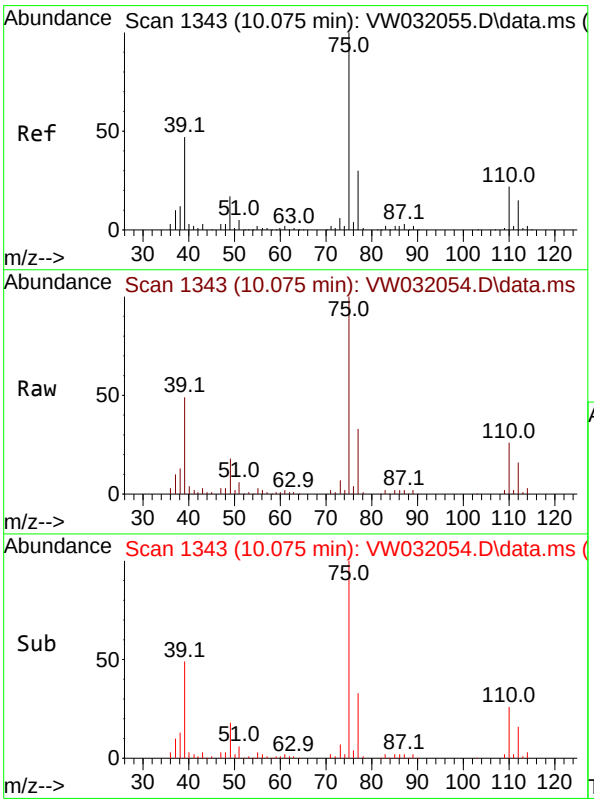
#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 79452

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.0	37.6

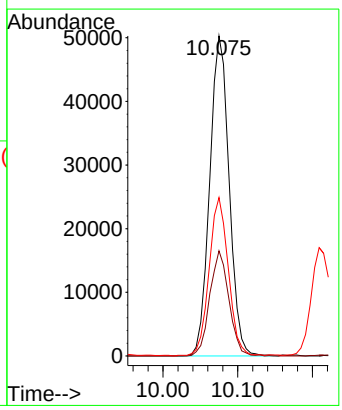


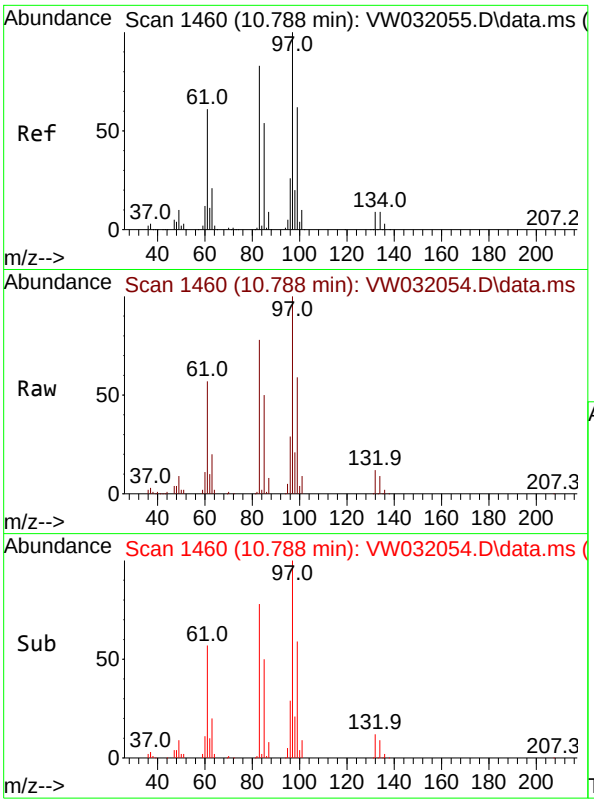


#54
cis-1,3-Dichloropropene
Concen: 19.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 90828

Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.0	36.0
39	49.3	37.8	56.8



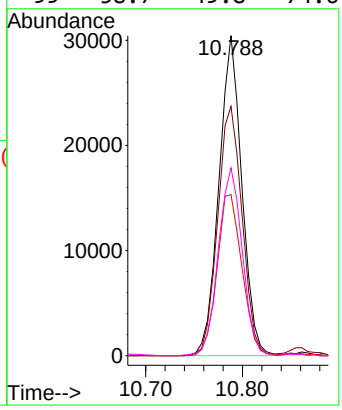


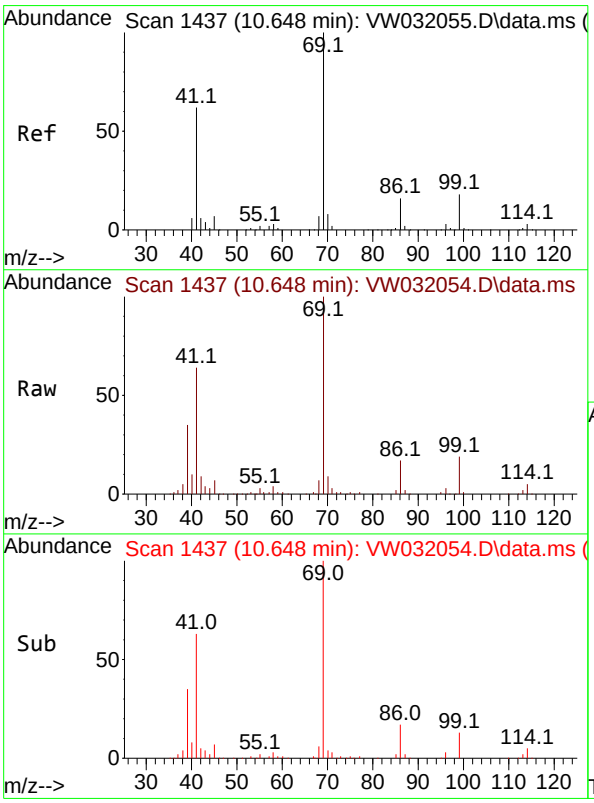
#55
1,1,2-Trichloroethane
Concen: 19.888 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 49974

Ion	Ratio	Lower	Upper
97	100		
83	77.9	66.4	99.6
85	50.3	43.1	64.7
99	58.7	49.8	74.6

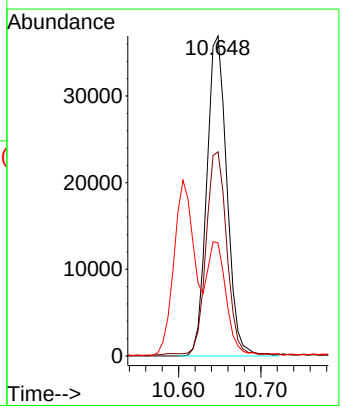


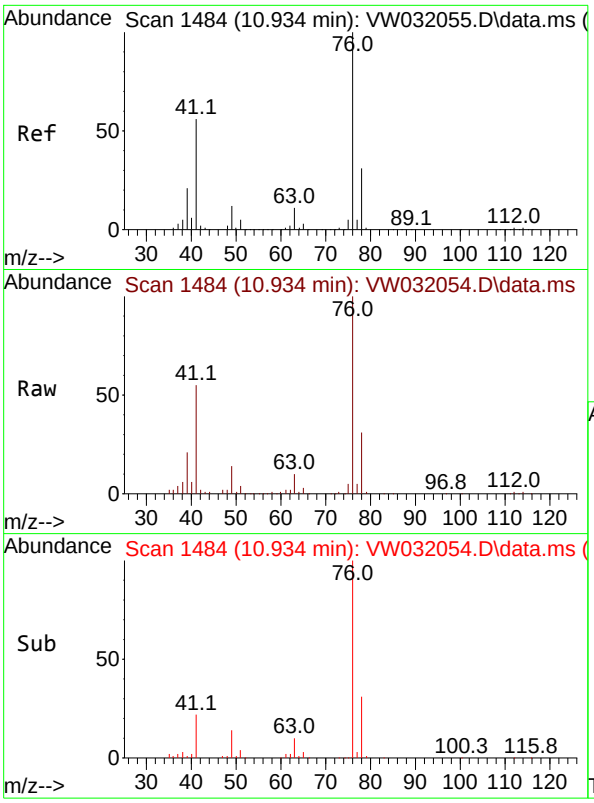


#56
Ethyl methacrylate
Concen: 18.645 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 69 Resp: 62694

Ion	Ratio	Lower	Upper
69	100		
41	67.2	51.2	76.8
39	31.8	25.4	38.0



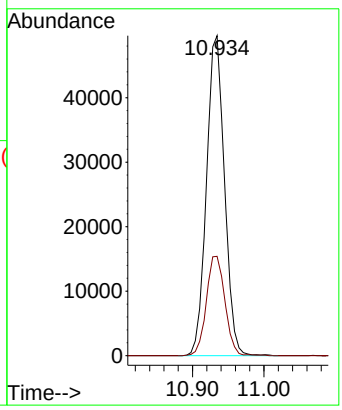


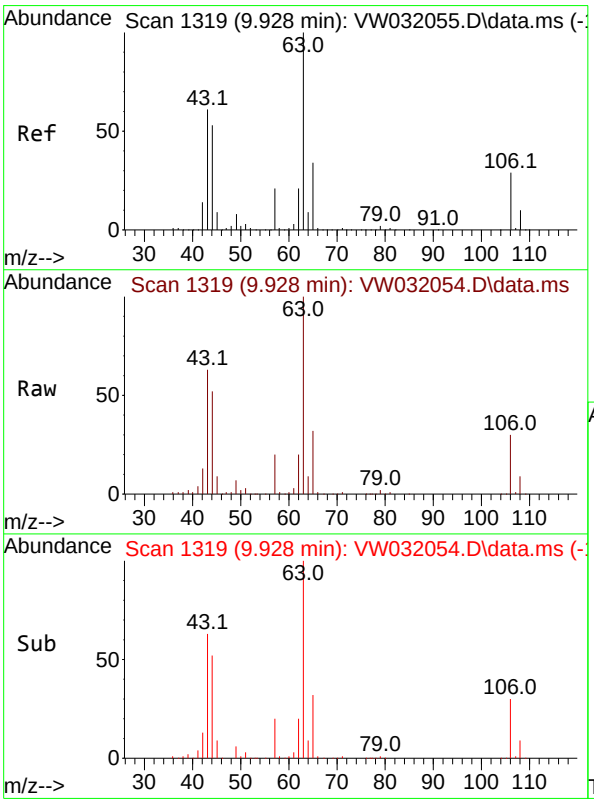
#57
1,3-Dichloropropane
Concen: 19.790 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 86678

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

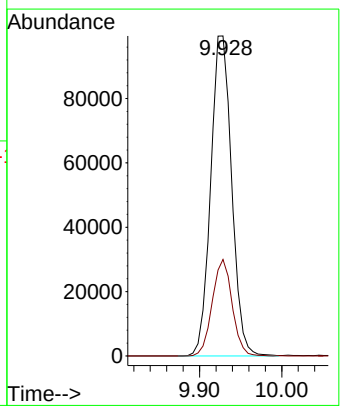


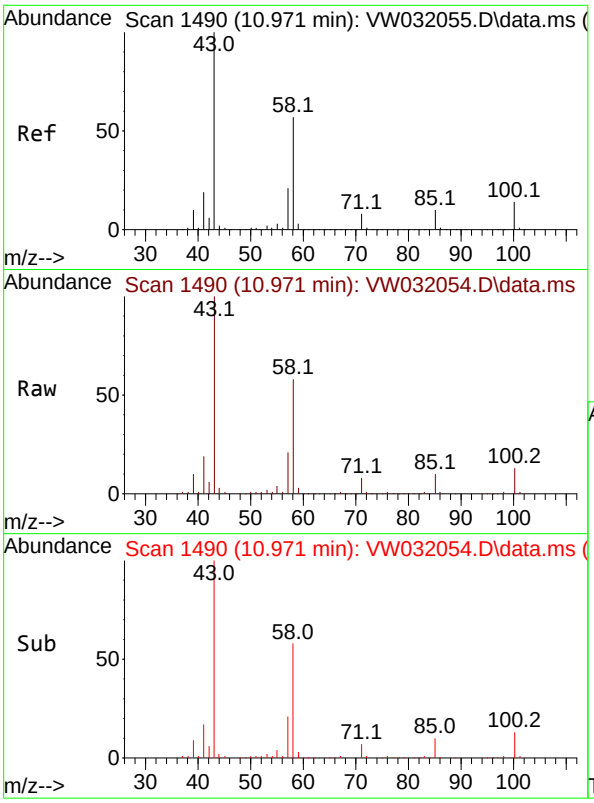


#58
2-Chloroethyl Vinyl ether
Concen: 94.809 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 176339

Ion	Ratio	Lower	Upper
63	100		
106	28.5	23.5	35.3



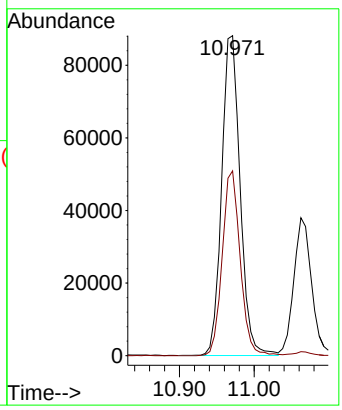


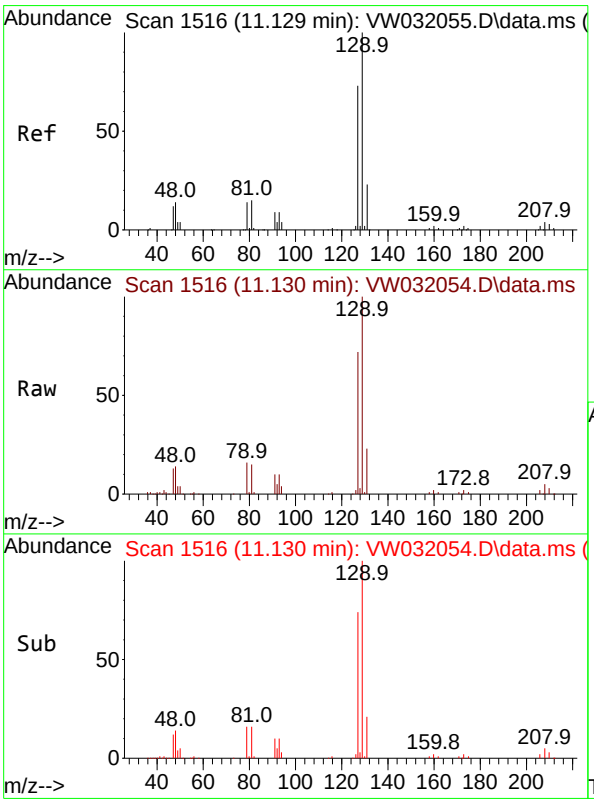
#59
2-Hexanone
Concen: 91.530 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 151264

Ion	Ratio	Lower	Upper
43	100		
58	56.4	28.3	85.0

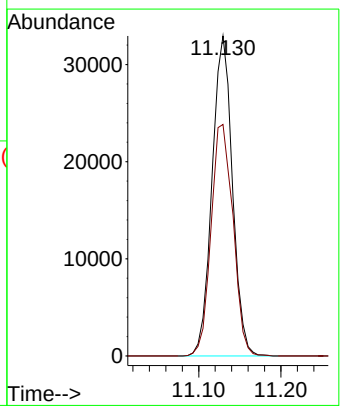


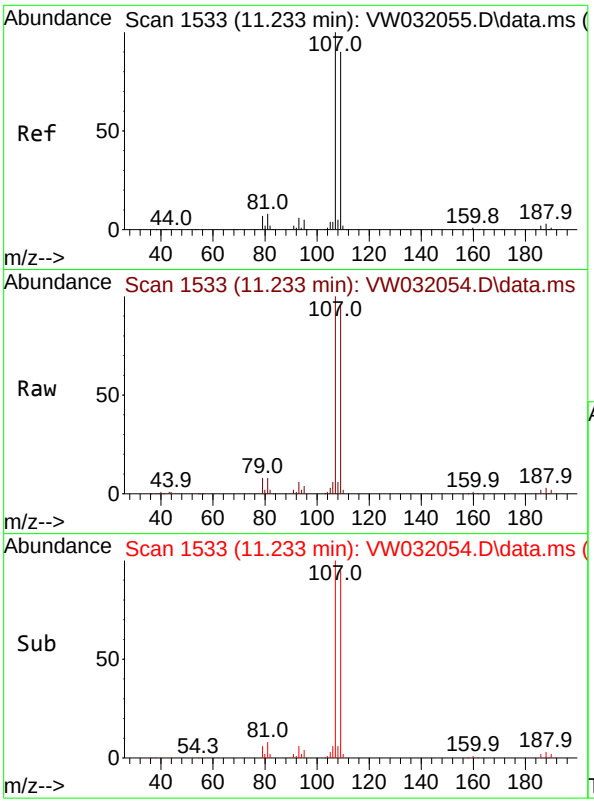


#60
Dibromochloromethane
Concen: 19.721 ug/l
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:129 Resp: 56607

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.0	116.9



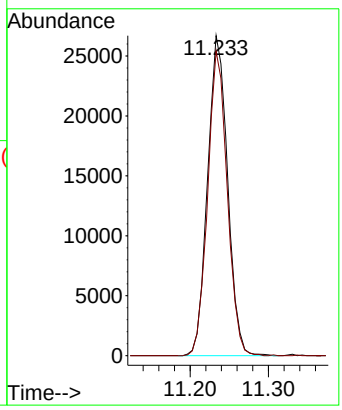


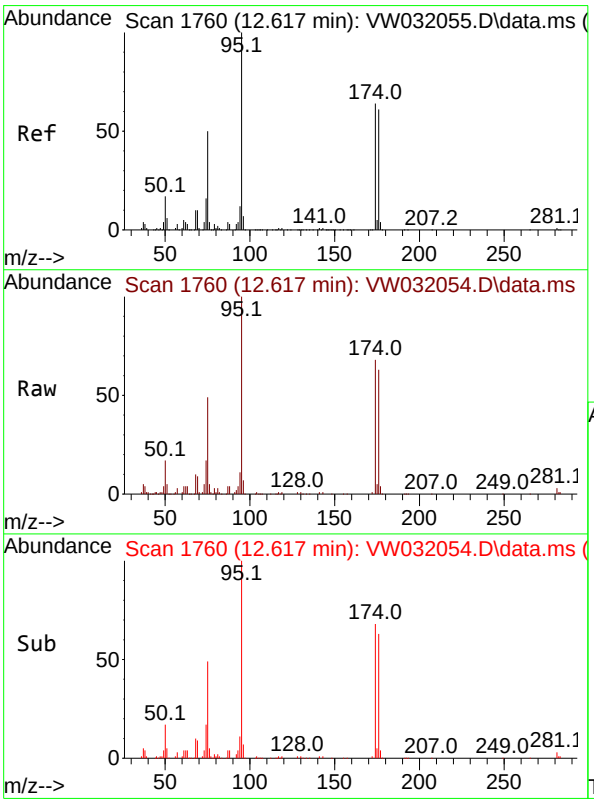
#61
1,2-Dibromoethane
Concen: 19.371 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 47302

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.2	111.4

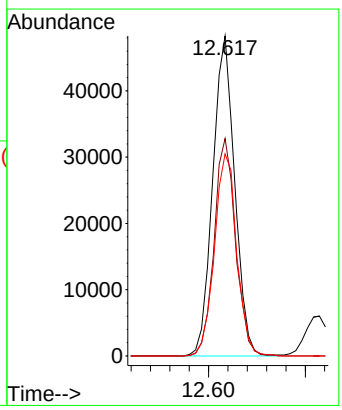


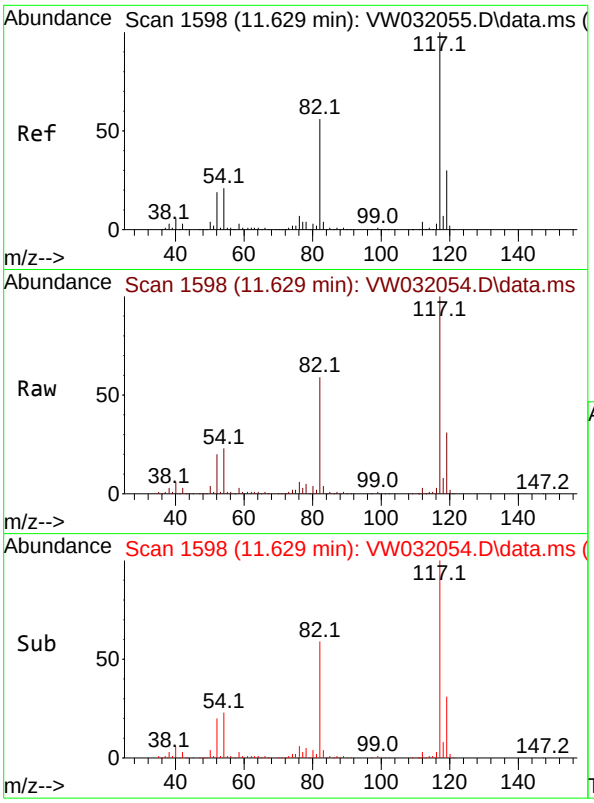


#62
4-Bromofluorobenzene
Concen: 20.149 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 95 Resp: 76008

Ion	Ratio	Lower	Upper
95	100		
174	66.3	0.0	129.0
176	64.1	0.0	124.6



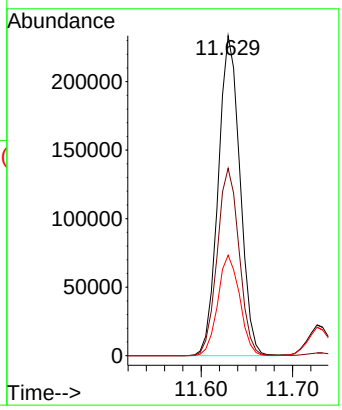


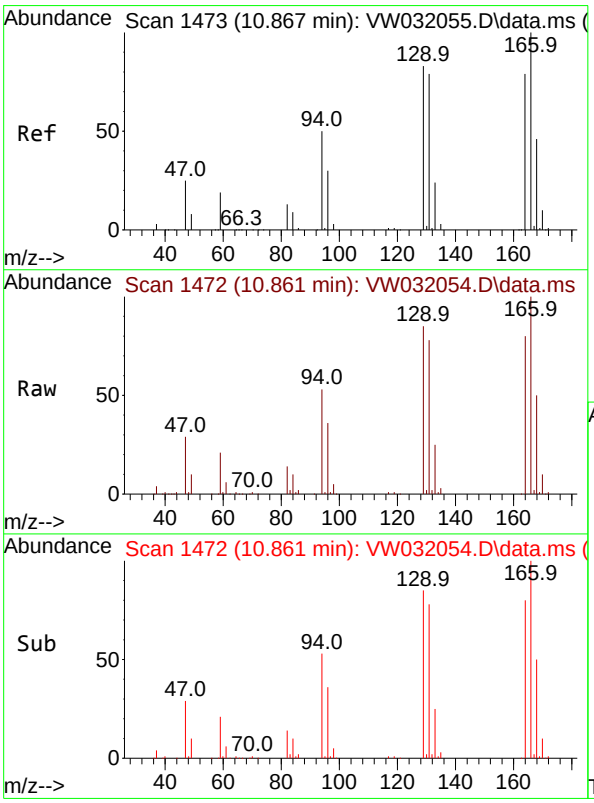
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 386857

Ion	Ratio	Lower	Upper
117	100		
82	58.5	45.0	67.4
119	31.4	24.2	36.4

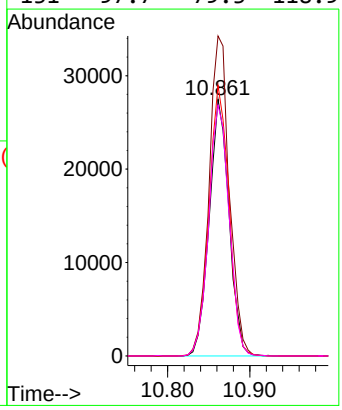


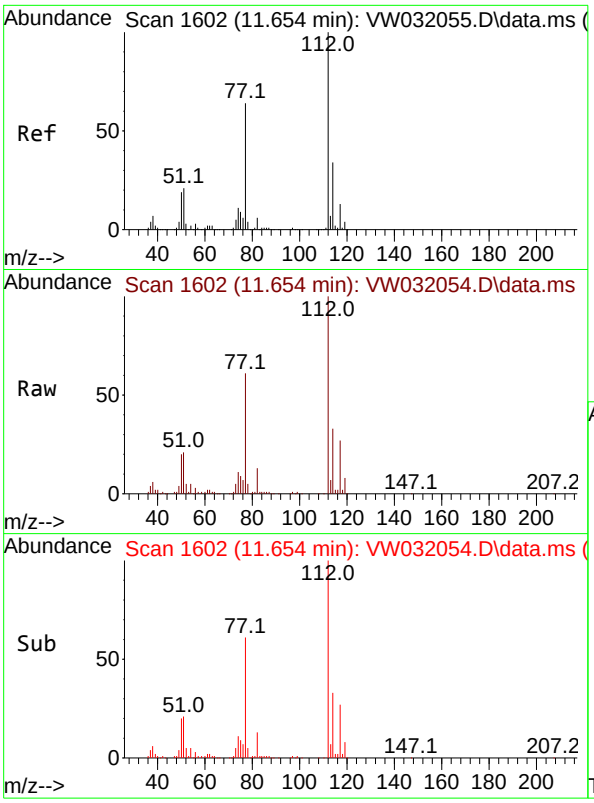


#64
Tetrachloroethene
Concen: 20.434 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:164 Resp: 45660

Ion	Ratio	Lower	Upper
164	100		
166	124.7	100.9	151.3
129	105.4	83.6	125.4
131	97.7	79.3	118.9



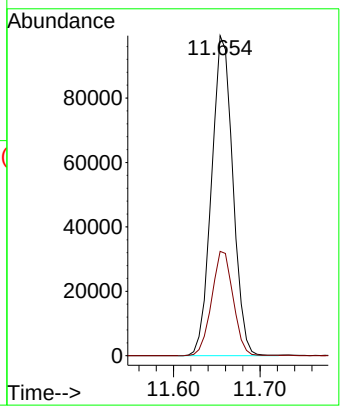


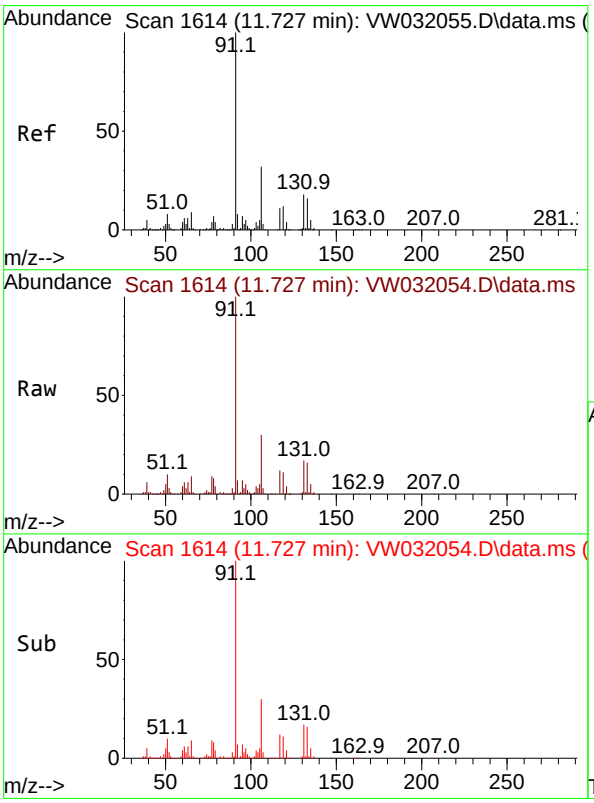
#65
Chlorobenzene
Concen: 20.169 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 169830

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.9	40.3

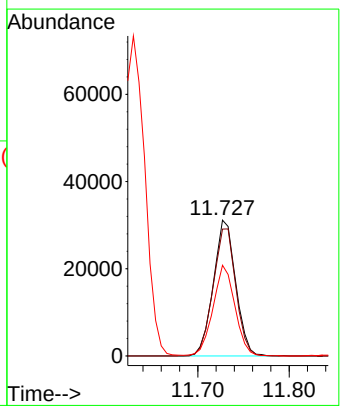


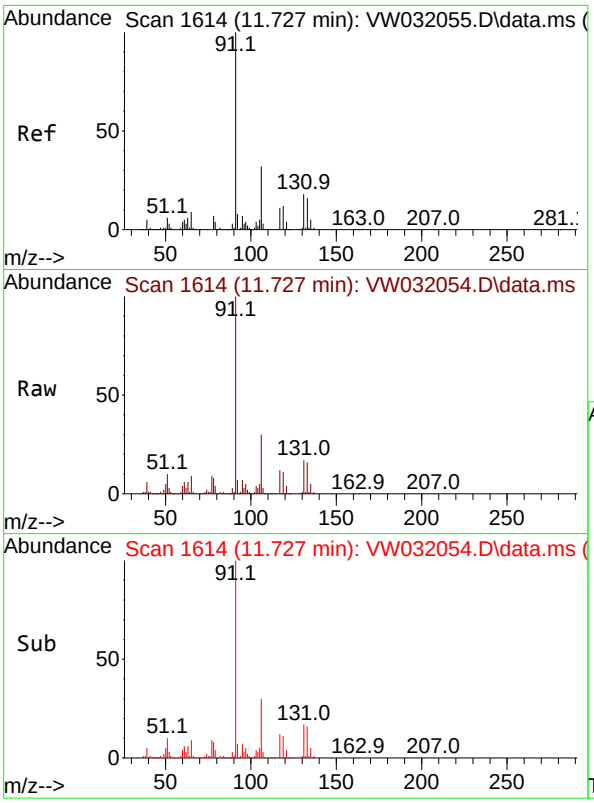


#66
1,1,1,2-Tetrachloroethane
Concen: 20.150 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:131 Resp: 52937

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	65.6	34.5	103.5



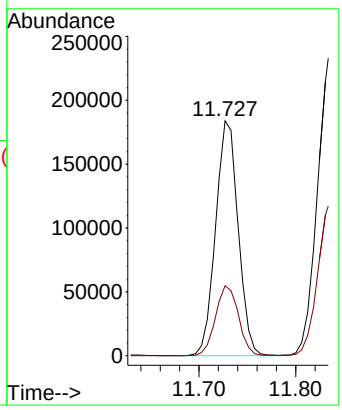


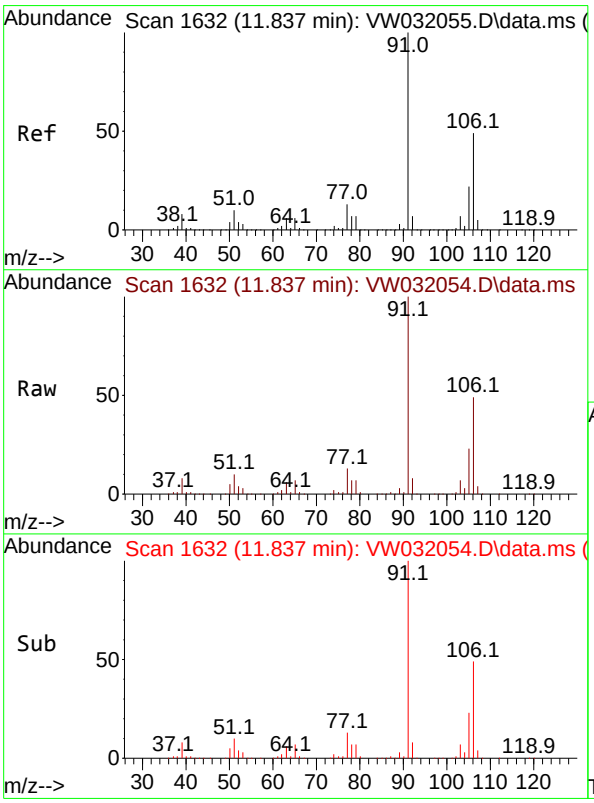
#67
Ethyl Benzene
Concen: 20.836 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 297193

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0

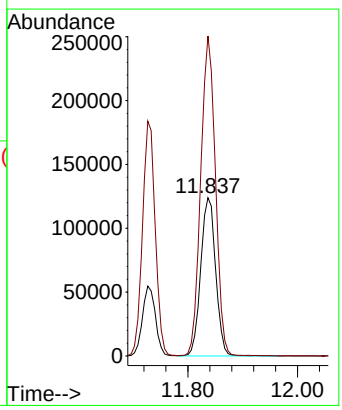


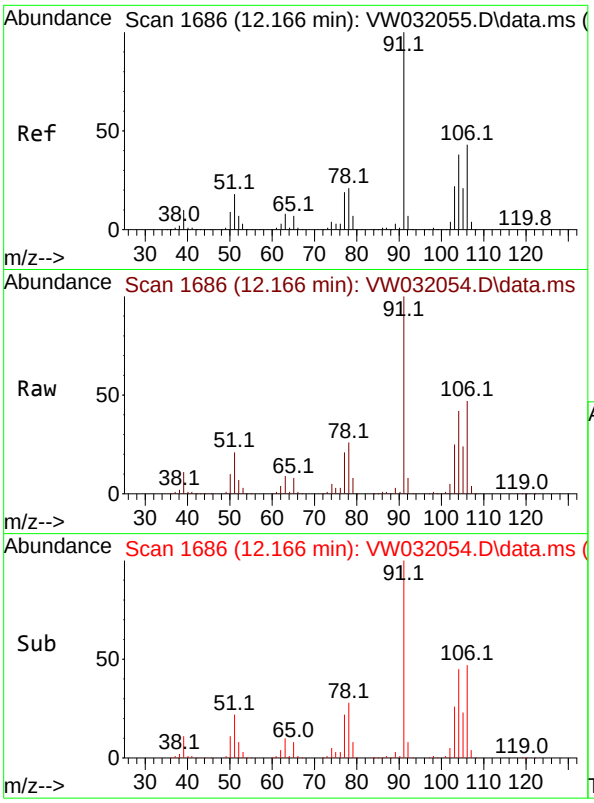


#68
m/p-Xylenes
Concen: 42.376 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 233224

Ion	Ratio	Lower	Upper
106	100		
91	199.8	162.2	243.2



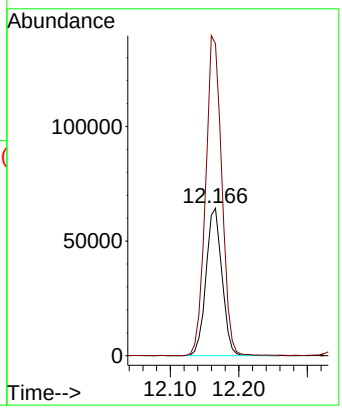


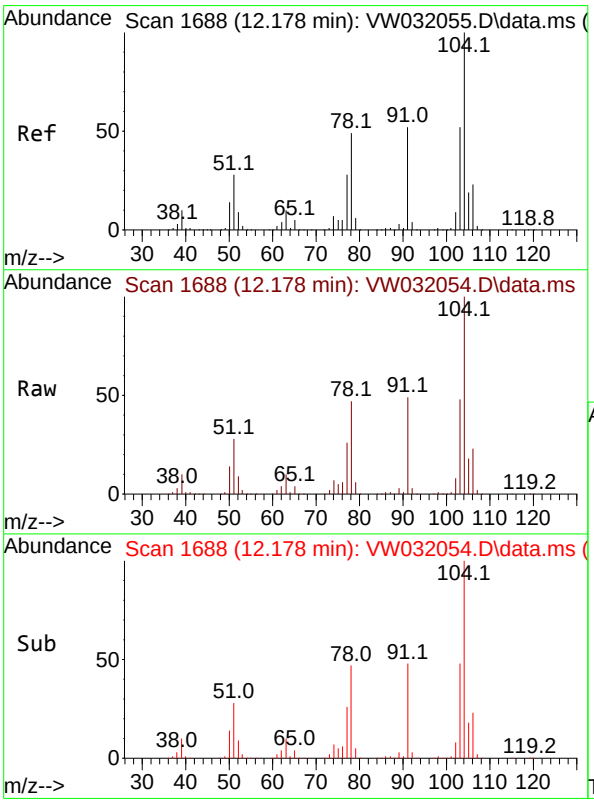
#69
o-Xylene
Concen: 20.482 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 104192

Ion	Ratio	Lower	Upper
106	100		
91	220.7	110.8	332.3

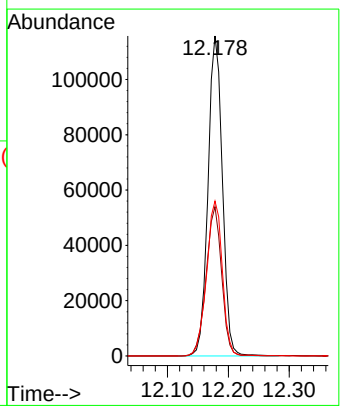


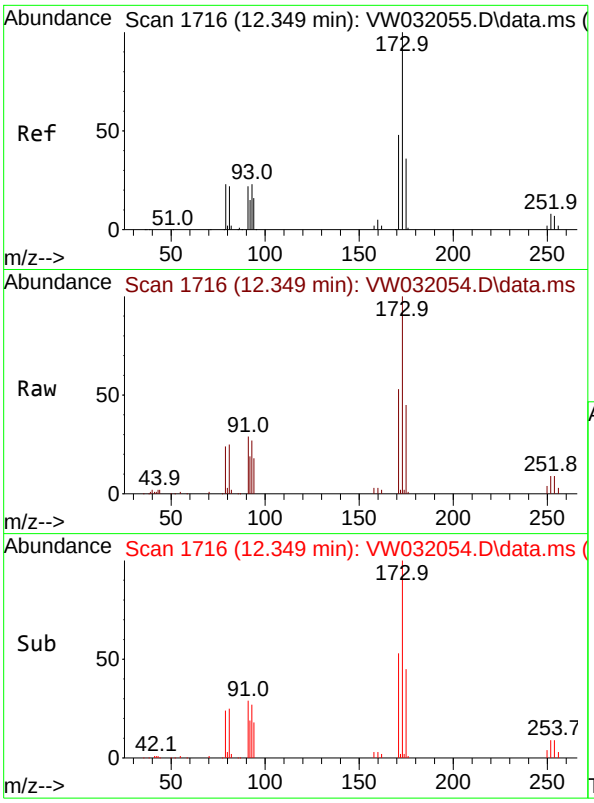


#70
Styrene
Concen: 20.991 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:104 Resp: 189664

Ion	Ratio	Lower	Upper
104	100		
78	50.1	41.2	61.8
103	53.2	43.8	65.8



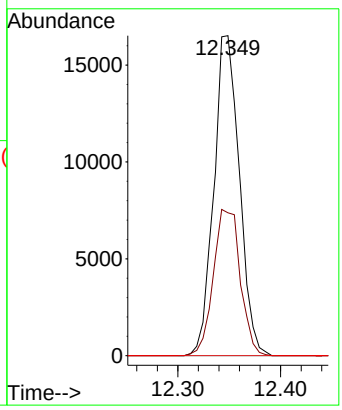


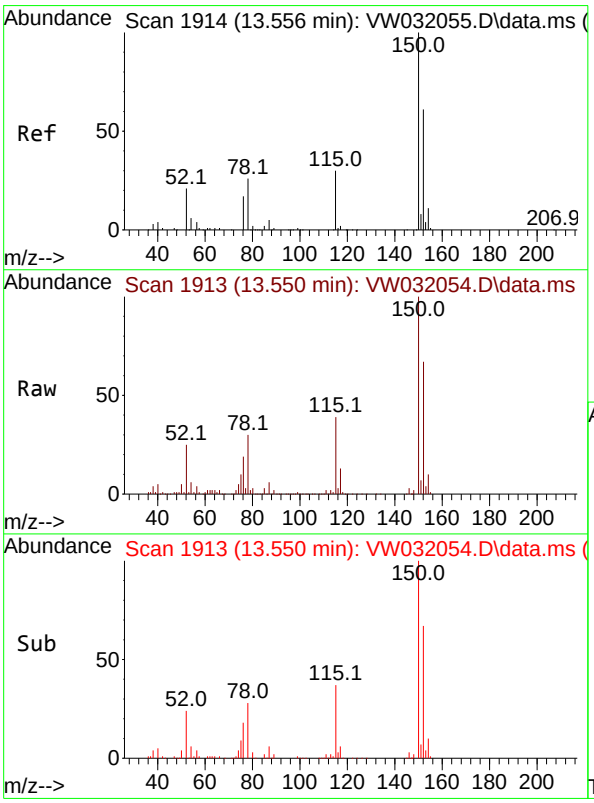
#71
Bromoform
Concen: 18.991 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 28540

Ion	Ratio	Lower	Upper
173	100		
175	48.1	22.9	68.7
254	0.0	0.0	0.0

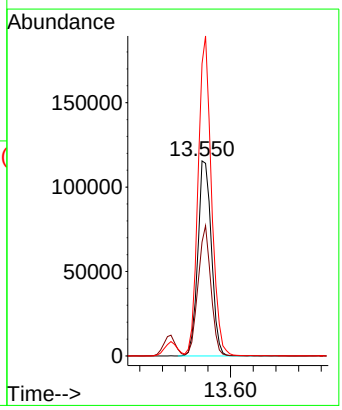


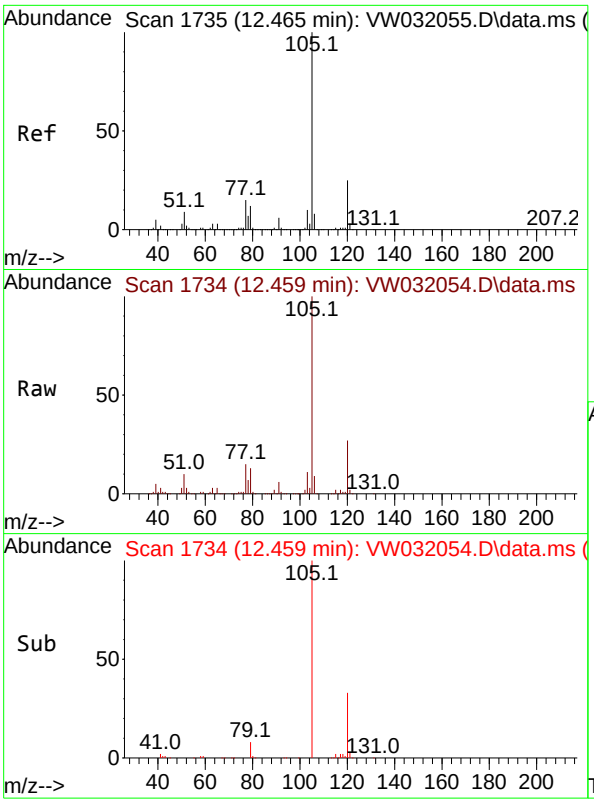


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:152 Resp: 191343

Ion	Ratio	Lower	Upper
152	100		
115	63.0	32.6	97.8
150	161.1	0.0	359.4



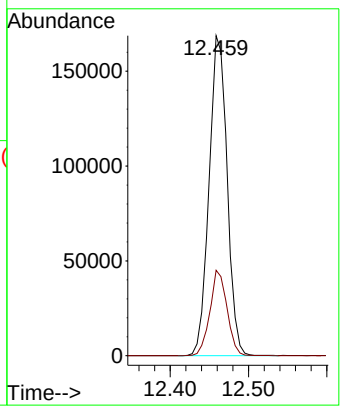


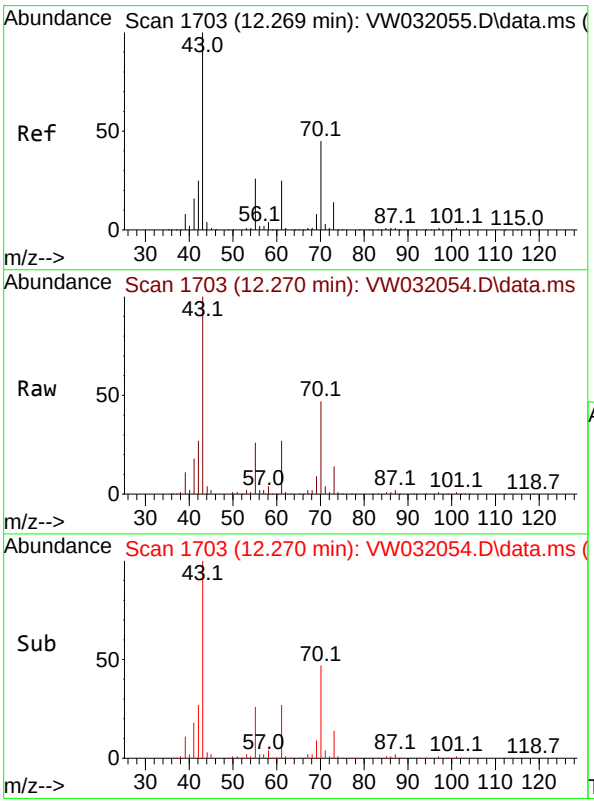
#73
Isopropylbenzene
Concen: 20.178 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 269829

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.4

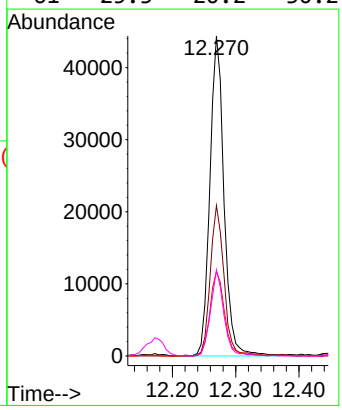


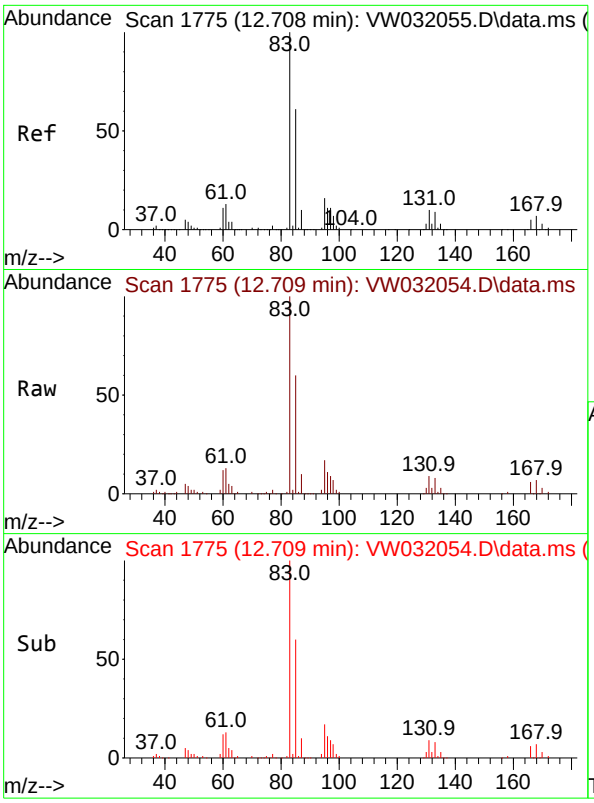


#74
N-amyl acetate
Concen: 18.005 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 69075

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.0	55.4
55	27.7	21.1	31.7
61	25.3	20.2	30.2



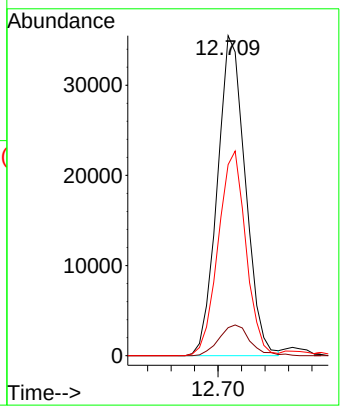


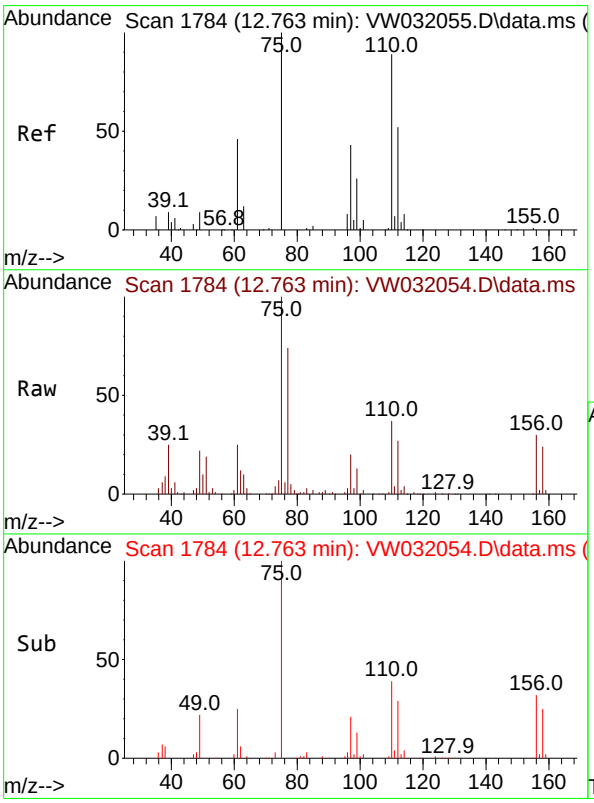
#75
1,1,2,2-Tetrachloroethane
Concen: 18.531 ug/l
RT: 12.709 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 58836

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	63.2	32.2	96.6

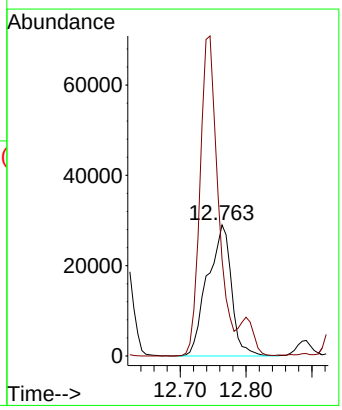


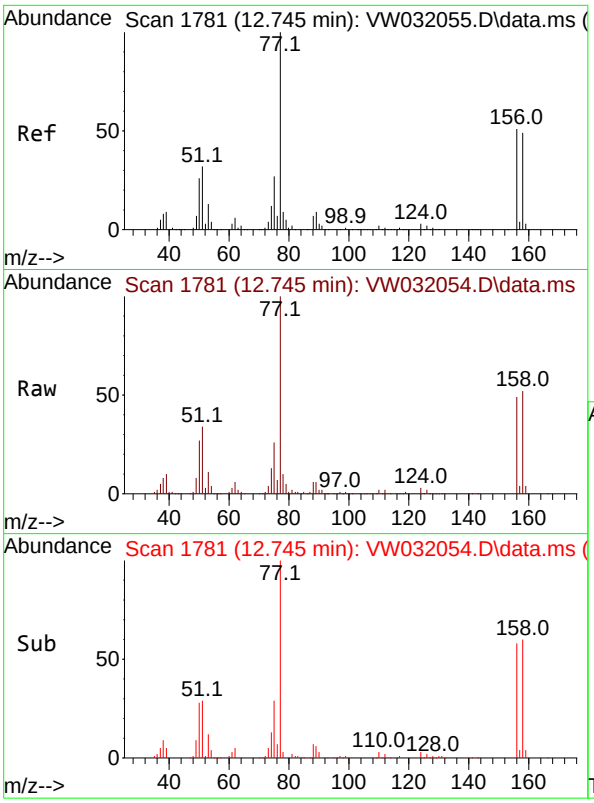


#76
1,2,3-Trichloropropane
Concen: 25.017 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 73585

Ion	Ratio	Lower	Upper
75	100		
77	183.8	123.5	370.5



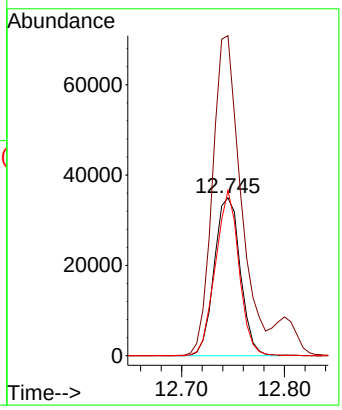


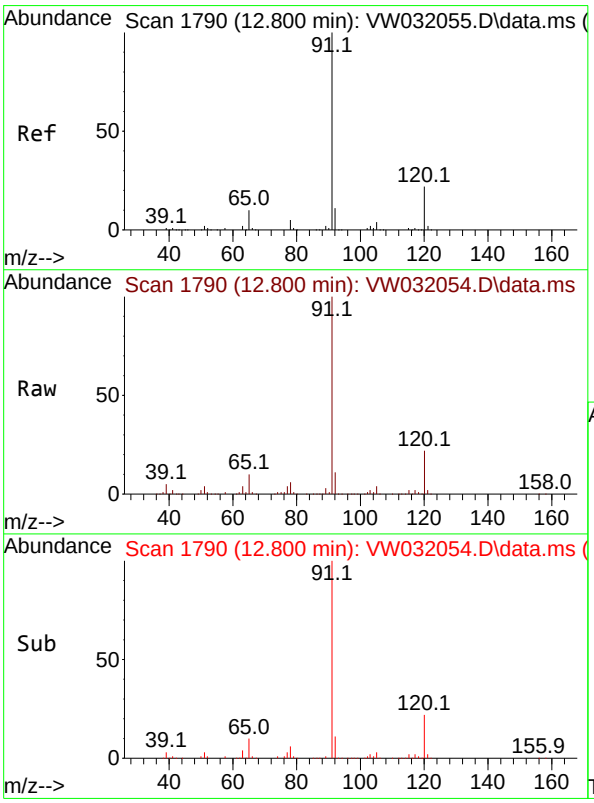
#77
Bromobenzene
Concen: 19.221 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 61389

Ion	Ratio	Lower	Upper
156	100		
77	220.3	108.7	326.3
158	95.2	48.3	144.9

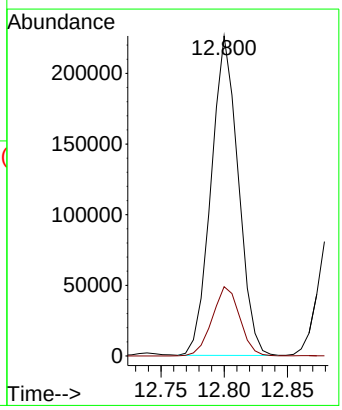


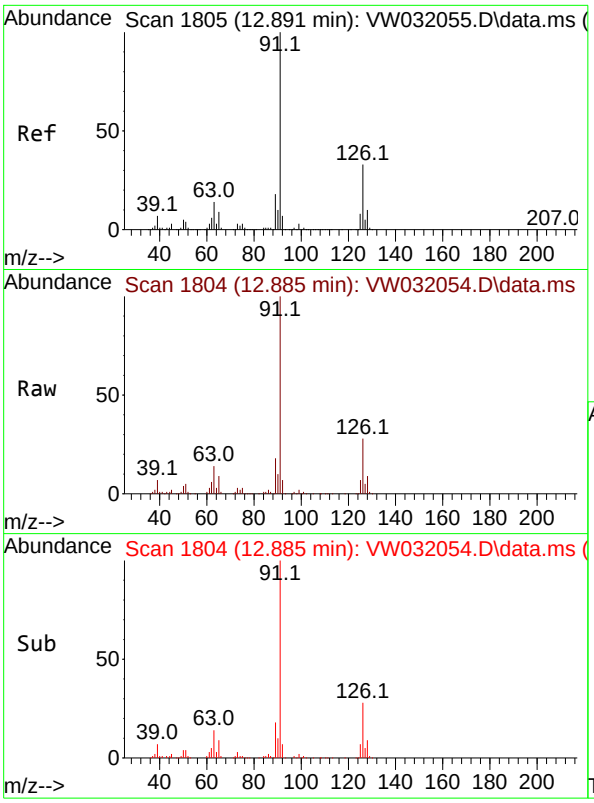


#78
n-propylbenzene
Concen: 20.476 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 337098

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3



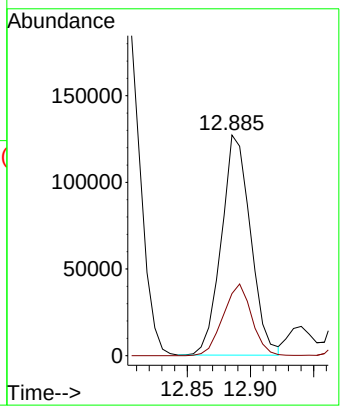


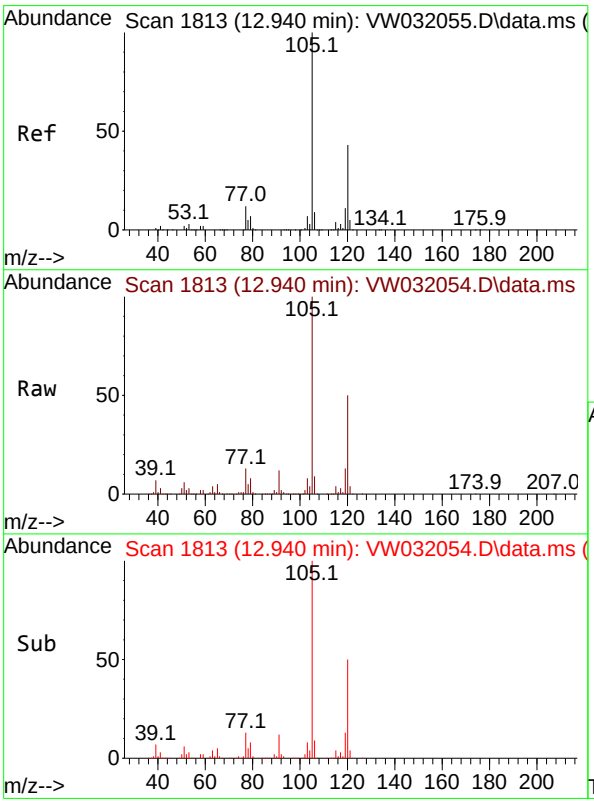
#79
2-Chlorotoluene
Concen: 20.069 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 203918

Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.9	47.7

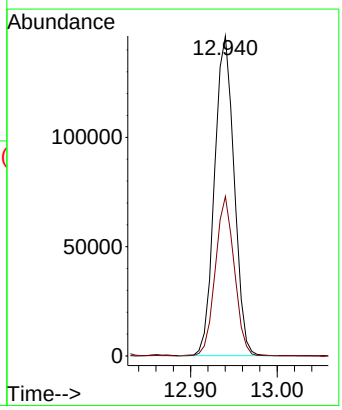


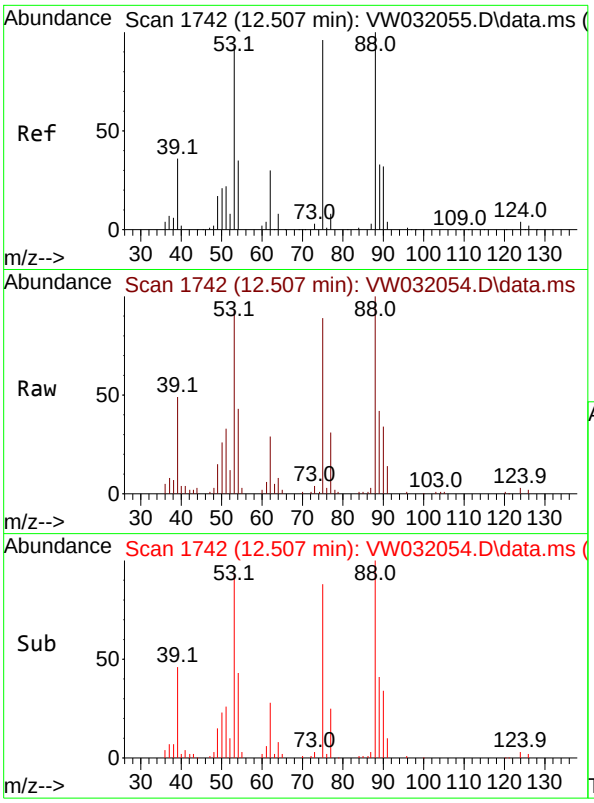


#80
1,3,5-Trimethylbenzene
Concen: 20.226 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 229615

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.4	70.0



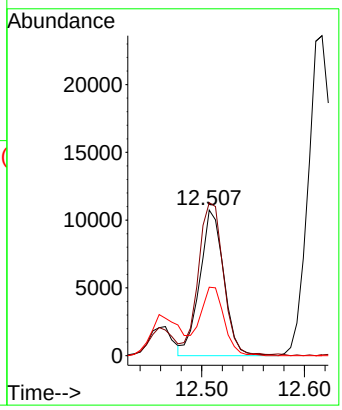


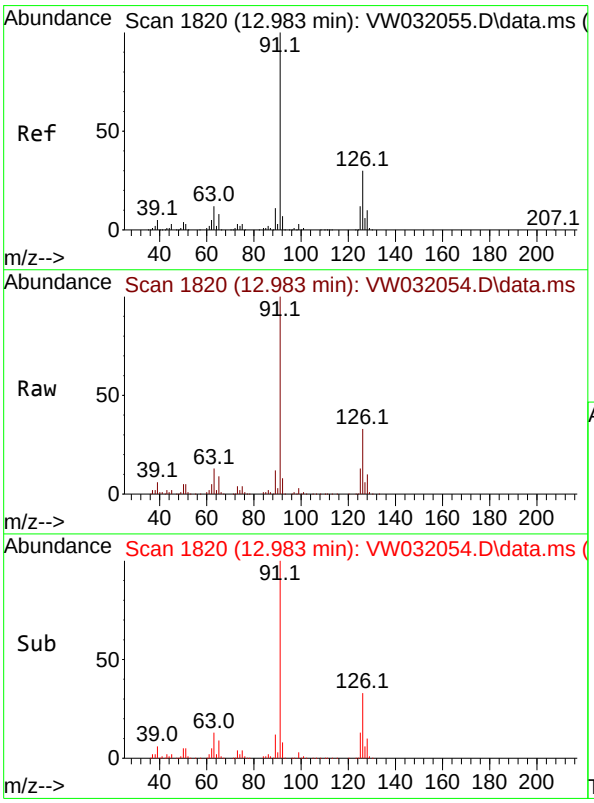
#81
trans-1,4-Dichloro-2-butene
Concen: 17.458 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 17512

Ion	Ratio	Lower	Upper
75	100		
53	110.9	81.0	121.6
89	48.9	37.3	55.9

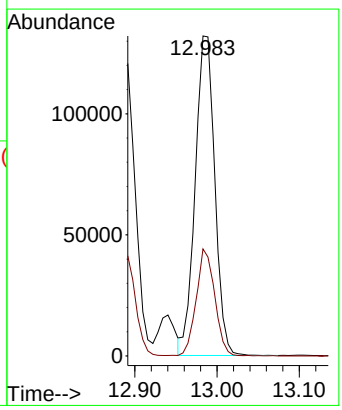


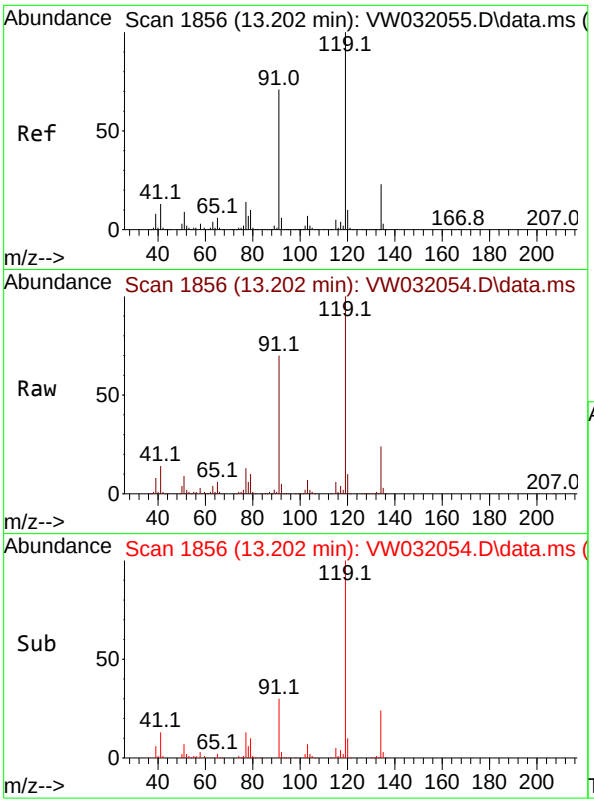


#82
4-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 218637

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.5	46.5



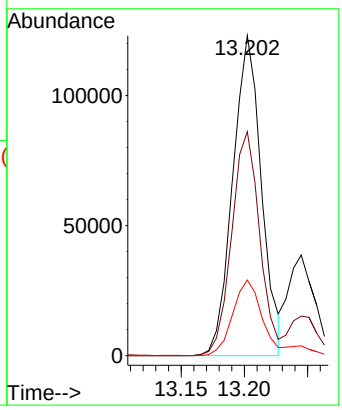


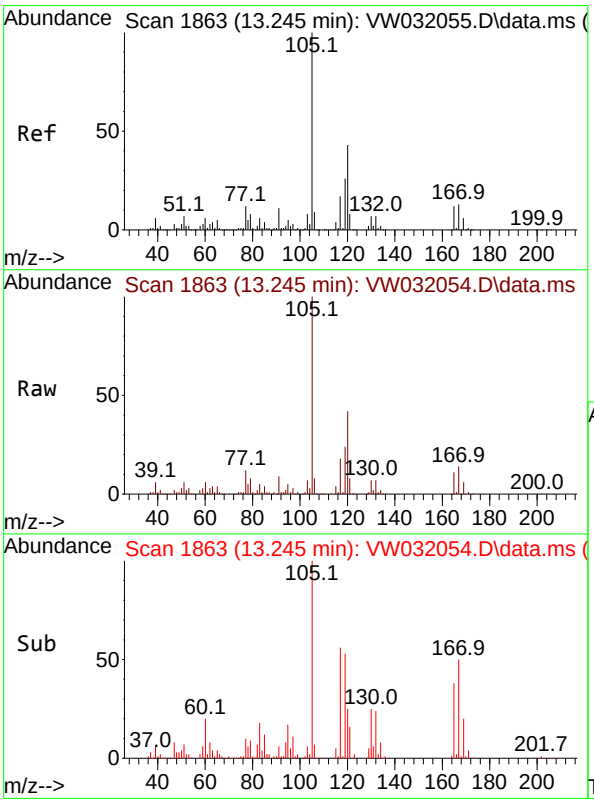
#83
tert-Butylbenzene
Concen: 20.608 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 194168

Ion	Ratio	Lower	Upper
119	100		
91	68.1	35.3	105.9
134	24.2	12.1	36.3

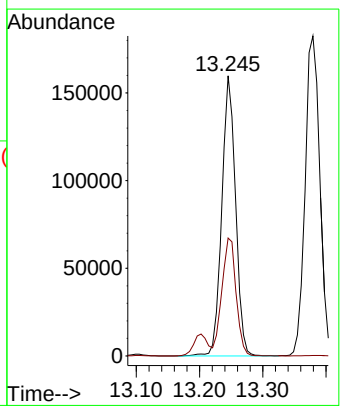


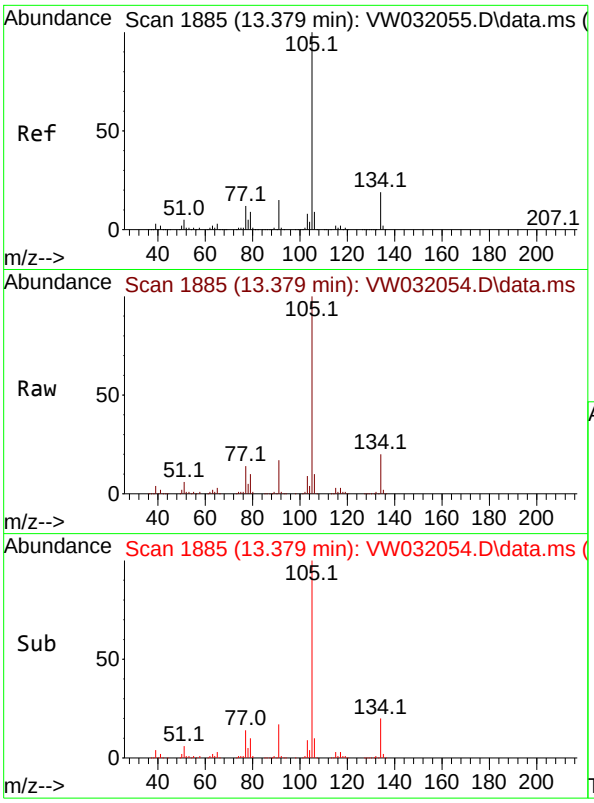


#84
1,2,4-Trimethylbenzene
Concen: 20.774 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 240078

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8



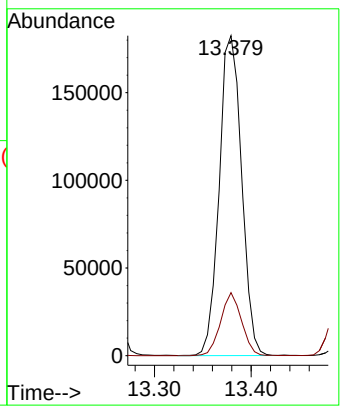


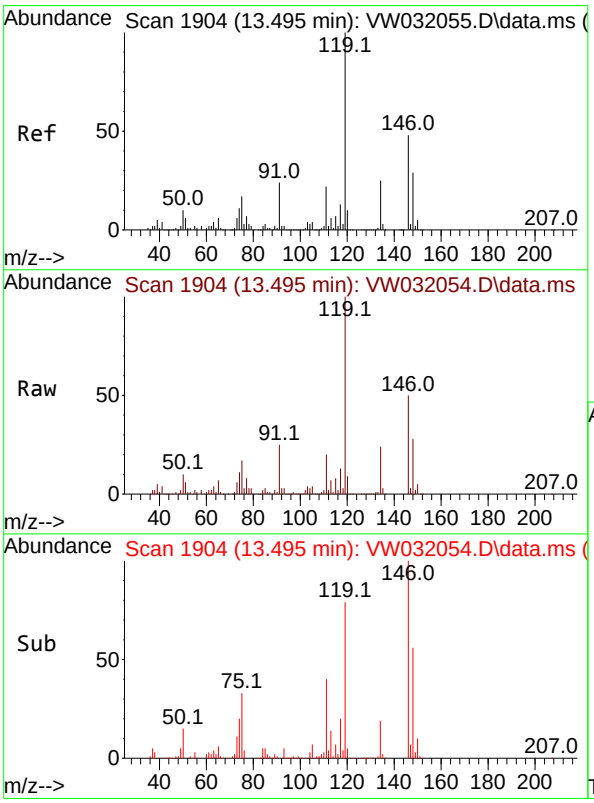
#85
sec-Butylbenzene
Concen: 20.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 292689

Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.9	29.7

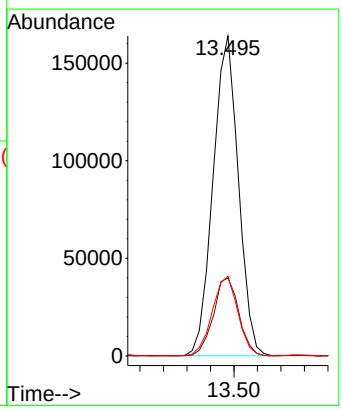


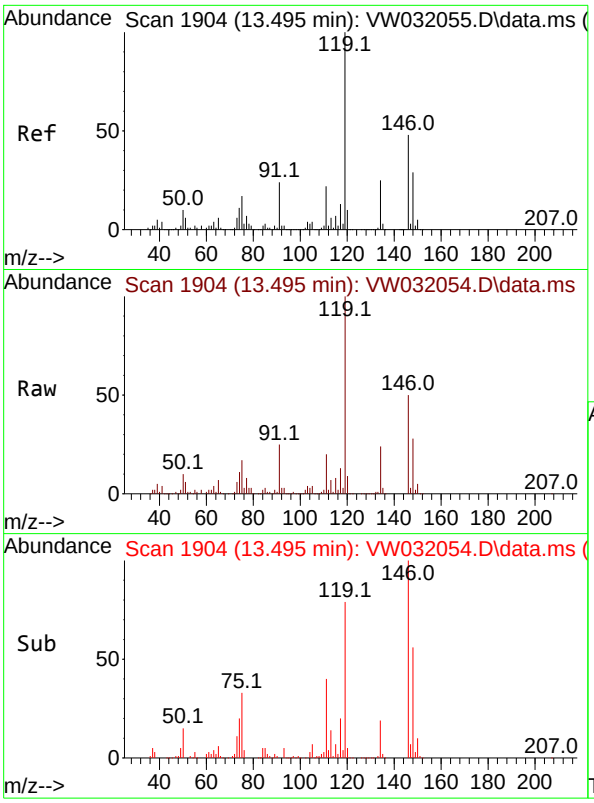


#86
p-Isopropyltoluene
Concen: 20.638 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:119 Resp: 245081

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.4	37.0
91	25.1	12.1	36.3



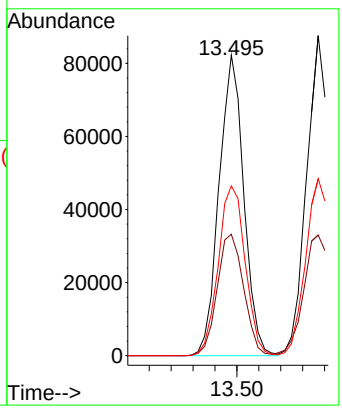


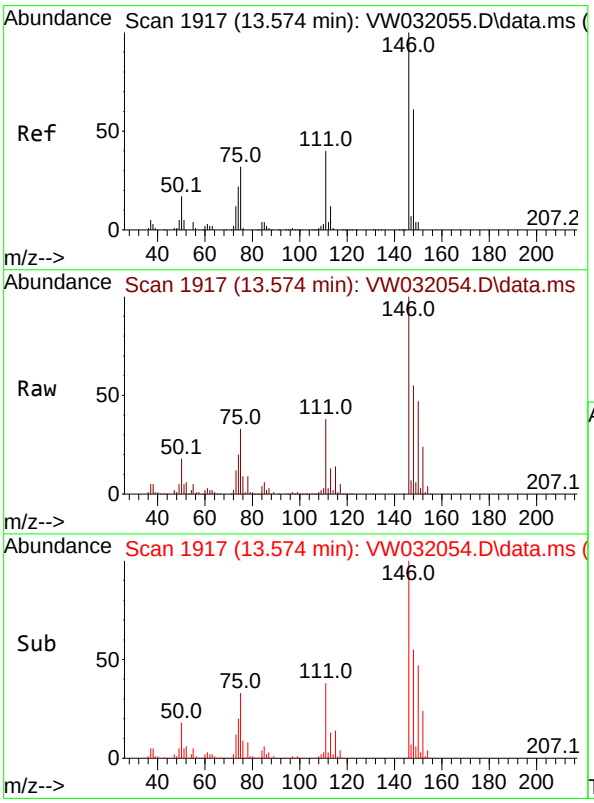
#87
1,3-Dichlorobenzene
Concen: 20.282 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 128893

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.2	63.6
148	61.5	30.3	90.8

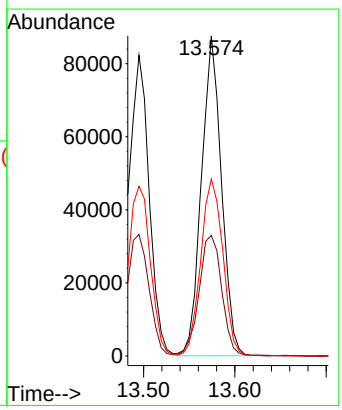


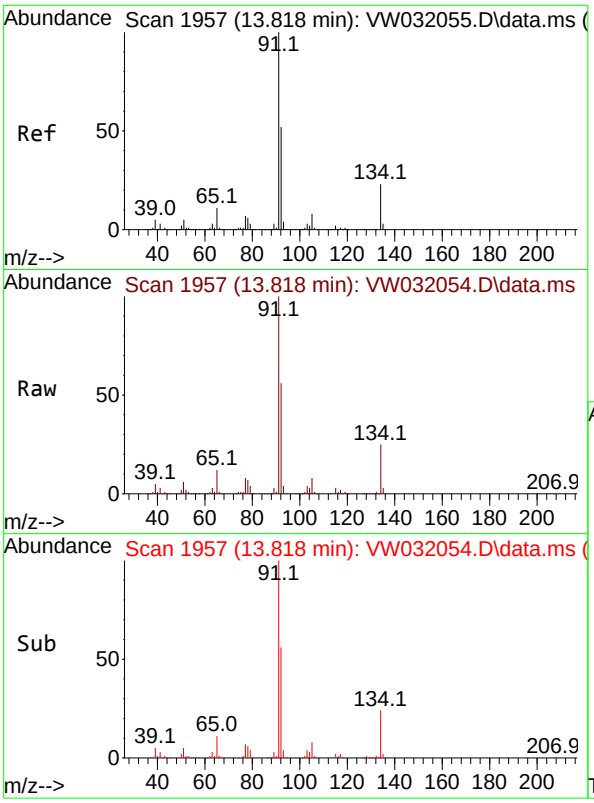


#88
1,4-Dichlorobenzene
Concen: 20.724 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 133097

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.6	64.6
148	61.1	32.0	96.2



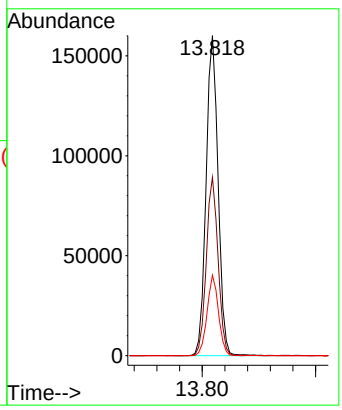


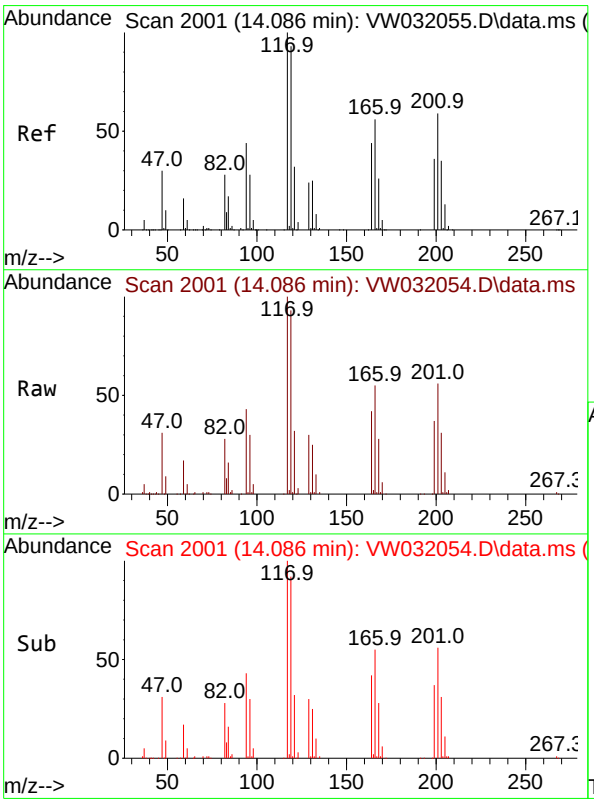
#89
n-Butylbenzene
Concen: 20.328 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 234522

Ion	Ratio	Lower	Upper
91	100		
92	54.8	26.7	80.1
134	24.0	12.0	36.1

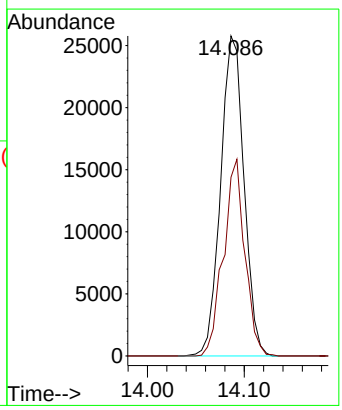


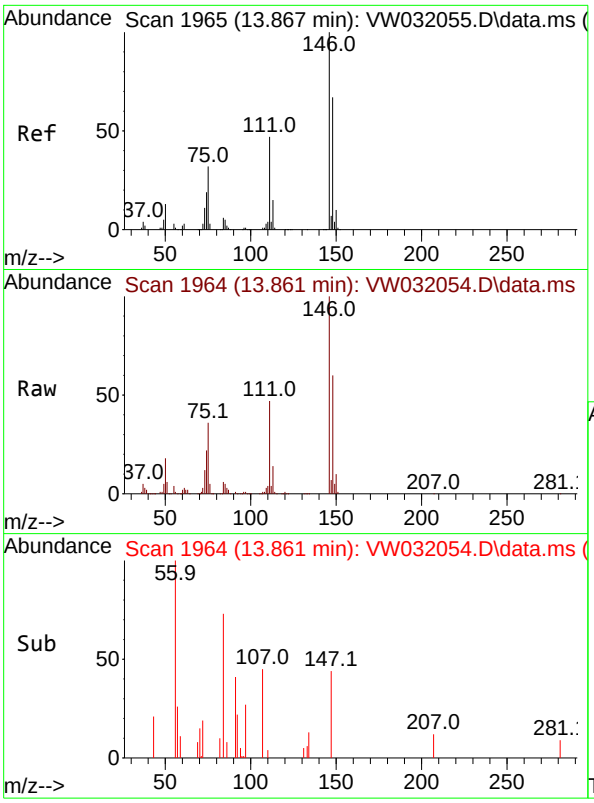


#90
Hexachloroethane
Concen: 19.904 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 43226

Ion	Ratio	Lower	Upper
117	100		
201	56.5	30.9	92.5



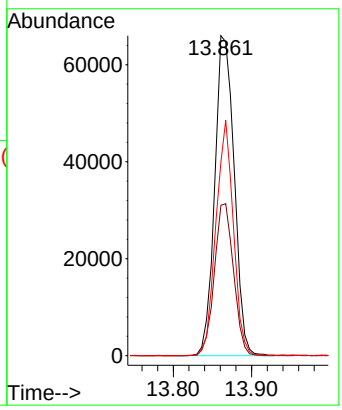


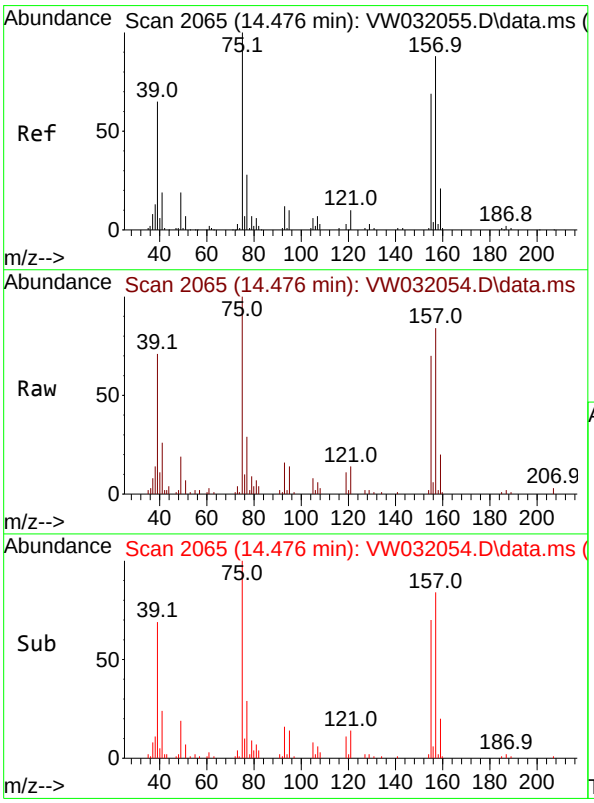
#91
1,2-Dichlorobenzene
Concen: 19.812 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 114056

Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.1	69.3
148	66.0	32.9	98.6

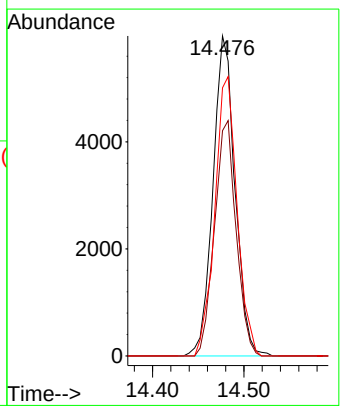


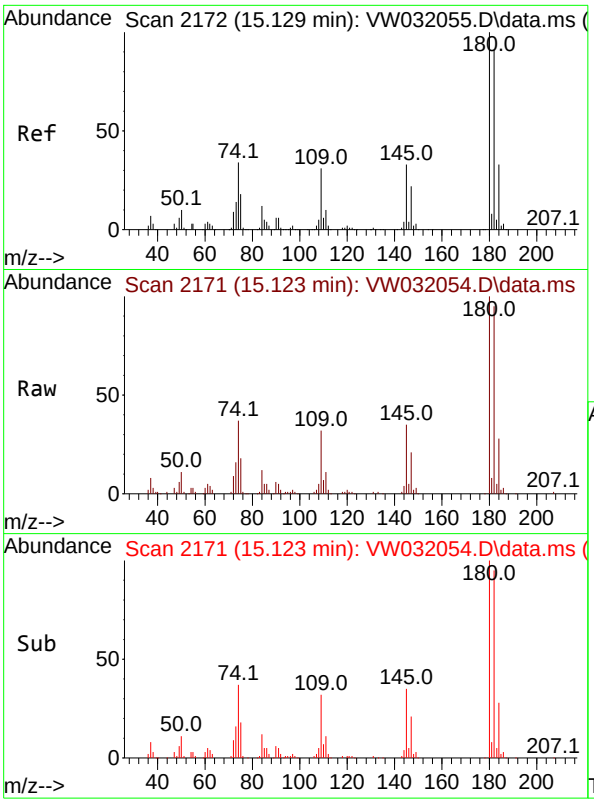


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 10011

Ion	Ratio	Lower	Upper
75	100		
155	72.2	35.2	105.6
157	88.0	47.5	142.6



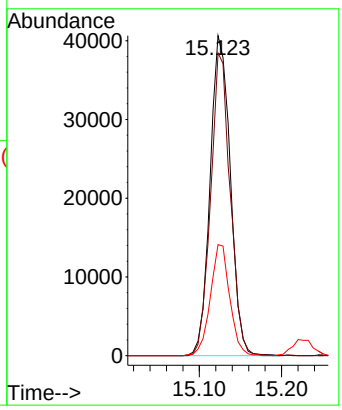


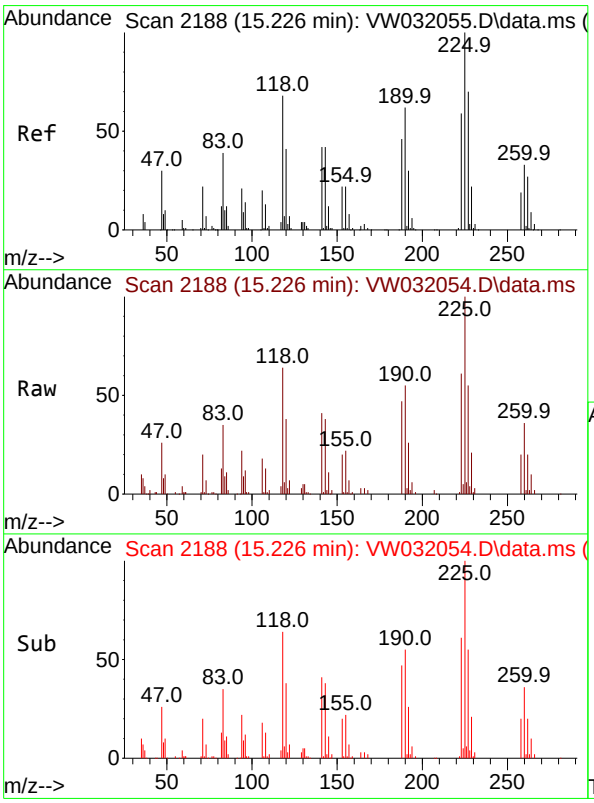
#93
1,2,4-Trichlorobenzene
Concen: 20.102 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 69229

Ion	Ratio	Lower	Upper
180	100		
182	91.7	49.0	147.0
145	33.4	17.3	51.9

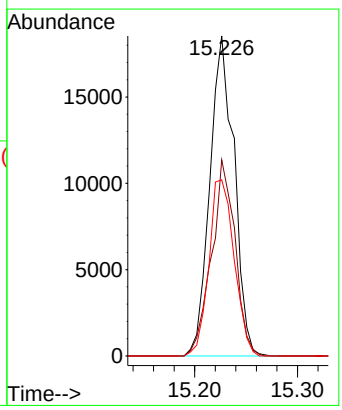


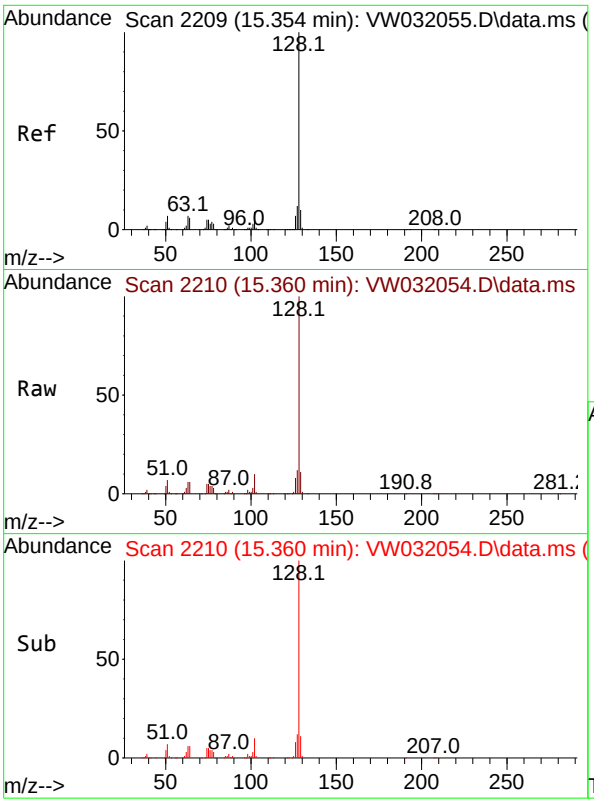


#94
Hexachlorobutadiene
Concen: 19.720 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:225 Resp: 30358

Ion	Ratio	Lower	Upper
225	100		
223	59.4	31.8	95.3
227	57.4	33.5	100.5



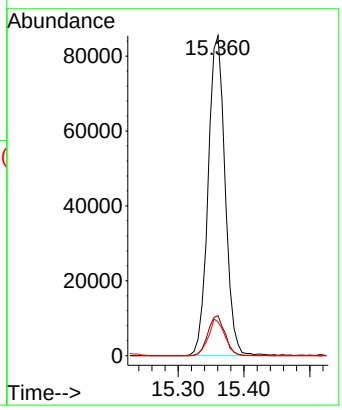


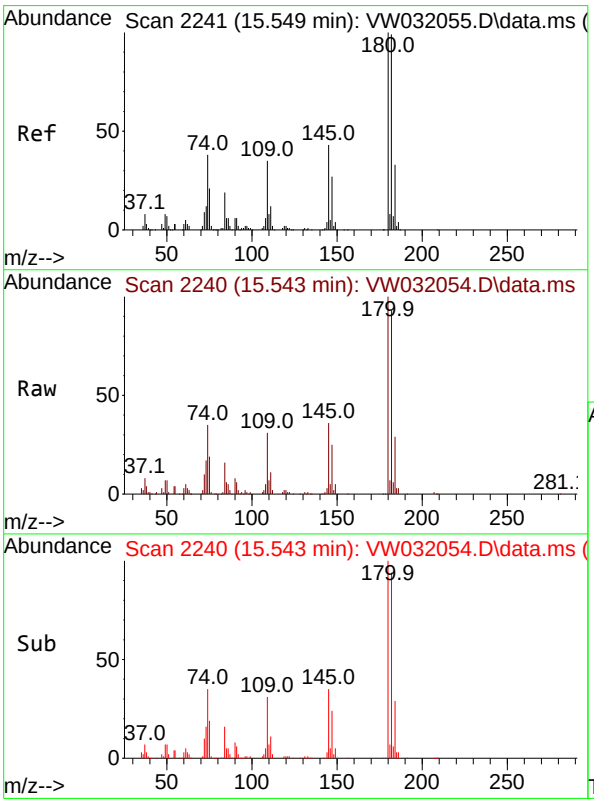
#95
Naphthalene
Concen: 18.147 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 153137

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.1	8.2	12.4

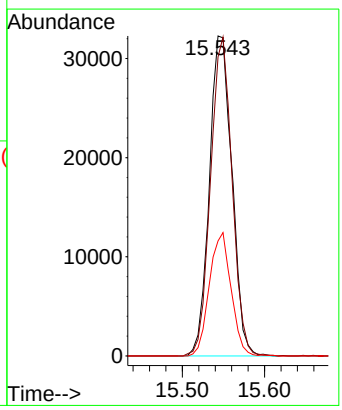




#96
1,2,3-Trichlorobenzene
Concen: 19.635 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 61526

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.0	138.0
145	37.1	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	223324	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	406973	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	378090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	178995	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159972	49.529	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 99.060%			
35) Dibromofluoromethane	7.898	113	132195	50.279	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 100.560%			
50) Toluene-d8	10.325	98	506634	52.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 104.200%			
62) 4-Bromofluorobenzene	12.617	95	187331	52.274	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	75096	47.015	ug/l	100
3) Chloromethane	2.259	50	97719	45.418	ug/l	100
4) Vinyl Chloride	2.405	62	118378	45.486	ug/l	100
5) Bromomethane	2.820	94	91749	46.991	ug/l	100
6) Chloroethane	2.972	64	82045	47.641	ug/l	100
7) Trichlorofluoromethane	3.302	101	103706	49.743	ug/l	100
8) Diethyl Ether	3.722	74	84764	49.624	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.094	101	115526	46.968	ug/l	100
10) Methyl Iodide	4.307	142	167079	47.909	ug/l	100
11) Tert butyl alcohol	5.222	59	56322	269.294	ug/l	100
12) 1,1-Dichloroethene	4.082	96	128304	47.373	ug/l	100
13) Acrolein	3.930	56	78858	236.637	ug/l	100
14) Allyl chloride	4.704	41	192434	48.819	ug/l	100
15) Acrylonitrile	5.405	53	213941	262.963	ug/l	100
16) Acetone	4.161	43	182559	244.127	ug/l	100
17) Carbon Disulfide	4.423	76	347752	47.836	ug/l	100
18) Methyl Acetate	4.710	43	123902	52.361	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	246045	51.560	ug/l	100
20) Methylene Chloride	4.960	84	152186	44.016	ug/l	100
21) trans-1,2-Dichloroethene	5.460	96	139994	48.707	ug/l	100
22) Diisopropyl ether	6.344	45	421731	50.751	ug/l	100
23) Vinyl Acetate	6.283	43	1450553	265.873	ug/l	100
24) 1,1-Dichloroethane	6.240	63	258279	48.646	ug/l	100
25) 2-Butanone	7.191	43	284711	267.883	ug/l	100
26) 2,2-Dichloropropane	7.191	77	129390	48.578	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	167240	49.779	ug/l	100
28) Bromochloromethane	7.533	49	121266	50.191	ug/l	100
29) Tetrahydrofuran	7.551	42	190719	272.100	ug/l	100
30) Chloroform	7.691	83	275905	49.018	ug/l	100
31) Cyclohexane	7.971	56	214597	46.622	ug/l	100
32) 1,1,1-Trichloroethane	7.886	97	194676	47.617	ug/l	100
36) 1,1-Dichloropropene	8.099	75	190046	51.274	ug/l	100
37) Ethyl Acetate	7.276	43	119689	54.829	ug/l	100
38) Carbon Tetrachloride	8.087	117	182422	51.000	ug/l	100
39) Methylcyclohexane	9.343	83	235341	52.093	ug/l	100
40) Benzene	8.337	78	597760	51.883	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	68136	55.039	ug/l		100
42) 1,2-Dichloroethane	8.410	62	189755	51.471	ug/l		100
43) Isopropyl Acetate	8.435	43	219064	54.544	ug/l		100
44) Trichloroethene	9.099	130	137910	50.264	ug/l		100
45) 1,2-Dichloropropane	9.374	63	143446	51.537	ug/l		100
46) Dibromomethane	9.465	93	93001	51.770	ug/l		100
47) Bromodichloromethane	9.654	83	216521	52.307	ug/l		100
48) Methyl methacrylate	9.441	41	108287	55.849	ug/l		100
49) 1,4-Dioxane	9.465	88	26579	1144.321	ug/l		100
51) 4-Methyl-2-Pentanone	10.215	43	635174	280.194	ug/l		100
52) Toluene	10.392	92	379230	52.258	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	209555	54.035	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	236454	53.744	ug/l		100
55) 1,1,2-Trichloroethane	10.788	97	124341	52.088	ug/l		100
56) Ethyl methacrylate	10.648	69	178974	56.027	ug/l		100
57) 1,3-Dichloropropane	10.934	76	216719	52.084	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	490522	277.613	ug/l		100
59) 2-Hexanone	10.971	43	447423	284.986	ug/l		100
60) Dibromochloromethane	11.129	129	142234	52.161	ug/l		100
61) 1,2-Dibromoethane	11.233	107	121625	52.430	ug/l		100
64) Tetrachloroethene	10.867	164	105400	48.263	ug/l		100
65) Chlorobenzene	11.654	112	403926	49.082	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.727	131	128215	49.935	ug/l		100
67) Ethyl Benzene	11.727	91	706877	50.709	ug/l		100
68) m/p-Xylenes	11.837	106	552442	102.704	ug/l		100
69) o-Xylene	12.166	106	257591	51.812	ug/l		100
70) Styrene	12.178	104	457949	51.858	ug/l		100
71) Bromoform	12.349	173	77959	53.078	ug/l	#	100
73) Isopropylbenzene	12.465	105	654522	52.323	ug/l		100
74) N-amyl acetate	12.269	43	199256	55.520	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.708	83	156076	52.549	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	198427	72.113	ug/l		56
77) Bromobenzene	12.745	156	156335	52.326	ug/l		100
78) n-propylbenzene	12.800	91	805515	52.304	ug/l		100
79) 2-Chlorotoluene	12.891	91	490665	51.622	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	555481	52.305	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.507	75	51811	55.213	ug/l		100
82) 4-Chlorotoluene	12.983	91	519957	51.488	ug/l		100
83) tert-Butylbenzene	13.202	119	462373	52.460	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	572429	52.950	ug/l		100
85) sec-Butylbenzene	13.379	105	690647	51.829	ug/l		100
86) p-Isopropyltoluene	13.495	119	589769	53.089	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	313624	52.754	ug/l		100
88) 1,4-Dichlorobenzene	13.574	146	299453	49.844	ug/l		100
89) n-Butylbenzene	13.818	91	569364	52.756	ug/l		100
90) Hexachloroethane	14.086	117	101464	49.942	ug/l		100
91) 1,2-Dichlorobenzene	13.867	146	273581	50.801	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.476	75	28437	53.857	ug/l		100
93) 1,2,4-Trichlorobenzene	15.129	180	164726	51.132	ug/l		100
94) Hexachlorobutadiene	15.226	225	68983	47.902	ug/l		100
95) Naphthalene	15.354	128	434944	55.099	ug/l		100
96) 1,2,3-Trichlorobenzene	15.549	180	149556	51.022	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

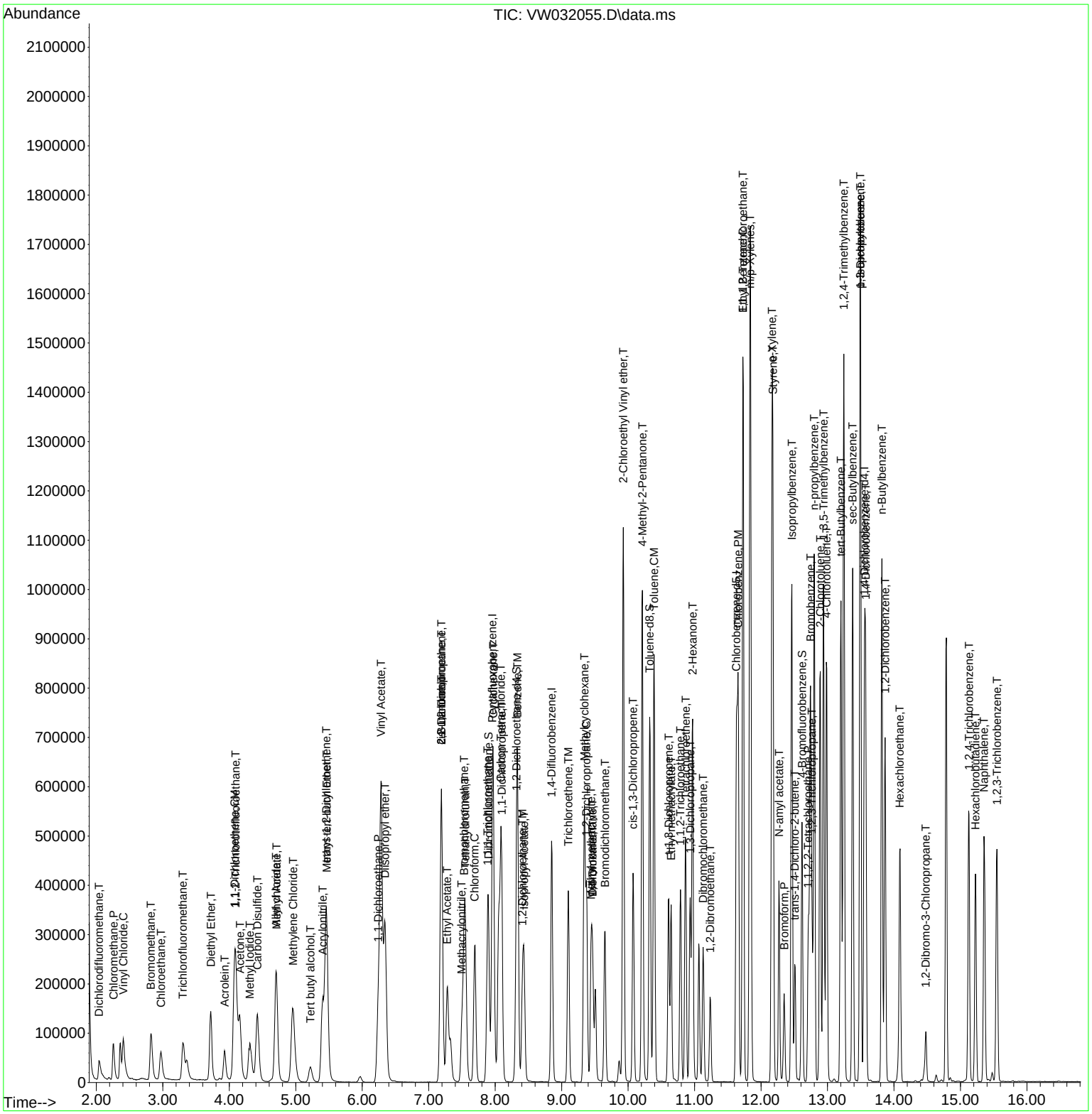
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

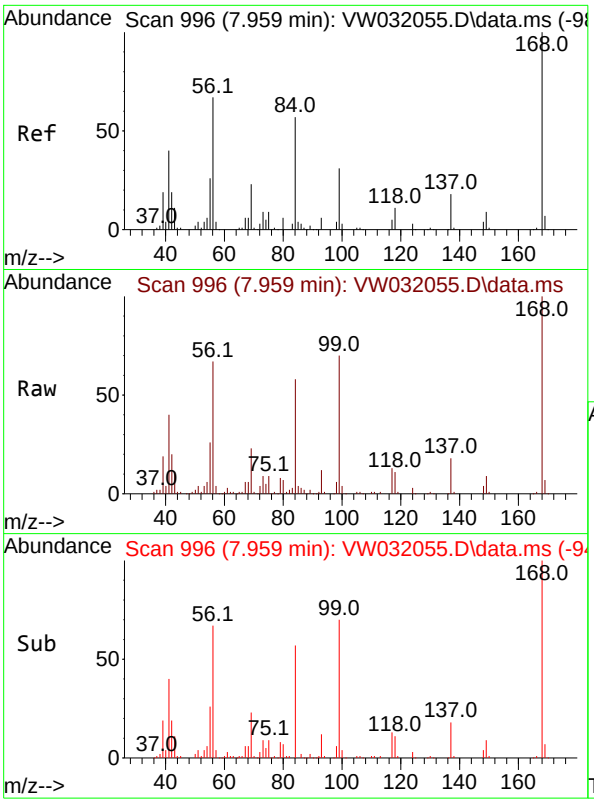
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



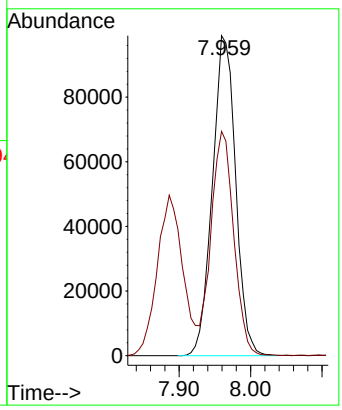


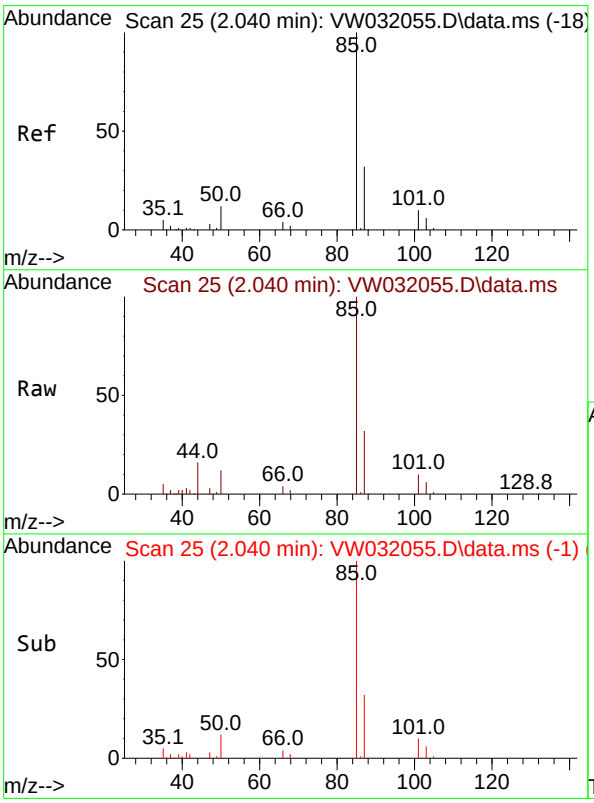
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 223324

Ion	Ratio	Lower	Upper
168	100		
99	70.0	56.0	84.0

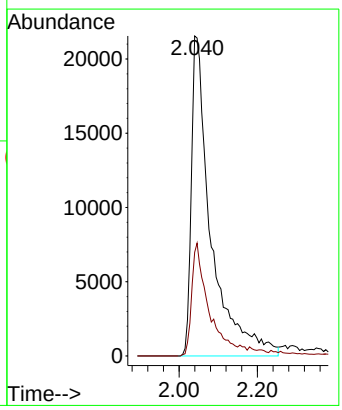


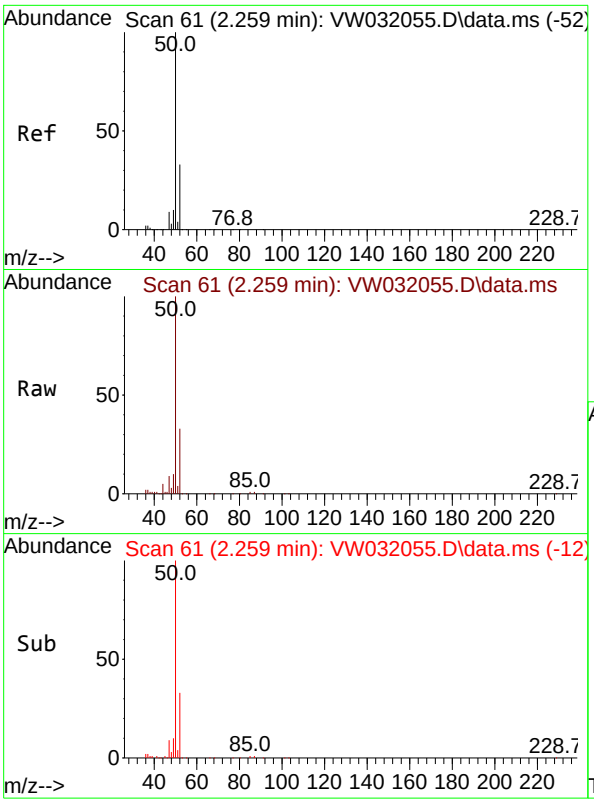


#2
Dichlorodifluoromethane
Concen: 47.015 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 85 Resp: 75096

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6



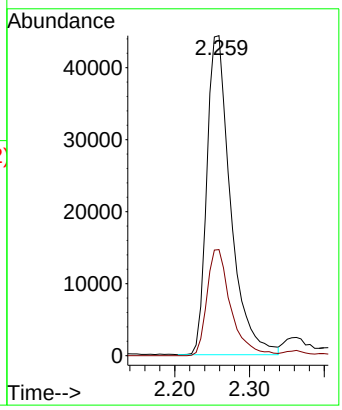


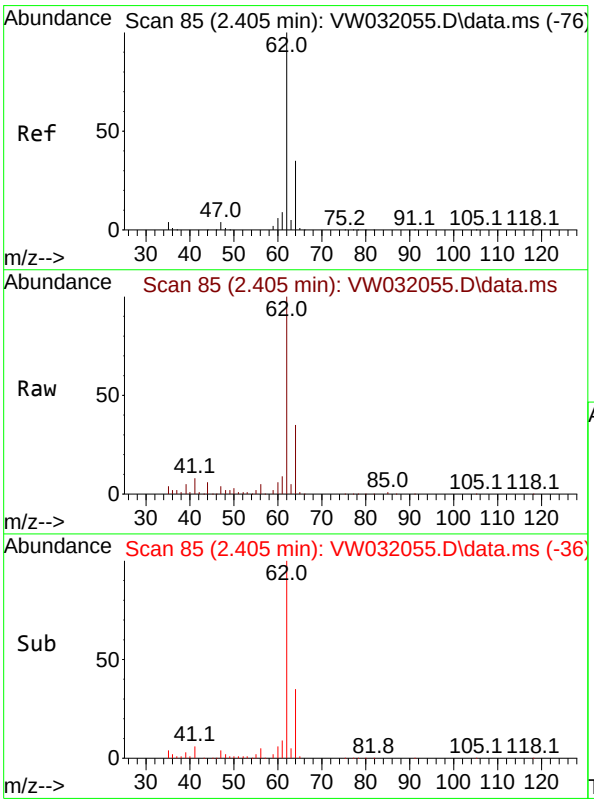
#3
Chloromethane
Concen: 45.418 ug/l
RT: 2.259 min Scan# 61
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 97719

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8

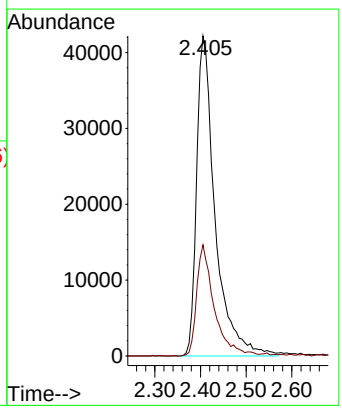


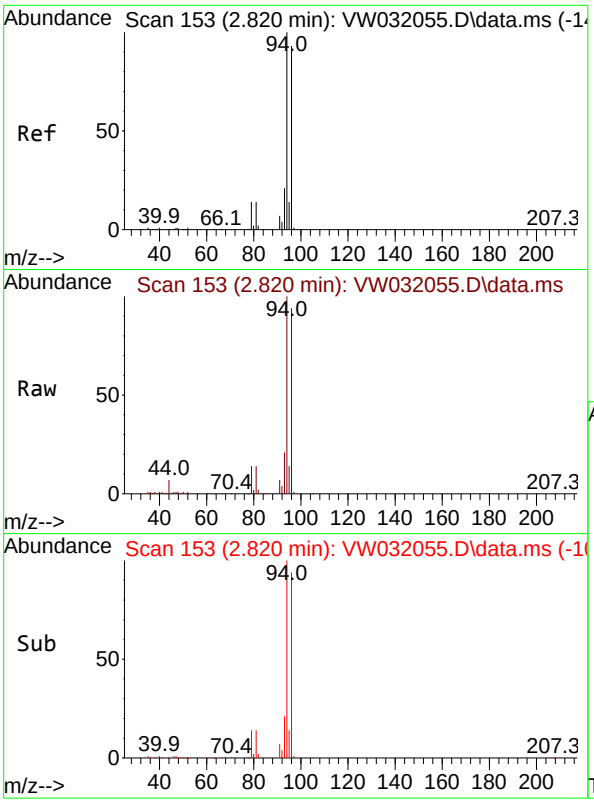


#4
Vinyl Chloride
Concen: 45.486 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 118378

Ion	Ratio	Lower	Upper
62	100		
64	34.7	27.8	41.6



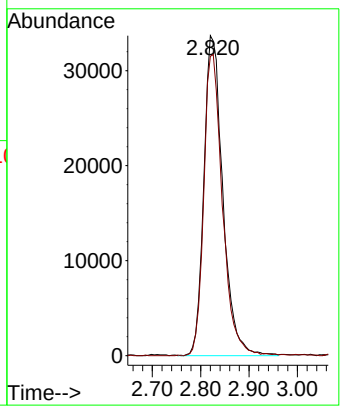


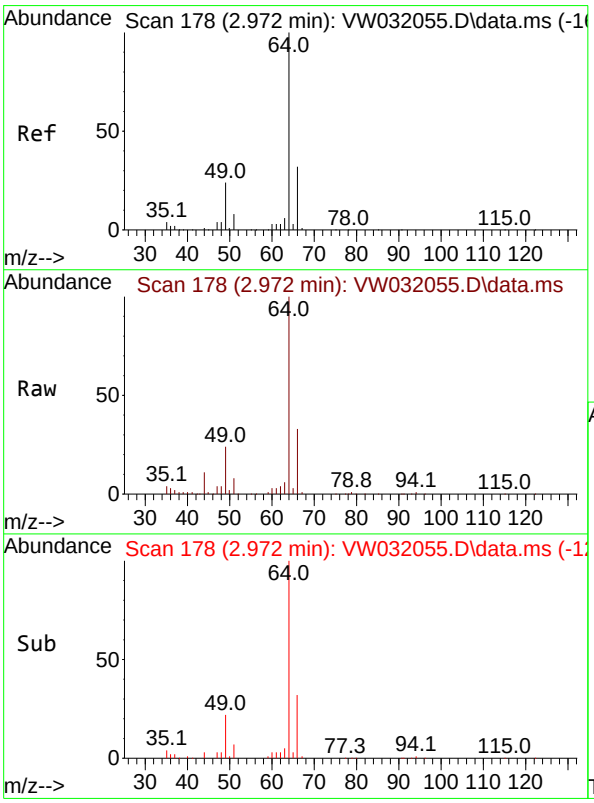
#5
Bromomethane
Concen: 46.991 ug/l
RT: 2.820 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 91749

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.7	112.1

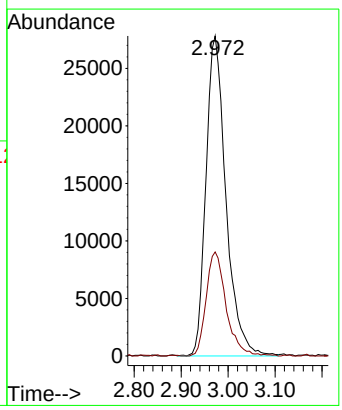


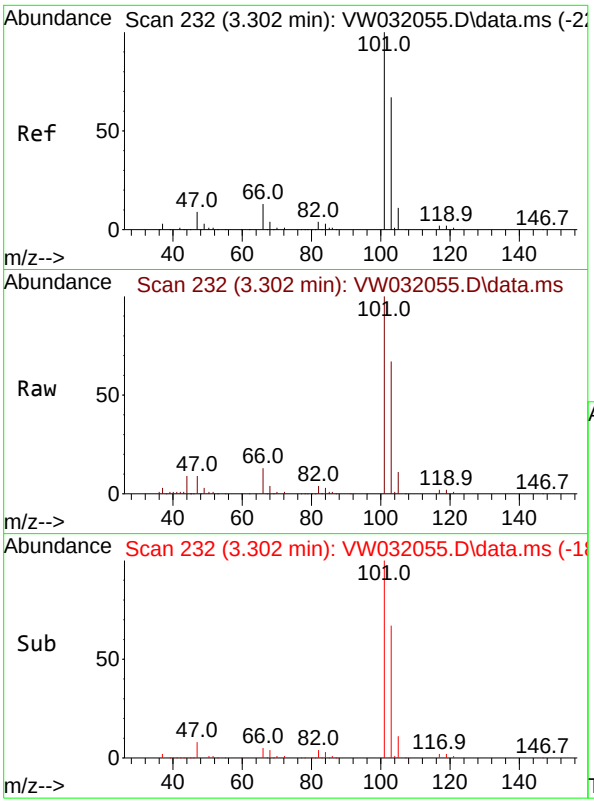


#6
Chloroethane
Concen: 47.641 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 64 Resp: 82045

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.0	39.0



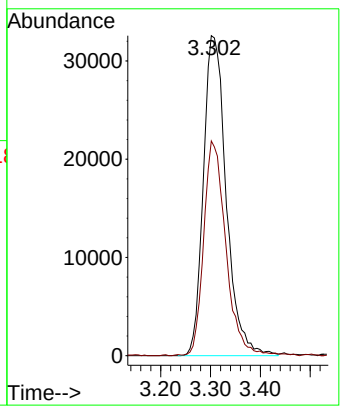


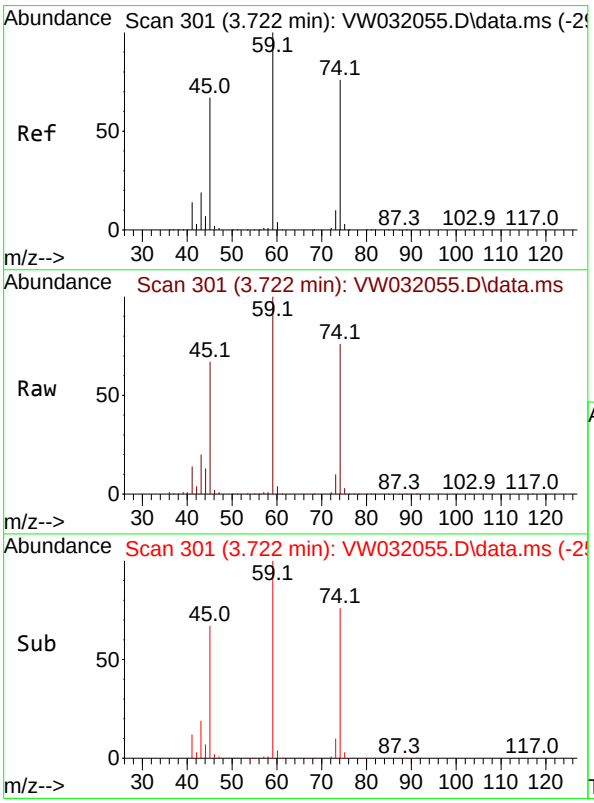
#7
Trichlorofluoromethane
Concen: 49.743 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 103706

Ion	Ratio	Lower	Upper
101	100		
103	66.7	53.4	80.0

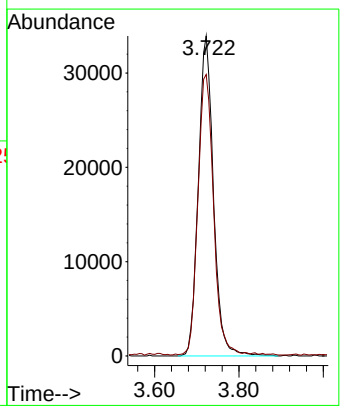


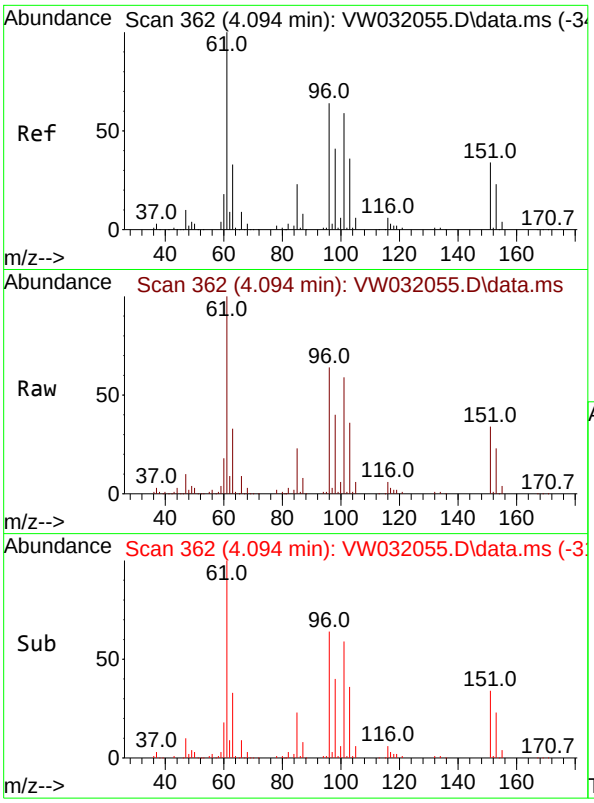


#8
Diethyl Ether
Concen: 49.624 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 74 Resp: 84764

Ion	Ratio	Lower	Upper
74	100		
45	90.8	45.4	136.2



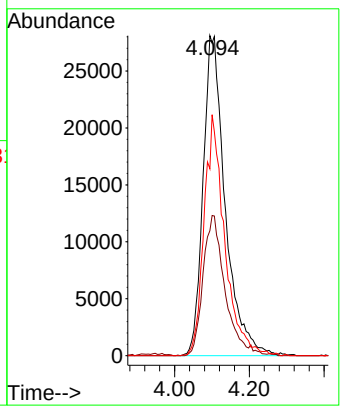


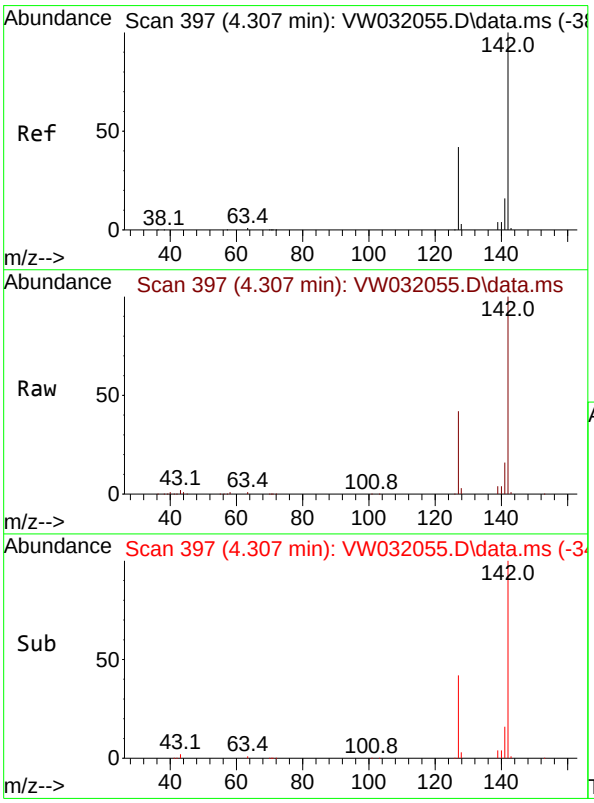
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.968 ug/l
RT: 4.094 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 115526

Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.9	52.3
151	70.3	56.2	84.4

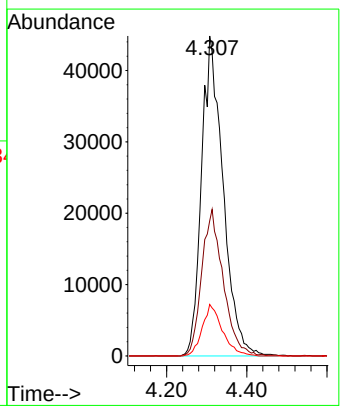


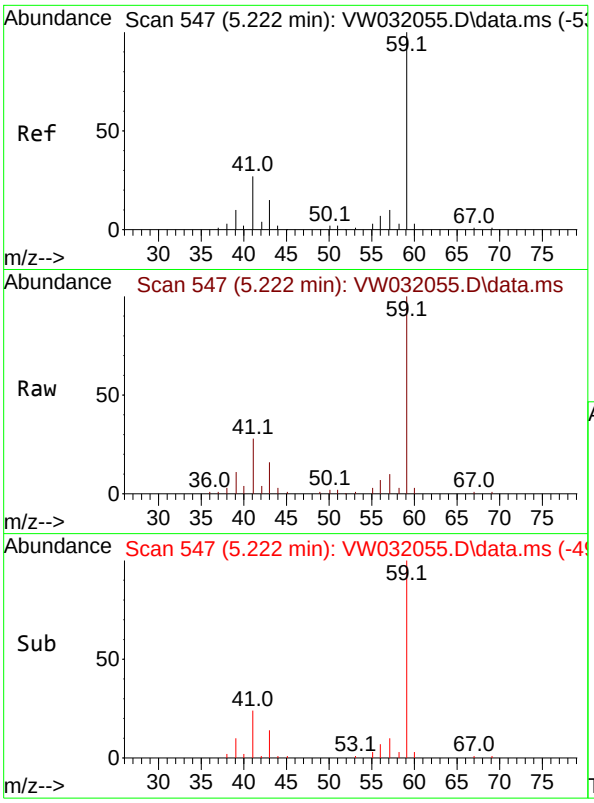


#10
Methyl Iodide
Concen: 47.909 ug/l
RT: 4.307 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:142 Resp: 167079

Ion	Ratio	Lower	Upper
142	100		
127	45.8	36.6	55.0
141	15.1	12.1	18.1



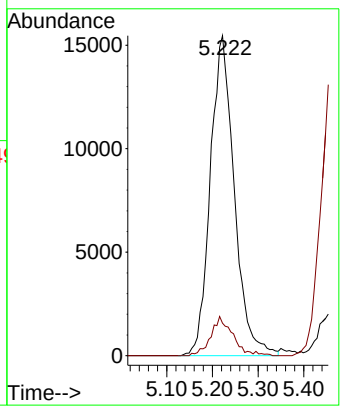


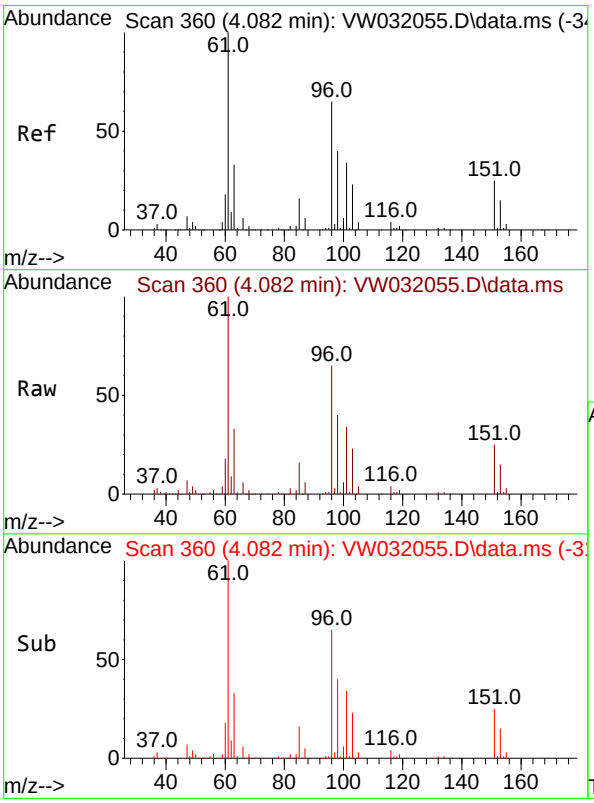
#11
Tert butyl alcohol
Concen: 269.294 ug/l
RT: 5.222 min Scan# 54
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 56322

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

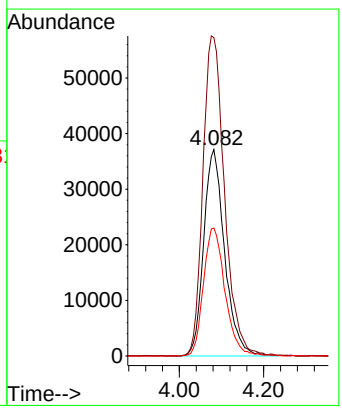


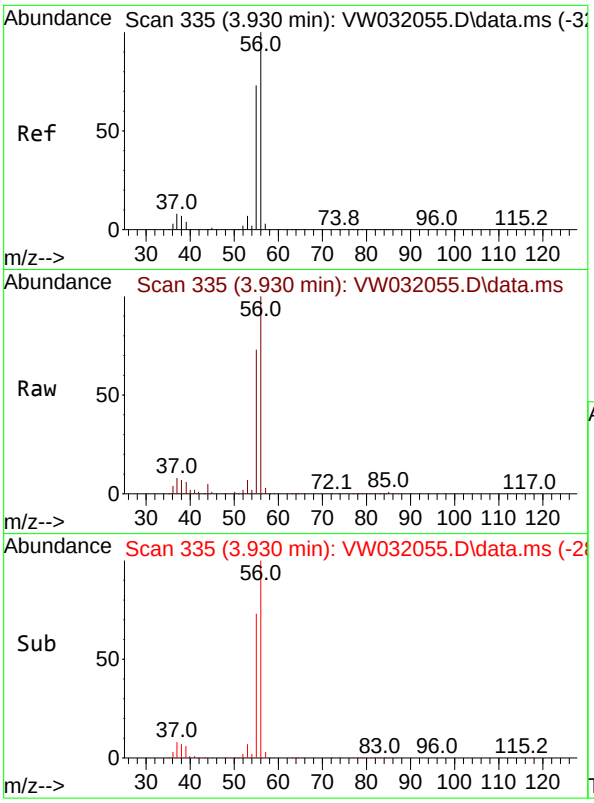


#12
1,1-Dichloroethene
Concen: 47.373 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 128304

Ion	Ratio	Lower	Upper
96	100		
61	154.3	123.4	185.2
98	61.9	49.5	74.3



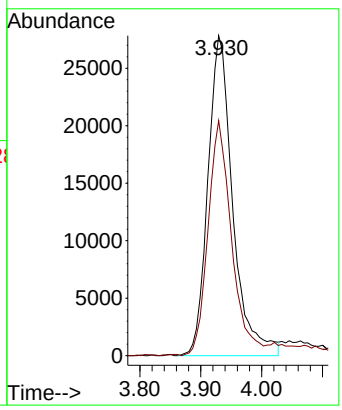


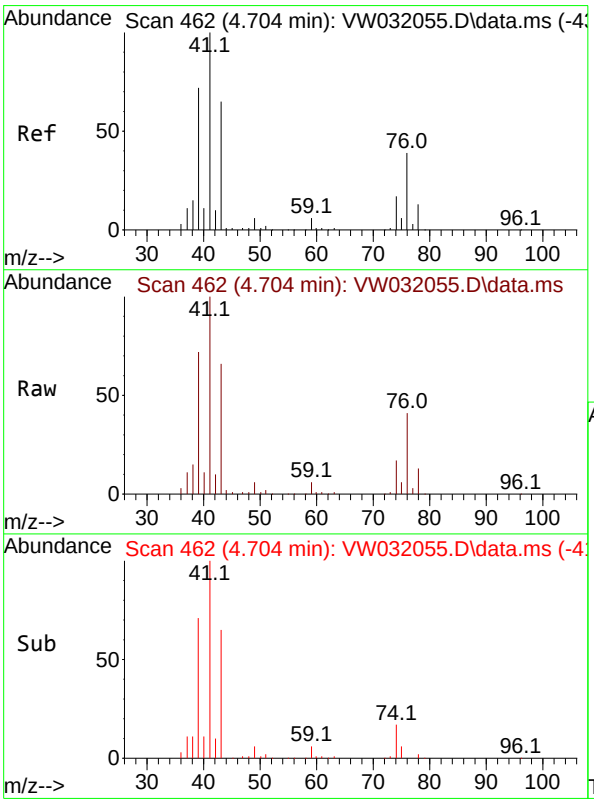
#13
Acrolein
Concen: 236.637 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 78858

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.4	83.2

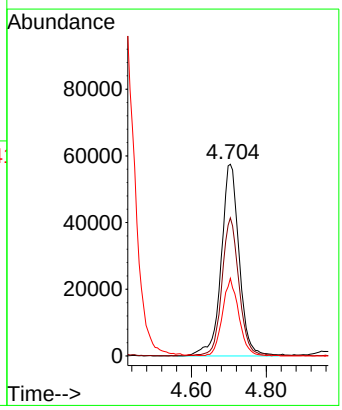


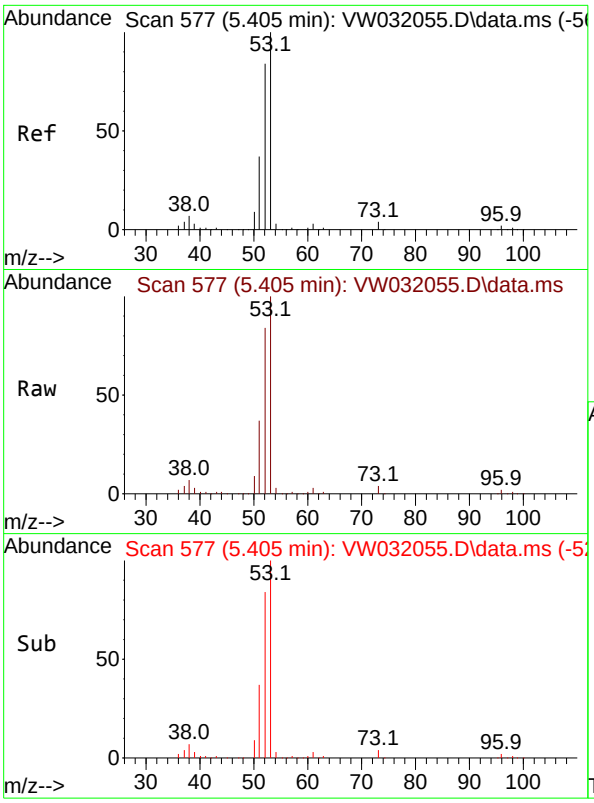


#14
Allyl chloride
Concen: 48.819 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 192434

Ion	Ratio	Lower	Upper
41	100		
39	68.1	54.5	81.7
76	36.6	29.3	43.9



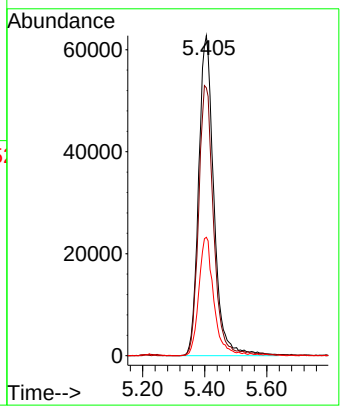


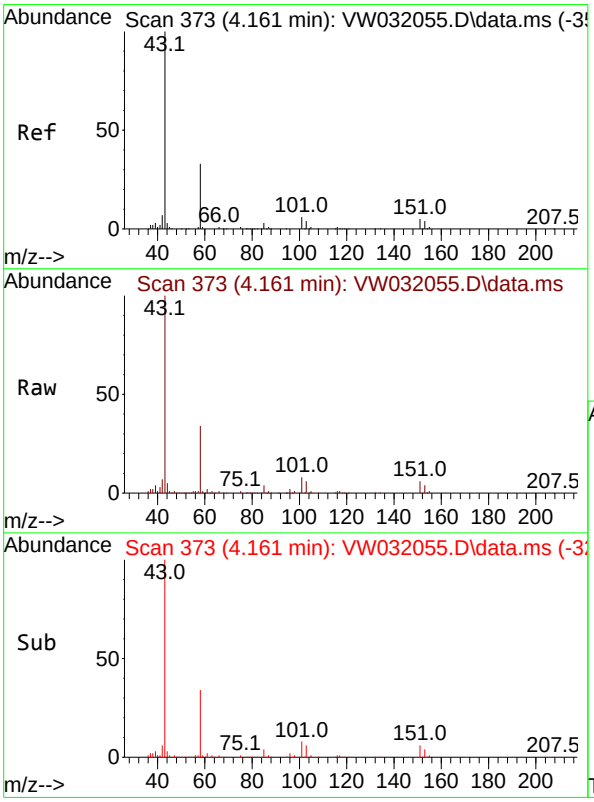
#15
Acrylonitrile
Concen: 262.963 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 213941

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	36.5	29.2	43.8

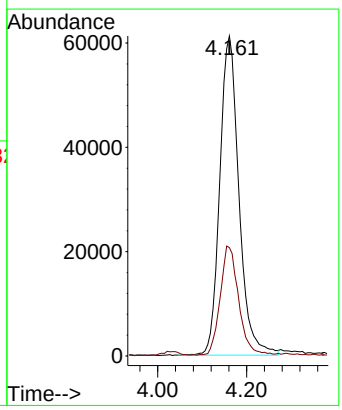


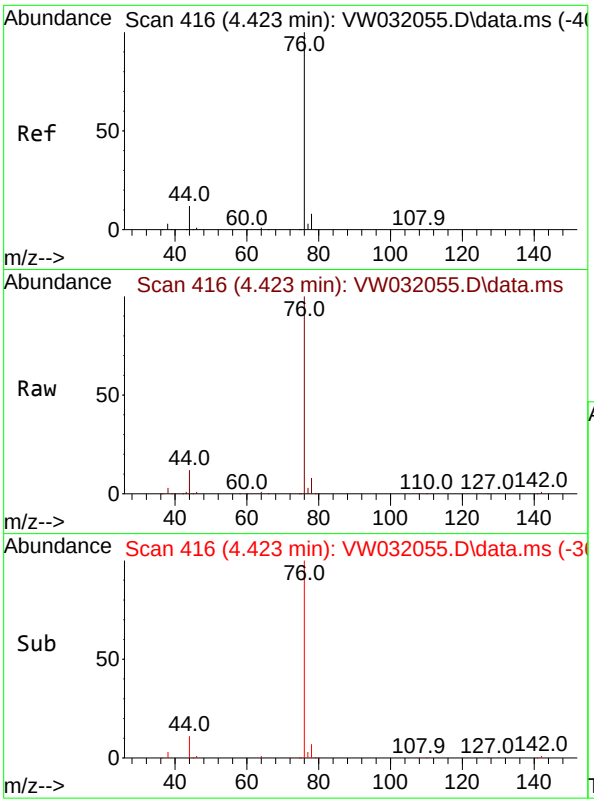


#16
Acetone
Concen: 244.127 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 182559

Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.6	39.8



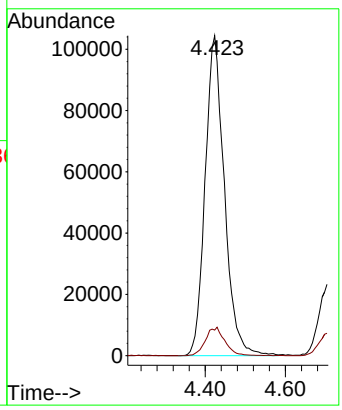


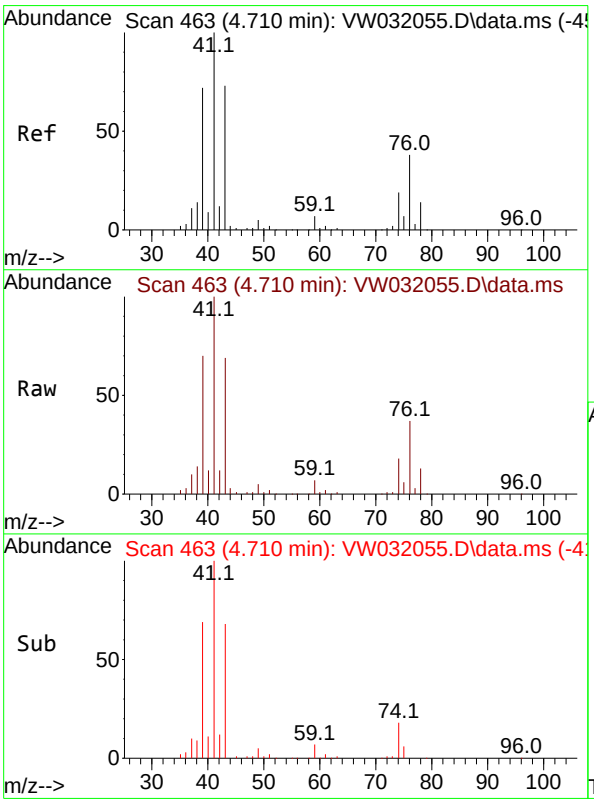
#17
Carbon Disulfide
Concen: 47.836 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 347752

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.4	9.6

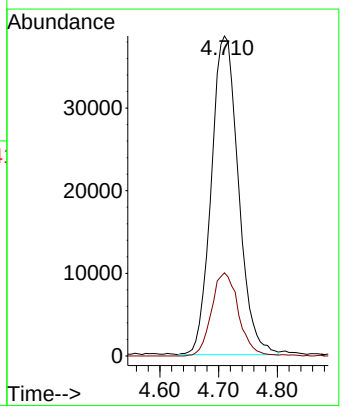


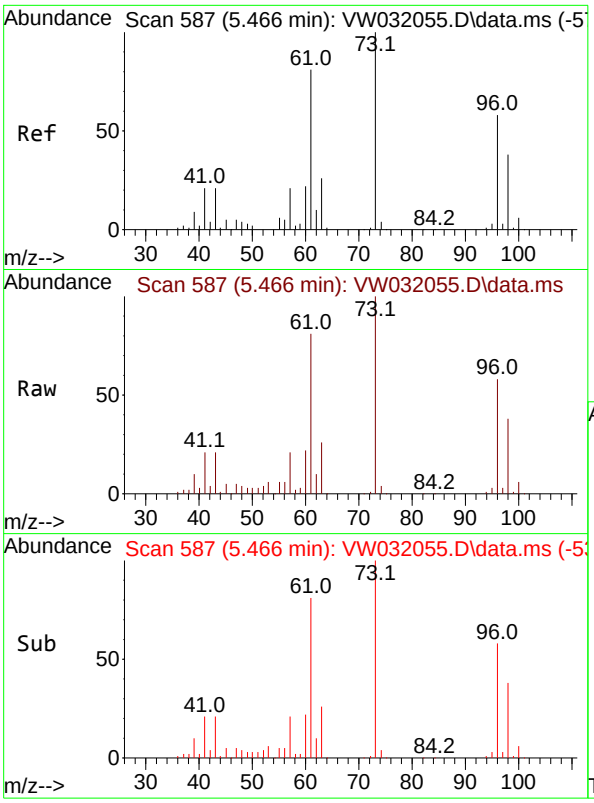


#18
Methyl Acetate
Concen: 52.361 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 123902

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.6	31.0



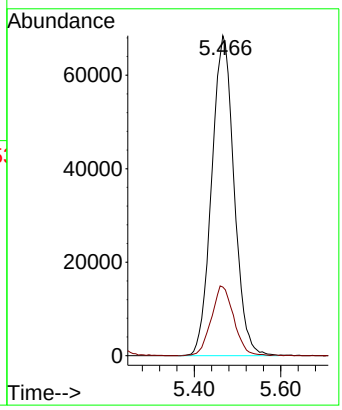


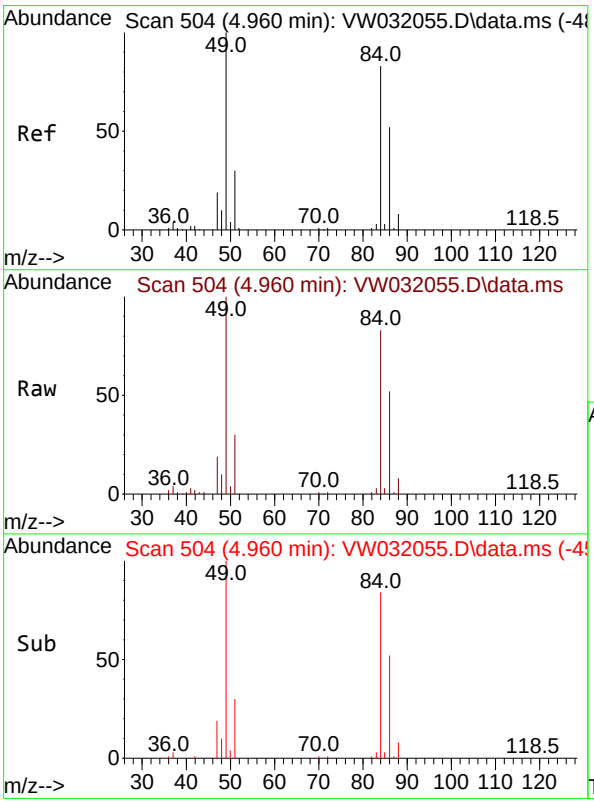
#19
Methyl tert-butyl Ether
Concen: 51.560 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 246045

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8

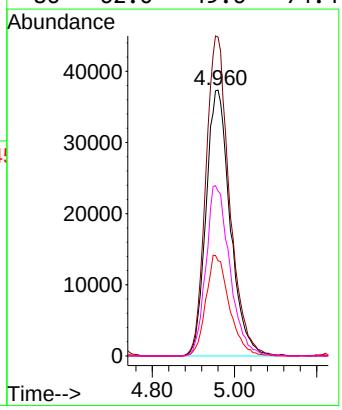


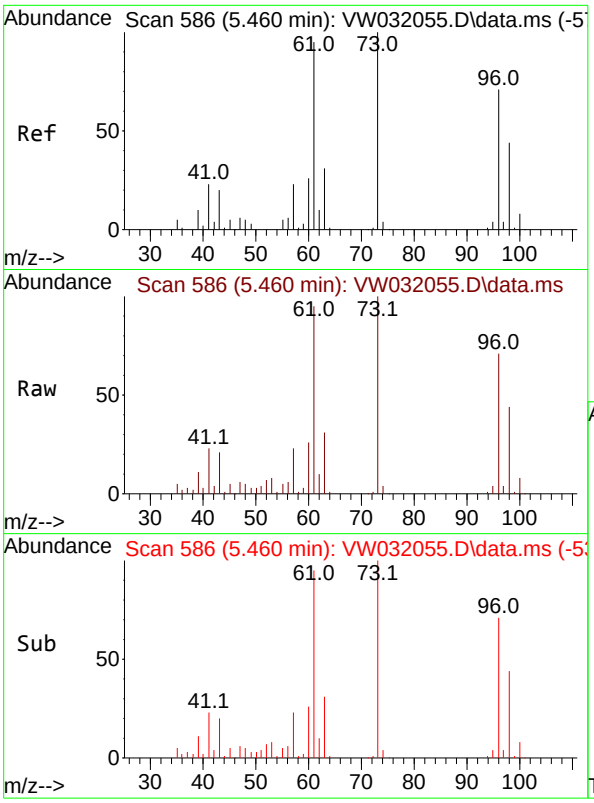


#20
Methylene Chloride
Concen: 44.016 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 84 Resp: 152186

Ion	Ratio	Lower	Upper
84	100		
49	119.9	95.9	143.9
51	35.8	28.6	43.0
86	62.0	49.6	74.4



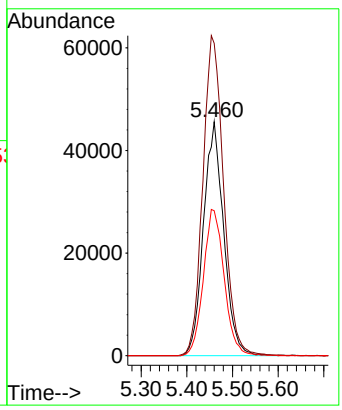


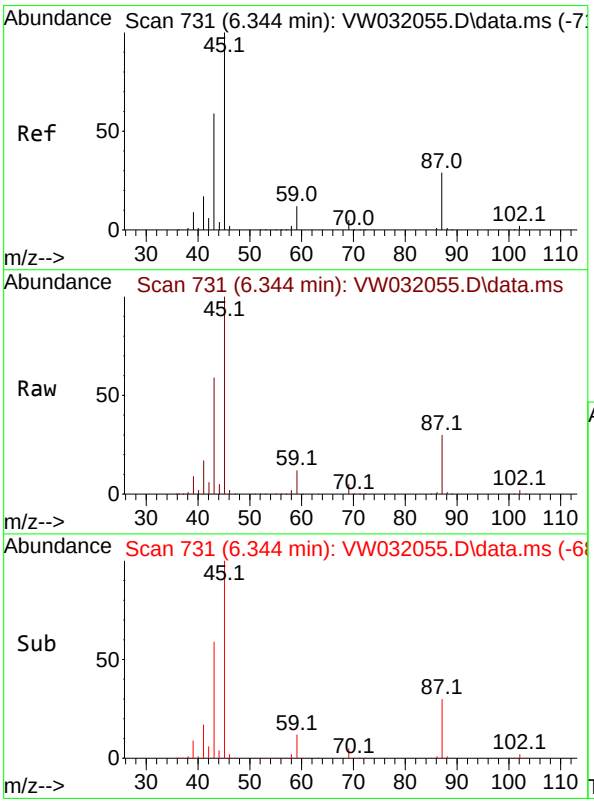
#21
trans-1,2-Dichloroethene
Concen: 48.707 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 139994

Ion	Ratio	Lower	Upper
96	100		
61	133.5	106.8	160.2
98	62.0	49.6	74.4

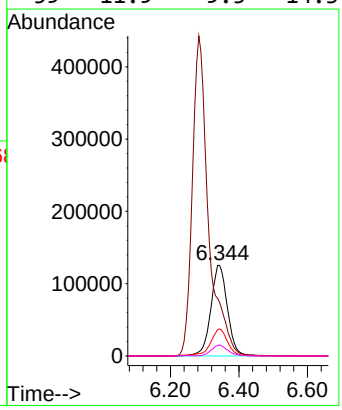


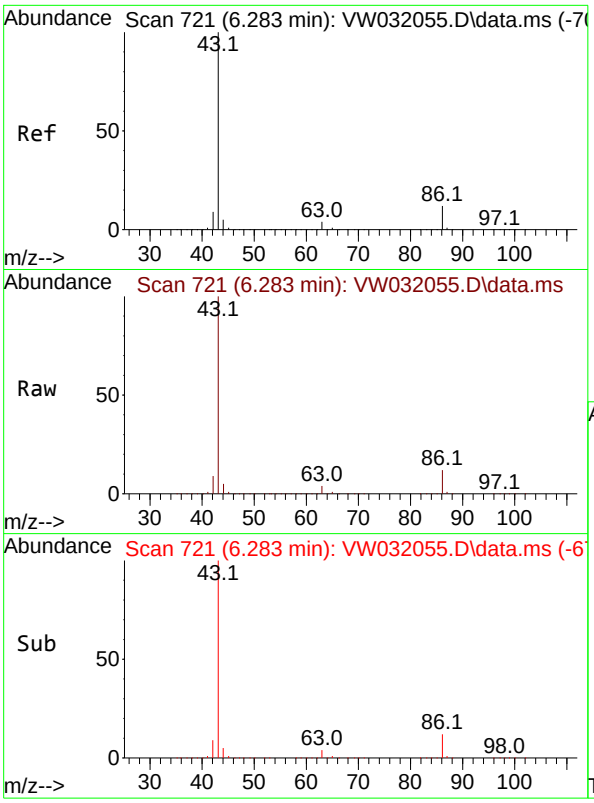


#22
Diisopropyl ether
Concen: 50.751 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 45 Resp: 421731

Ion	Ratio	Lower	Upper
45	100		
43	58.7	47.0	70.4
87	29.8	23.8	35.8
59	11.9	9.5	14.3



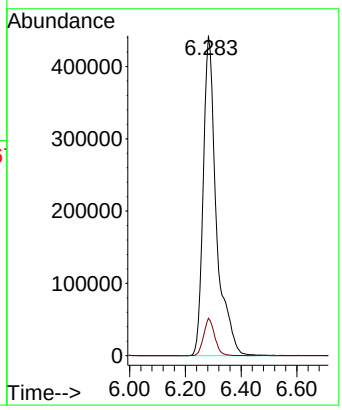


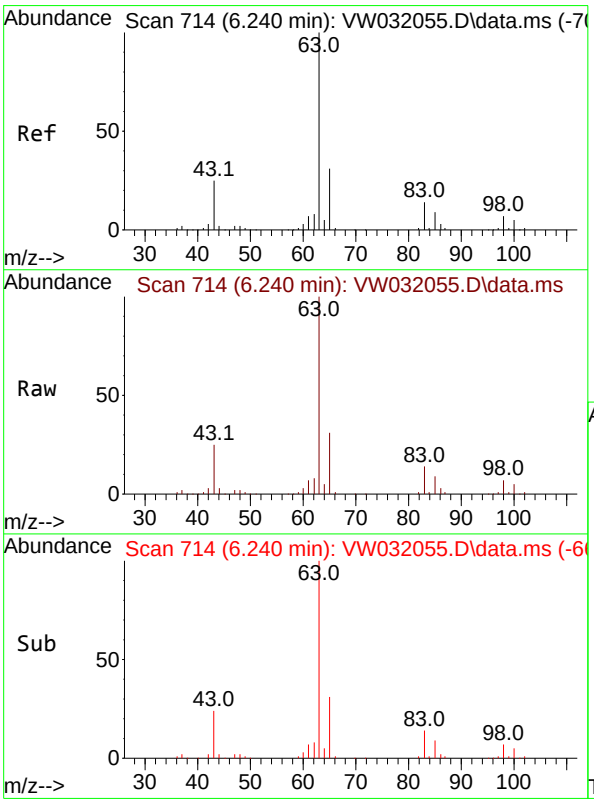
#23
Vinyl Acetate
Concen: 265.873 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1450553

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

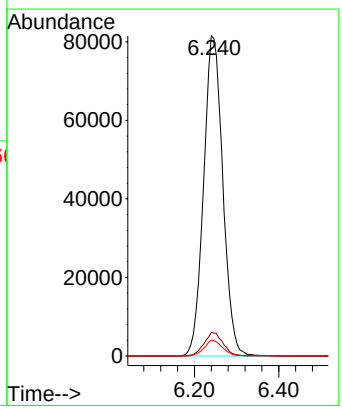


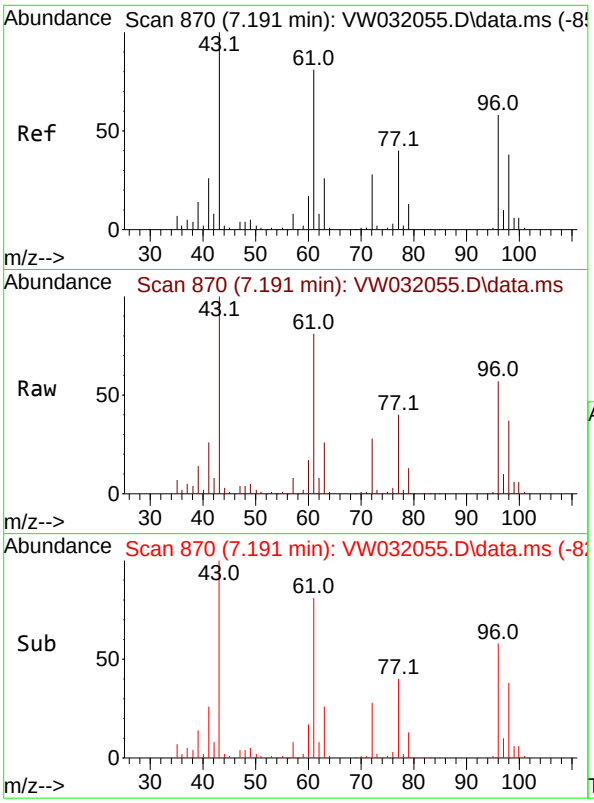


#24
1,1-Dichloroethane
Concen: 48.646 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 258279

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.7	11.1
100	4.9	2.5	7.4



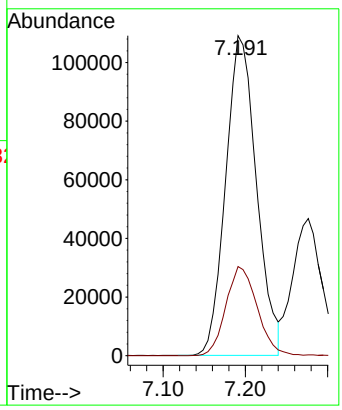


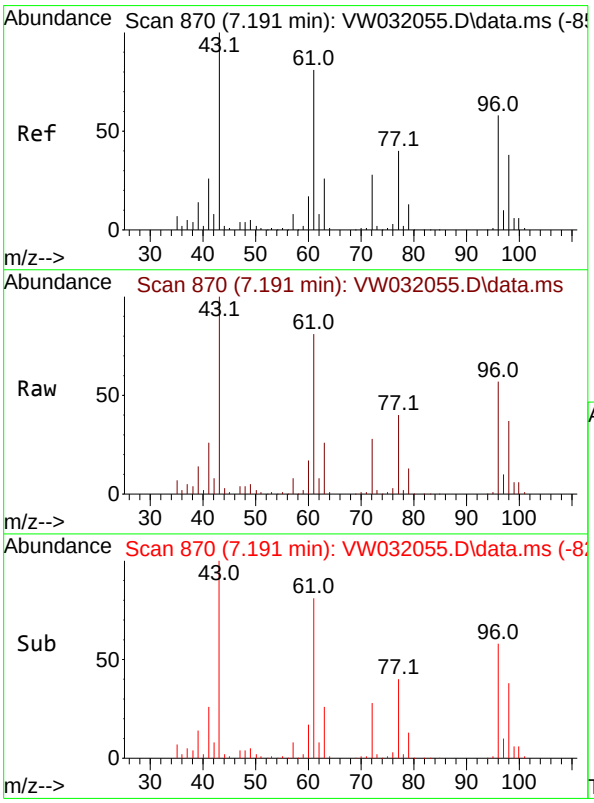
#25
2-Butanone
Concen: 267.883 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 284711

Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.3	33.5

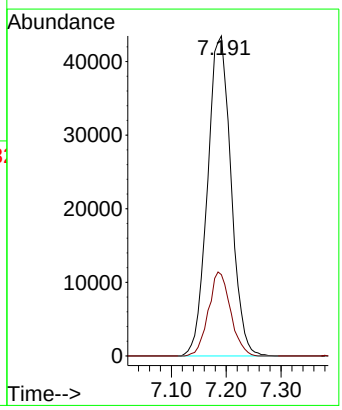


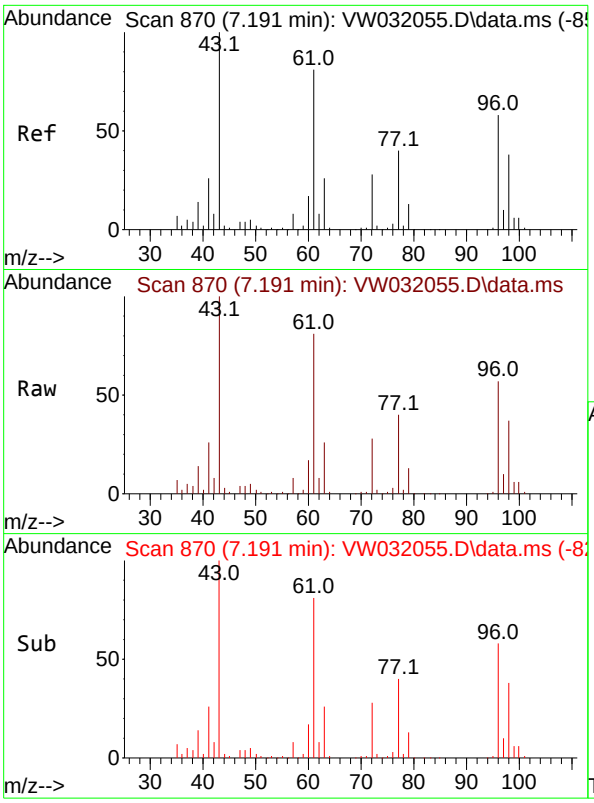


#26
2,2-Dichloropropane
Concen: 48.578 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 77 Resp: 129390

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.3	36.9



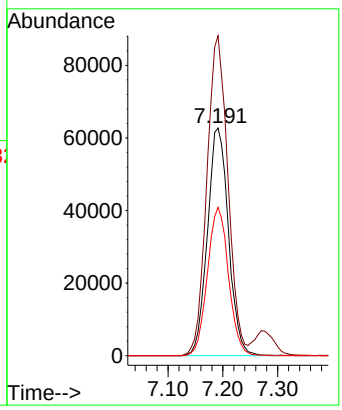


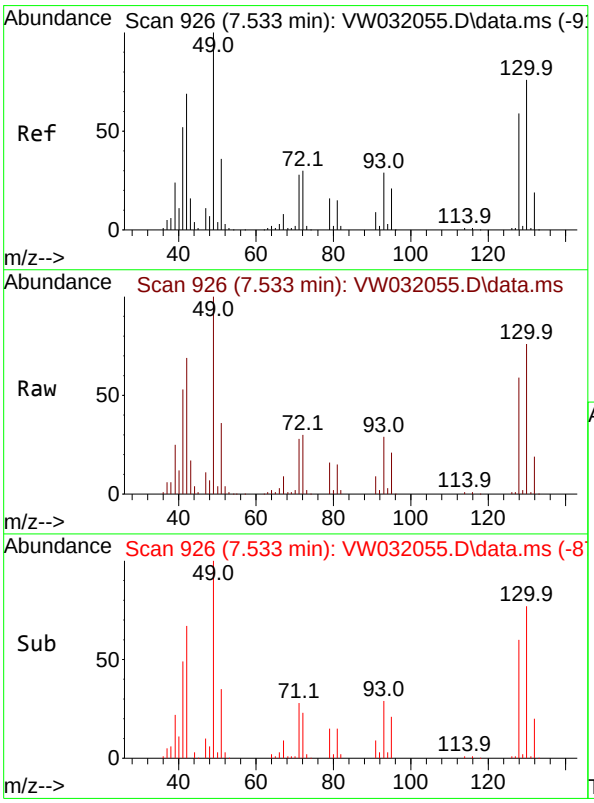
#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 167240

Ion	Ratio	Lower	Upper
96	100		
61	140.6	0.0	281.2
98	65.4	0.0	130.8

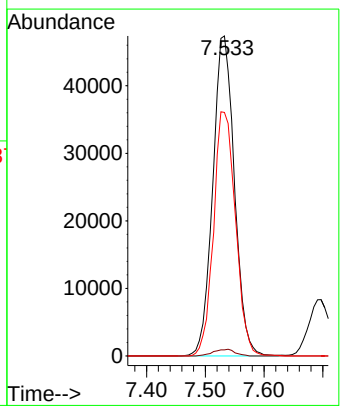


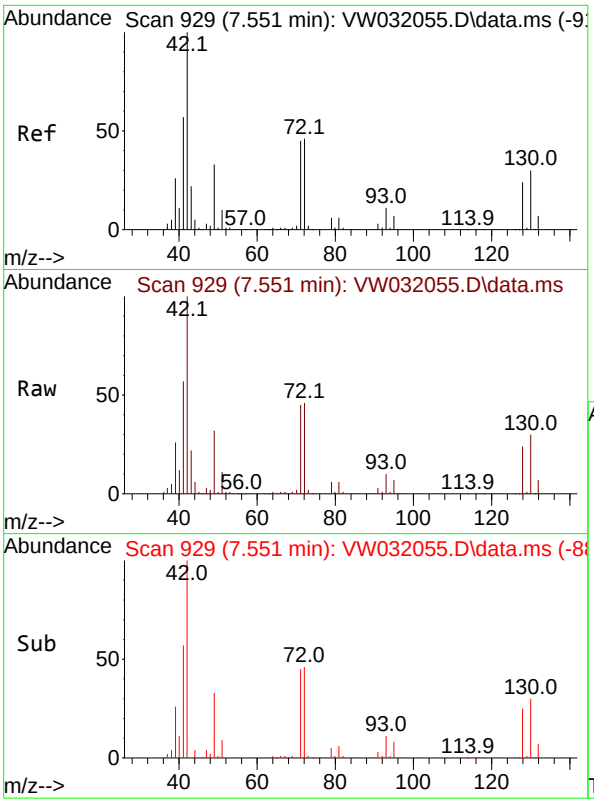


#28
Bromochloromethane
Concen: 50.191 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 49 Resp: 121266

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.4	61.9	92.9



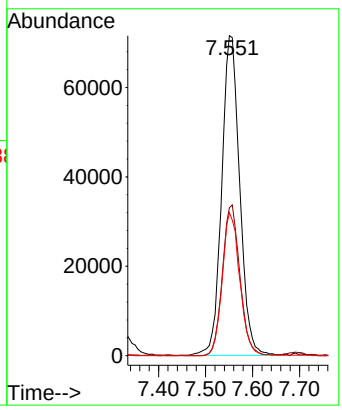


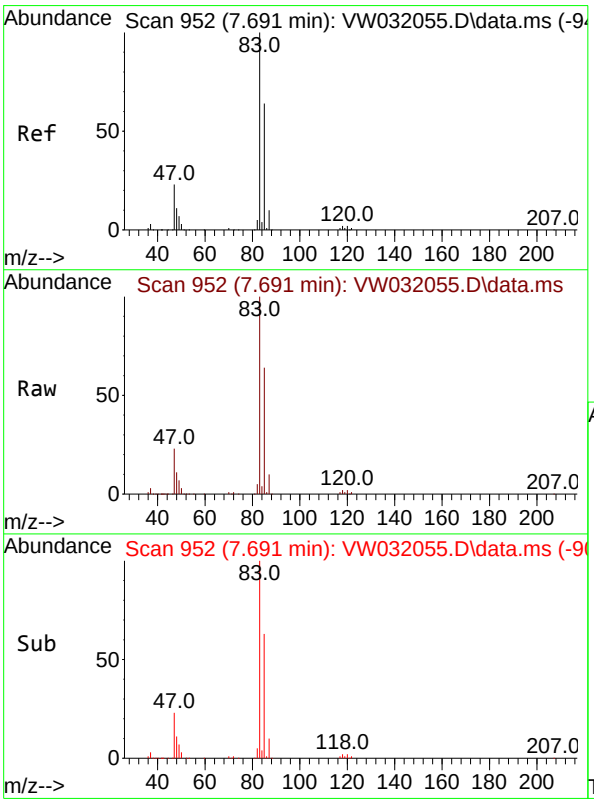
#29
Tetrahydrofuran
Concen: 272.100 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 190719

Ion	Ratio	Lower	Upper
42	100		
72	45.8	36.6	55.0
71	43.4	34.7	52.1

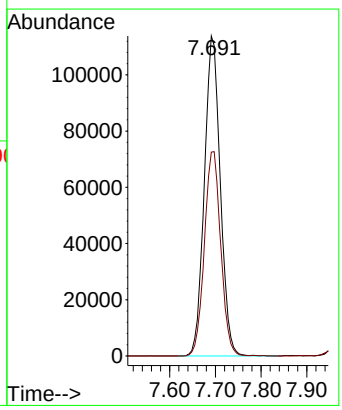


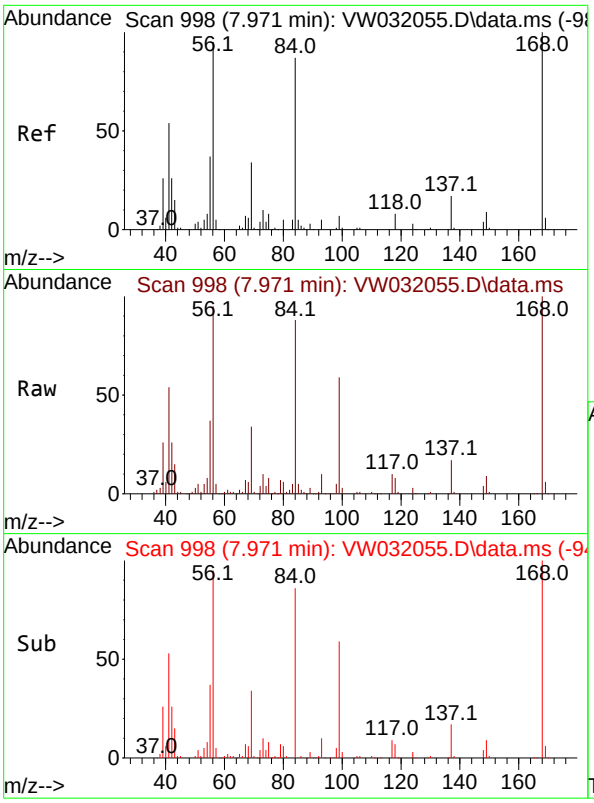


#30
Chloroform
Concen: 49.018 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 275905

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4



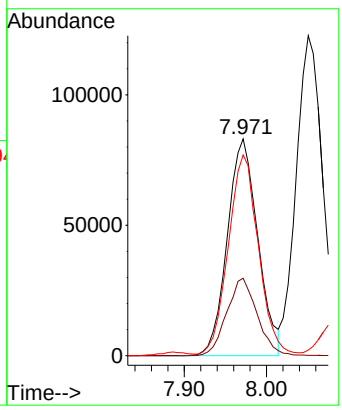


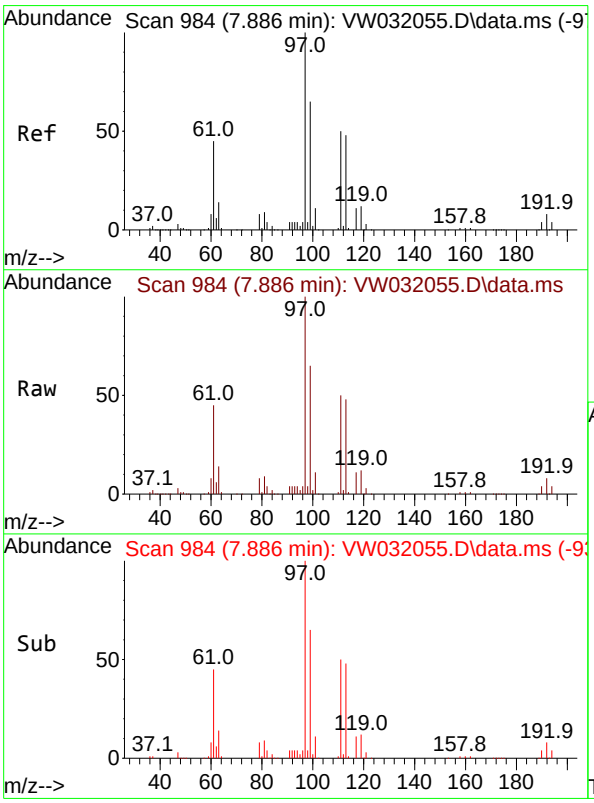
#31
Cyclohexane
Concen: 46.622 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 214597

Ion	Ratio	Lower	Upper
56	100		
69	35.7	28.6	42.8
84	91.2	73.0	109.4

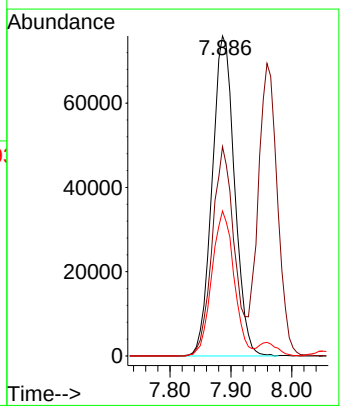


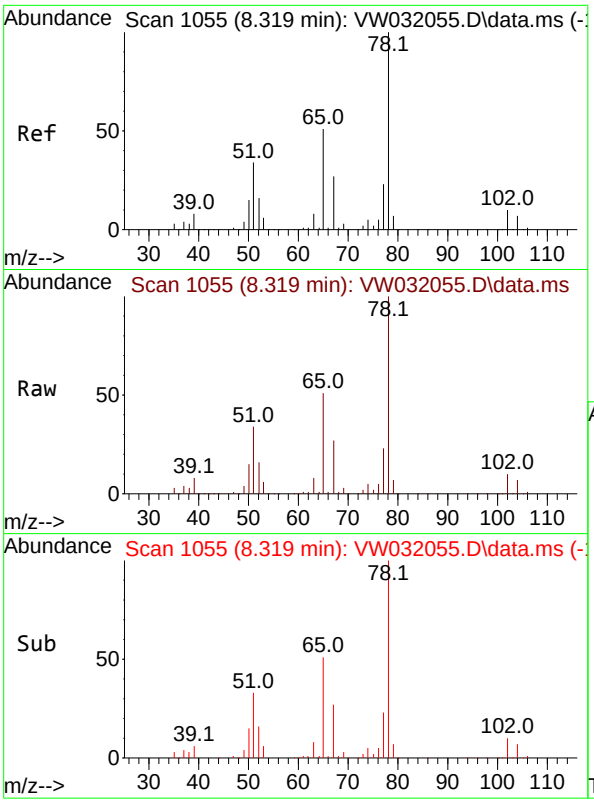


#32
1,1,1-Trichloroethane
Concen: 47.617 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 97 Resp: 194676

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.8
61	44.9	35.9	53.9



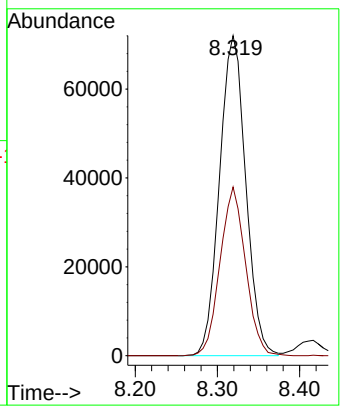


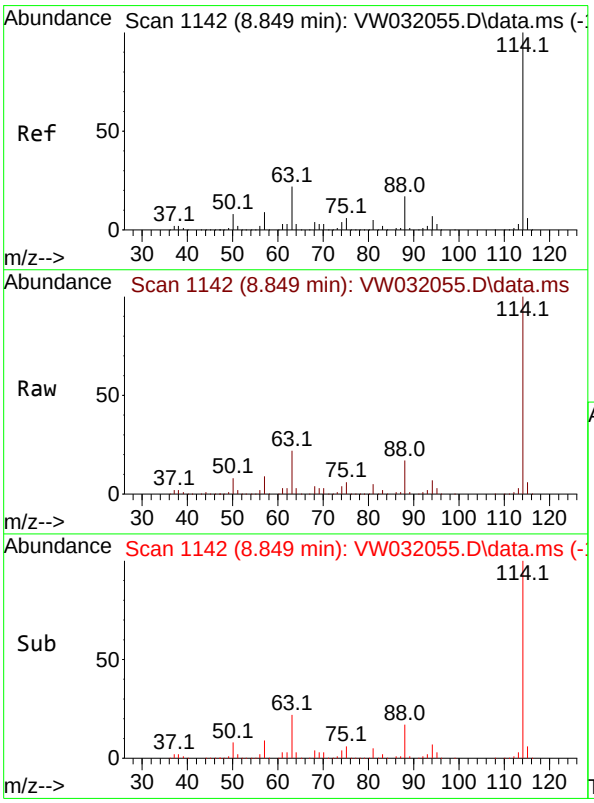
#33
1,2-Dichloroethane-d4
Concen: 49.529 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 159972

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.4

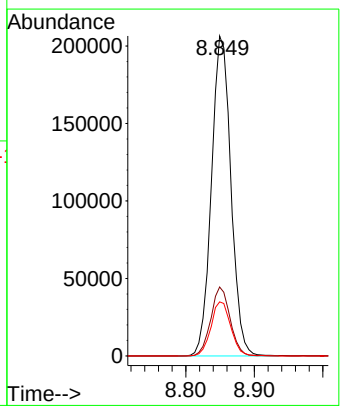


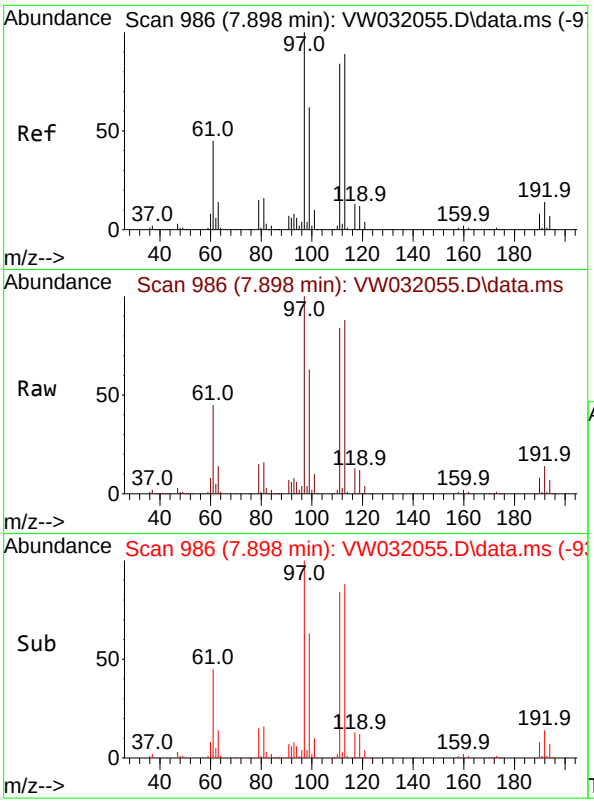


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:114 Resp: 406973

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.0
88	16.9	0.0	33.8



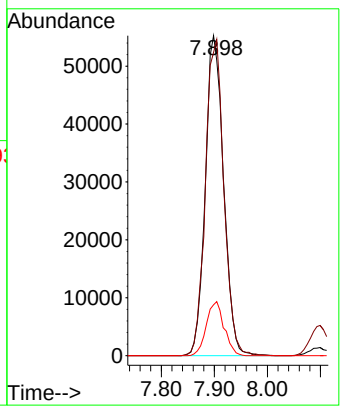


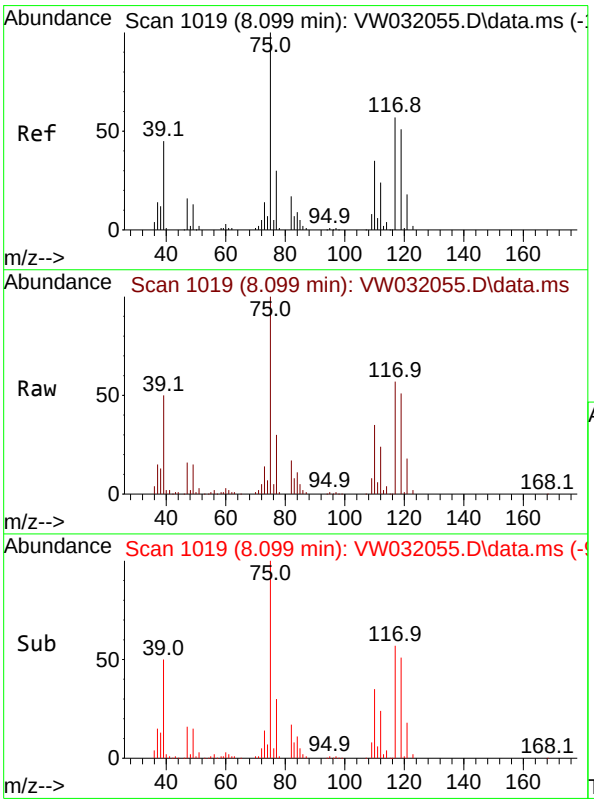
#35
Dibromofluoromethane
Concen: 50.279 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 132195

Ion	Ratio	Lower	Upper
113	100		
111	100.1	80.1	120.1
192	16.4	13.1	19.7

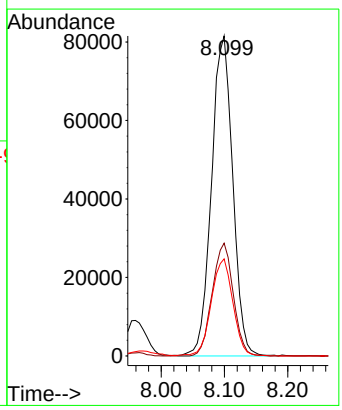


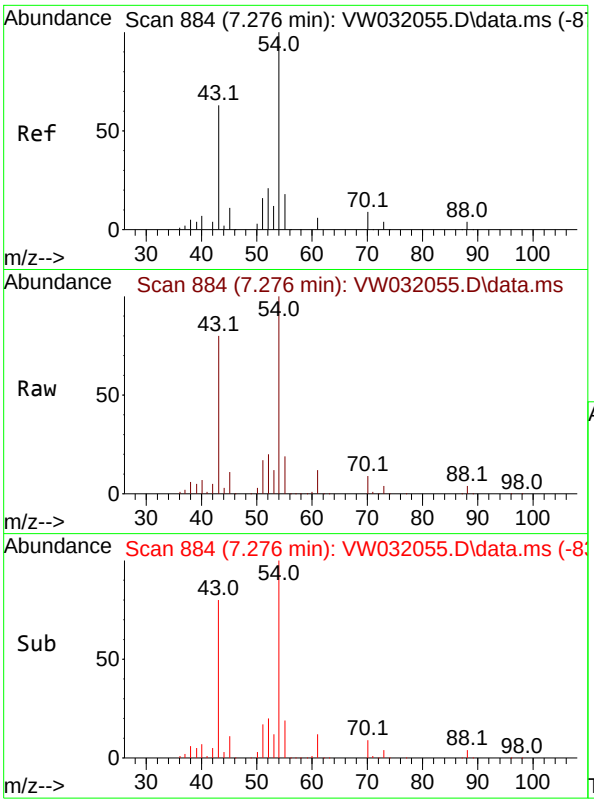


#36
1,1-Dichloropropene
Concen: 51.274 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 190046

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.4	52.2
77	30.9	24.7	37.1



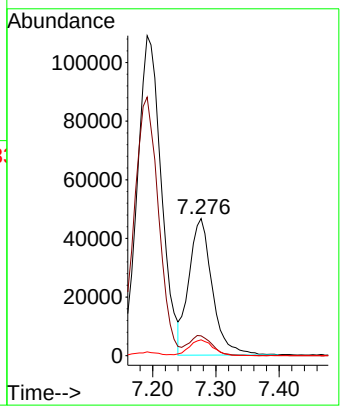


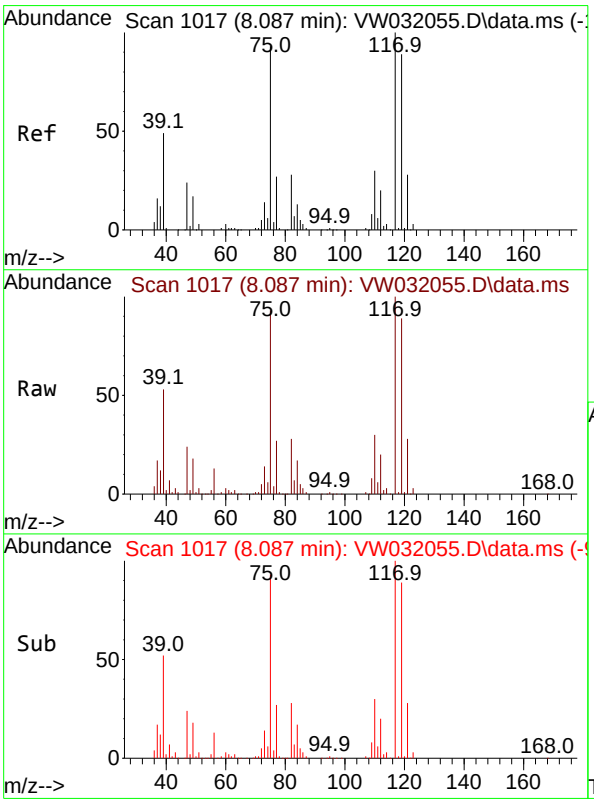
#37
Ethyl Acetate
Concen: 54.829 ug/l
RT: 7.276 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 119689

Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.8	17.6
70	11.7	9.4	14.0

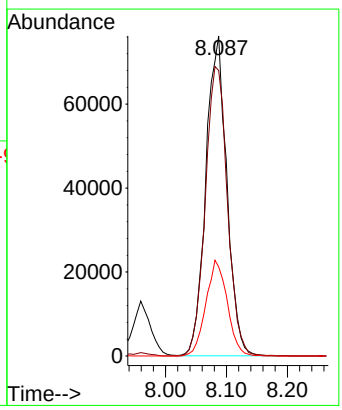


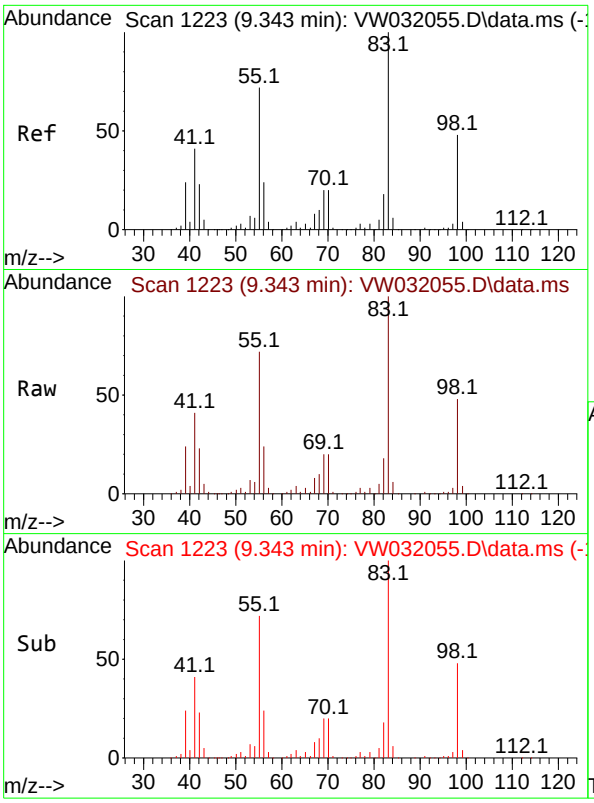


#38
Carbon Tetrachloride
Concen: 51.000 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 182422

Ion	Ratio	Lower	Upper
117	100		
119	89.3	71.4	107.2
121	27.9	22.3	33.5



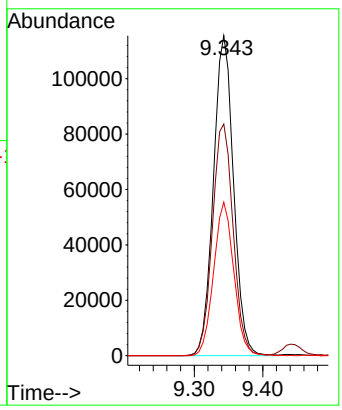


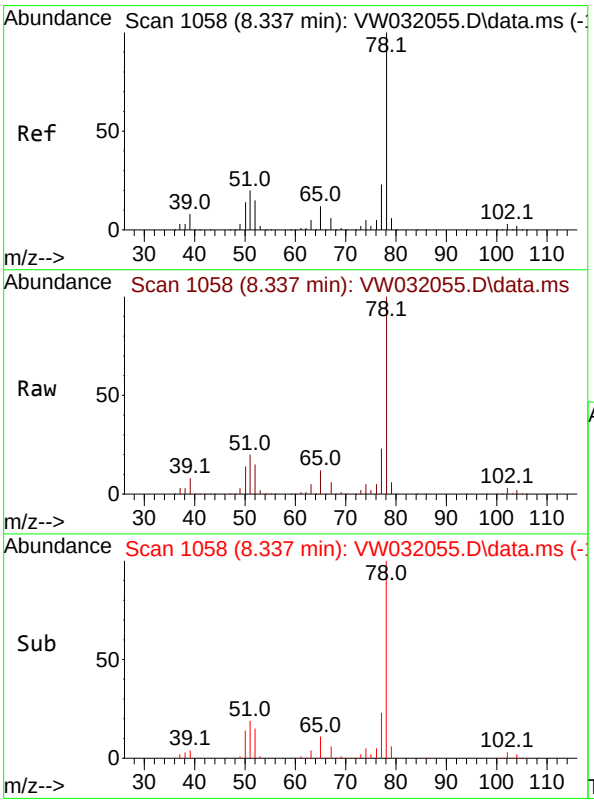
#39
Methylcyclohexane
Concen: 52.093 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 235341

Ion	Ratio	Lower	Upper
83	100		
55	72.4	57.9	86.9
98	47.9	38.3	57.5

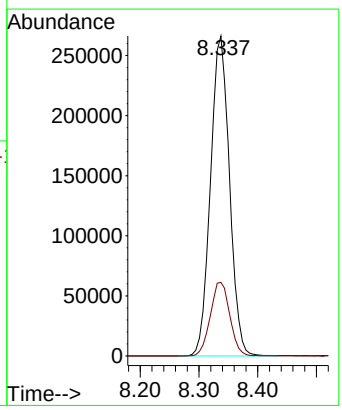


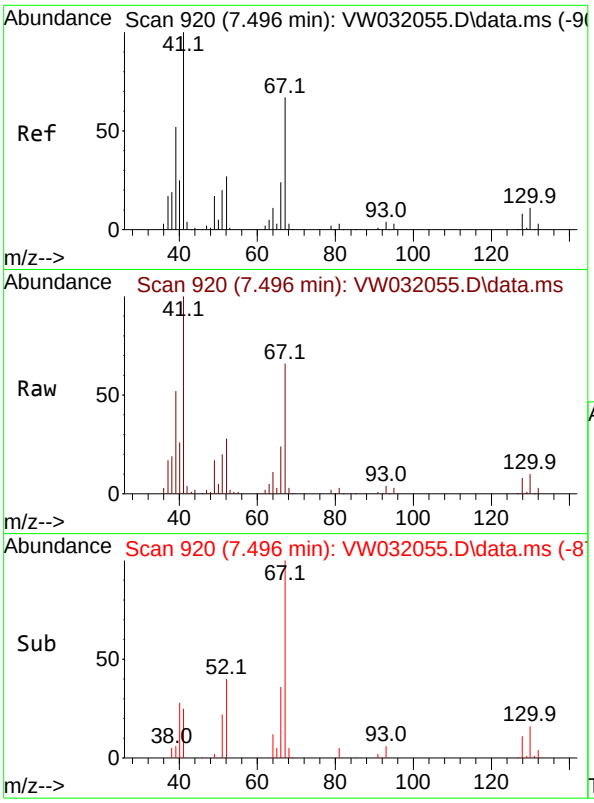


#40
Benzene
Concen: 51.883 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 78 Resp: 597760

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.4	27.6



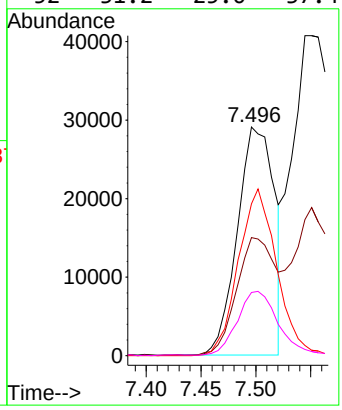


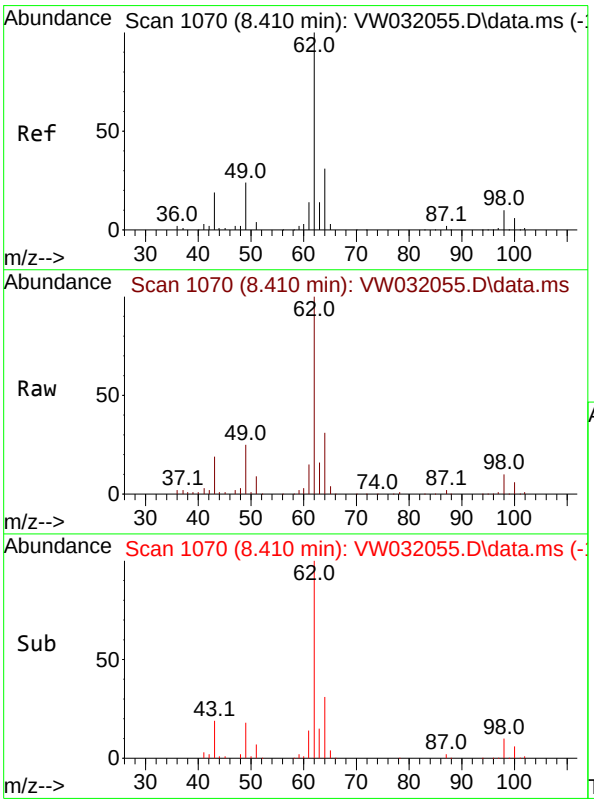
#41
Methacrylonitrile
Concen: 55.039 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 68136

Ion	Ratio	Lower	Upper
41	100		
39	53.2	42.6	63.8
67	76.2	61.0	91.4
52	31.2	25.0	37.4

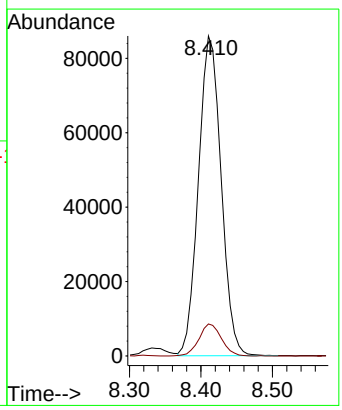


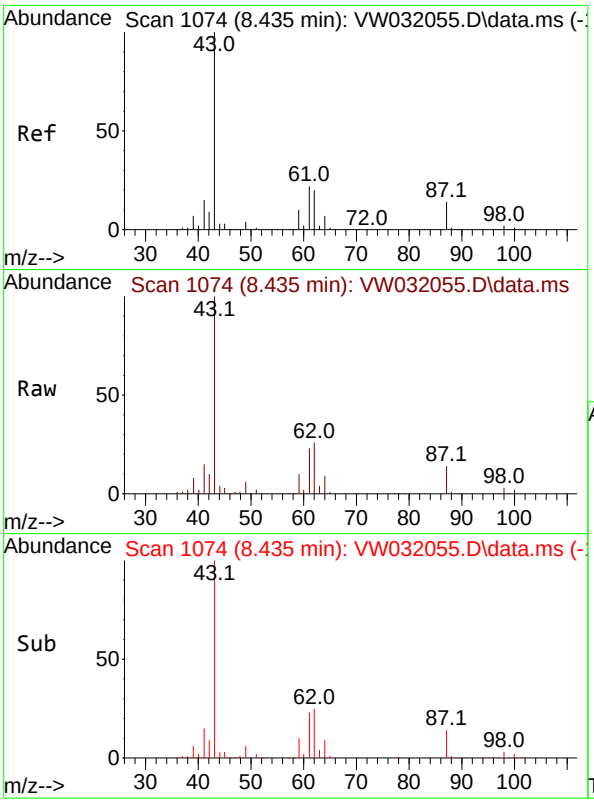


#42
1,2-Dichloroethane
Concen: 51.471 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 189755

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8



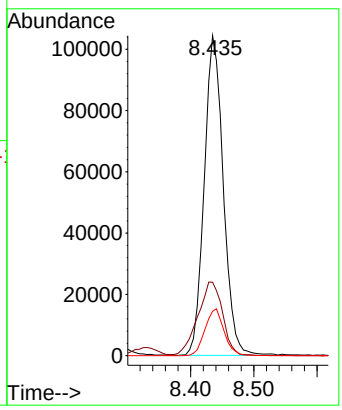


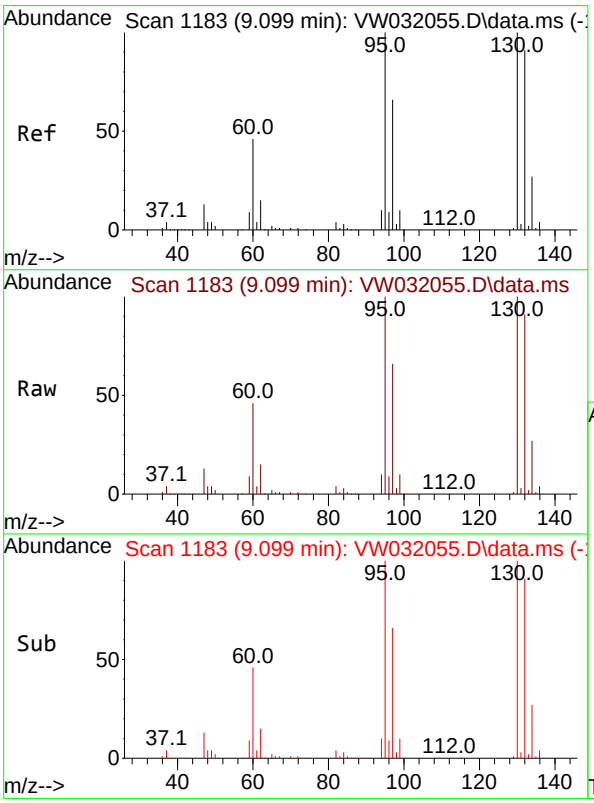
#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 219064

Ion	Ratio	Lower	Upper
43	100		
61	29.8	23.8	35.8
87	14.6	11.7	17.5

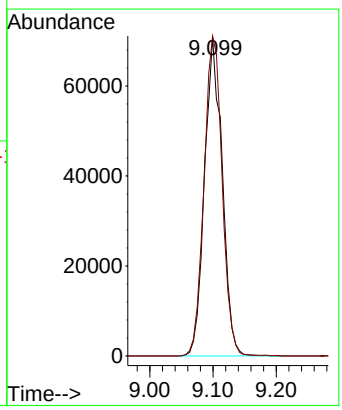


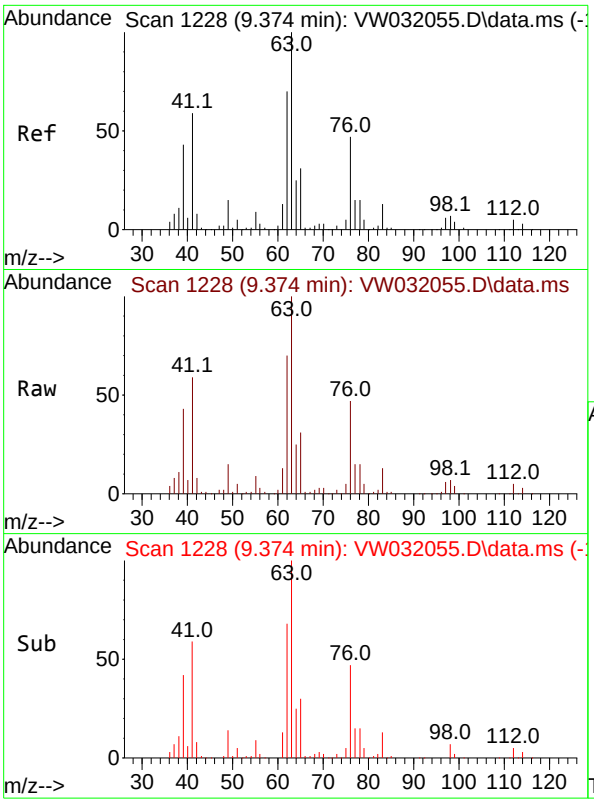


#44
Trichloroethene
Concen: 50.264 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:130 Resp: 137910

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	200.6



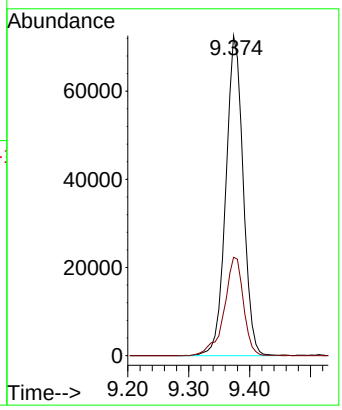


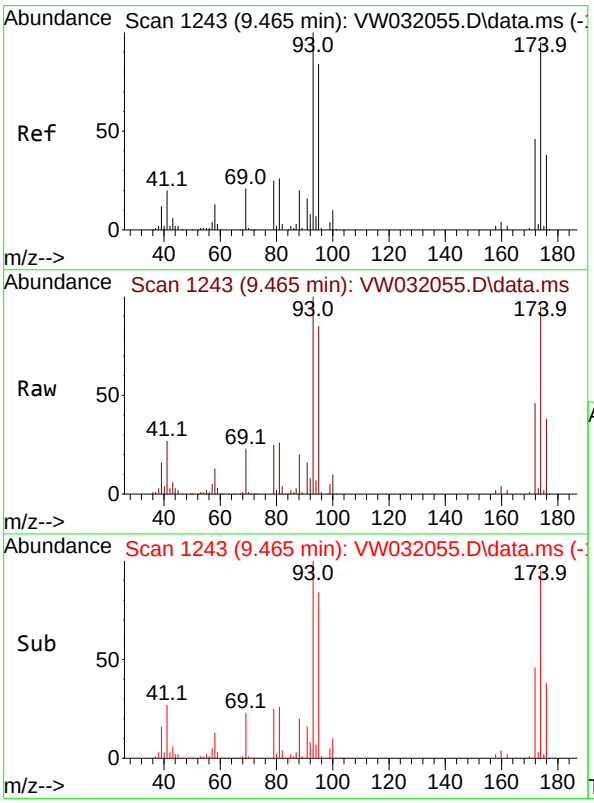
#45
1,2-Dichloropropane
Concen: 51.537 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 143446

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8

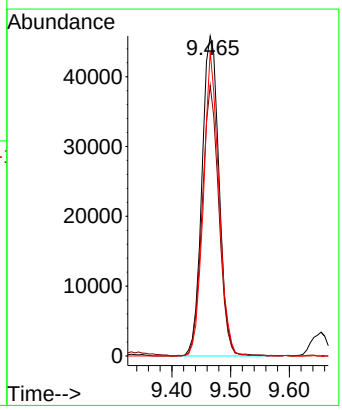


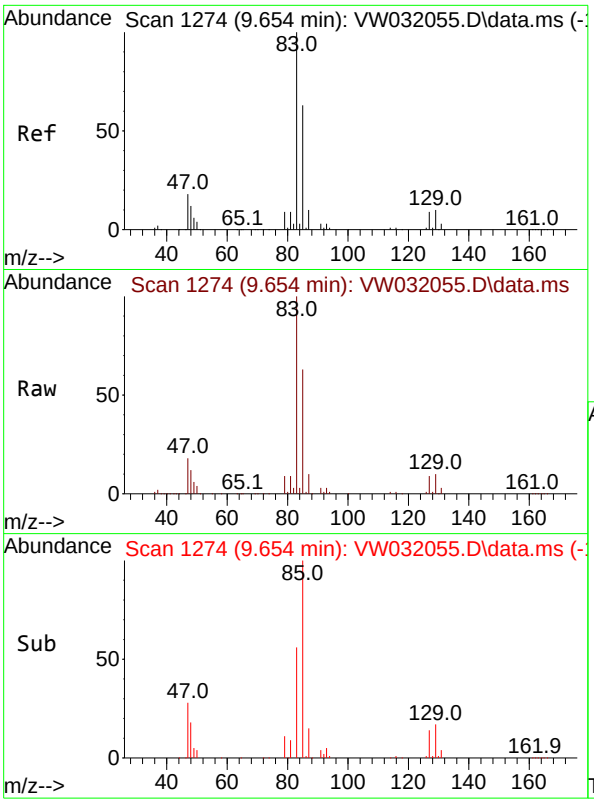


#46
Dibromomethane
Concen: 51.770 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 93 Resp: 93001

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.3	97.9
174	85.7	68.6	102.8



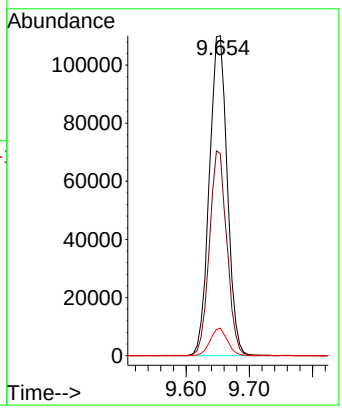


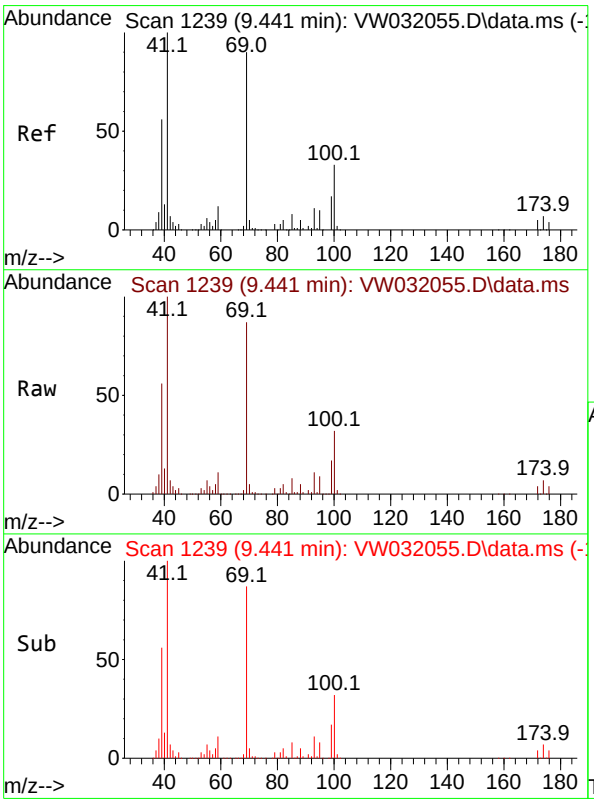
#47
Bromodichloromethane
Concen: 52.307 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 216521

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.6	6.9	10.3

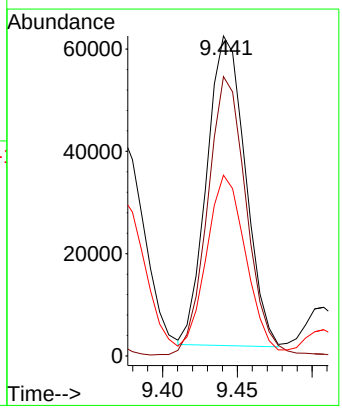


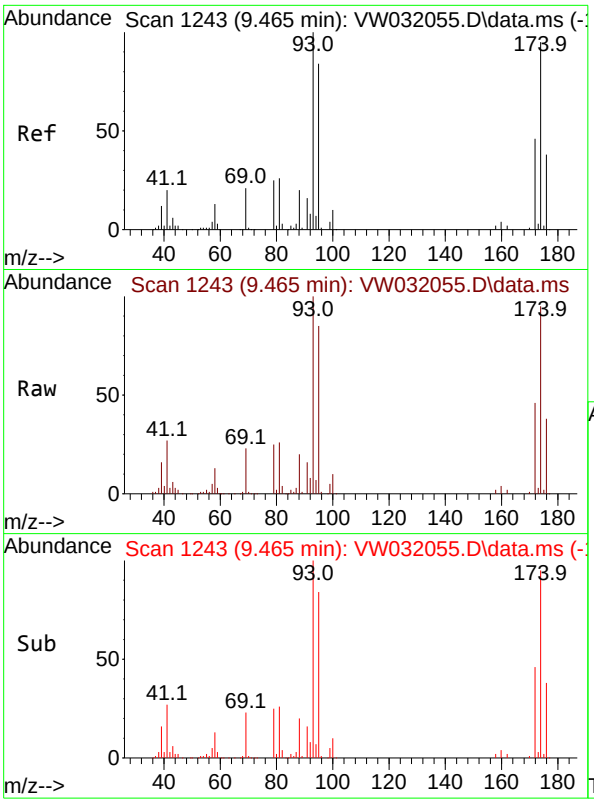


#48
Methyl methacrylate
Concen: 55.849 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 108287

Ion	Ratio	Lower	Upper
41	100		
69	91.3	73.0	109.6
39	56.2	45.0	67.4



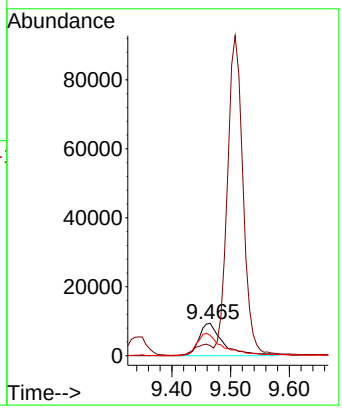


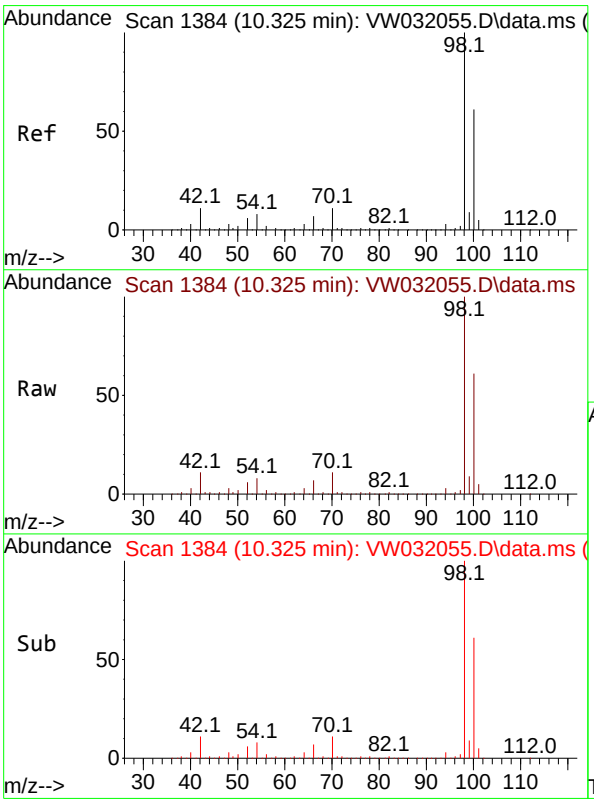
#49
1,4-Dioxane
Concen: 1144.321 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 26579

Ion	Ratio	Lower	Upper
88	100		
43	25.7	20.6	30.8
58	75.5	60.4	90.6

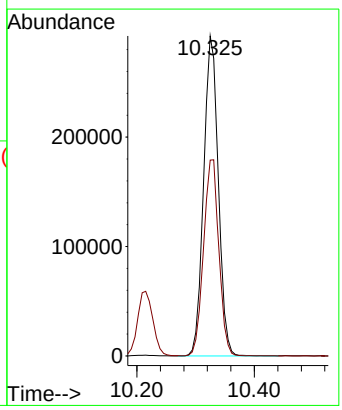


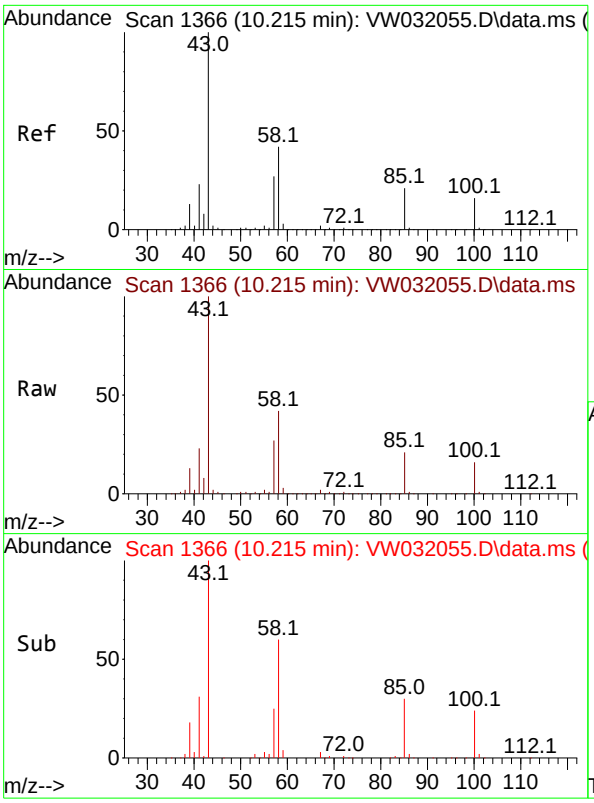


#50
Toluene-d8
Concen: 52.098 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 98 Resp: 506634

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.1	76.7



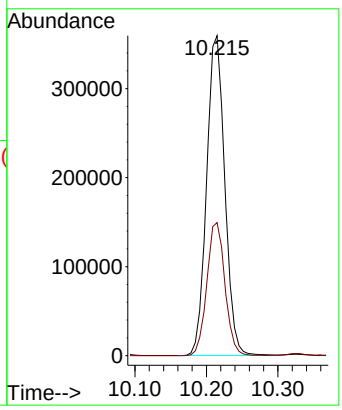


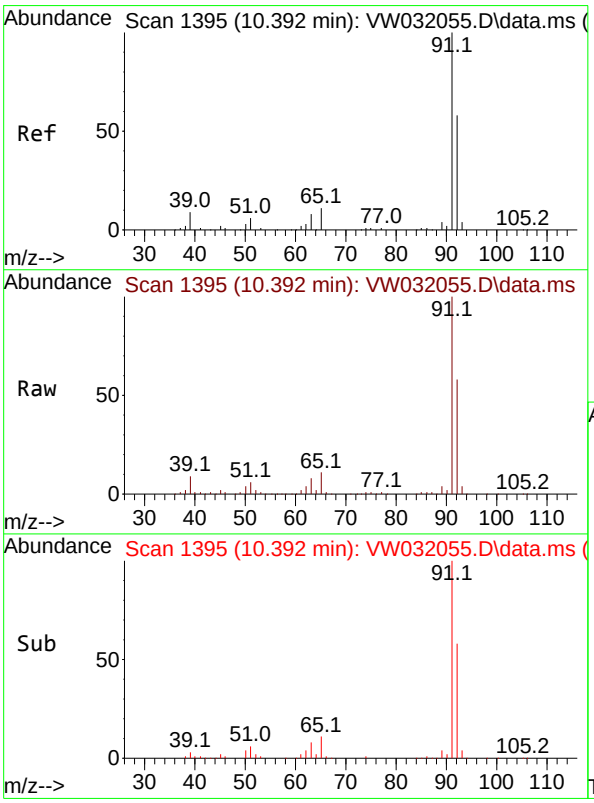
#51
4-Methyl-2-Pentanone
Concen: 280.194 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 635174

Ion	Ratio	Lower	Upper
43	100		
58	41.4	33.1	49.7

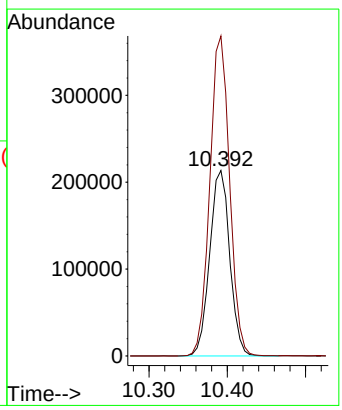


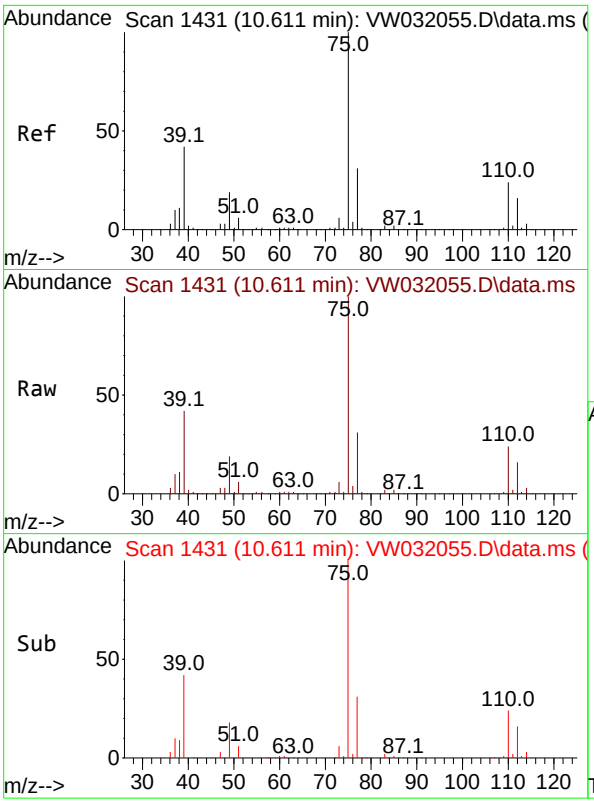


#52
Toluene
Concen: 52.258 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 92 Resp: 379230

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5



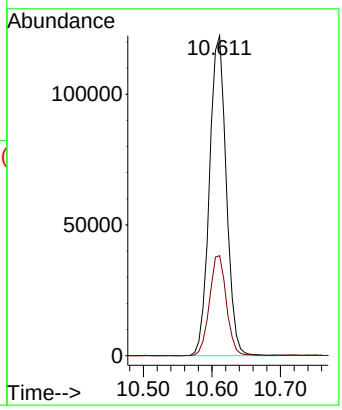


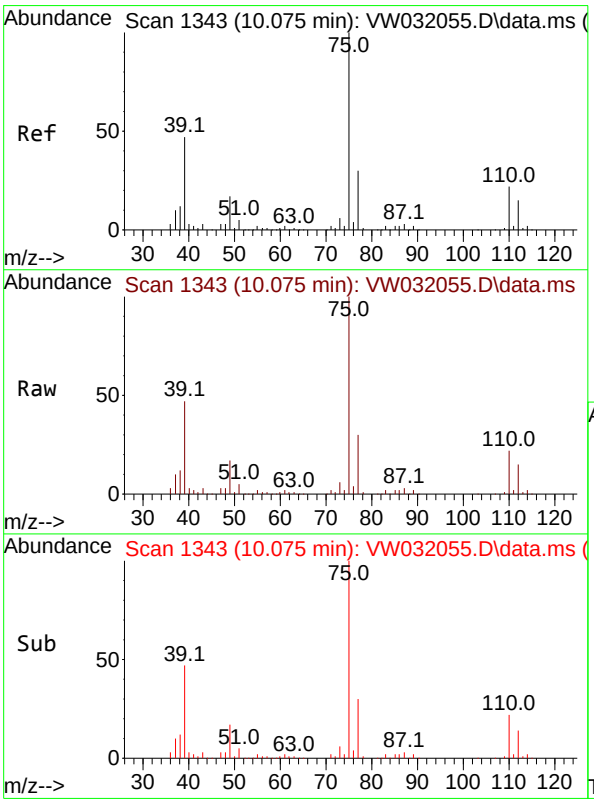
#53
t-1,3-Dichloropropene
Concen: 54.035 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 209555

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

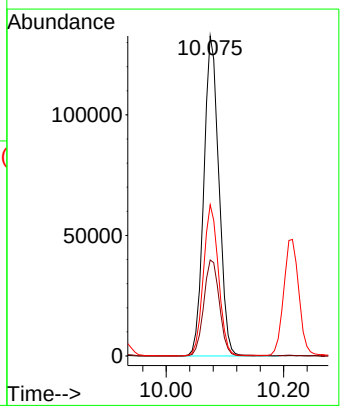


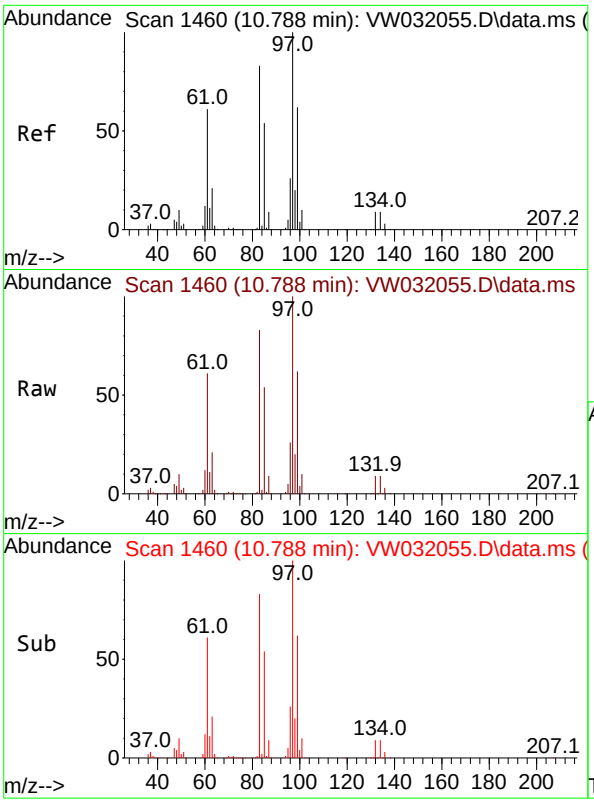


#54
cis-1,3-Dichloropropene
Concen: 53.744 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 236454

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.0	36.0
39	47.3	37.8	56.8



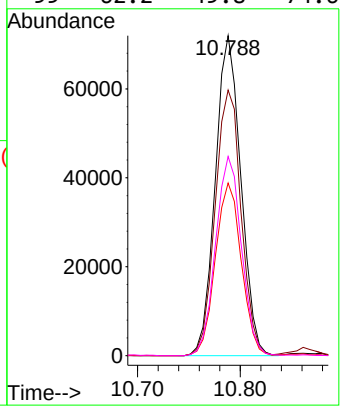


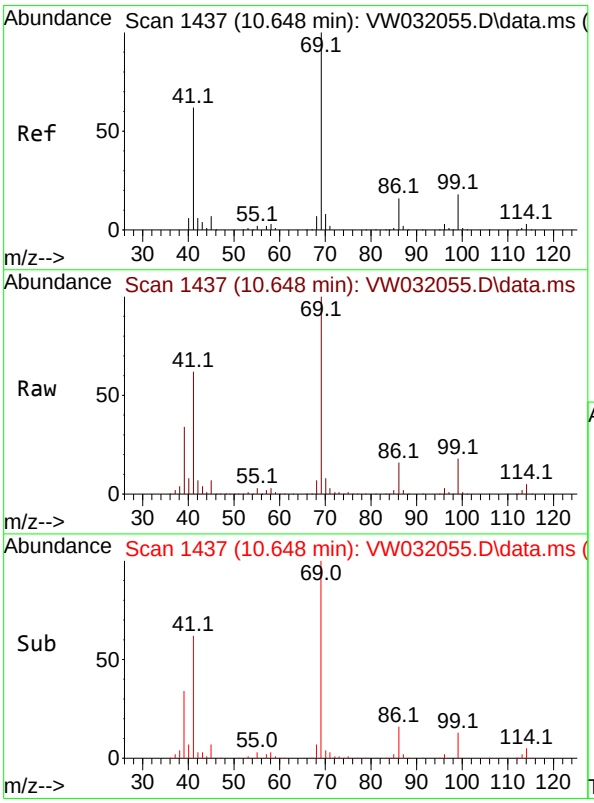
#55
1,1,2-Trichloroethane
Concen: 52.088 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 124341

Ion	Ratio	Lower	Upper
97	100		
83	83.0	66.4	99.6
85	53.9	43.1	64.7
99	62.2	49.8	74.6

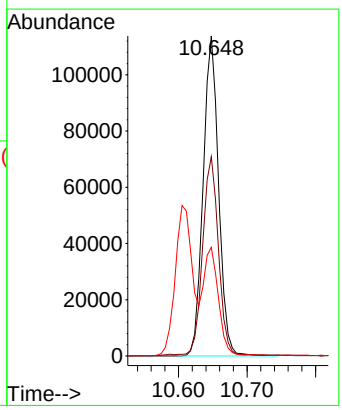


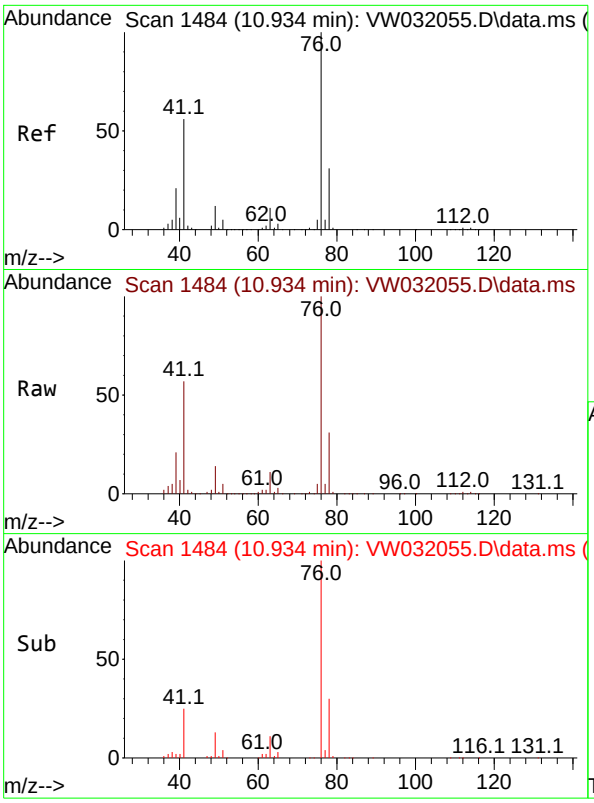


#56
Ethyl methacrylate
Concen: 56.027 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 69 Resp: 178974

Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.2	76.8
39	31.7	25.4	38.0



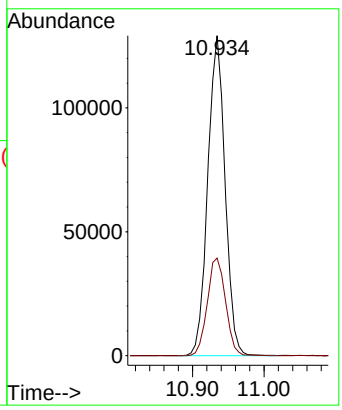


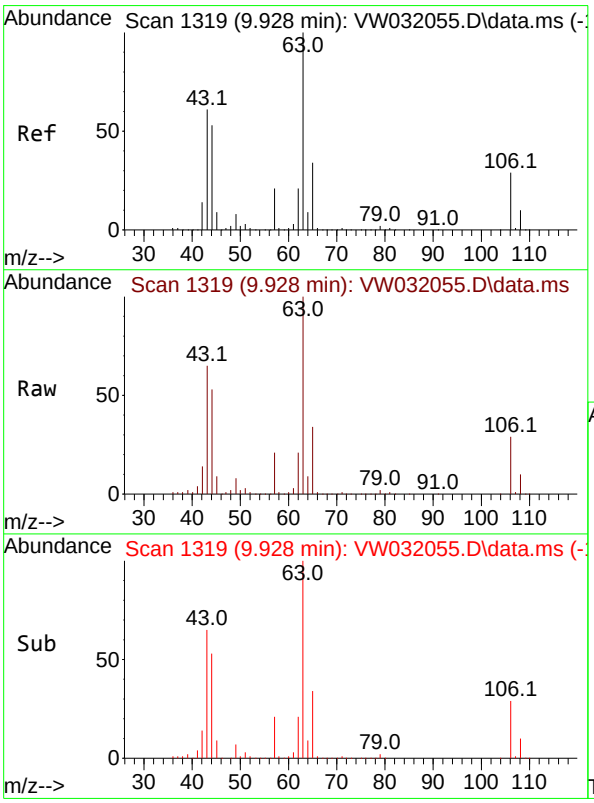
#57
1,3-Dichloropropane
Concen: 52.084 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 216719

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

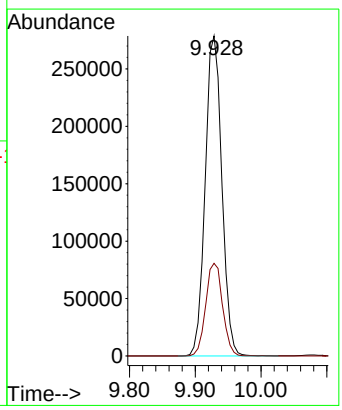


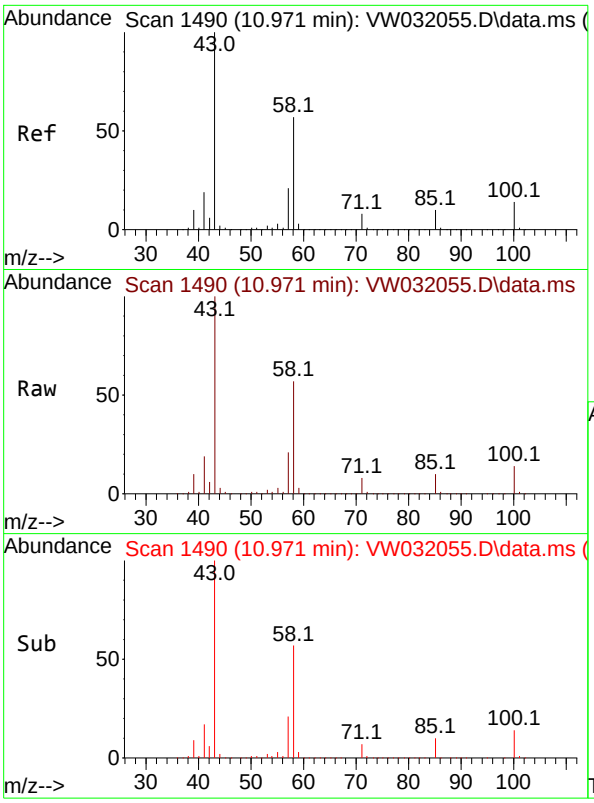


#58
2-Chloroethyl Vinyl ether
Concen: 277.613 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 490522

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.5	35.3



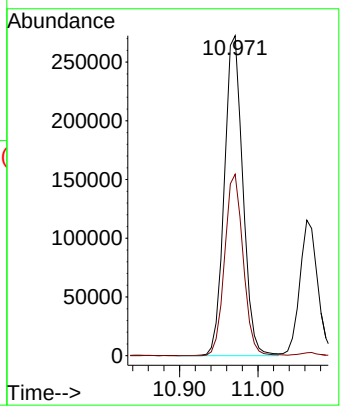


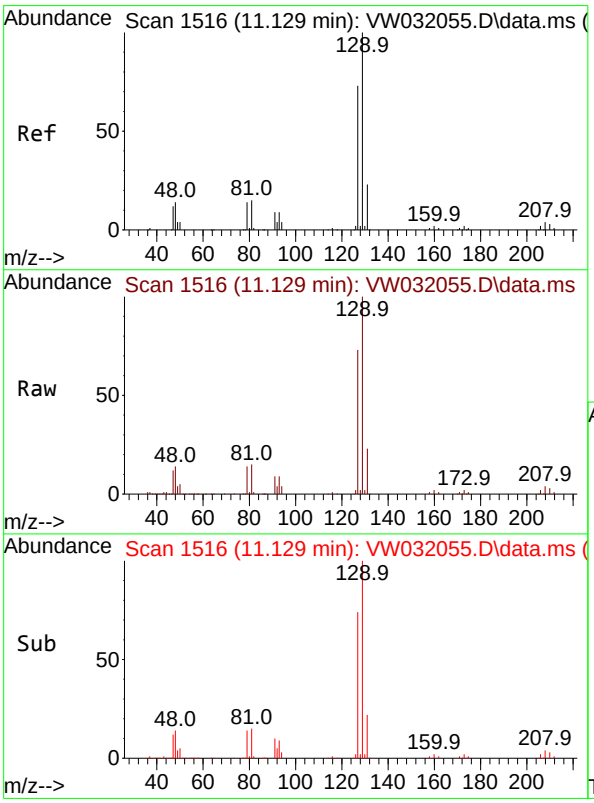
#59
2-Hexanone
Concen: 284.986 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 447423

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0

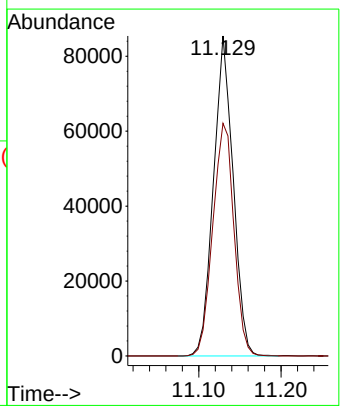


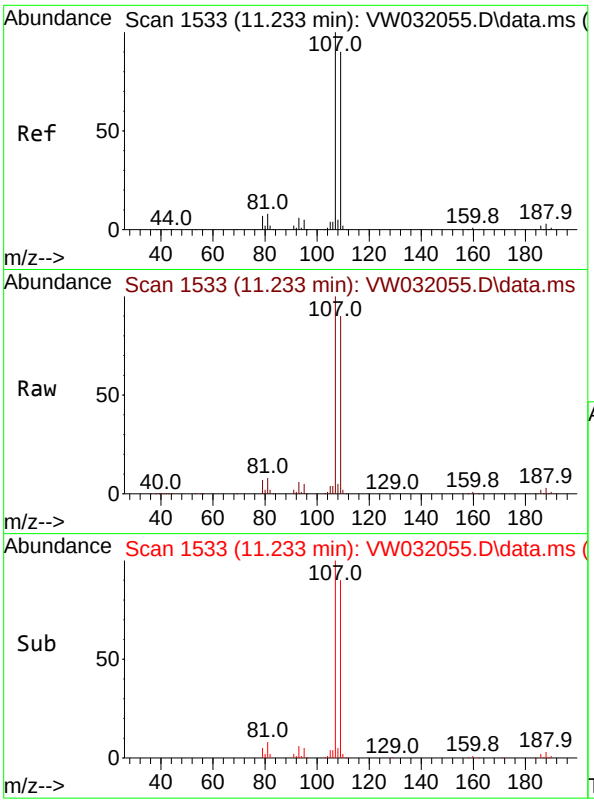


#60
Dibromochloromethane
Concen: 52.161 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:129 Resp: 142234

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9





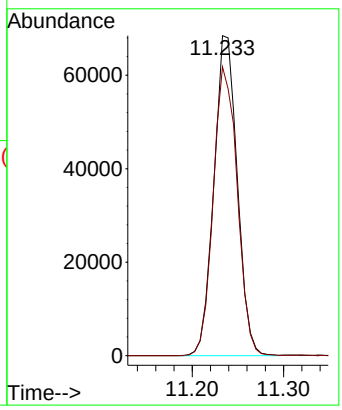
#61
1,2-Dibromoethane
Concen: 52.430 ug/l
RT: 11.233 min Scan# 1

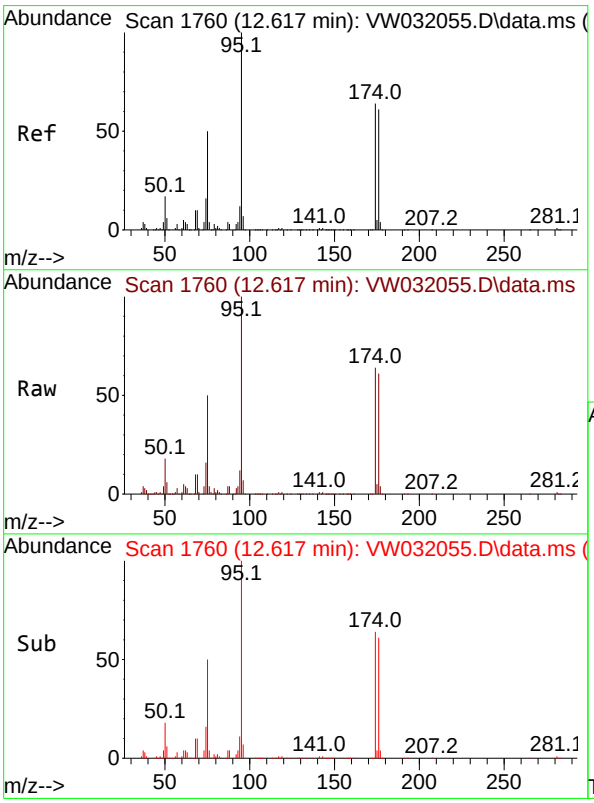
Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:107 Resp: 121625

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.2	111.4

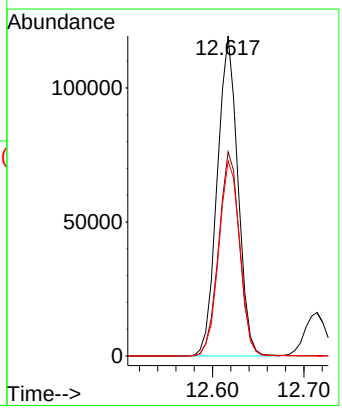


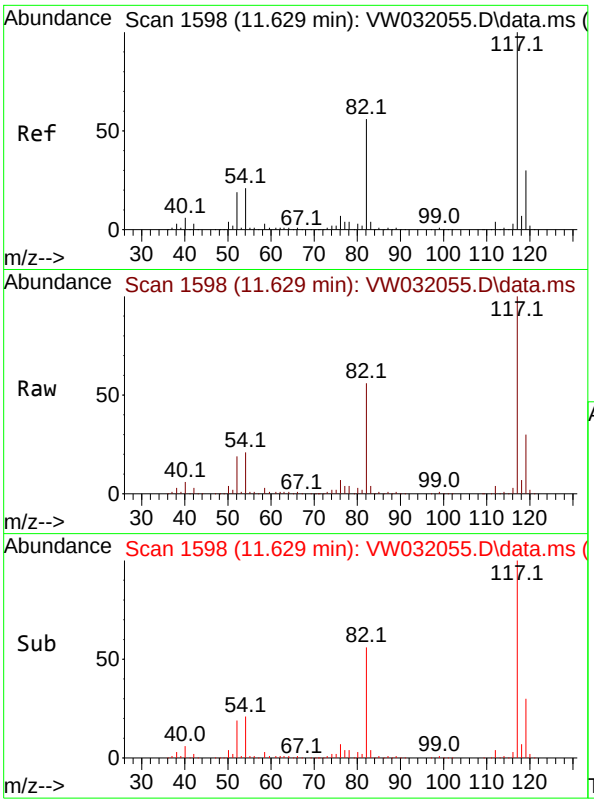


#62
4-Bromofluorobenzene
Concen: 52.274 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 95 Resp: 187331

Ion	Ratio	Lower	Upper
95	100		
174	64.5	0.0	129.0
176	62.3	0.0	124.6



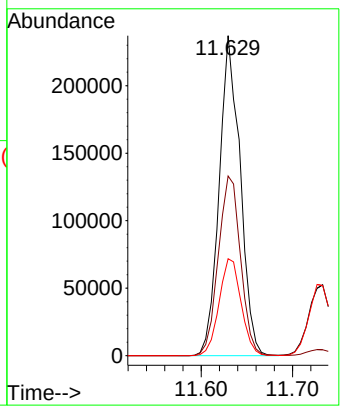


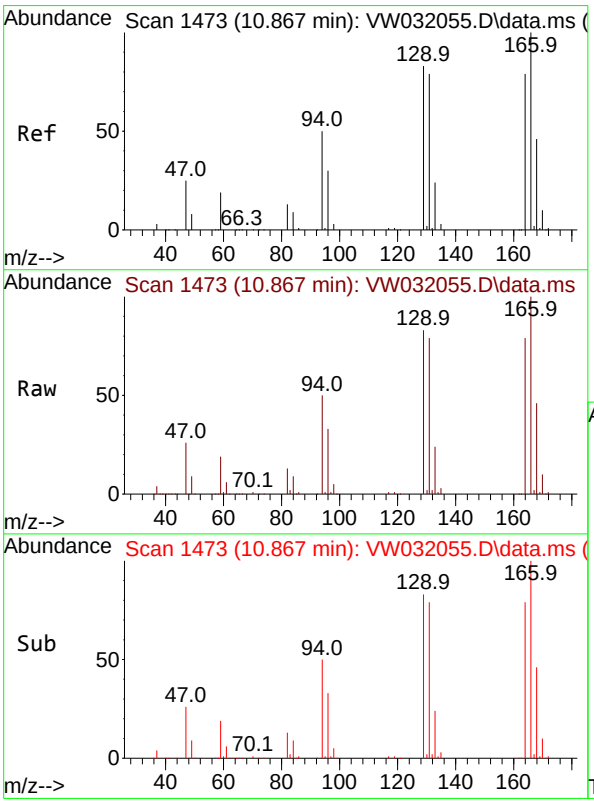
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 378090

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.0	67.4
119	30.3	24.2	36.4

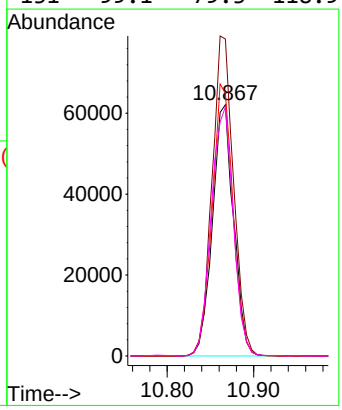


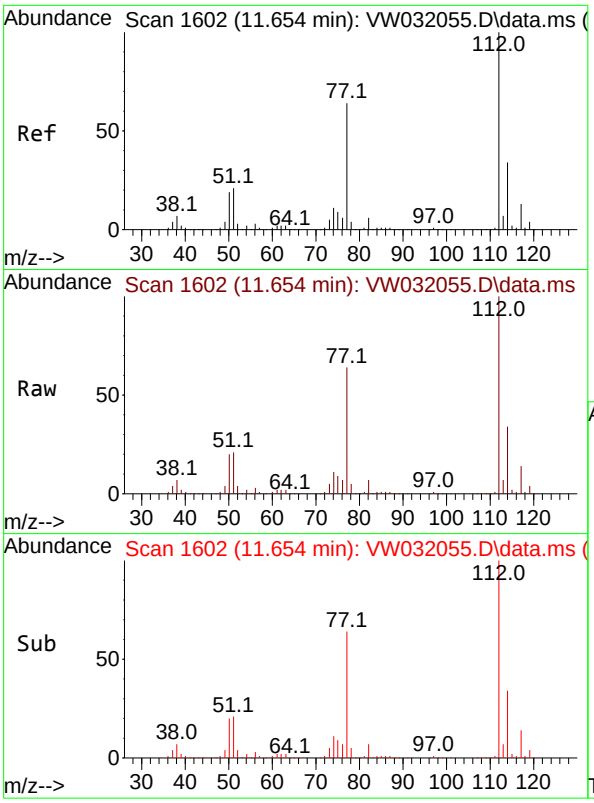


#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:164 Resp: 105400

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.9	151.3
129	104.5	83.6	125.4
131	99.1	79.3	118.9



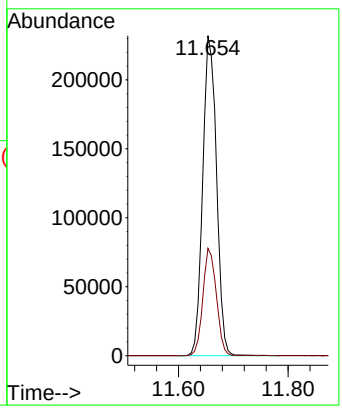


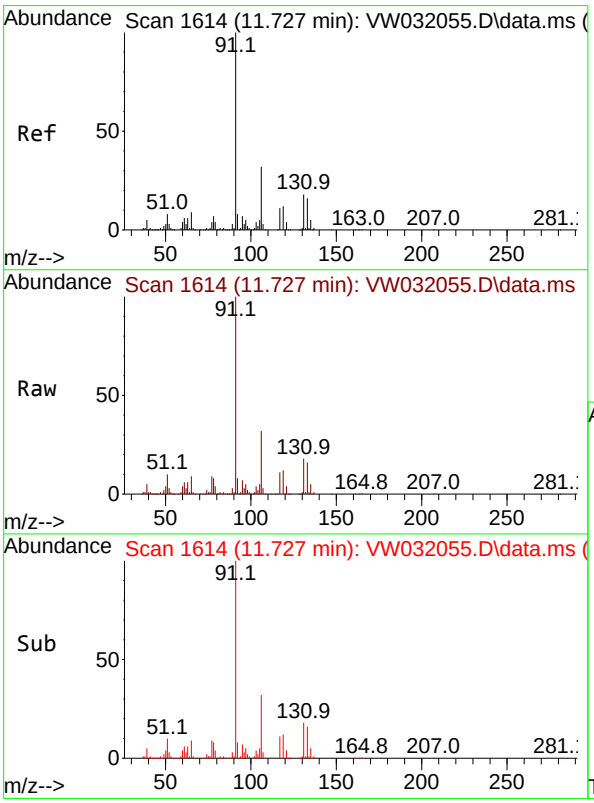
#65
Chlorobenzene
Concen: 49.082 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 403926

Ion	Ratio	Lower	Upper
112	100		
114	33.6	26.9	40.3

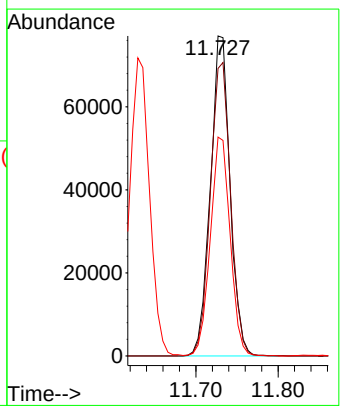


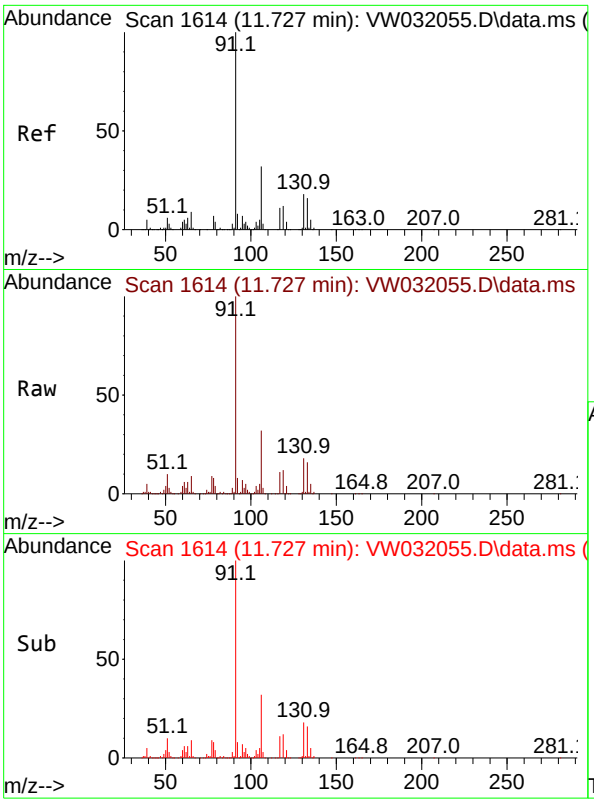


#66
1,1,1,2-Tetrachloroethane
Concen: 49.935 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:131 Resp: 128215

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	69.0	34.5	103.5



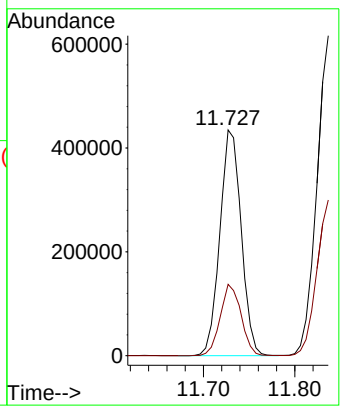


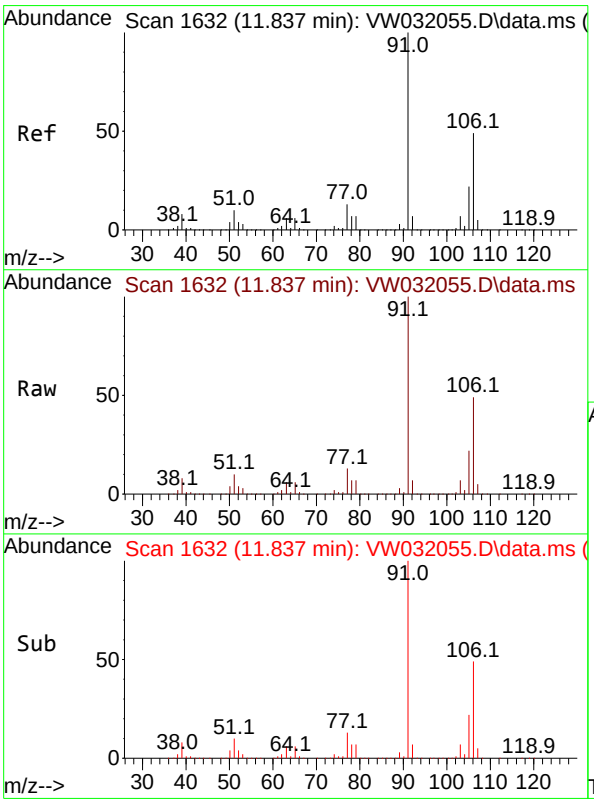
#67
Ethyl Benzene
Concen: 50.709 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 706877

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.4	38.0

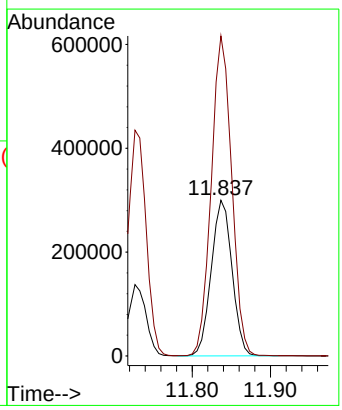


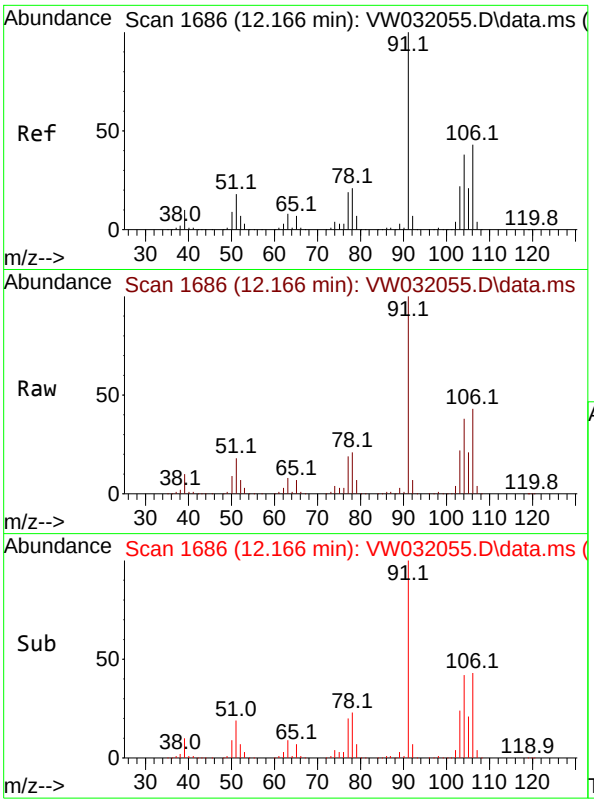


#68
m/p-Xylenes
Concen: 102.704 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 552442

Ion	Ratio	Lower	Upper
106	100		
91	202.7	162.2	243.2



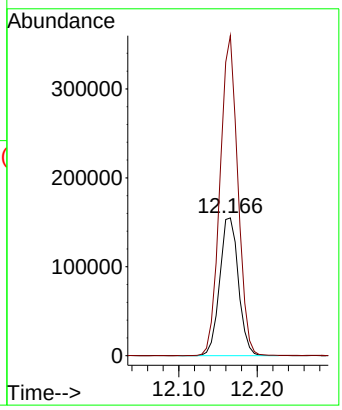


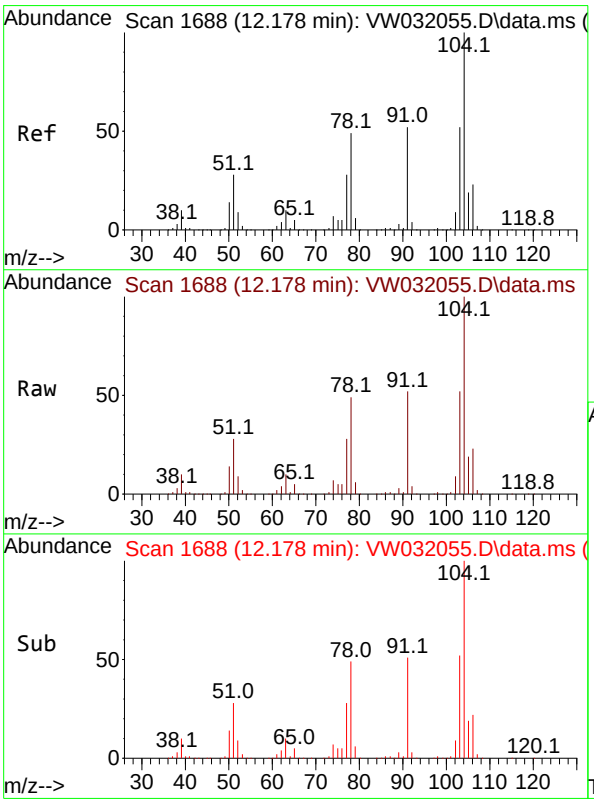
#69
o-Xylene
Concen: 51.812 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 257591

Ion	Ratio	Lower	Upper
106	100		
91	221.5	110.8	332.3

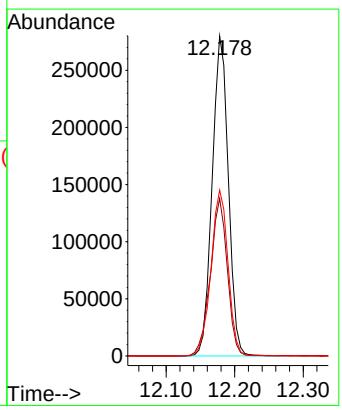


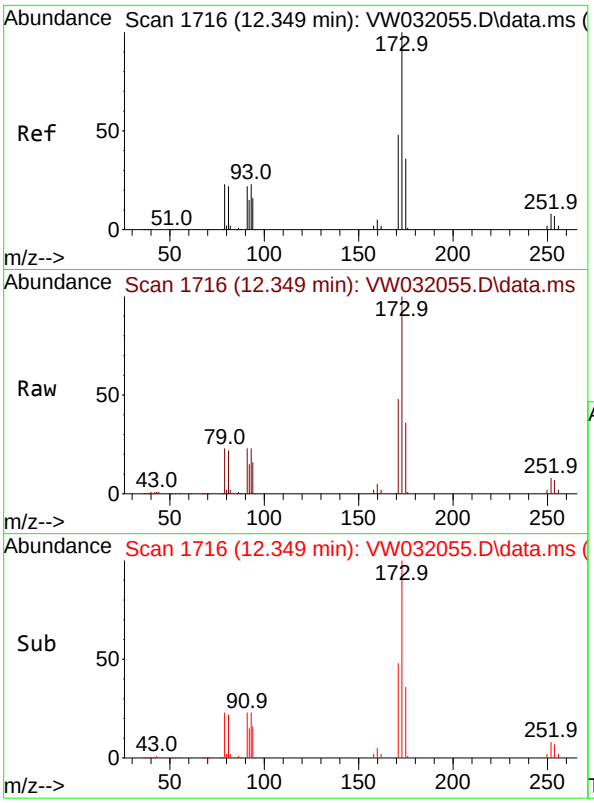


#70
Styrene
Concen: 51.858 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:104 Resp: 457949

Ion	Ratio	Lower	Upper
104	100		
78	51.5	41.2	61.8
103	54.8	43.8	65.8



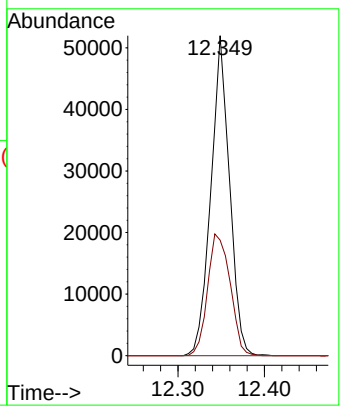


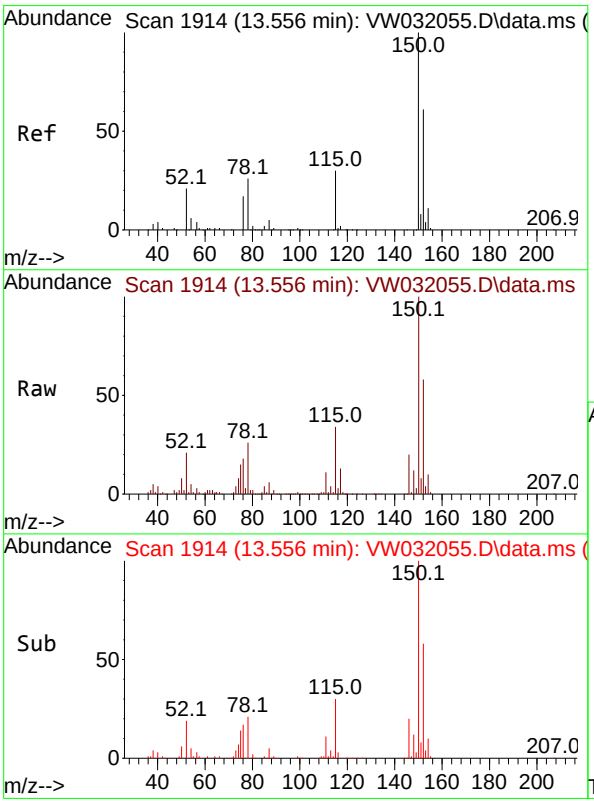
#71
Bromoform
Concen: 53.078 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 77959

Ion	Ratio	Lower	Upper
173	100		
175	45.8	22.9	68.7
254	0.0	0.0	0.0

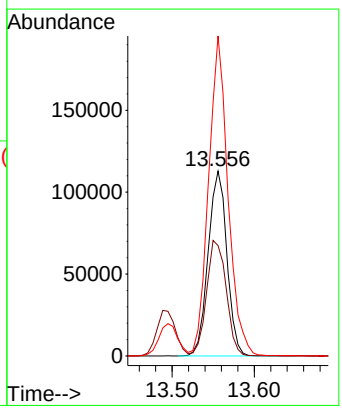


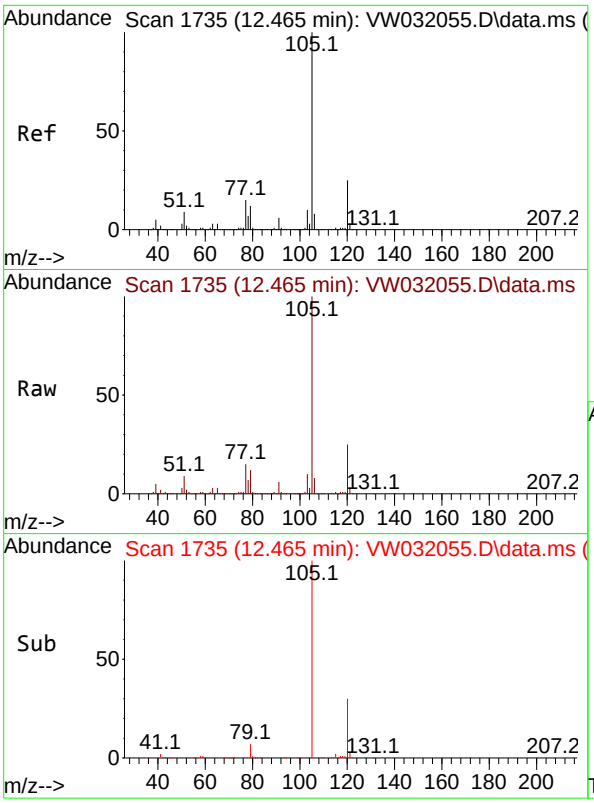


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:152 Resp: 178995

Ion	Ratio	Lower	Upper
152	100		
115	65.2	32.6	97.8
150	179.7	0.0	359.4



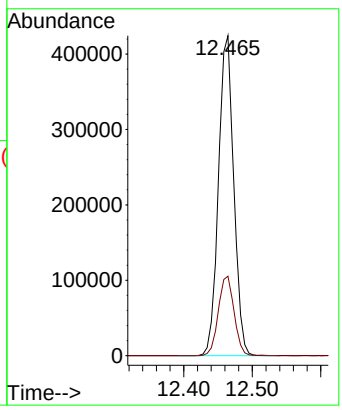


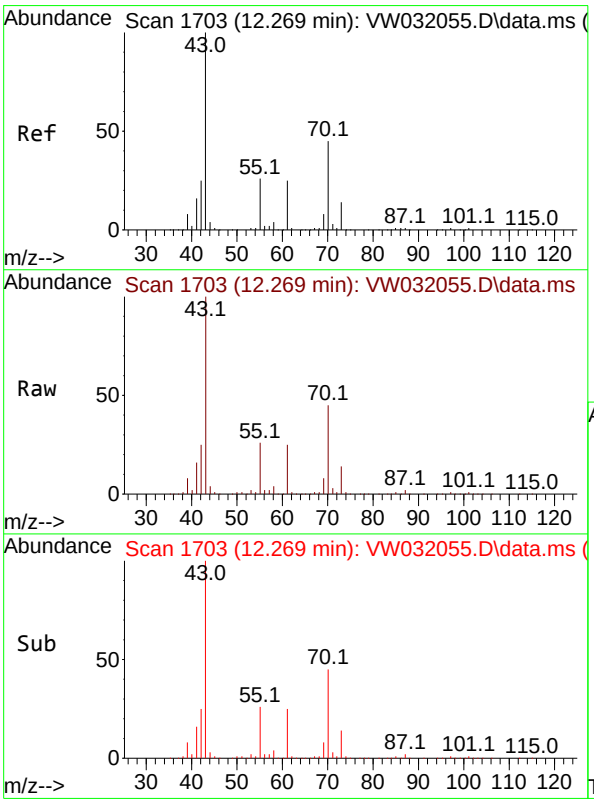
#73
Isopropylbenzene
Concen: 52.323 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 654522

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

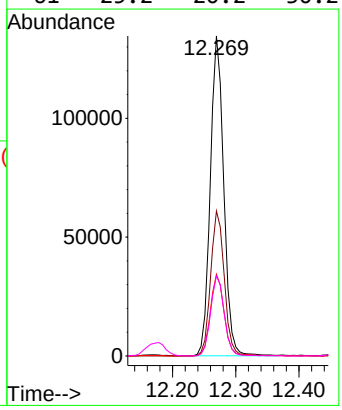


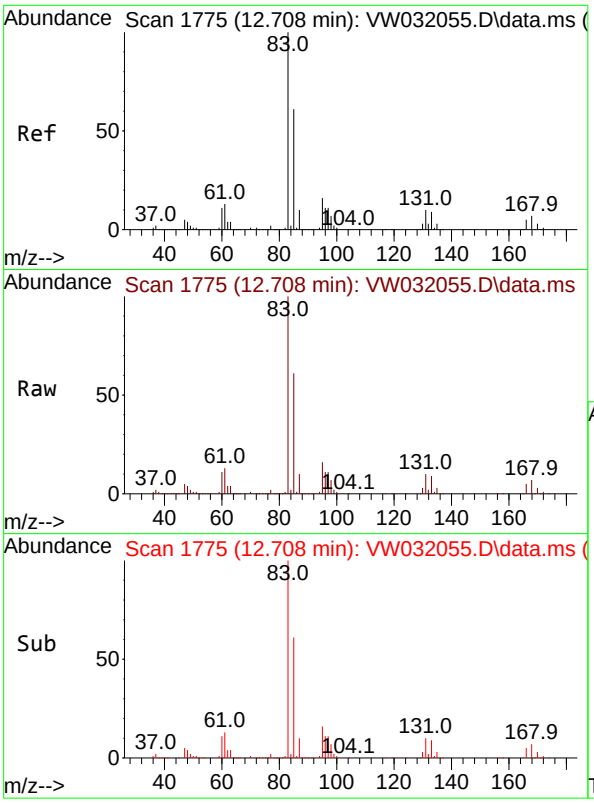


#74
N-amyl acetate
Concen: 55.520 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 199256

Ion	Ratio	Lower	Upper
43	100		
70	46.2	37.0	55.4
55	26.4	21.1	31.7
61	25.2	20.2	30.2



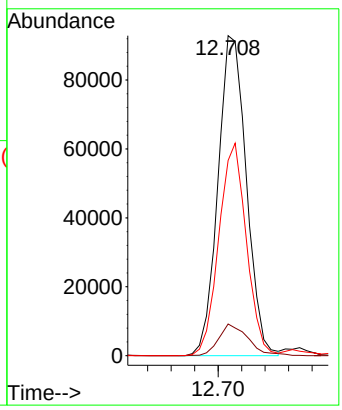


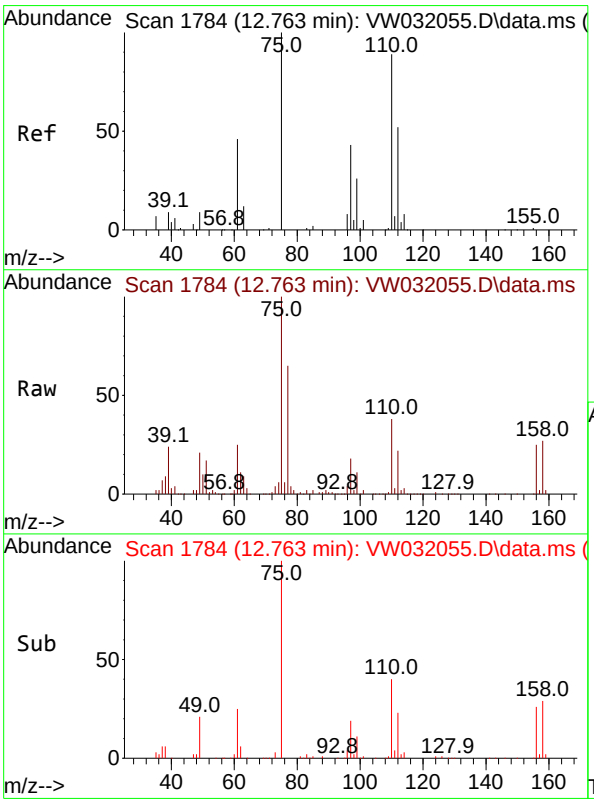
#75
1,1,2,2-Tetrachloroethane
Concen: 52.549 ug/l
RT: 12.708 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 156076

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.4	32.2	96.6

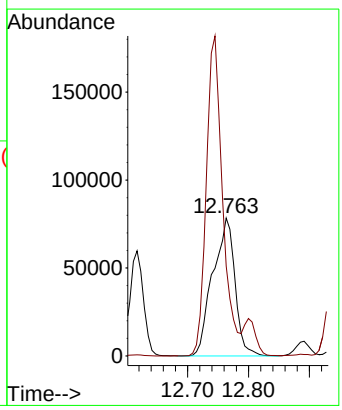


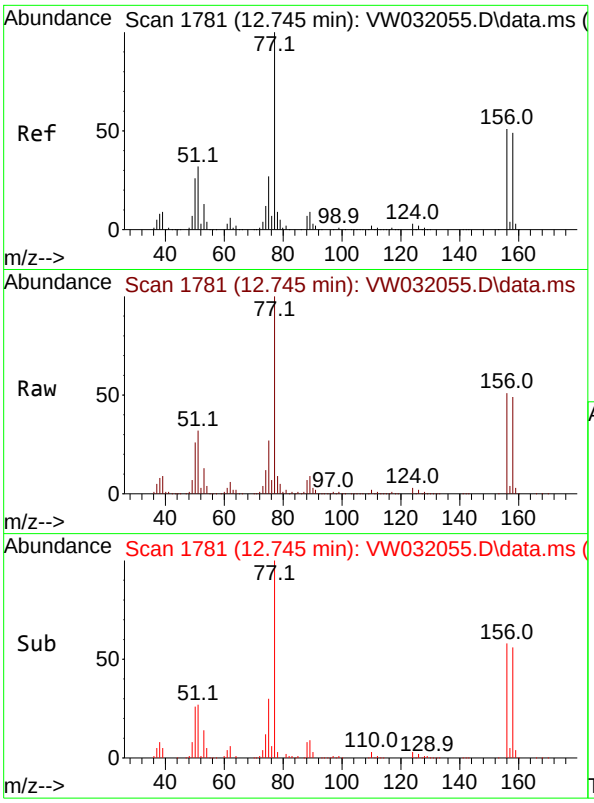


#76
1,2,3-Trichloropropane
Concen: 72.113 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 198427

Ion	Ratio	Lower	Upper
75	100		
77	171.4	123.5	370.5



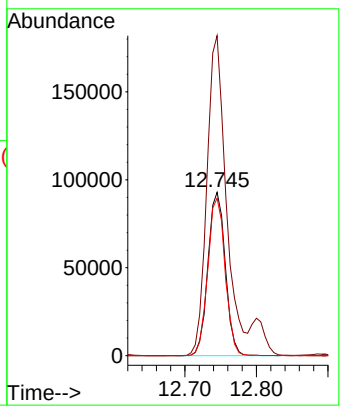


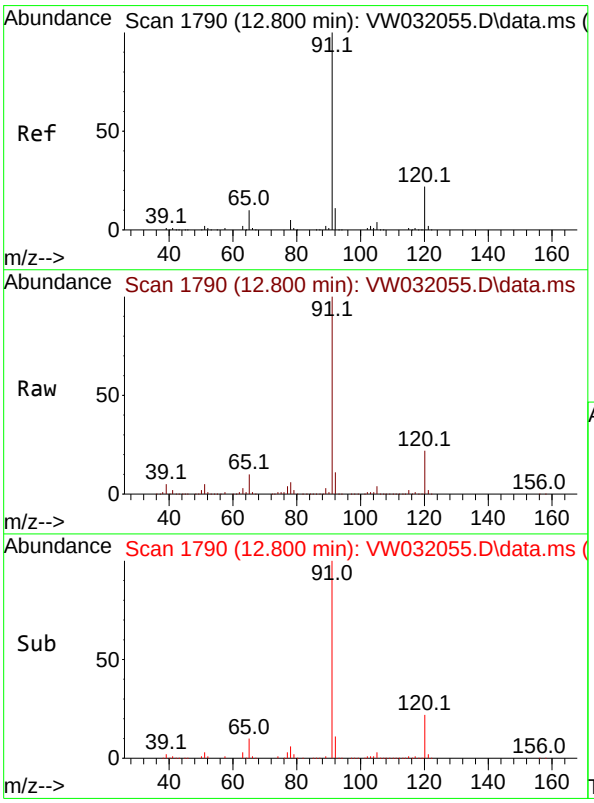
#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 156335

Ion	Ratio	Lower	Upper
156	100		
77	217.5	108.7	326.3
158	96.6	48.3	144.9

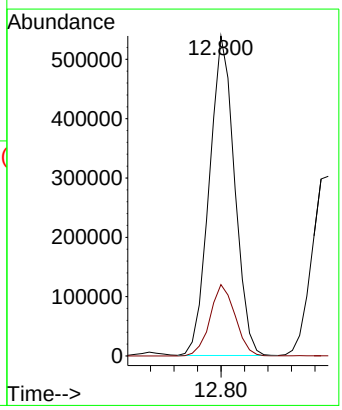


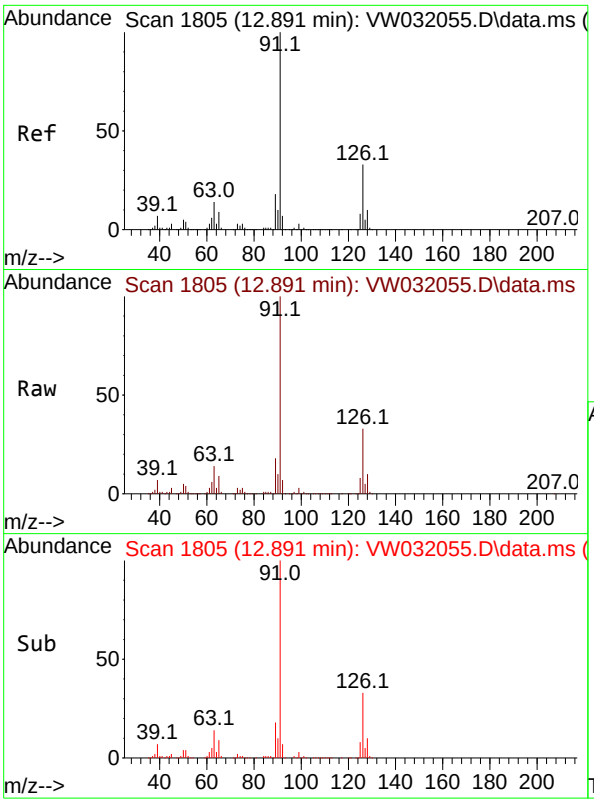


#78
n-propylbenzene
Concen: 52.304 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 805515

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



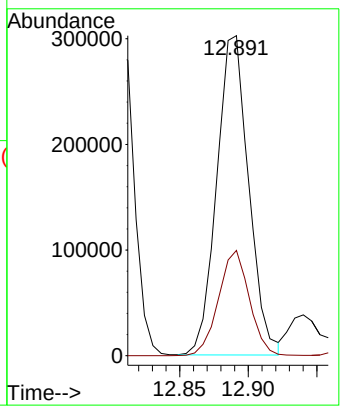


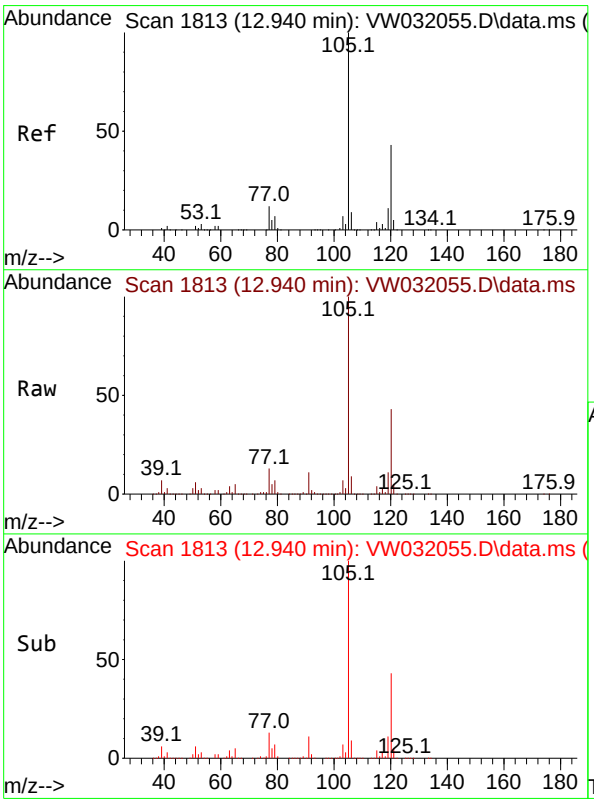
#79
2-Chlorotoluene
Concen: 51.622 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 490665

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7

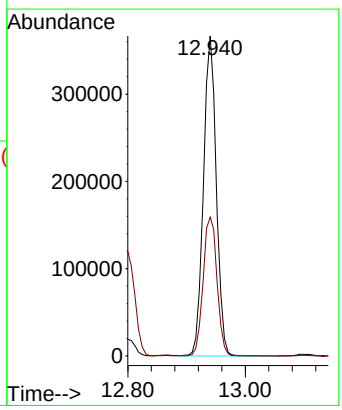


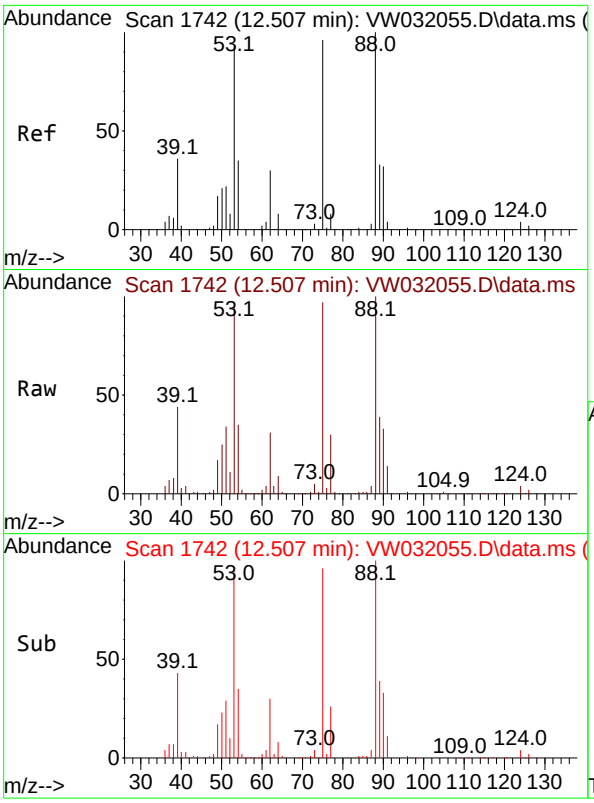


#80
1,3,5-Trimethylbenzene
Concen: 52.305 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 555481

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.0



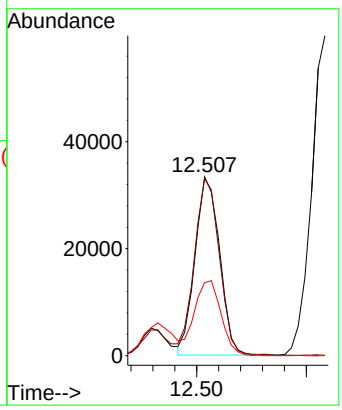


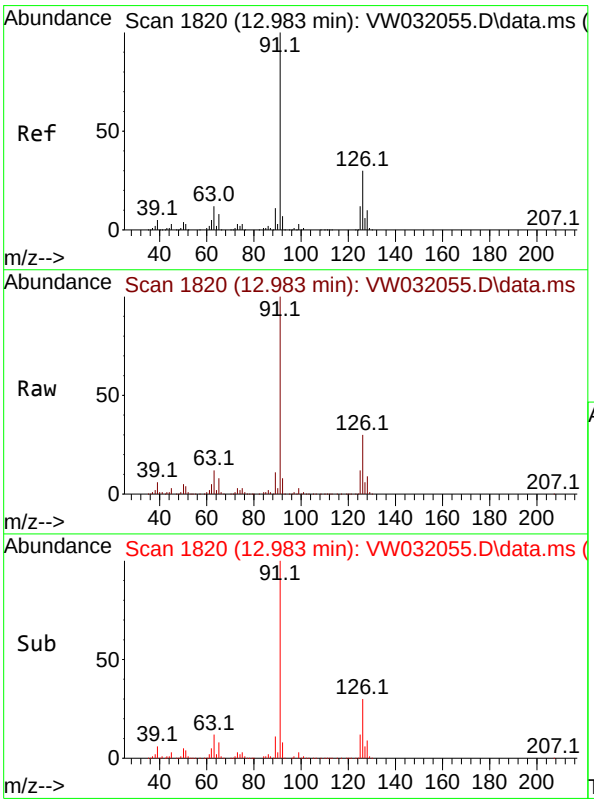
#81
trans-1,4-Dichloro-2-butene
Concen: 55.213 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 51811

Ion	Ratio	Lower	Upper
75	100		
53	101.3	81.0	121.6
89	46.6	37.3	55.9

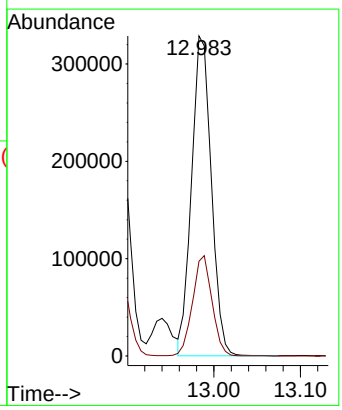


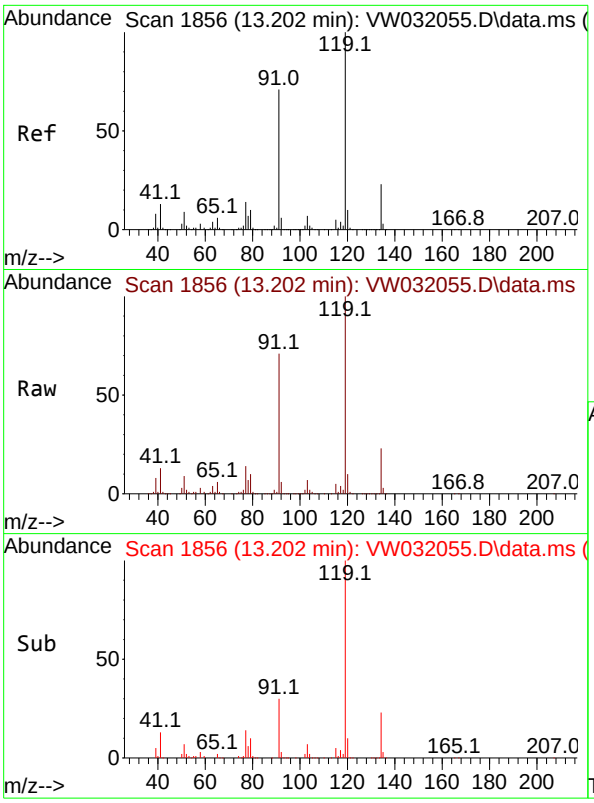


#82
4-Chlorotoluene
Concen: 51.488 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 519957

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.5	46.5



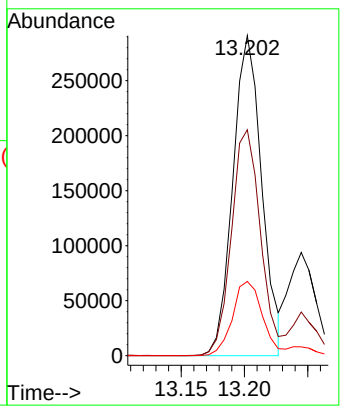


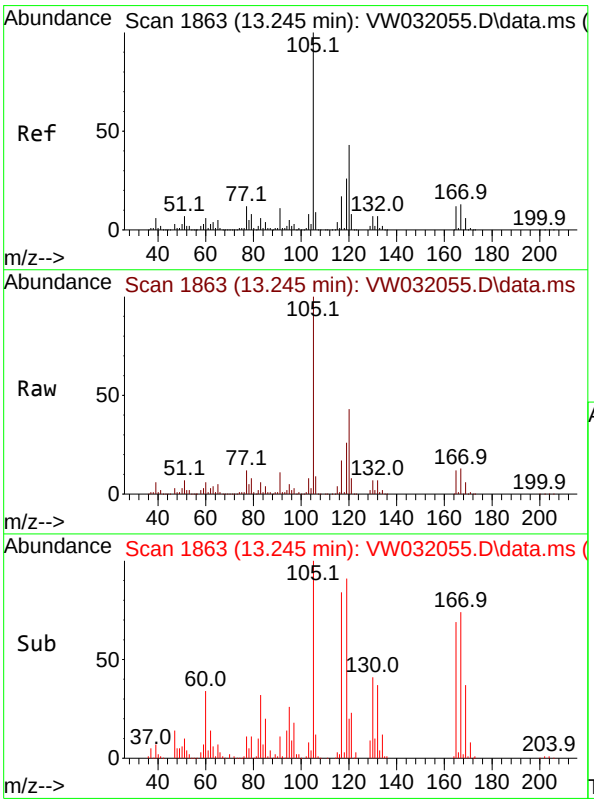
#83
tert-Butylbenzene
Concen: 52.460 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 462373

Ion	Ratio	Lower	Upper
119	100		
91	70.6	35.3	105.9
134	24.2	12.1	36.3

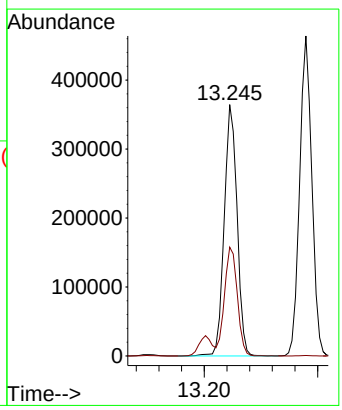


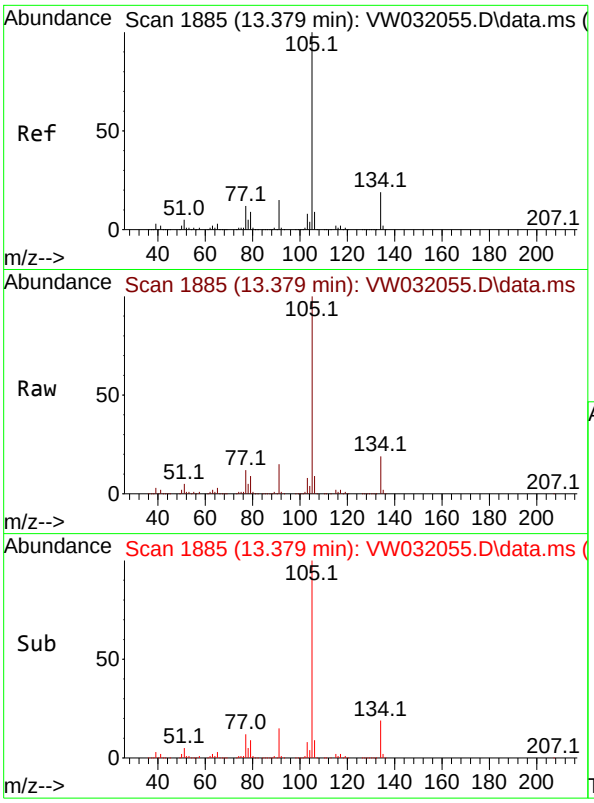


#84
1,2,4-Trimethylbenzene
Concen: 52.950 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 572429

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8



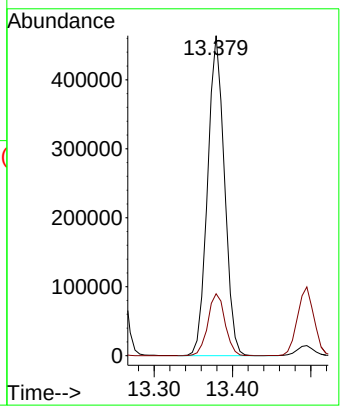


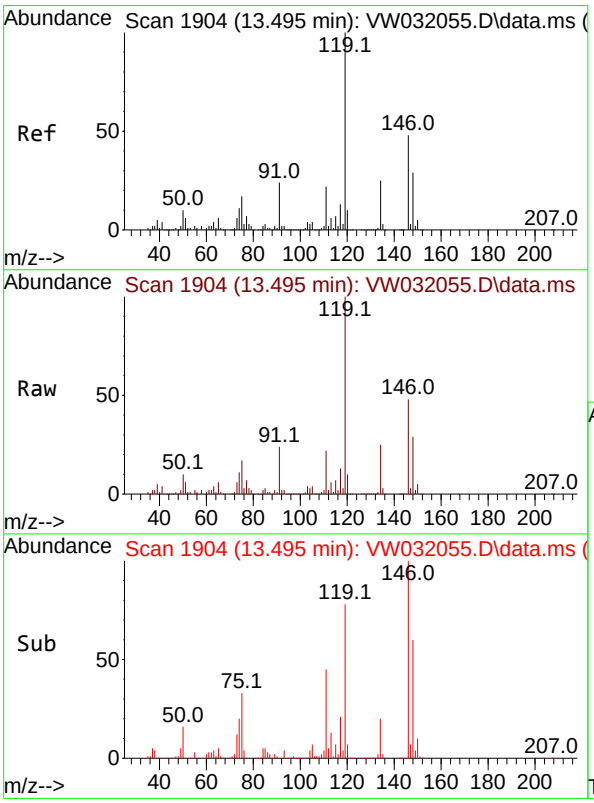
#85
sec-Butylbenzene
Concen: 51.829 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 690647

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

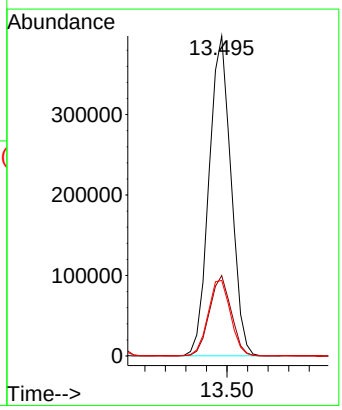


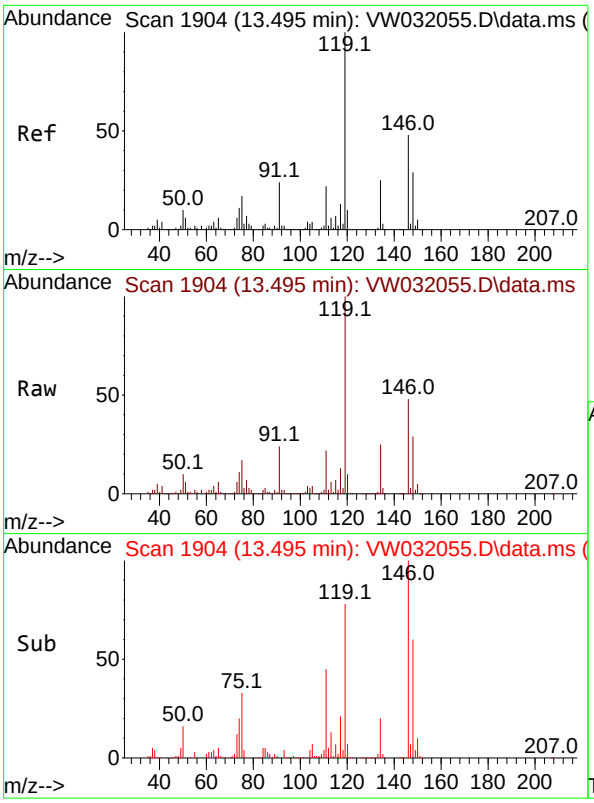


#86
p-Isopropyltoluene
Concen: 53.089 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:119 Resp: 589769

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.4	37.0
91	24.2	12.1	36.3



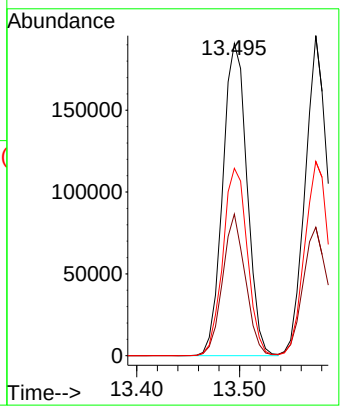


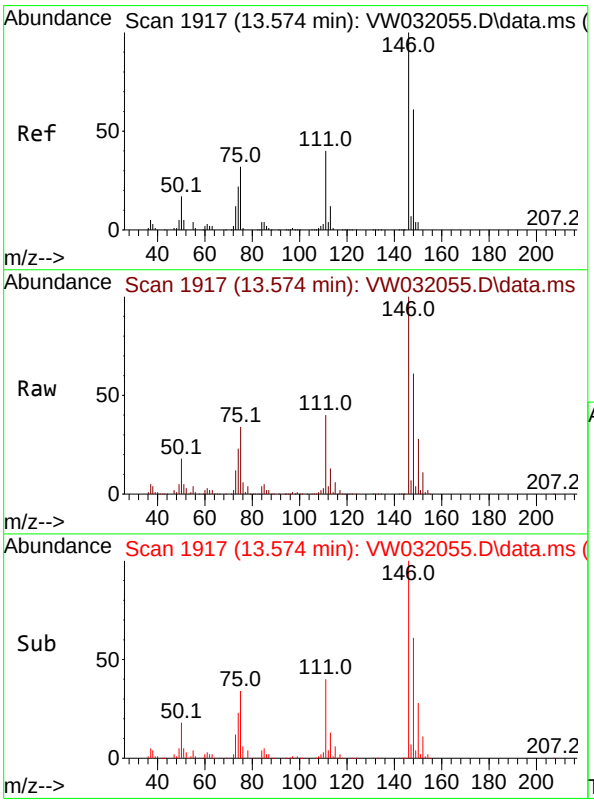
#87
1,3-Dichlorobenzene
Concen: 52.754 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 313624

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	60.5	30.3	90.8

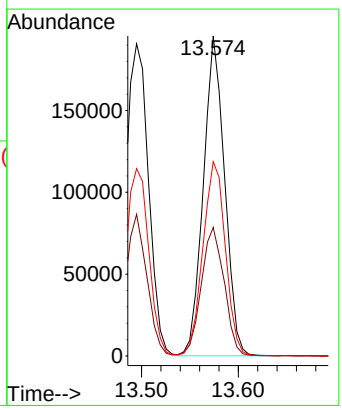


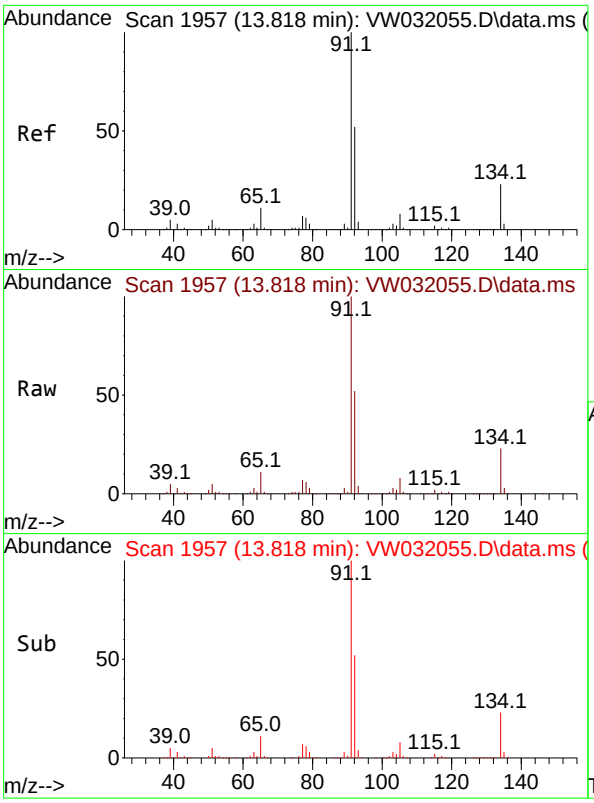


#88
1,4-Dichlorobenzene
Concen: 49.844 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 299453

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	64.1	32.0	96.2



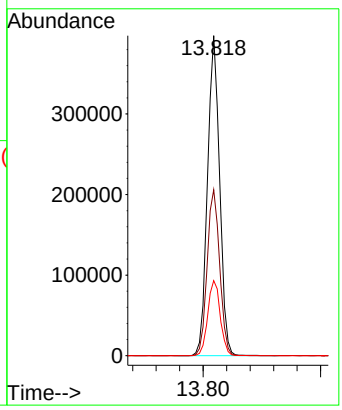


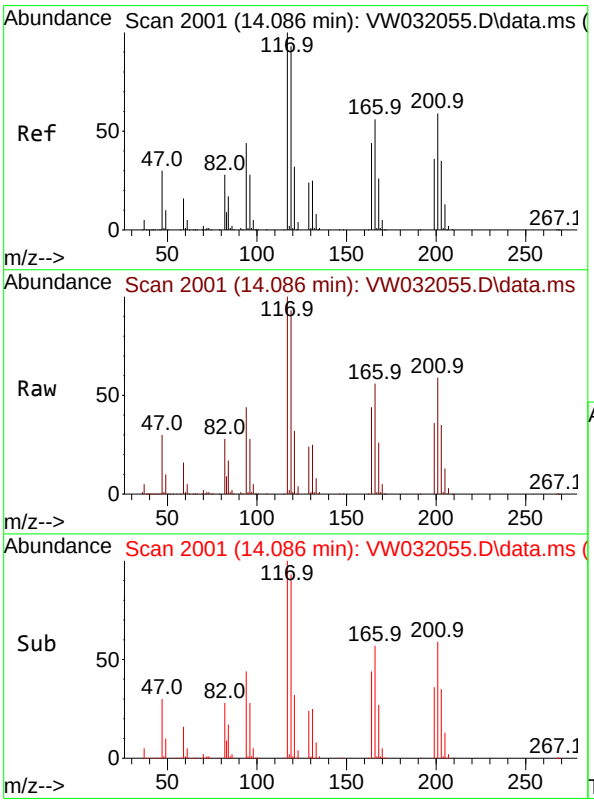
#89
n-Butylbenzene
Concen: 52.756 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 569364

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.7	80.1
134	24.1	12.0	36.1

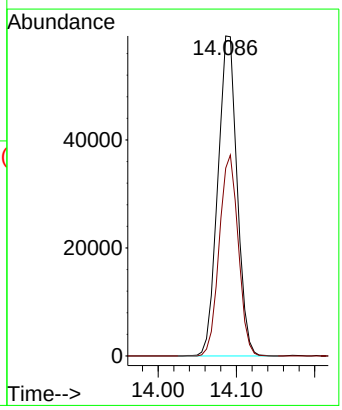


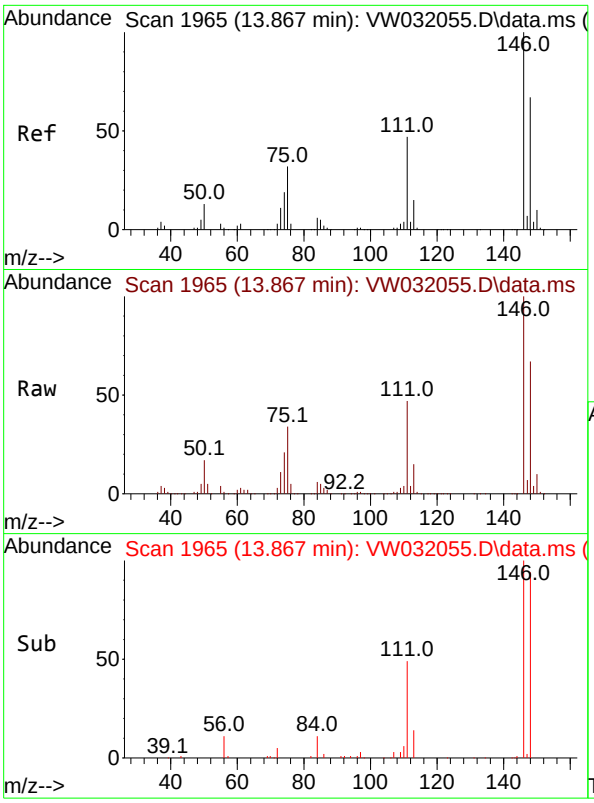


#90
Hexachloroethane
Concen: 49.942 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 101464

Ion	Ratio	Lower	Upper
117	100		
201	61.7	30.9	92.5



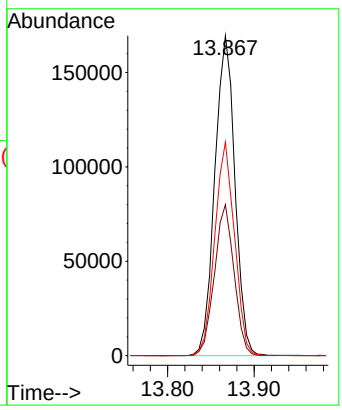


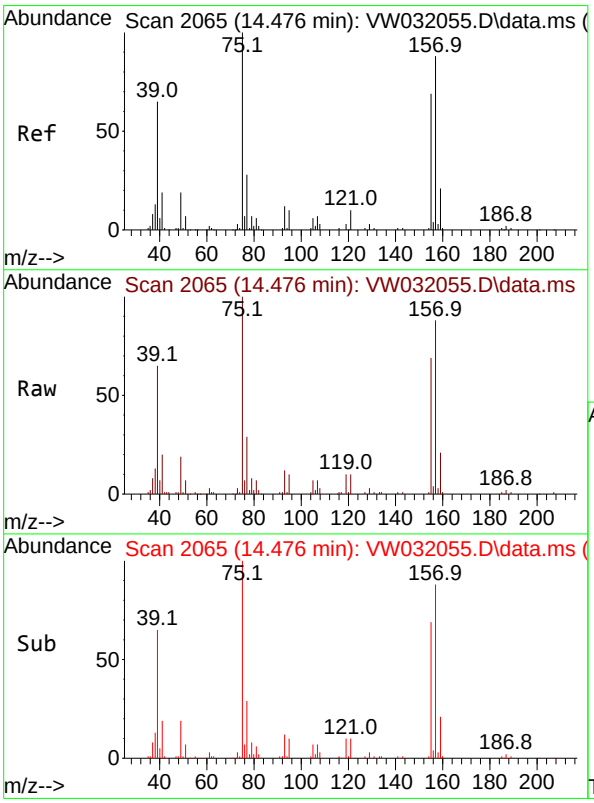
#91
1,2-Dichlorobenzene
Concen: 50.801 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 273581

Ion	Ratio	Lower	Upper
146	100		
111	46.2	23.1	69.3
148	65.7	32.9	98.6

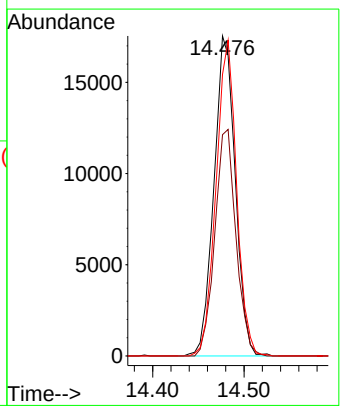


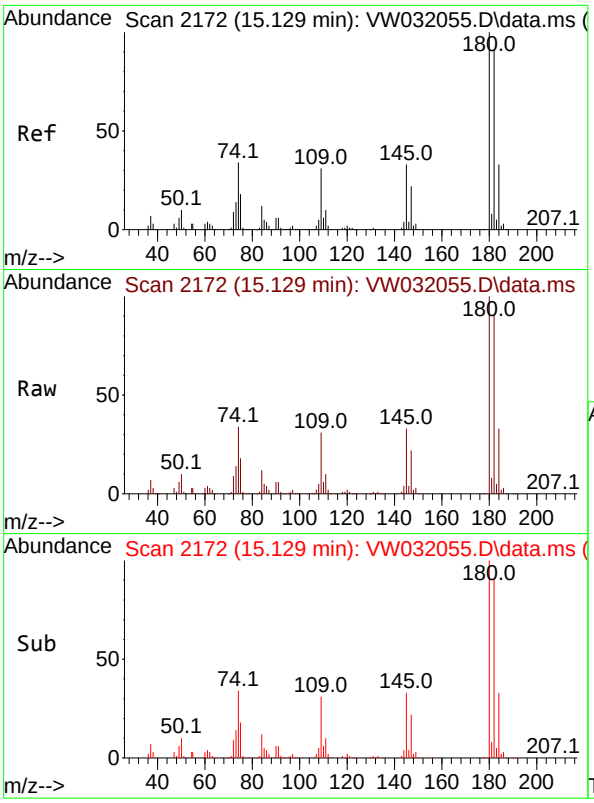


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.857 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 28437

Ion	Ratio	Lower	Upper
75	100		
155	70.4	35.2	105.6
157	95.1	47.5	142.6



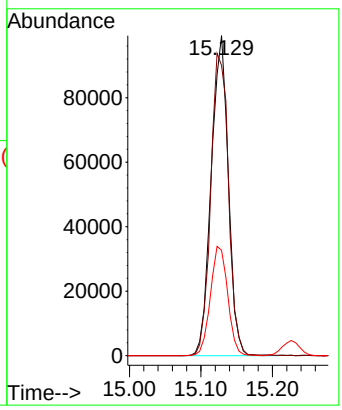


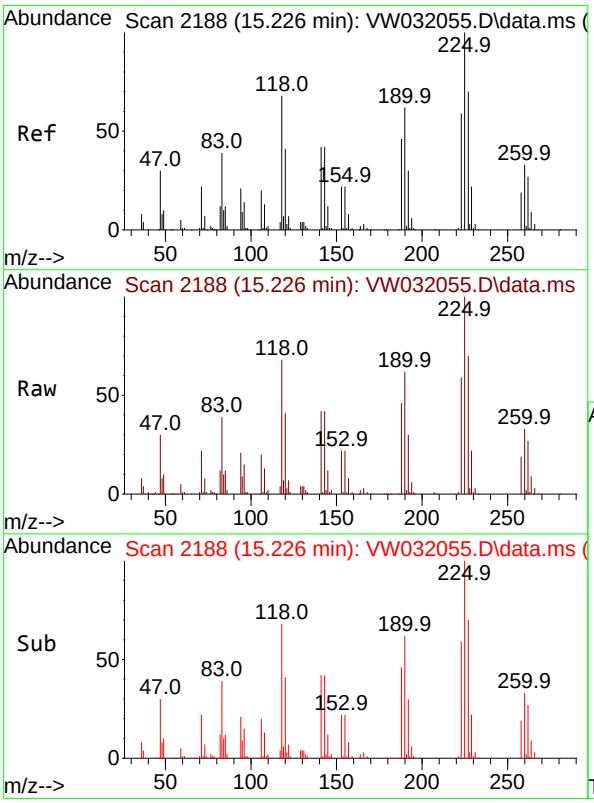
#93
1,2,4-Trichlorobenzene
Concen: 51.132 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 164726

Ion	Ratio	Lower	Upper
180	100		
182	98.0	49.0	147.0
145	34.6	17.3	51.9

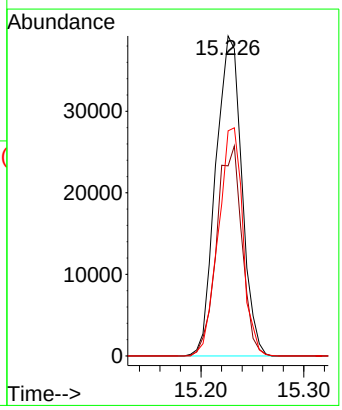


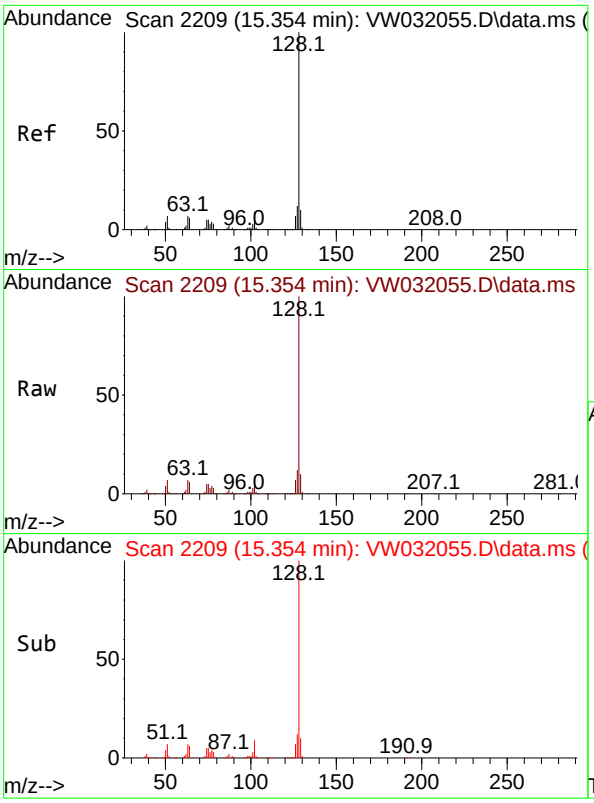


#94
Hexachlorobutadiene
Concen: 47.902 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:225 Resp: 68983

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.8	95.3
227	67.0	33.5	100.5



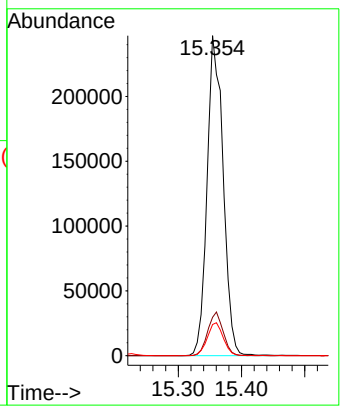


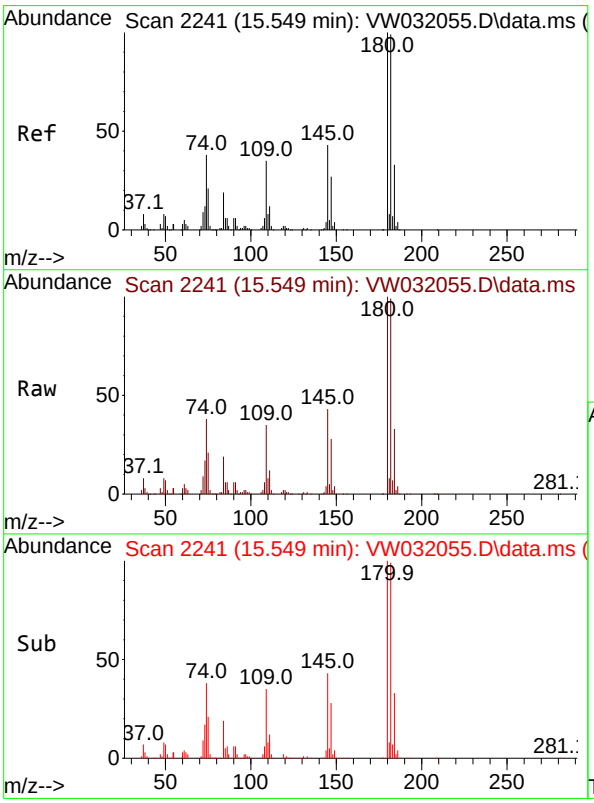
#95
Naphthalene
Concen: 55.099 ug/l
RT: 15.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 434944

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.3	8.2	12.4

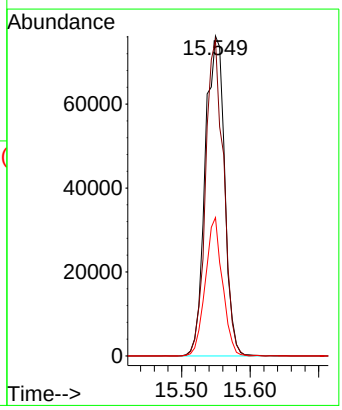




#96
1,2,3-Trichlorobenzene
Concen: 51.022 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:180 Resp: 149556

Ion	Ratio	Lower	Upper
180	100		
182	92.0	46.0	138.0
145	38.4	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	221384	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	424901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	387705	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	180763	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	315411	98.509	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 197.020%#			
35) Dibromofluoromethane	7.898	113	266117	96.945	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 193.900%#			
50) Toluene-d8	10.325	98	1005940	99.078	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 198.160%#			
62) 4-Bromofluorobenzene	12.617	95	372416	99.536	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 199.080%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	140330	88.627	ug/l	100
3) Chloromethane	2.253	50	200261	93.894	ug/l	99
4) Vinyl Chloride	2.405	62	239040	92.654	ug/l	94
5) Bromomethane	2.820	94	182687	94.386	ug/l	96
6) Chloroethane	2.966	64	164961	96.628	ug/l	98
7) Trichlorofluoromethane	3.295	101	182663	88.382	ug/l	96
8) Diethyl Ether	3.716	74	164632	97.227	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	224293	91.988	ug/l	100
10) Methyl Iodide	4.301	142	336162	97.237	ug/l	99
11) Tert butyl alcohol	5.216	59	99671	480.735	ug/l	100
12) 1,1-Dichloroethene	4.070	96	251341	93.615	ug/l	92
13) Acrolein	3.923	56	148403	449.230	ug/l	100
14) Allyl chloride	4.698	41	385062	98.543	ug/l	99
15) Acrylonitrile	5.393	53	388290	481.445	ug/l	99
16) Acetone	4.155	43	328664	443.358	ug/l	100
17) Carbon Disulfide	4.417	76	693616	96.248	ug/l	97
18) Methyl Acetate	4.704	43	218695	93.230	ug/l	98
19) Methyl tert-butyl Ether	5.460	73	473924	100.184	ug/l	99
20) Methylene Chloride	4.954	84	285049	83.165	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	281466	98.787	ug/l	98
22) Diisopropyl ether	6.332	45	829703	100.722	ug/l	98
23) Vinyl Acetate	6.277	43	2803250	518.312	ug/l	100
24) 1,1-Dichloroethane	6.240	63	519360	98.678	ug/l	99
25) 2-Butanone	7.191	43	515739	489.508	ug/l	99
26) 2,2-Dichloropropane	7.185	77	249271	94.405	ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	343091	103.016	ug/l	97
28) Bromochloromethane	7.526	49	230727	96.333	ug/l	100
29) Tetrahydrofuran	7.551	42	338578	487.284	ug/l	99
30) Chloroform	7.685	83	550232	98.613	ug/l	96
31) Cyclohexane	7.965	56	416558	91.292	ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	384671	94.913	ug/l	99
36) 1,1-Dichloropropene	8.093	75	373215	96.444	ug/l	99
37) Ethyl Acetate	7.270	43	221929	97.375	ug/l	99
38) Carbon Tetrachloride	8.081	117	362373	97.035	ug/l	91
39) Methylcyclohexane	9.337	83	459134	97.342	ug/l	97
40) Benzene	8.331	78	1160107	96.444	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	135773	105.048	ug/l		97
42) 1,2-Dichloroethane	8.410	62	364674	94.743	ug/l		100
43) Isopropyl Acetate	8.435	43	413211	98.543	ug/l		99
44) Trichloroethene	9.093	130	270995	94.602	ug/l		99
45) 1,2-Dichloropropane	9.374	63	278124	95.707	ug/l		99
46) Dibromomethane	9.465	93	177966	94.888	ug/l		98
47) Bromodichloromethane	9.648	83	422958	97.867	ug/l		98
48) Methyl methacrylate	9.441	41	202632	100.098	ug/l		98
49) 1,4-Dioxane	9.459	88	46383	1912.696	ug/l		99
51) 4-Methyl-2-Pentanone	10.209	43	1127080	476.209	ug/l		99
52) Toluene	10.386	92	753592	99.464	ug/l		96
53) t-1,3-Dichloropropene	10.605	75	410734	101.442	ug/l		95
54) cis-1,3-Dichloropropene	10.075	75	468972	102.096	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	239507	96.099	ug/l		97
56) Ethyl methacrylate	10.642	69	348446	104.477	ug/l		99
57) 1,3-Dichloropropane	10.934	76	412949	95.056	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	948129	513.956	ug/l		99
59) 2-Hexanone	10.965	43	793810	484.283	ug/l		99
60) Dibromochloromethane	11.129	129	282060	99.074	ug/l		99
61) 1,2-Dibromoethane	11.233	107	240542	99.317	ug/l		99
64) Tetrachloroethene	10.867	164	213297	95.247	ug/l		94
65) Chlorobenzene	11.654	112	808609	95.819	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	253284	96.197	ug/l		97
67) Ethyl Benzene	11.727	91	1418619	99.243	ug/l		96
68) m/p-Xylenes	11.837	106	1089143	197.459	ug/l		97
69) o-Xylene	12.166	106	523329	102.652	ug/l		97
70) Styrene	12.178	104	916019	101.158	ug/l		100
71) Bromoform	12.349	173	145781	96.794	ug/l	#	92
73) Isopropylbenzene	12.458	105	1299533	102.870	ug/l		100
74) N-amyl acetate	12.269	43	378722	104.494	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	286977	95.677	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	363264	130.728	ug/l		61
77) Bromobenzene	12.745	156	311049	103.091	ug/l		96
78) n-propylbenzene	12.800	91	1589147	102.177	ug/l		99
79) 2-Chlorotoluene	12.891	91	974324	101.505	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	1092987	101.912	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	98906	104.370	ug/l		98
82) 4-Chlorotoluene	12.983	91	1013836	99.412	ug/l		99
83) tert-Butylbenzene	13.202	119	922044	103.591	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	1089327	99.778	ug/l		96
85) sec-Butylbenzene	13.379	105	1372324	101.978	ug/l		98
86) p-Isopropyltoluene	13.495	119	1128935	100.630	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	572145	95.298	ug/l		96
88) 1,4-Dichlorobenzene	13.574	146	587417	96.819	ug/l		99
89) n-Butylbenzene	13.818	91	1103362	101.235	ug/l		99
90) Hexachloroethane	14.086	117	204823	99.832	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	524204	96.387	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	50993	95.632	ug/l		97
93) 1,2,4-Trichlorobenzene	15.129	180	338661	104.094	ug/l		97
94) Hexachlorobutadiene	15.226	225	138434	95.189	ug/l		98
95) Naphthalene	15.360	128	841296	105.533	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	313033	105.748	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

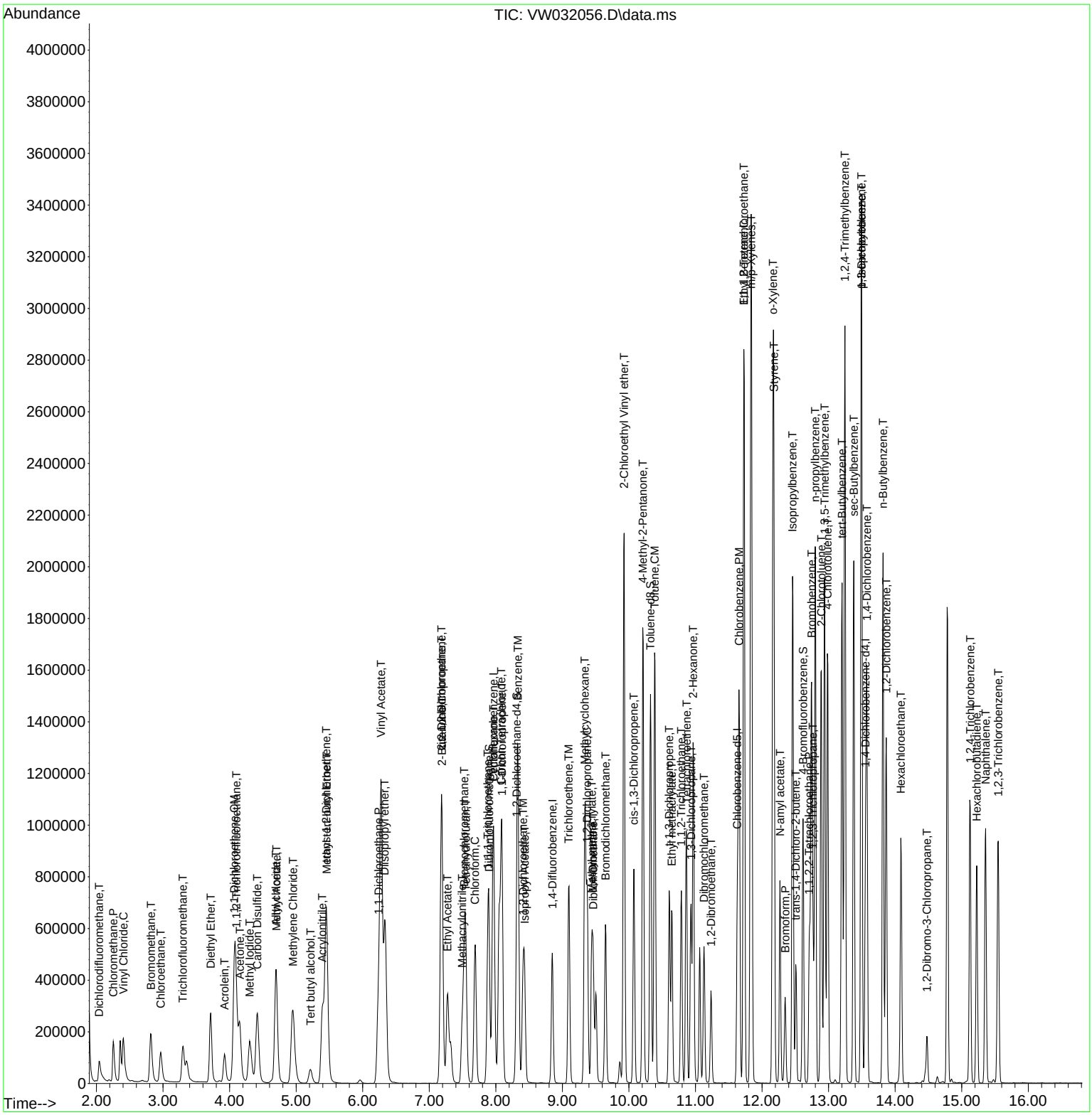
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

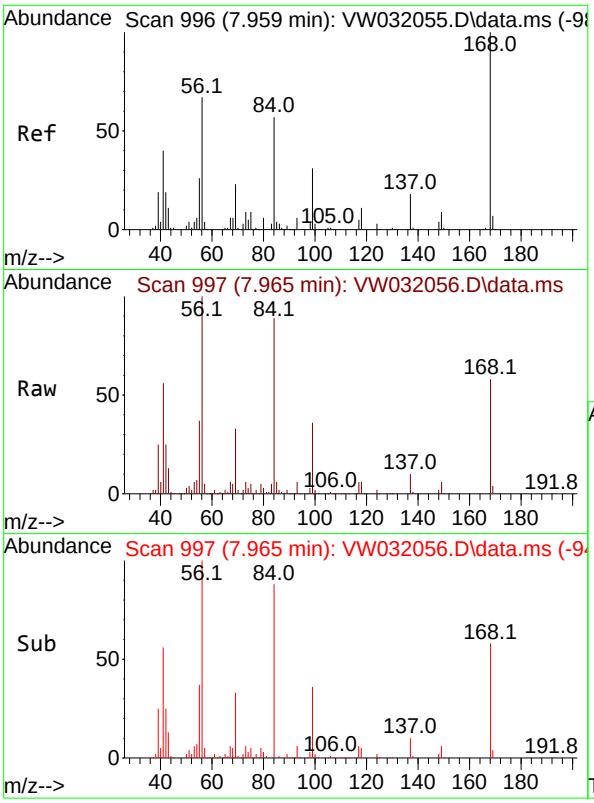
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



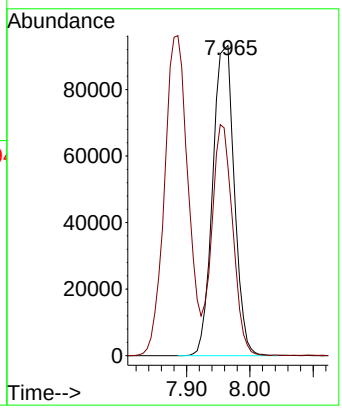


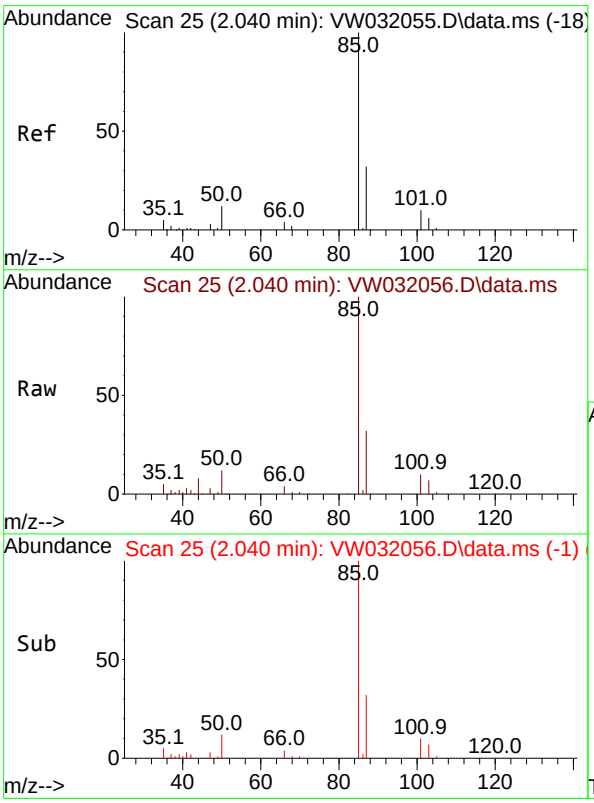
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 221384

Ion	Ratio	Lower	Upper
168	100		
99	60.8	56.0	84.0

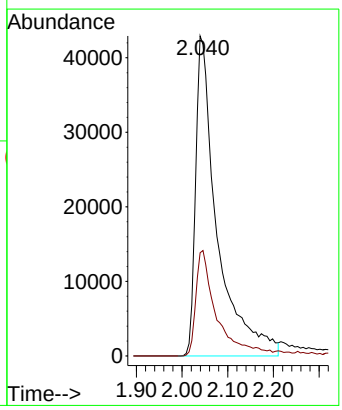


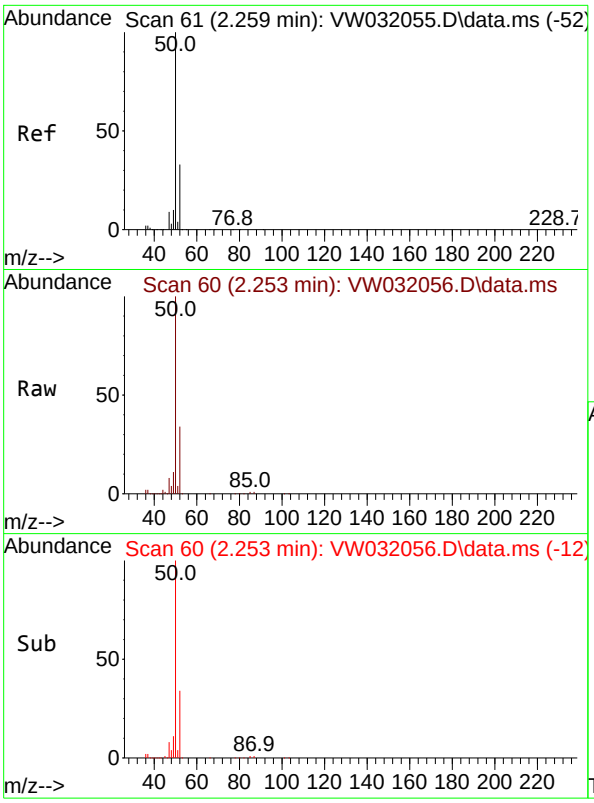


#2
Dichlorodifluoromethane
Concen: 88.627 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 85 Resp: 140330

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6



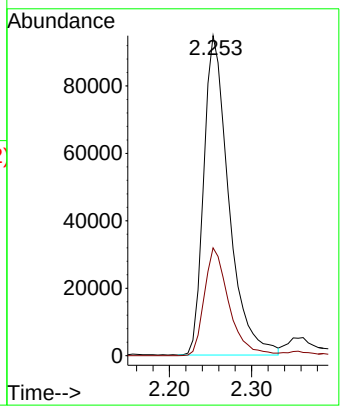


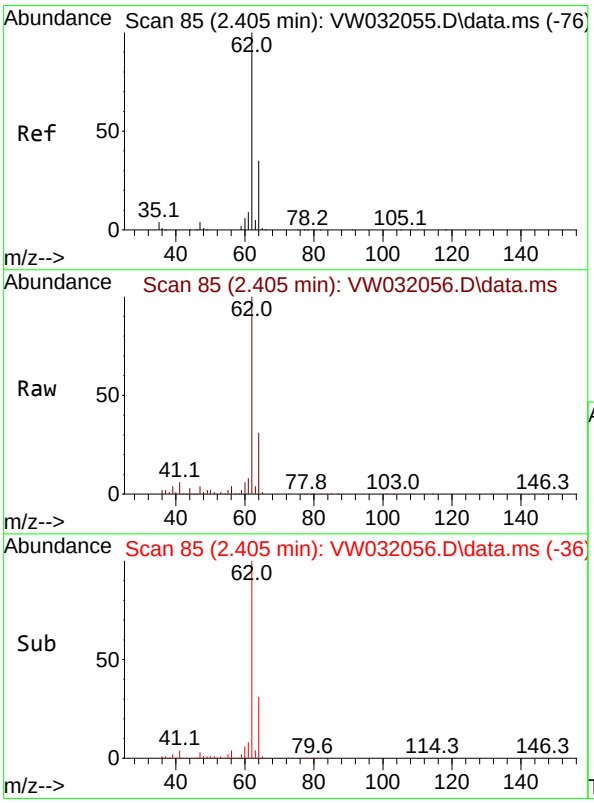
#3
Chloromethane
Concen: 93.894 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 200261

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.6	39.8

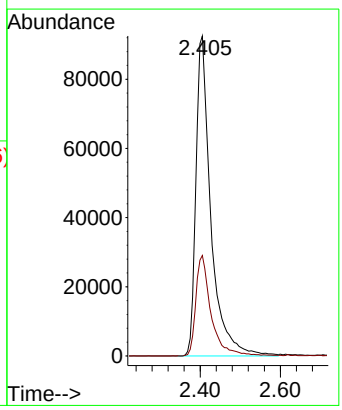


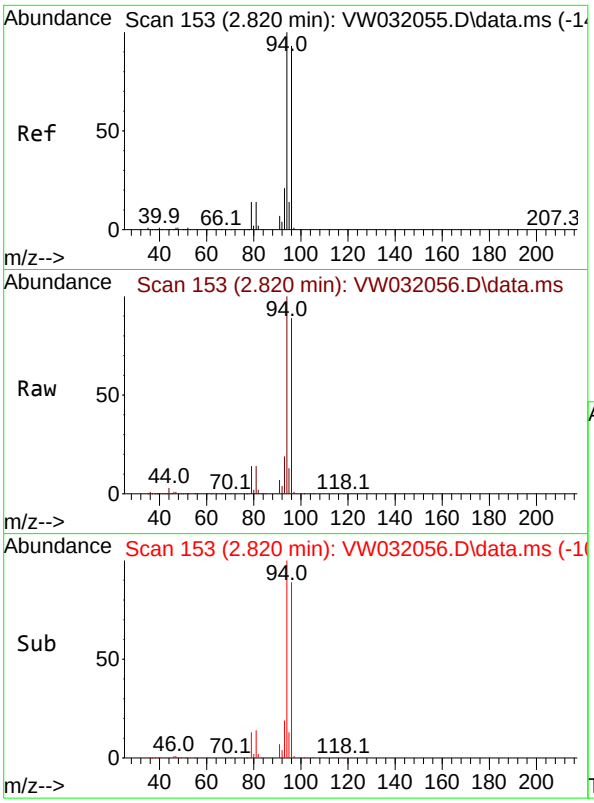


#4
Vinyl Chloride
Concen: 92.654 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 239040

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.8	41.6



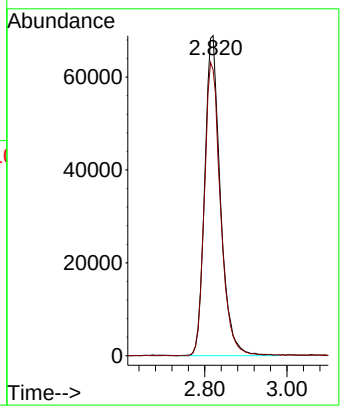


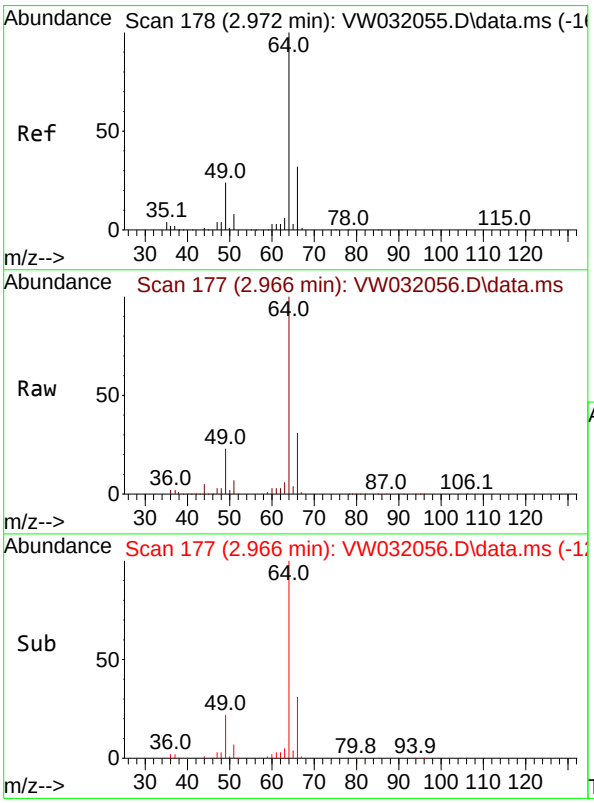
#5
Bromomethane
Concen: 94.386 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 182687

Ion	Ratio	Lower	Upper
94	100		
96	89.4	74.7	112.1

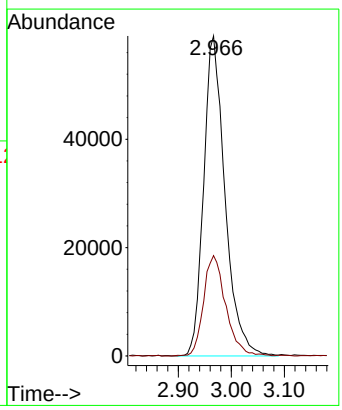


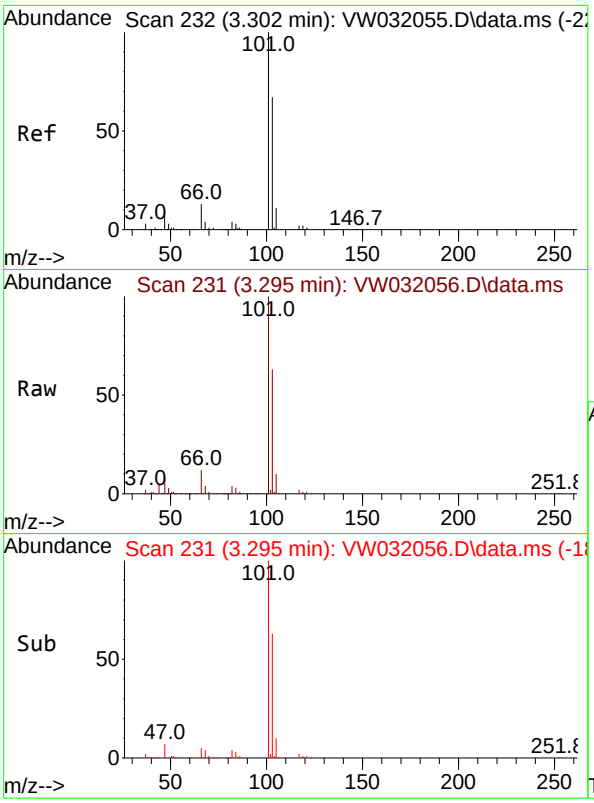


#6
Chloroethane
Concen: 96.628 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 64 Resp: 164961

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.0	39.0



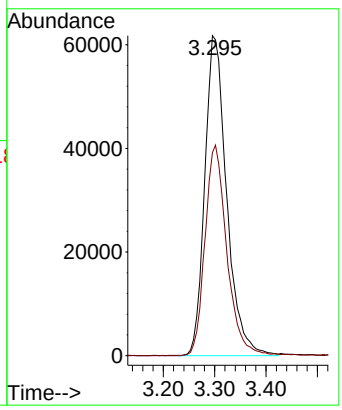


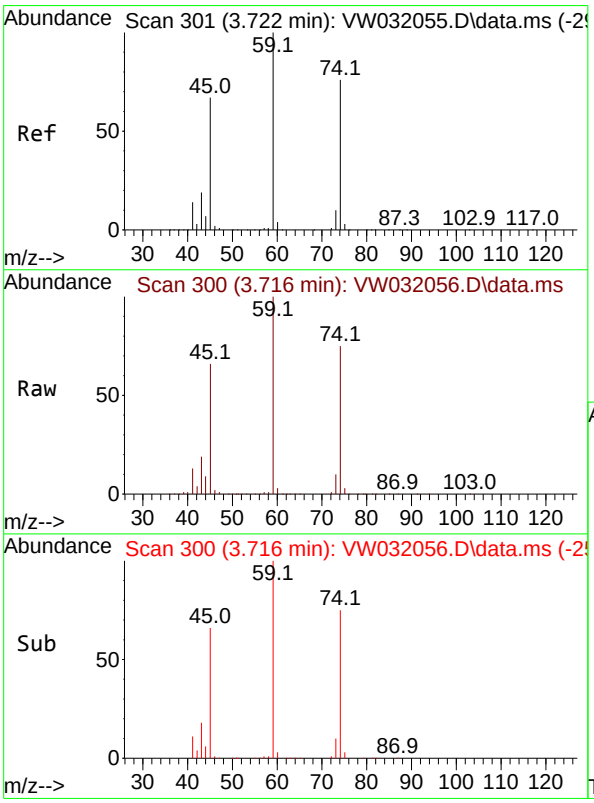
#7
Trichlorofluoromethane
Concen: 88.382 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 182663

Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.4	80.0

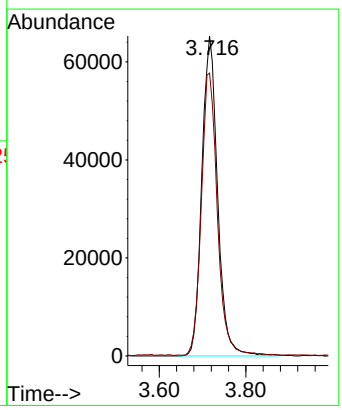


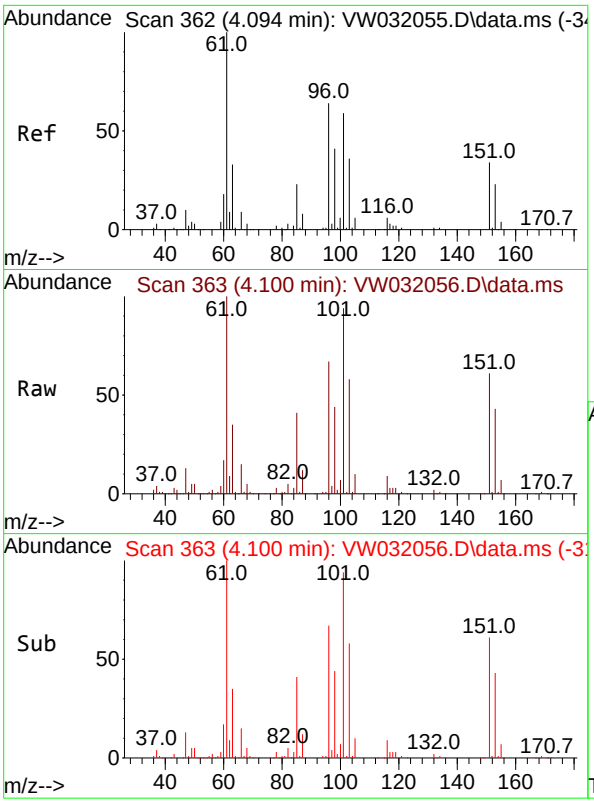


#8
Diethyl Ether
Concen: 97.227 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 74 Resp: 164632

Ion	Ratio	Lower	Upper
74	100		
45	90.1	45.4	136.2



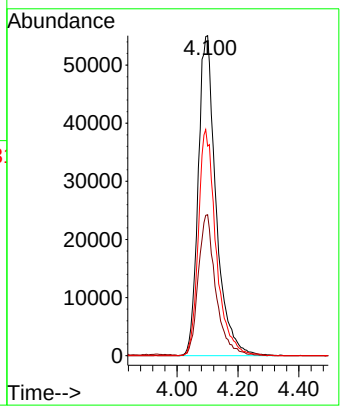


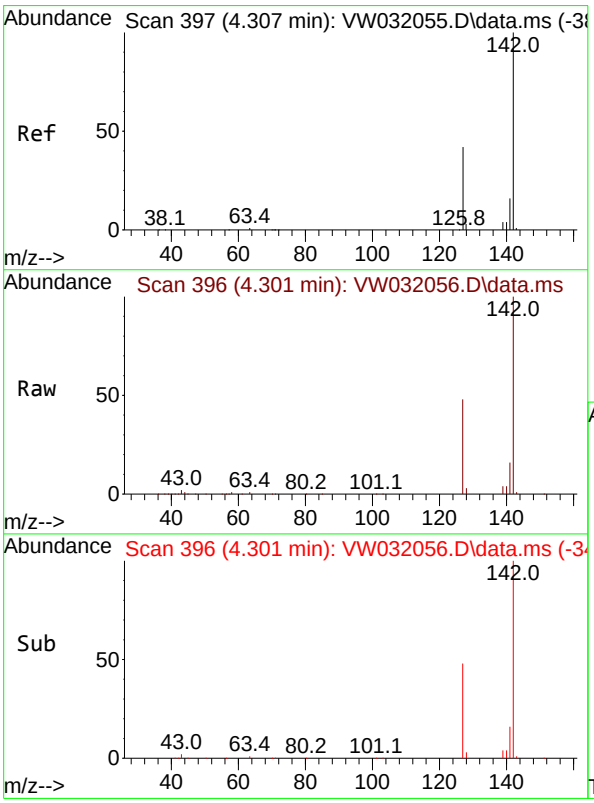
#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.988 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 224293

Ion	Ratio	Lower	Upper
101	100		
85	43.3	34.9	52.3
151	70.2	56.2	84.4

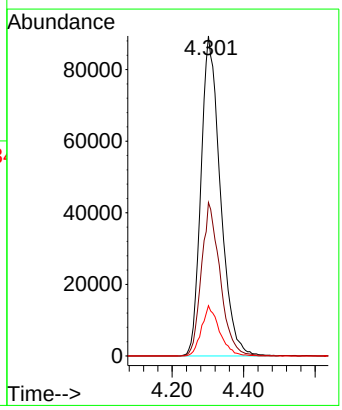


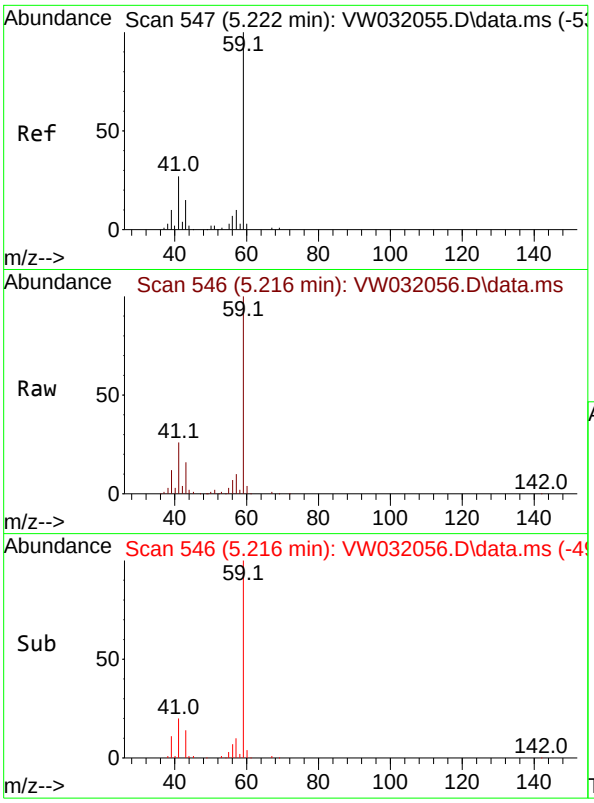


#10
Methyl Iodide
Concen: 97.237 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:142 Resp: 336162

Ion	Ratio	Lower	Upper
142	100		
127	46.2	36.6	55.0
141	14.5	12.1	18.1



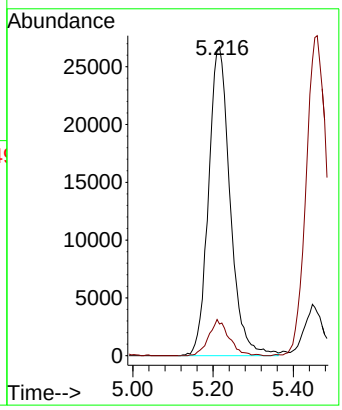


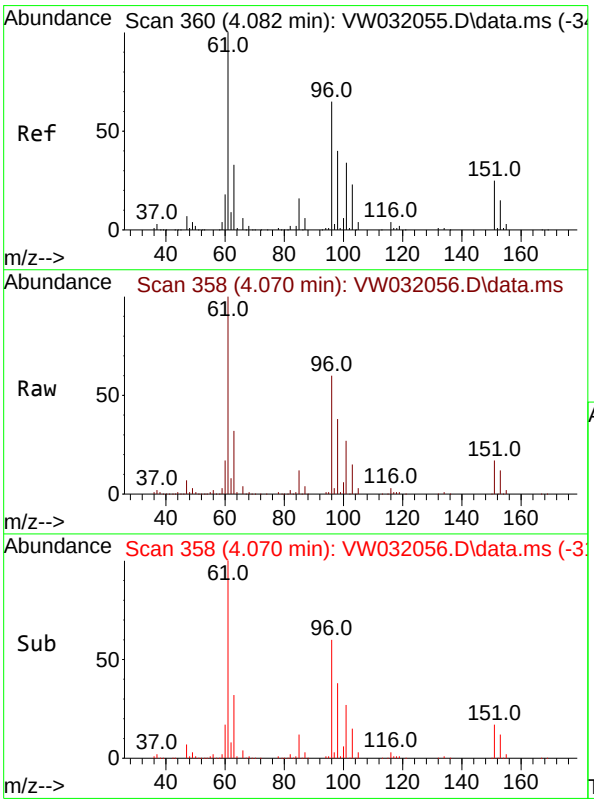
#11
Tert butyl alcohol
Concen: 480.735 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 99671

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

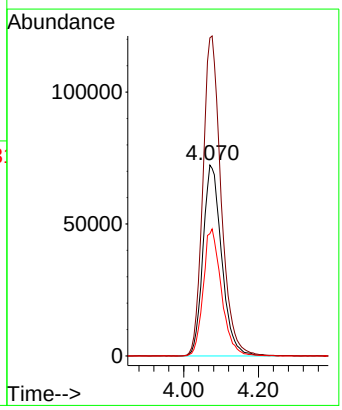


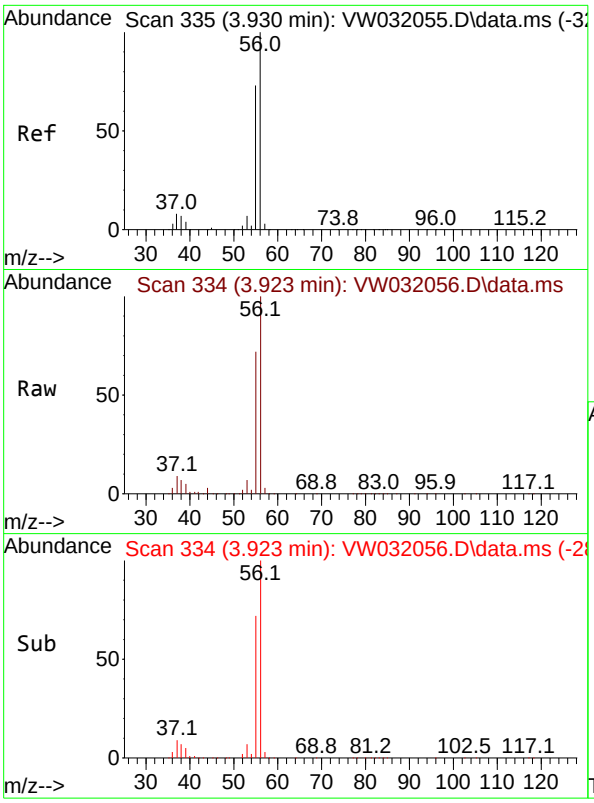


#12
1,1-Dichloroethene
Concen: 93.615 ug/l
RT: 4.070 min Scan# 358
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 251341

Ion	Ratio	Lower	Upper
96	100		
61	166.5	123.4	185.2
98	64.0	49.5	74.3



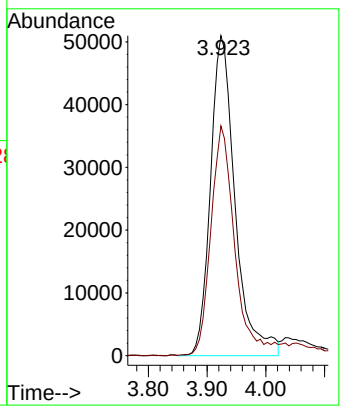


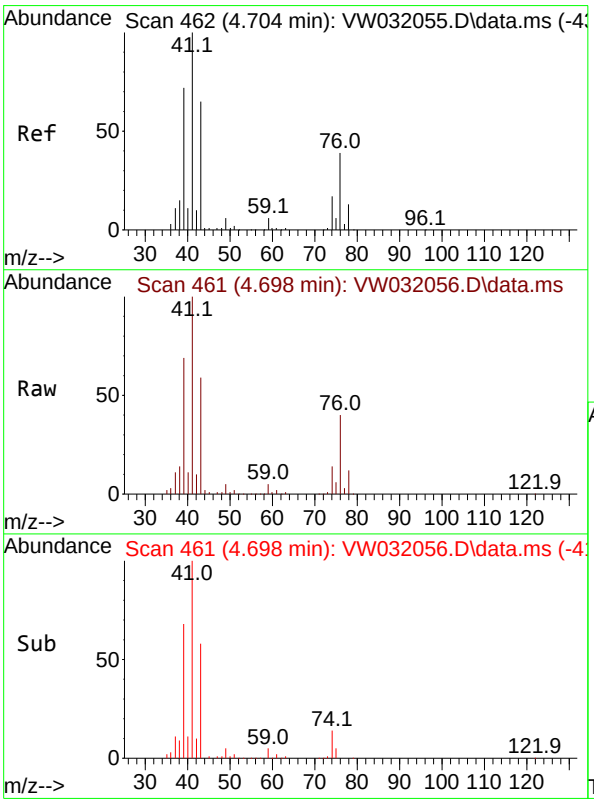
#13
Acrolein
Concen: 449.230 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 148403

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.4	83.2

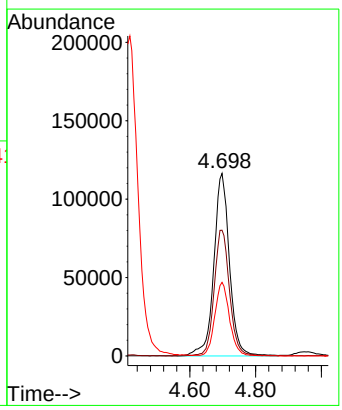


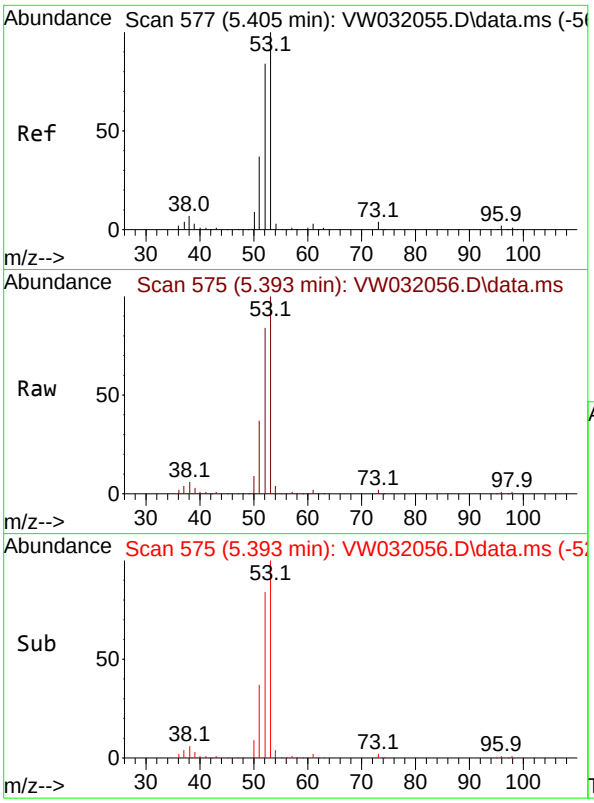


#14
Allyl chloride
Concen: 98.543 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 385062

Ion	Ratio	Lower	Upper
41	100		
39	67.5	54.5	81.7
76	37.8	29.3	43.9



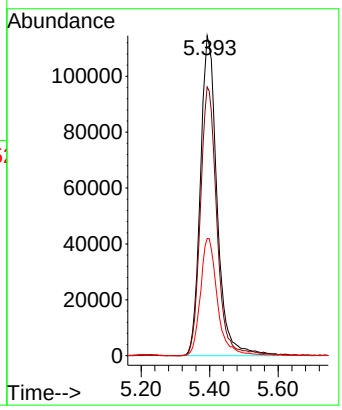


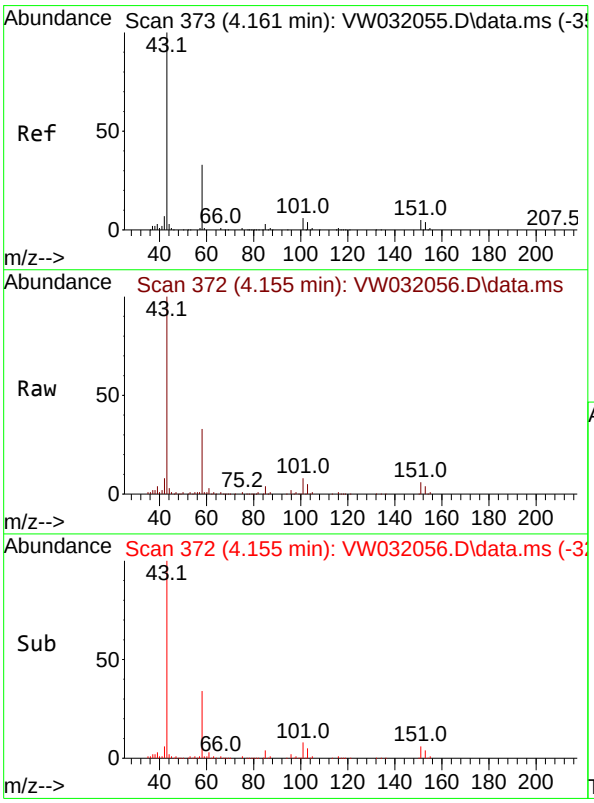
#15
Acrylonitrile
Concen: 481.445 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 388290

Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.1	99.1
51	37.3	29.2	43.8

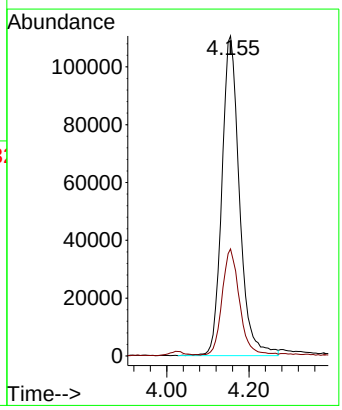


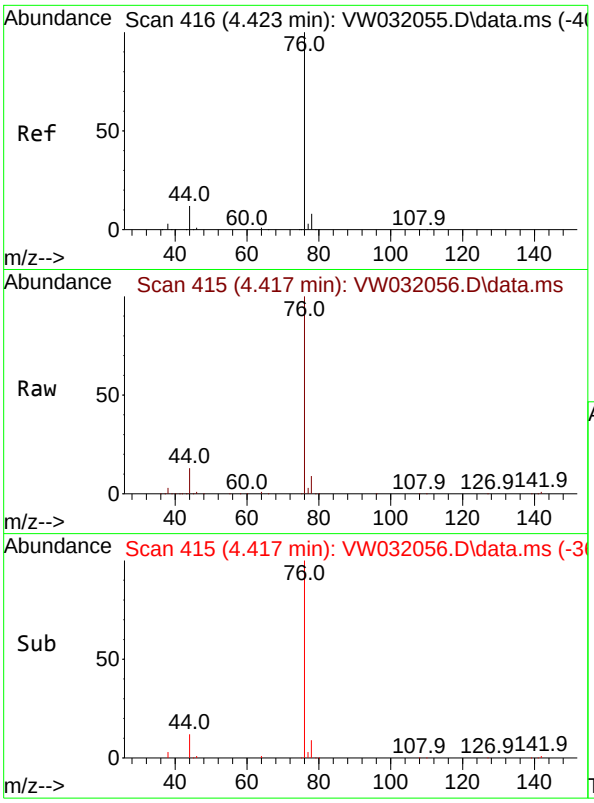


#16
Acetone
Concen: 443.358 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 328664

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8



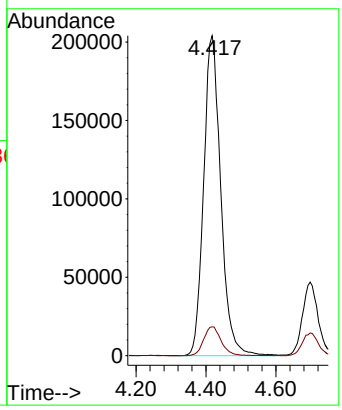


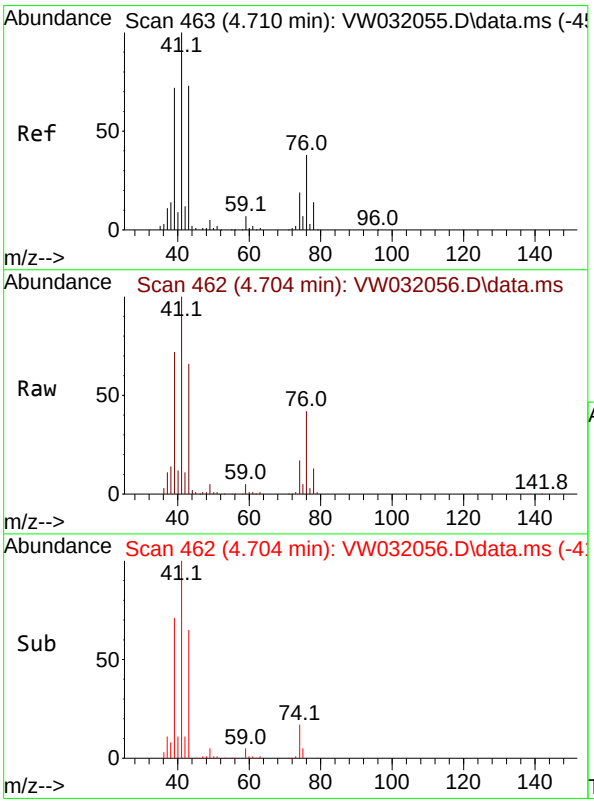
#17
Carbon Disulfide
Concen: 96.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 693616

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6

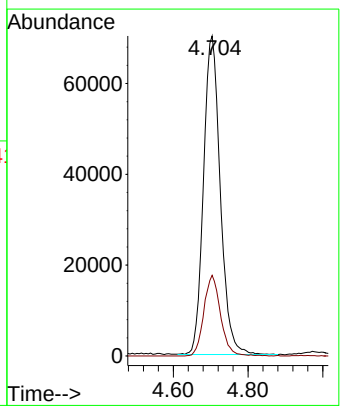


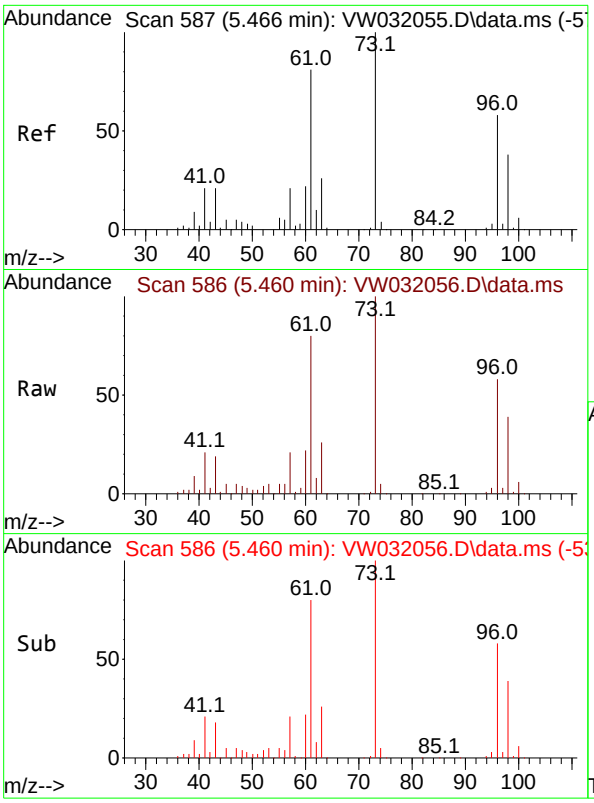


#18
Methyl Acetate
Concen: 93.230 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 218695

Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.6	31.0



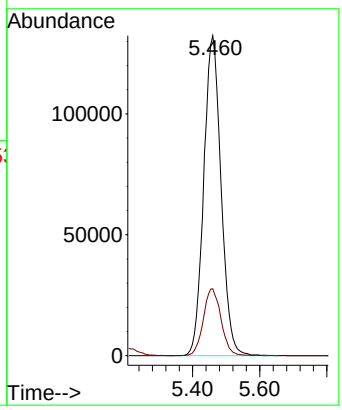


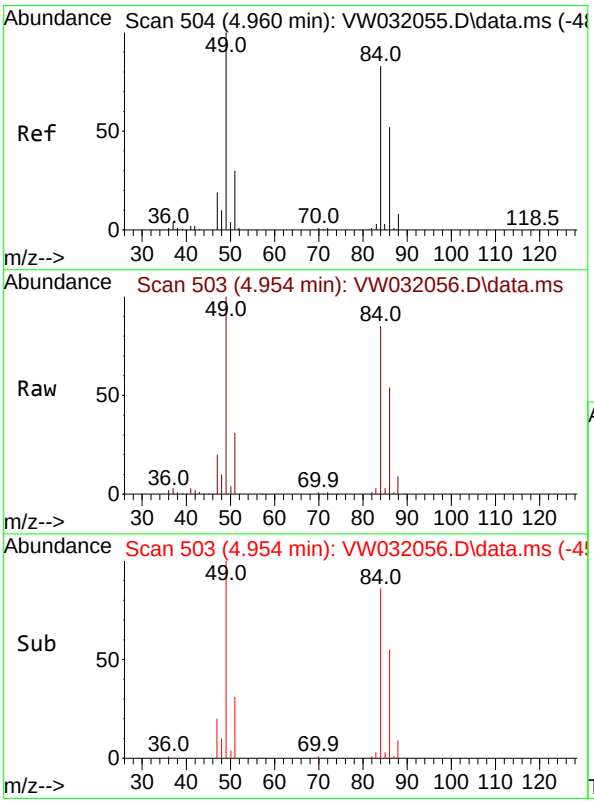
#19
Methyl tert-butyl Ether
Concen: 100.184 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 473924

Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.2	25.8

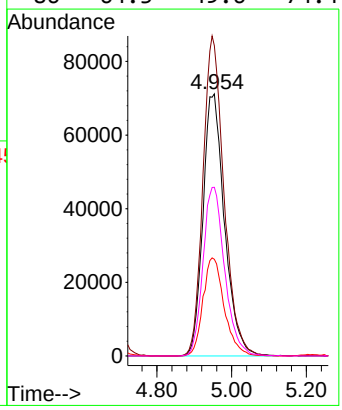


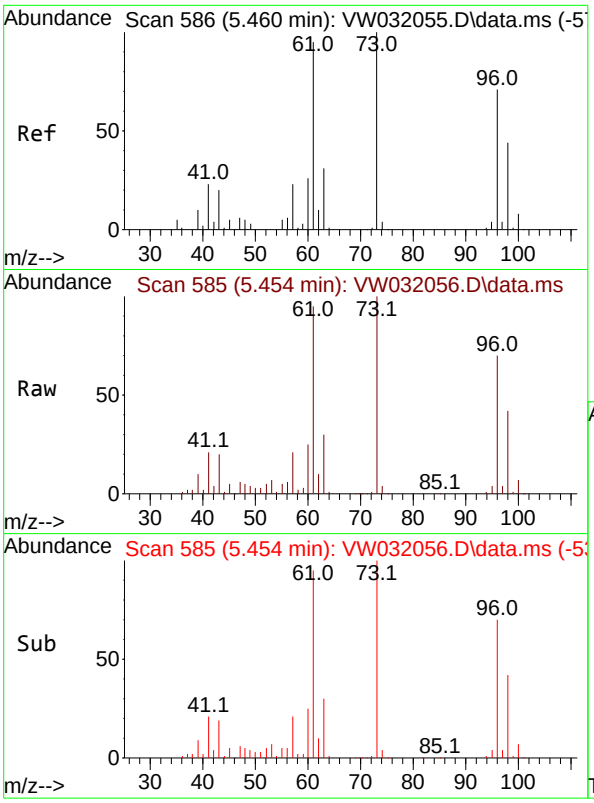


#20
Methylene Chloride
Concen: 83.165 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 84 Resp: 285049

Ion	Ratio	Lower	Upper
84	100		
49	118.3	95.9	143.9
51	36.8	28.6	43.0
86	64.3	49.6	74.4



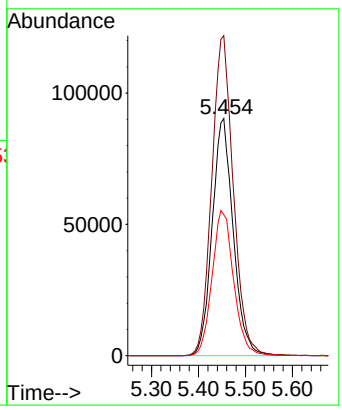


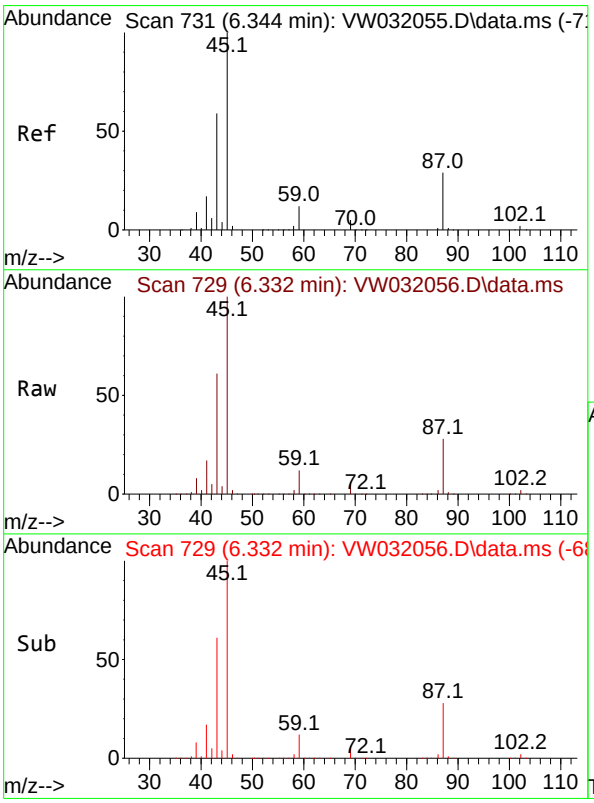
#21
trans-1,2-Dichloroethene
Concen: 98.787 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 281466

Ion	Ratio	Lower	Upper
96	100		
61	135.0	106.8	160.2
98	59.5	49.6	74.4

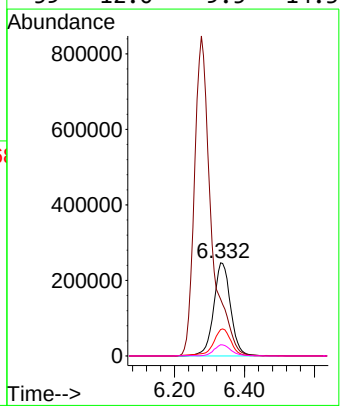


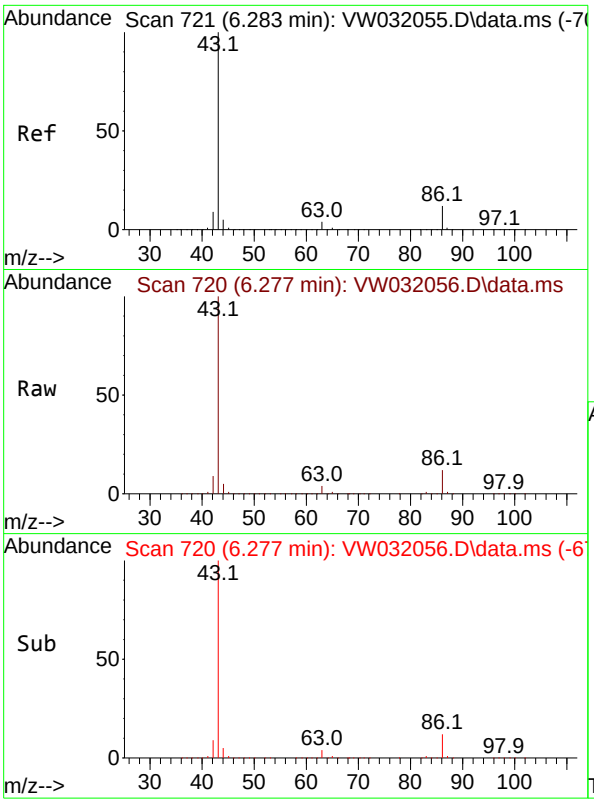


#22
Diisopropyl ether
Concen: 100.722 ug/l
RT: 6.332 min Scan# 729
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 45 Resp: 829703

Ion	Ratio	Lower	Upper
45	100		
43	60.8	47.0	70.4
87	28.3	23.8	35.8
59	12.0	9.5	14.3



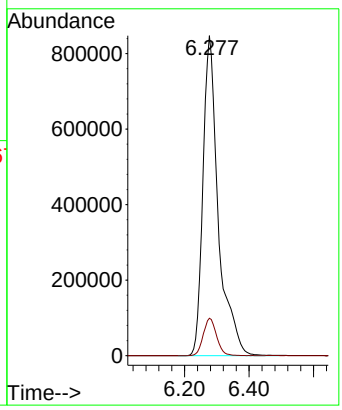


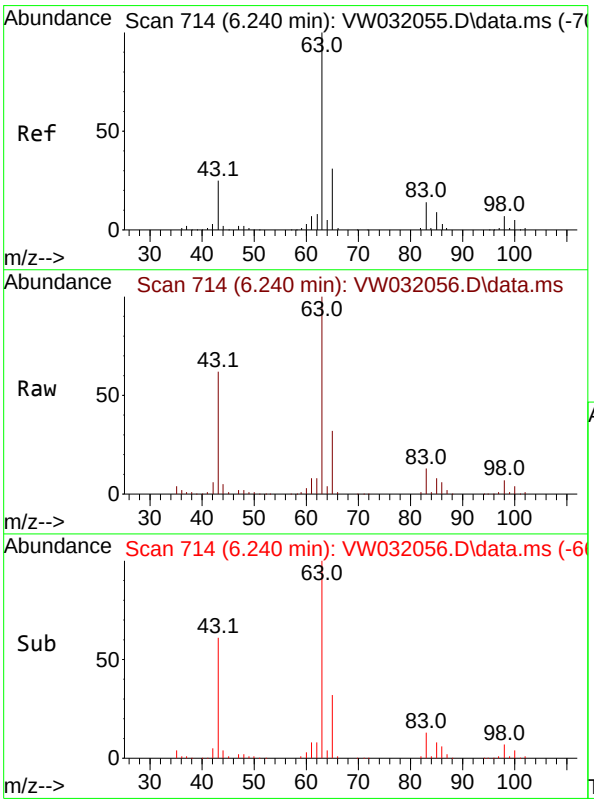
#23
Vinyl Acetate
Concen: 518.312 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2803250

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

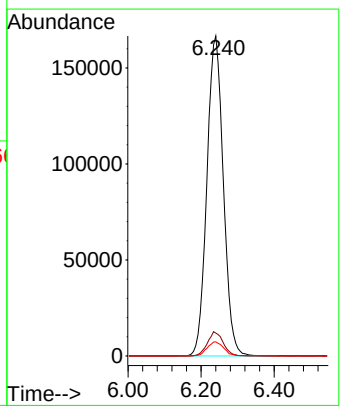


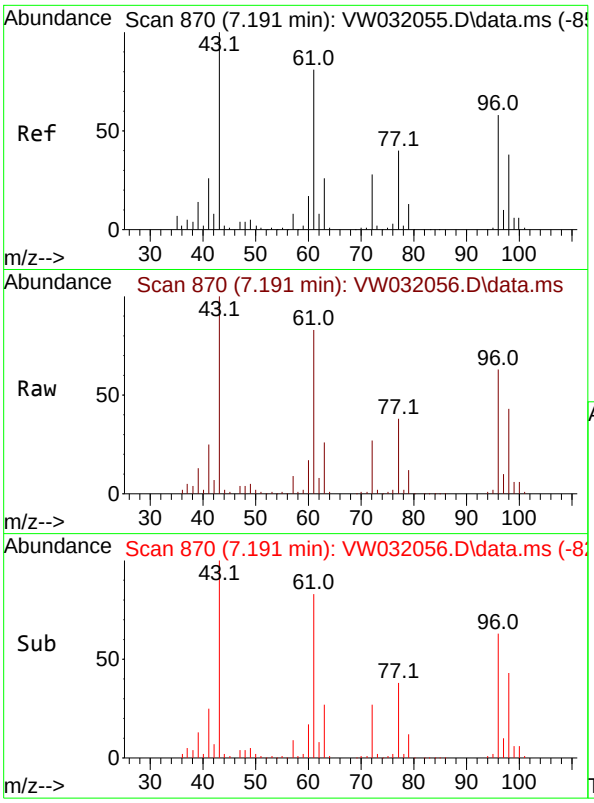


#24
1,1-Dichloroethane
Concen: 98.678 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 519360

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.7	11.1
100	4.4	2.5	7.4



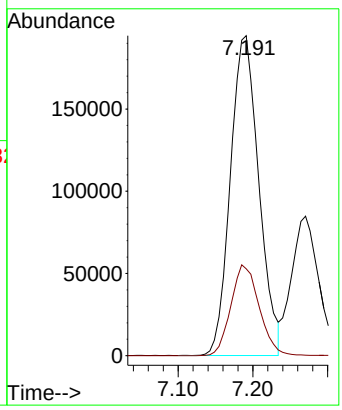


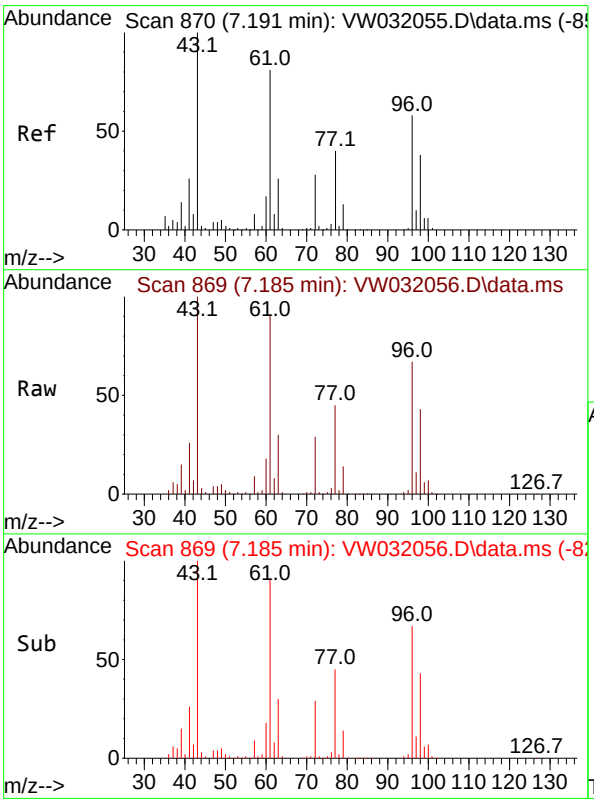
#25
2-Butanone
Concen: 489.508 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 515739

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5

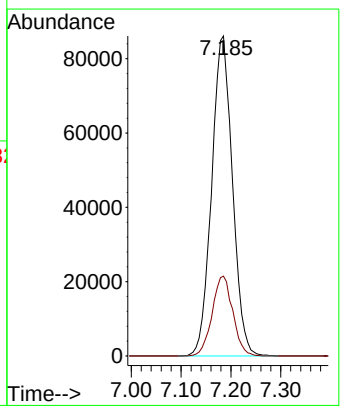


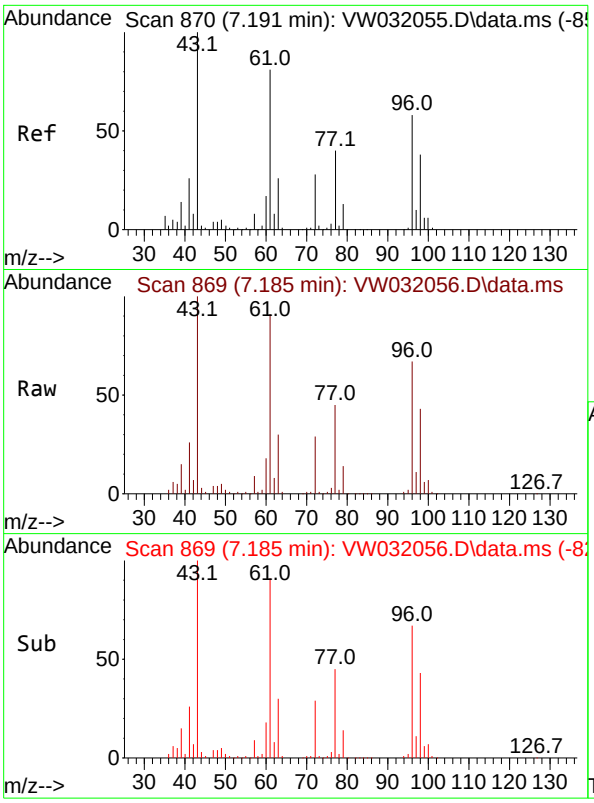


#26
2,2-Dichloropropane
Concen: 94.405 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 77 Resp: 249271

Ion	Ratio	Lower	Upper
77	100		
97	24.8	12.3	36.9



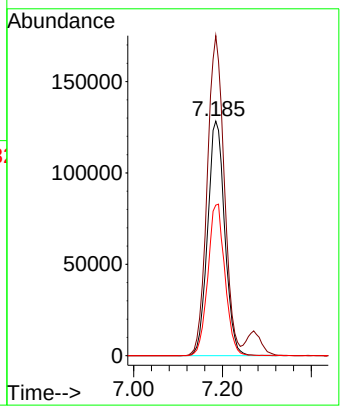


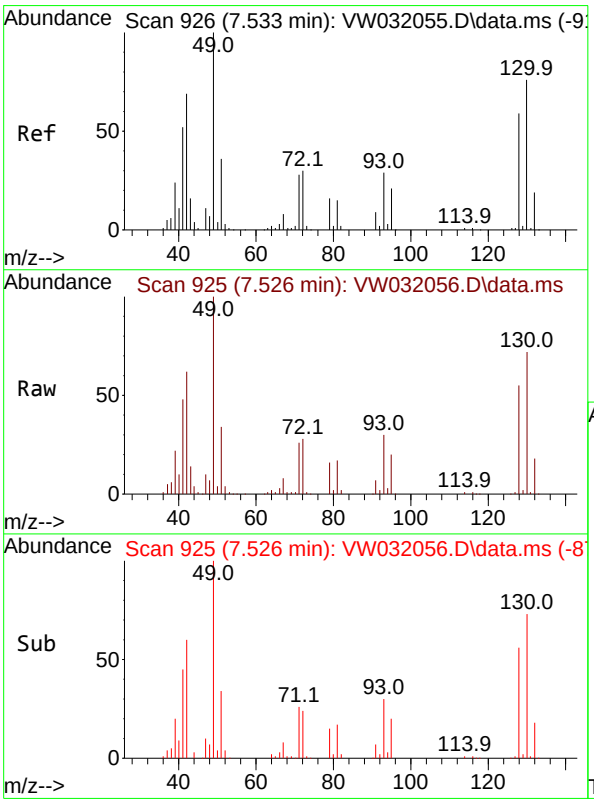
#27
cis-1,2-Dichloroethene
Concen: 103.016 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 343091

Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	281.2
98	64.5	0.0	130.8

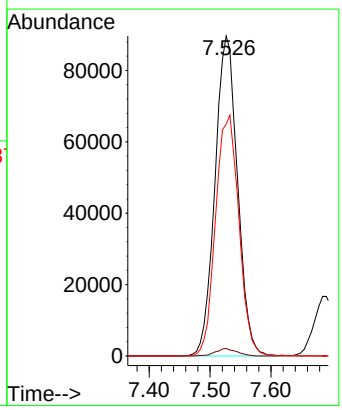


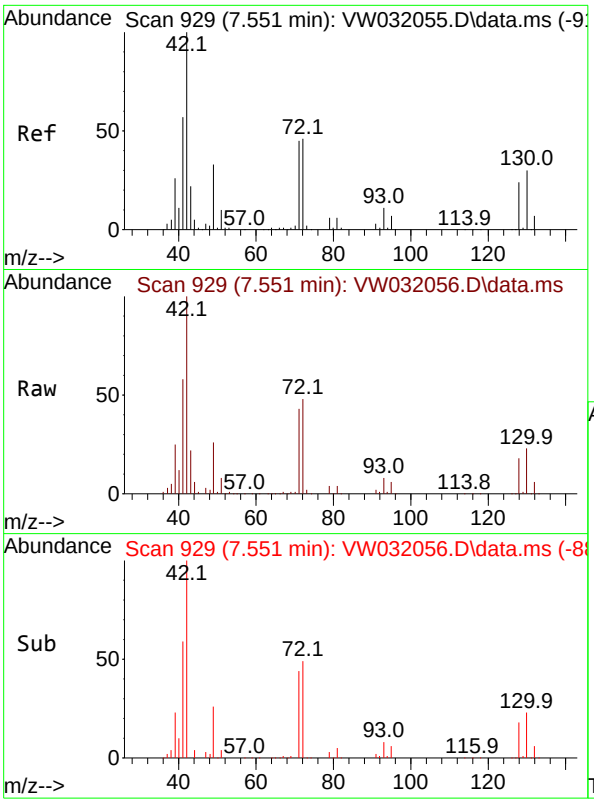


#28
Bromochloromethane
Concen: 96.333 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 49 Resp: 230727

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.8	61.9	92.9



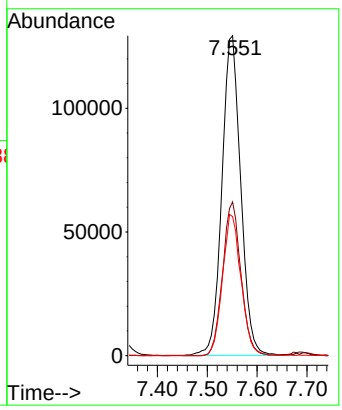


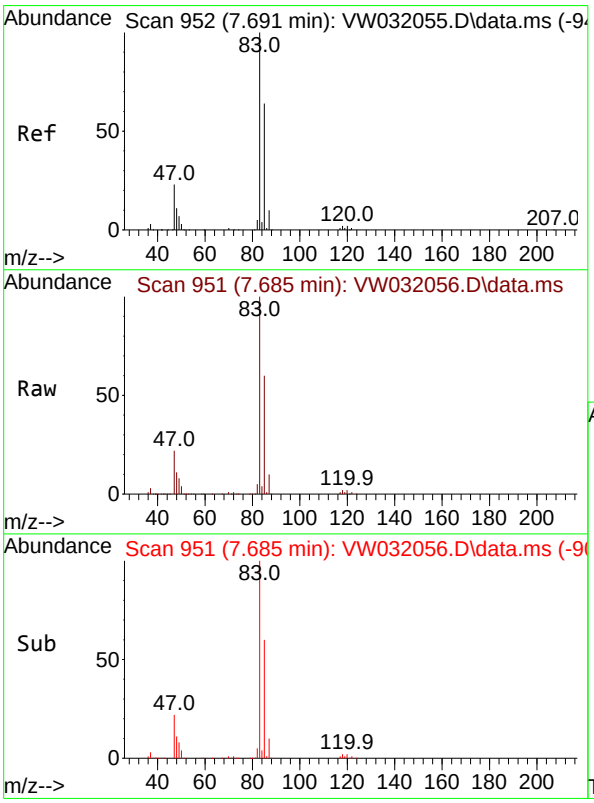
#29
Tetrahydrofuran
Concen: 487.284 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 338578

Ion	Ratio	Lower	Upper
42	100		
72	47.0	36.6	55.0
71	43.6	34.7	52.1

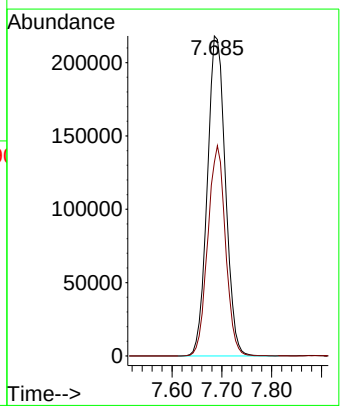


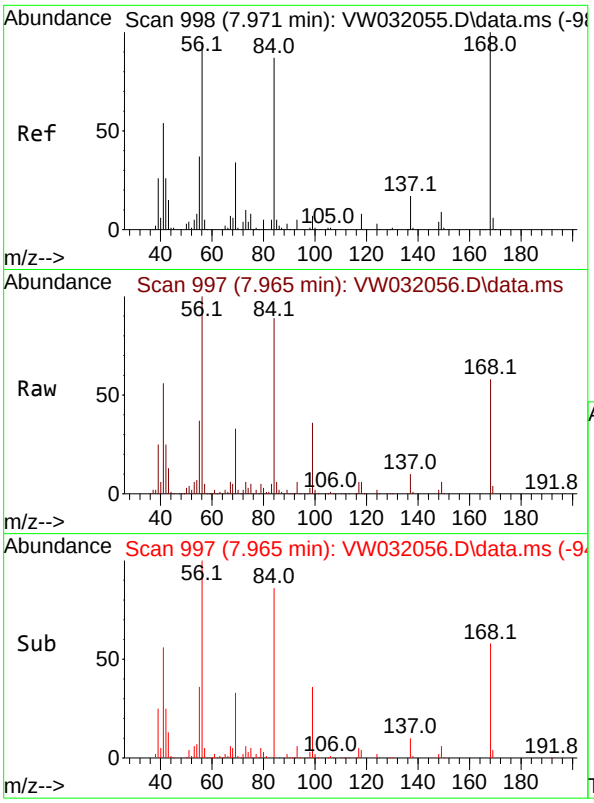


#30
Chloroform
Concen: 98.613 ug/l
RT: 7.685 min Scan# 951
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 550232

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.0	76.4



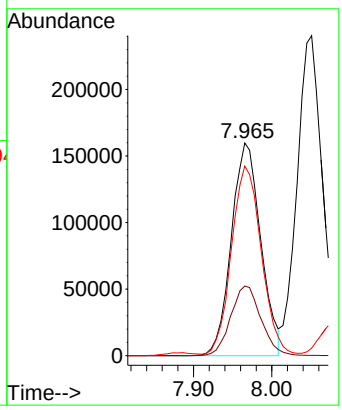


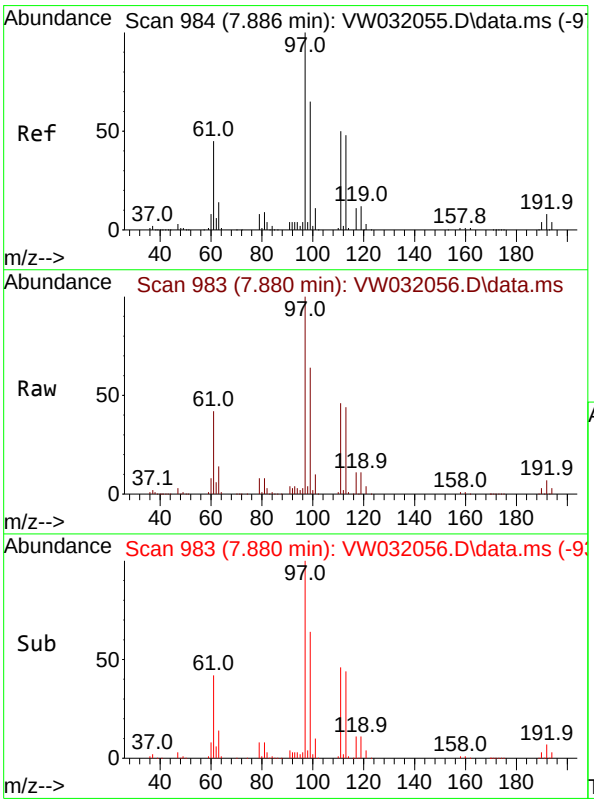
#31
Cyclohexane
Concen: 91.292 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 416558

Ion	Ratio	Lower	Upper
56	100		
69	32.8	28.6	42.8
84	87.9	73.0	109.4

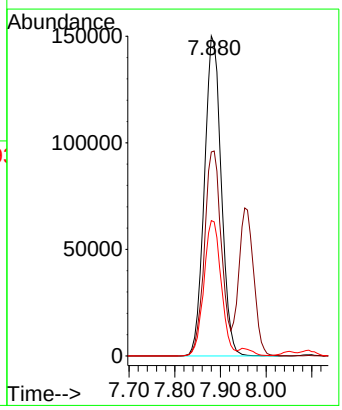


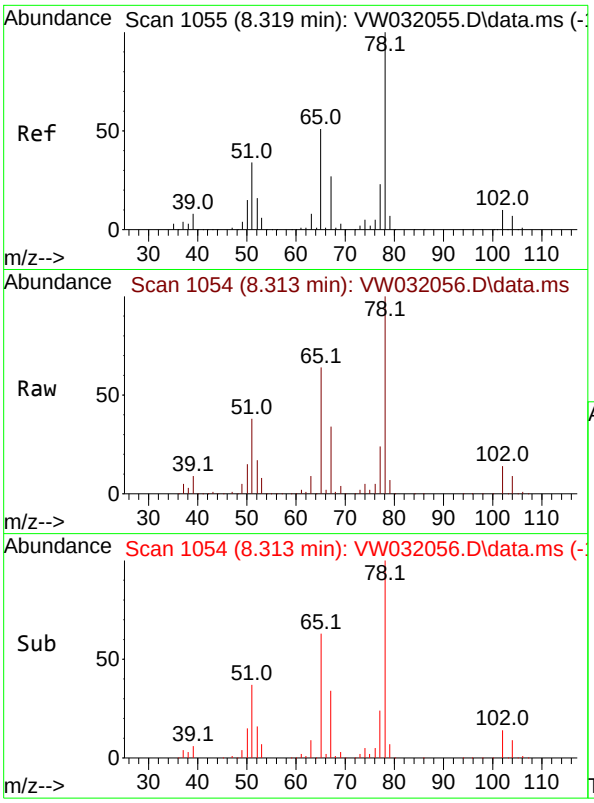


#32
1,1,1-Trichloroethane
Concen: 94.913 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 97 Resp: 384671

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.8
61	43.3	35.9	53.9



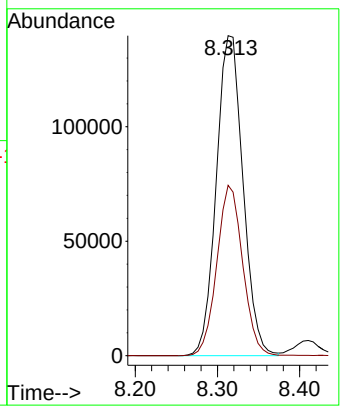


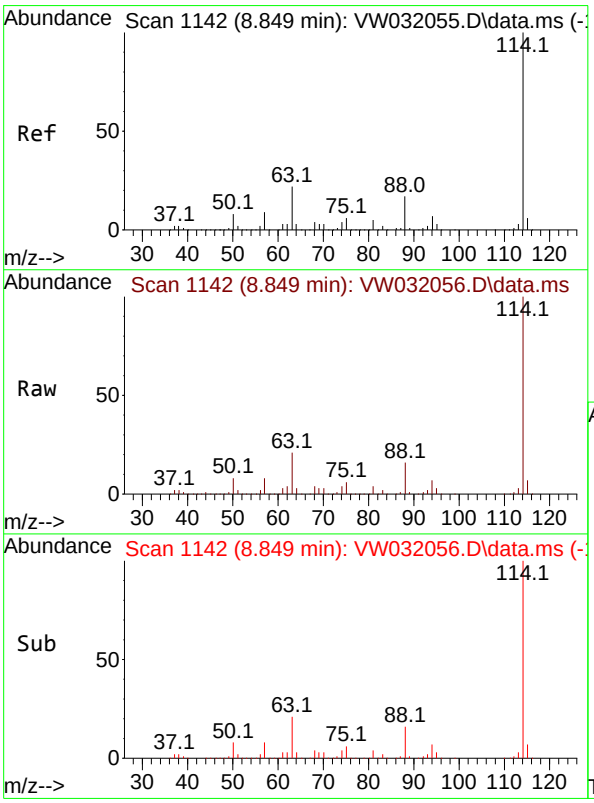
#33
1,2-Dichloroethane-d4
Concen: 98.509 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 315411

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.4

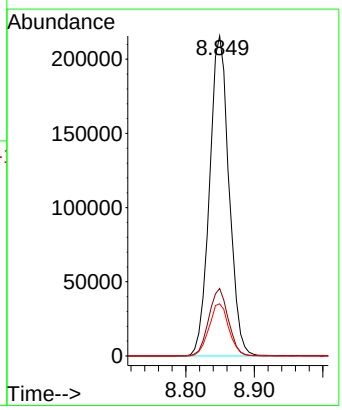


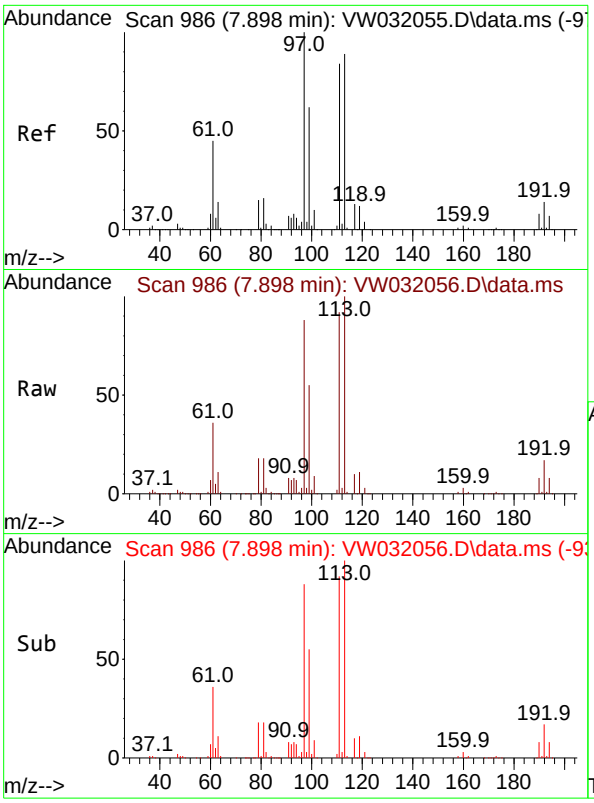


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:114 Resp: 424901

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.0
88	16.3	0.0	33.8



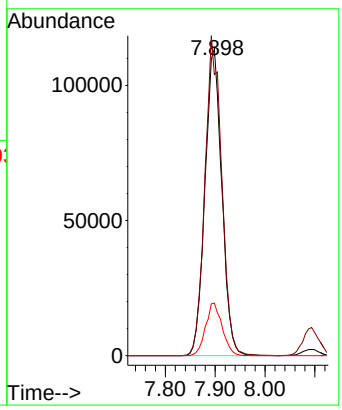


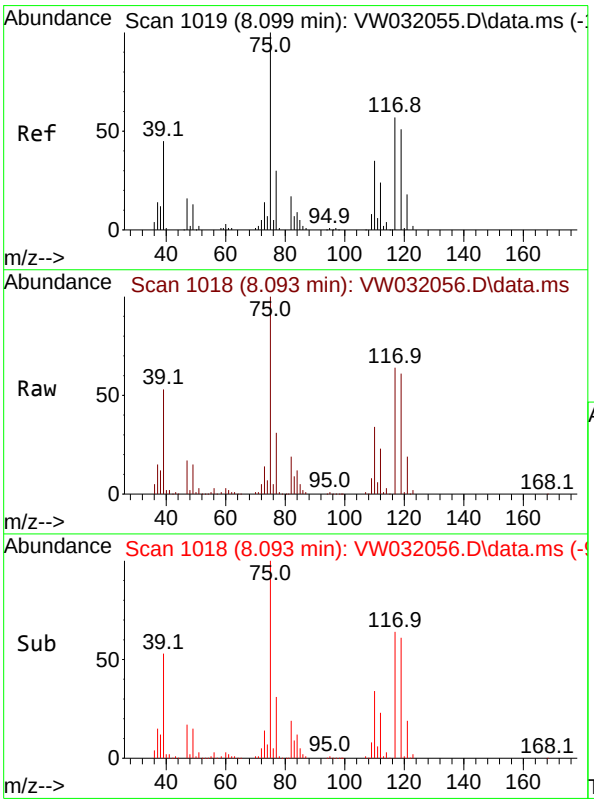
#35
Dibromofluoromethane
Concen: 96.945 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 266117

Ion	Ratio	Lower	Upper
113	100		
111	104.0	80.1	120.1
192	16.9	13.1	19.7

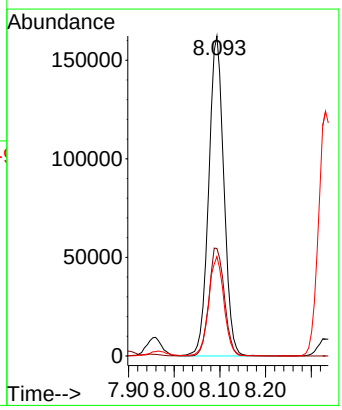


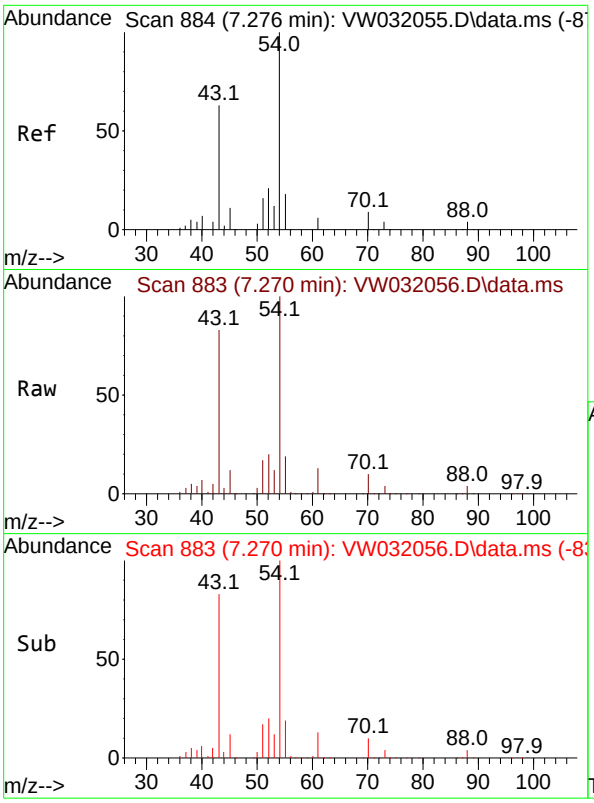


#36
1,1-Dichloropropene
Concen: 96.444 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 373215

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.4	52.2
77	31.3	24.7	37.1



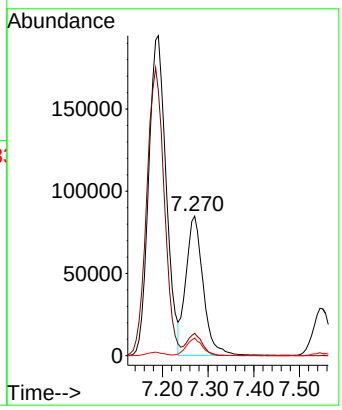


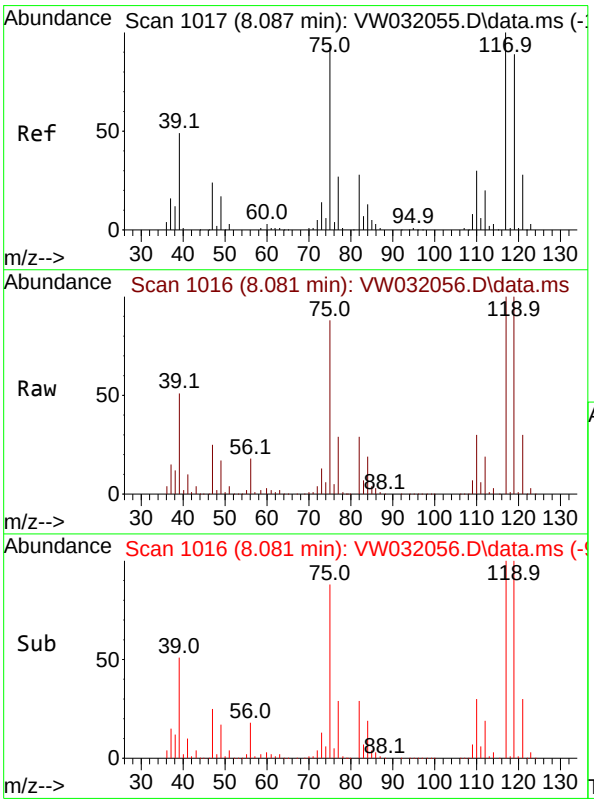
#37
Ethyl Acetate
Concen: 97.375 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 221929

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.8	17.6
70	11.5	9.4	14.0

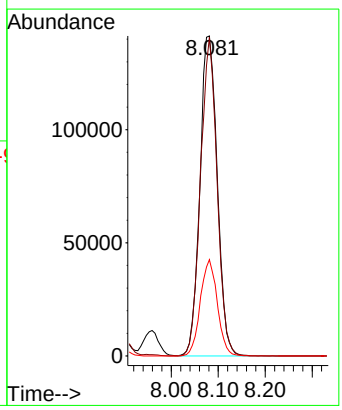


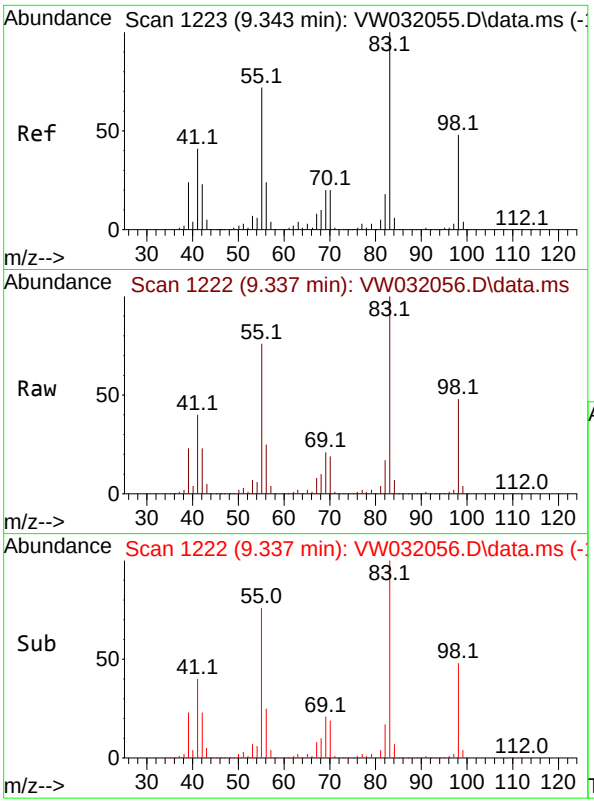


#38
Carbon Tetrachloride
Concen: 97.035 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 362373

Ion	Ratio	Lower	Upper
117	100		
119	99.6	71.4	107.2
121	30.1	22.3	33.5



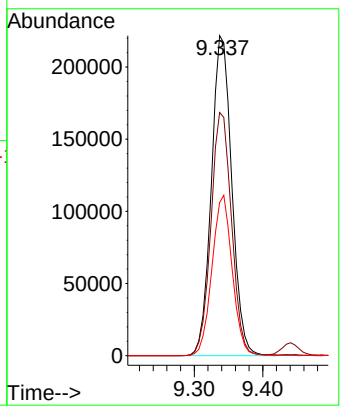


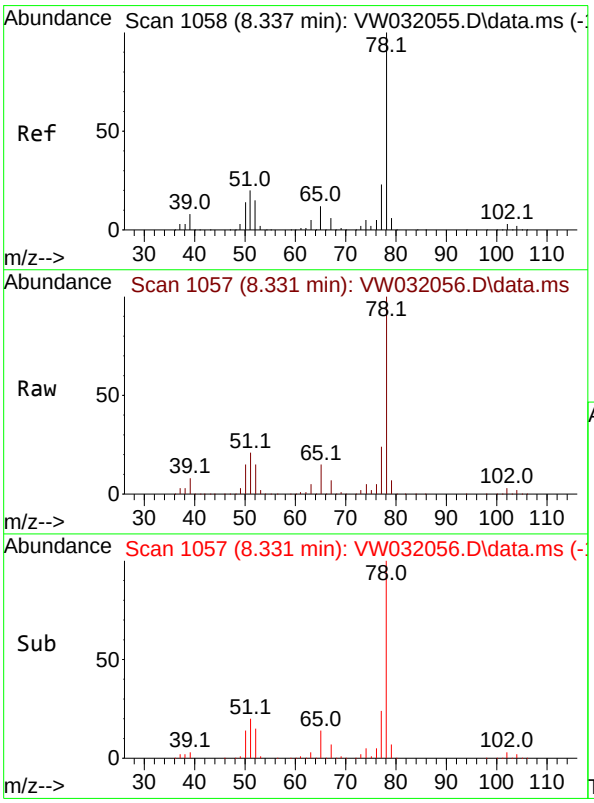
#39
Methylcyclohexane
Concen: 97.342 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 459134

Ion	Ratio	Lower	Upper
83	100		
55	76.0	57.9	86.9
98	47.8	38.3	57.5

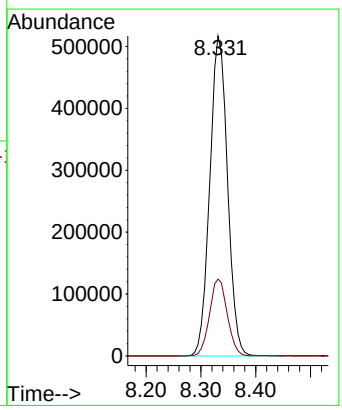


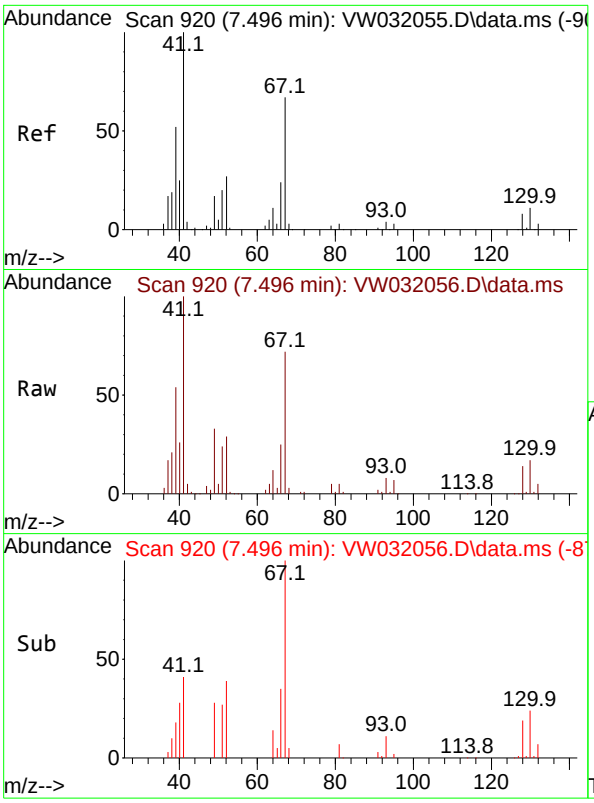


#40
Benzene
Concen: 96.444 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 78 Resp: 1160107

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6



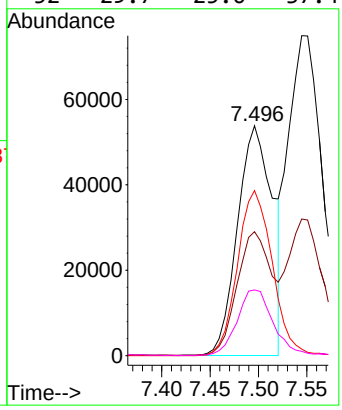


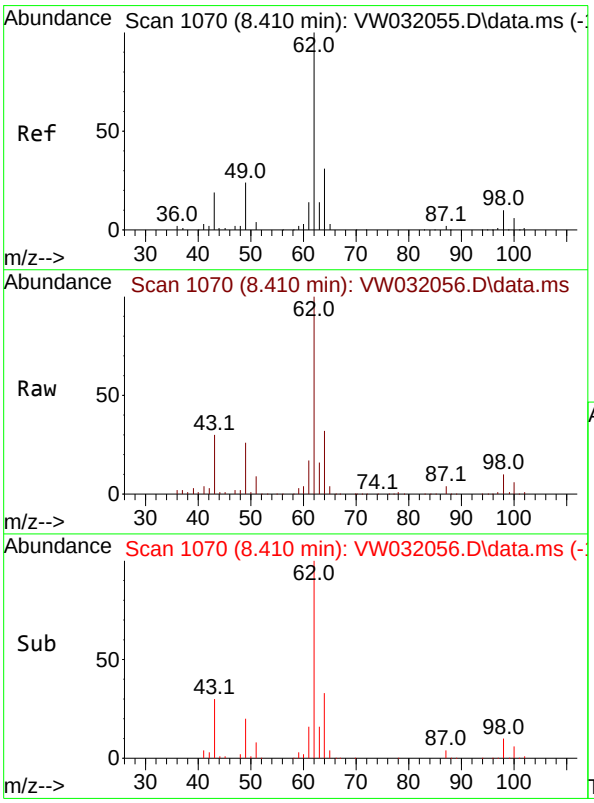
#41
Methacrylonitrile
Concen: 105.048 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 135773

Ion	Ratio	Lower	Upper
41	100		
39	53.6	42.6	63.8
67	71.7	61.0	91.4
52	29.7	25.0	37.4

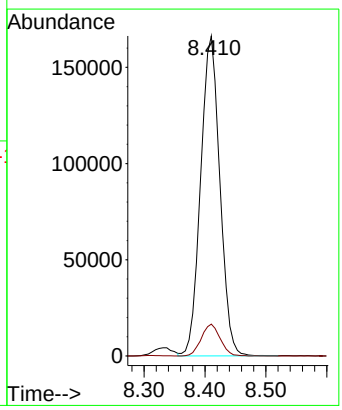


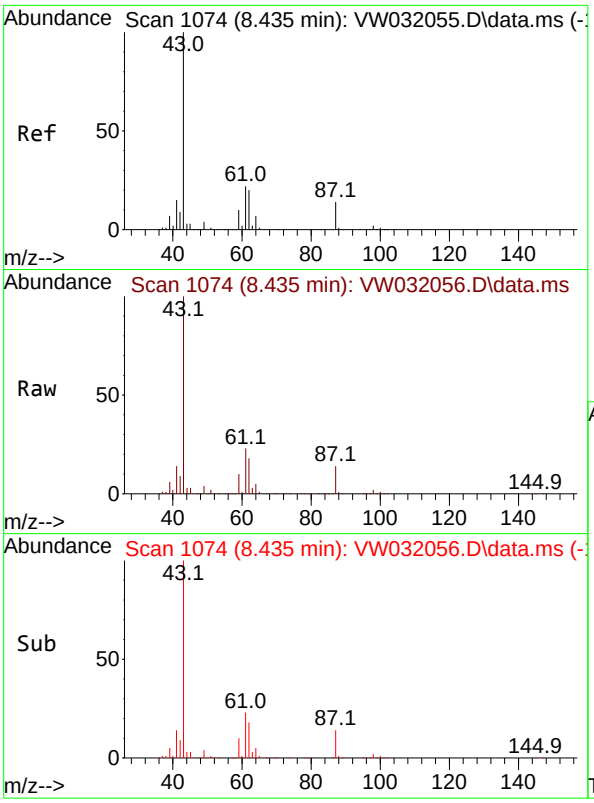


#42
1,2-Dichloroethane
Concen: 94.743 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 364674

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8



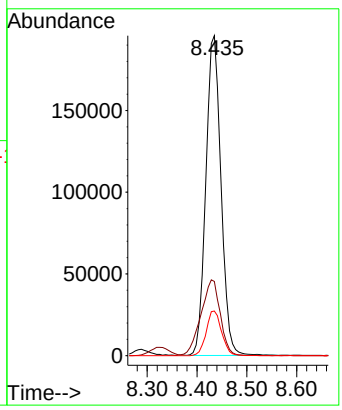


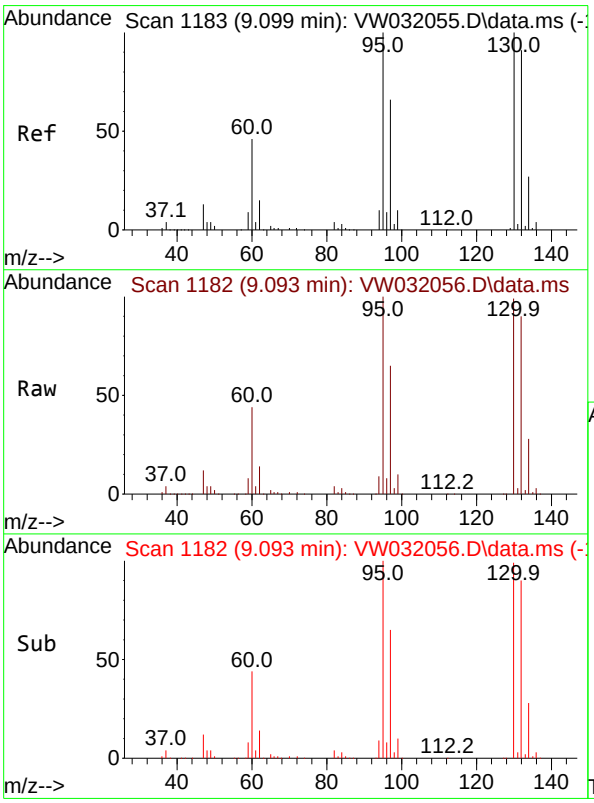
#43
Isopropyl Acetate
Concen: 98.543 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 413211

Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.8
87	14.2	11.7	17.5

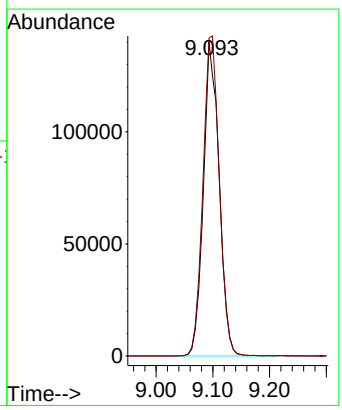


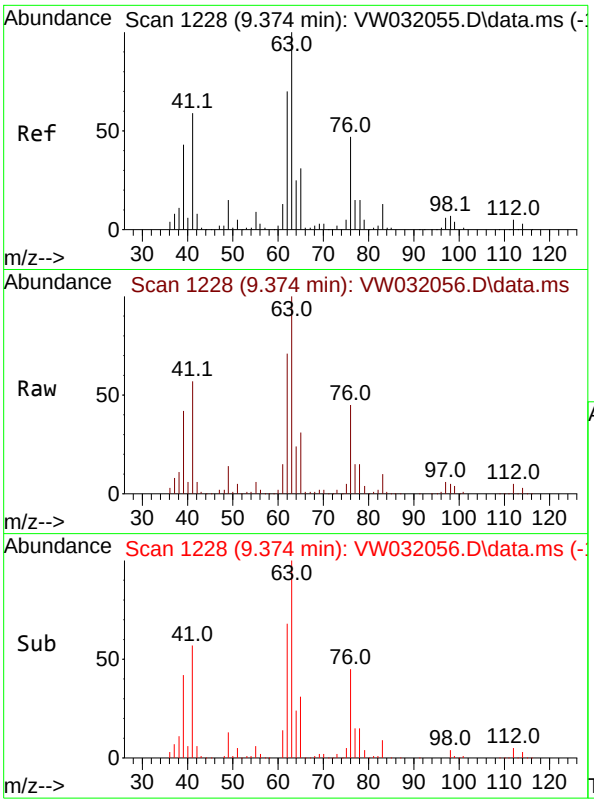


#44
Trichloroethene
Concen: 94.602 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:130 Resp: 270995

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	200.6



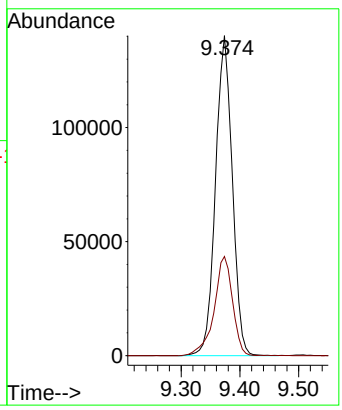


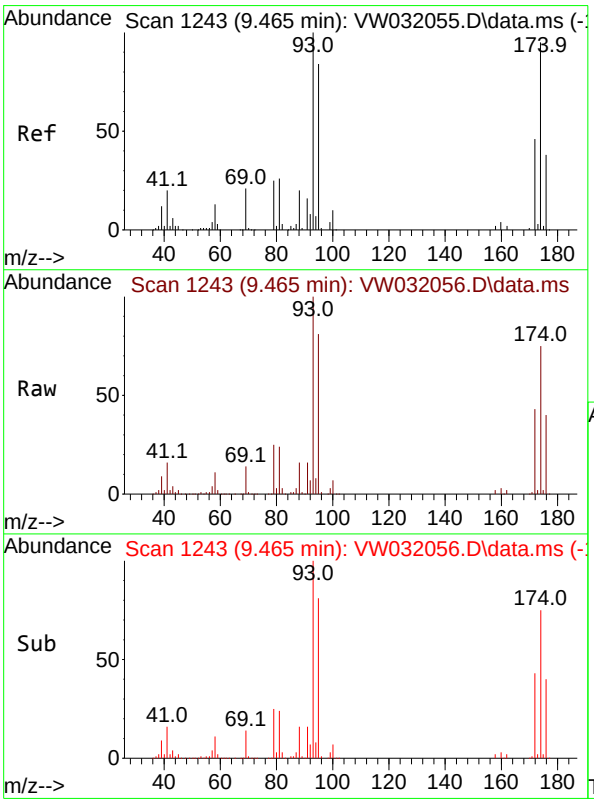
#45
1,2-Dichloropropane
Concen: 95.707 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 278124

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	36.8

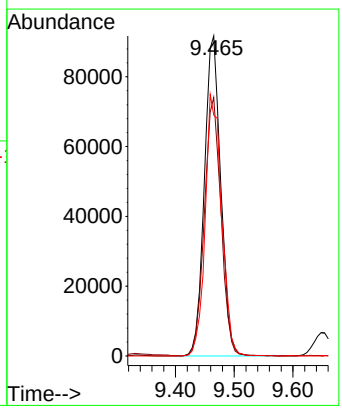


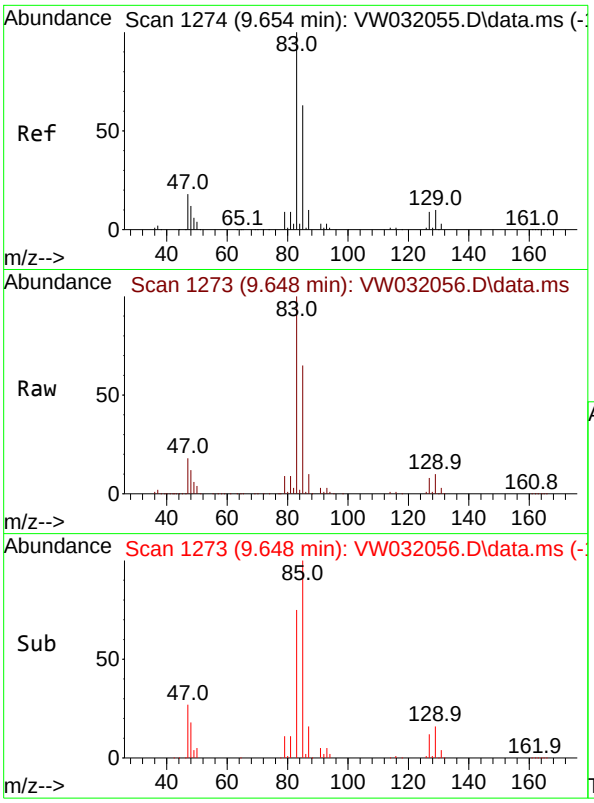


#46
Dibromomethane
Concen: 94.888 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 93 Resp: 177966

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.3	97.9
174	82.0	68.6	102.8



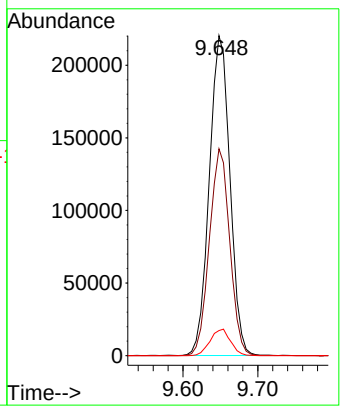


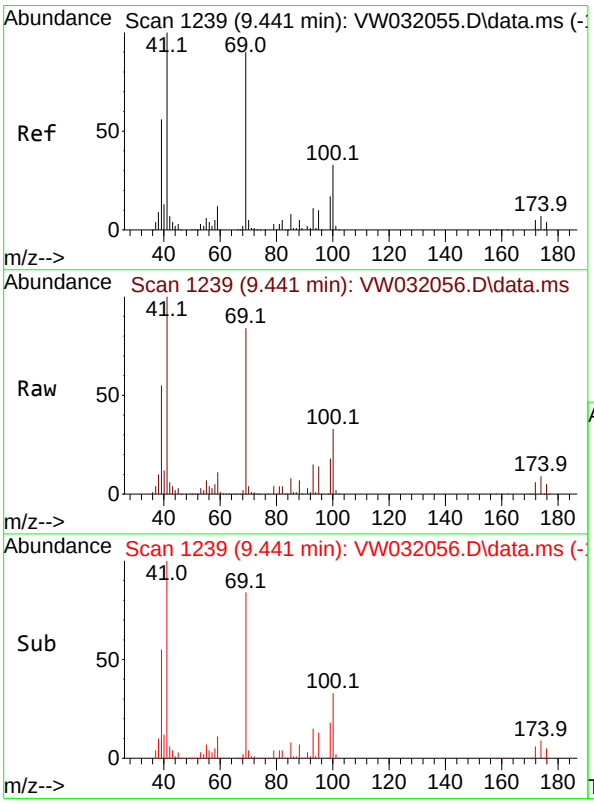
#47
Bromodichloromethane
Concen: 97.867 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 422958

Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.6	75.8
127	7.9	6.9	10.3

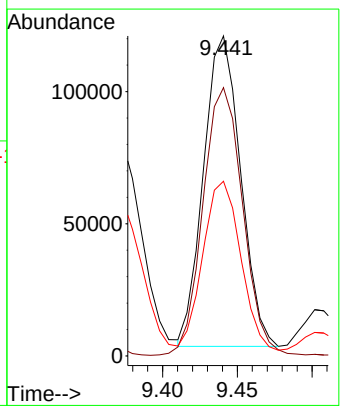


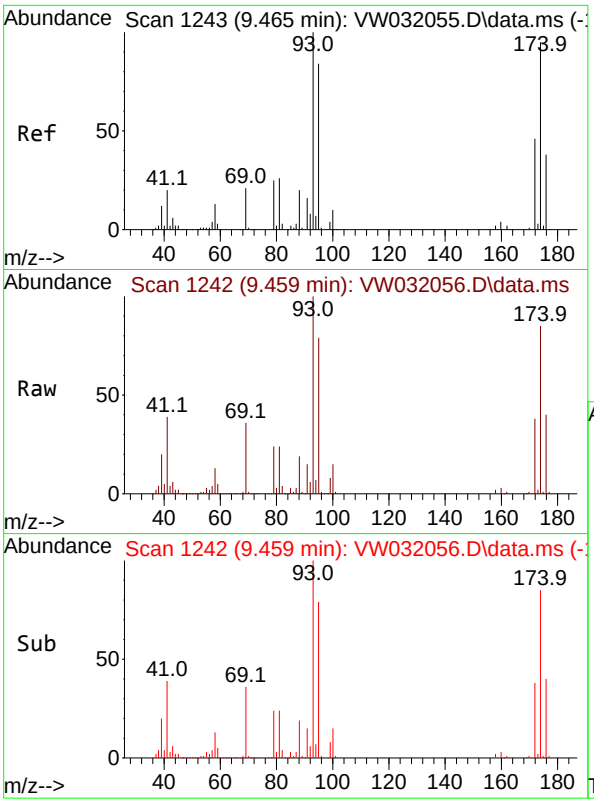


#48
Methyl methacrylate
Concen: 100.098 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 202632

Ion	Ratio	Lower	Upper
41	100		
69	93.5	73.0	109.6
39	55.0	45.0	67.4



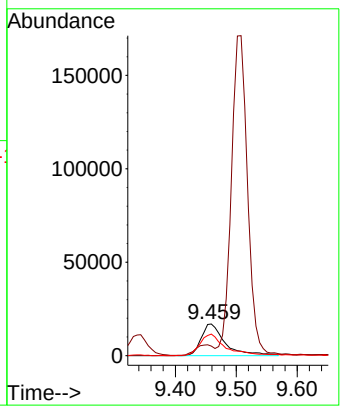


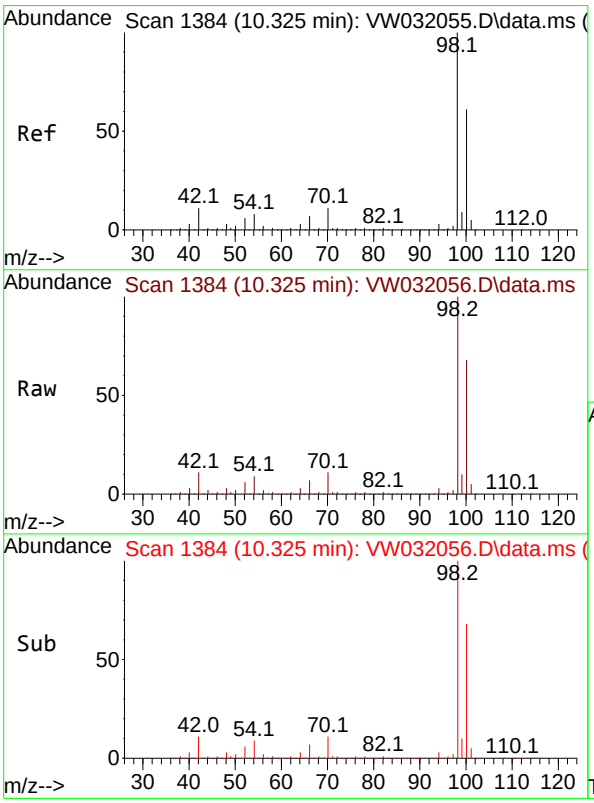
#49
1,4-Dioxane
Concen: 1912.696 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 46383

Ion	Ratio	Lower	Upper
88	100		
43	25.4	20.6	30.8
58	75.0	60.4	90.6

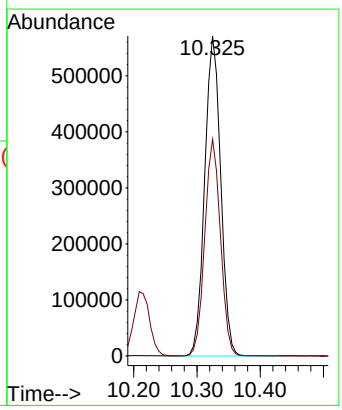


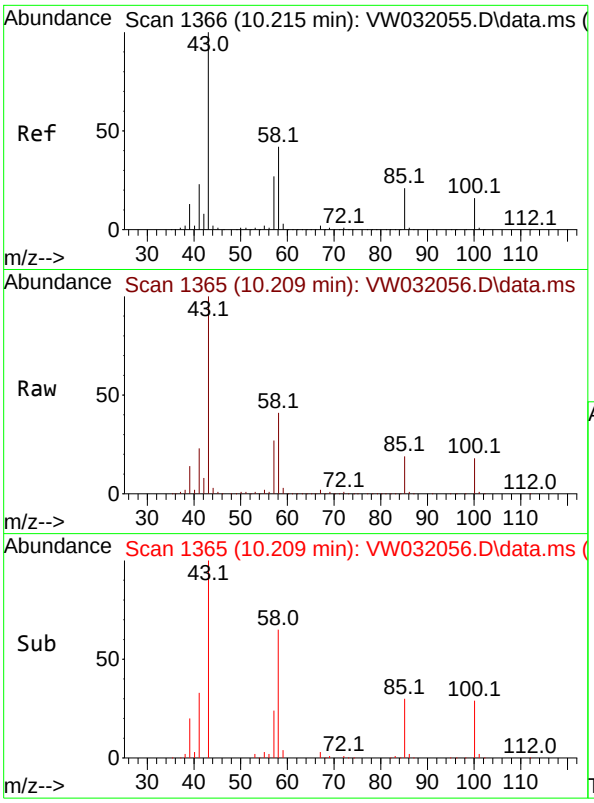


#50
Toluene-d8
Concen: 99.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 98 Resp: 1005940

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.1	76.7



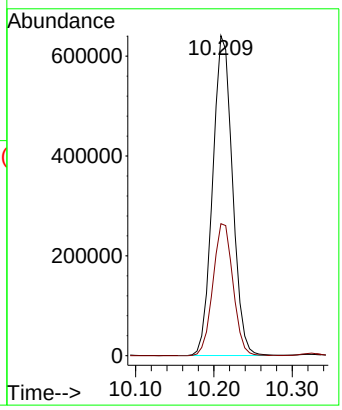


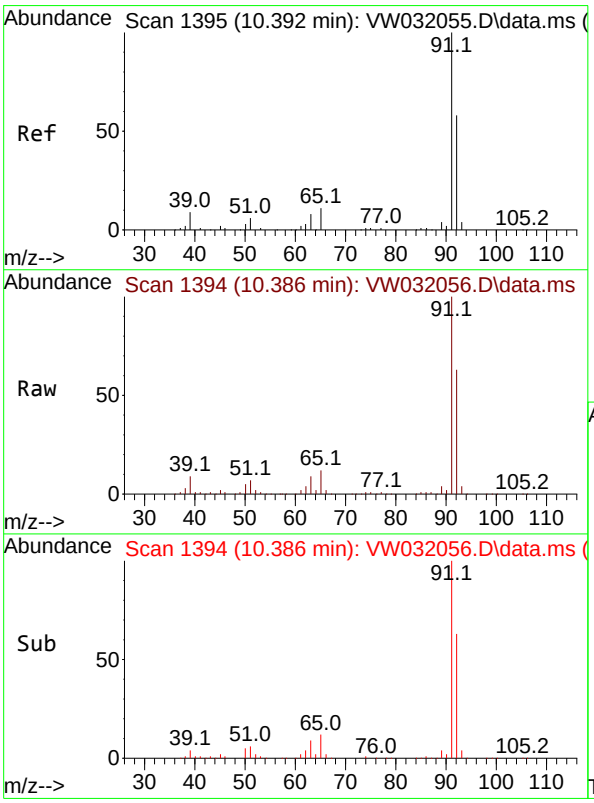
#51
4-Methyl-2-Pentanone
Concen: 476.209 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1127080

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.1	49.7

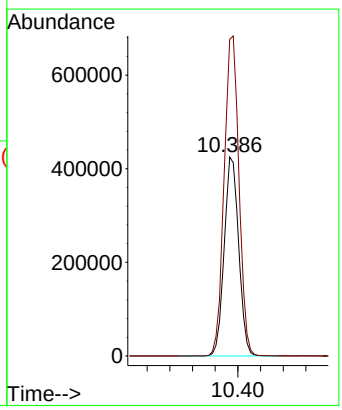


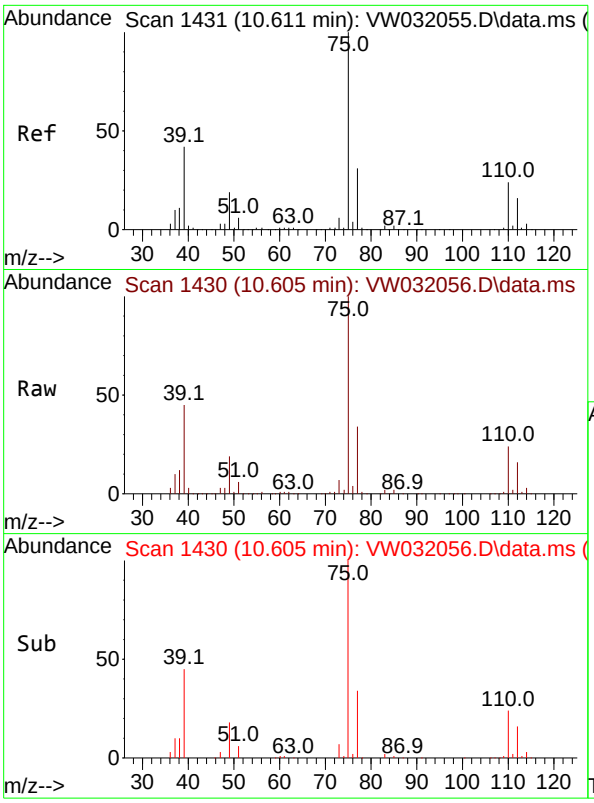


#52
Toluene
Concen: 99.464 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 92 Resp: 753592

Ion	Ratio	Lower	Upper
92	100		
91	165.0	136.3	204.5



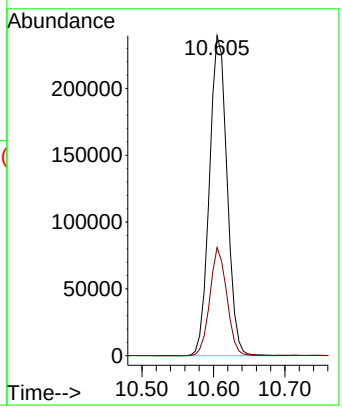


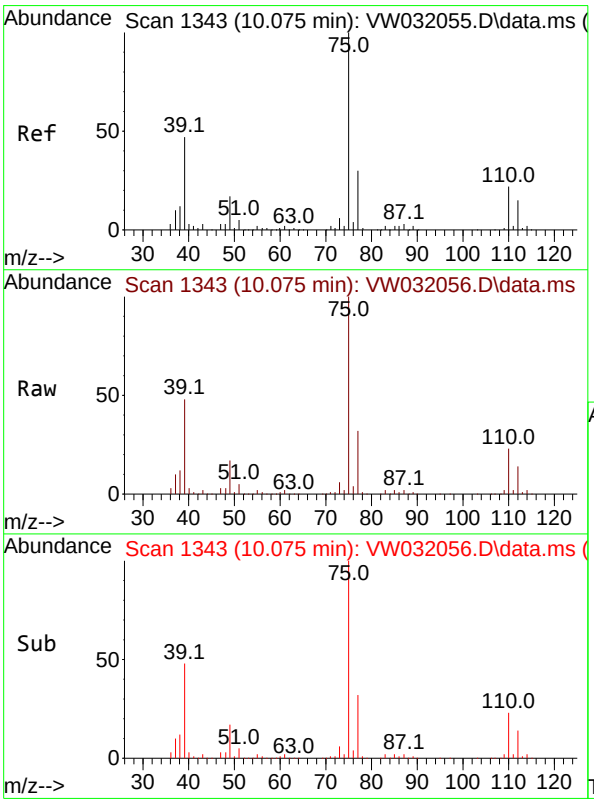
#53
t-1,3-Dichloropropene
Concen: 101.442 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 410734

Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.0	37.6

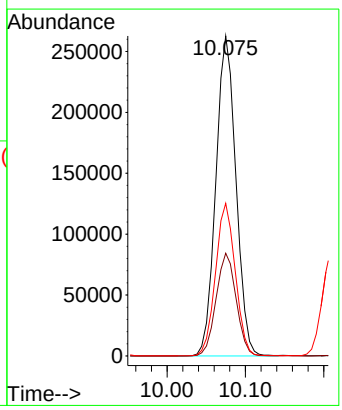


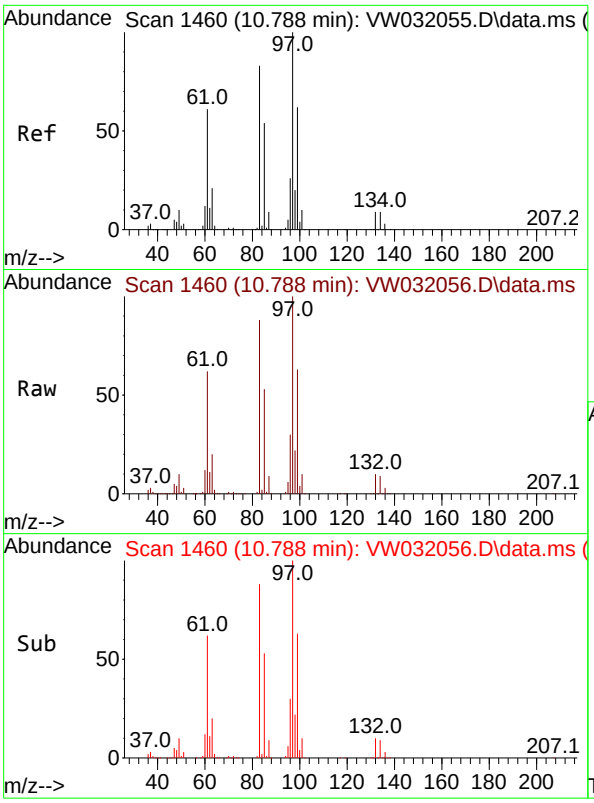


#54
cis-1,3-Dichloropropene
Concen: 102.096 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 468972

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	47.6	37.8	56.8



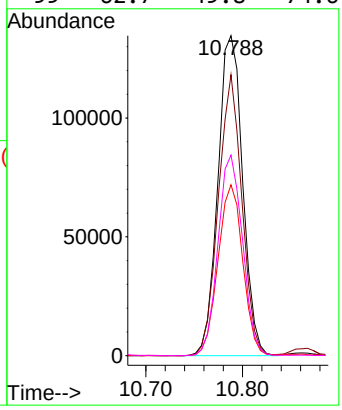


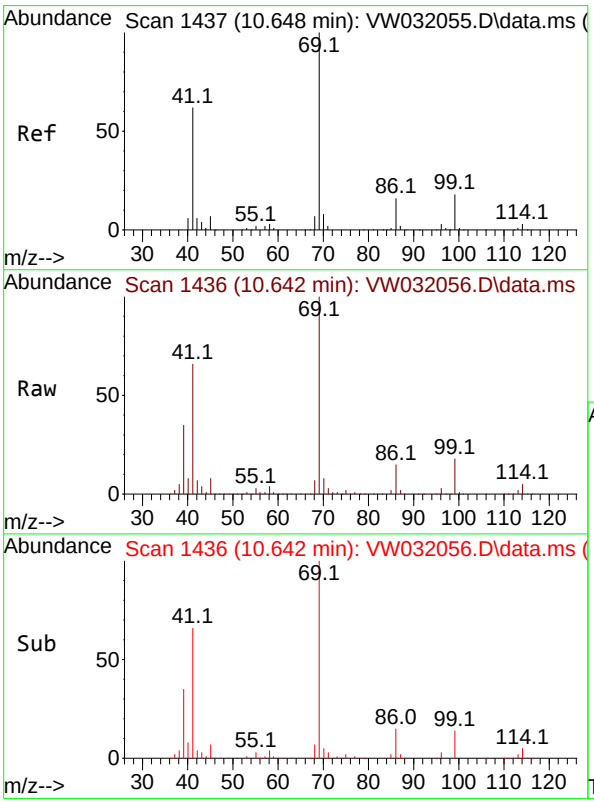
#55
1,1,2-Trichloroethane
Concen: 96.099 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 239507

Ion	Ratio	Lower	Upper
97	100		
83	87.8	66.4	99.6
85	53.4	43.1	64.7
99	62.7	49.8	74.6

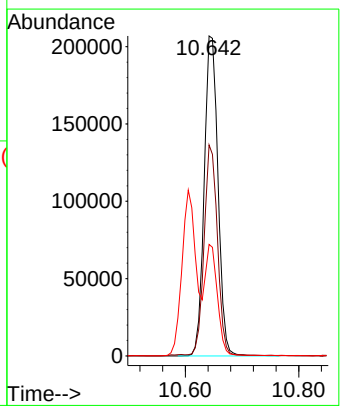


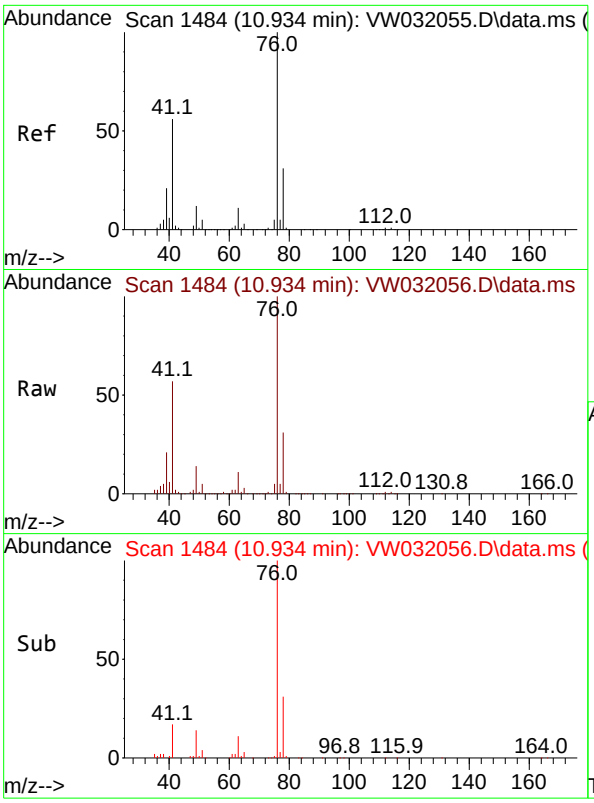


#56
Ethyl methacrylate
Concen: 104.477 ug/l
RT: 10.642 min Scan# 1436
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 69 Resp: 348446

Ion	Ratio	Lower	Upper
69	100		
41	64.5	51.2	76.8
39	30.2	25.4	38.0



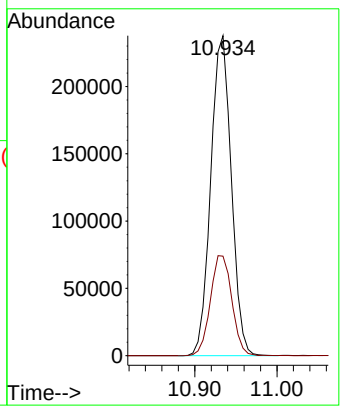


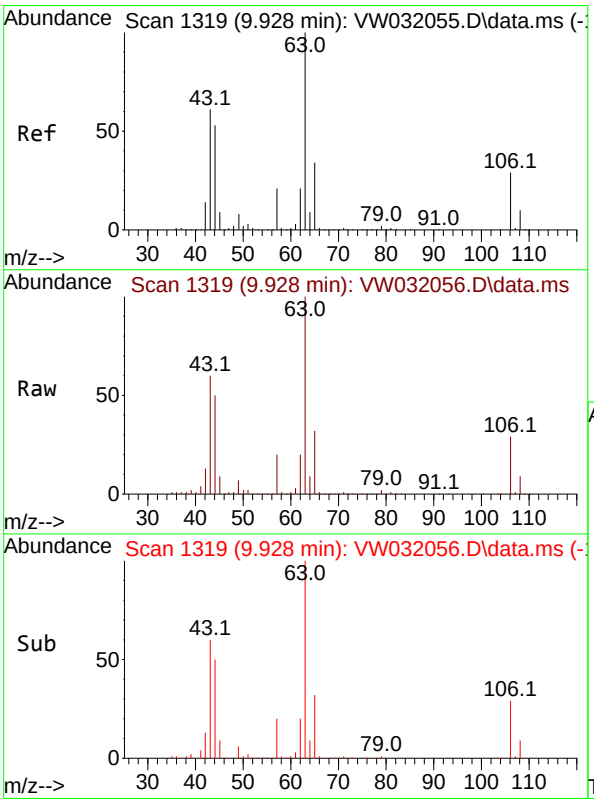
#57
1,3-Dichloropropane
Concen: 95.056 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 412949

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

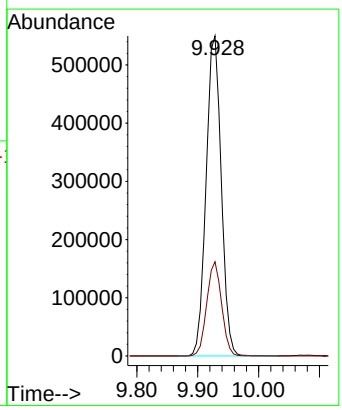


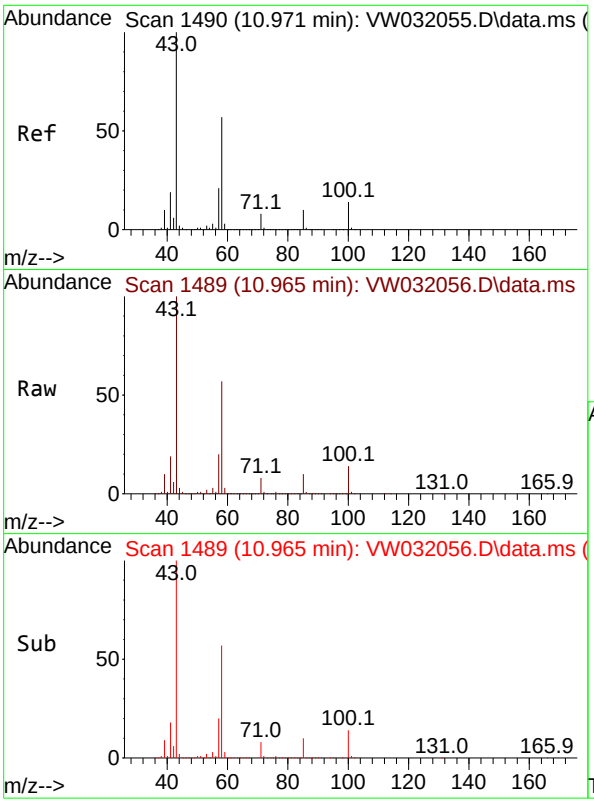


#58
2-Chloroethyl Vinyl ether
Concen: 513.956 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 948129

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.5	35.3



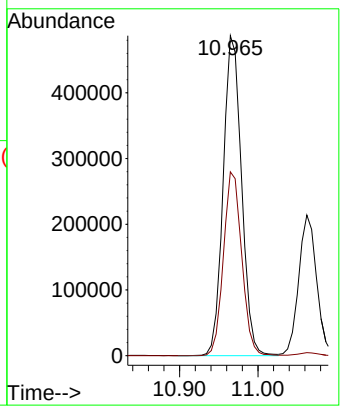


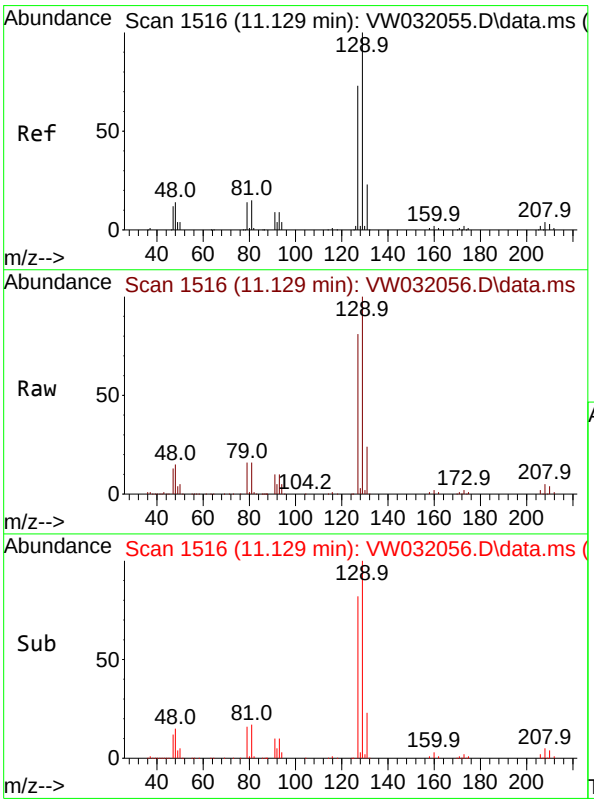
#59
2-Hexanone
Concen: 484.283 ug/l
RT: 10.965 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 793810

Ion	Ratio	Lower	Upper
43	100		
58	57.2	28.3	85.0

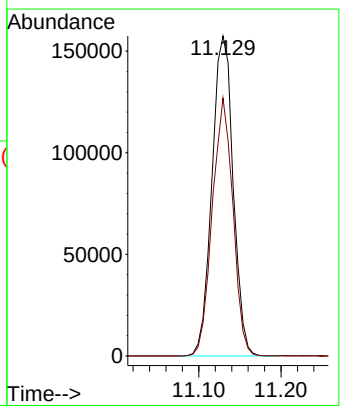


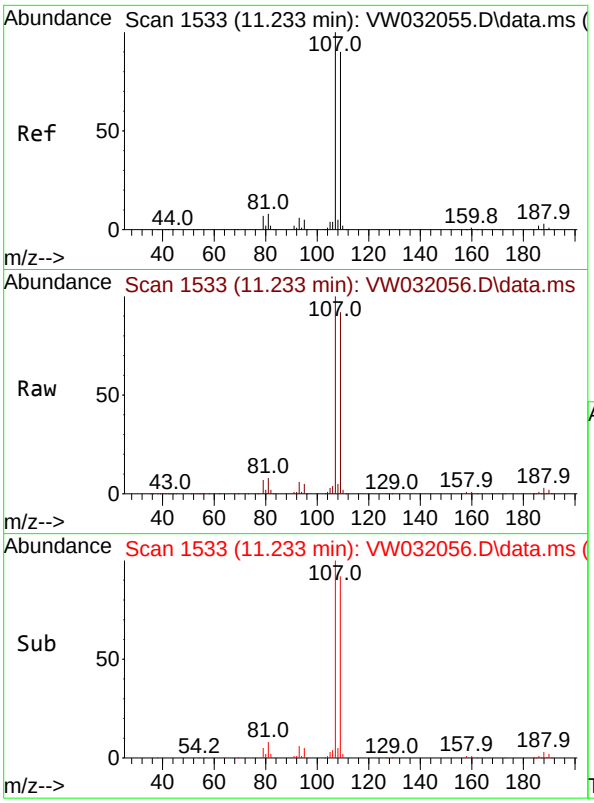


#60
Dibromochloromethane
Concen: 99.074 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:129 Resp: 282060

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.0	116.9



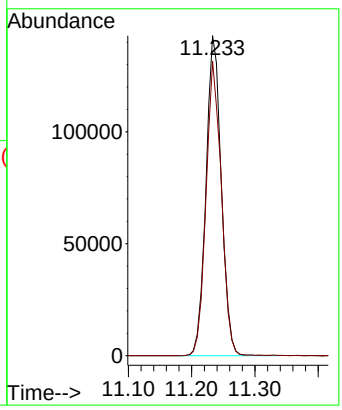


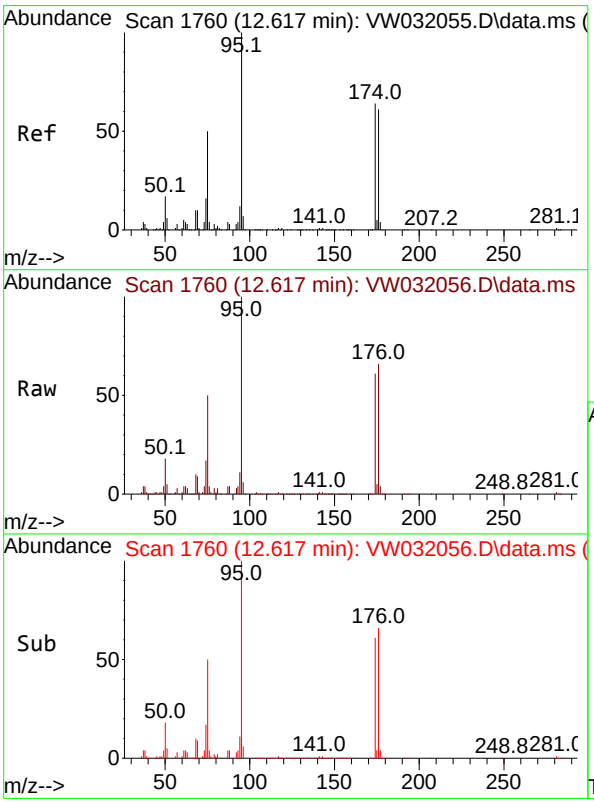
#61
1,2-Dibromoethane
Concen: 99.317 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 240542

Ion	Ratio	Lower	Upper
107	100		
109	92.1	74.2	111.4

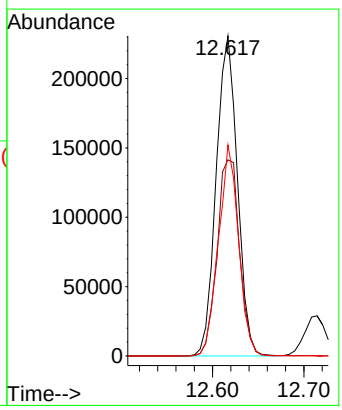


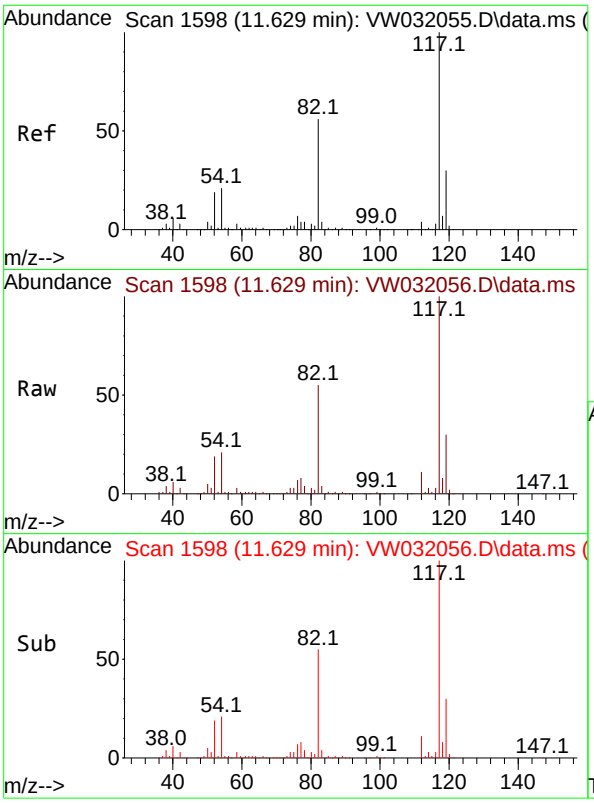


#62
4-Bromofluorobenzene
Concen: 99.536 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 95 Resp: 372416

Ion	Ratio	Lower	Upper
95	100		
174	65.2	0.0	129.0
176	62.8	0.0	124.6



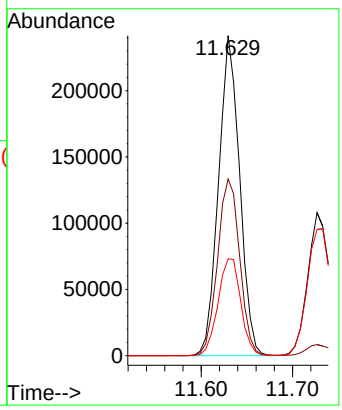


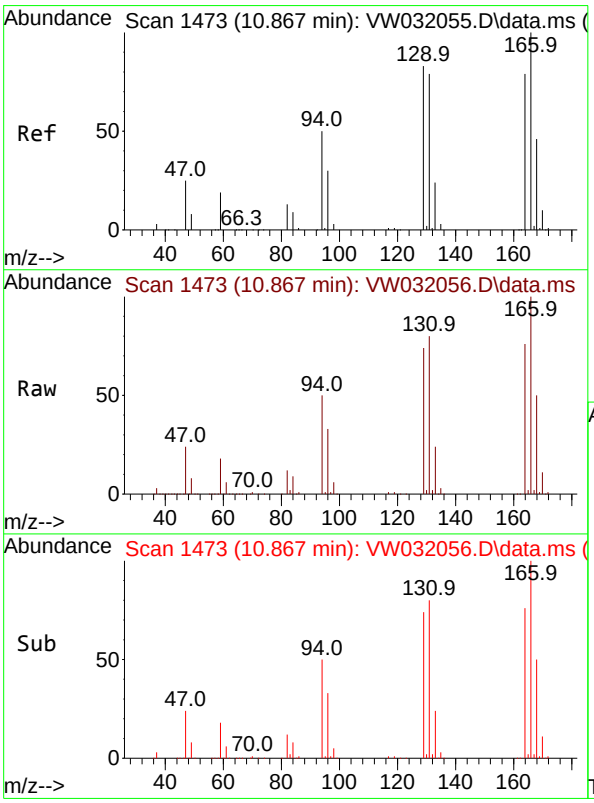
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 387705

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.0	67.4
119	30.3	24.2	36.4

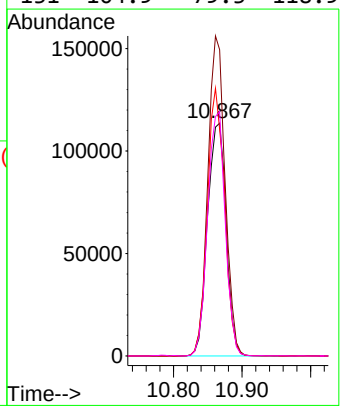


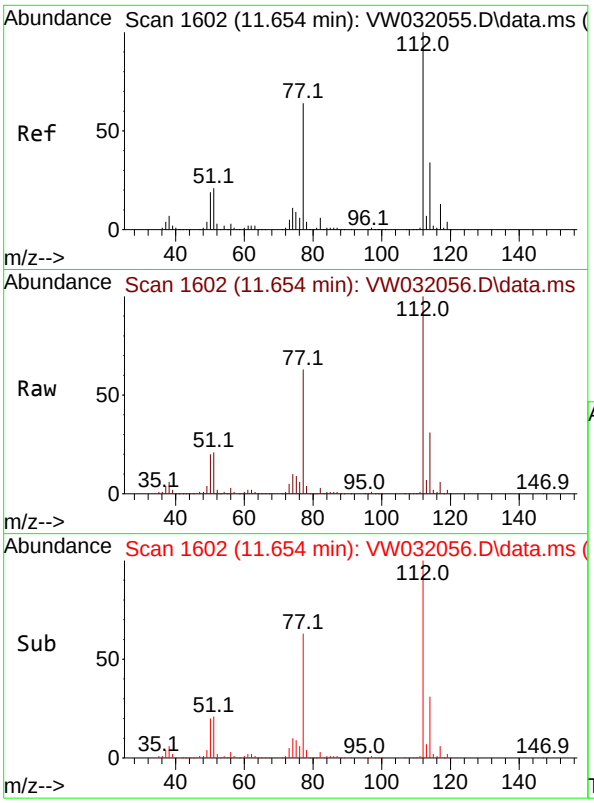


#64
Tetrachloroethene
Concen: 95.247 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:164 Resp: 213297

Ion	Ratio	Lower	Upper
164	100		
166	131.5	100.9	151.3
129	97.3	83.6	125.4
131	104.9	79.3	118.9



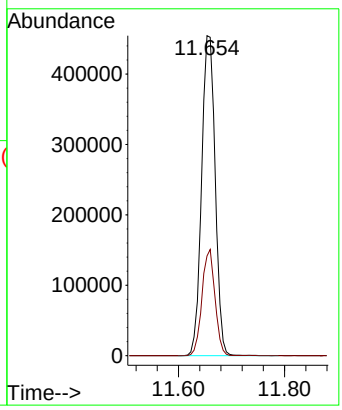


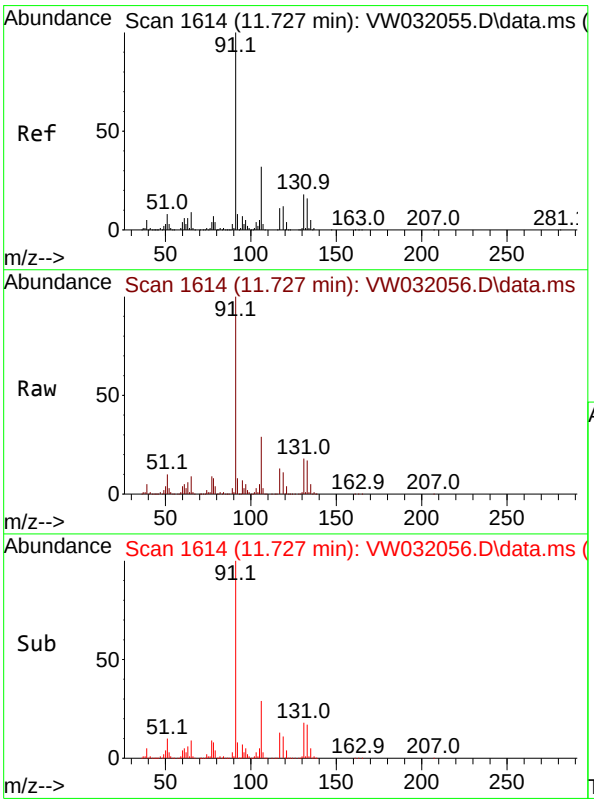
#65
Chlorobenzene
Concen: 95.819 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 808609

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.9	40.3

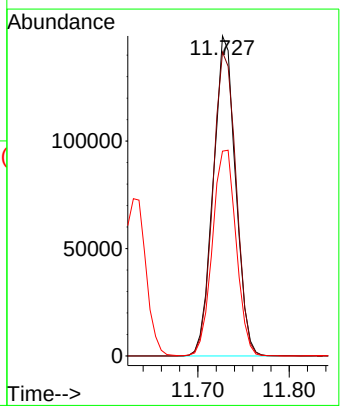


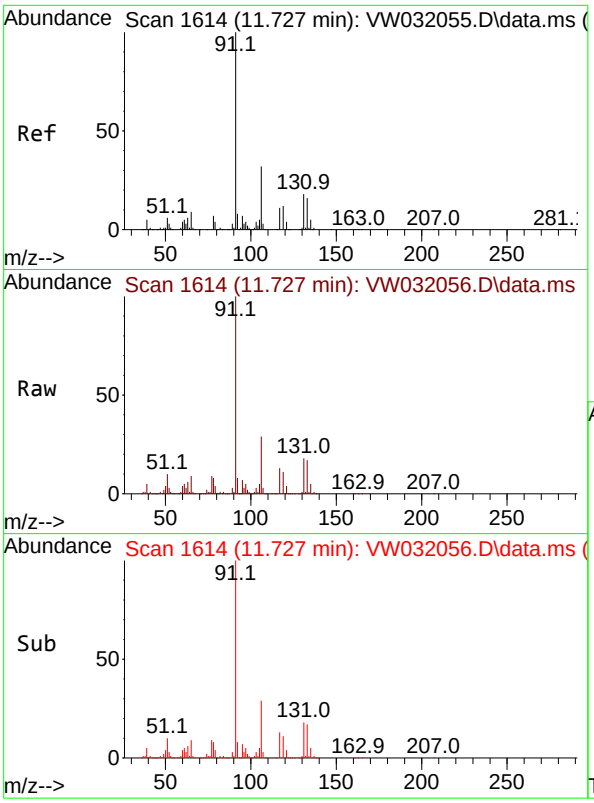


#66
1,1,1,2-Tetrachloroethane
Concen: 96.197 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:131 Resp: 253284

Ion	Ratio	Lower	Upper
131	100		
133	98.6	47.3	142.0
119	68.3	34.5	103.5



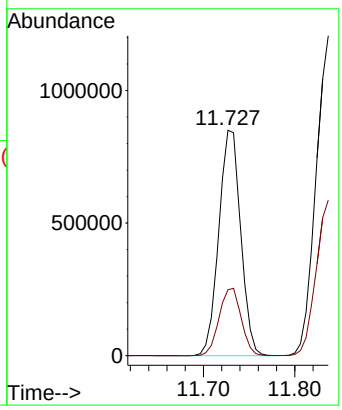


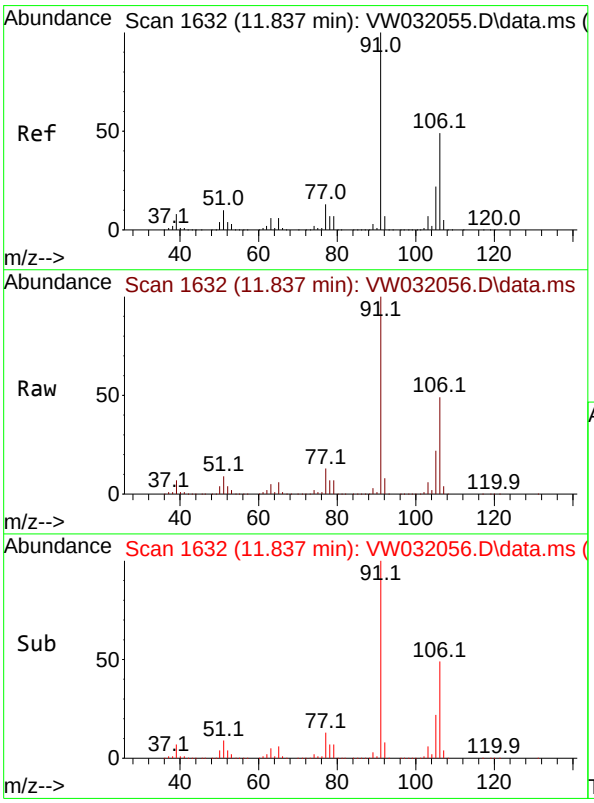
#67
Ethyl Benzene
Concen: 99.243 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1418619

Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.4	38.0

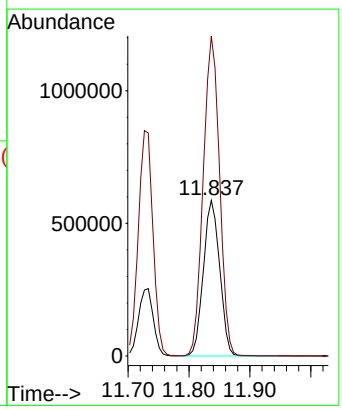


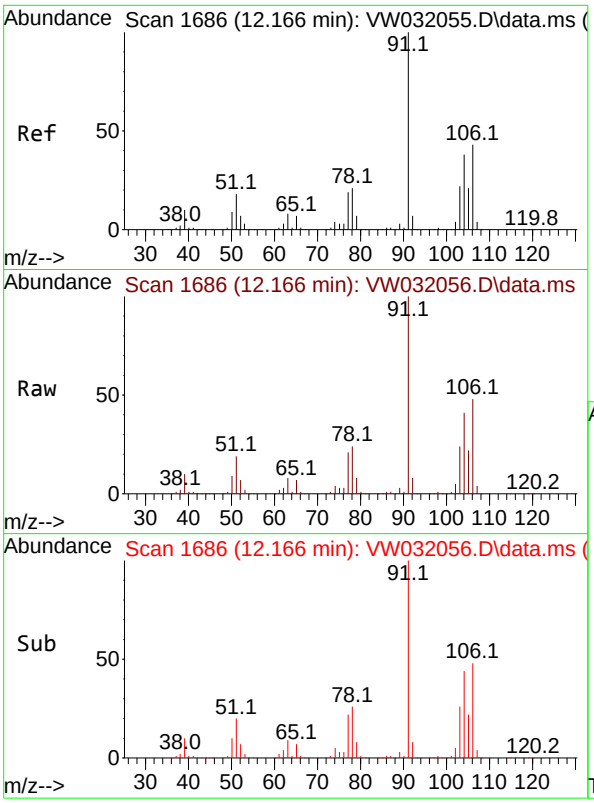


#68
m/p-Xylenes
Concen: 197.459 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 1089143

Ion	Ratio	Lower	Upper
106	100		
91	206.7	162.2	243.2



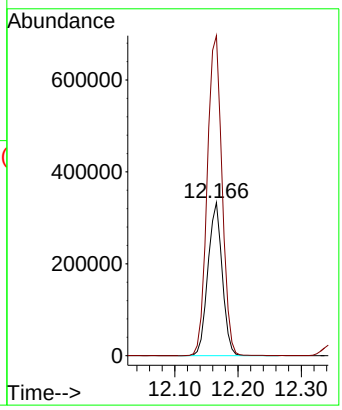


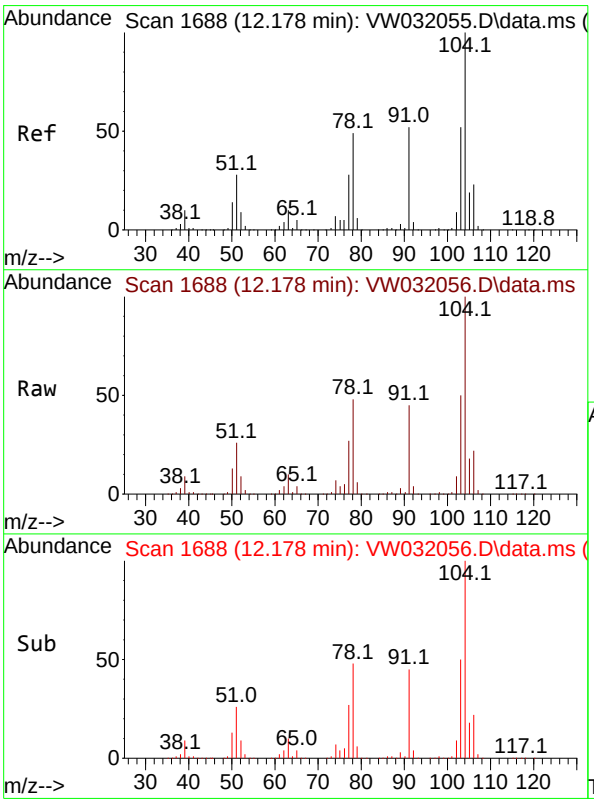
#69
o-Xylene
Concen: 102.652 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 523329

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3

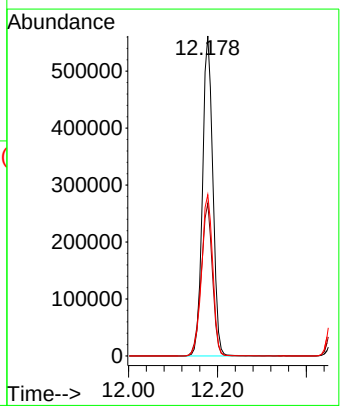


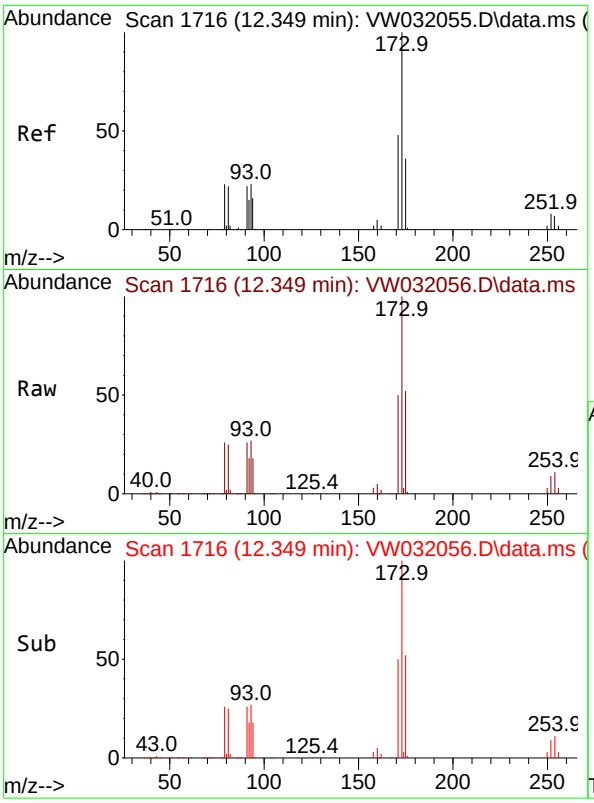


#70
Styrene
Concen: 101.158 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:104 Resp: 916019

Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.2	61.8
103	54.3	43.8	65.8



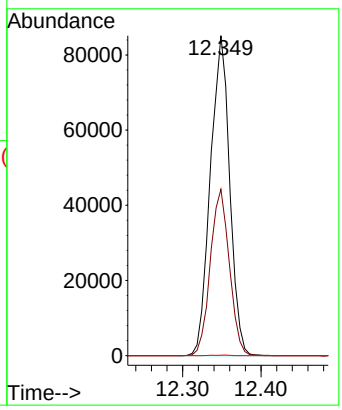


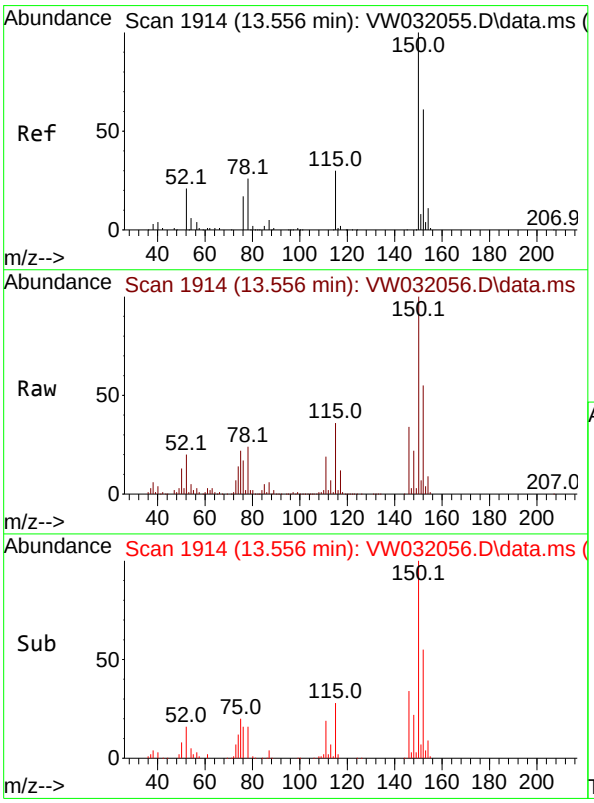
#71
Bromoform
Concen: 96.794 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 145781

Ion	Ratio	Lower	Upper
173	100		
175	51.3	22.9	68.7
254	0.2	0.0	0.0#

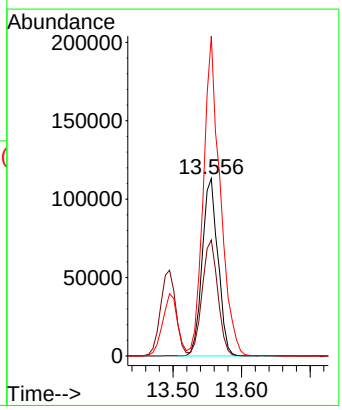


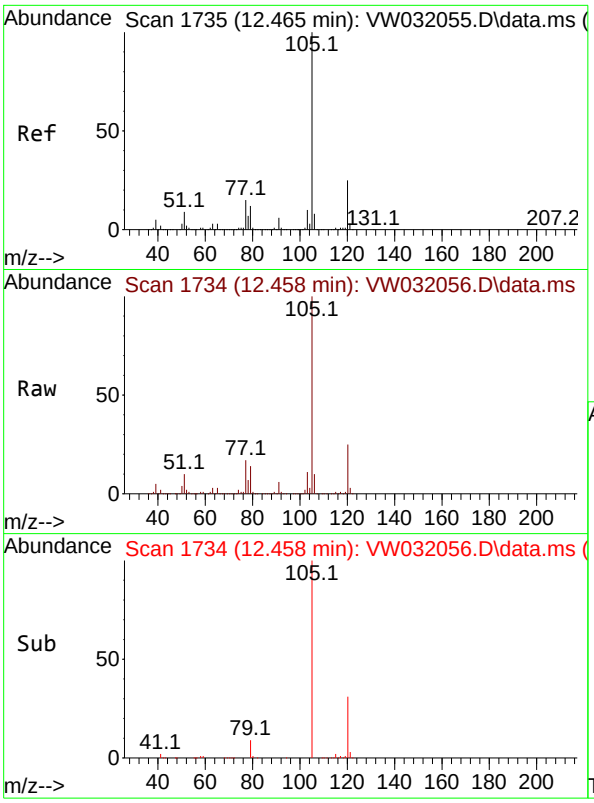


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:152 Resp: 180763

Ion	Ratio	Lower	Upper
152	100		
115	65.1	32.6	97.8
150	191.5	0.0	359.4



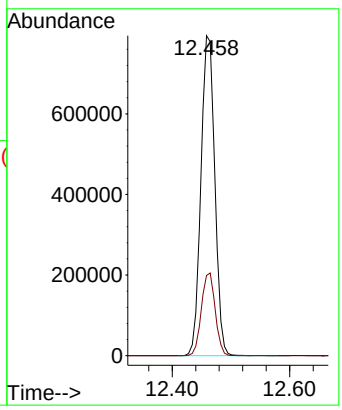


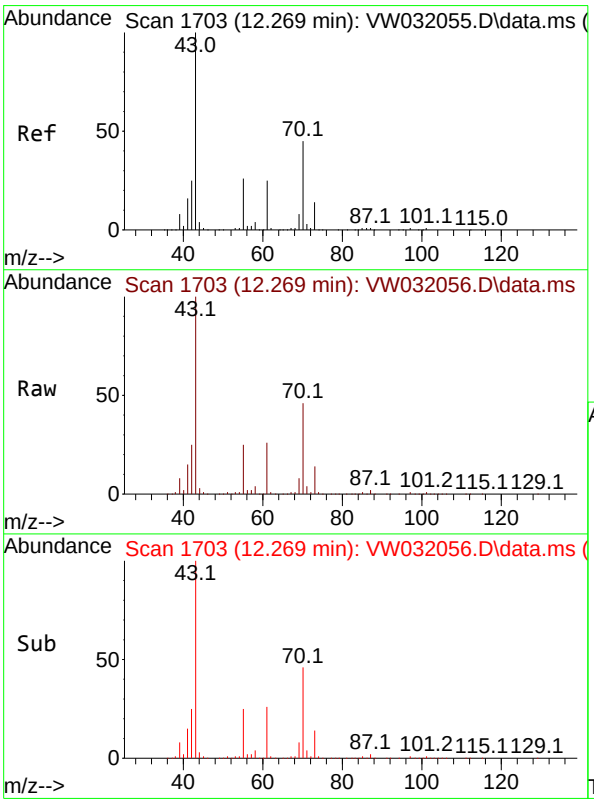
#73
Isopropylbenzene
Concen: 102.870 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1299533

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

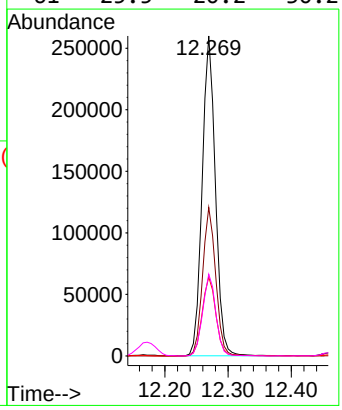


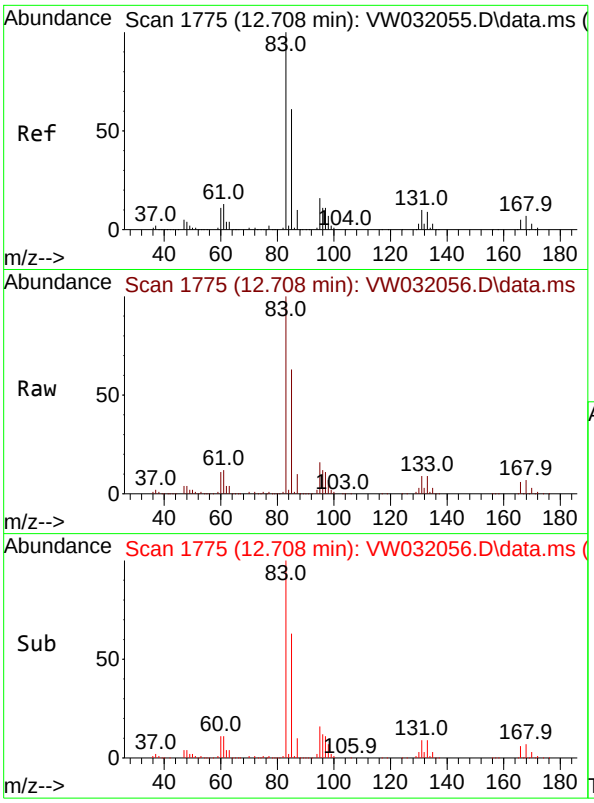


#74
N-amyl acetate
Concen: 104.494 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 378722

Ion	Ratio	Lower	Upper
43	100		
70	46.3	37.0	55.4
55	25.5	21.1	31.7
61	25.5	20.2	30.2



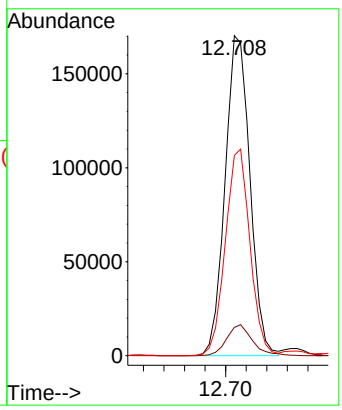


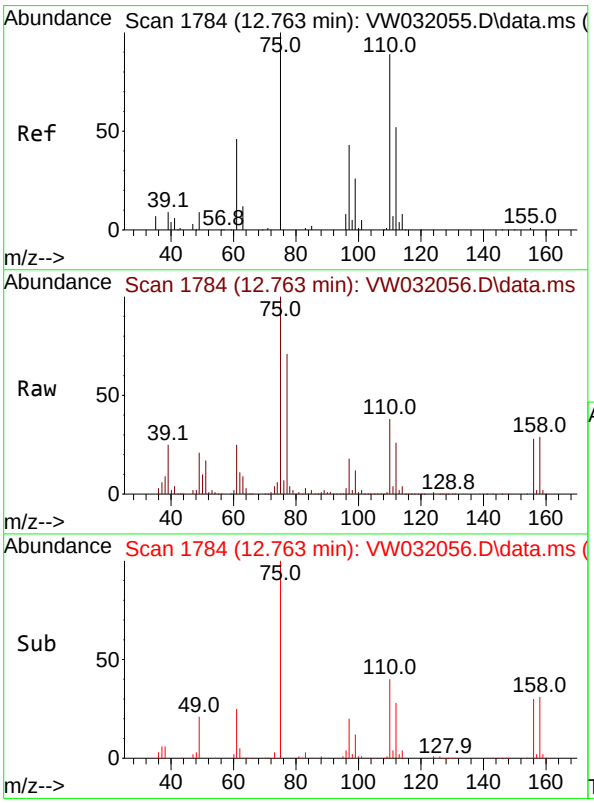
#75
1,1,2,2-Tetrachloroethane
Concen: 95.677 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 286977

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	63.9	32.2	96.6

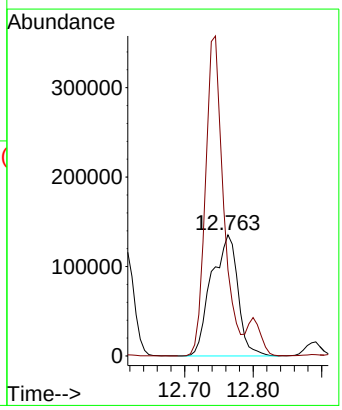


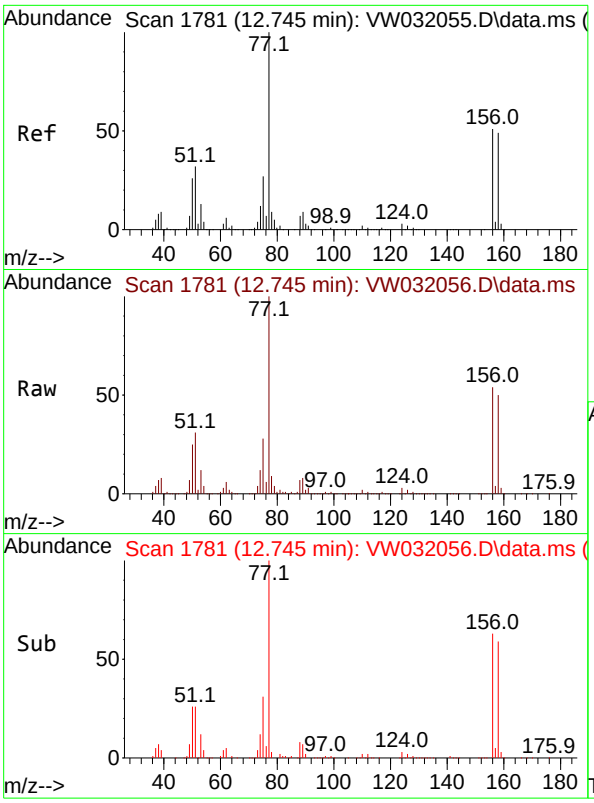


#76
1,2,3-Trichloropropane
Concen: 130.728 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 363264

Ion	Ratio	Lower	Upper
75	100		
77	179.3	123.5	370.5



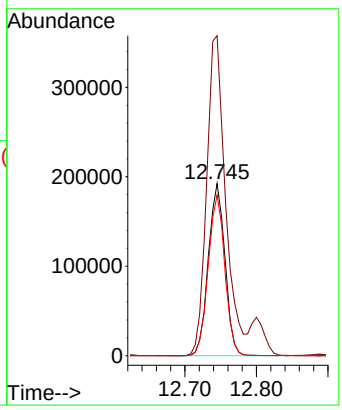


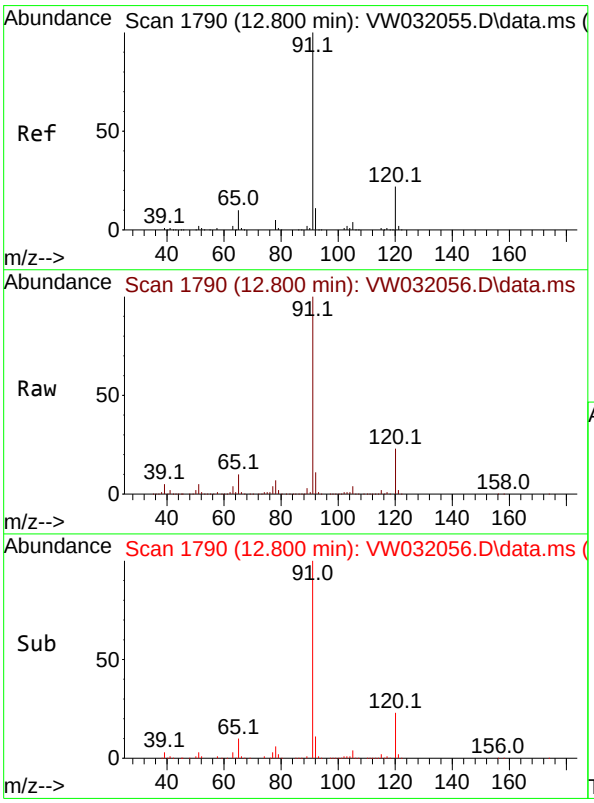
#77
Bromobenzene
Concen: 103.091 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 311049

Ion	Ratio	Lower	Upper
156	100		
77	209.5	108.7	326.3
158	93.4	48.3	144.9

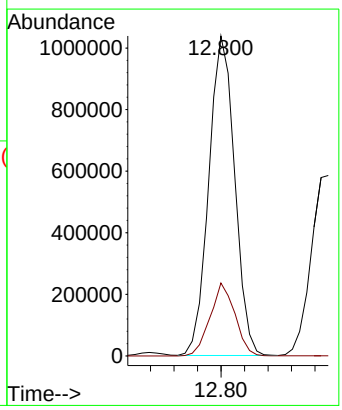


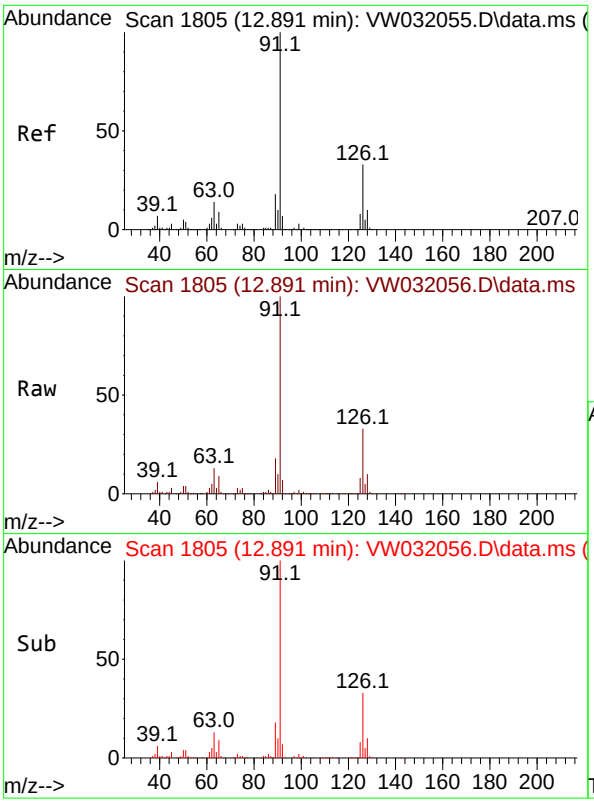


#78
n-propylbenzene
Concen: 102.177 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1589147

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3



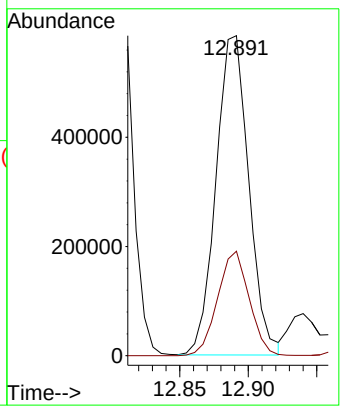


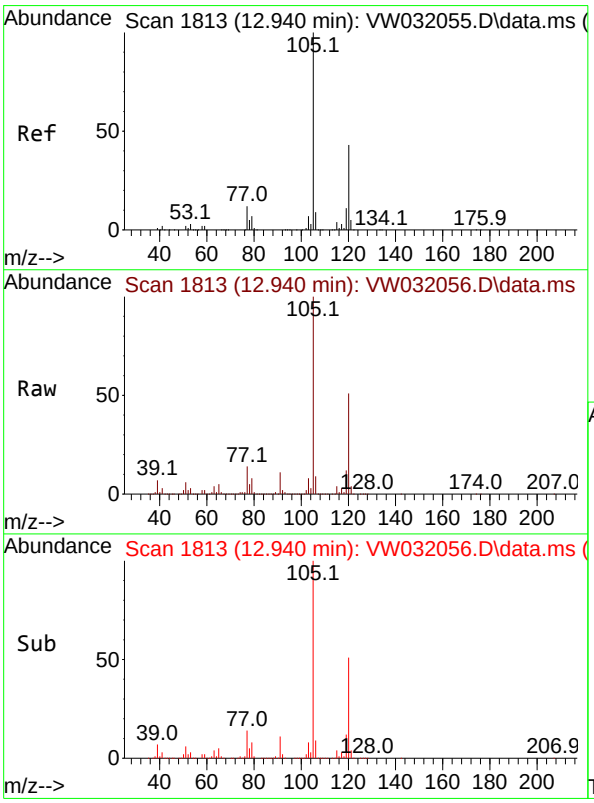
#79
2-Chlorotoluene
Concen: 101.505 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 974324

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.9	47.7

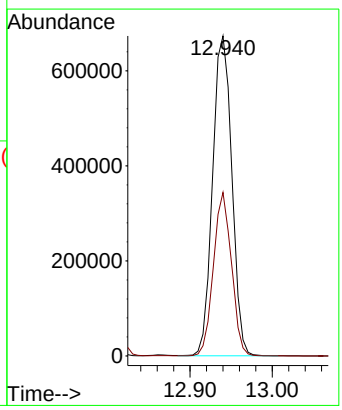


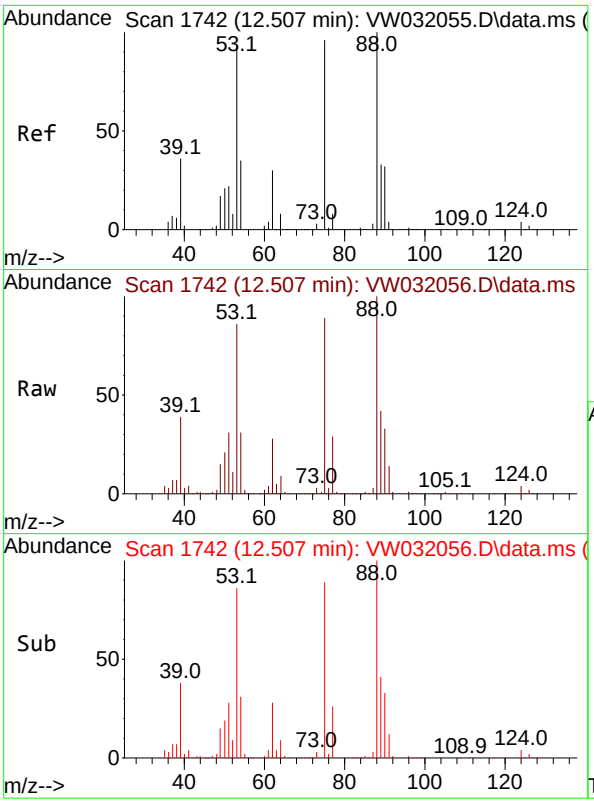


#80
1,3,5-Trimethylbenzene
Concen: 101.912 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1092987

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.4	70.0



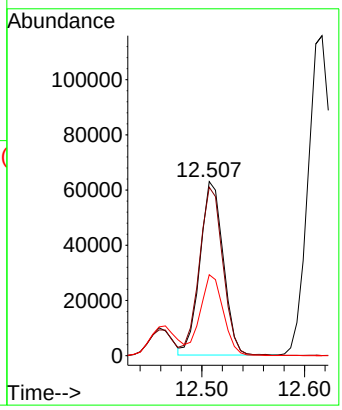


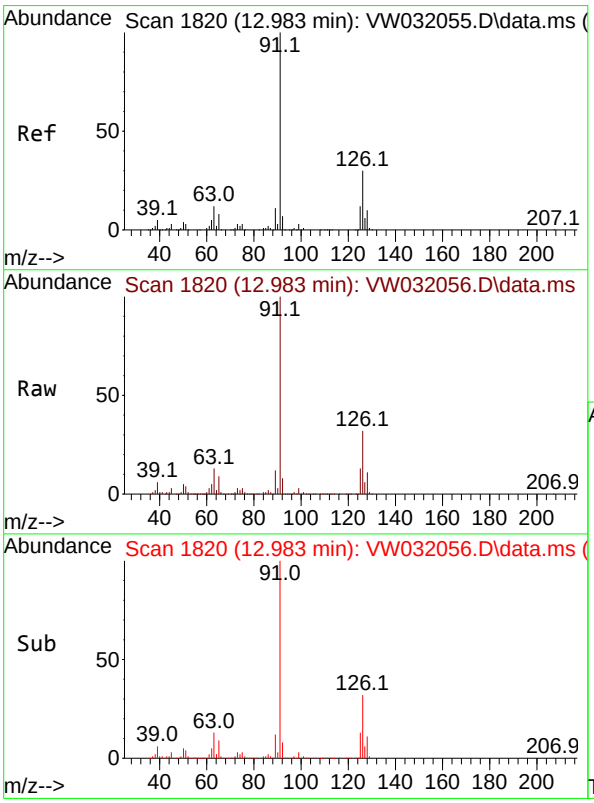
#81
trans-1,4-Dichloro-2-butene
Concen: 104.370 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 98906

Ion	Ratio	Lower	Upper
75	100		
53	99.2	81.0	121.6
89	46.2	37.3	55.9

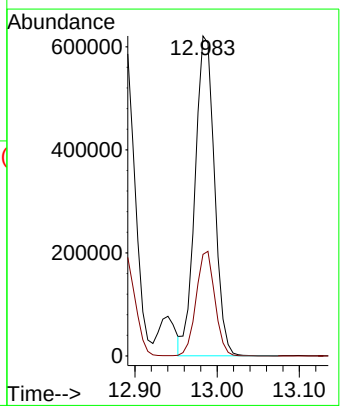


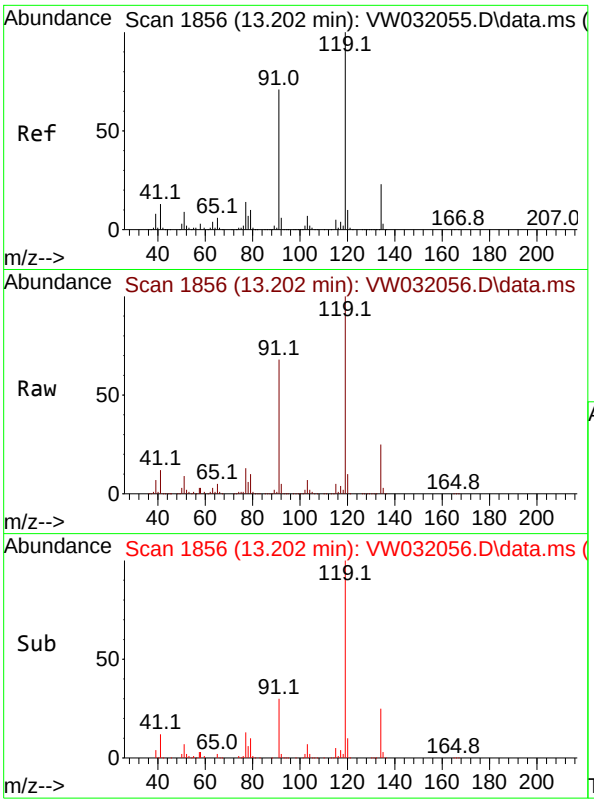


#82
4-Chlorotoluene
Concen: 99.412 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1013836

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.5	46.5



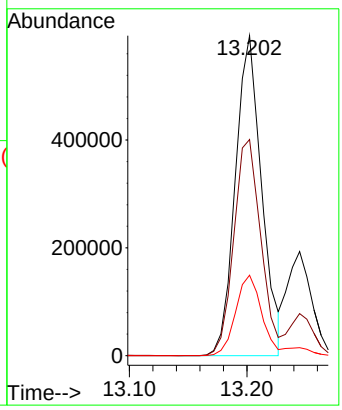


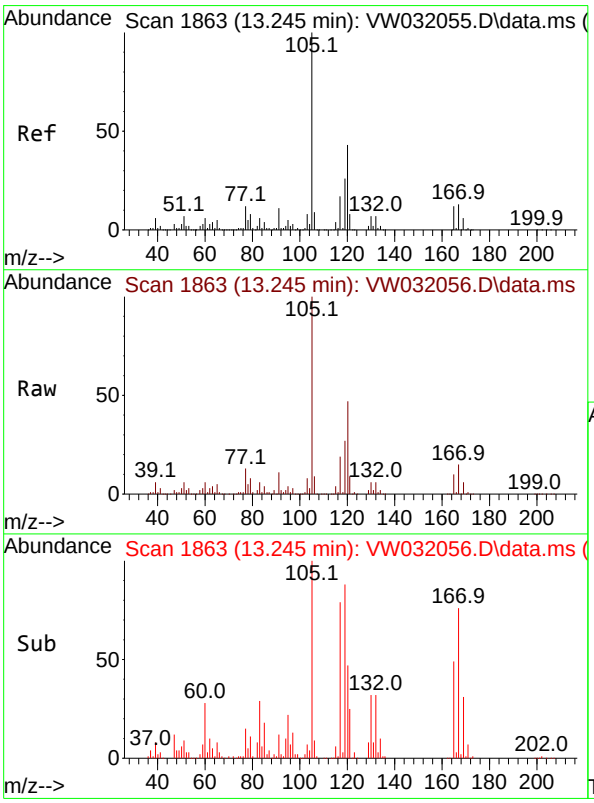
#83
tert-Butylbenzene
Concen: 103.591 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 922044

Ion	Ratio	Lower	Upper
119	100		
91	69.4	35.3	105.9
134	25.3	12.1	36.3

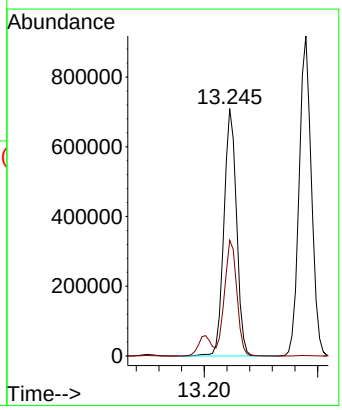


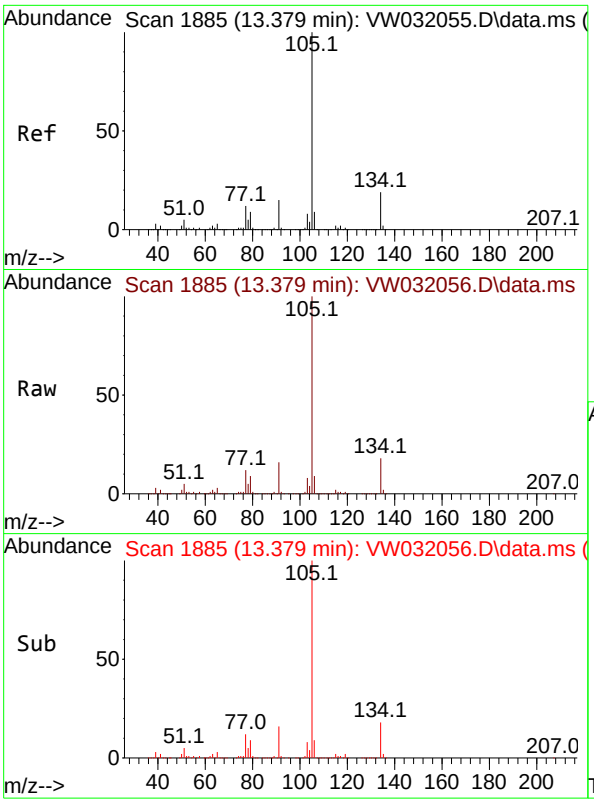


#84
1,2,4-Trimethylbenzene
Concen: 99.778 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1089327

Ion	Ratio	Lower	Upper
105	100		
120	45.7	21.6	64.8



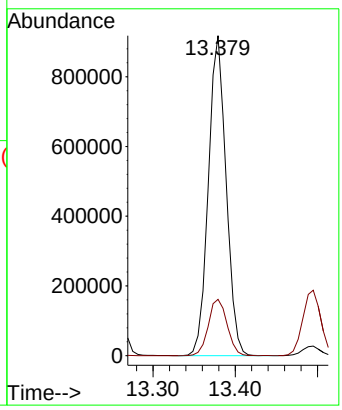


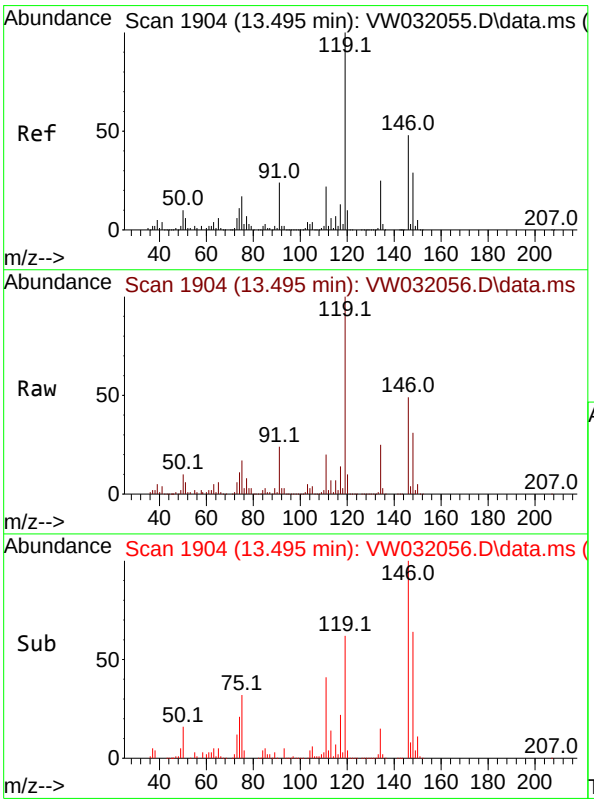
#85
sec-Butylbenzene
Concen: 101.978 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1372324

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

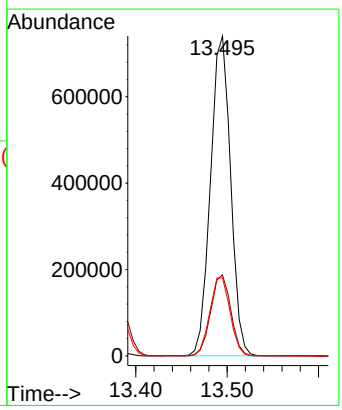


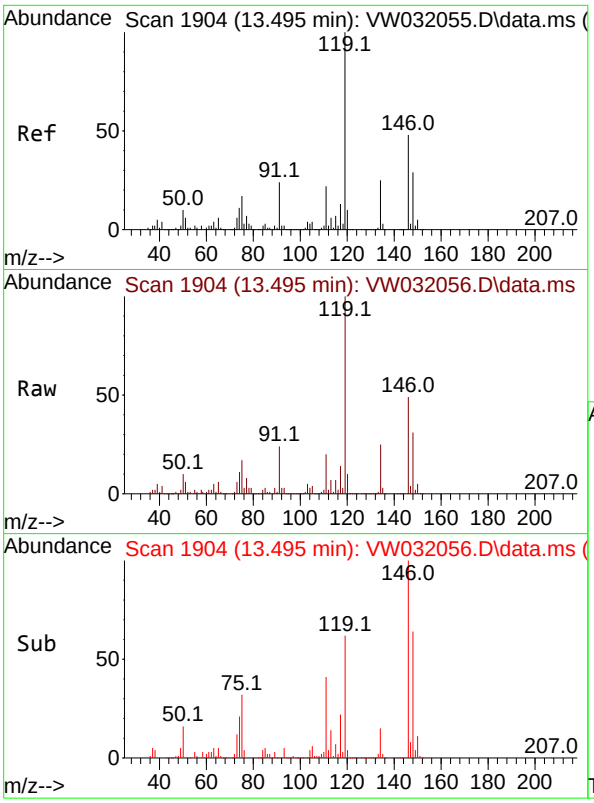


#86
p-Isopropyltoluene
Concen: 100.630 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 1128935

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.4	37.0
91	24.8	12.1	36.3



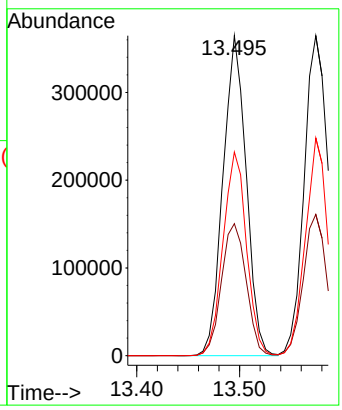


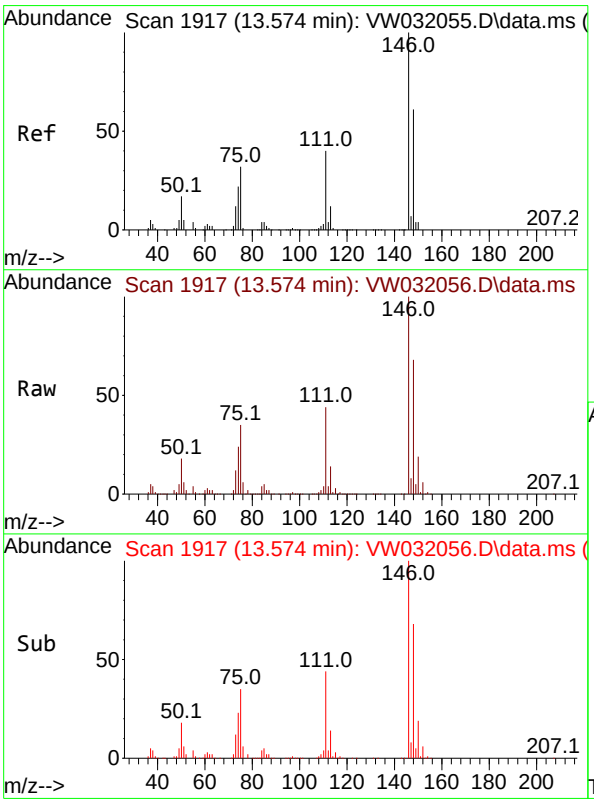
#87
1,3-Dichlorobenzene
Concen: 95.298 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 572145

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.2	63.6
148	64.4	30.3	90.8

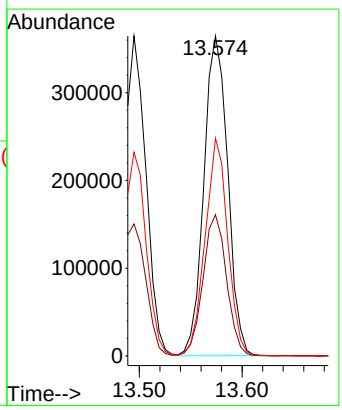


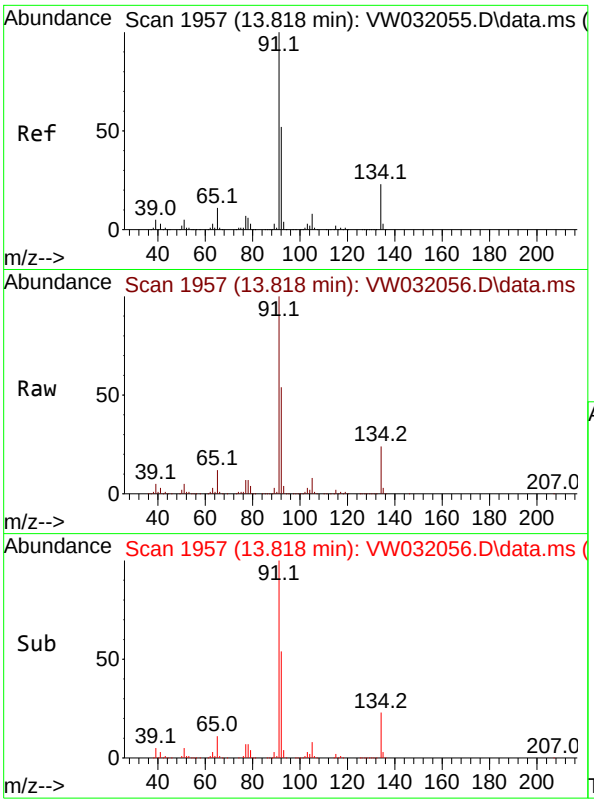


#88
1,4-Dichlorobenzene
Concen: 96.819 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 587417

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	64.6
148	64.3	32.0	96.2



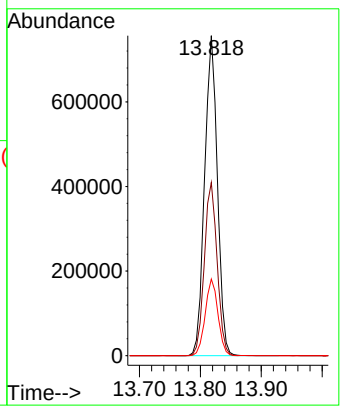


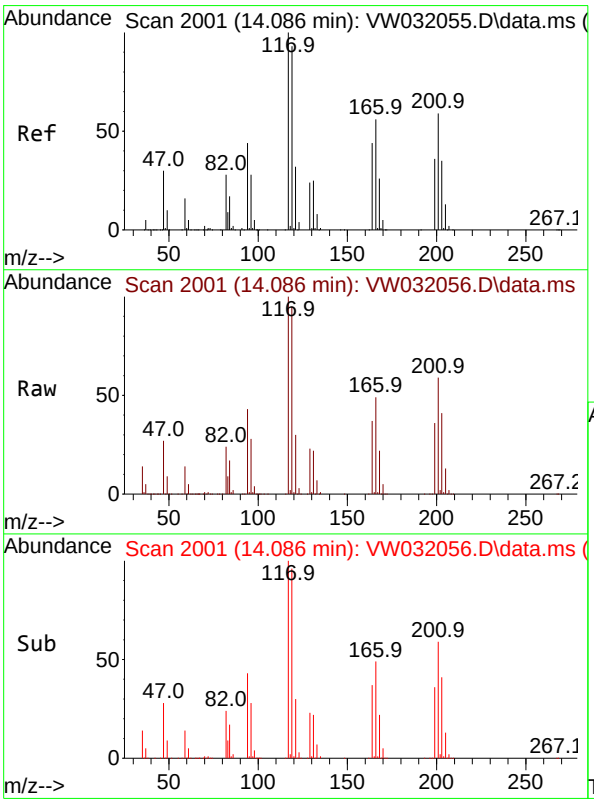
#89
n-Butylbenzene
Concen: 101.235 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1103362

Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.7	80.1
134	24.0	12.0	36.1

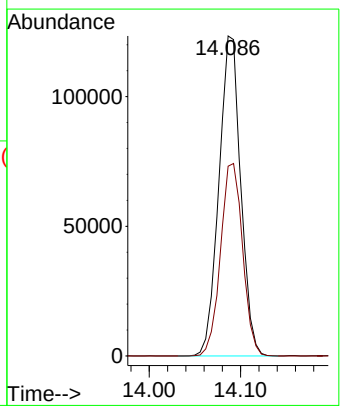


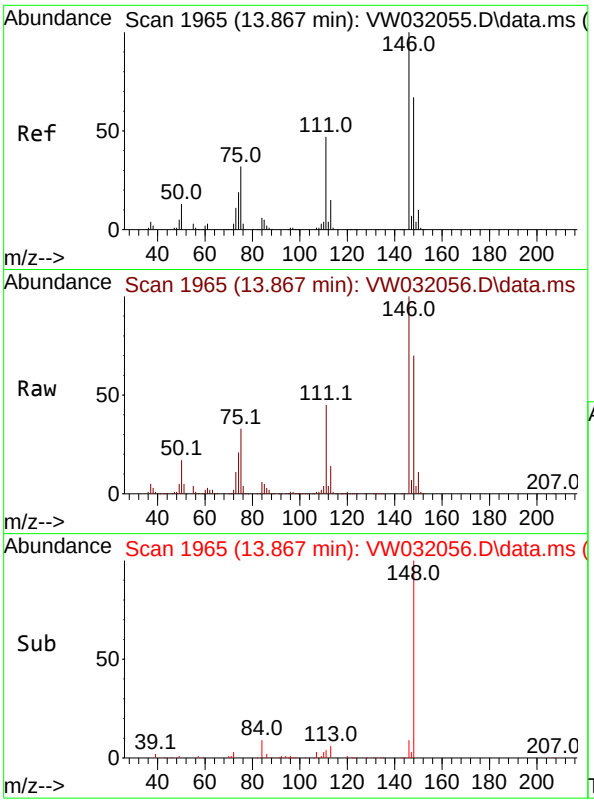


#90
Hexachloroethane
Concen: 99.832 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 204823

Ion	Ratio	Lower	Upper
117	100		
201	60.9	30.9	92.5



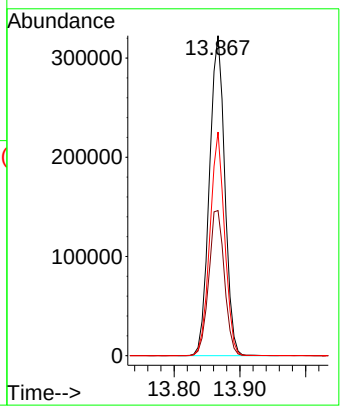


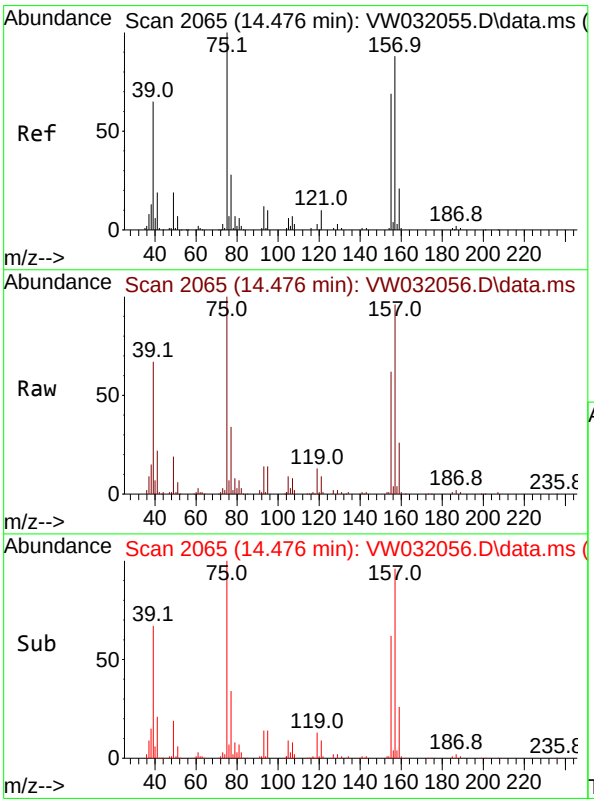
#91
1,2-Dichlorobenzene
Concen: 96.387 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 524204

Ion	Ratio	Lower	Upper
146	100		
111	46.3	23.1	69.3
148	67.0	32.9	98.6

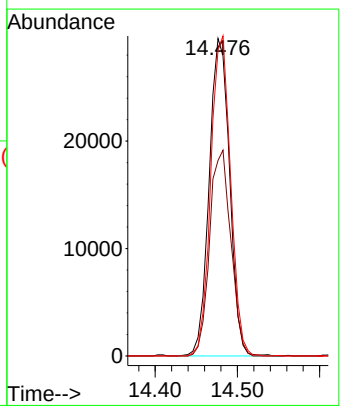


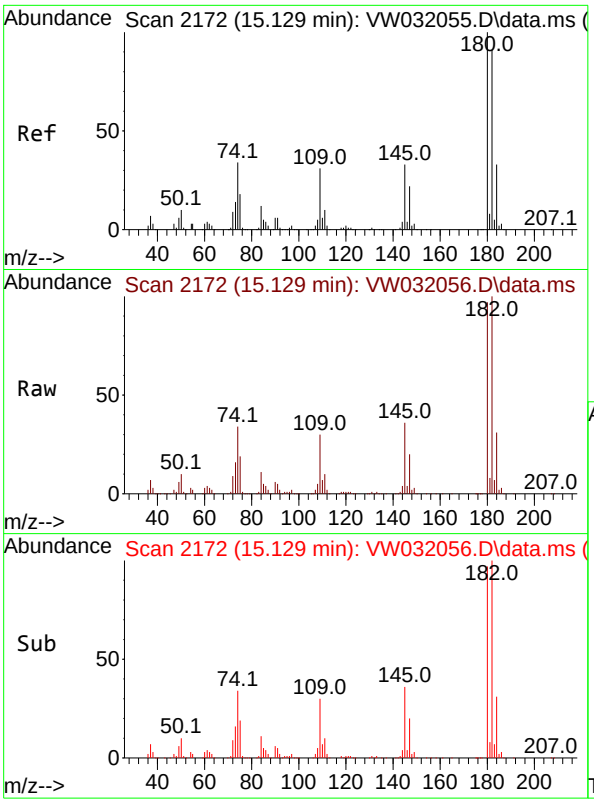


#92
1,2-Dibromo-3-Chloropropane
Concen: 95.632 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 50993

Ion	Ratio	Lower	Upper
75	100		
155	67.2	35.2	105.6
157	97.8	47.5	142.6



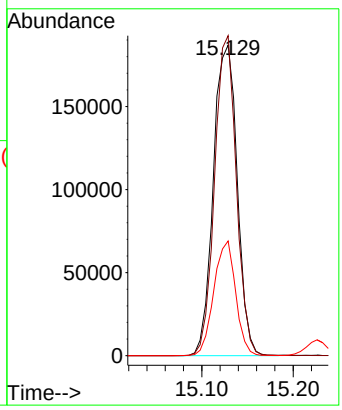


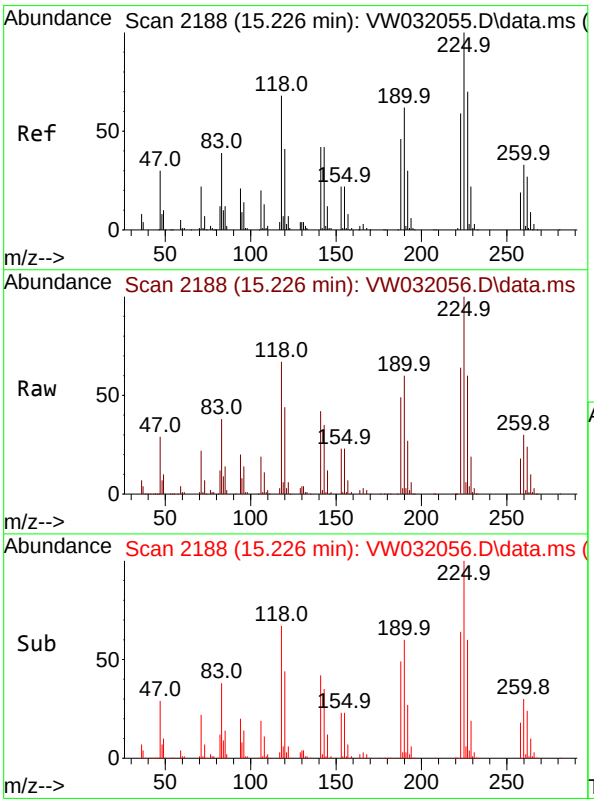
#93
1,2,4-Trichlorobenzene
Concen: 104.094 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 338661

Ion	Ratio	Lower	Upper
180	100		
182	94.1	49.0	147.0
145	33.9	17.3	51.9

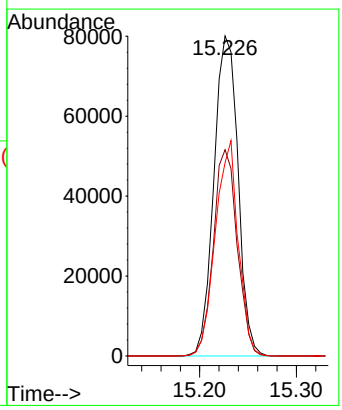


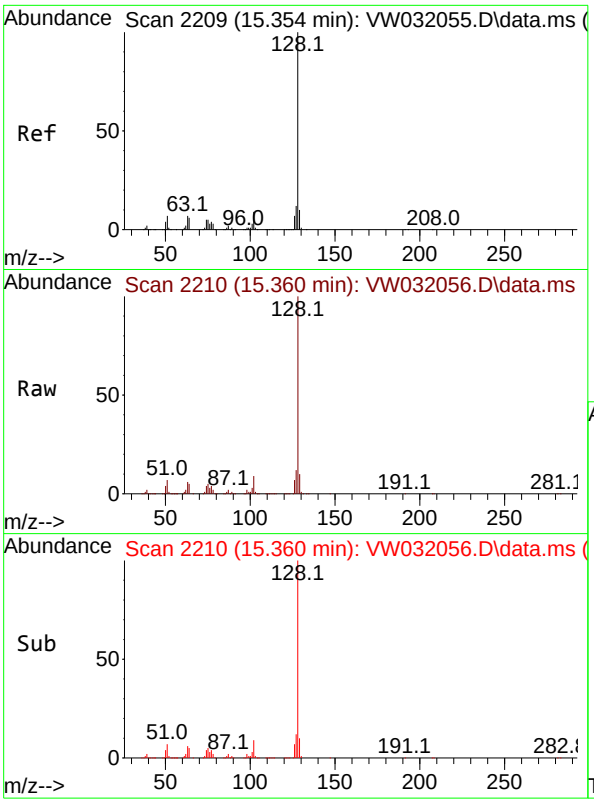


#94
Hexachlorobutadiene
Concen: 95.189 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:225 Resp: 138434

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.8	95.3
227	64.1	33.5	100.5



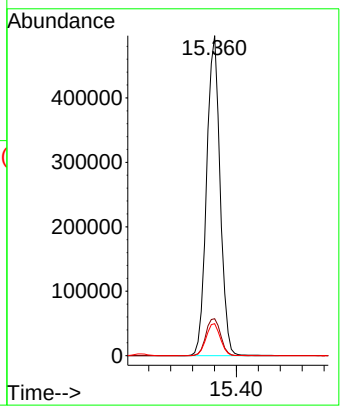


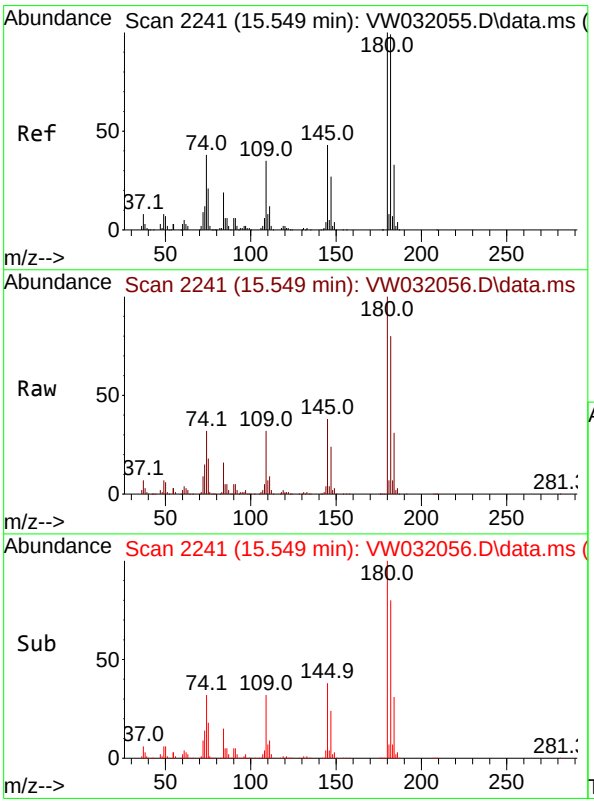
#95
Naphthalene
Concen: 105.533 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 841296

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.6	8.2	12.4

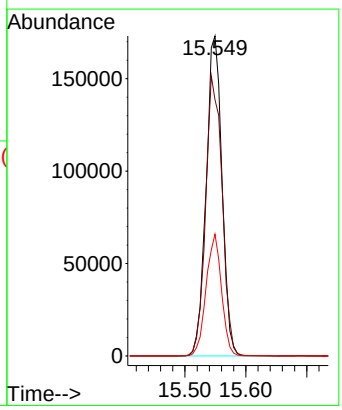




#96
1,2,3-Trichlorobenzene
Concen: 105.748 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:180 Resp: 313033

Ion	Ratio	Lower	Upper
180	100		
182	91.1	46.0	138.0
145	36.9	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	224613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	422167	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	375277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	172321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	469688	144.584	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 289.160%#			
35) Dibromofluoromethane	7.898	113	393306	144.207	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 288.420%#			
50) Toluene-d8	10.331	98	1492050	147.908	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 295.820%#			
62) 4-Bromofluorobenzene	12.617	95	558308	150.185	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 300.380%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	218953	136.294	ug/l	100
3) Chloromethane	2.253	50	315772	145.923	ug/l	97
4) Vinyl Chloride	2.405	62	362119	138.343	ug/l	95
5) Bromomethane	2.808	94	271810	138.413	ug/l	98
6) Chloroethane	2.966	64	247890	143.117	ug/l	99
7) Trichlorofluoromethane	3.301	101	339384	161.851	ug/l	98
8) Diethyl Ether	3.722	74	254566	148.178	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	343759	138.957	ug/l	99
10) Methyl Iodide	4.301	142	514954	146.812	ug/l	100
11) Tert butyl alcohol	5.222	59	164147	780.336	ug/l	99
12) 1,1-Dichloroethene	4.076	96	388559	142.642	ug/l	94
13) Acrolein	3.929	56	224901	671.009	ug/l	98
14) Allyl chloride	4.704	41	600290	151.415	ug/l	99
15) Acrylonitrile	5.399	53	629942	769.843	ug/l	99
16) Acetone	4.161	43	528585	702.794	ug/l	100
17) Carbon Disulfide	4.423	76	1081188	147.872	ug/l	98
18) Methyl Acetate	4.710	43	371024	155.895	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	719923	149.999	ug/l	100
20) Methylene Chloride	4.960	84	437275	125.744	ug/l	95
21) trans-1,2-Dichloroethene	5.454	96	427242	147.794	ug/l	96
22) Diisopropyl ether	6.344	45	1260898	150.866	ug/l	98
23) Vinyl Acetate	6.283	43	4356523	793.927	ug/l	99
24) 1,1-Dichloroethane	6.240	63	782153	146.472	ug/l	99
25) 2-Butanone	7.191	43	837991	783.936	ug/l	100
26) 2,2-Dichloropropane	7.185	77	393976	147.064	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	518413	153.420	ug/l	98
28) Bromochloromethane	7.532	49	356684	146.781	ug/l	99
29) Tetrahydrofuran	7.551	42	549203	779.054	ug/l	99
30) Chloroform	7.691	83	823850	145.528	ug/l	98
31) Cyclohexane	7.971	56	645762	139.490	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	591372	143.816	ug/l	98
36) 1,1-Dichloropropene	8.093	75	556189	144.659	ug/l	99
37) Ethyl Acetate	7.276	43	348970	154.109	ug/l	99
38) Carbon Tetrachloride	8.087	117	544688	146.799	ug/l	97
39) Methylcyclohexane	9.343	83	732413	156.286	ug/l	99
40) Benzene	8.337	78	1770706	148.159	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	205729	160.204	ug/l		97
42) 1,2-Dichloroethane	8.410	62	552184	144.388	ug/l		100
43) Isopropyl Acetate	8.435	43	665712	159.788	ug/l		100
44) Trichloroethene	9.099	130	424873	149.281	ug/l		93
45) 1,2-Dichloropropane	9.374	63	429280	148.679	ug/l		100
46) Dibromomethane	9.465	93	277058	148.678	ug/l		99
47) Bromodichloromethane	9.648	83	653476	152.185	ug/l		99
48) Methyl methacrylate	9.441	41	330511	164.326	ug/l		99
49) 1,4-Dioxane	9.459	88	79016	3279.484	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.215	43	1817273	772.800	ug/l		99
52) Toluene	10.392	92	1142813	151.812	ug/l		96
53) t-1,3-Dichloropropene	10.605	75	654765	162.760	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	716583	157.011	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	364680	147.271	ug/l		98
56) Ethyl methacrylate	10.648	69	553265	166.963	ug/l		99
57) 1,3-Dichloropropane	10.934	76	644418	149.298	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	1437682	784.377	ug/l		99
59) 2-Hexanone	10.971	43	1278917	785.288	ug/l		98
60) Dibromochloromethane	11.129	129	442362	156.387	ug/l		99
61) 1,2-Dibromoethane	11.239	107	363192	150.929	ug/l		96
64) Tetrachloroethene	10.867	164	326491	150.622	ug/l		94
65) Chlorobenzene	11.660	112	1230240	150.609	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	400167	157.017	ug/l		97
67) Ethyl Benzene	11.733	91	2162983	156.328	ug/l		97
68) m/p-Xylenes	11.837	106	1643338	307.801	ug/l		100
69) o-Xylene	12.166	106	786831	159.450	ug/l		99
70) Styrene	12.178	104	1406640	160.482	ug/l		97
71) Bromoform	12.349	173	238675	163.720	ug/l	#	93
73) Isopropylbenzene	12.464	105	1977280	164.188	ug/l		99
74) N-amyl acetate	12.269	43	589285	170.556	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	449708	157.276	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	576261	217.539	ug/l		55
77) Bromobenzene	12.745	156	440559	153.167	ug/l		98
78) n-propylbenzene	12.800	91	2346333	158.253	ug/l		99
79) 2-Chlorotoluene	12.891	91	1434986	156.820	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	1639597	160.368	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	157641	174.499	ug/l		96
82) 4-Chlorotoluene	12.983	91	1515300	155.863	ug/l		98
83) tert-Butylbenzene	13.202	119	1383127	163.006	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	1646381	158.189	ug/l		100
85) sec-Butylbenzene	13.379	105	2047763	159.625	ug/l		99
86) p-Isopropyltoluene	13.495	119	1712519	160.127	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	867827	151.629	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	851057	147.144	ug/l		99
89) n-Butylbenzene	13.818	91	1657492	159.527	ug/l		98
90) Hexachloroethane	14.086	117	322461	164.868	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	798257	153.968	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	81063	159.472	ug/l		94
93) 1,2,4-Trichlorobenzene	15.123	180	499355	161.006	ug/l		98
94) Hexachlorobutadiene	15.226	225	218963	157.938	ug/l		97
95) Naphthalene	15.360	128	1348344	177.424	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	466811	165.423	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

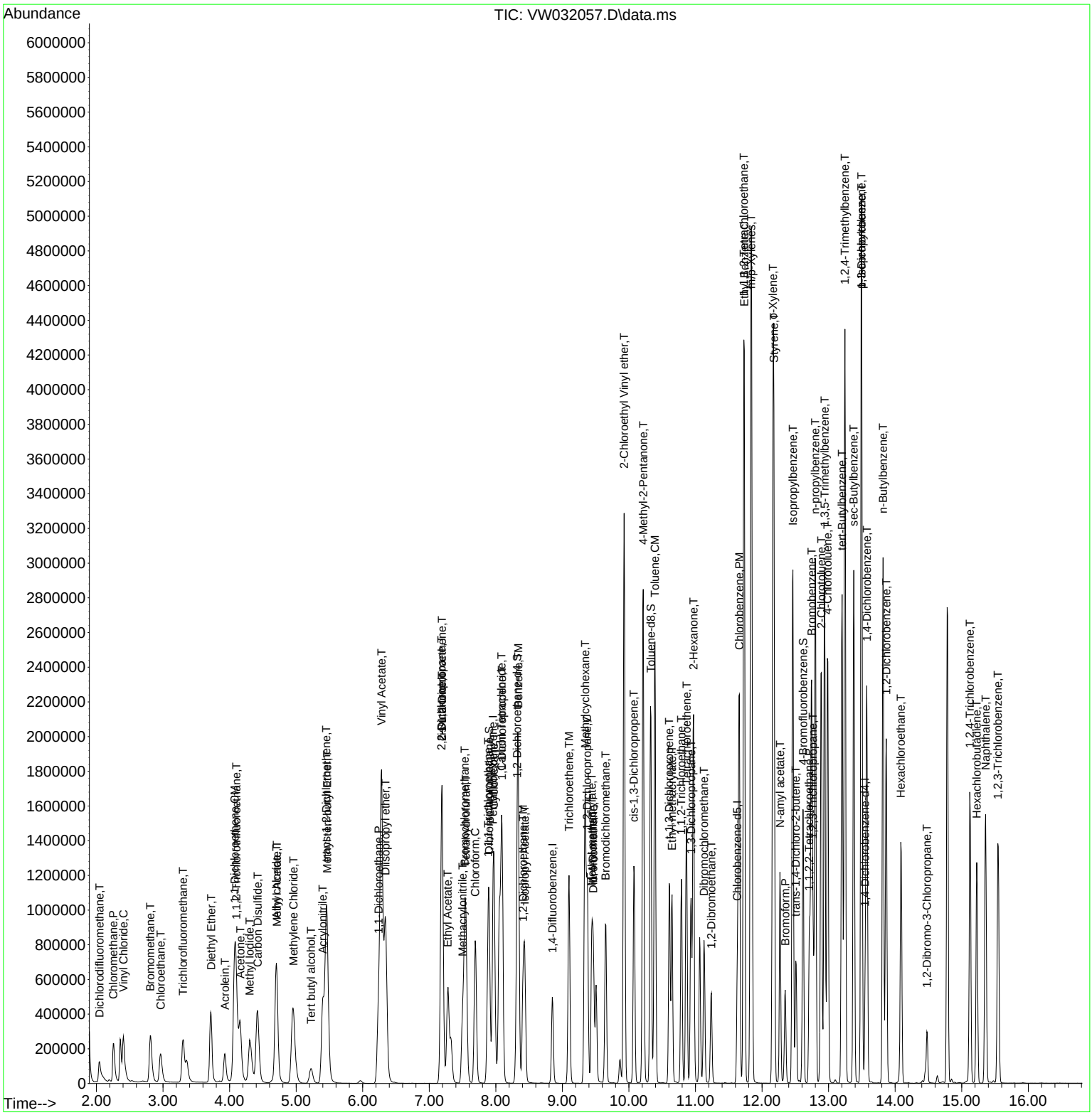
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

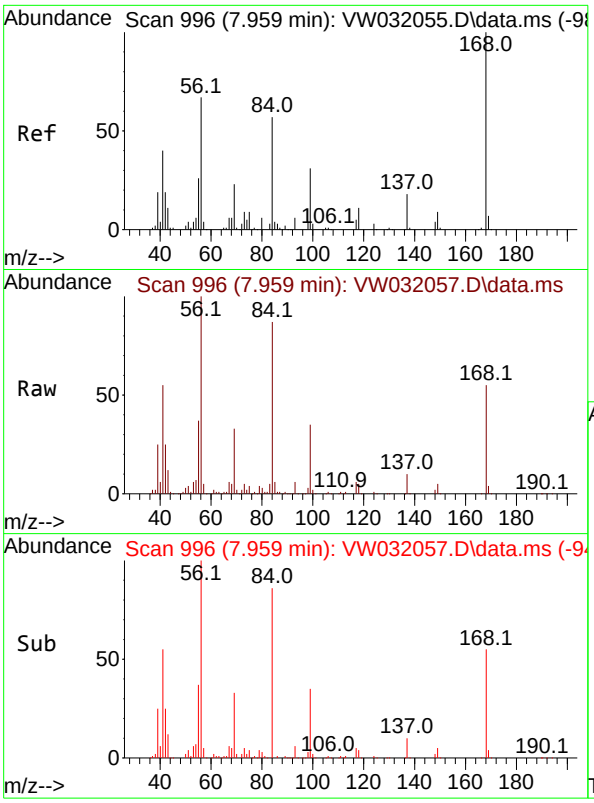
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



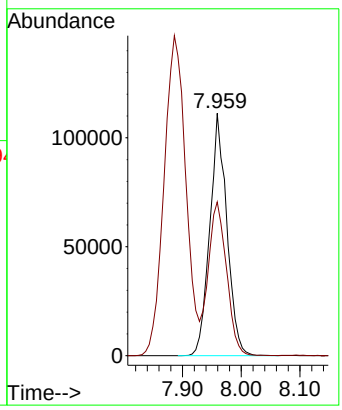


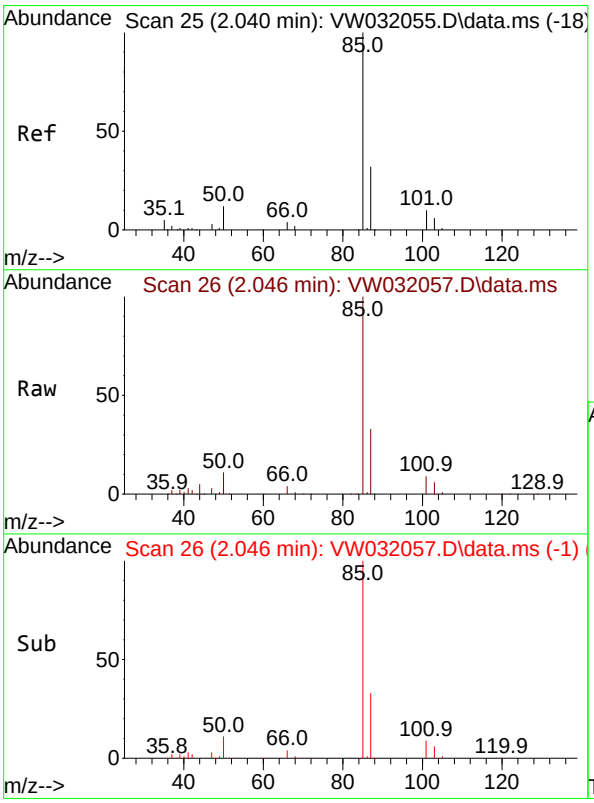
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 224613

Ion	Ratio	Lower	Upper
168	100		
99	63.4	56.0	84.0

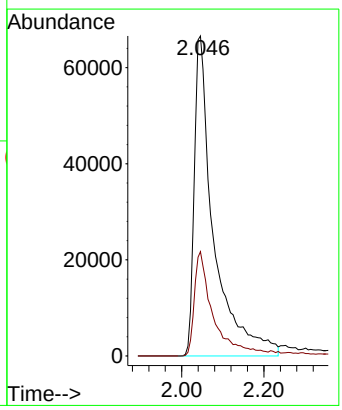


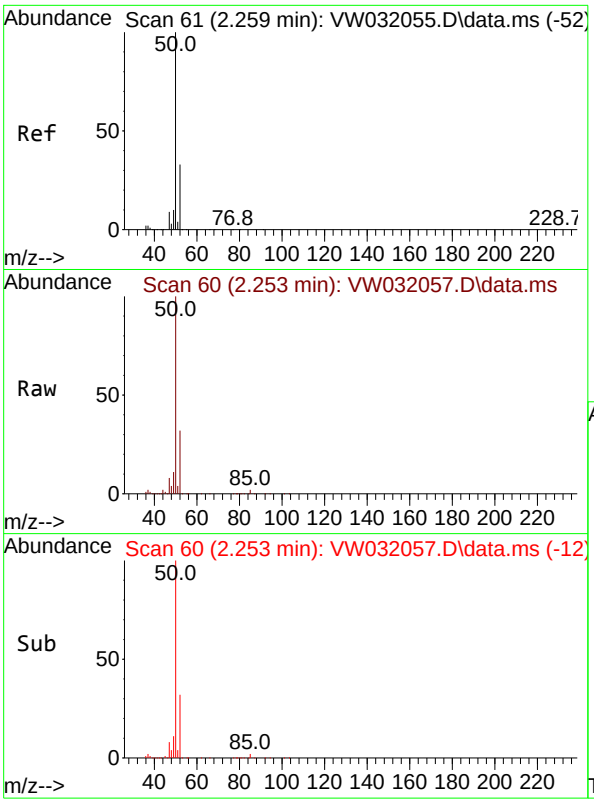


#2
Dichlorodifluoromethane
Concen: 136.294 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 85 Resp: 218953

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6



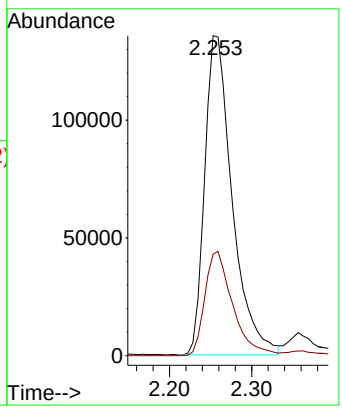


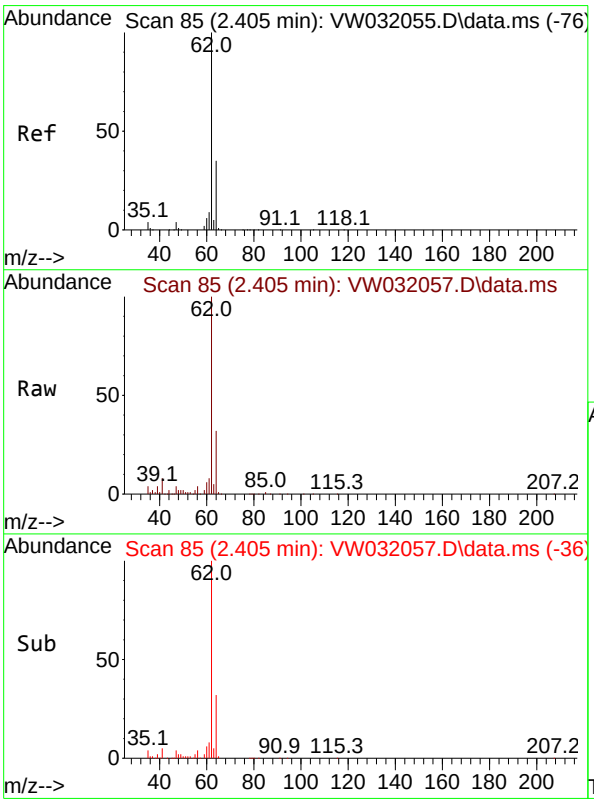
#3
Chloromethane
Concen: 145.923 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 315772

Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.6	39.8

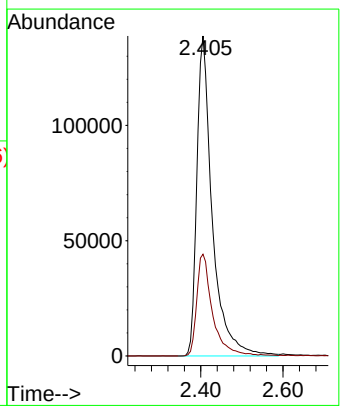


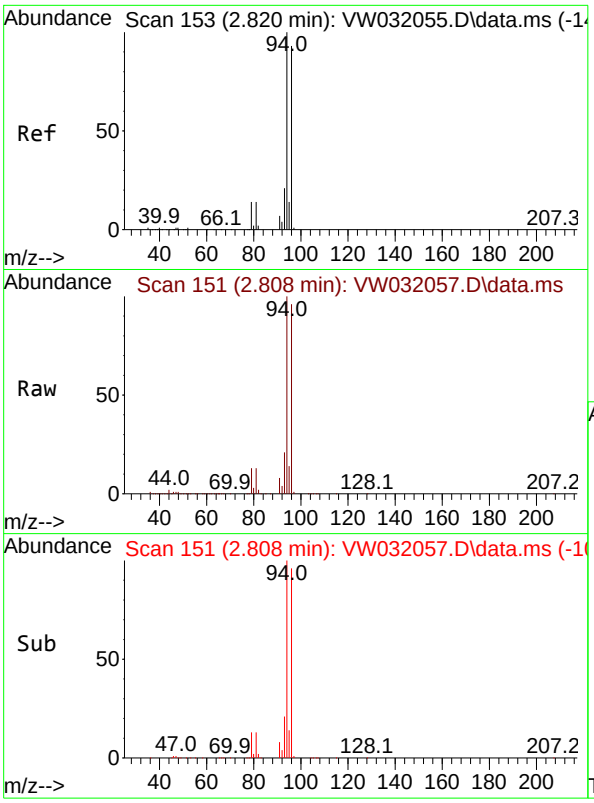


#4
Vinyl Chloride
Concen: 138.343 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 362119

Ion	Ratio	Lower	Upper
62	100		
64	31.8	27.8	41.6



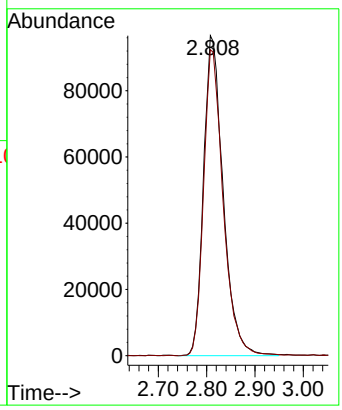


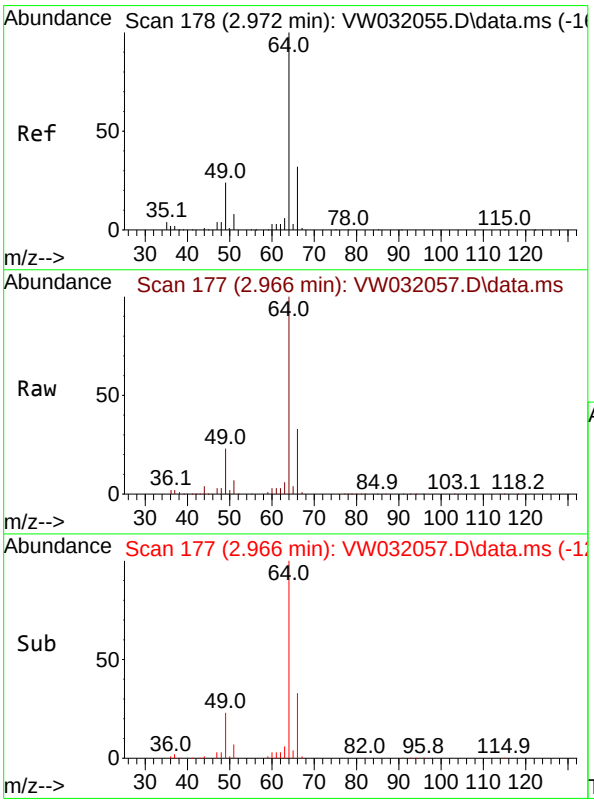
#5
Bromomethane
Concen: 138.413 ug/l
RT: 2.808 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 271810

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.7	112.1

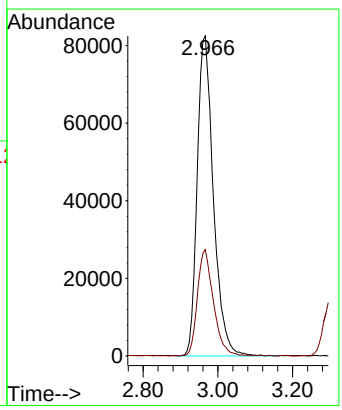


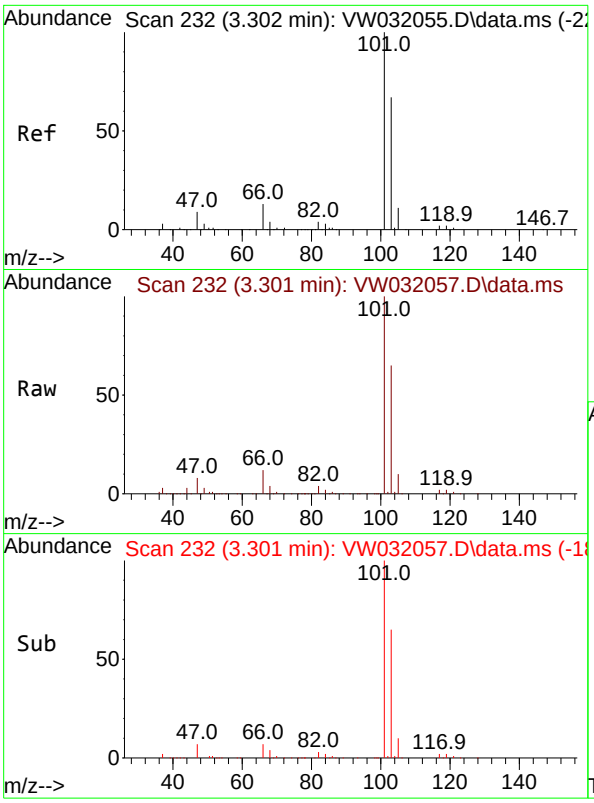


#6
Chloroethane
Concen: 143.117 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 64 Resp: 247890

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.0	39.0



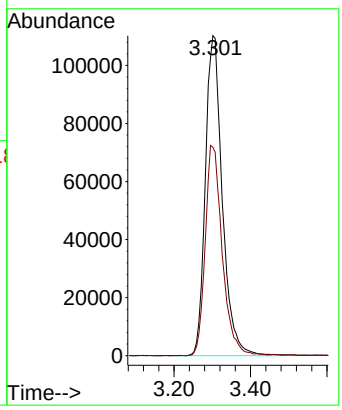


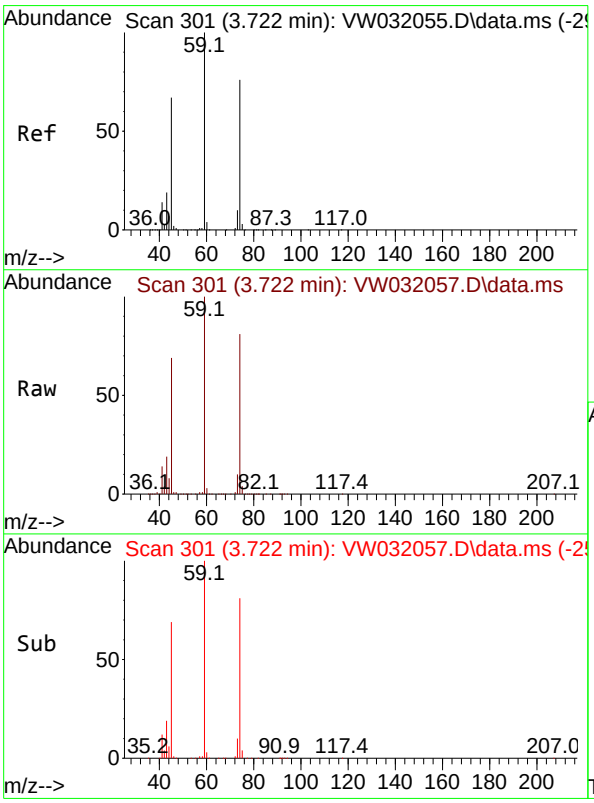
#7
Trichlorofluoromethane
Concen: 161.851 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 339384

Ion	Ratio	Lower	Upper
101	100		
103	65.1	53.4	80.0

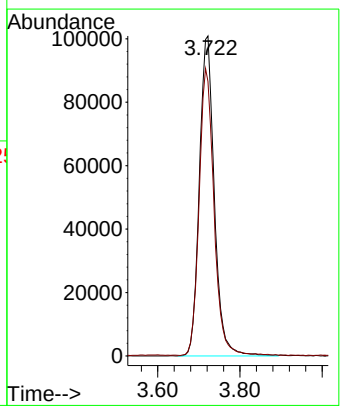


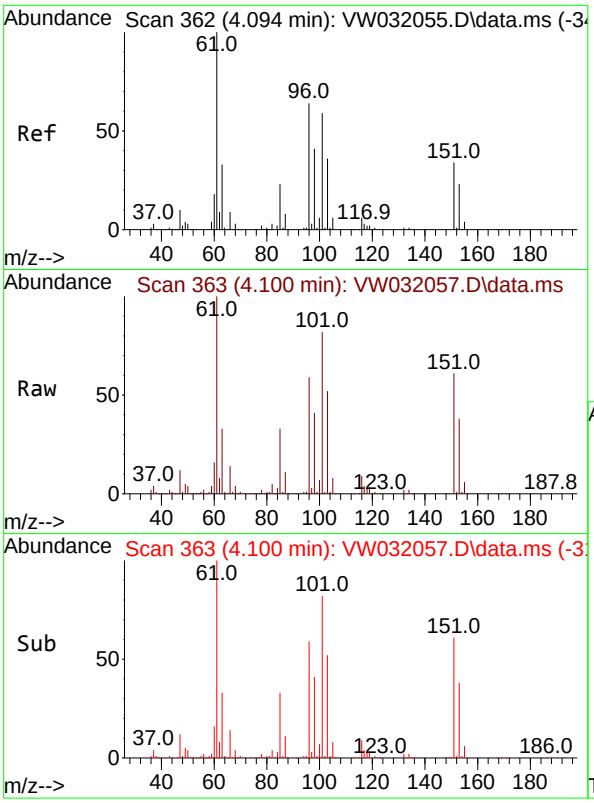


#8
Diethyl Ether
Concen: 148.178 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 74 Resp: 254566

Ion	Ratio	Lower	Upper
74	100		
45	89.1	45.4	136.2



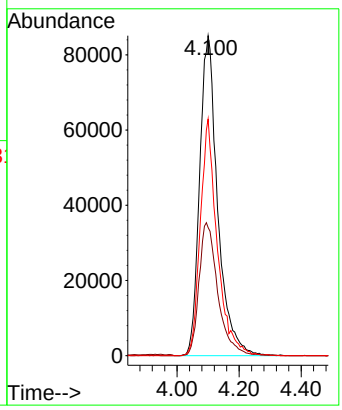


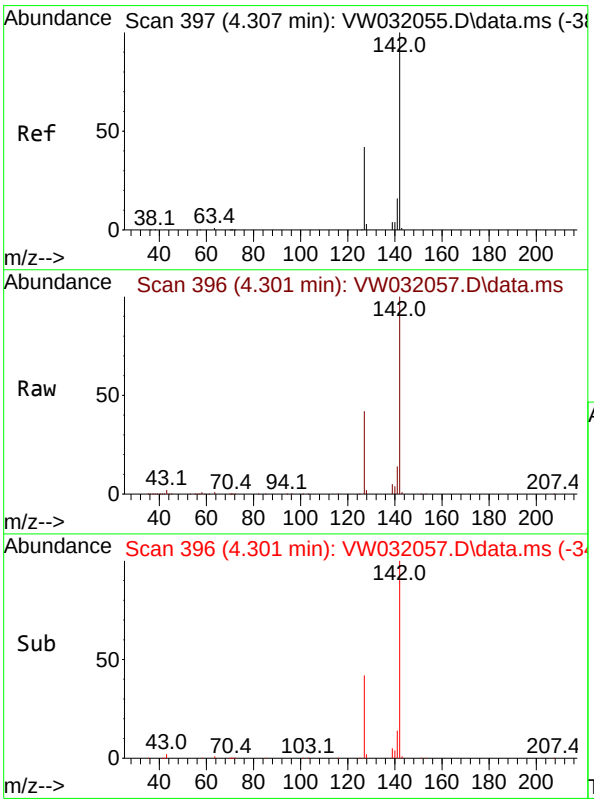
#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.957 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 343759

Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.9	52.3
151	69.6	56.2	84.4

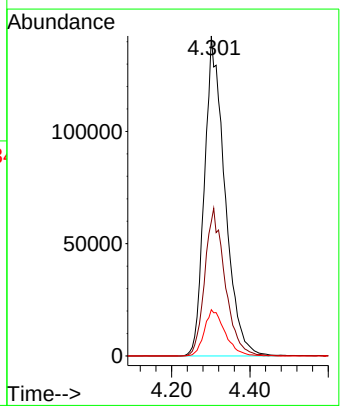


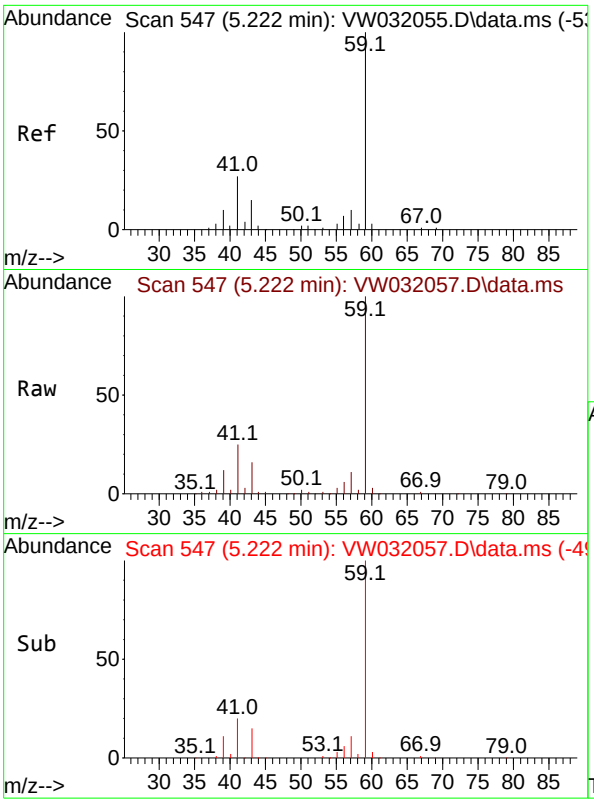


#10
Methyl Iodide
Concen: 146.812 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:142 Resp: 514954

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.6	55.0
141	14.7	12.1	18.1



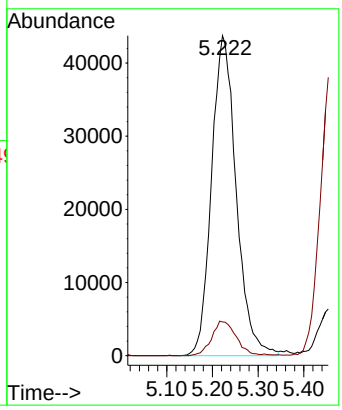


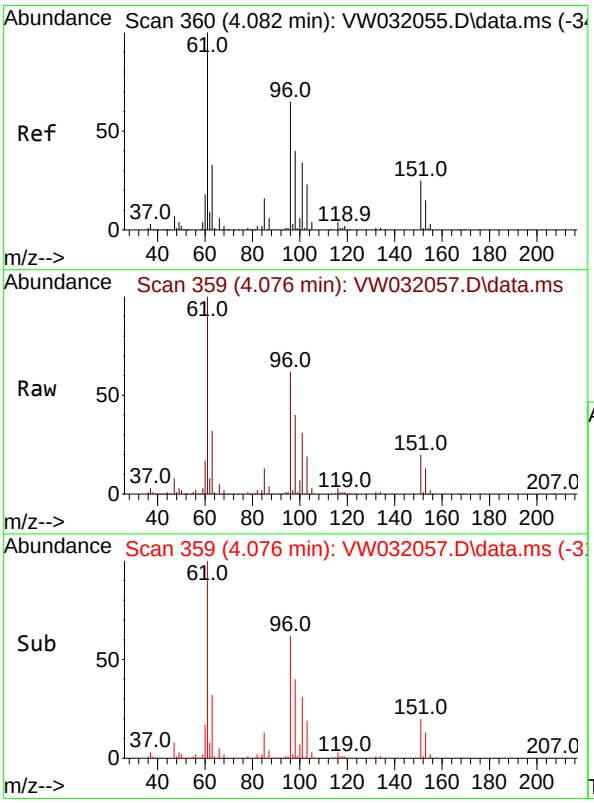
#11
Tert butyl alcohol
Concen: 780.336 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 164147

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.7	13.1

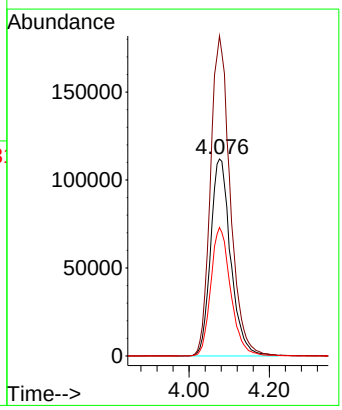


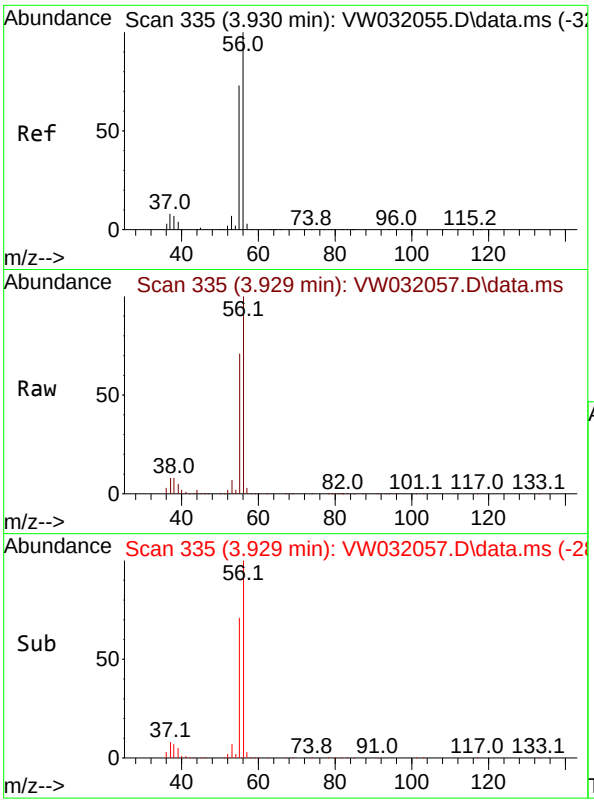


#12
1,1-Dichloroethene
Concen: 142.642 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 388559

Ion	Ratio	Lower	Upper
96	100		
61	162.4	123.4	185.2
98	65.3	49.5	74.3



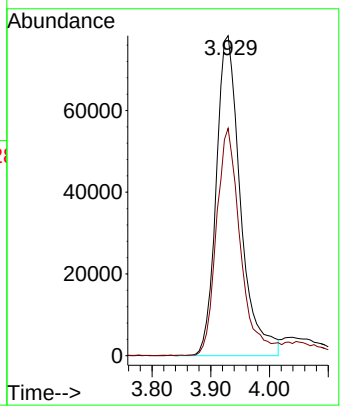


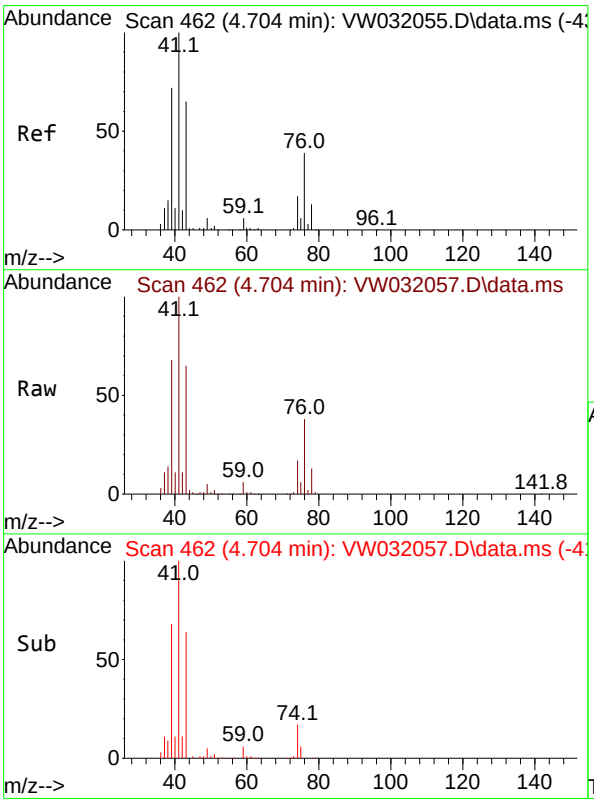
#13
Acrolein
Concen: 671.009 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 224901

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.4	83.2

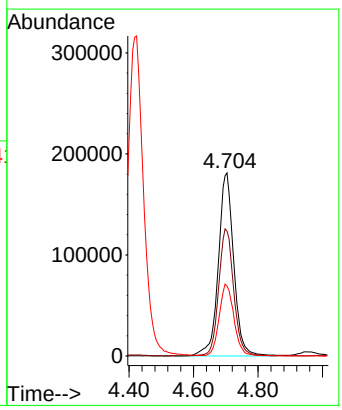


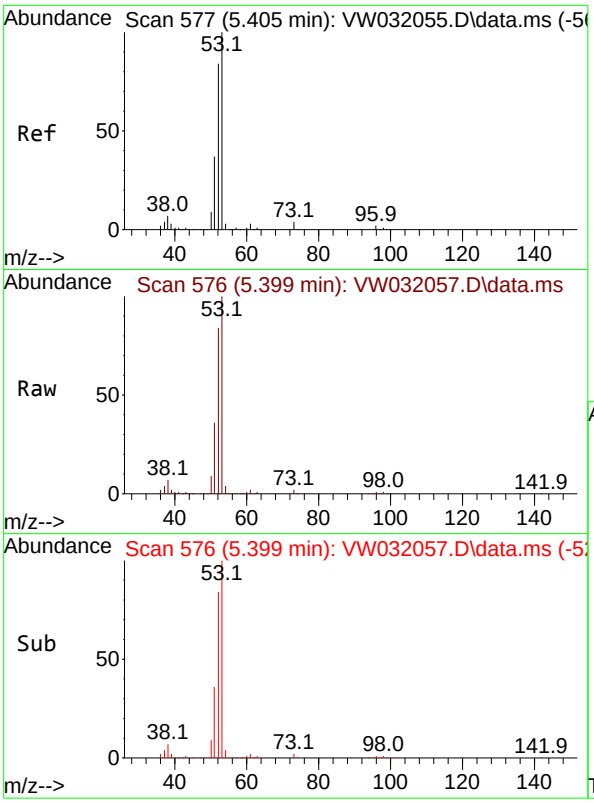


#14
Allyl chloride
Concen: 151.415 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 600290

Ion	Ratio	Lower	Upper
41	100		
39	67.6	54.5	81.7
76	37.6	29.3	43.9



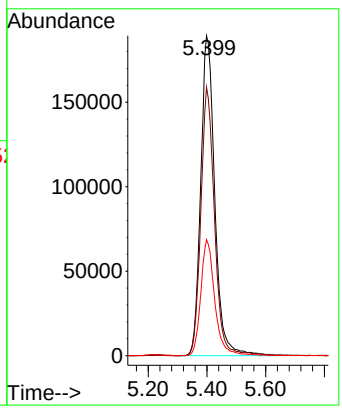


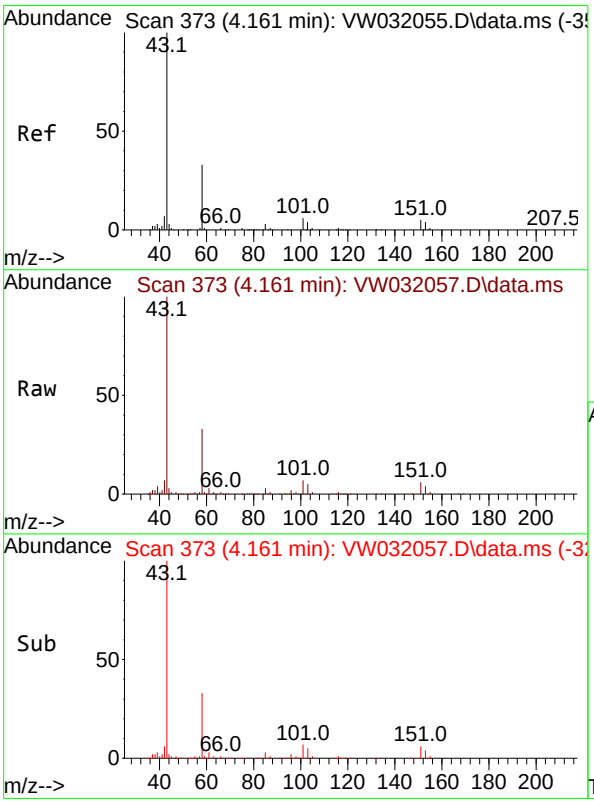
#15
Acrylonitrile
Concen: 769.843 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 629942

Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.1	99.1
51	36.1	29.2	43.8

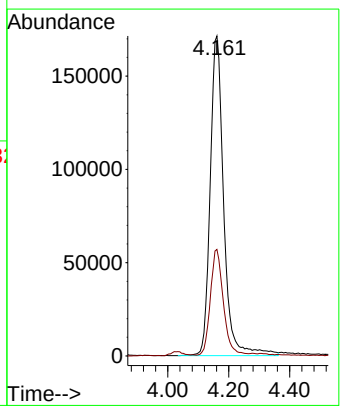


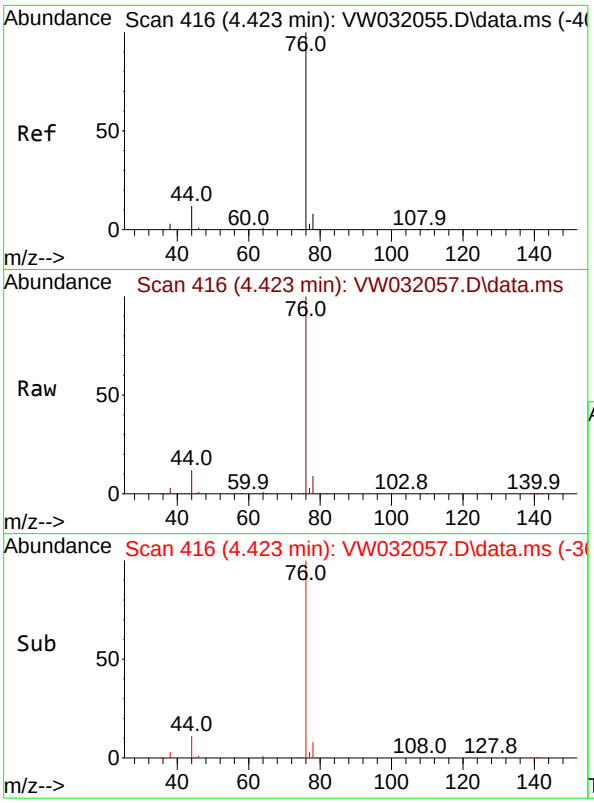


#16
Acetone
Concen: 702.794 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 528585

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8



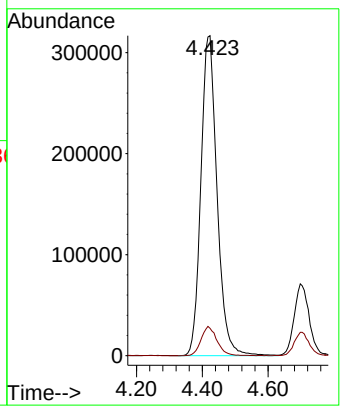


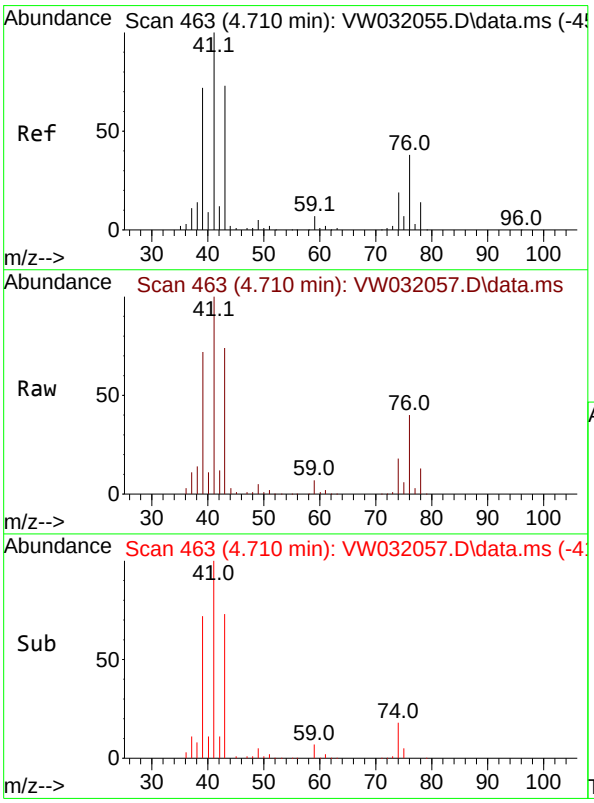
#17
Carbon Disulfide
Concen: 147.872 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1081188

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.4	9.6

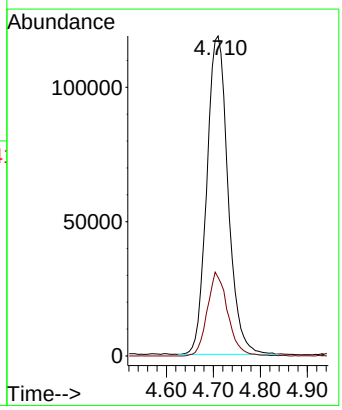


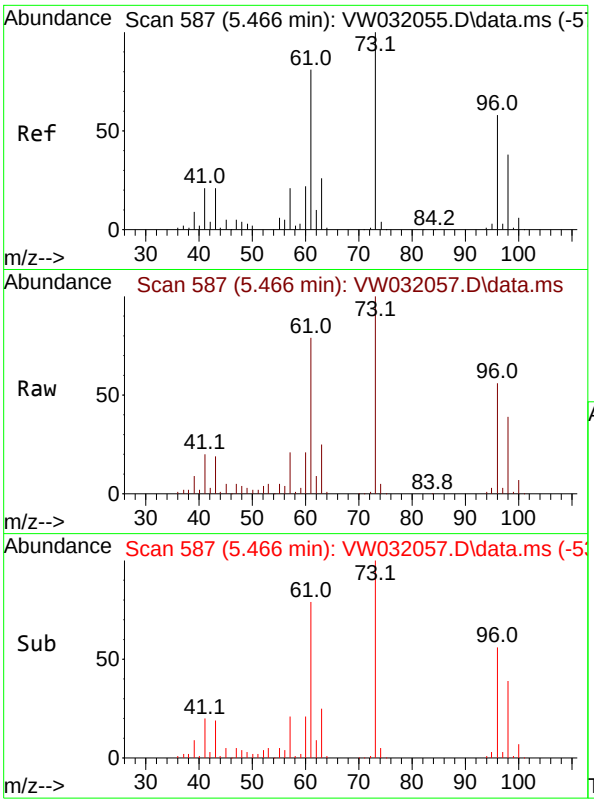


#18
Methyl Acetate
Concen: 155.895 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 371024

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.6	31.0



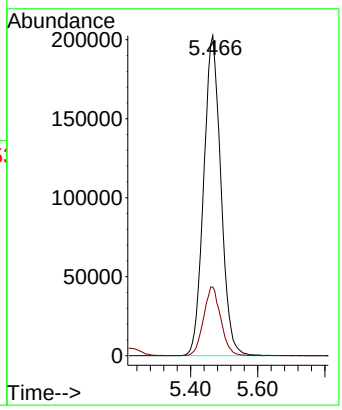


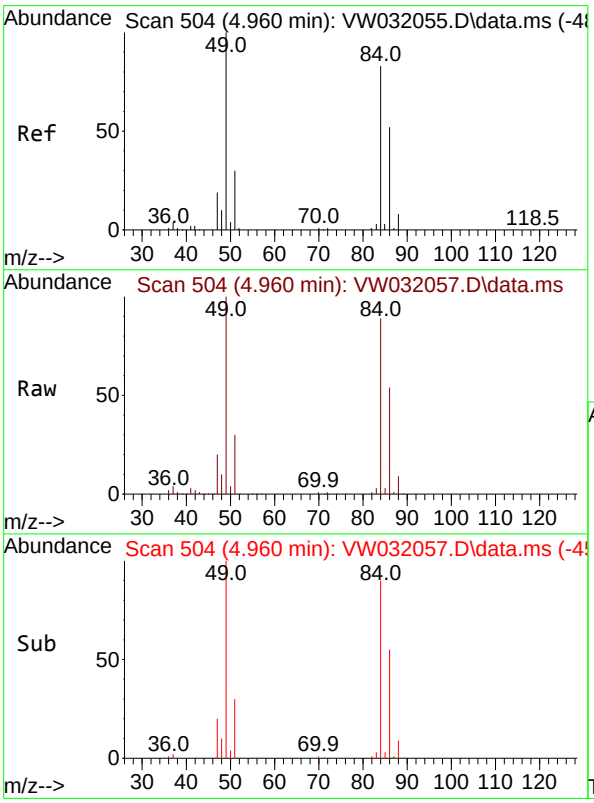
#19
Methyl tert-butyl Ether
Concen: 149.999 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 719923

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.2	25.8

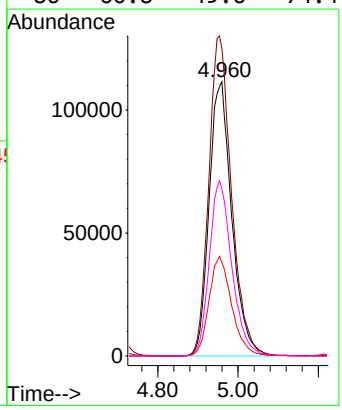


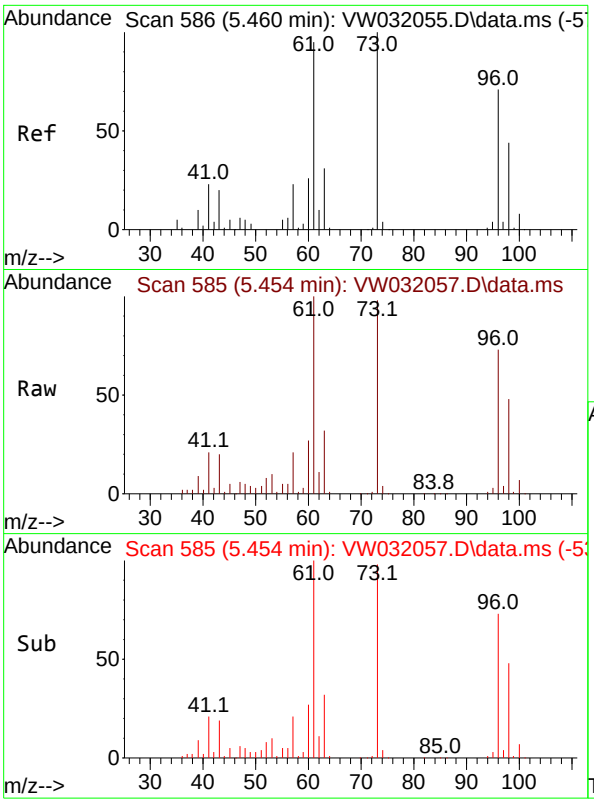


#20
Methylene Chloride
Concen: 125.744 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 84 Resp: 437275

Ion	Ratio	Lower	Upper
84	100		
49	112.3	95.9	143.9
51	34.1	28.6	43.0
86	60.8	49.6	74.4



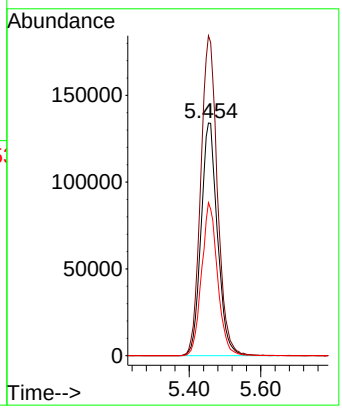


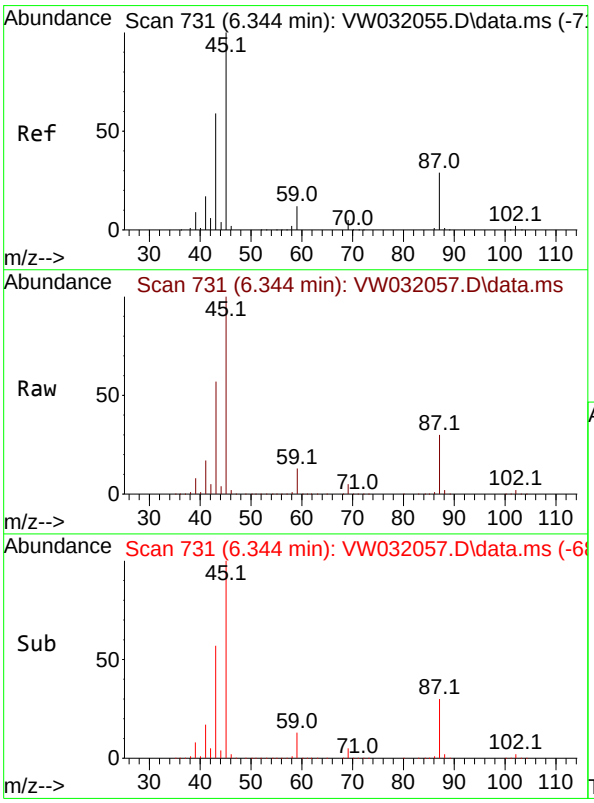
#21
trans-1,2-Dichloroethene
Concen: 147.794 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 427242

Ion	Ratio	Lower	Upper
96	100		
61	137.5	106.8	160.2
98	65.7	49.6	74.4

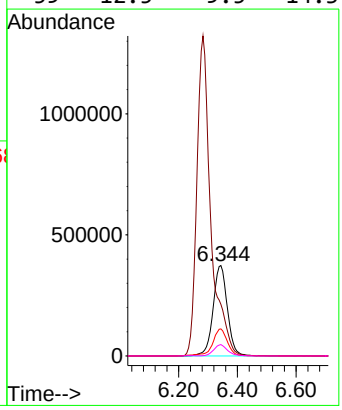


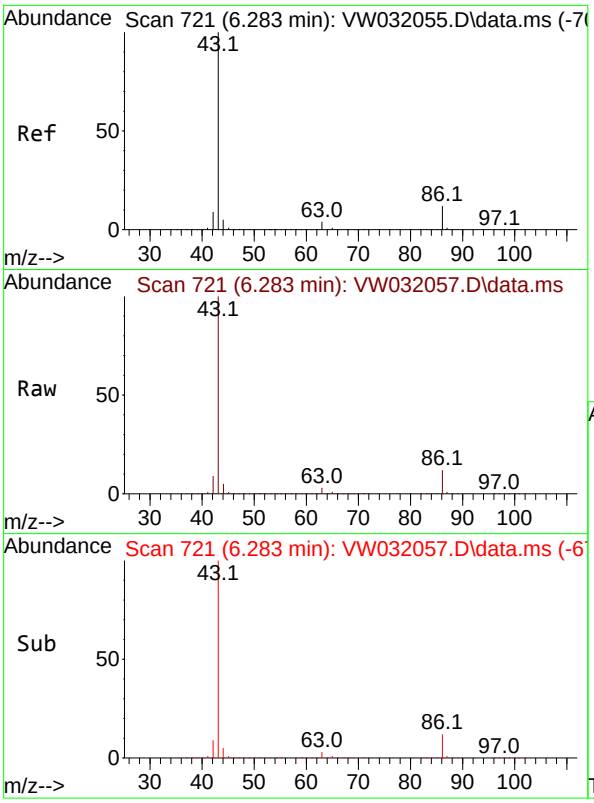


#22
Diisopropyl ether
Concen: 150.866 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 45 Resp: 1260898

Ion	Ratio	Lower	Upper
45	100		
43	57.1	47.0	70.4
87	30.0	23.8	35.8
59	12.5	9.5	14.3



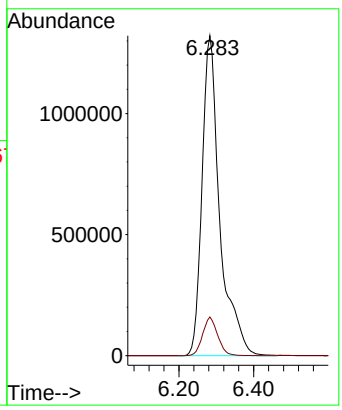


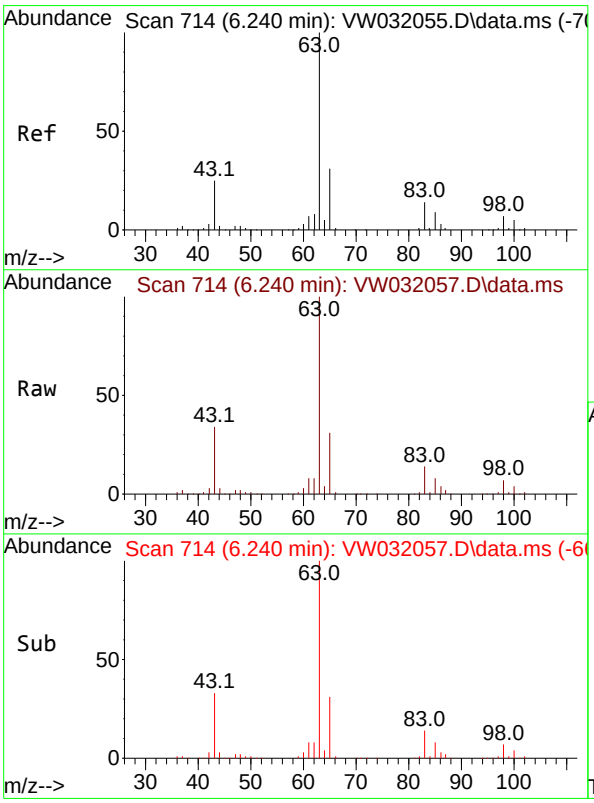
#23
Vinyl Acetate
Concen: 793.927 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 4356523

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.4	14.0

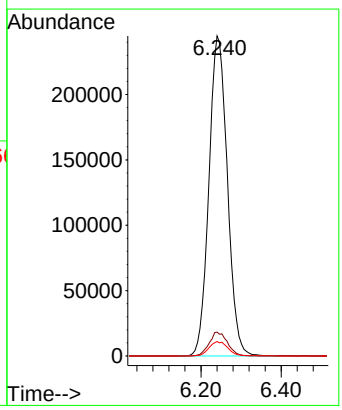


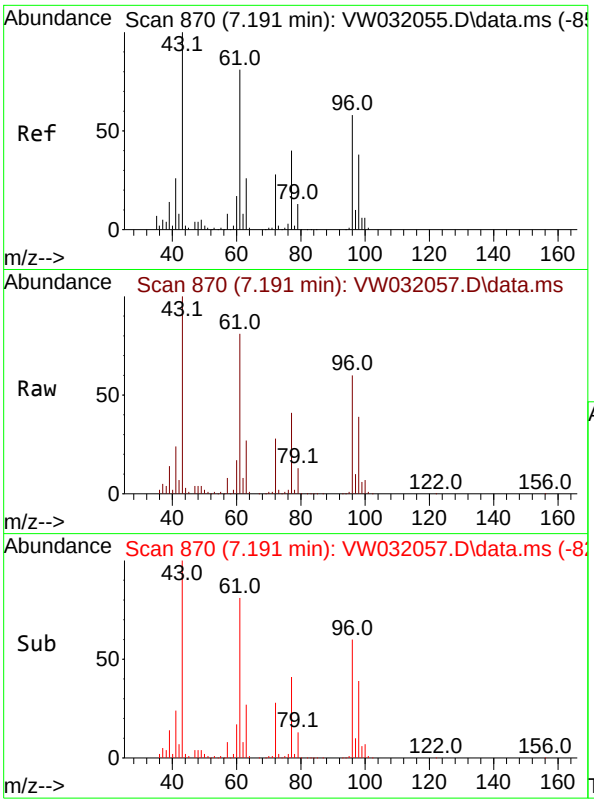


#24
1,1-Dichloroethane
Concen: 146.472 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 782153

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.7	11.1
100	4.5	2.5	7.4



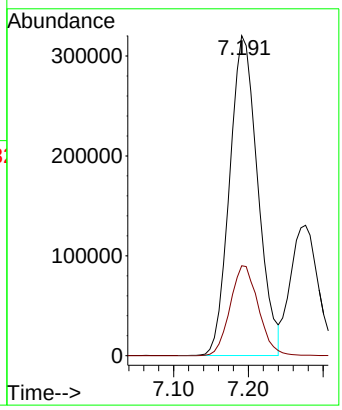


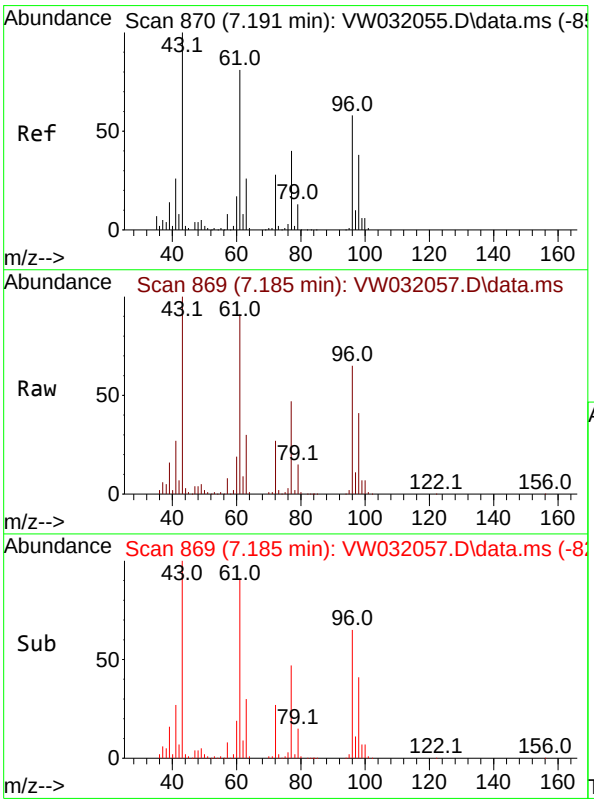
#25
2-Butanone
Concen: 783.936 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 837991

Ion	Ratio	Lower	Upper
43	100		
72	28.1	22.3	33.5

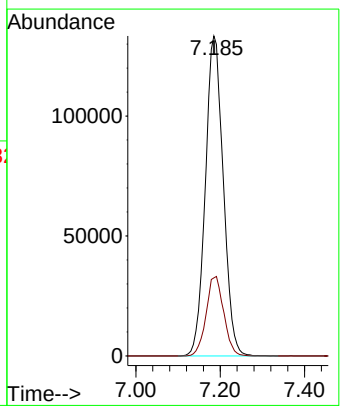


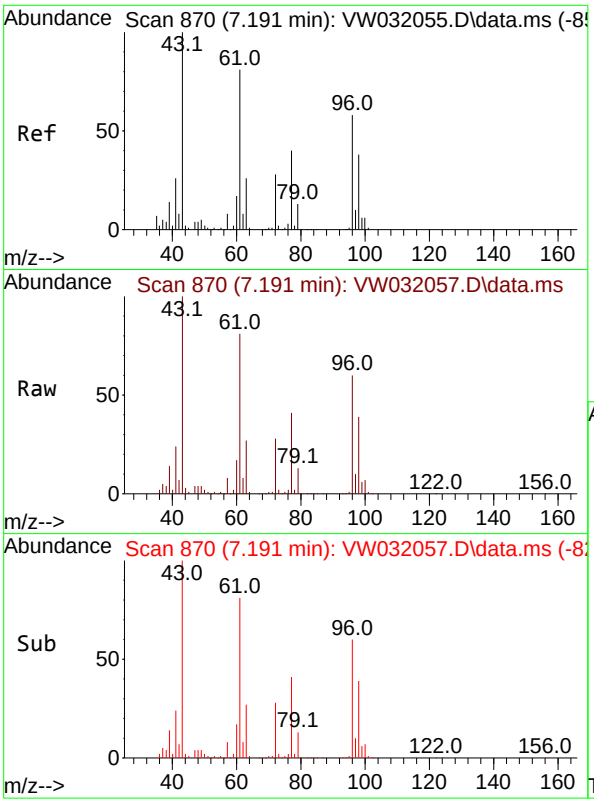


#26
2,2-Dichloropropane
Concen: 147.064 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 77 Resp: 393976

Ion	Ratio	Lower	Upper
77	100		
97	24.4	12.3	36.9



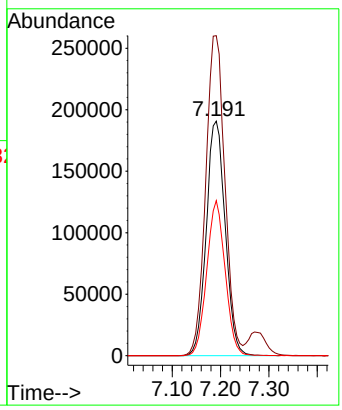


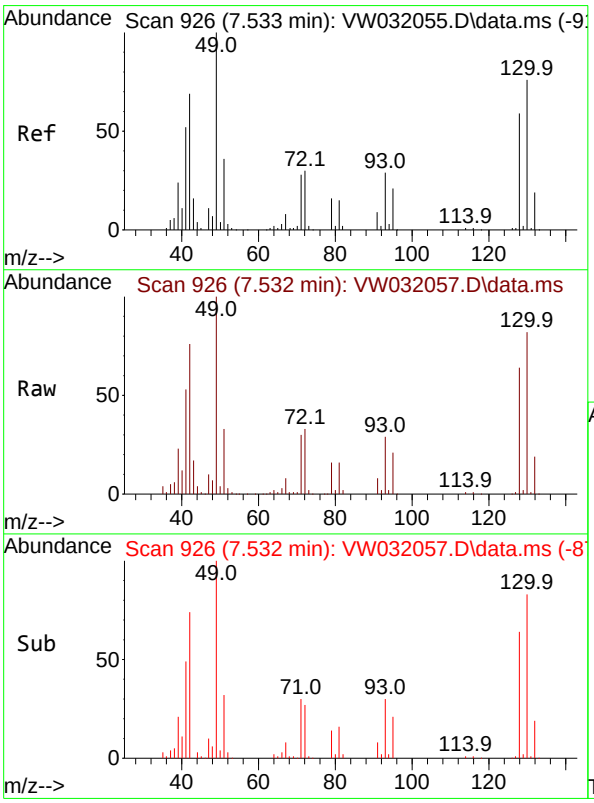
#27
cis-1,2-Dichloroethene
Concen: 153.420 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 518413

Ion	Ratio	Lower	Upper
96	100		
61	138.5	0.0	281.2
98	64.2	0.0	130.8

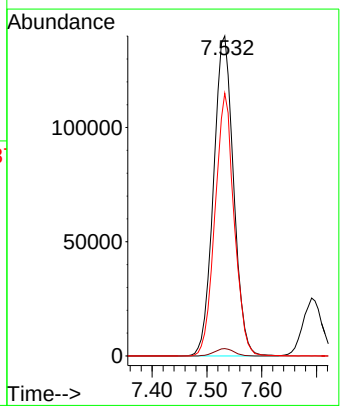


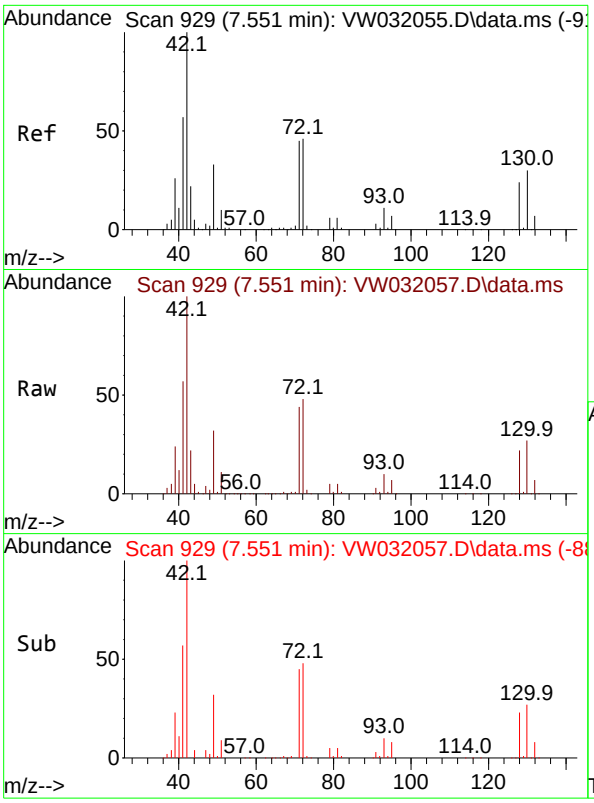


#28
Bromochloromethane
Concen: 146.781 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 49 Resp: 356684

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	78.3	61.9	92.9



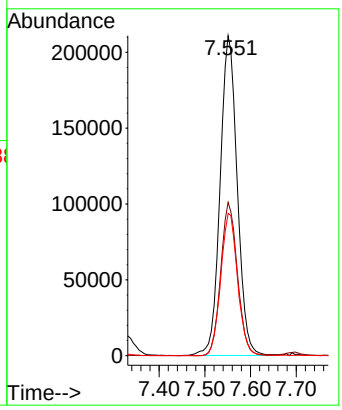


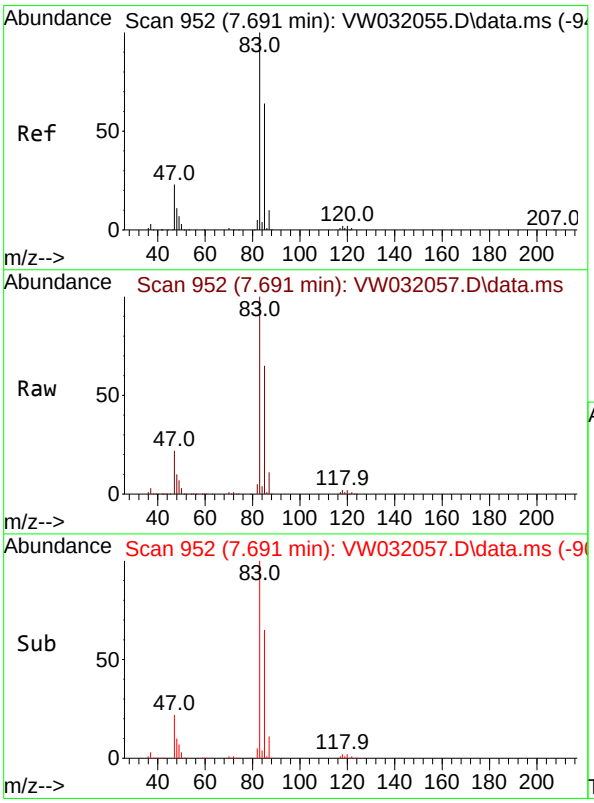
#29
Tetrahydrofuran
Concen: 779.054 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 549203

Ion	Ratio	Lower	Upper
42	100		
72	46.7	36.6	55.0
71	43.8	34.7	52.1

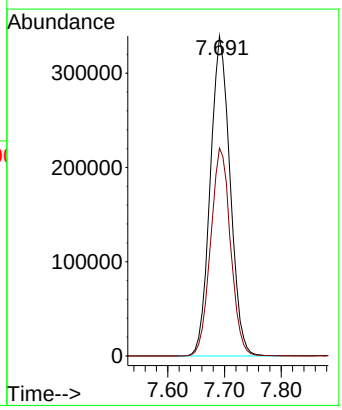


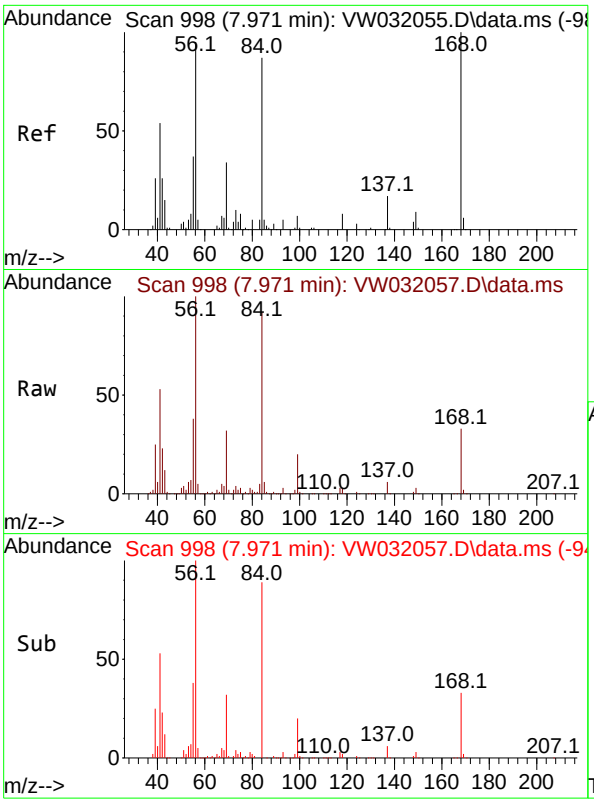


#30
Chloroform
Concen: 145.528 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 823850

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.0	76.4



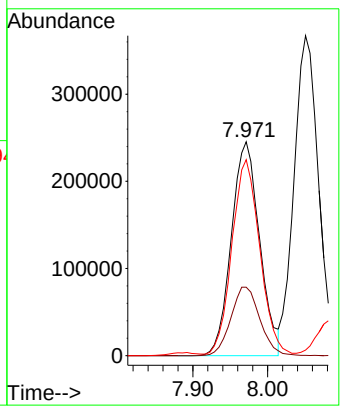


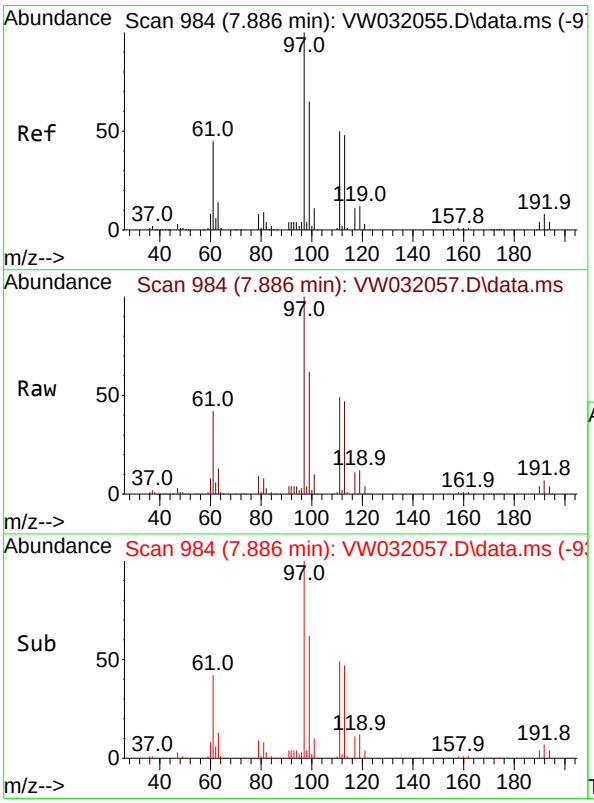
#31
Cyclohexane
Concen: 139.490 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 645762

Ion	Ratio	Lower	Upper
56	100		
69	32.0	28.6	42.8
84	90.3	73.0	109.4

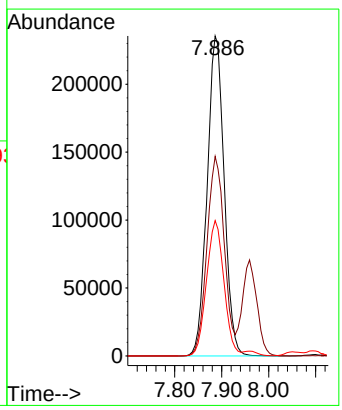


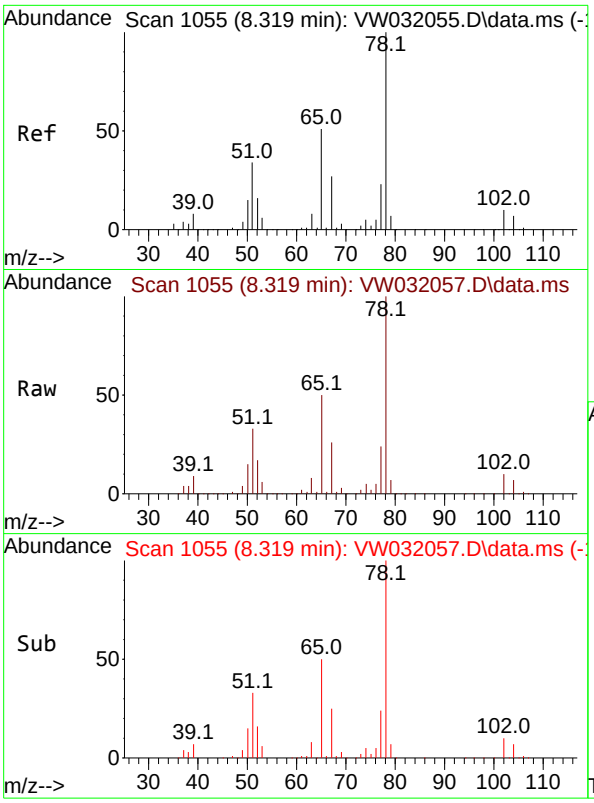


#32
1,1,1-Trichloroethane
Concen: 143.816 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 97 Resp: 591372

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.8	77.8
61	43.3	35.9	53.9



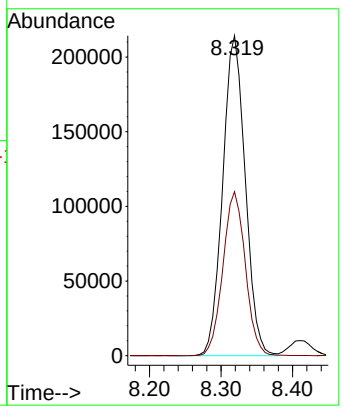


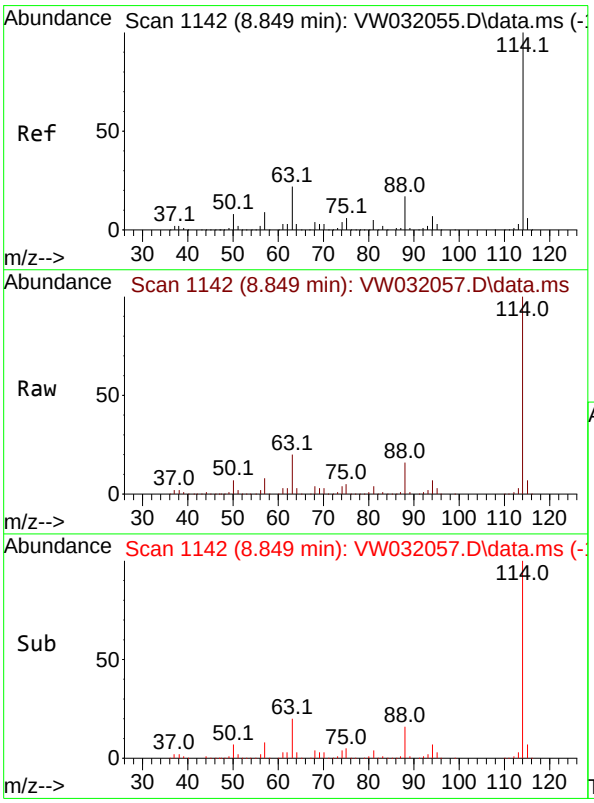
#33
1,2-Dichloroethane-d4
Concen: 144.584 ug/l
RT: 8.319 min Scan# 10
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 469688

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

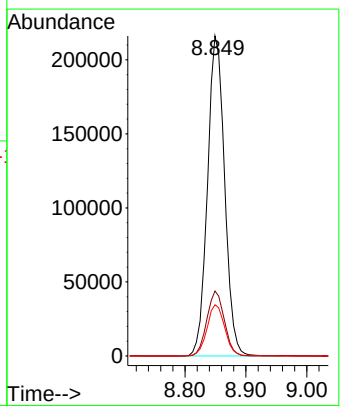


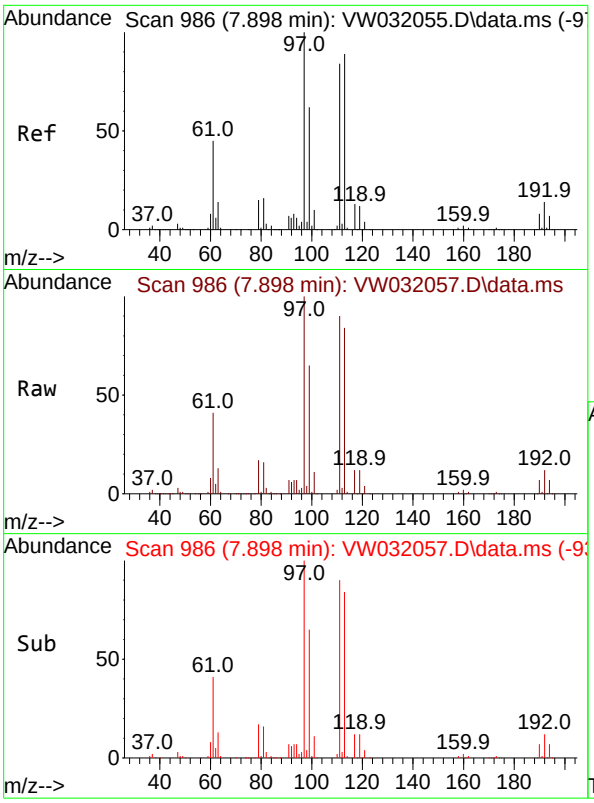


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:114 Resp: 422167

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.0
88	16.0	0.0	33.8



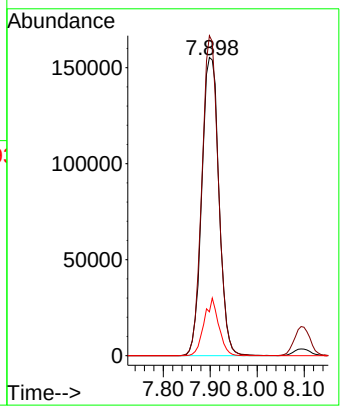


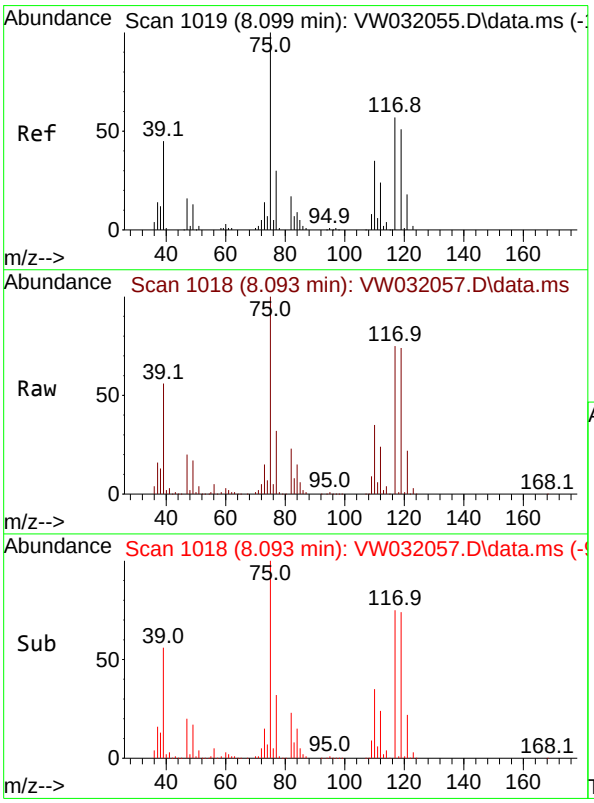
#35
Dibromofluoromethane
Concen: 144.207 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 393306

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.1	120.1
192	16.5	13.1	19.7

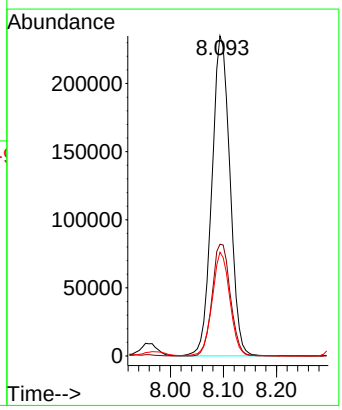


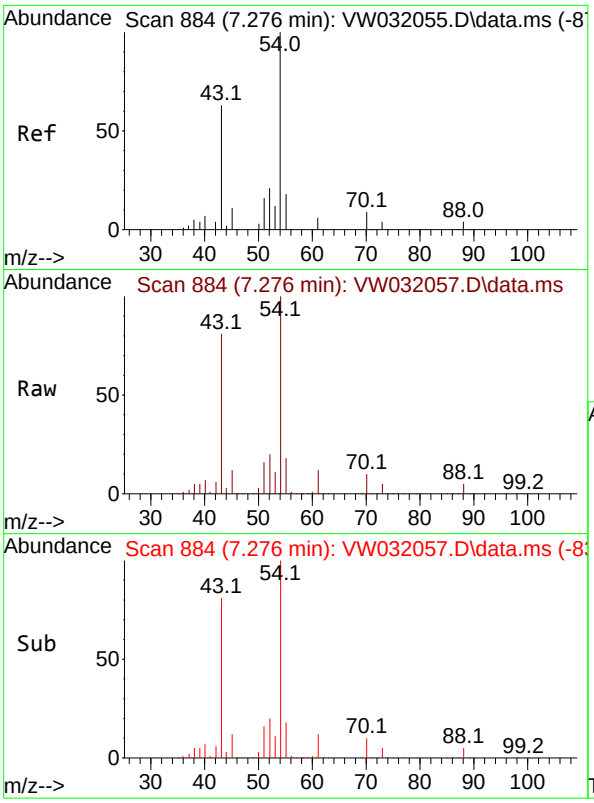


#36
1,1-Dichloropropene
Concen: 144.659 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 556189

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.4	52.2
77	31.7	24.7	37.1



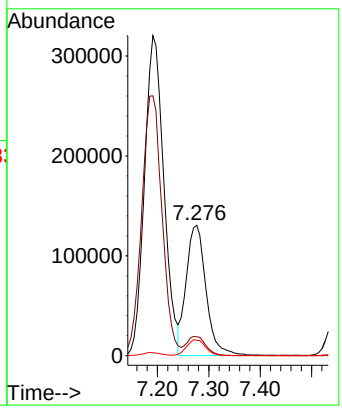


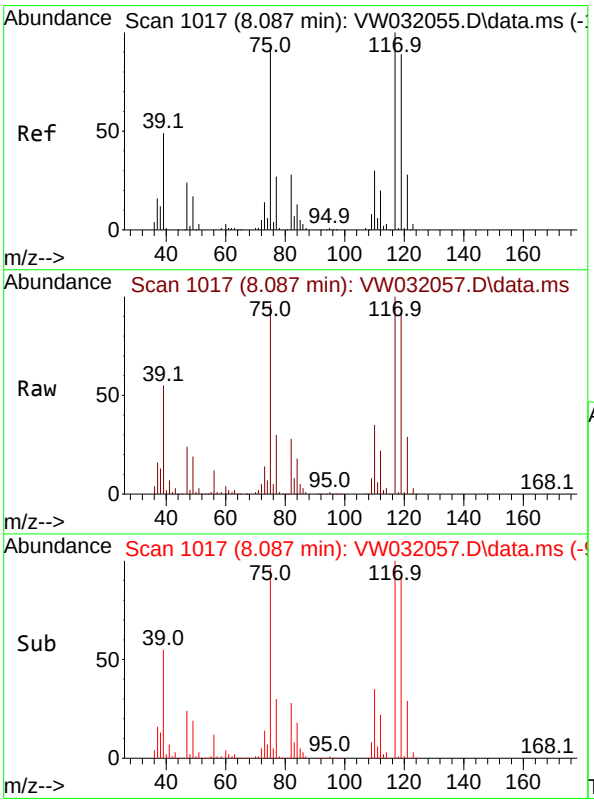
#37
Ethyl Acetate
Concen: 154.109 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 348970

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.8	17.6
70	11.8	9.4	14.0

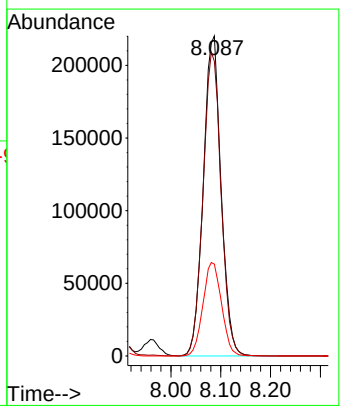


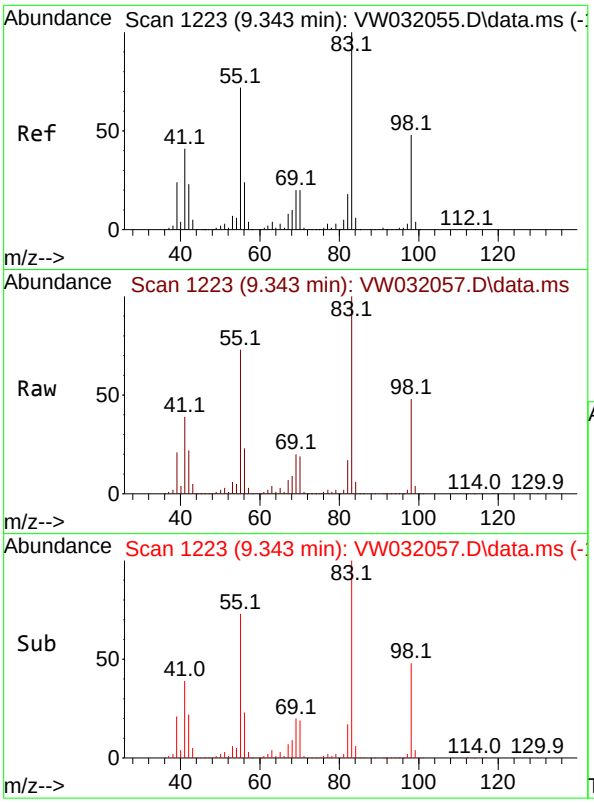


#38
Carbon Tetrachloride
Concen: 146.799 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 544688

Ion	Ratio	Lower	Upper
117	100		
119	92.1	71.4	107.2
121	28.7	22.3	33.5



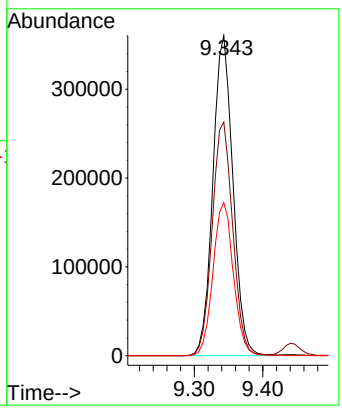


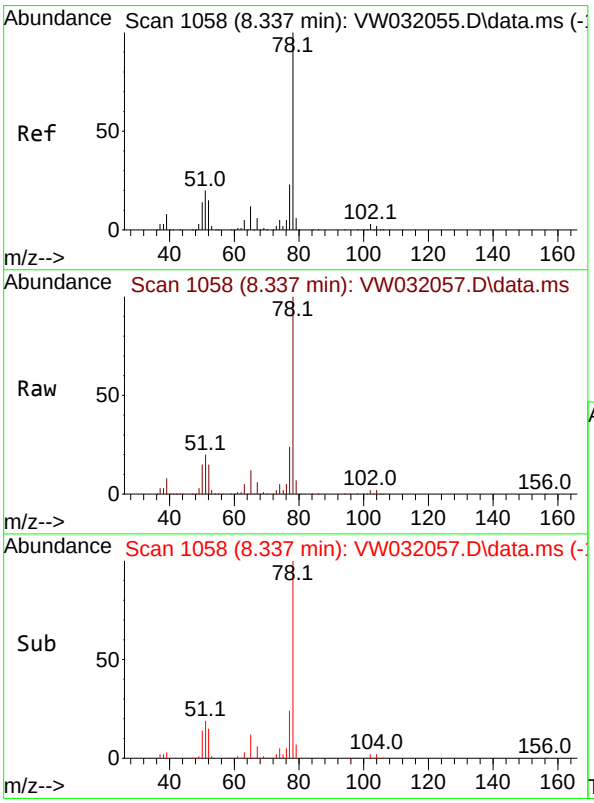
#39
Methylcyclohexane
Concen: 156.286 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 732413

Ion	Ratio	Lower	Upper
83	100		
55	73.0	57.9	86.9
98	47.8	38.3	57.5

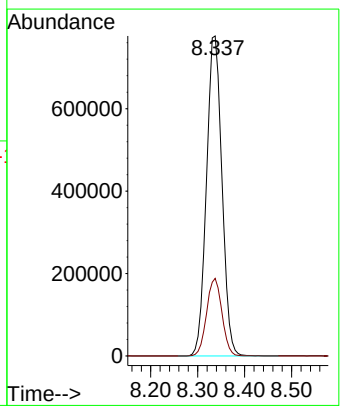


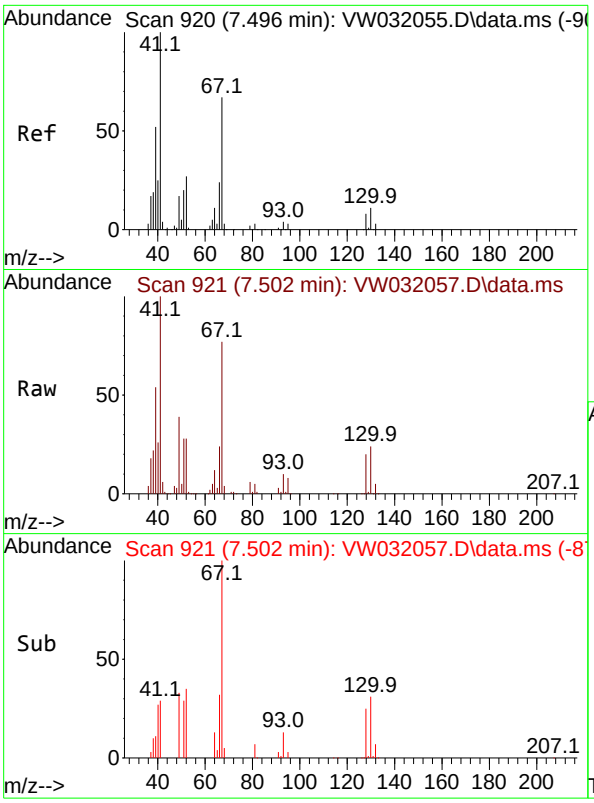


#40
Benzene
Concen: 148.159 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 78 Resp: 1770706

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.4	27.6



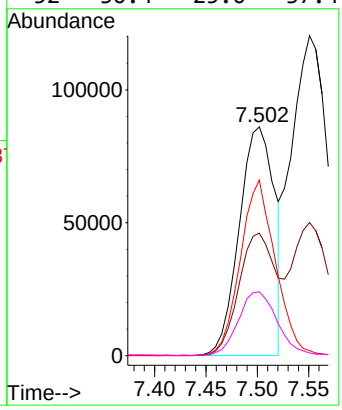


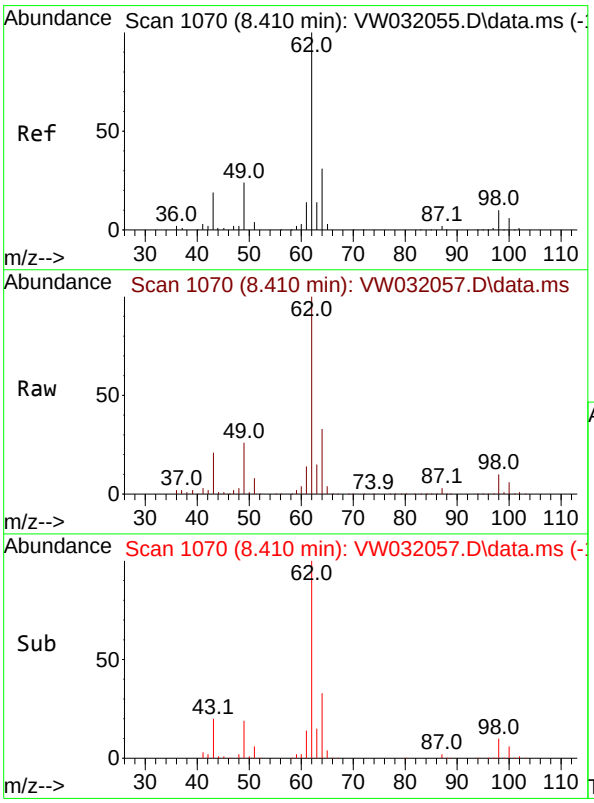
#41
Methacrylonitrile
Concen: 160.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 205729

Ion	Ratio	Lower	Upper
41	100		
39	58.7	42.6	63.8
67	76.7	61.0	91.4
52	30.4	25.0	37.4

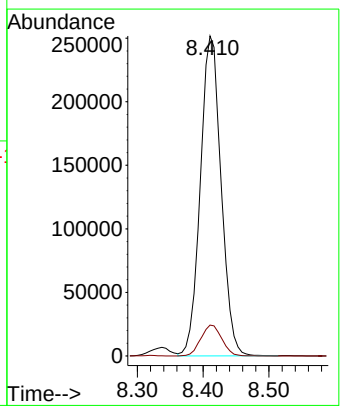


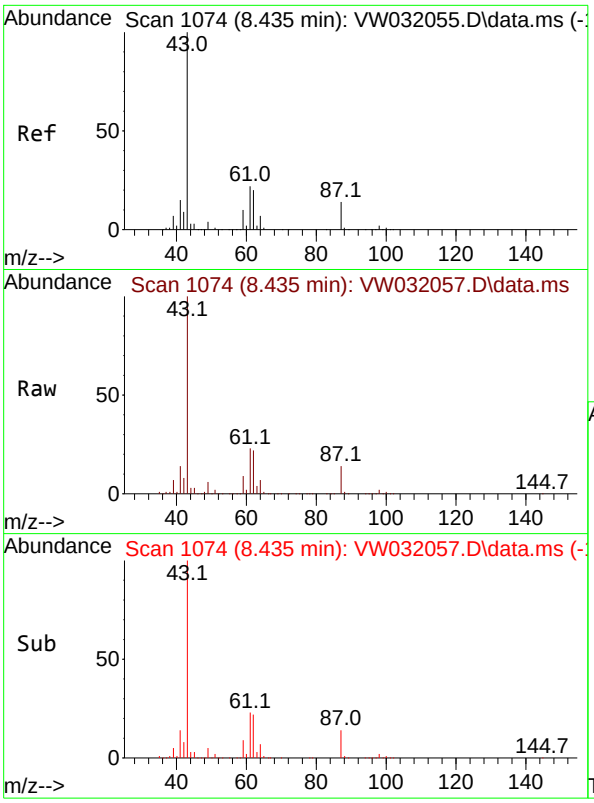


#42
1,2-Dichloroethane
Concen: 144.388 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 552184

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8



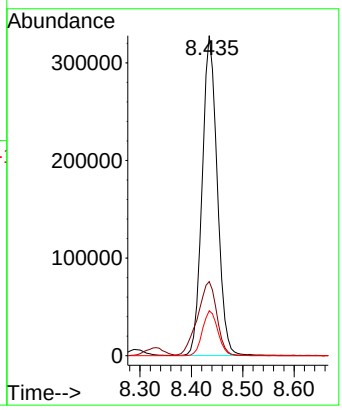


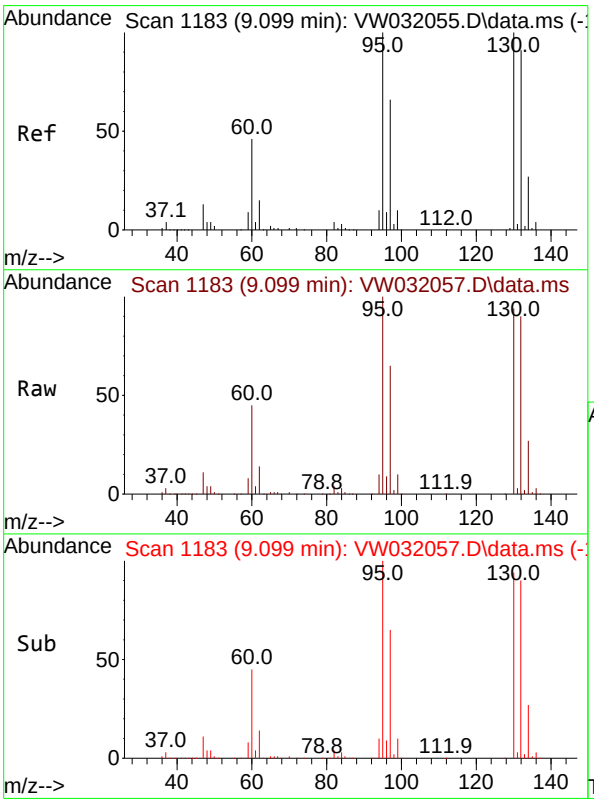
#43
Isopropyl Acetate
Concen: 159.788 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 665712

Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.8	35.8
87	14.5	11.7	17.5

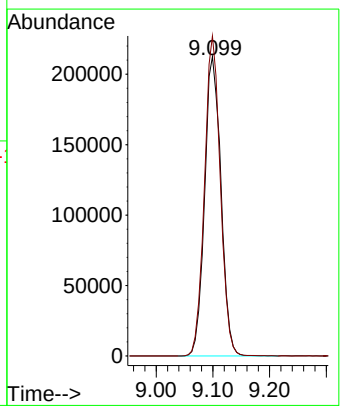


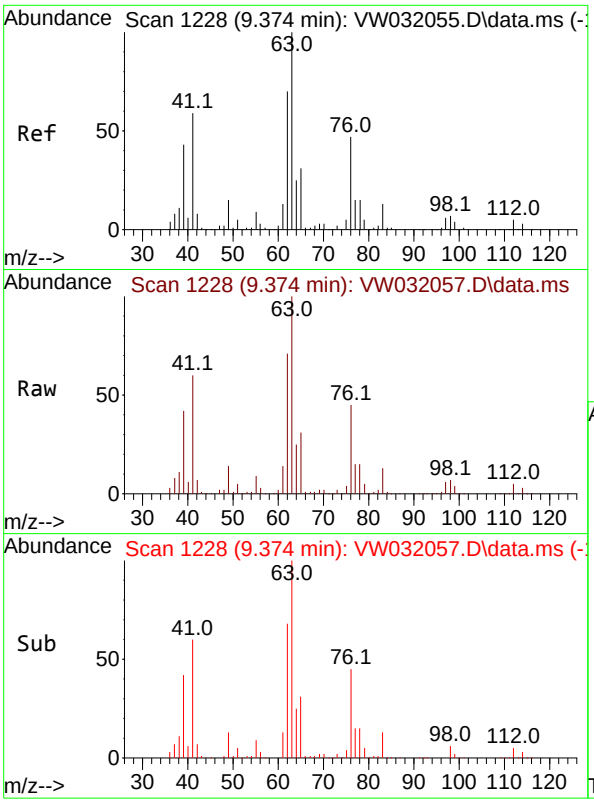


#44
Trichloroethene
Concen: 149.281 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:130 Resp: 424873

Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	200.6



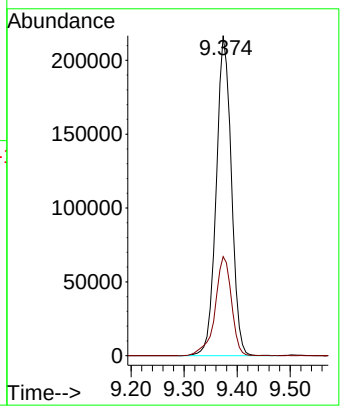


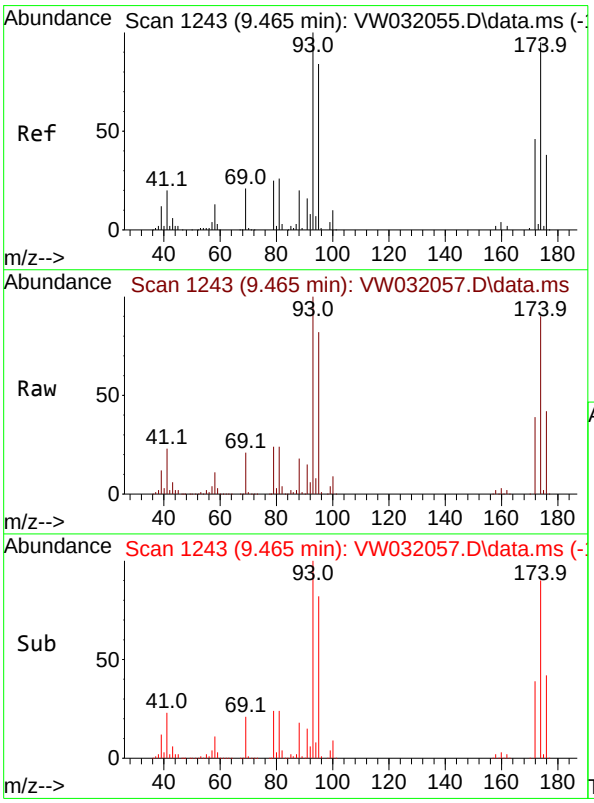
#45
1,2-Dichloropropane
Concen: 148.679 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 429280

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	36.8

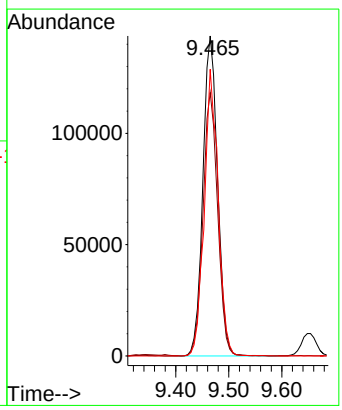


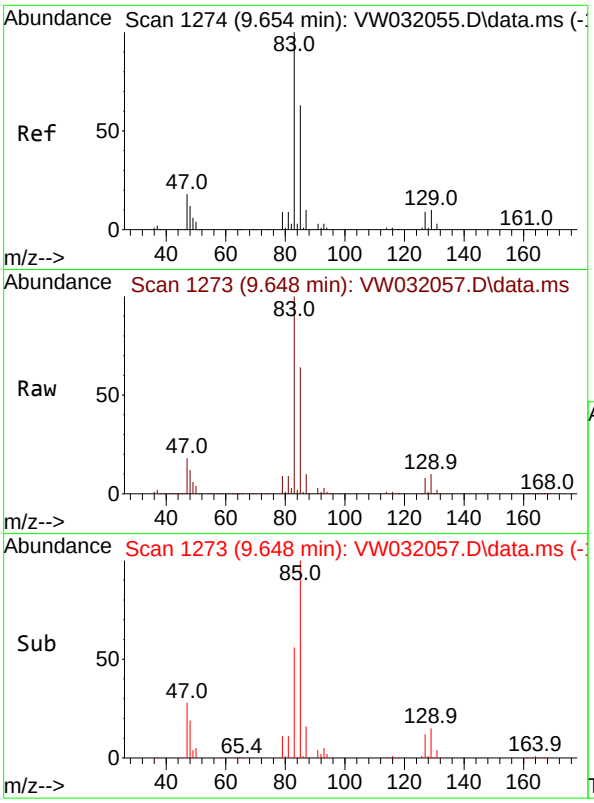


#46
Dibromomethane
Concen: 148.678 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 93 Resp: 277058

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.3	97.9
174	84.7	68.6	102.8



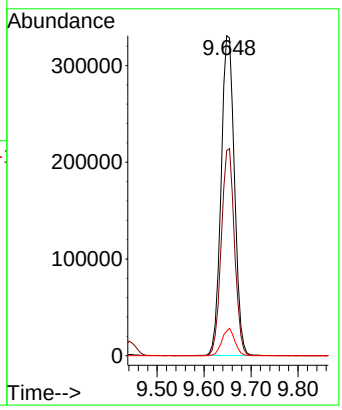


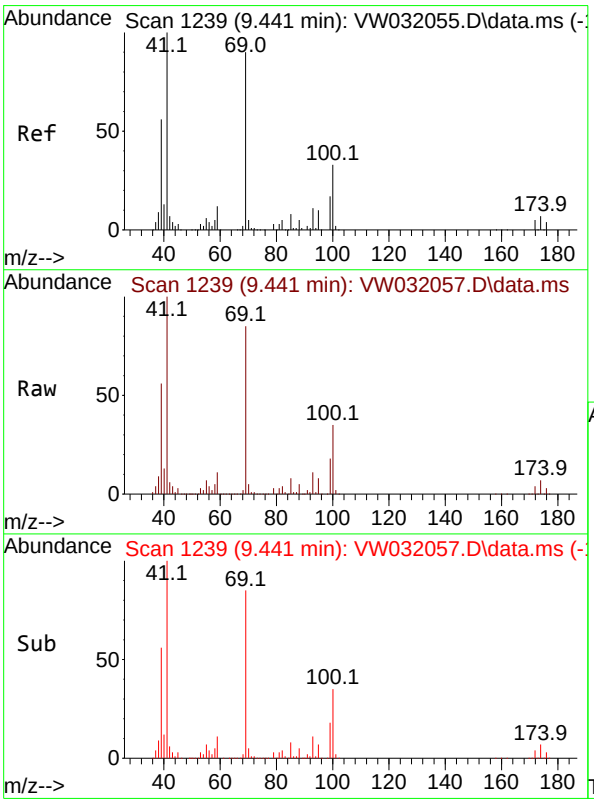
#47
Bromodichloromethane
Concen: 152.185 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 653476

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	75.8
127	7.7	6.9	10.3

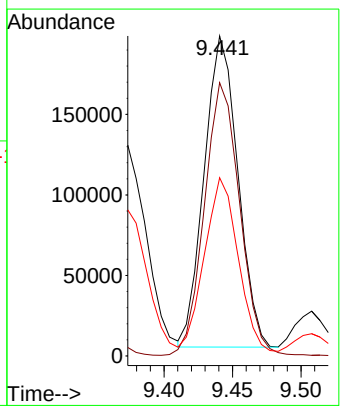


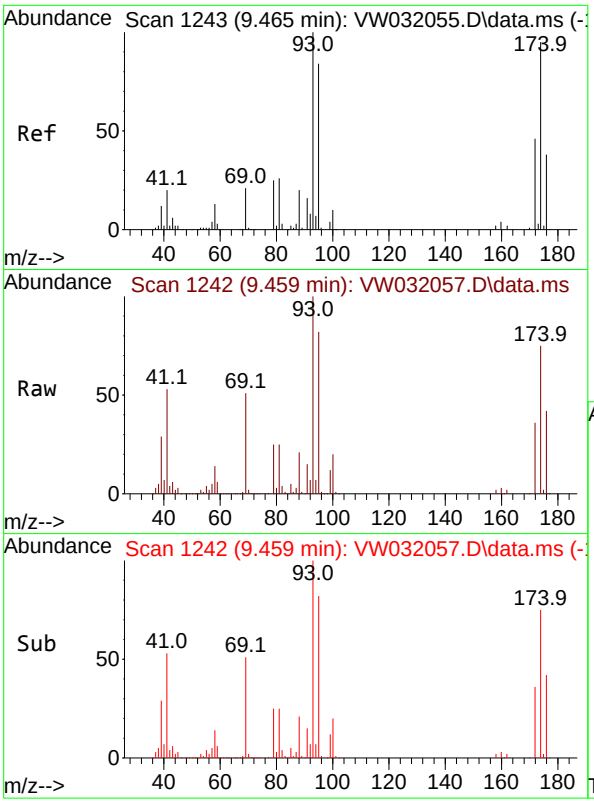


#48
Methyl methacrylate
Concen: 164.326 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 330511

Ion	Ratio	Lower	Upper
41	100		
69	92.4	73.0	109.6
39	55.2	45.0	67.4



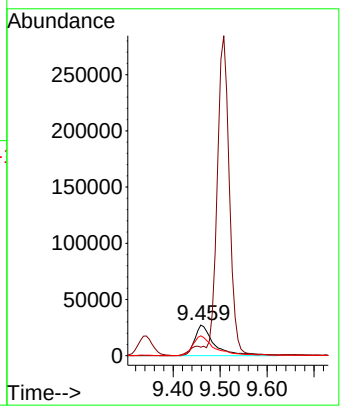


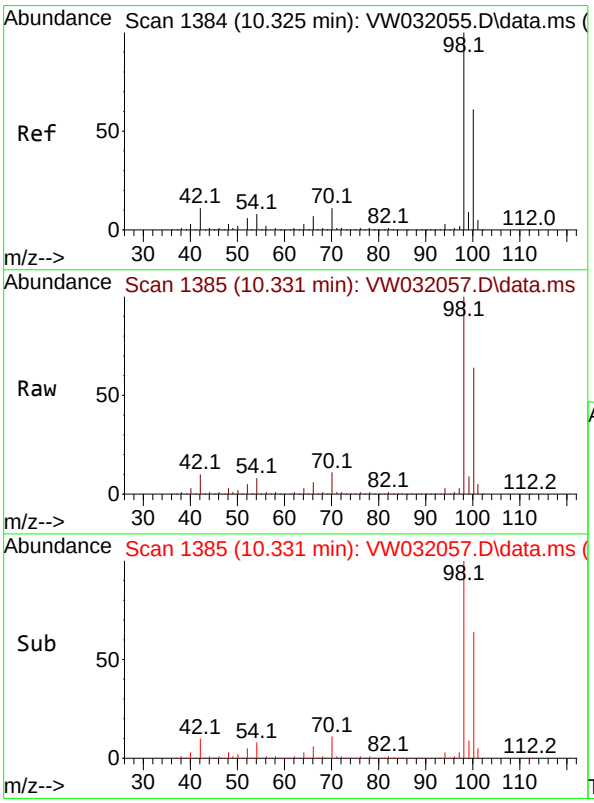
#49
1,4-Dioxane
Concen: 3279.484 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 79016

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	70.8	60.4	90.6

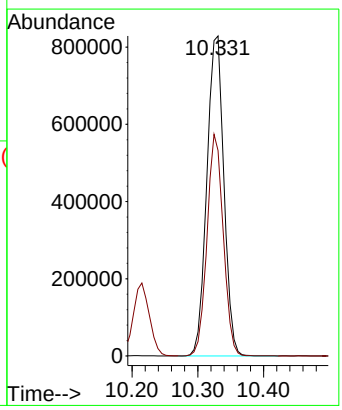


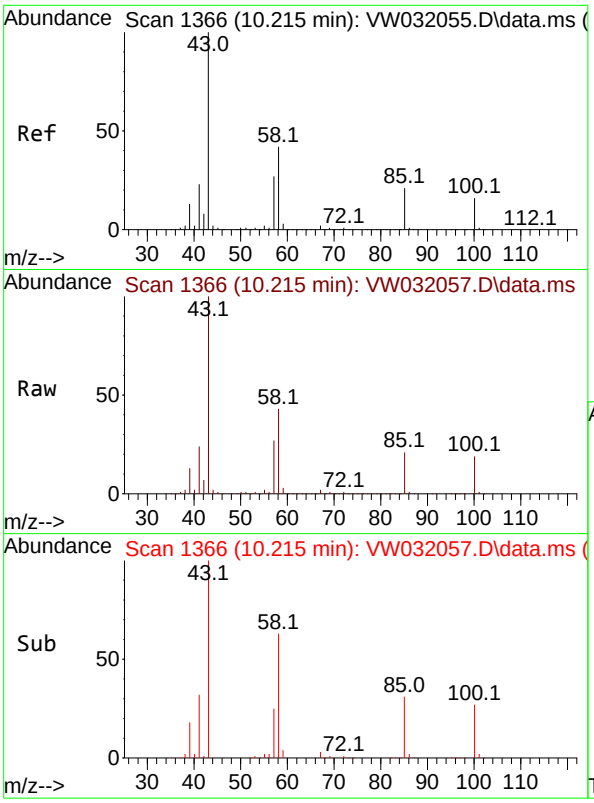


#50
Toluene-d8
Concen: 147.908 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 98 Resp: 1492050

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.1	76.7



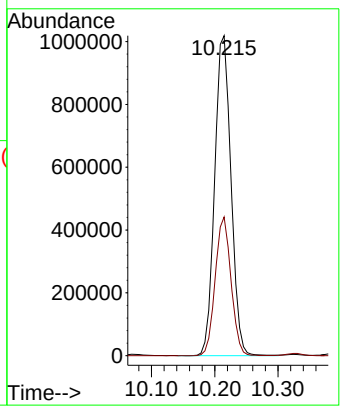


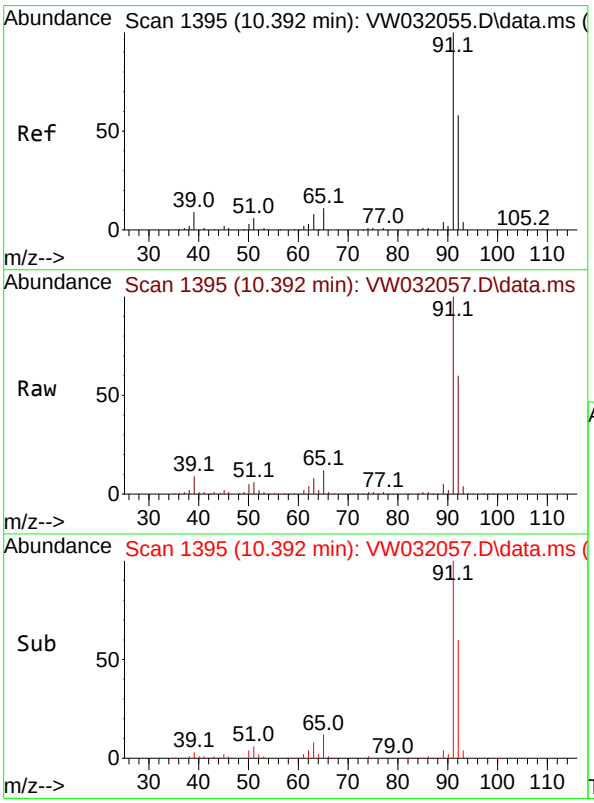
#51
4-Methyl-2-Pentanone
Concen: 772.800 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1817273

Ion	Ratio	Lower	Upper
43	100		
58	42.0	33.1	49.7

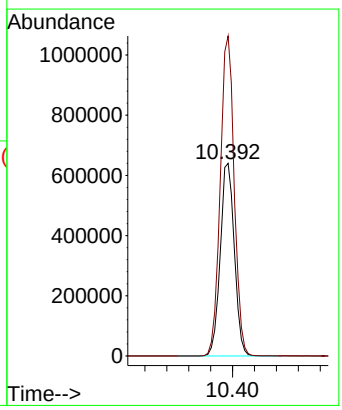


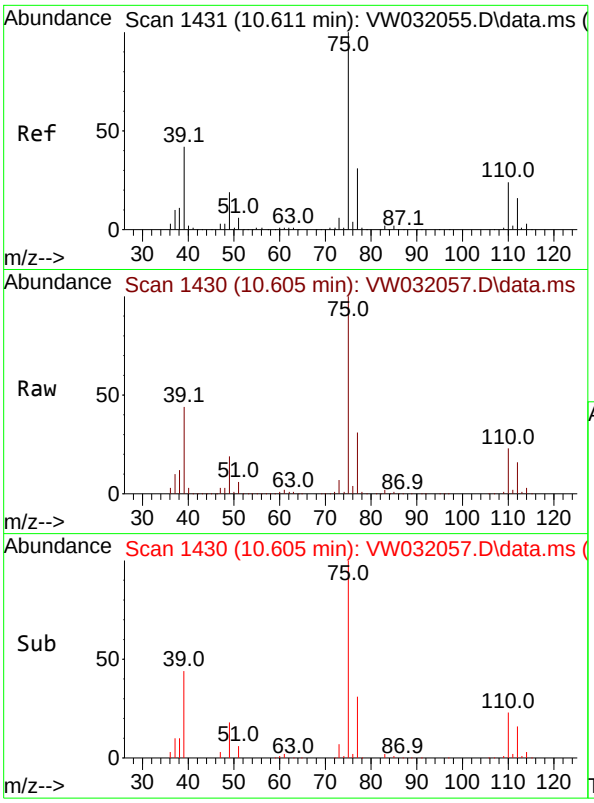


#52
Toluene
Concen: 151.812 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 92 Resp: 1142813

Ion	Ratio	Lower	Upper
92	100		
91	164.7	136.3	204.5



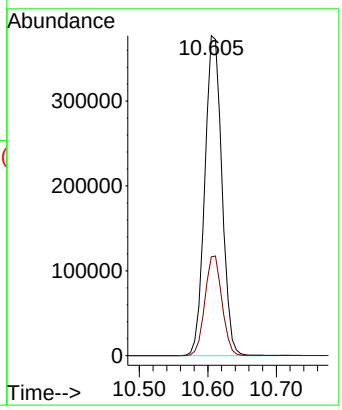


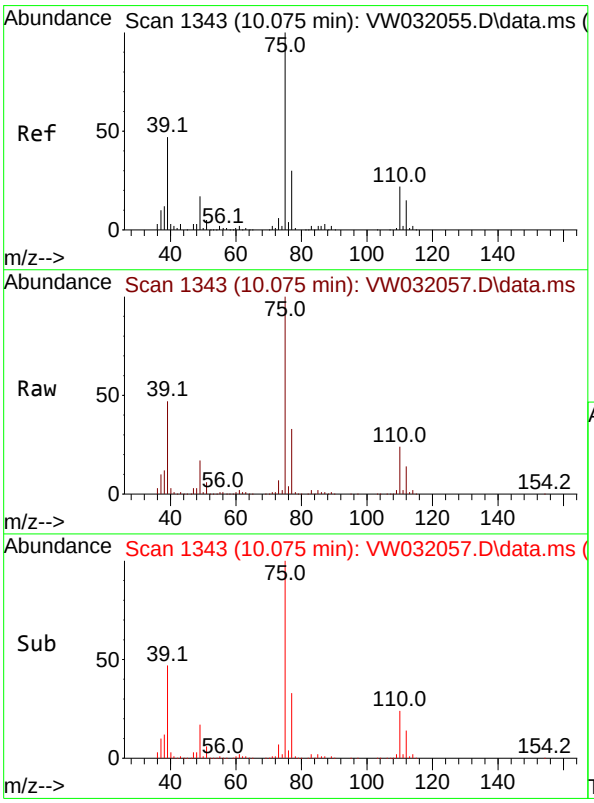
#53
t-1,3-Dichloropropene
Concen: 162.760 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 654765

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6

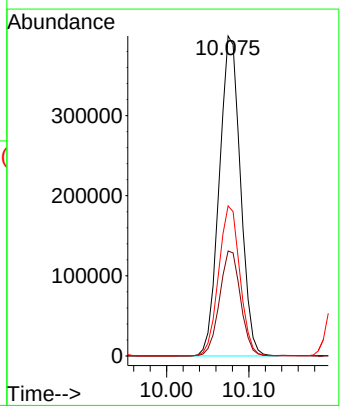


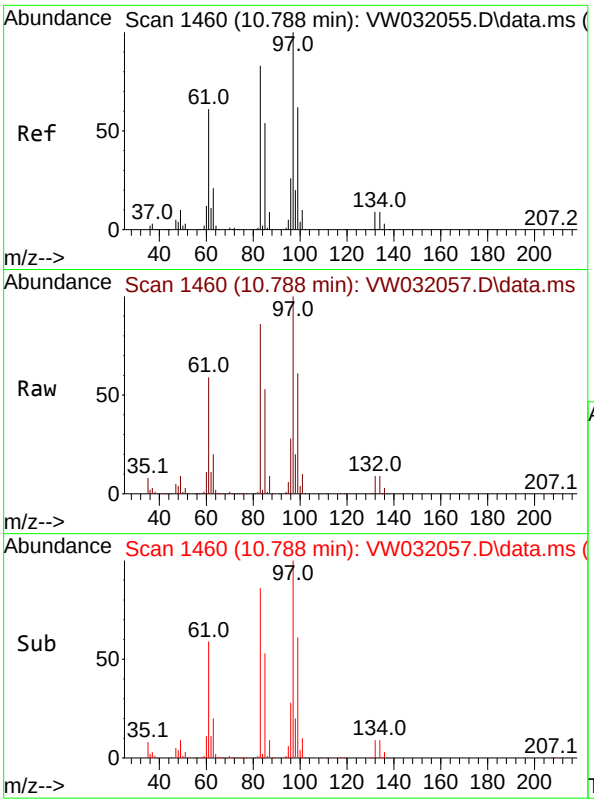


#54
cis-1,3-Dichloropropene
Concen: 157.011 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 716583

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.0	36.0
39	46.9	37.8	56.8



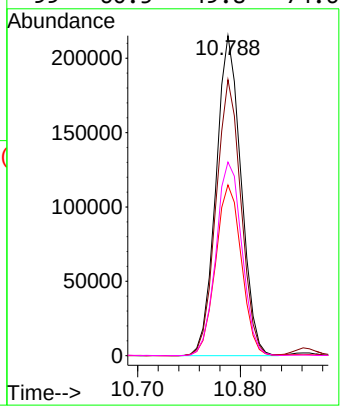


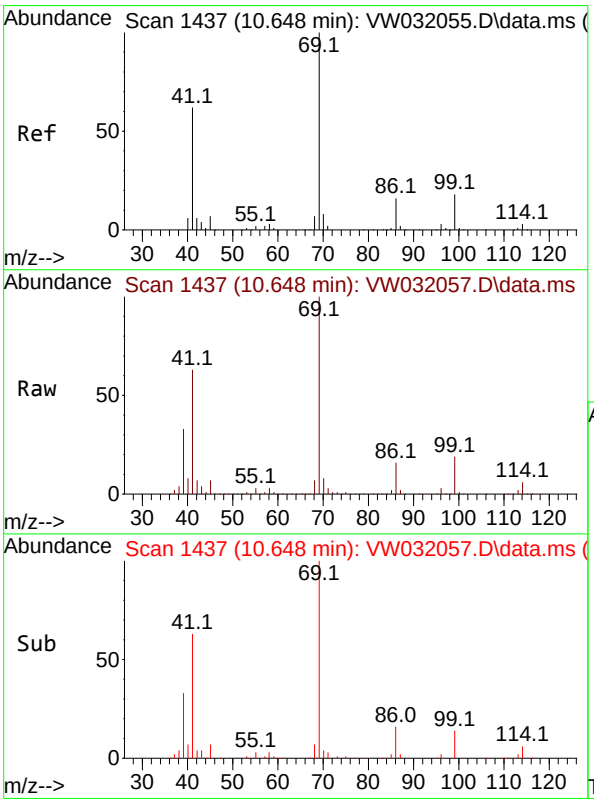
#55
1,1,2-Trichloroethane
Concen: 147.271 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 364680

Ion	Ratio	Lower	Upper
97	100		
83	86.3	66.4	99.6
85	53.3	43.1	64.7
99	60.5	49.8	74.6

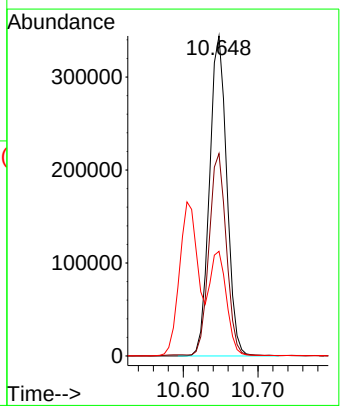


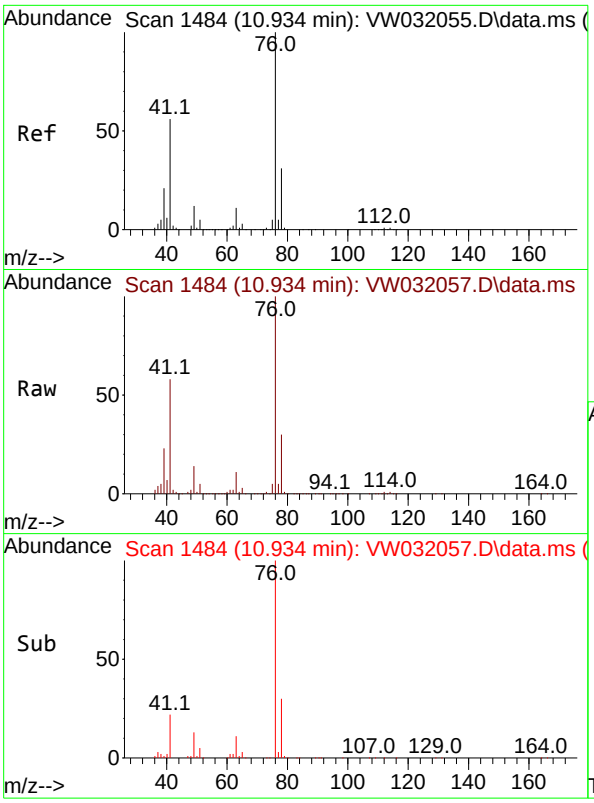


#56
Ethyl methacrylate
Concen: 166.963 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 69 Resp: 553265

Ion	Ratio	Lower	Upper
69	100		
41	62.9	51.2	76.8
39	30.8	25.4	38.0



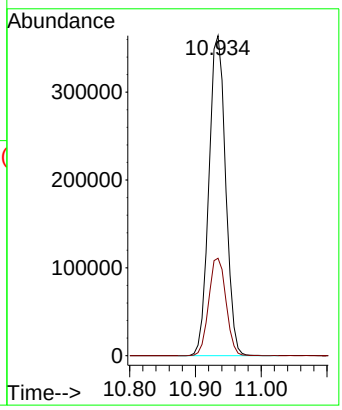


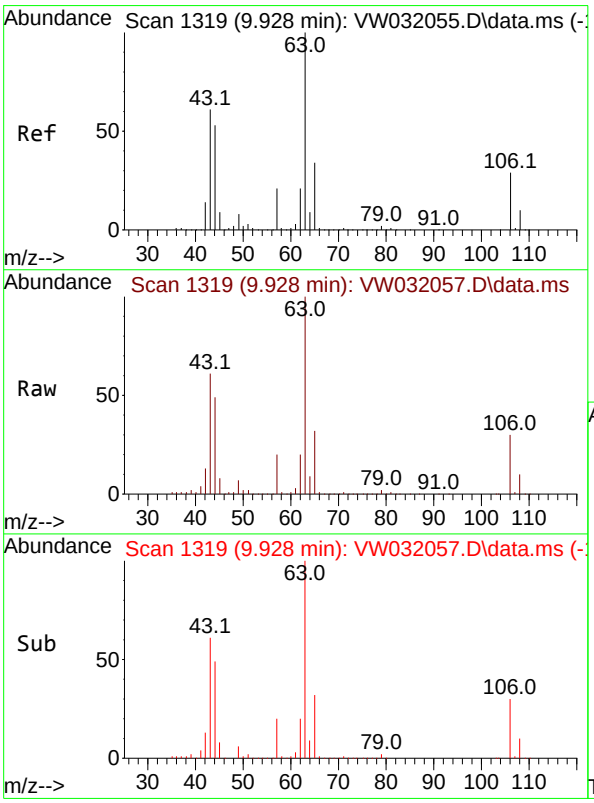
#57
1,3-Dichloropropane
Concen: 149.298 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 644418

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.8	38.6

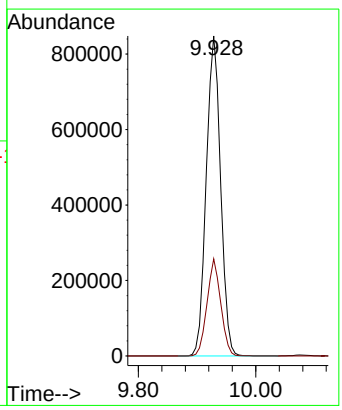


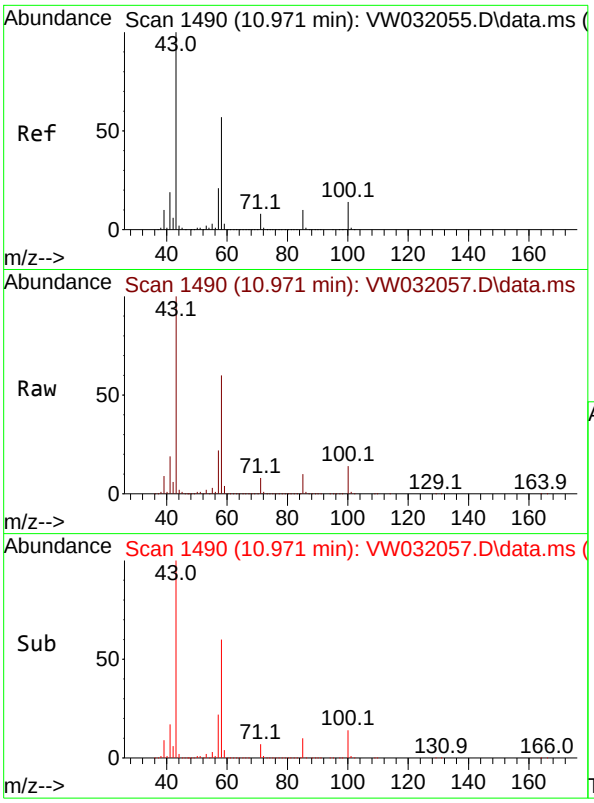


#58
2-Chloroethyl Vinyl ether
Concen: 784.377 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 1437682

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3



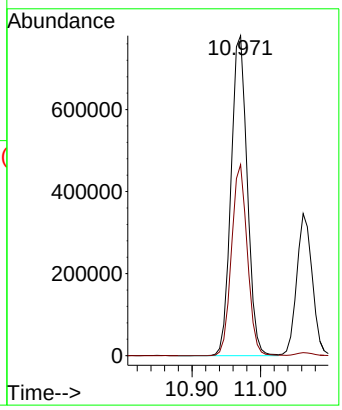


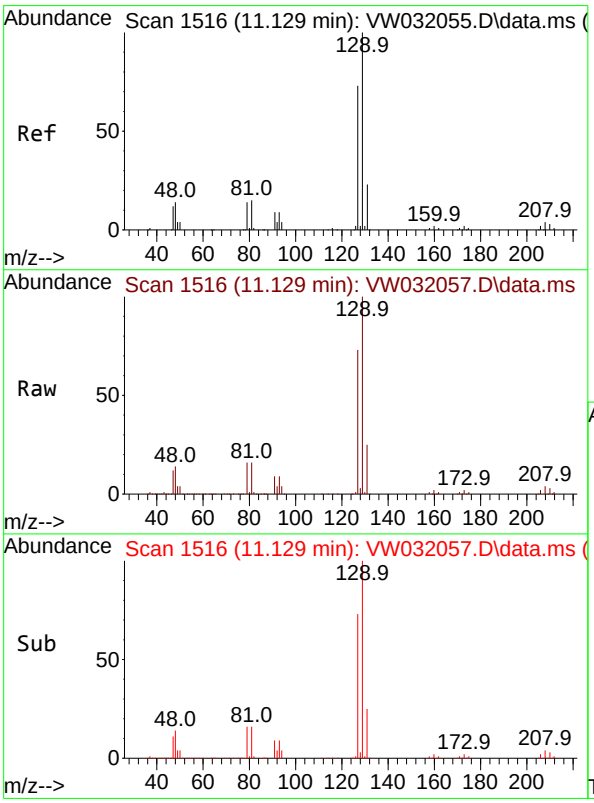
#59
2-Hexanone
Concen: 785.288 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1278917

Ion	Ratio	Lower	Upper
43	100		
58	58.3	28.3	85.0

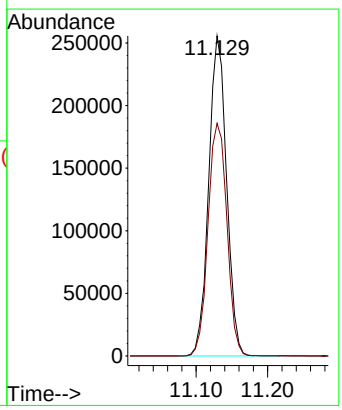


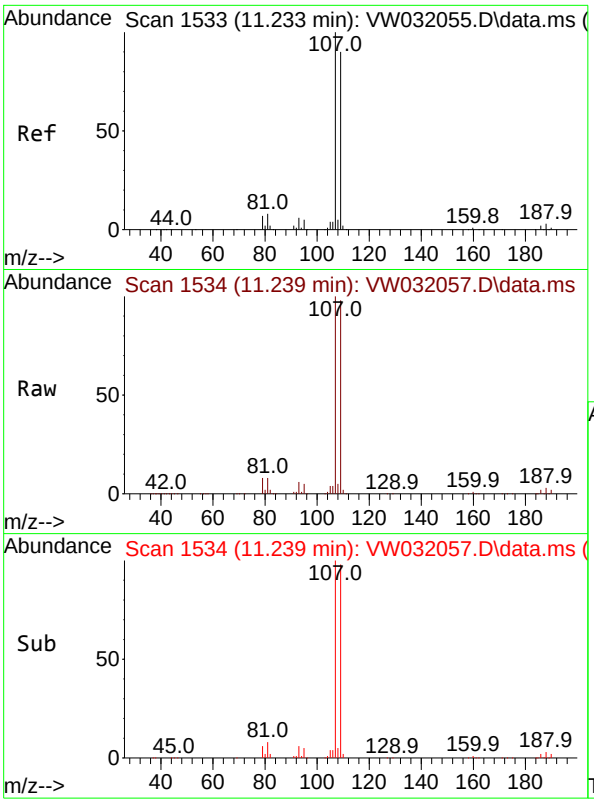


#60
Dibromochloromethane
Concen: 156.387 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:129 Resp: 442362

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.0	116.9



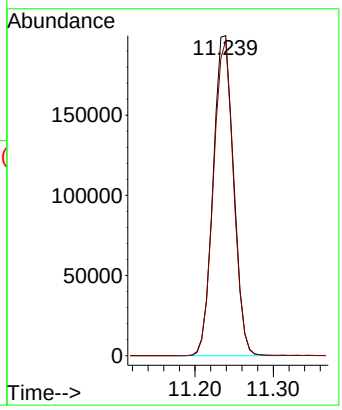


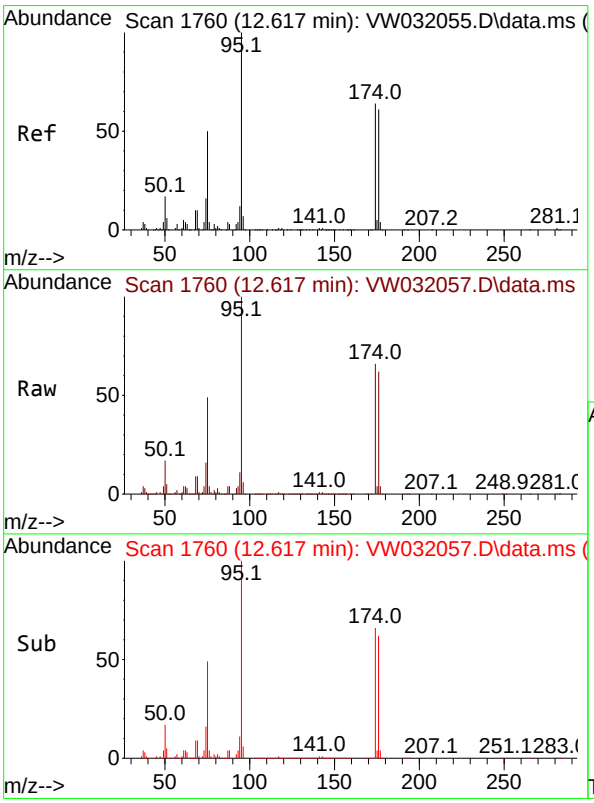
#61
1,2-Dibromoethane
Concen: 150.929 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 363192

Ion	Ratio	Lower	Upper
107	100		
109	96.5	74.2	111.4

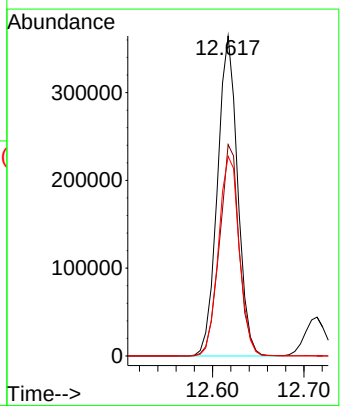


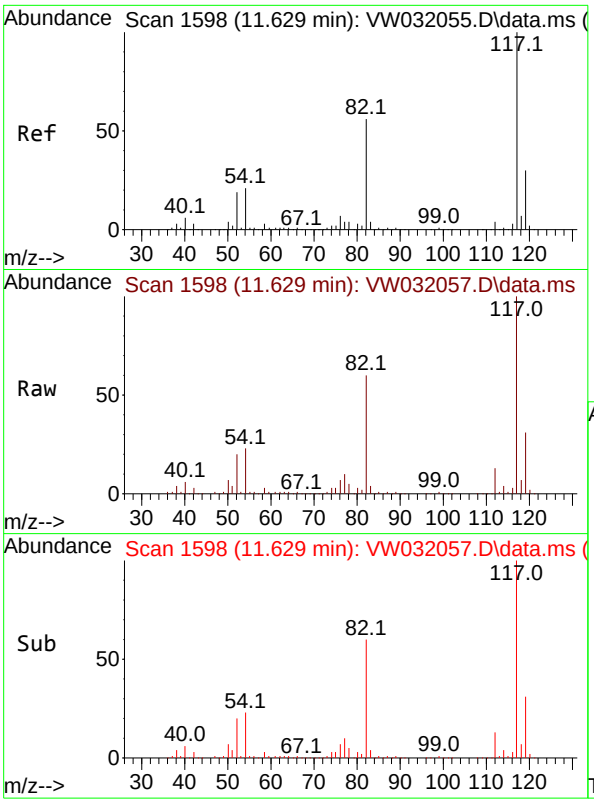


#62
4-Bromofluorobenzene
Concen: 150.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 95 Resp: 558308

Ion	Ratio	Lower	Upper
95	100		
174	64.8	0.0	129.0
176	64.5	0.0	124.6



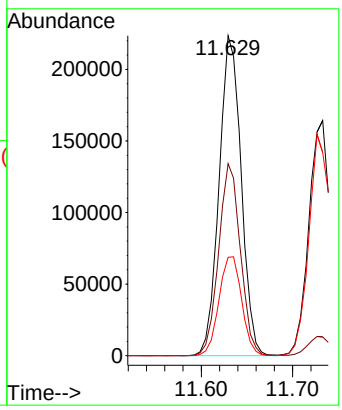


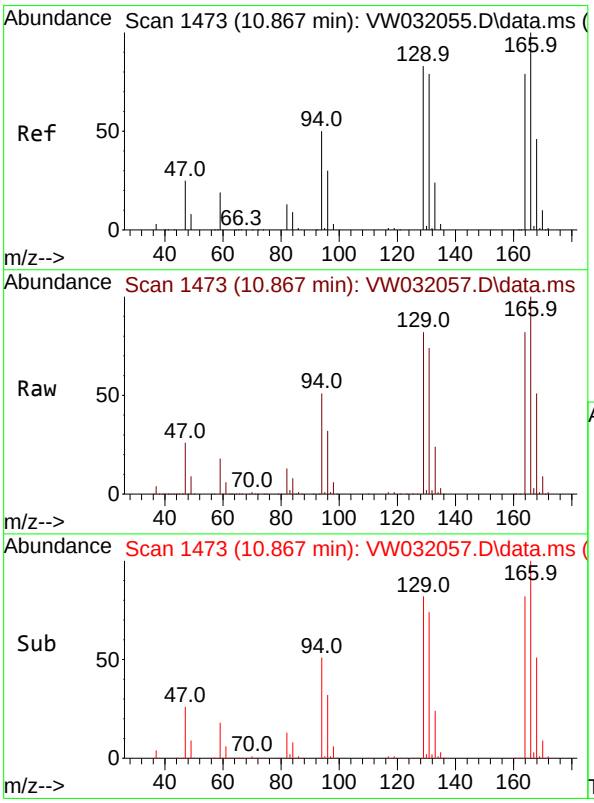
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 375277

Ion	Ratio	Lower	Upper
117	100		
82	59.9	45.0	67.4
119	30.8	24.2	36.4

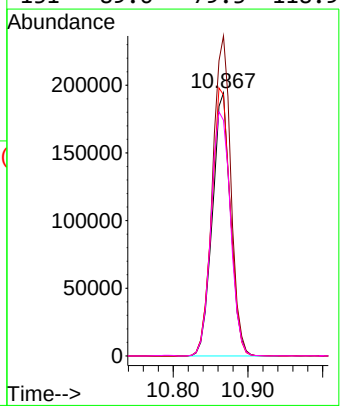


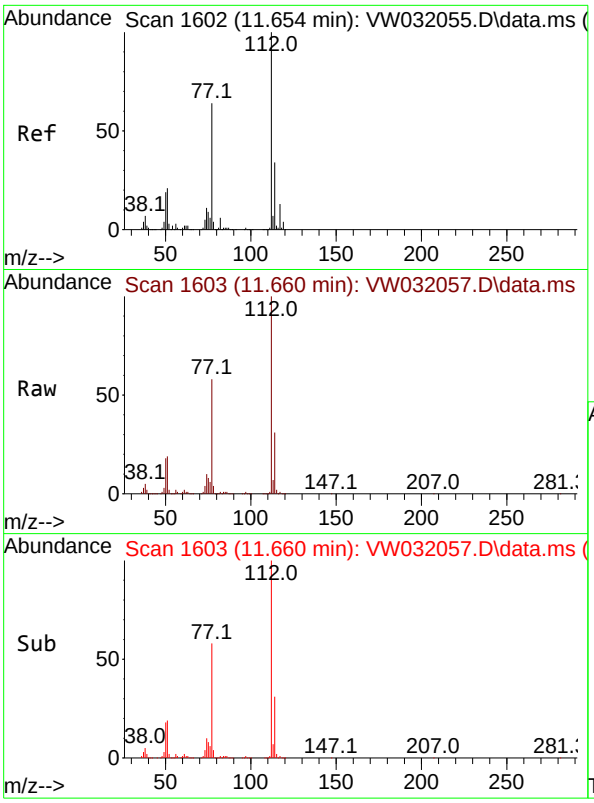


#64
Tetrachloroethene
Concen: 150.622 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:164 Resp: 326491

Ion	Ratio	Lower	Upper
164	100		
166	121.6	100.9	151.3
129	99.3	83.6	125.4
131	89.6	79.3	118.9



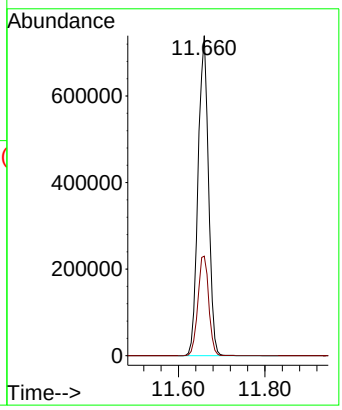


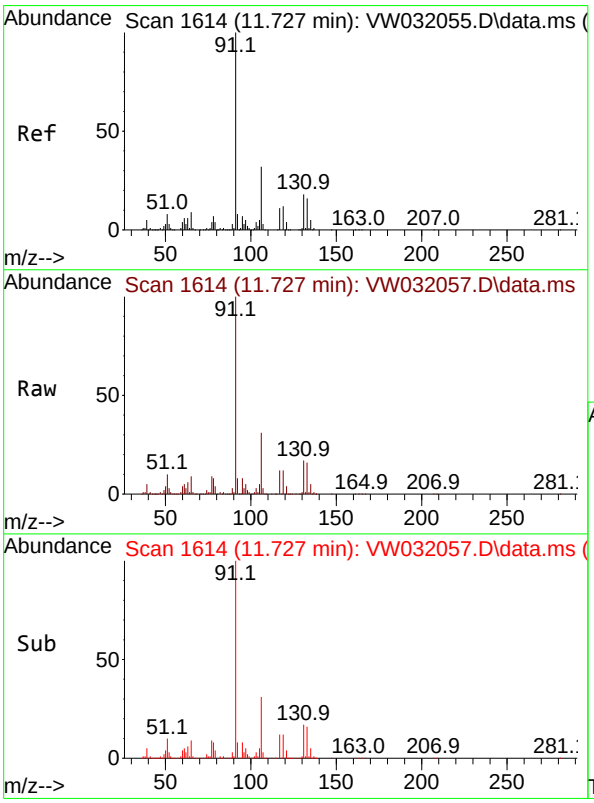
#65
Chlorobenzene
Concen: 150.609 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 1230240

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.9	40.3

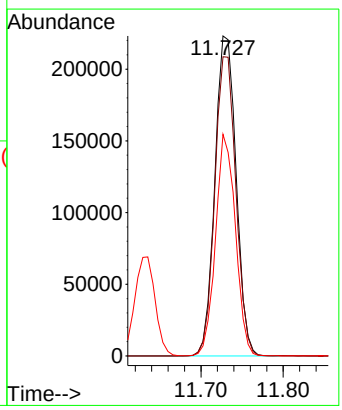


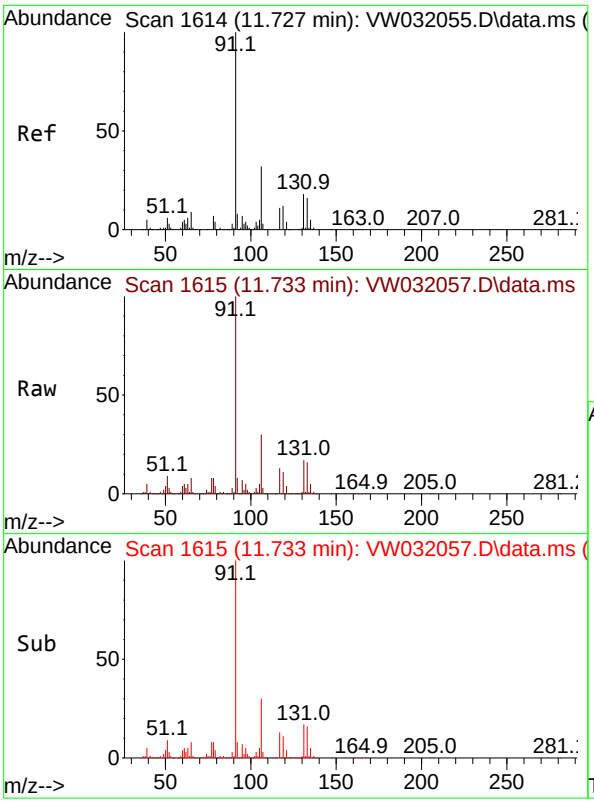


#66
1,1,1,2-Tetrachloroethane
Concen: 157.017 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:131 Resp: 400167

Ion	Ratio	Lower	Upper
131	100		
133	93.2	47.3	142.0
119	65.0	34.5	103.5



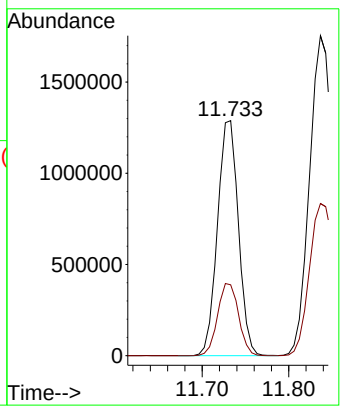


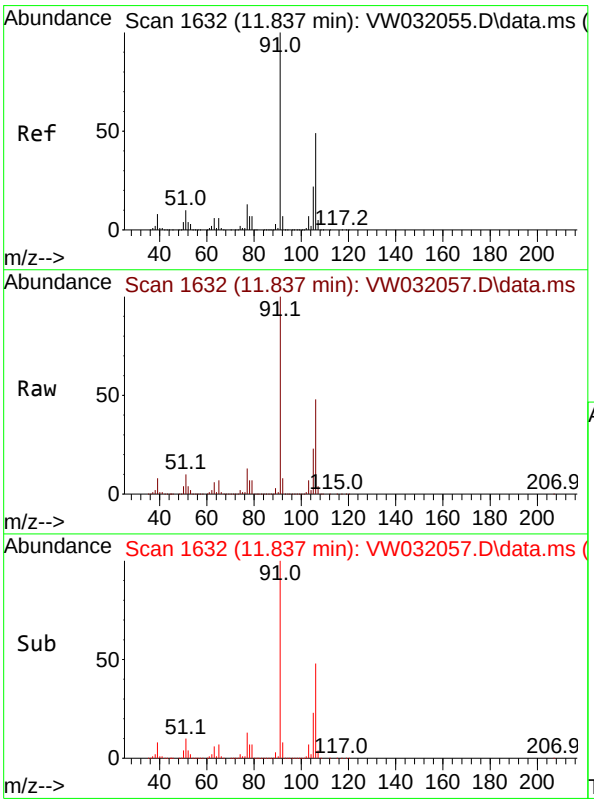
#67
Ethyl Benzene
Concen: 156.328 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2162983

Ion	Ratio	Lower	Upper
91	100		
106	30.1	25.4	38.0

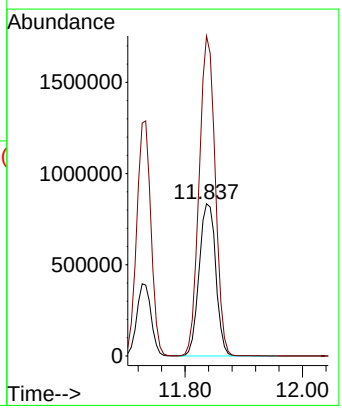


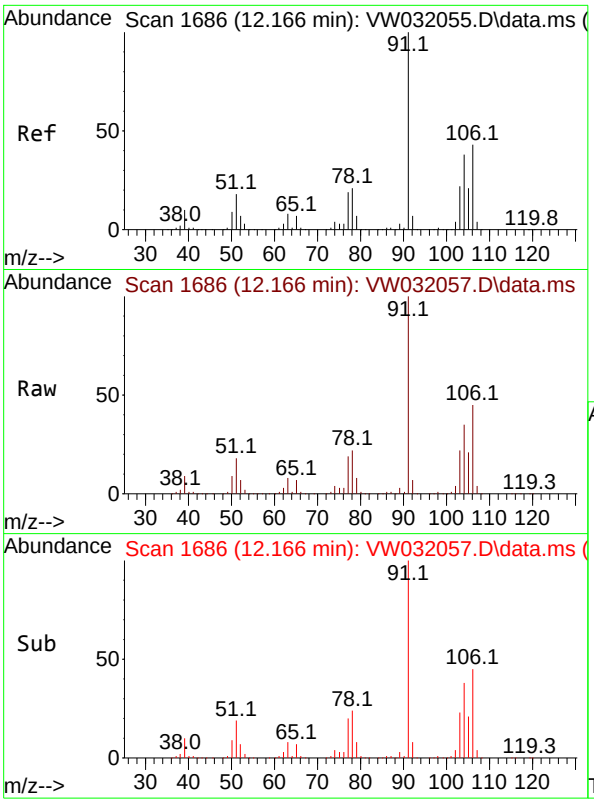


#68
m/p-Xylenes
Concen: 307.801 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 1643338

Ion	Ratio	Lower	Upper
106	100		
91	203.0	162.2	243.2



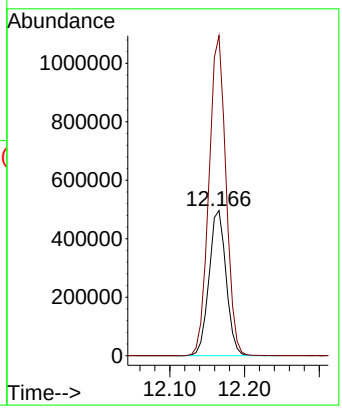


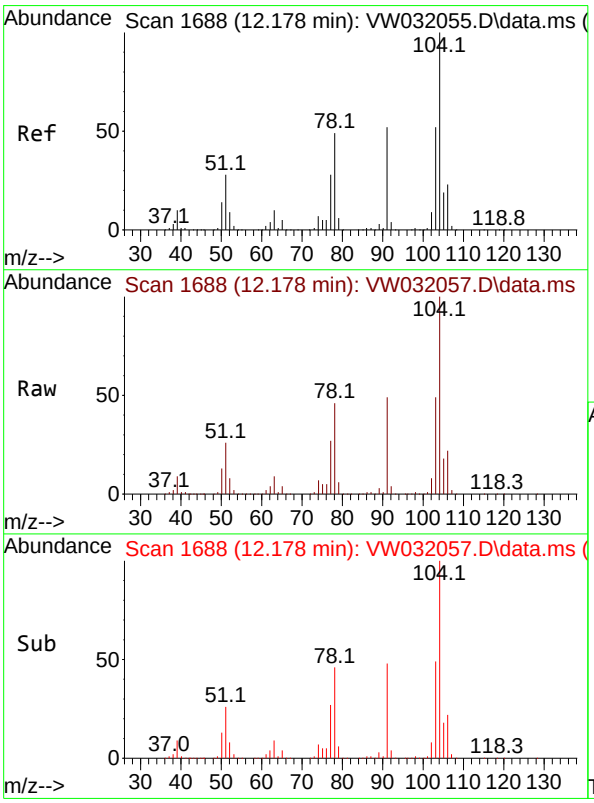
#69
o-Xylene
Concen: 159.450 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 786831

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.8	332.3

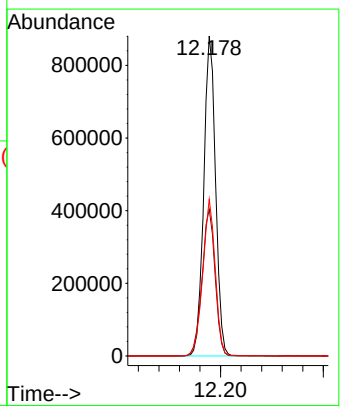


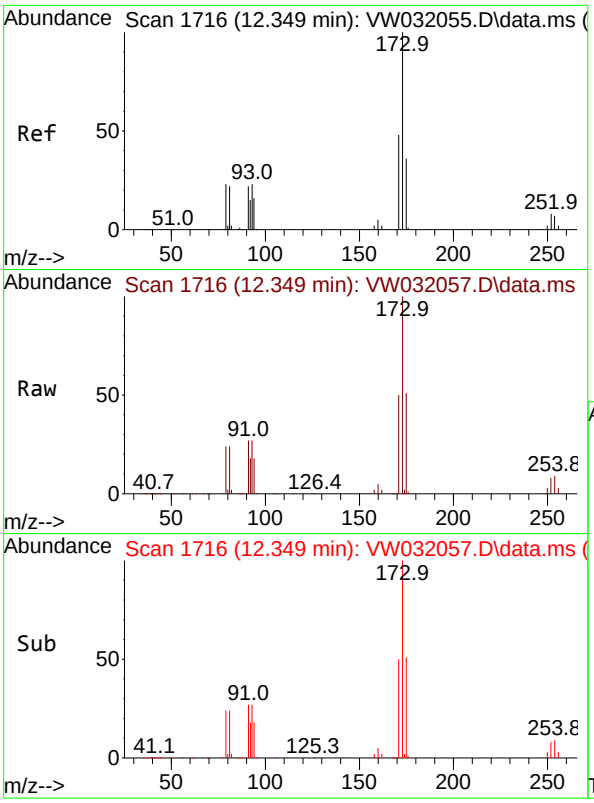


#70
Styrene
Concen: 160.482 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:104 Resp: 1406640

Ion	Ratio	Lower	Upper
104	100		
78	50.4	41.2	61.8
103	51.7	43.8	65.8



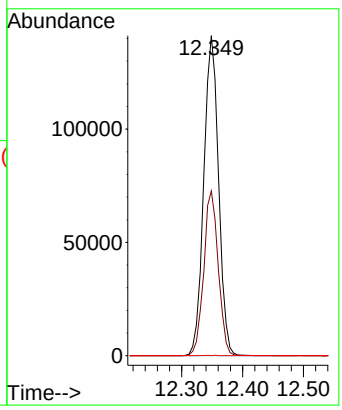


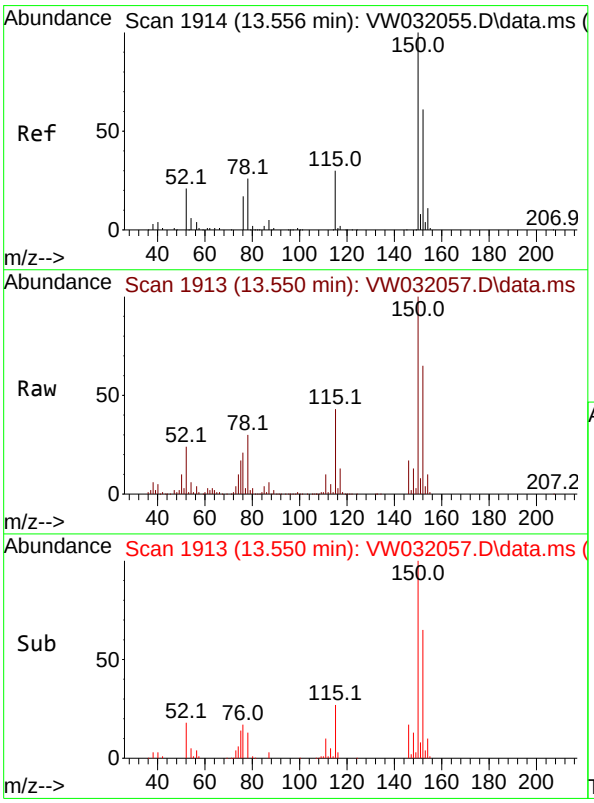
#71
Bromoform
Concen: 163.720 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 238675

Ion	Ratio	Lower	Upper
173	100		
175	50.4	22.9	68.7
254	0.1	0.0	0.0#

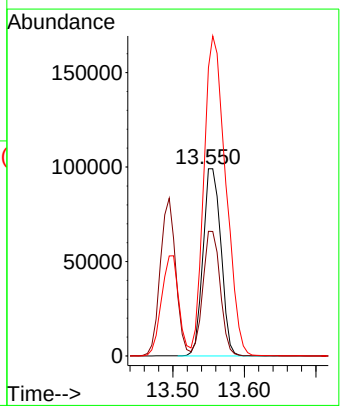


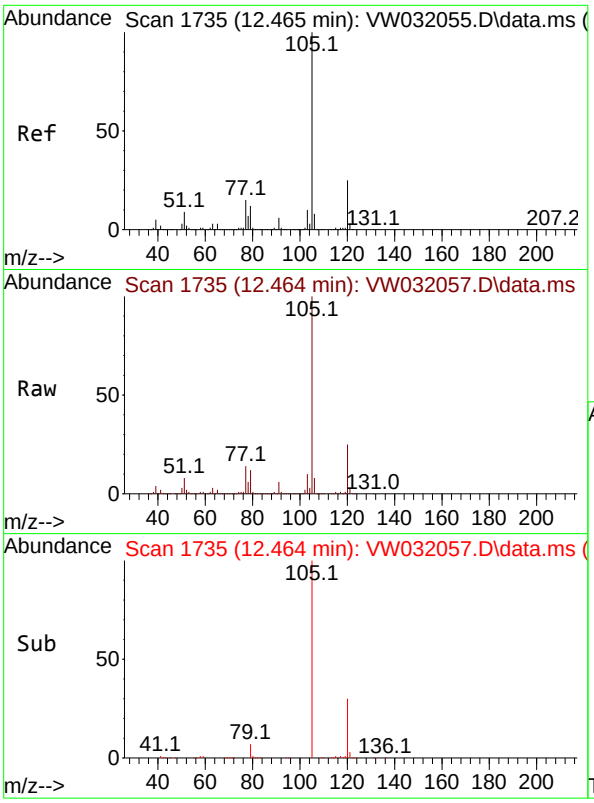


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:152 Resp: 172321

Ion	Ratio	Lower	Upper
152	100		
115	64.2	32.6	97.8
150	208.3	0.0	359.4



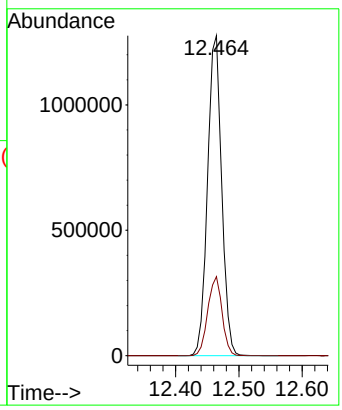


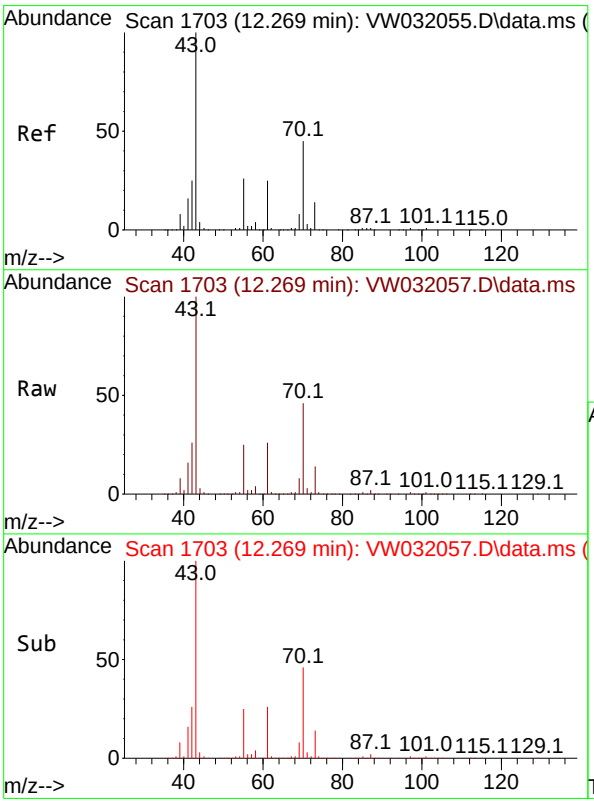
#73
Isopropylbenzene
Concen: 164.188 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1977280

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

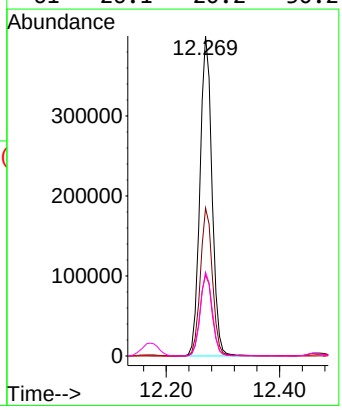


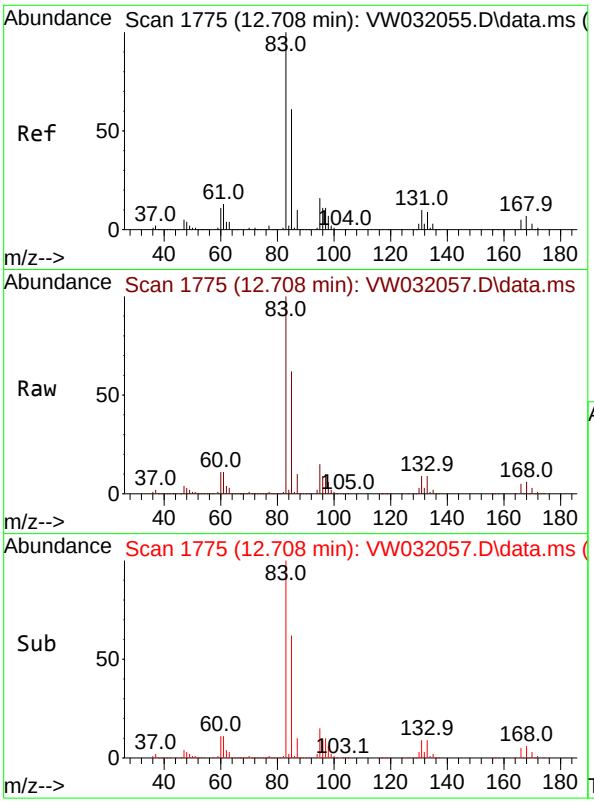


#74
N-amyl acetate
Concen: 170.556 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 589285

Ion	Ratio	Lower	Upper
43	100		
70	46.3	37.0	55.4
55	25.7	21.1	31.7
61	26.1	20.2	30.2



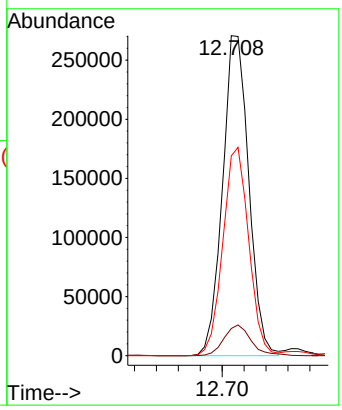


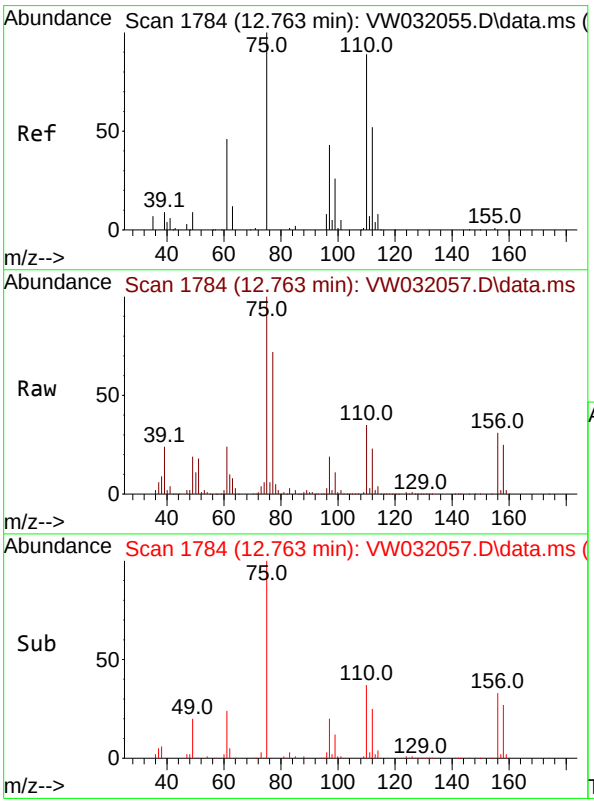
#75
1,1,2,2-Tetrachloroethane
Concen: 157.276 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 449708

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.1	32.2	96.6

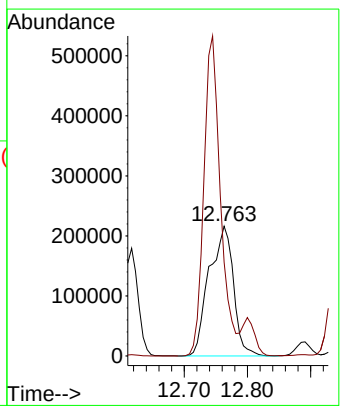


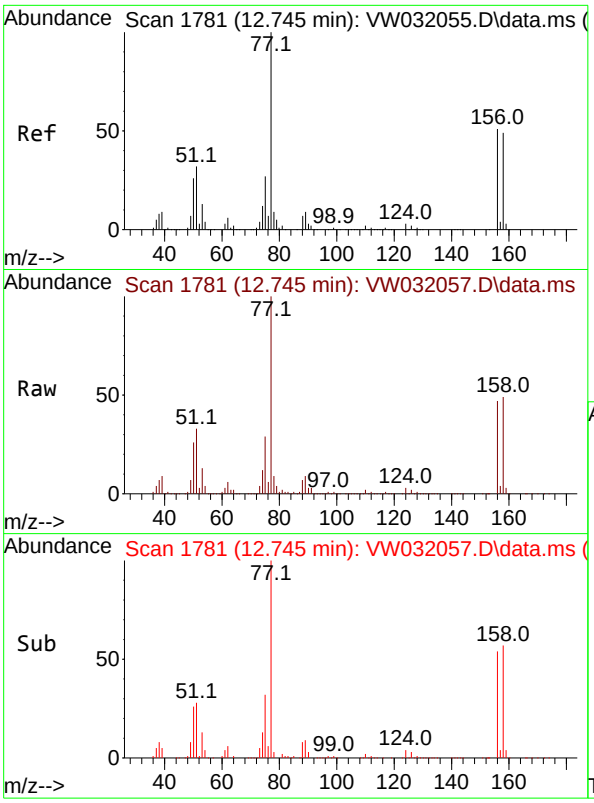


#76
1,2,3-Trichloropropane
Concen: 217.539 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 576261

Ion	Ratio	Lower	Upper
75	100		
77	168.6	123.5	370.5



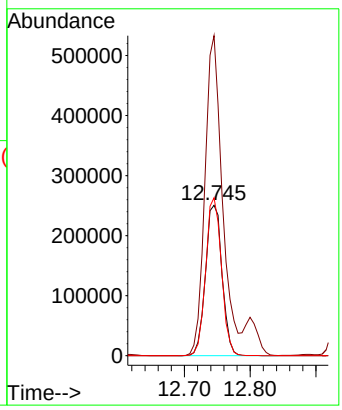


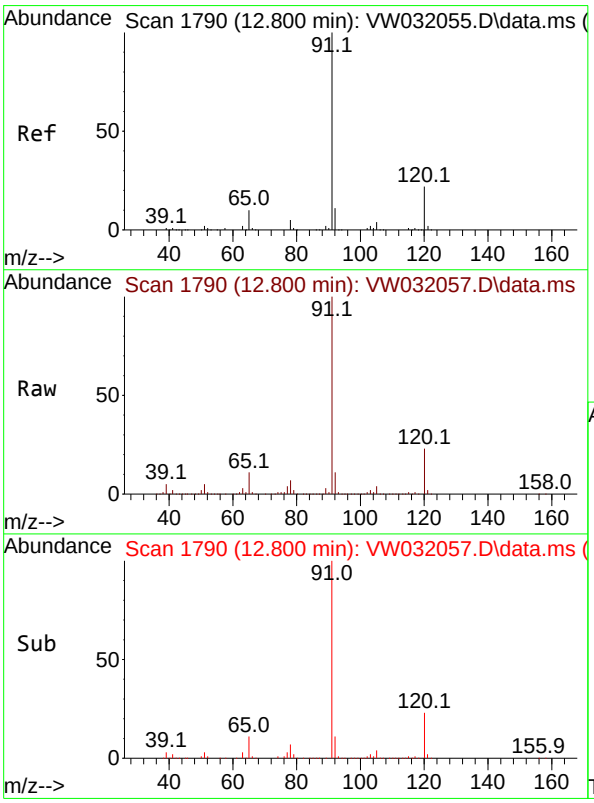
#77
Bromobenzene
Concen: 153.167 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 440559

Ion	Ratio	Lower	Upper
156	100		
77	220.6	108.7	326.3
158	99.9	48.3	144.9

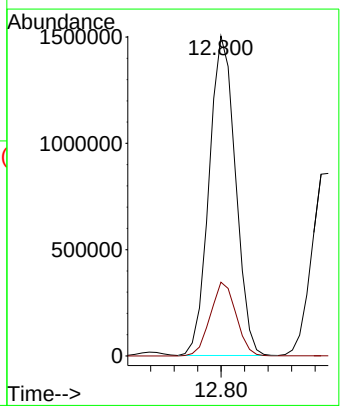


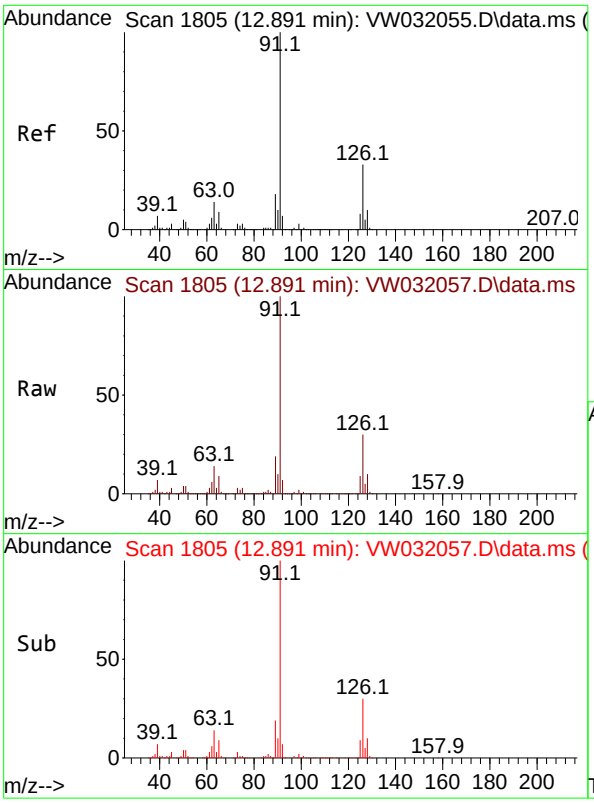


#78
n-propylbenzene
Concen: 158.253 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 2346333

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



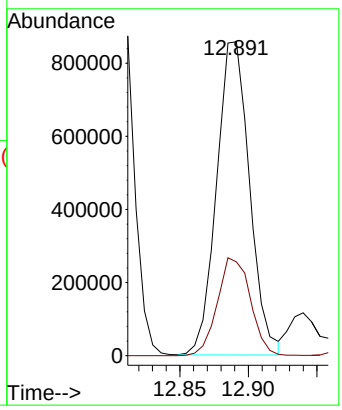


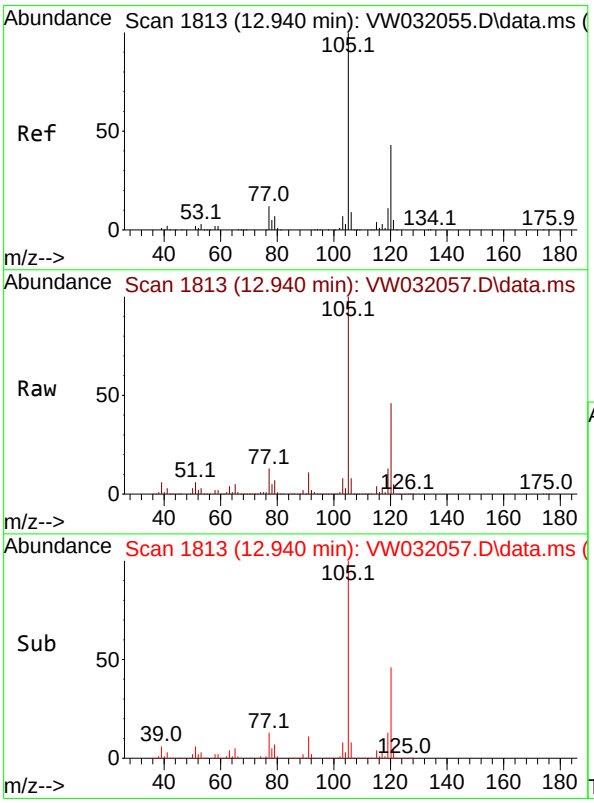
#79
2-Chlorotoluene
Concen: 156.820 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1434986

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.9	47.7

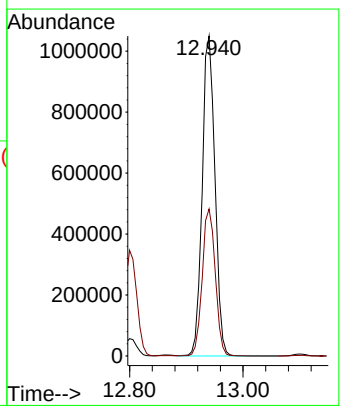


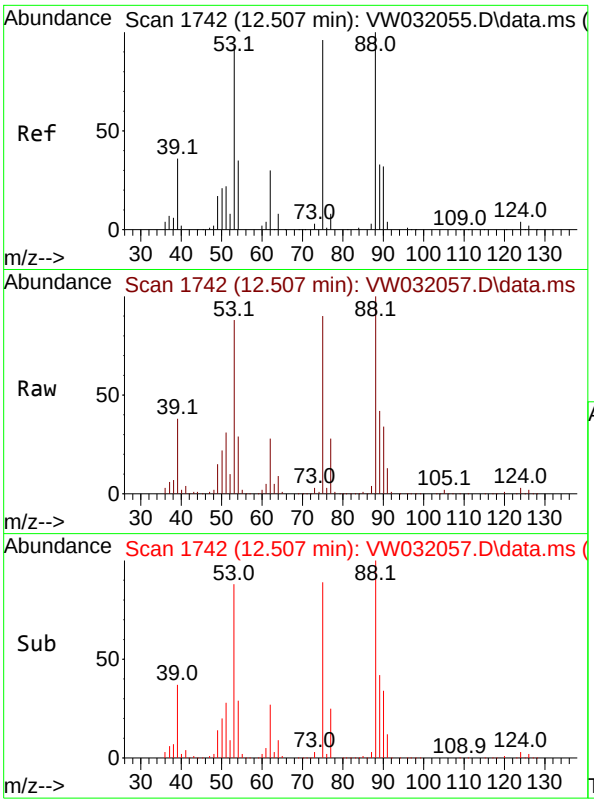


#80
1,3,5-Trimethylbenzene
Concen: 160.368 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1639597

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.4	70.0



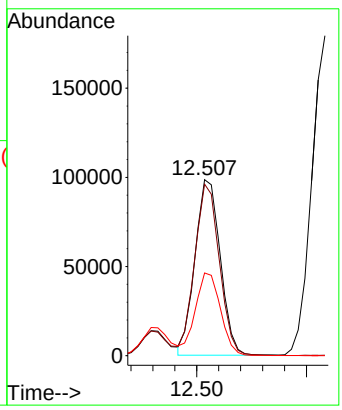


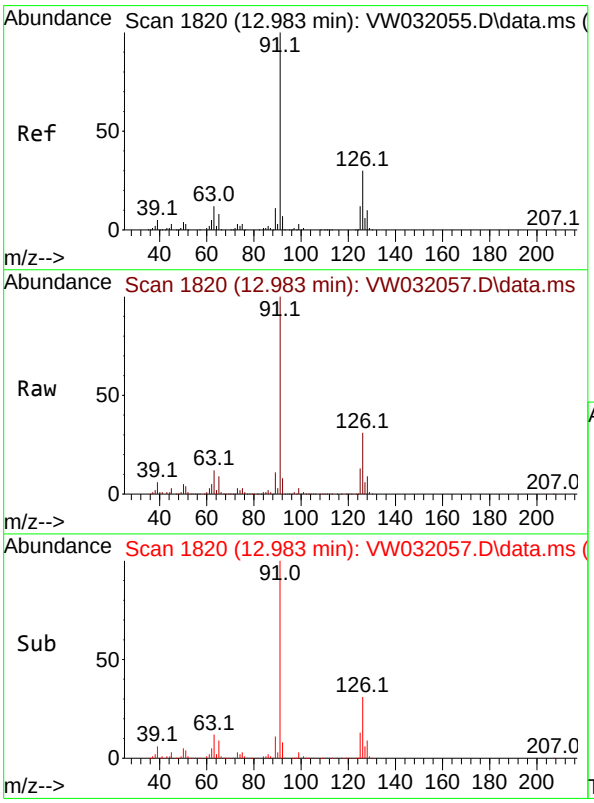
#81
trans-1,4-Dichloro-2-butene
Concen: 174.499 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 157641

Ion	Ratio	Lower	Upper
75	100		
53	95.9	81.0	121.6
89	47.5	37.3	55.9

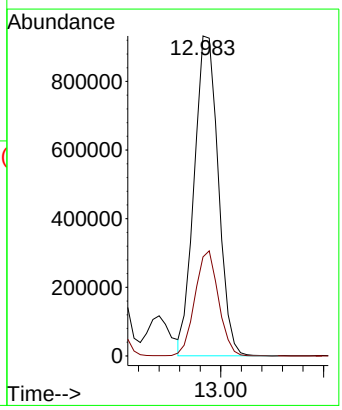


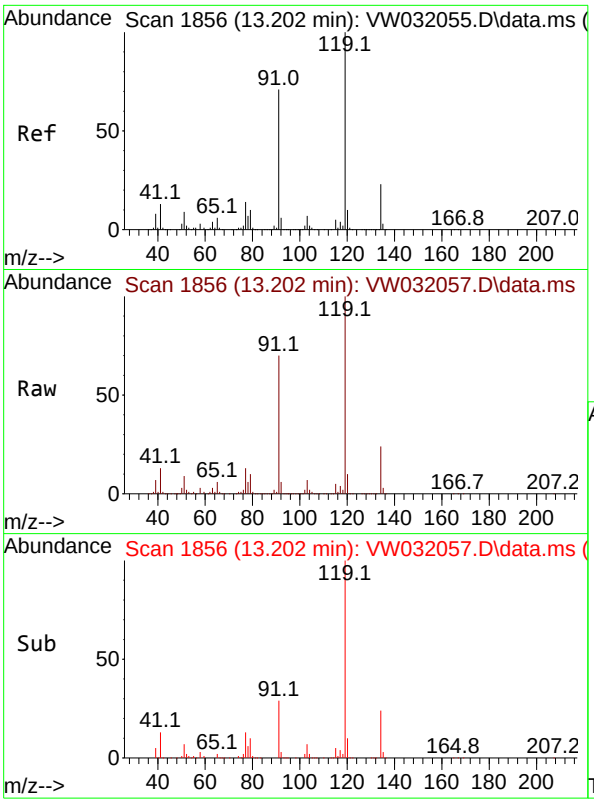


#82
4-Chlorotoluene
Concen: 155.863 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 1515300

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.5	46.5



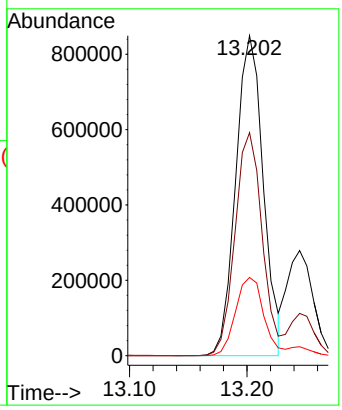


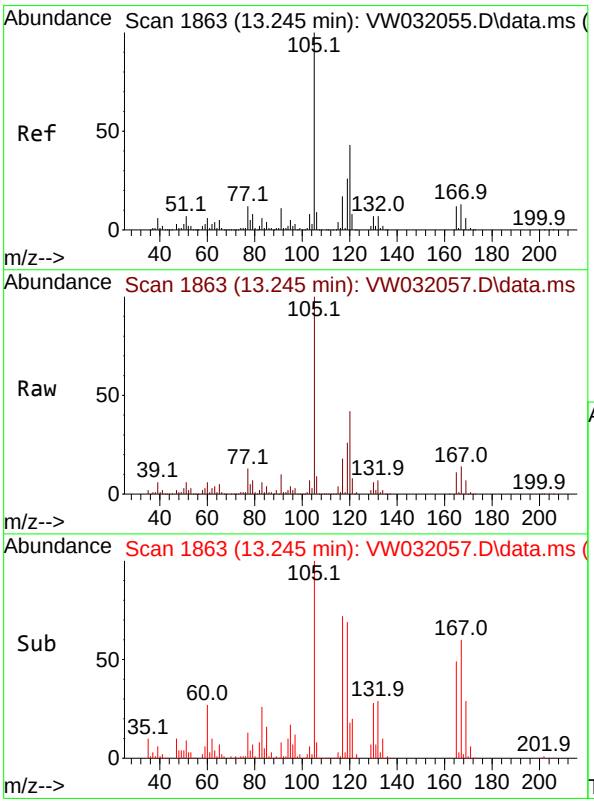
#83
tert-Butylbenzene
Concen: 163.006 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1383127

Ion	Ratio	Lower	Upper
119	100		
91	68.5	35.3	105.9
134	25.2	12.1	36.3

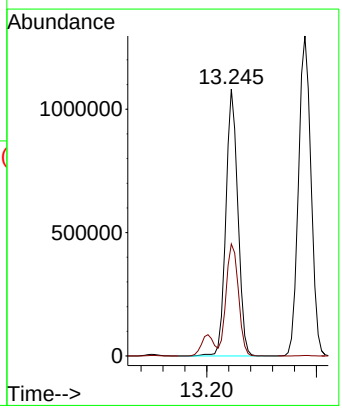


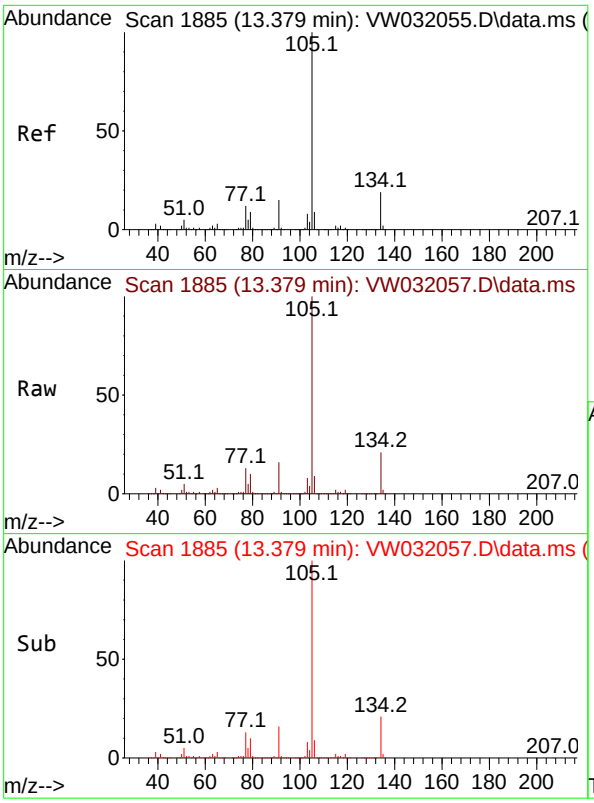


#84
1,2,4-Trimethylbenzene
Concen: 158.189 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1646381

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8



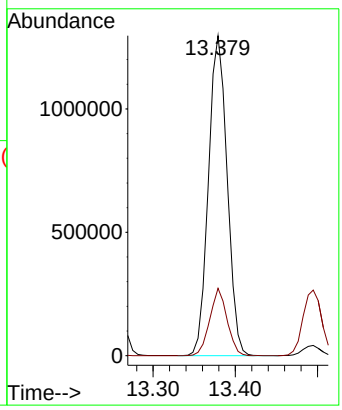


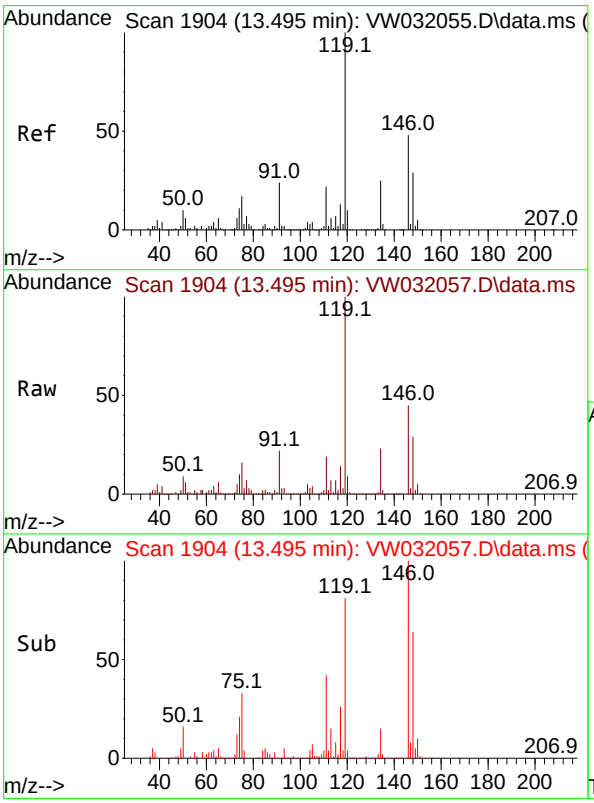
#85
sec-Butylbenzene
Concen: 159.625 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2047763

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7

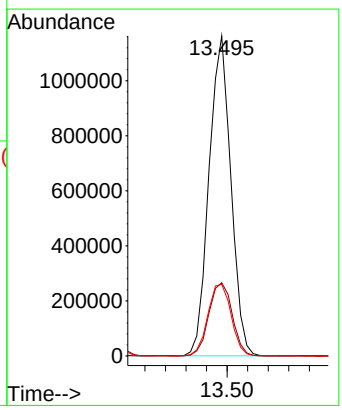


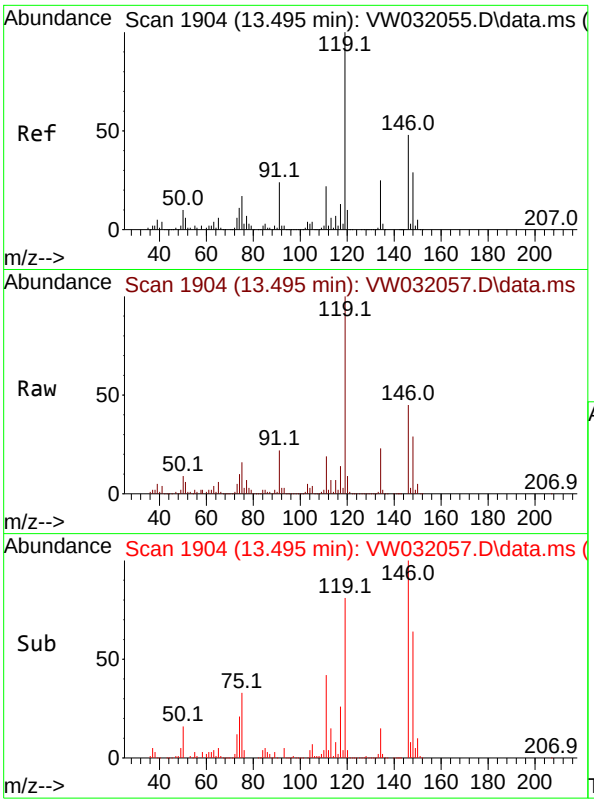


#86
p-Isopropyltoluene
Concen: 160.127 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:119 Resp: 1712519

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.4	37.0
91	24.0	12.1	36.3



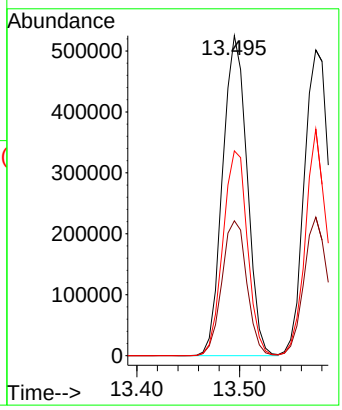


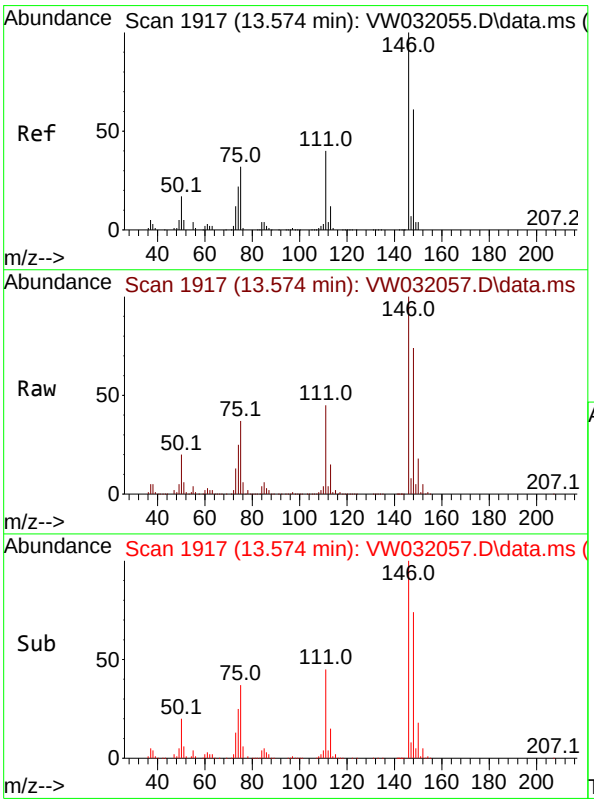
#87
1,3-Dichlorobenzene
Concen: 151.629 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 867827

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.2	63.6
148	64.1	30.3	90.8

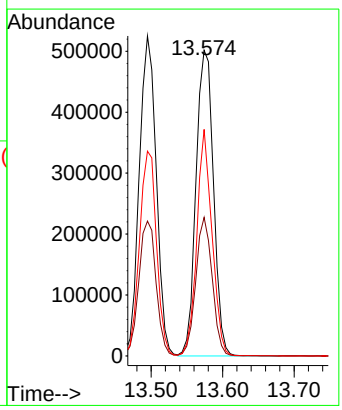


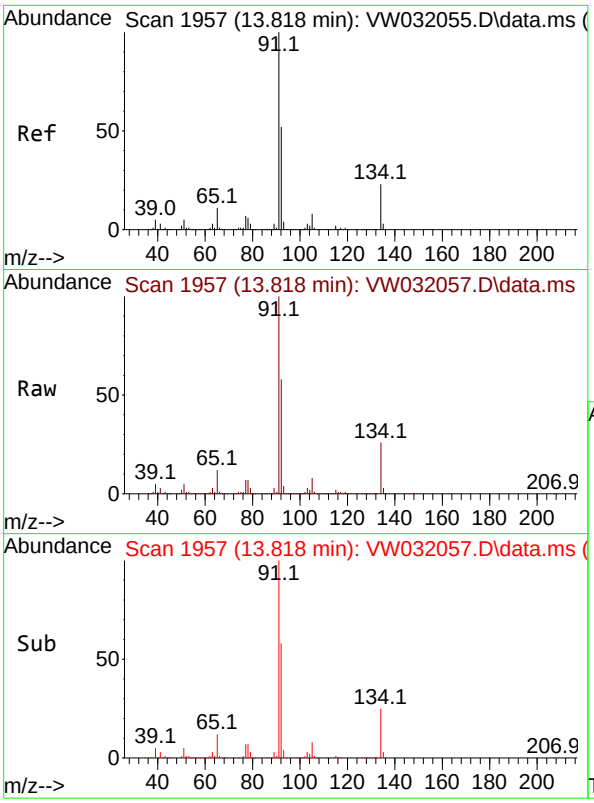


#88
1,4-Dichlorobenzene
Concen: 147.144 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 851057

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.6	64.6
148	64.4	32.0	96.2



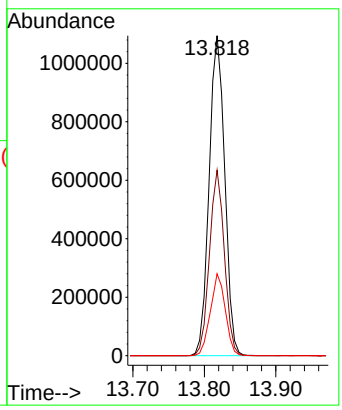


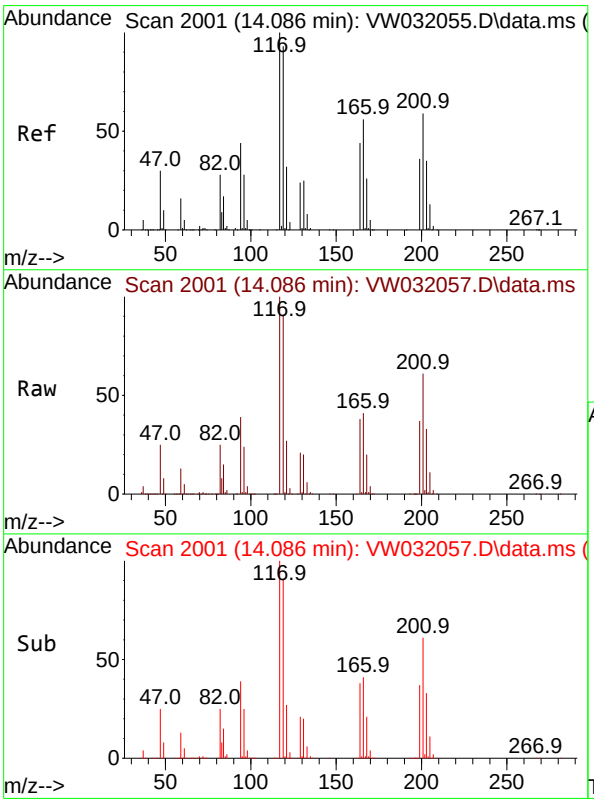
#89
n-Butylbenzene
Concen: 159.527 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1657492

Ion	Ratio	Lower	Upper
91	100		
92	55.4	26.7	80.1
134	24.5	12.0	36.1

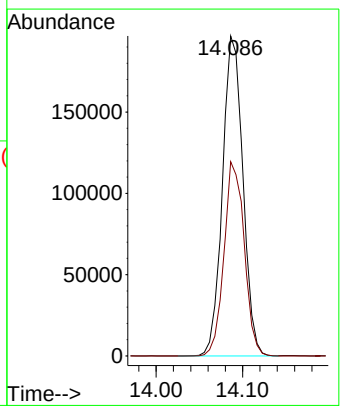


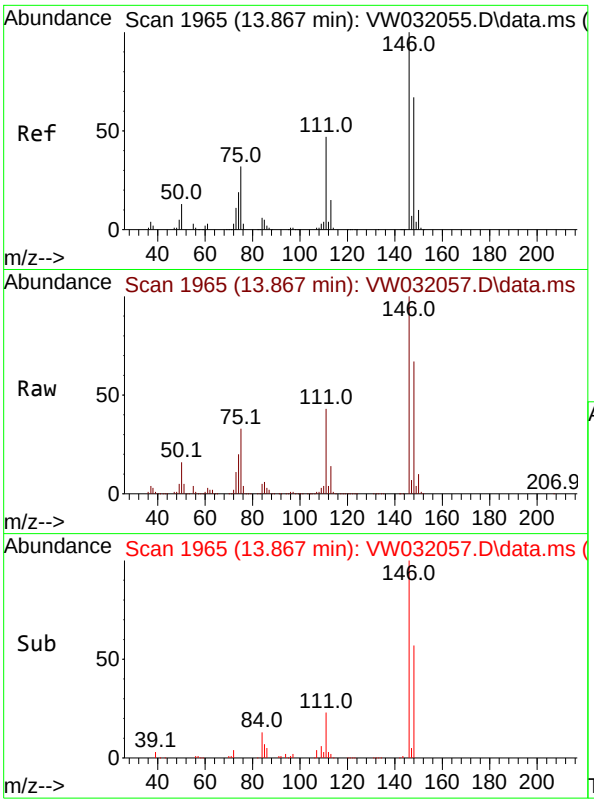


#90
Hexachloroethane
Concen: 164.868 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 322461

Ion	Ratio	Lower	Upper
117	100		
201	60.0	30.9	92.5



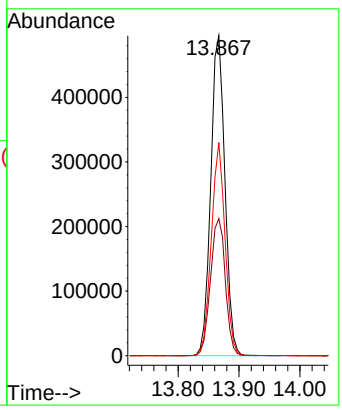


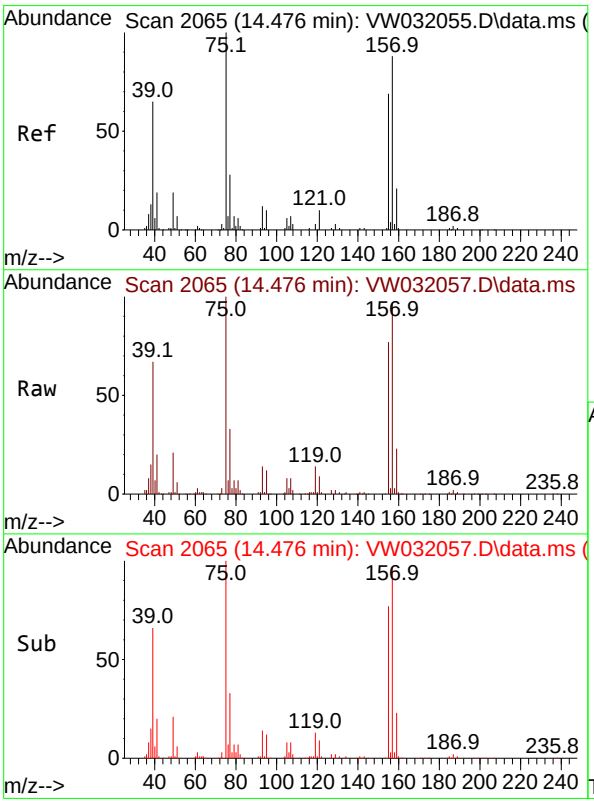
#91
1,2-Dichlorobenzene
Concen: 153.968 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 798257

Ion	Ratio	Lower	Upper
146	100		
111	44.9	23.1	69.3
148	64.7	32.9	98.6

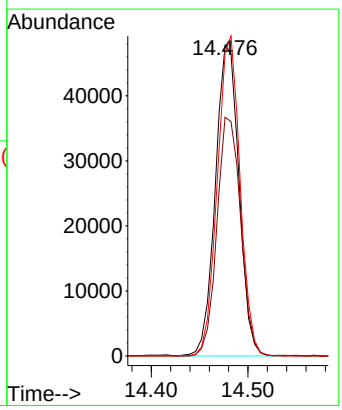


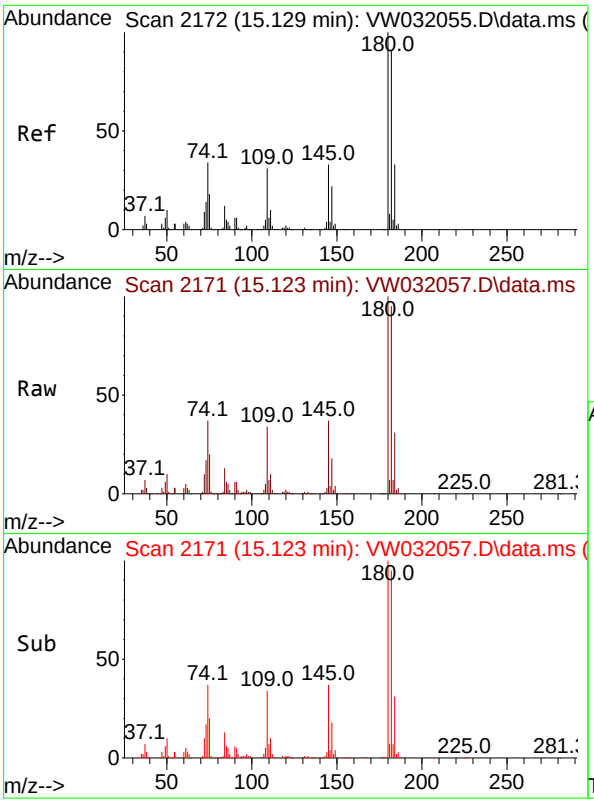


#92
1,2-Dibromo-3-Chloropropane
Concen: 159.472 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 81063

Ion	Ratio	Lower	Upper
75	100		
155	77.0	35.2	105.6
157	98.7	47.5	142.6



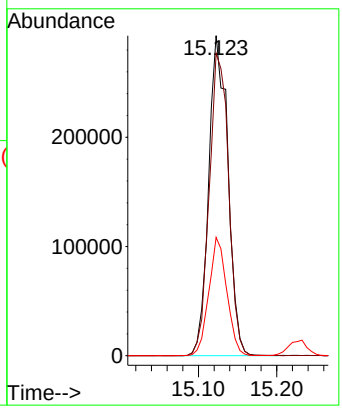


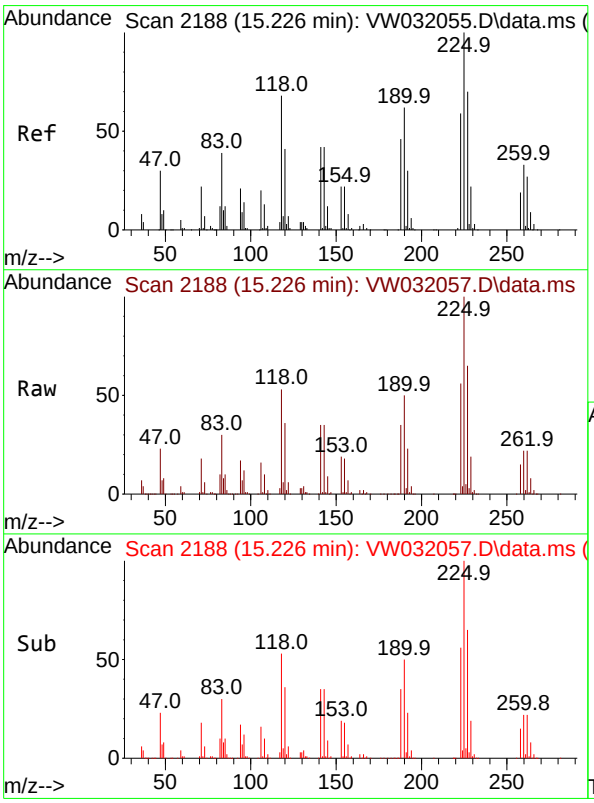
#93
1,2,4-Trichlorobenzene
Concen: 161.006 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 499355

Ion	Ratio	Lower	Upper
180	100		
182	95.3	49.0	147.0
145	34.7	17.3	51.9

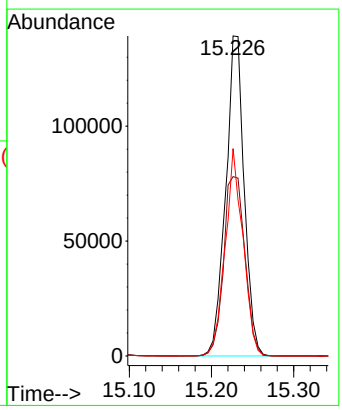


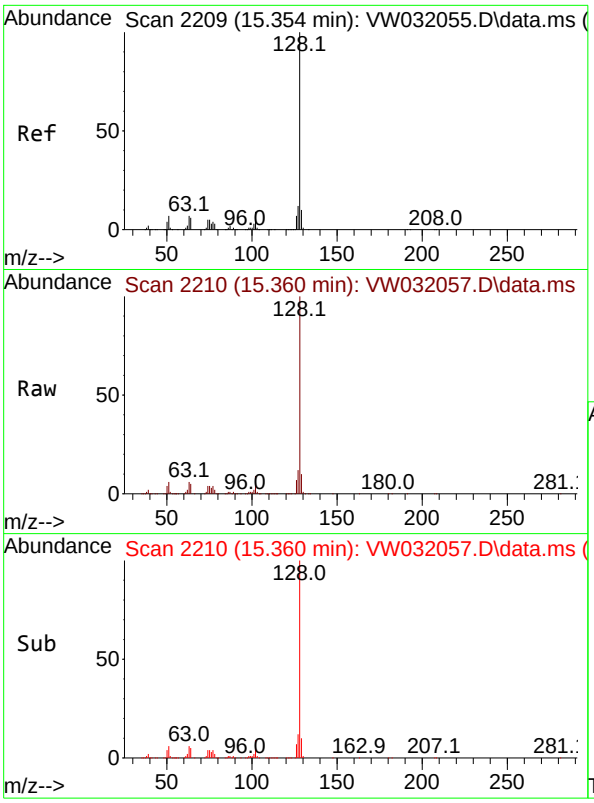


#94
Hexachlorobutadiene
Concen: 157.938 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:225 Resp: 218963

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.8	95.3
227	62.4	33.5	100.5



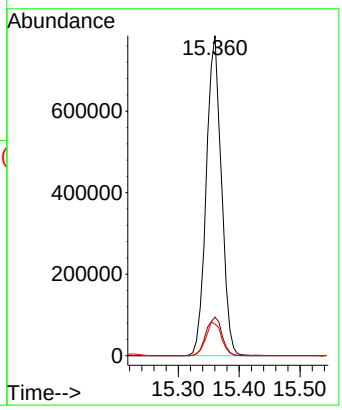


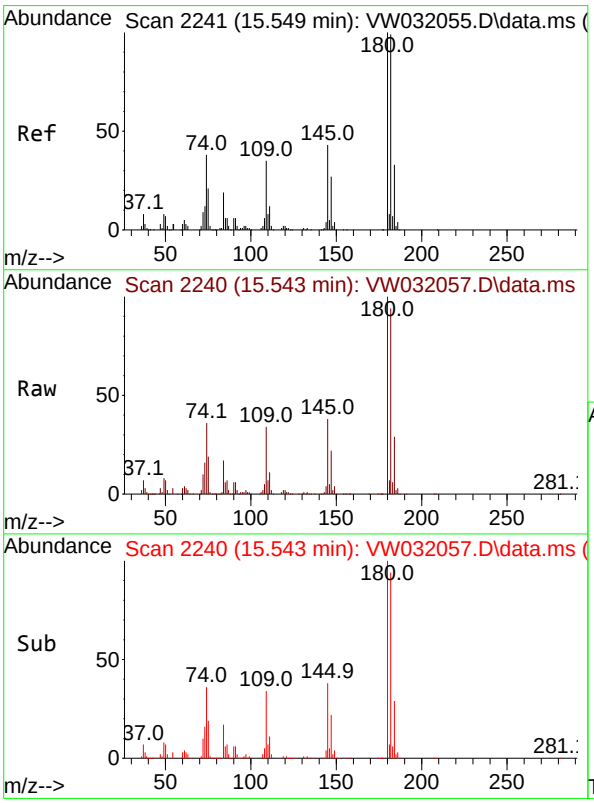
#95
Naphthalene
Concen: 177.424 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1348344

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	8.2	12.4

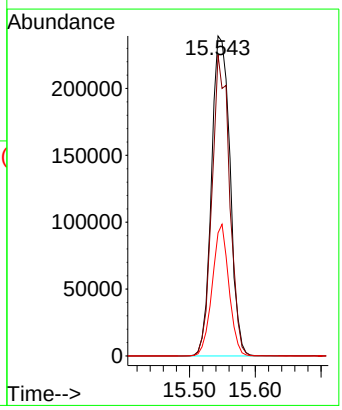




#96
1,2,3-Trichlorobenzene
Concen: 165.423 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 466811

Ion	Ratio	Lower	Upper
180	100		
182	89.3	46.0	138.0
145	37.2	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	226453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	420434	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	386856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	182577	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	161155	49.205	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 98.420%			
35) Dibromofluoromethane	7.898	113	135642	49.939	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.880%			
50) Toluene-d8	10.325	98	499377	49.708	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.420%			
62) 4-Bromofluorobenzene	12.617	95	190514	51.460	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	69757	43.069	ug/l	98
3) Chloromethane	2.253	50	103574	47.474	ug/l	100
4) Vinyl Chloride	2.405	62	124287	47.096	ug/l	95
5) Bromomethane	2.820	94	93451	47.201	ug/l	100
6) Chloroethane	2.966	64	83573	47.858	ug/l	97
7) Trichlorofluoromethane	3.308	101	108634	51.386	ug/l	91
8) Diethyl Ether	3.722	74	87261	50.380	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	118012	47.316	ug/l	99
10) Methyl Iodide	4.307	142	175903	49.742	ug/l	97
11) Tert butyl alcohol	5.210	59	57666	271.910	ug/l	99
12) 1,1-Dichloroethene	4.076	96	131802	47.992	ug/l	97
13) Acrolein	3.929	56	80072	236.960	ug/l	98
14) Allyl chloride	4.710	41	204222	51.094	ug/l	99
15) Acrylonitrile	5.405	53	219409	265.958	ug/l	99
16) Acetone	4.161	43	192802	254.262	ug/l	97
17) Carbon Disulfide	4.423	76	360982	48.970	ug/l	96
18) Methyl Acetate	4.716	43	126246	52.614	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	263546	54.465	ug/l	100
20) Methylene Chloride	4.954	84	162865	46.453	ug/l	96
21) trans-1,2-Dichloroethene	5.466	96	145825	50.035	ug/l	98
22) Diisopropyl ether	6.338	45	438483	52.038	ug/l	97
23) Vinyl Acetate	6.283	43	1494873	270.210	ug/l	100
24) 1,1-Dichloroethane	6.246	63	265060	49.234	ug/l	98
25) 2-Butanone	7.191	43	293227	272.083	ug/l	96
26) 2,2-Dichloropropane	7.185	77	134123	49.659	ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	175120	51.404	ug/l	98
28) Bromochloromethane	7.532	49	123268	50.315	ug/l	98
29) Tetrahydrofuran	7.551	42	194909	274.235	ug/l	100
30) Chloroform	7.691	83	284250	49.803	ug/l	98
31) Cyclohexane	7.971	56	217714	46.646	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	207733	50.108	ug/l	97
36) 1,1-Dichloropropene	8.093	75	189820	49.574	ug/l	100
37) Ethyl Acetate	7.270	43	124516	55.214	ug/l	99
38) Carbon Tetrachloride	8.081	117	184816	50.015	ug/l	98
39) Methylcyclohexane	9.343	83	243533	52.181	ug/l	98
40) Benzene	8.337	78	598350	50.272	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	70600	55.204	ug/l		97
42) 1,2-Dichloroethane	8.410	62	194825	51.154	ug/l		99
43) Isopropyl Acetate	8.435	43	227561	54.846	ug/l		99
44) Trichloroethene	9.099	130	139383	49.175	ug/l		99
45) 1,2-Dichloropropane	9.374	63	147807	51.403	ug/l		99
46) Dibromomethane	9.465	93	93713	50.497	ug/l		98
47) Bromodichloromethane	9.648	83	221409	51.775	ug/l		100
48) Methyl methacrylate	9.441	41	110265	55.048	ug/l		98
49) 1,4-Dioxane	9.459	88	27718	1155.151	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.215	43	645391	275.585	ug/l		100
52) Toluene	10.392	92	377919	50.410	ug/l		96
53) t-1,3-Dichloropropene	10.611	75	212772	53.108	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	238970	52.577	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	127536	51.716	ug/l		97
56) Ethyl methacrylate	10.648	69	186039	56.374	ug/l		99
57) 1,3-Dichloropropane	10.934	76	220027	51.186	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	498131	272.893	ug/l		99
59) 2-Hexanone	10.971	43	457083	281.817	ug/l		100
60) Dibromochloromethane	11.129	129	147264	52.276	ug/l		100
61) 1,2-Dibromoethane	11.239	107	126064	52.603	ug/l		100
64) Tetrachloroethene	10.861	164	114507	51.245	ug/l		95
65) Chlorobenzene	11.660	112	416485	49.461	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.733	131	132212	50.324	ug/l		98
67) Ethyl Benzene	11.727	91	716757	50.253	ug/l		100
68) m/p-Xylenes	11.837	106	559216	101.607	ug/l		99
69) o-Xylene	12.160	106	261548	51.416	ug/l		98
70) Styrene	12.178	104	468335	51.833	ug/l		99
71) Bromoform	12.349	173	82571	54.945	ug/l	#	98
73) Isopropylbenzene	12.458	105	670779	52.571	ug/l		99
74) N-amyl acetate	12.269	43	203837	55.682	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.714	83	159092	52.514	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	201159	81.178	ug/l		58
77) Bromobenzene	12.745	156	152028	49.886	ug/l		94
78) n-propylbenzene	12.800	91	803474	51.148	ug/l		99
79) 2-Chlorotoluene	12.885	91	495562	51.114	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	566437	52.291	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	51275	53.570	ug/l		97
82) 4-Chlorotoluene	12.989	91	518248	50.312	ug/l		99
83) tert-Butylbenzene	13.202	119	483459	53.777	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	587831	53.308	ug/l		99
85) sec-Butylbenzene	13.379	105	687367	50.571	ug/l		100
86) p-Isopropyltoluene	13.495	119	584473	51.580	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	305044	50.304	ug/l		95
88) 1,4-Dichlorobenzene	13.574	146	306047	49.942	ug/l		97
89) n-Butylbenzene	13.818	91	571978	51.958	ug/l		98
90) Hexachloroethane	14.092	117	104295	50.329	ug/l		95
91) 1,2-Dichlorobenzene	13.867	146	279745	50.926	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.482	75	29014	53.872	ug/l		98
93) 1,2,4-Trichlorobenzene	15.123	180	173386	52.764	ug/l		90
94) Hexachlorobutadiene	15.226	225	75299	51.262	ug/l		92
95) Naphthalene	15.360	128	438139	54.415	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	162431	54.327	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

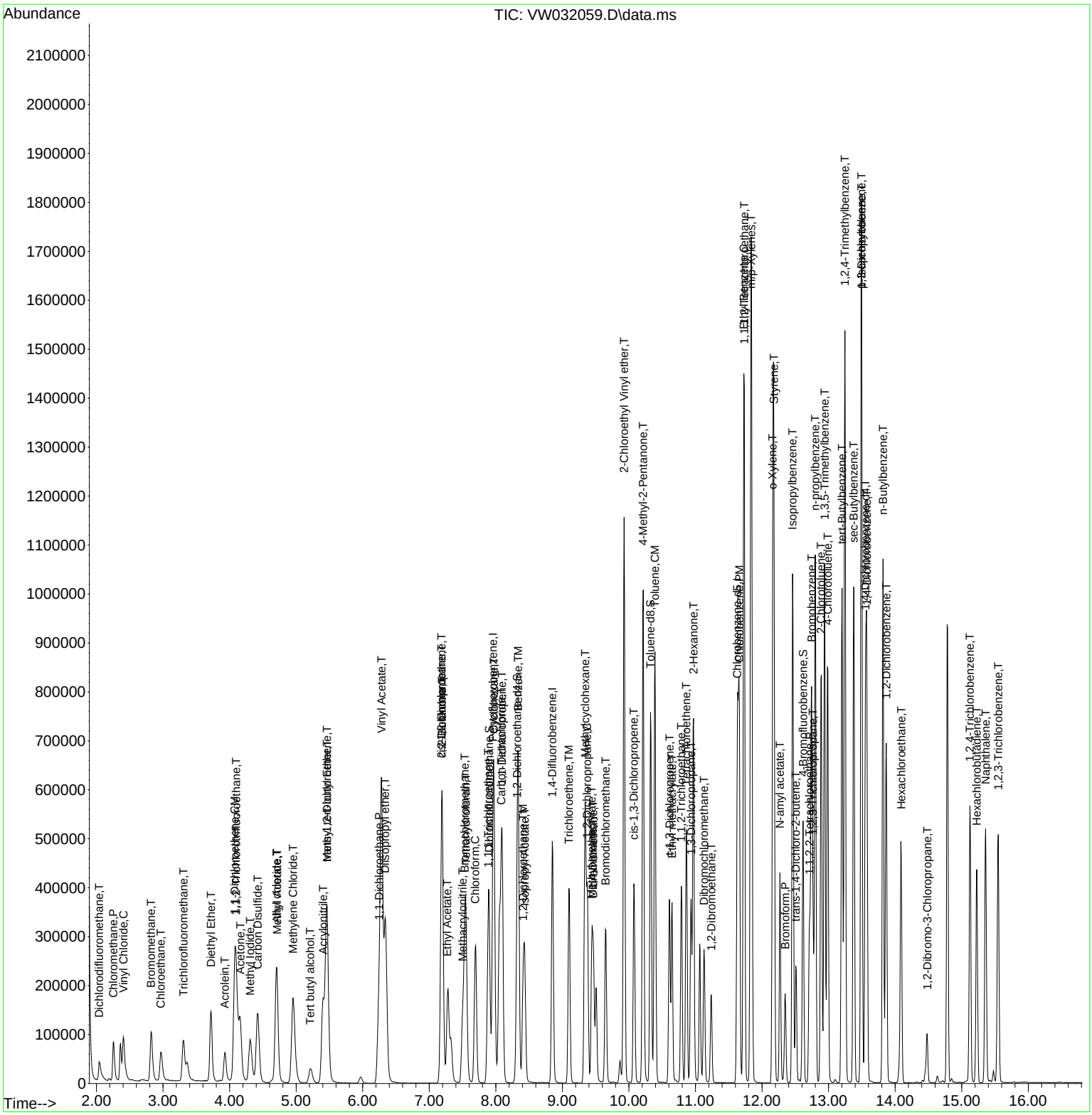
(#) = qualifier out of range (m) = manual integration (+) = signals summed

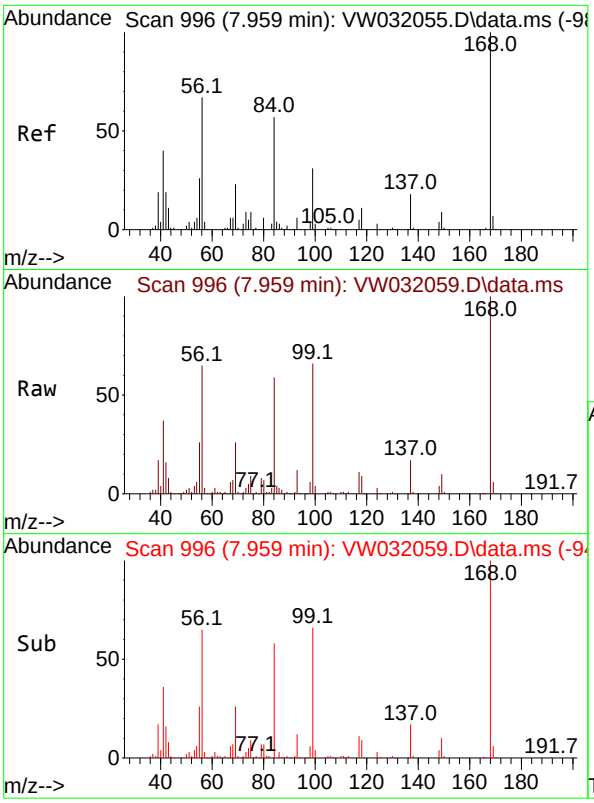
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



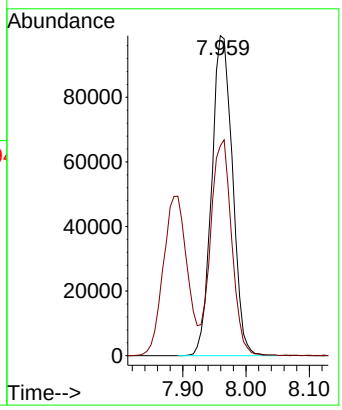


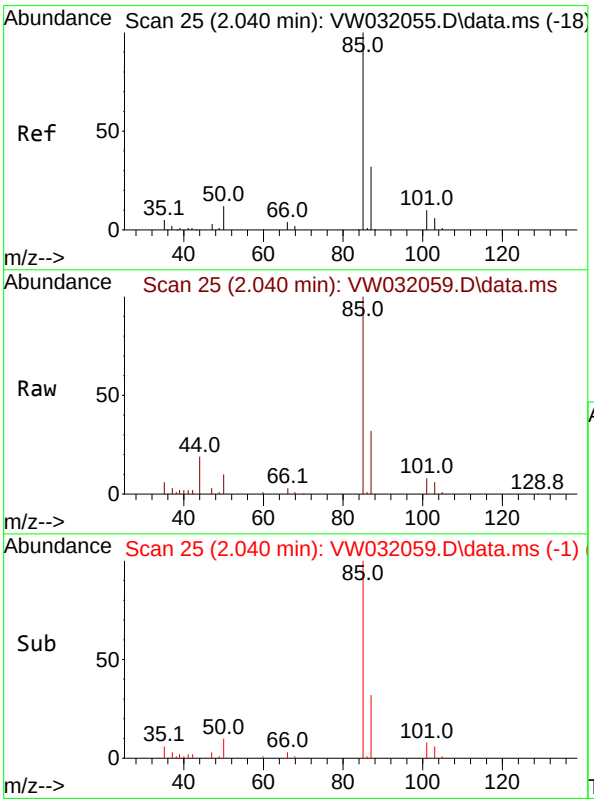
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:168 Resp: 226453

Ion	Ratio	Lower	Upper
168	100		
99	65.5	56.0	84.0

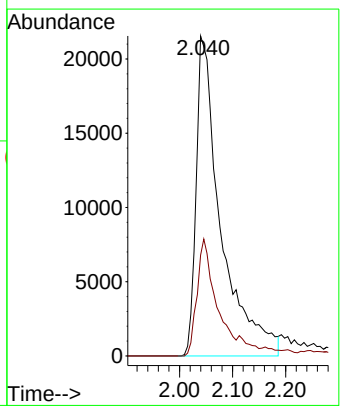


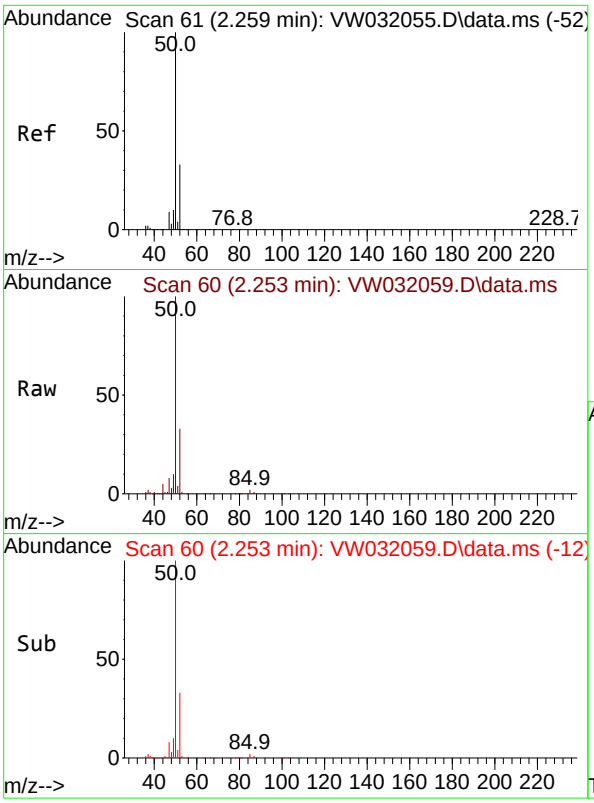


#2
Dichlorodifluoromethane
Concen: 43.069 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 85 Resp: 69757

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.2	48.6



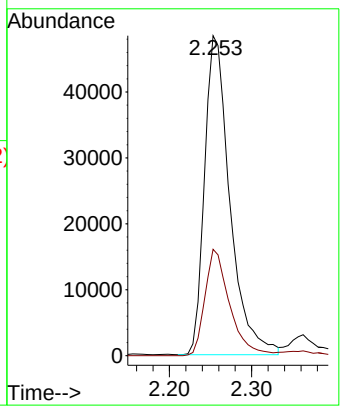


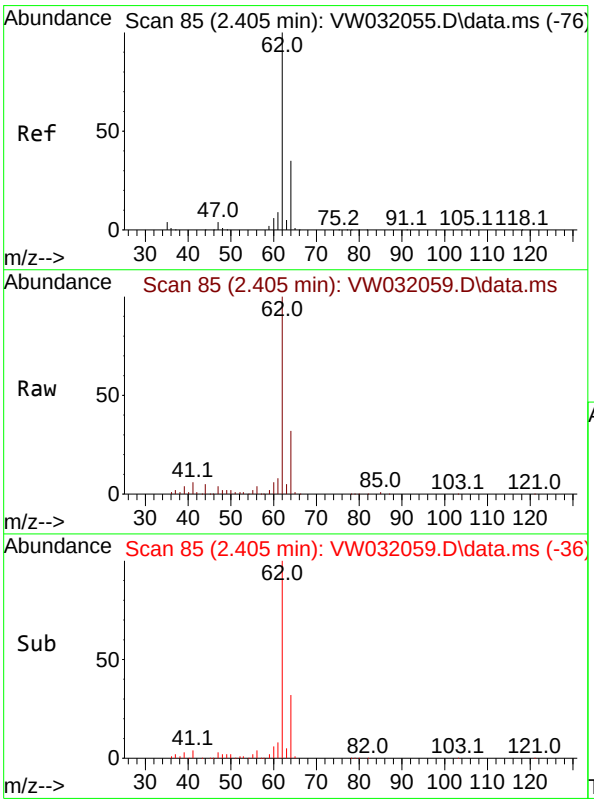
#3
Chloromethane
Concen: 47.474 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 50 Resp: 103574

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.6	39.8

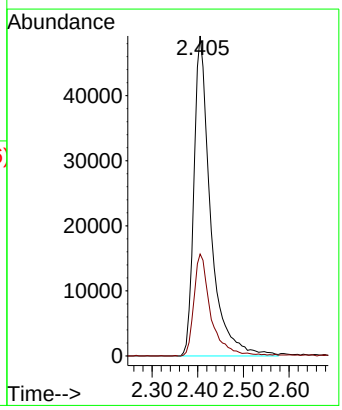


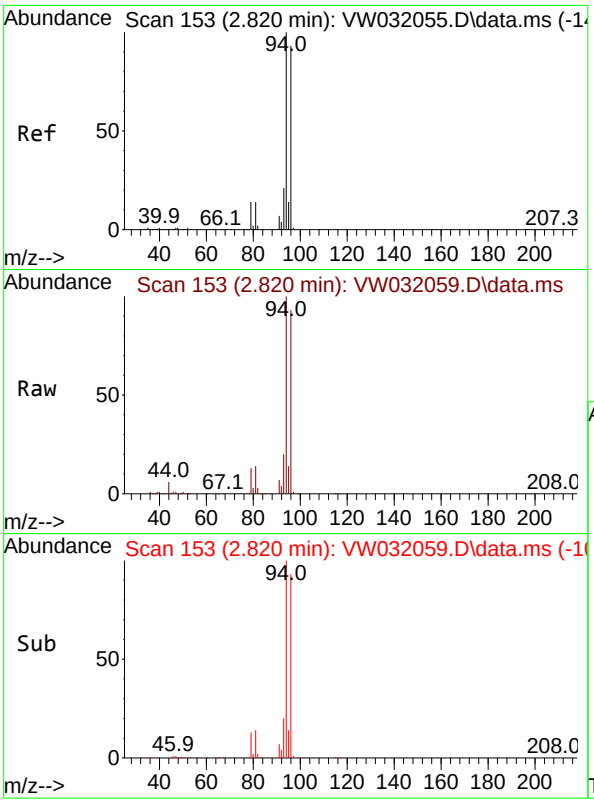


#4
Vinyl Chloride
Concen: 47.096 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 124287

Ion	Ratio	Lower	Upper
62	100		
64	31.9	27.8	41.6



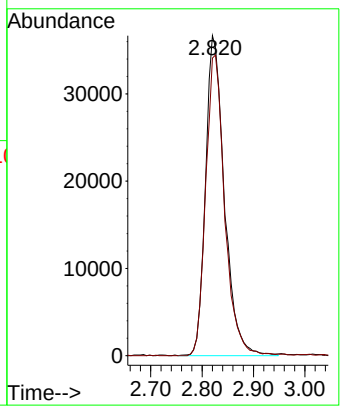


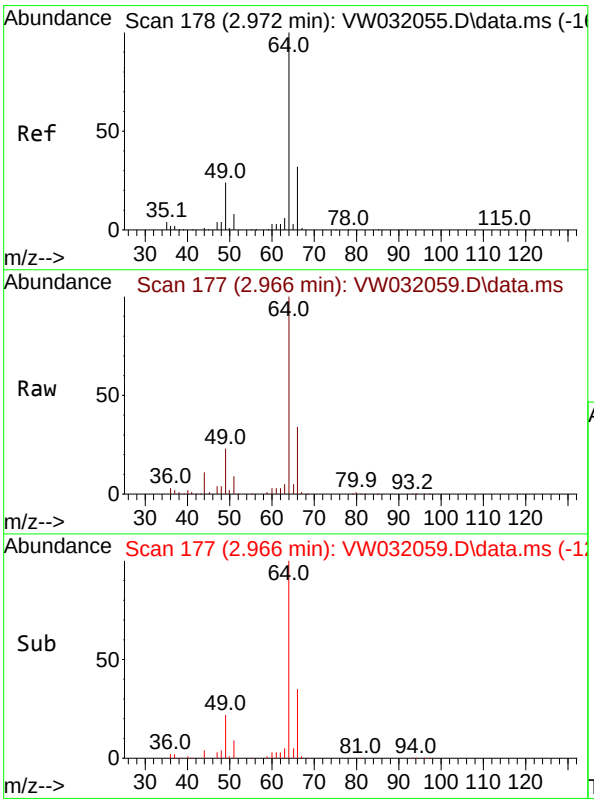
#5
Bromomethane
Concen: 47.201 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 94 Resp: 93451

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.7	112.1

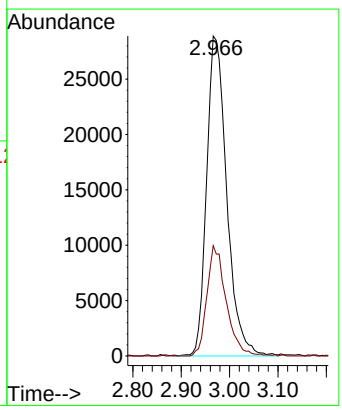


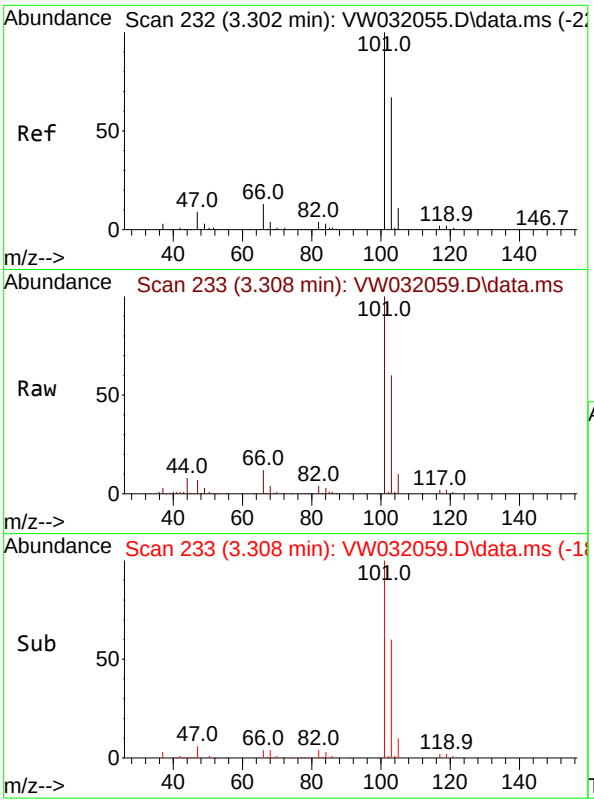


#6
Chloroethane
Concen: 47.858 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 64 Resp: 83573

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.0	39.0



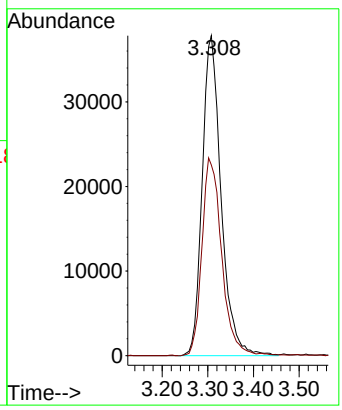


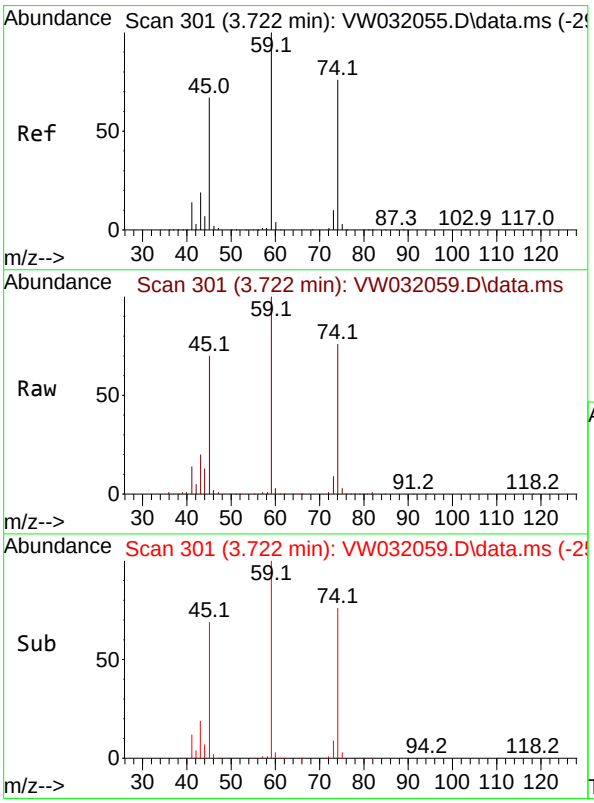
#7
Trichlorofluoromethane
Concen: 51.386 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:101 Resp: 108634

Ion	Ratio	Lower	Upper
101	100		
103	59.6	53.4	80.0

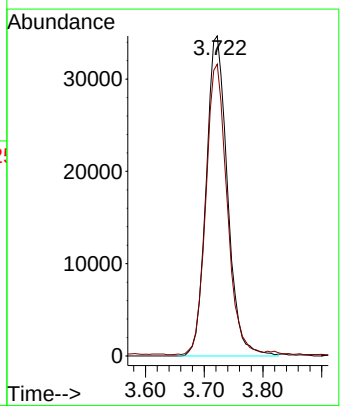


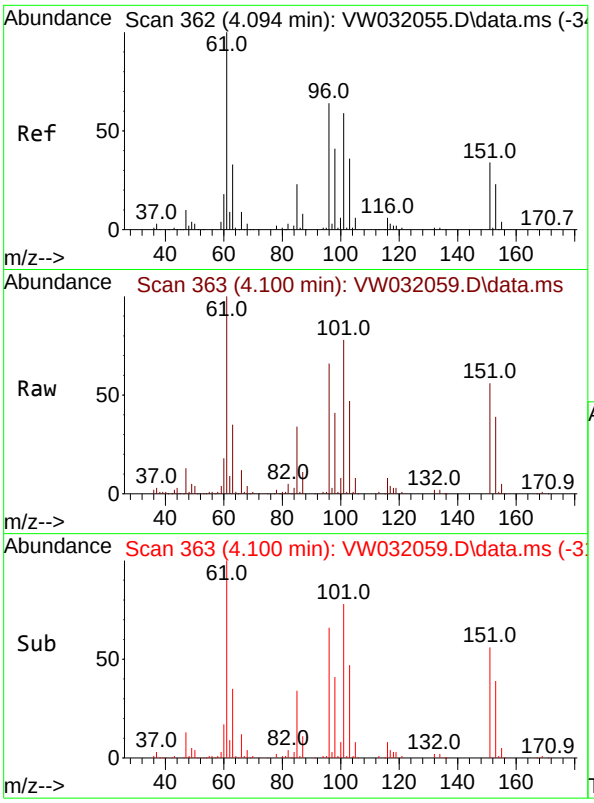


#8
Diethyl Ether
Concen: 50.380 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 74 Resp: 87261

Ion	Ratio	Lower	Upper
74	100		
45	90.2	45.4	136.2



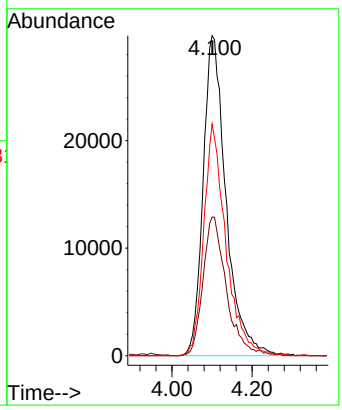


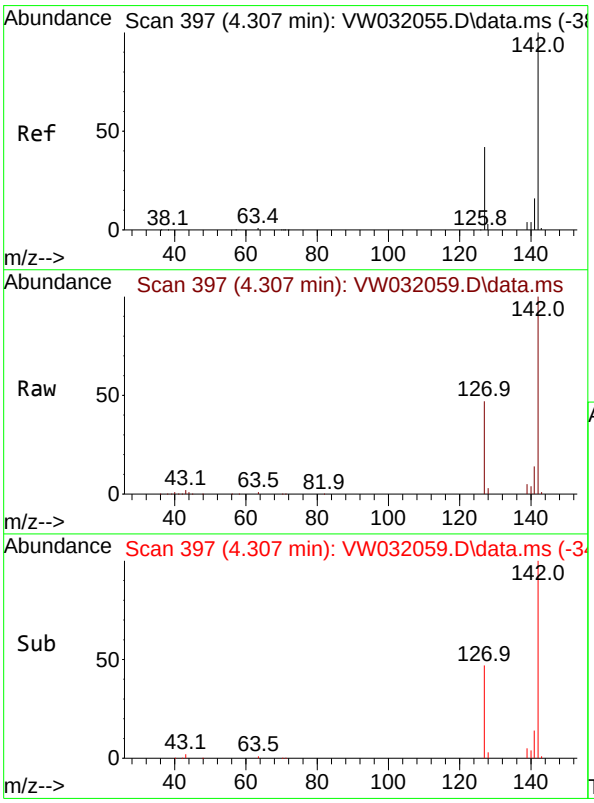
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.316 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:101 Resp: 118012

Ion	Ratio	Lower	Upper
101	100		
85	44.3	34.9	52.3
151	69.9	56.2	84.4

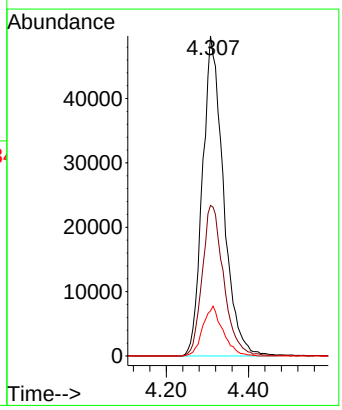


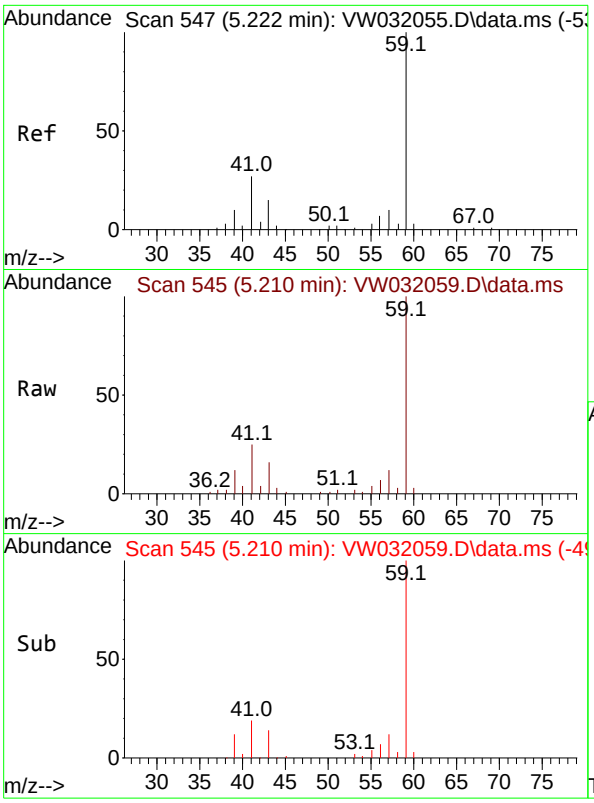


#10
Methyl Iodide
Concen: 49.742 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:142 Resp: 175903

Ion	Ratio	Lower	Upper
142	100		
127	48.1	36.6	55.0
141	14.9	12.1	18.1



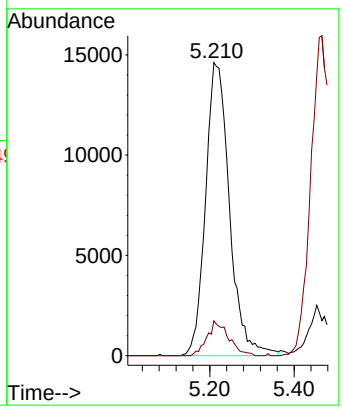


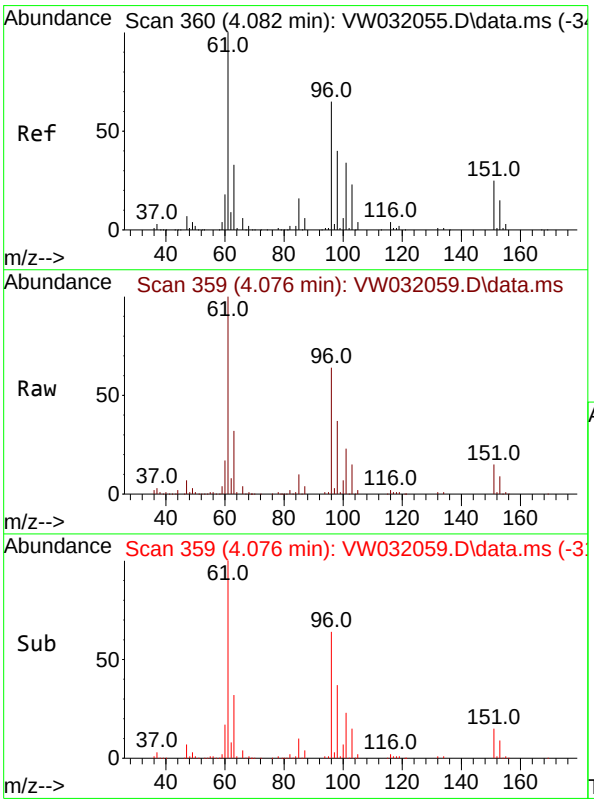
#11
Tert butyl alcohol
Concen: 271.910 ug/l
RT: 5.210 min Scan# 54
Delta R.T. -0.012 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 59 Resp: 57666

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

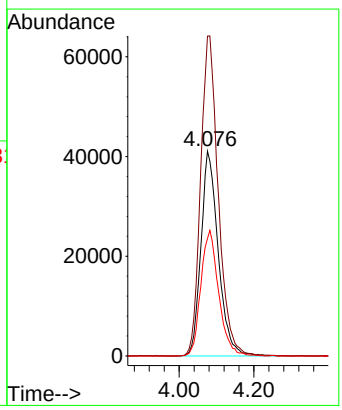


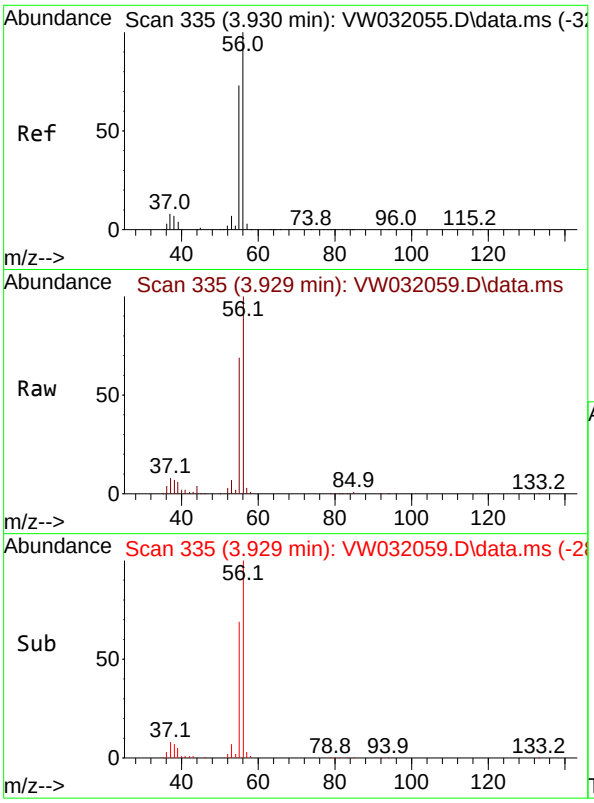


#12
1,1-Dichloroethene
Concen: 47.992 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 131802

Ion	Ratio	Lower	Upper
96	100		
61	156.3	123.4	185.2
98	57.4	49.5	74.3



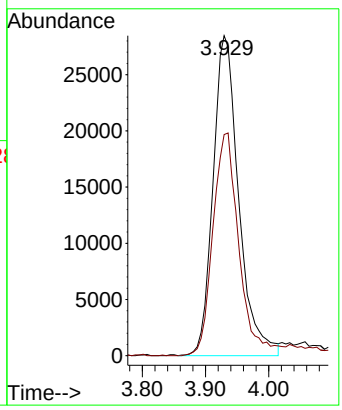


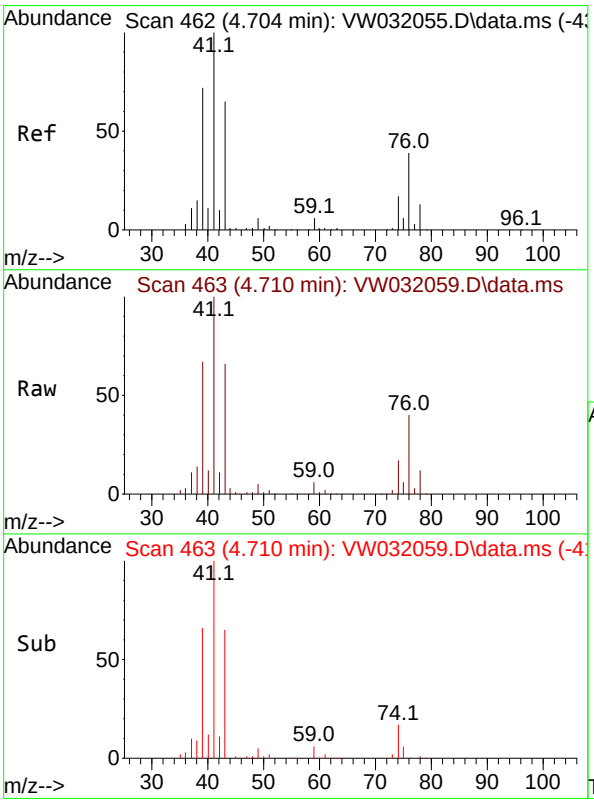
#13
Acrolein
Concen: 236.960 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 56 Resp: 80072

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.4	83.2

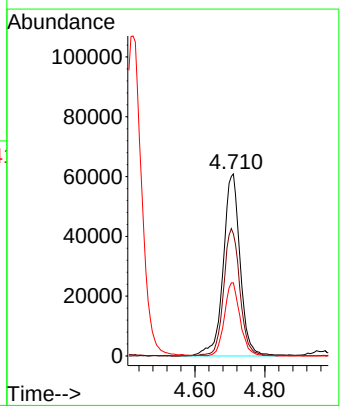


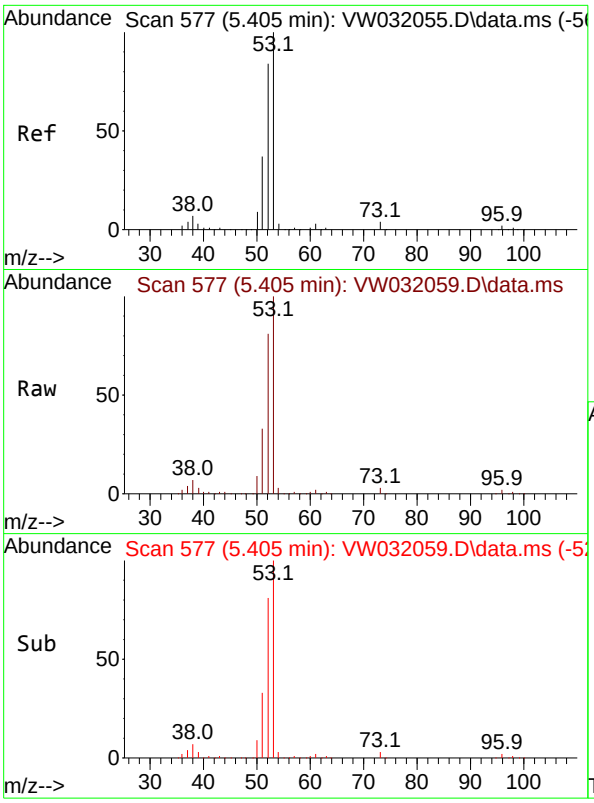


#14
Allyl chloride
Concen: 51.094 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 204222

Ion	Ratio	Lower	Upper
41	100		
39	66.9	54.5	81.7
76	37.4	29.3	43.9



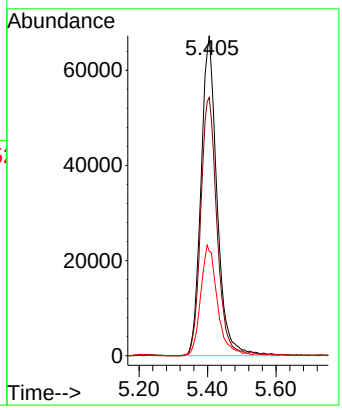


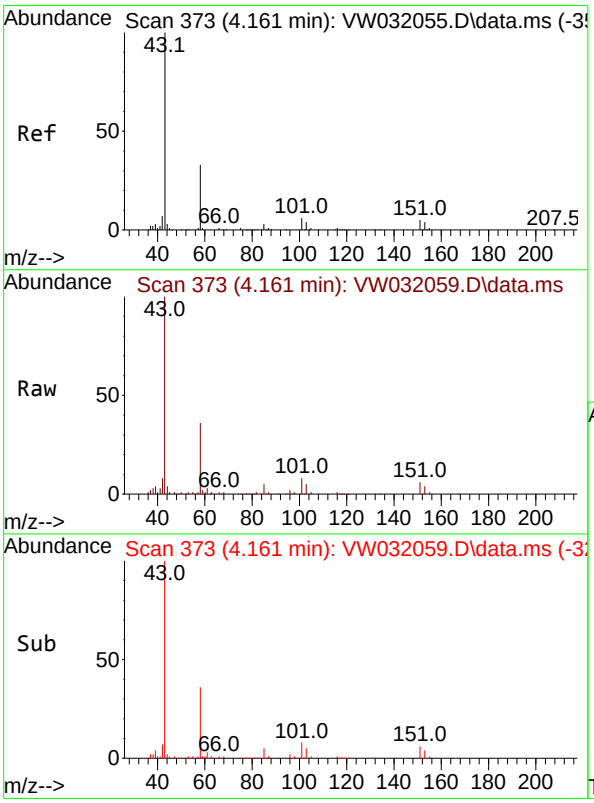
#15
Acrylonitrile
Concen: 265.958 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 53 Resp: 219409

Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.1	99.1
51	36.0	29.2	43.8

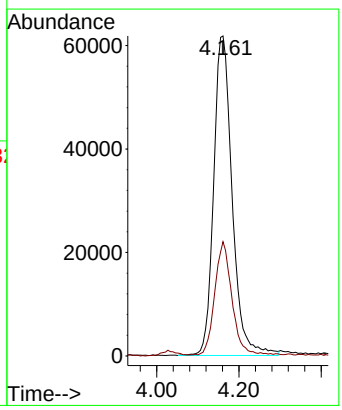


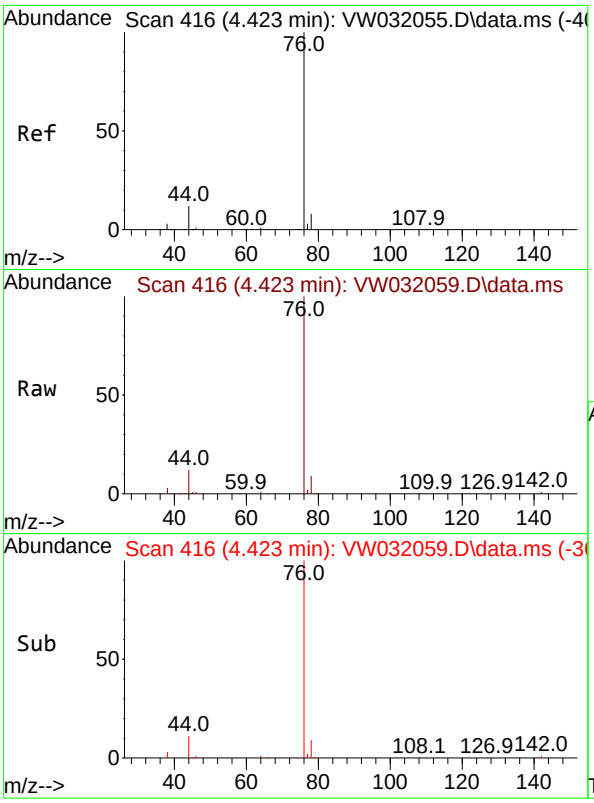


#16
Acetone
Concen: 254.262 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 192802

Ion	Ratio	Lower	Upper
43	100		
58	35.1	26.6	39.8



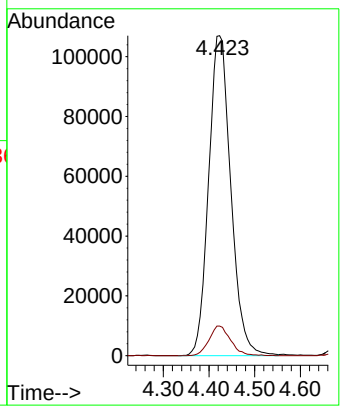


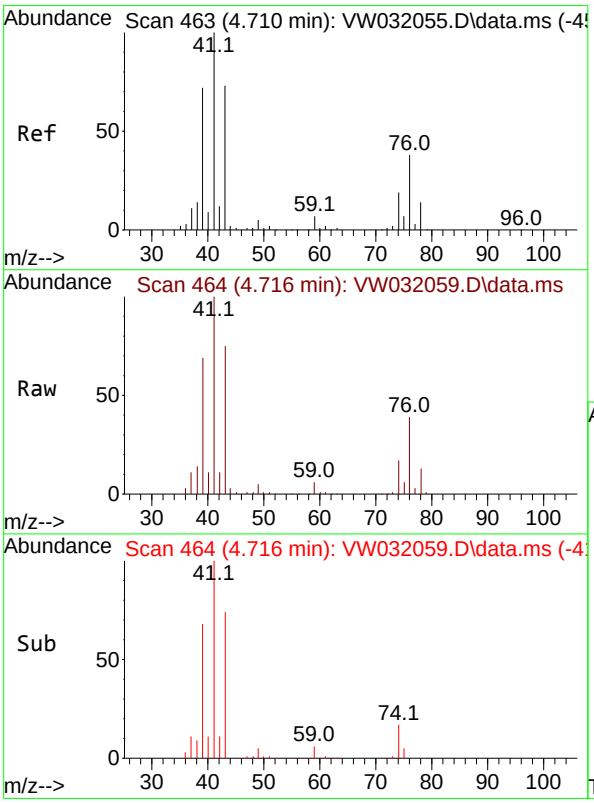
#17
Carbon Disulfide
Concen: 48.970 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 76 Resp: 360982

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.4	9.6

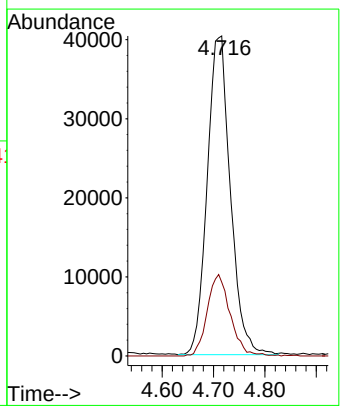


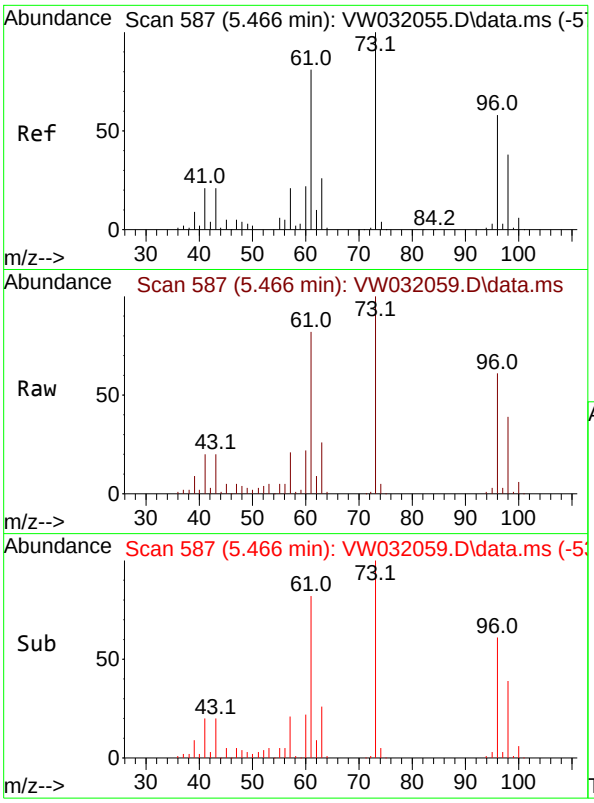


#18
Methyl Acetate
Concen: 52.614 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 126246

Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.6	31.0



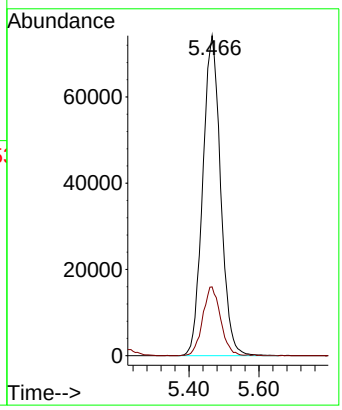


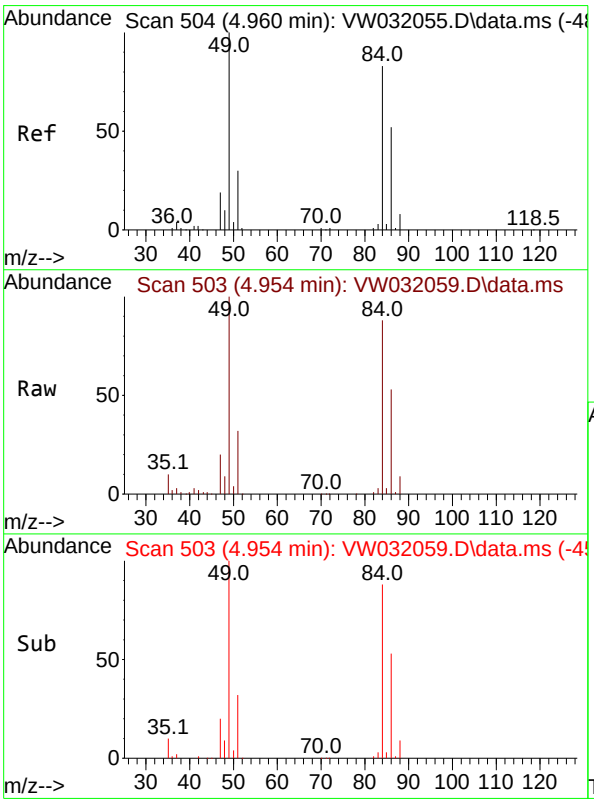
#19
Methyl tert-butyl Ether
Concen: 54.465 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 73 Resp: 263546

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8

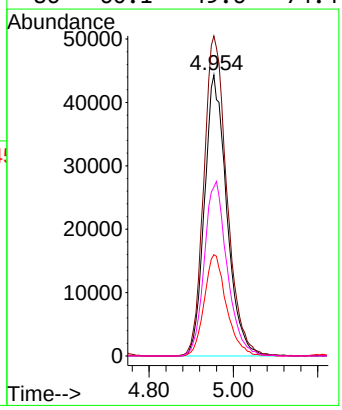


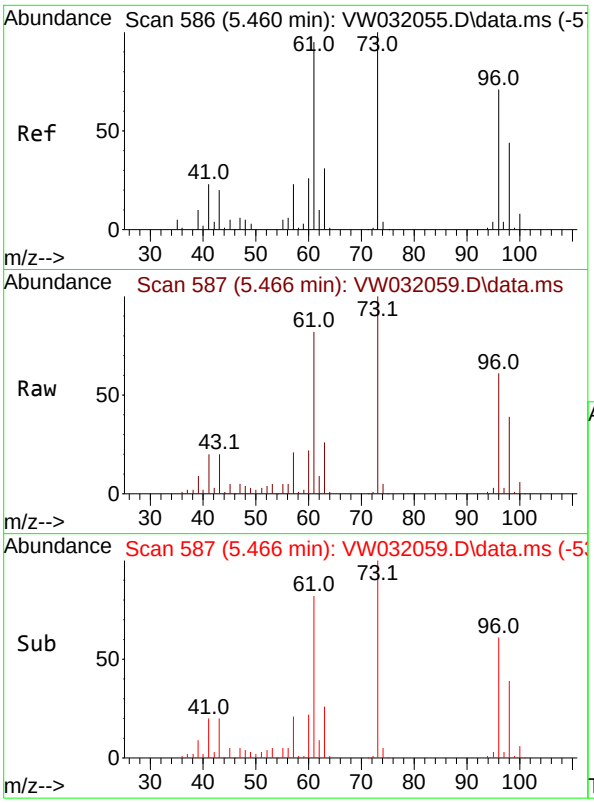


#20
Methylene Chloride
Concen: 46.453 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 84 Resp: 162865

Ion	Ratio	Lower	Upper
84	100		
49	113.9	95.9	143.9
51	36.1	28.6	43.0
86	60.1	49.6	74.4



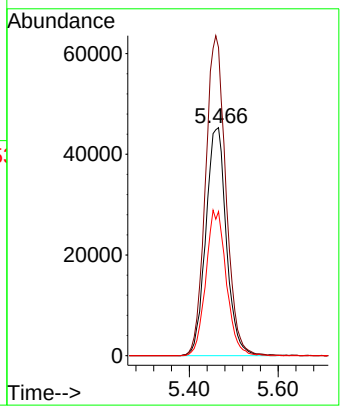


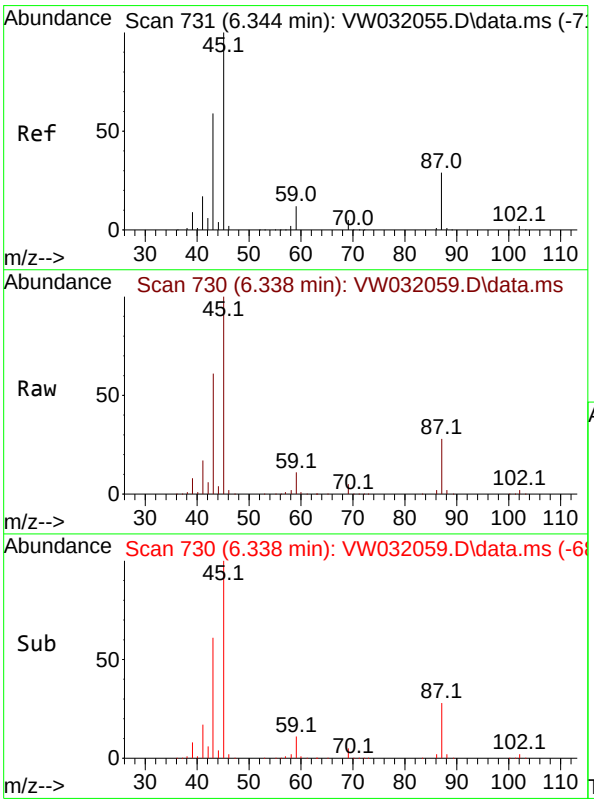
#21
trans-1,2-Dichloroethene
Concen: 50.035 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 96 Resp: 145825

Ion	Ratio	Lower	Upper
96	100		
61	135.2	106.8	160.2
98	63.3	49.6	74.4

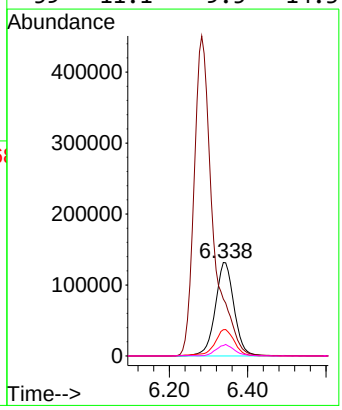


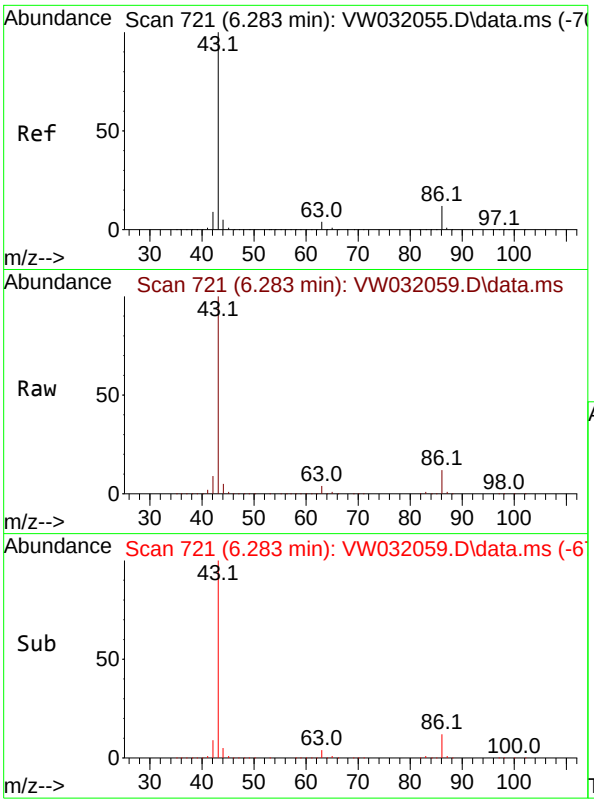


#22
Diisopropyl ether
Concen: 52.038 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 45 Resp: 438483

Ion	Ratio	Lower	Upper
45	100		
43	60.4	47.0	70.4
87	28.0	23.8	35.8
59	11.1	9.5	14.3



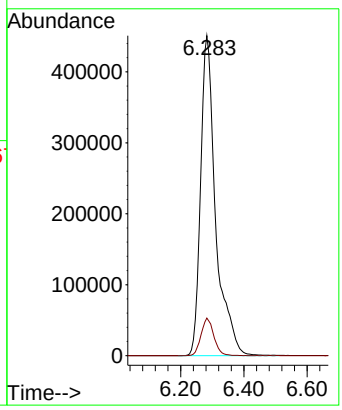


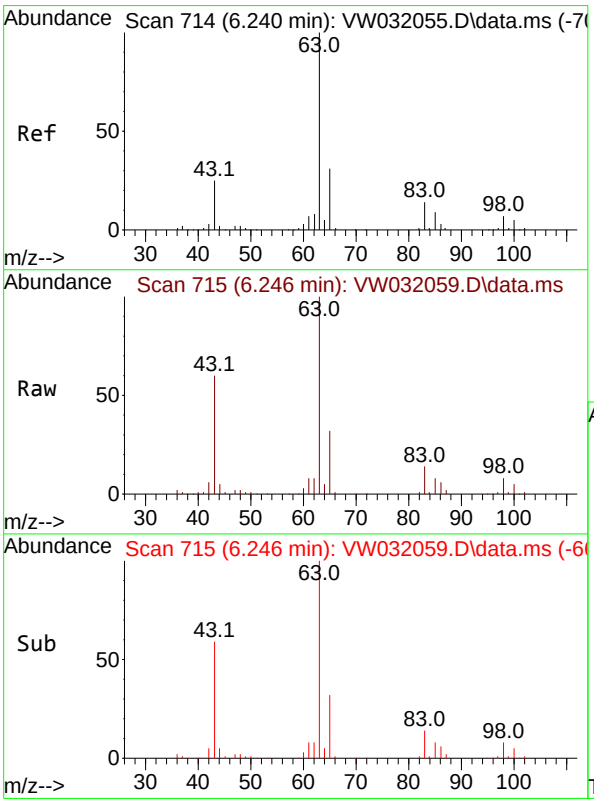
#23
Vinyl Acetate
Concen: 270.210 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 1494873

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

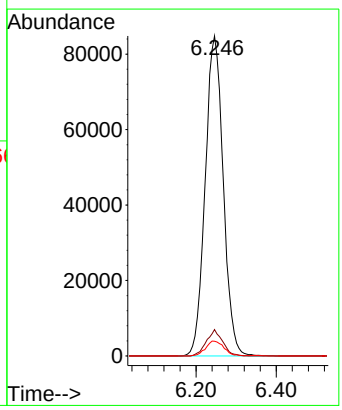


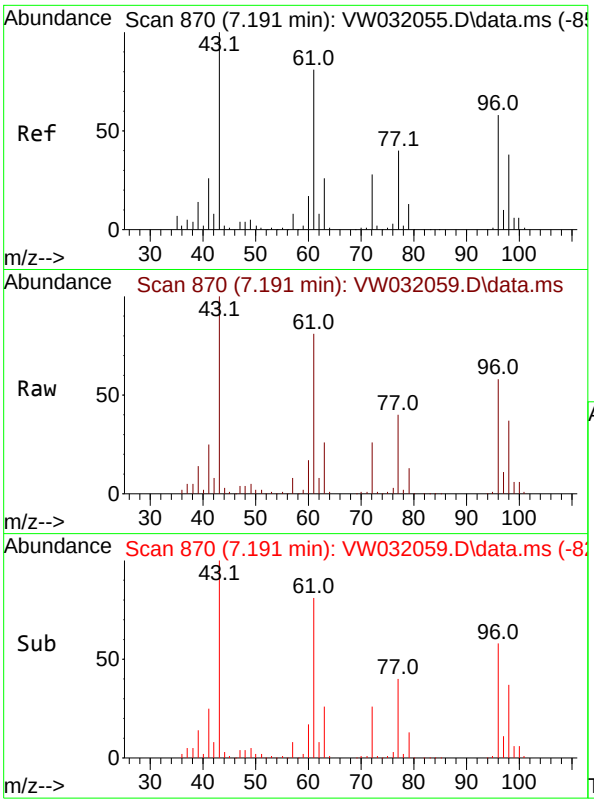


#24
1,1-Dichloroethane
Concen: 49.234 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 265060

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.7	11.1
100	4.6	2.5	7.4



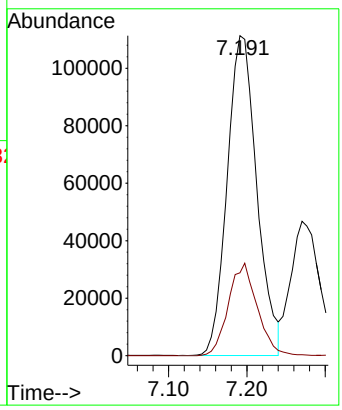


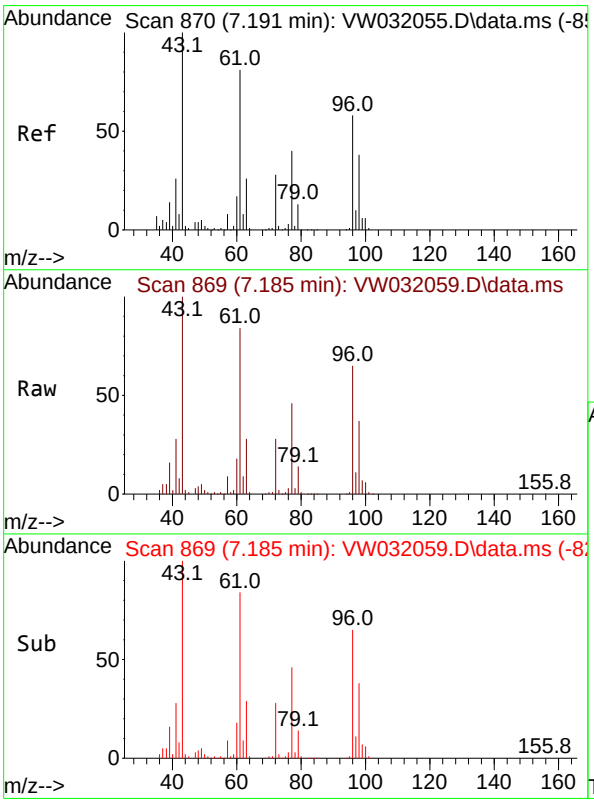
#25
2-Butanone
Concen: 272.083 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 293227

Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.3	33.5

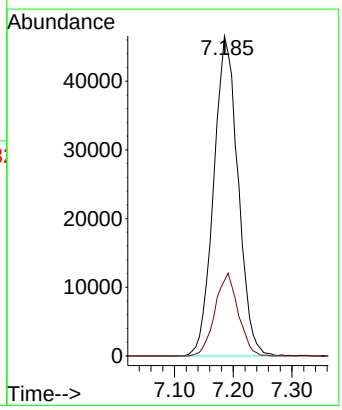


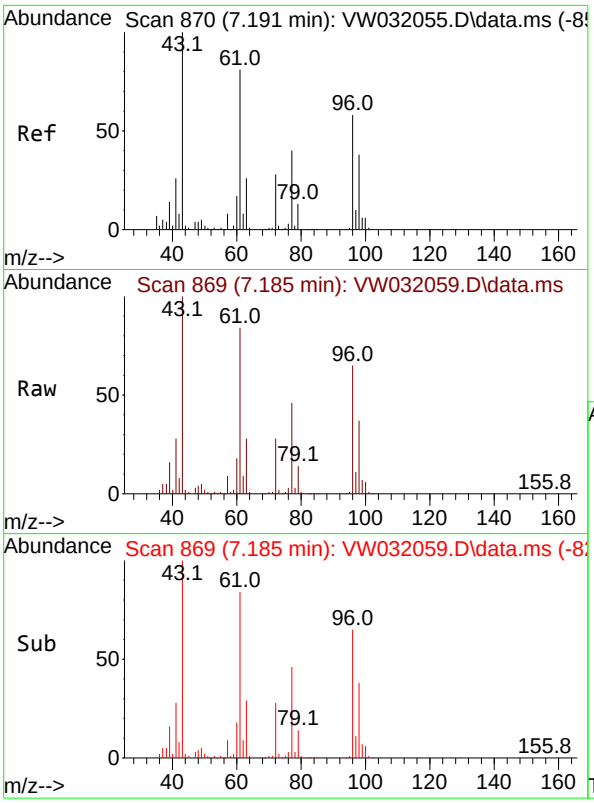


#26
2,2-Dichloropropane
Concen: 49.659 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 77 Resp: 134123

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.3	36.9



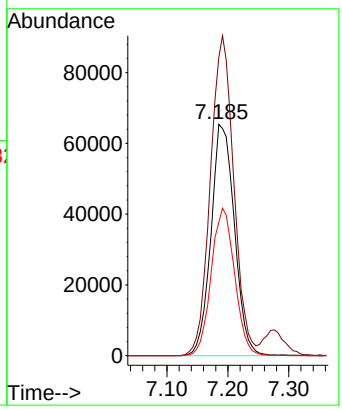


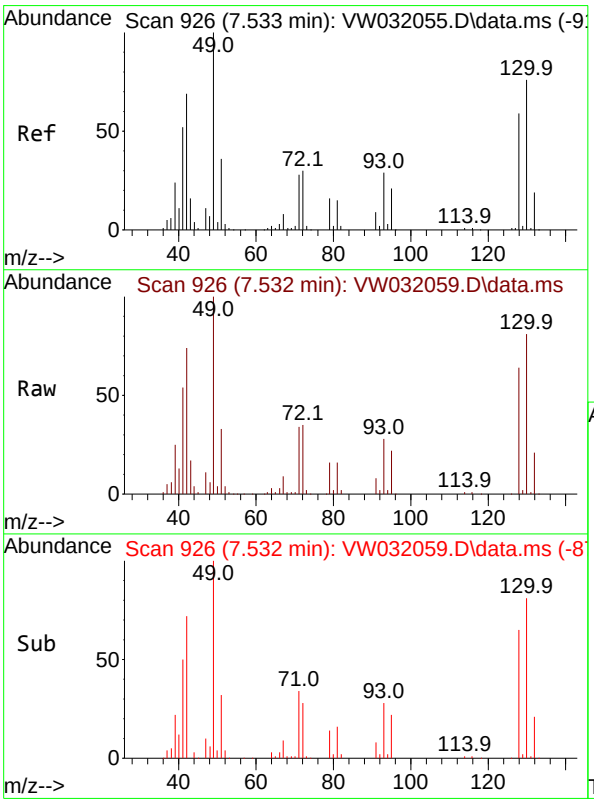
#27
cis-1,2-Dichloroethene
Concen: 51.404 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 96 Resp: 175120

Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	281.2
98	63.6	0.0	130.8

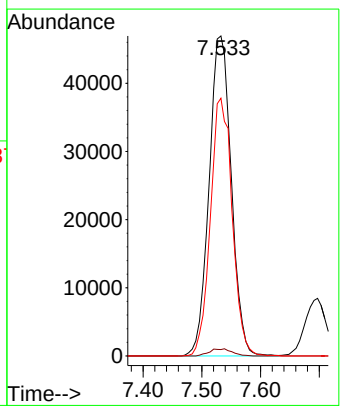


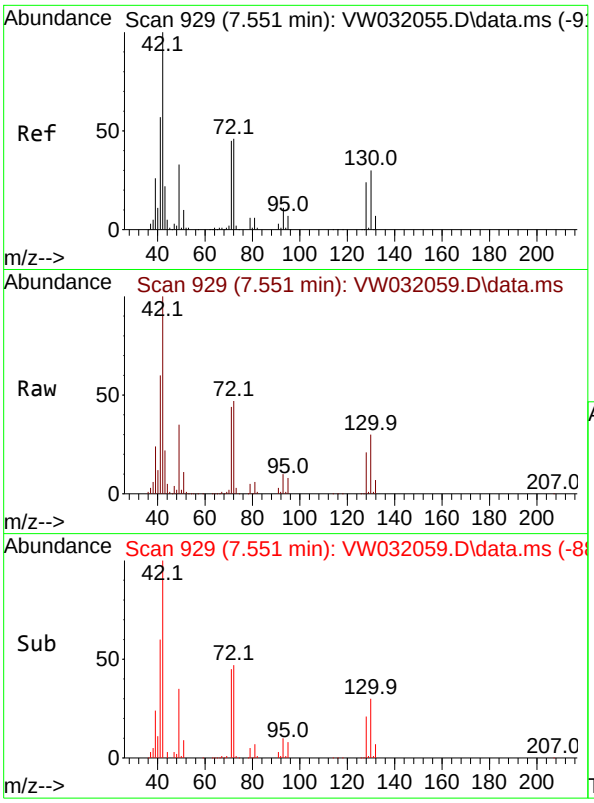


#28
Bromochloromethane
Concen: 50.315 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 49 Resp: 123268

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	79.0	61.9	92.9



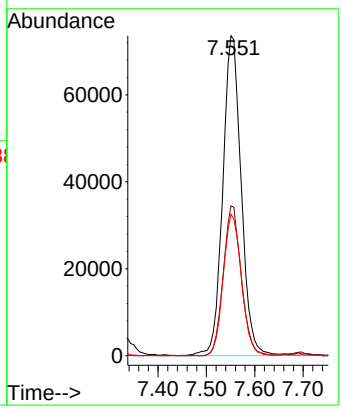


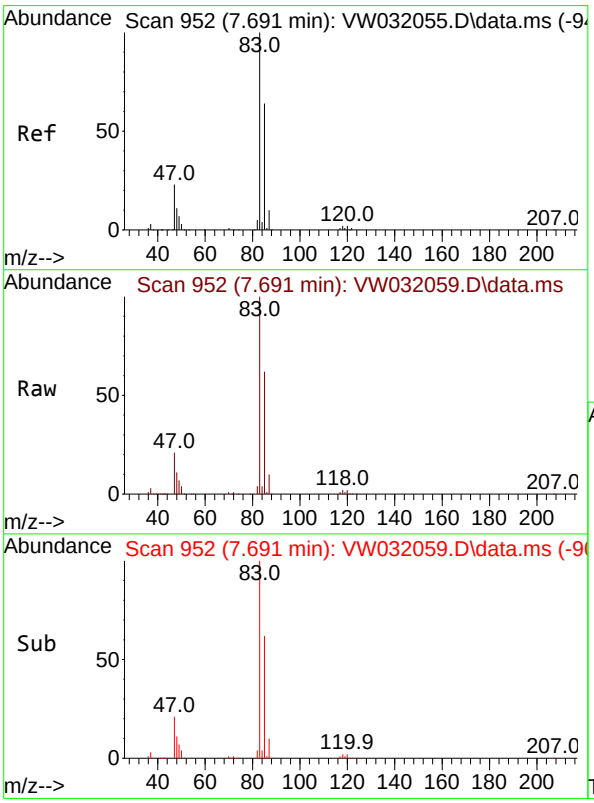
#29
Tetrahydrofuran
Concen: 274.235 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 42 Resp: 194909

Ion	Ratio	Lower	Upper
42	100		
72	45.7	36.6	55.0
71	43.9	34.7	52.1

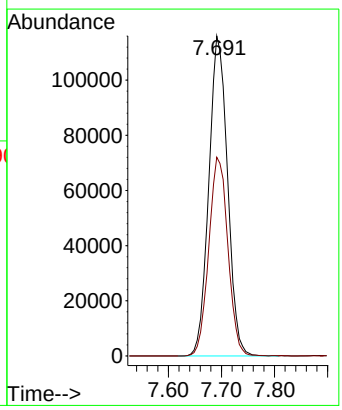


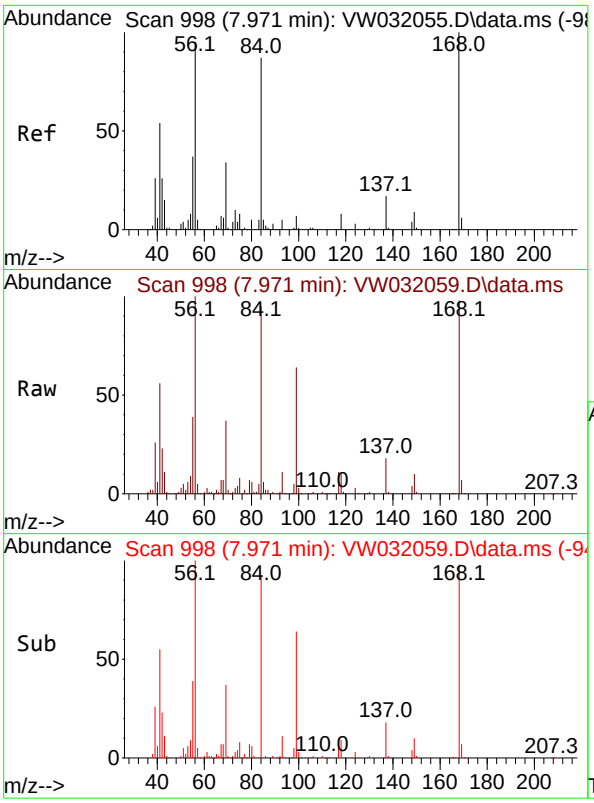


#30
Chloroform
Concen: 49.803 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 284250

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.0	76.4



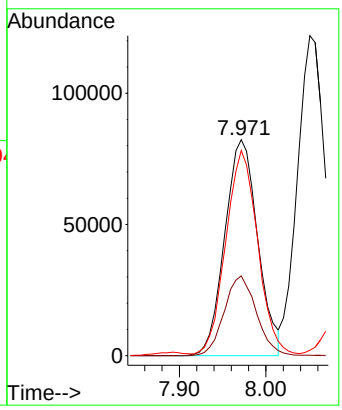


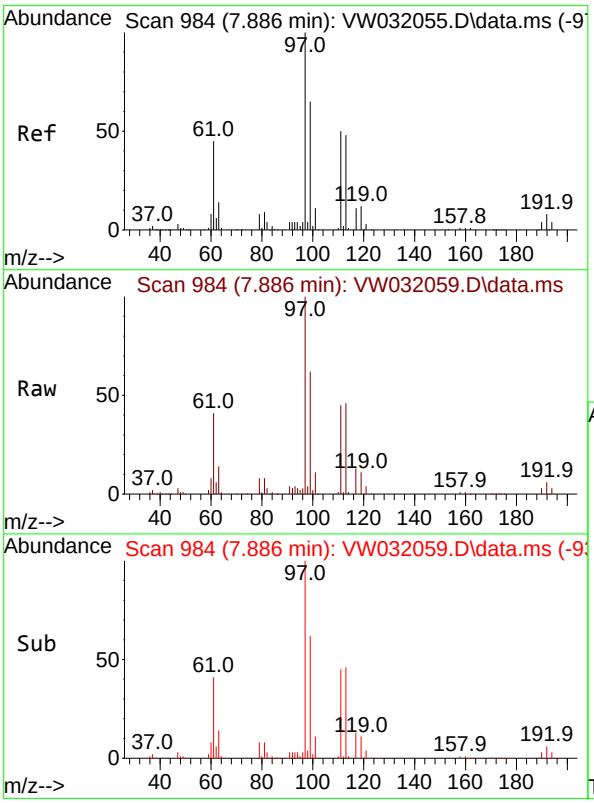
#31
Cyclohexane
Concen: 46.646 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 56 Resp: 217714

Ion	Ratio	Lower	Upper
56	100		
69	36.9	28.6	42.8
84	93.6	73.0	109.4

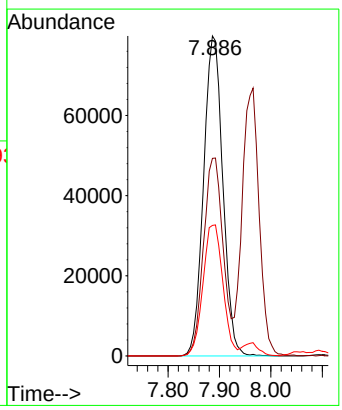


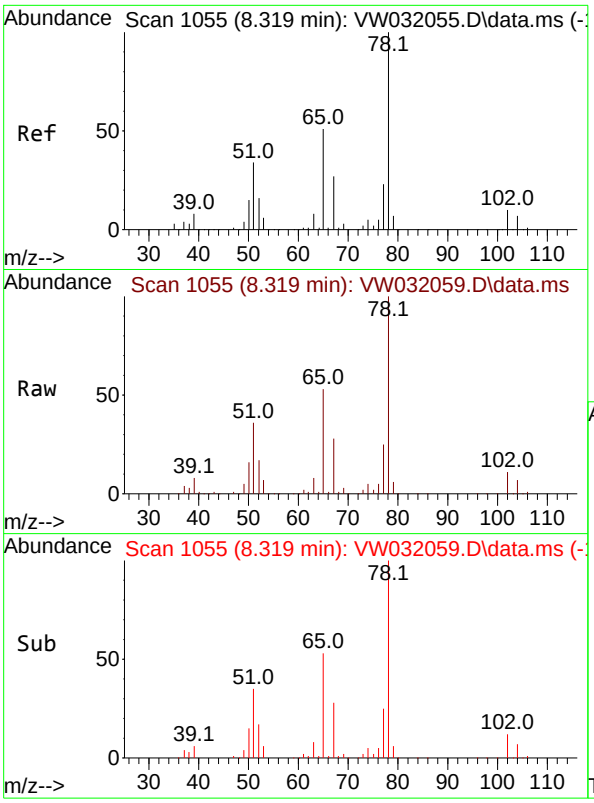


#32
1,1,1-Trichloroethane
Concen: 50.108 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 97 Resp: 207733

Ion	Ratio	Lower	Upper
97	100		
99	62.3	51.8	77.8
61	42.4	35.9	53.9



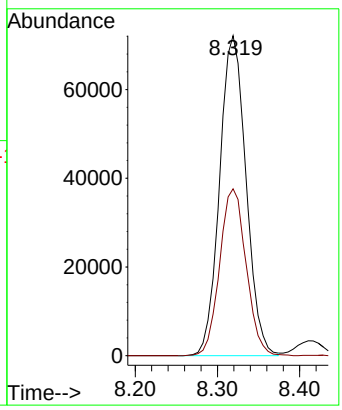


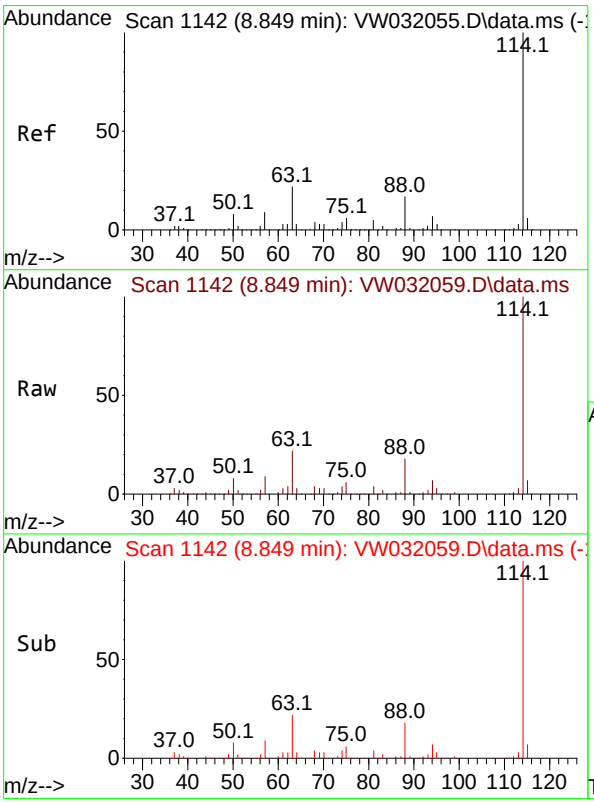
#33
1,2-Dichloroethane-d4
Concen: 49.205 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 65 Resp: 161155

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.4

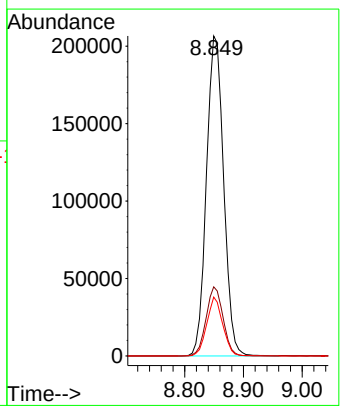


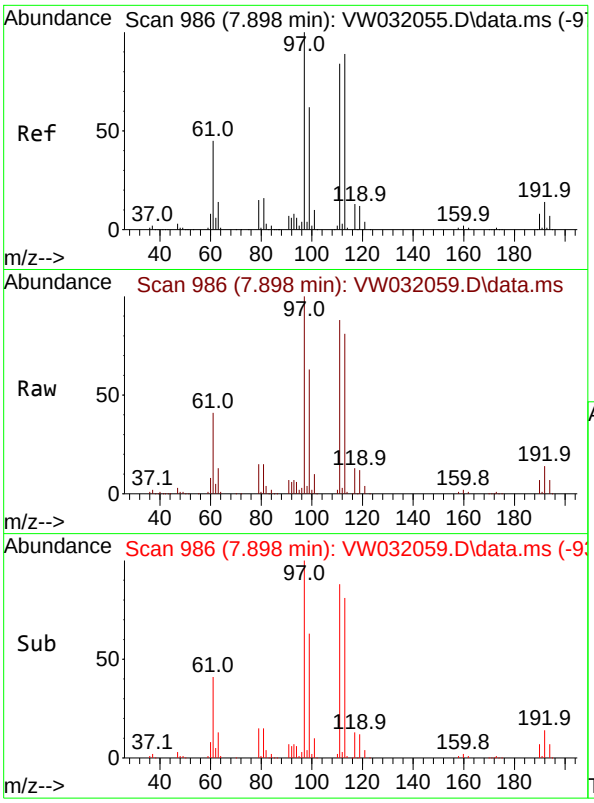


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:114 Resp: 420434

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.0
88	18.4	0.0	33.8



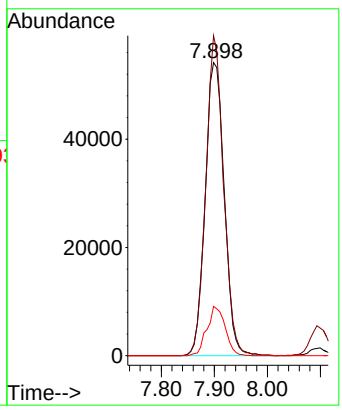


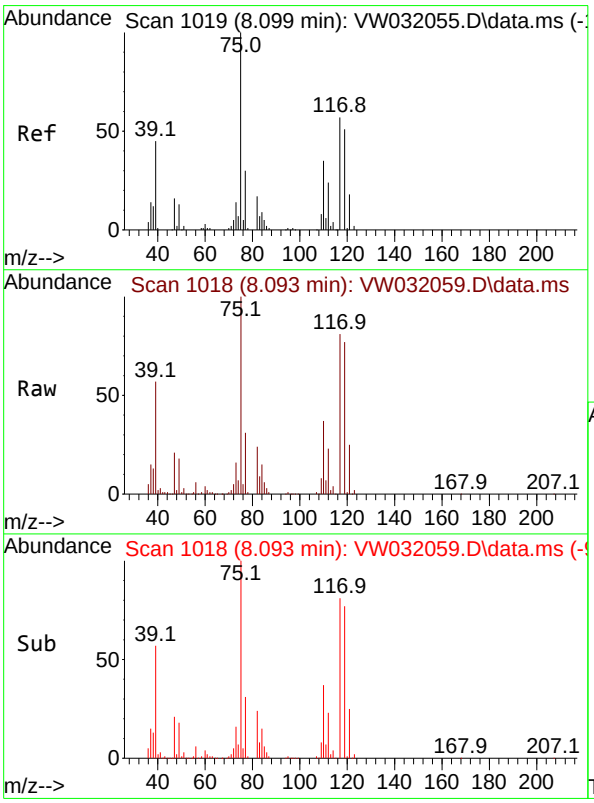
#35
Dibromofluoromethane
Concen: 49.939 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:113 Resp: 135642

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.1	120.1
192	16.1	13.1	19.7

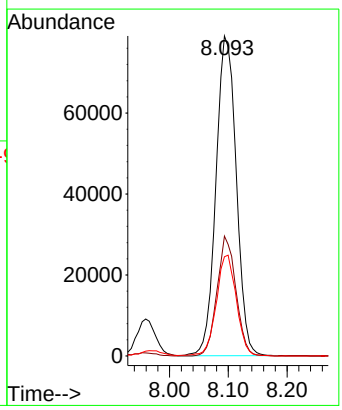


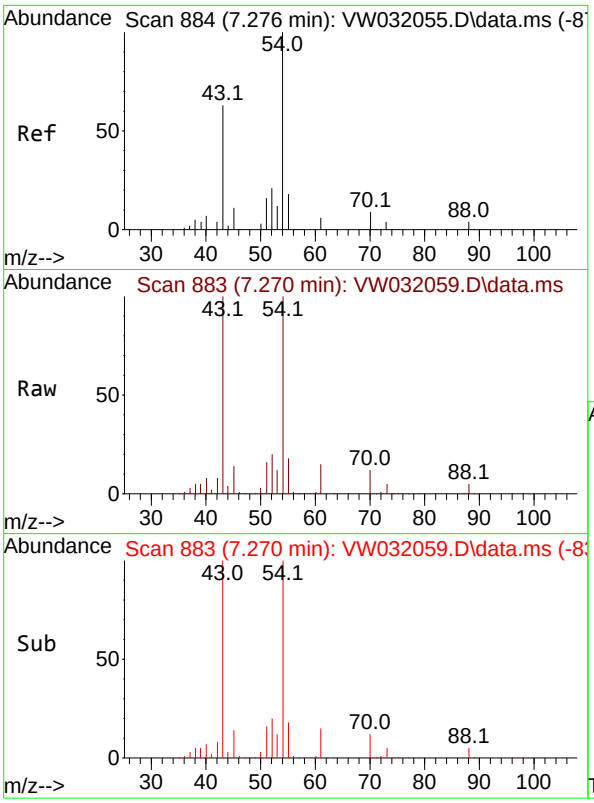


#36
1,1-Dichloropropene
Concen: 49.574 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 189820

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.4	52.2
77	31.3	24.7	37.1



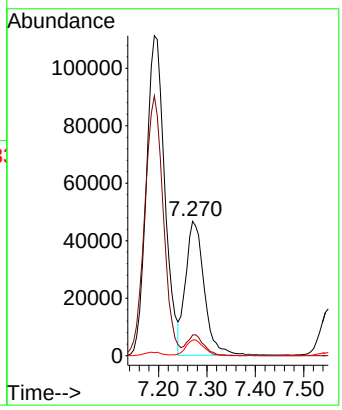


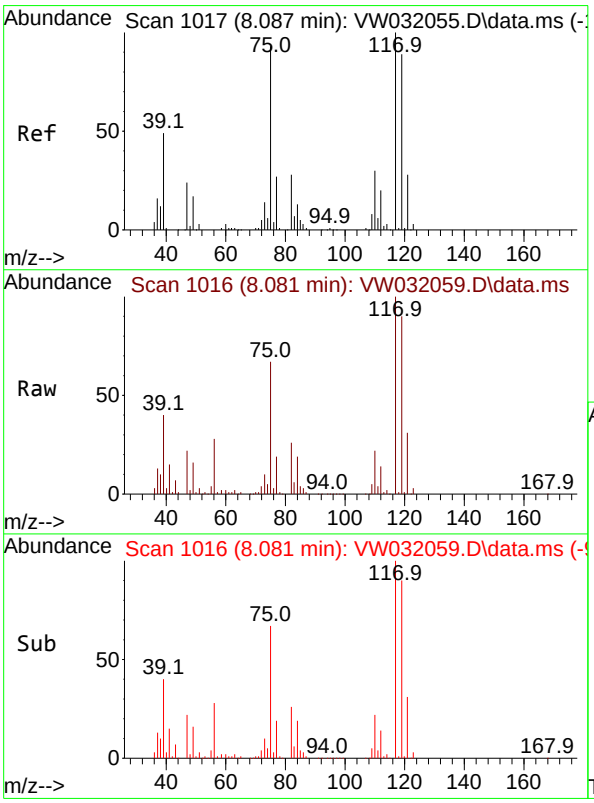
#37
Ethyl Acetate
Concen: 55.214 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 124516

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	11.3	9.4	14.0

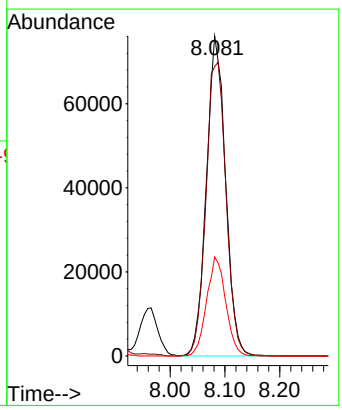


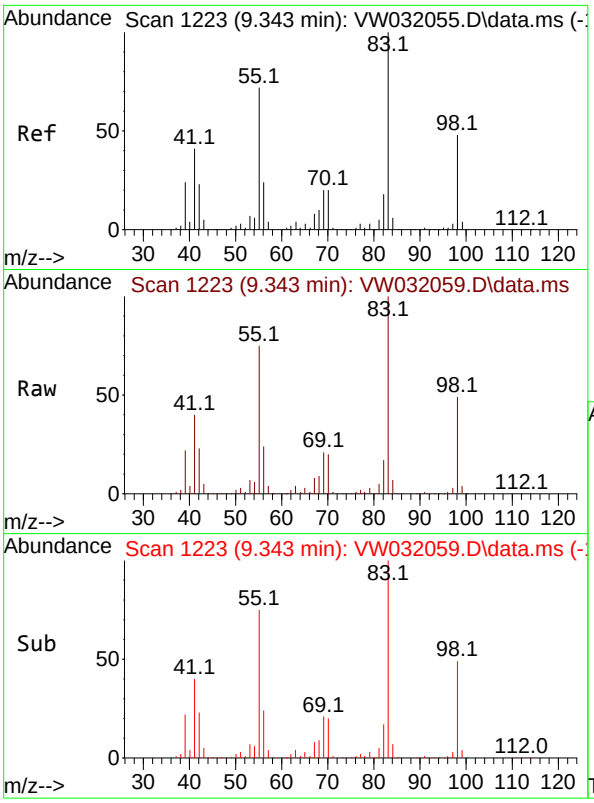


#38
Carbon Tetrachloride
Concen: 50.015 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 184816

Ion	Ratio	Lower	Upper
117	100		
119	90.4	71.4	107.2
121	30.9	22.3	33.5



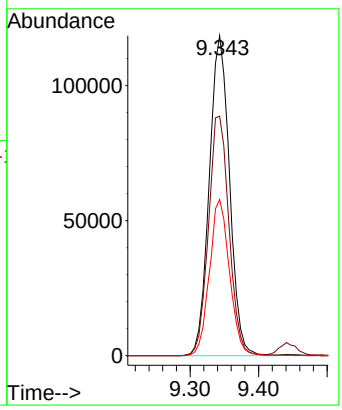


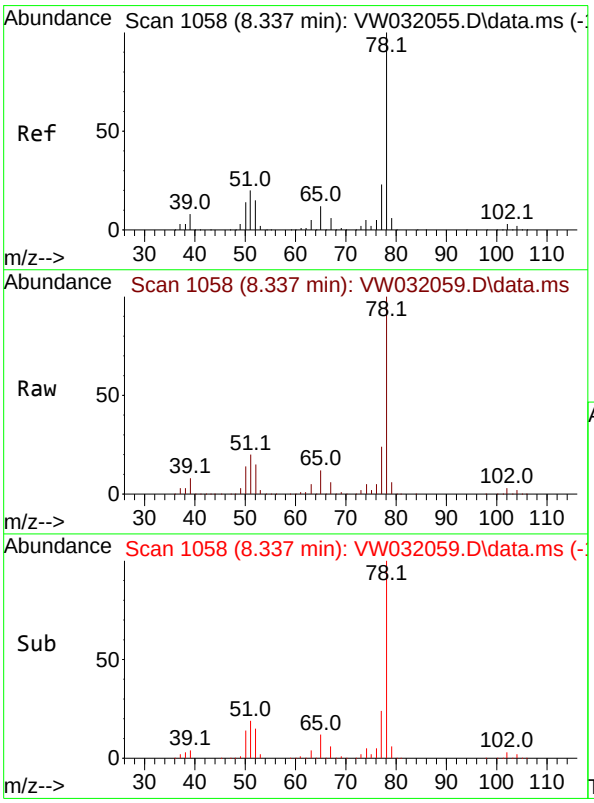
#39
Methylcyclohexane
Concen: 52.181 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 83 Resp: 243533

Ion	Ratio	Lower	Upper
83	100		
55	74.9	57.9	86.9
98	48.8	38.3	57.5

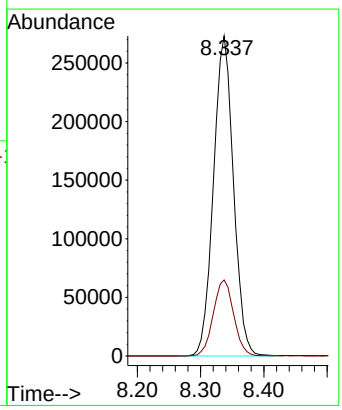


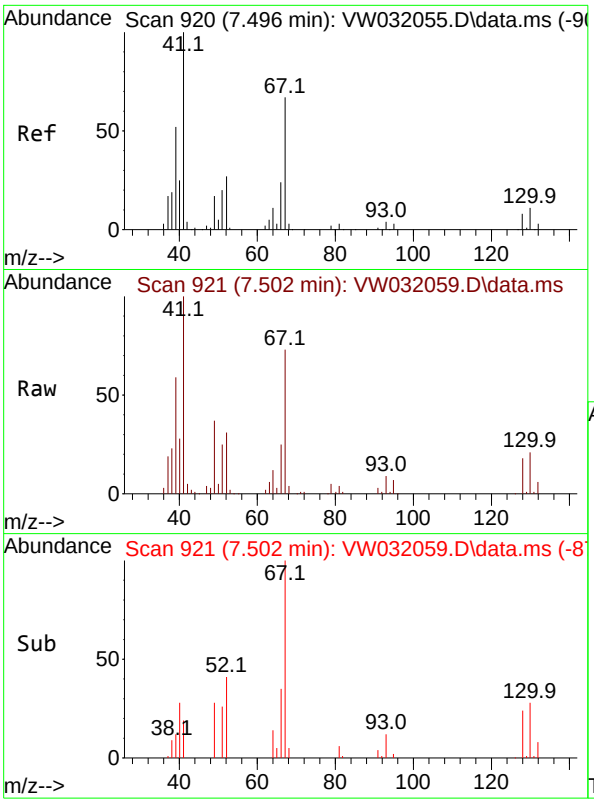


#40
Benzene
Concen: 50.272 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 78 Resp: 598350

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.4	27.6



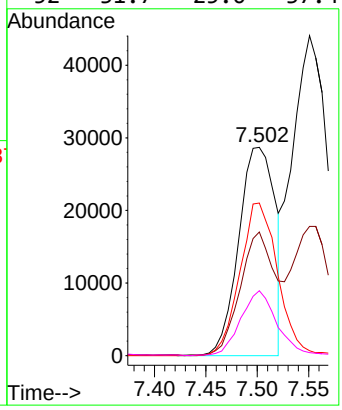


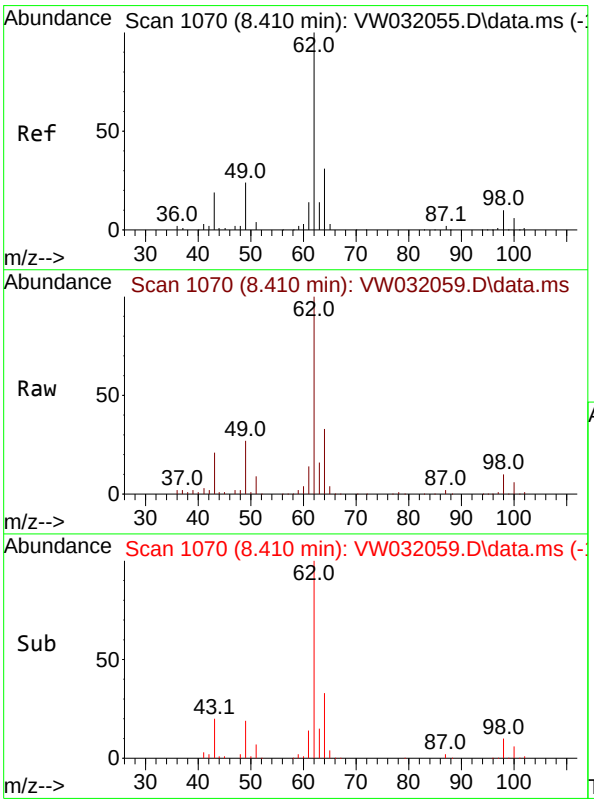
#41
Methacrylonitrile
Concen: 55.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 41 Resp: 70600

Ion	Ratio	Lower	Upper
41	100		
39	60.0	42.6	63.8
67	76.4	61.0	91.4
52	31.7	25.0	37.4

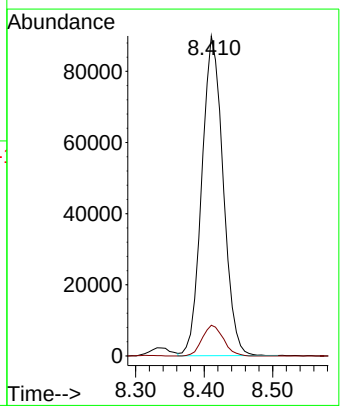


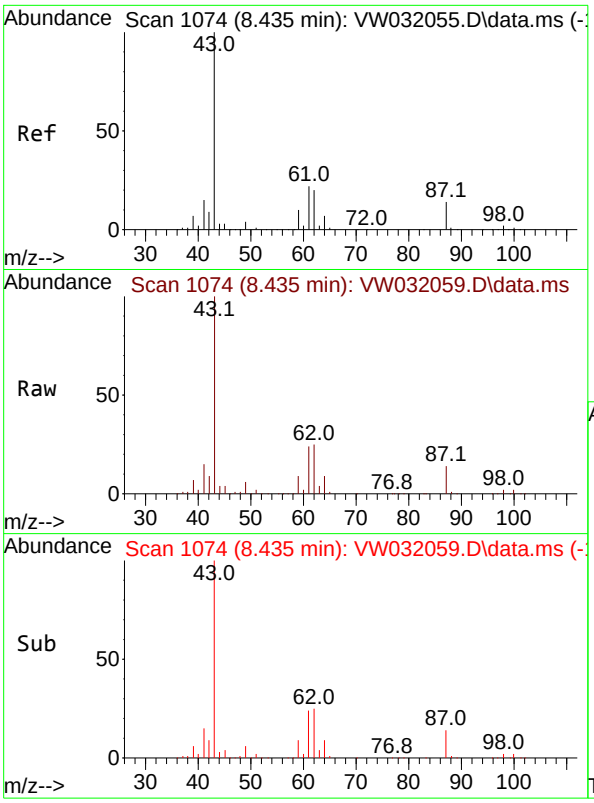


#42
1,2-Dichloroethane
Concen: 51.154 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 194825

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8



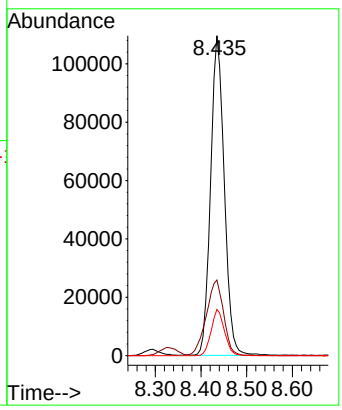


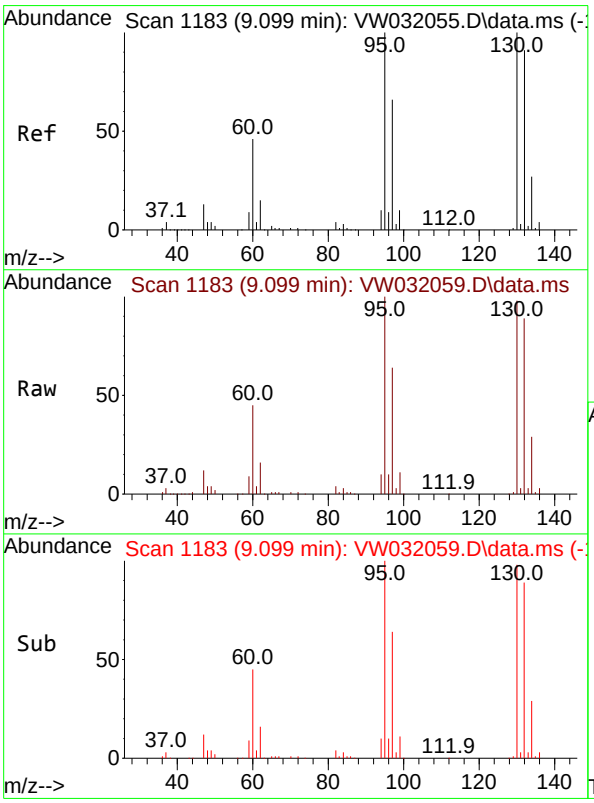
#43
Isopropyl Acetate
Concen: 54.846 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 227561

Ion	Ratio	Lower	Upper
43	100		
61	29.6	23.8	35.8
87	14.1	11.7	17.5

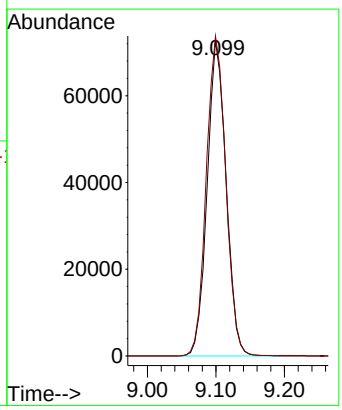


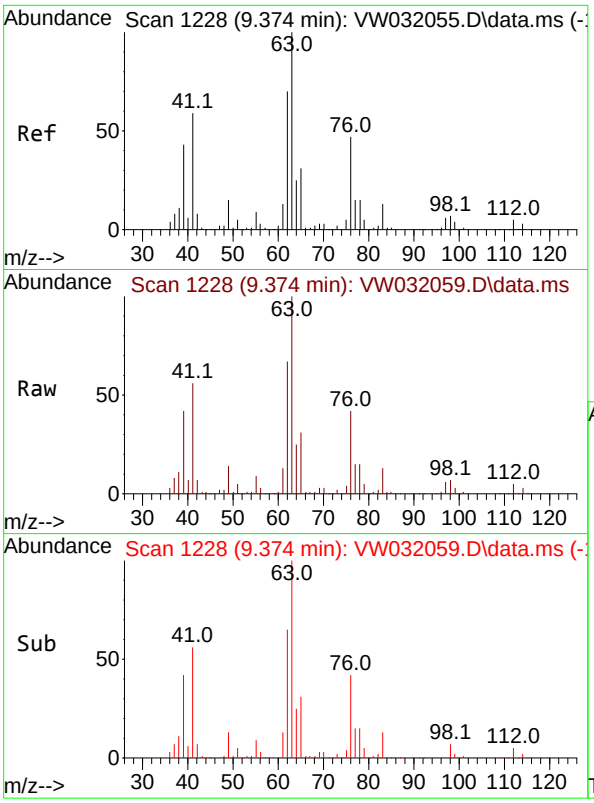


#44
Trichloroethene
Concen: 49.175 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:130 Resp: 139383

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	200.6



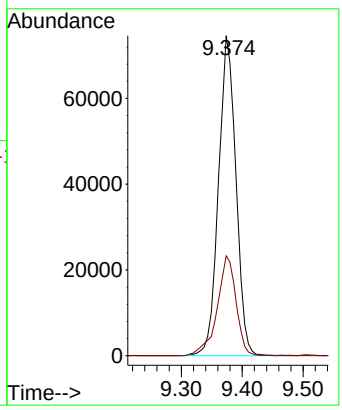


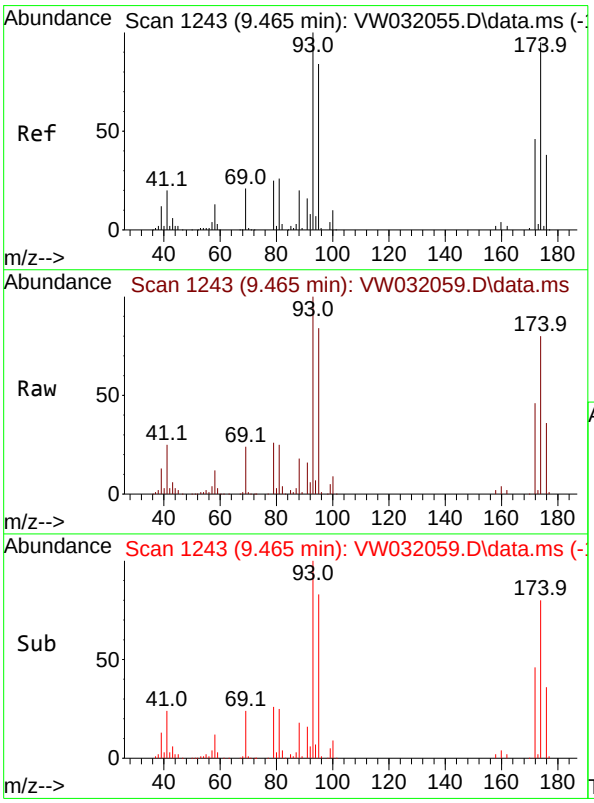
#45
1,2-Dichloropropane
Concen: 51.403 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 63 Resp: 147807

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.6	36.8

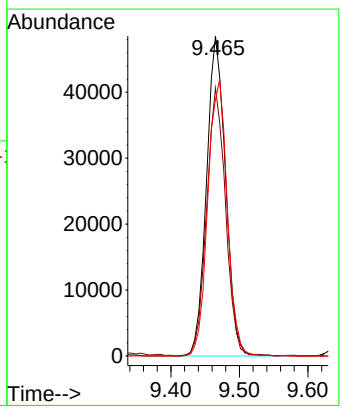


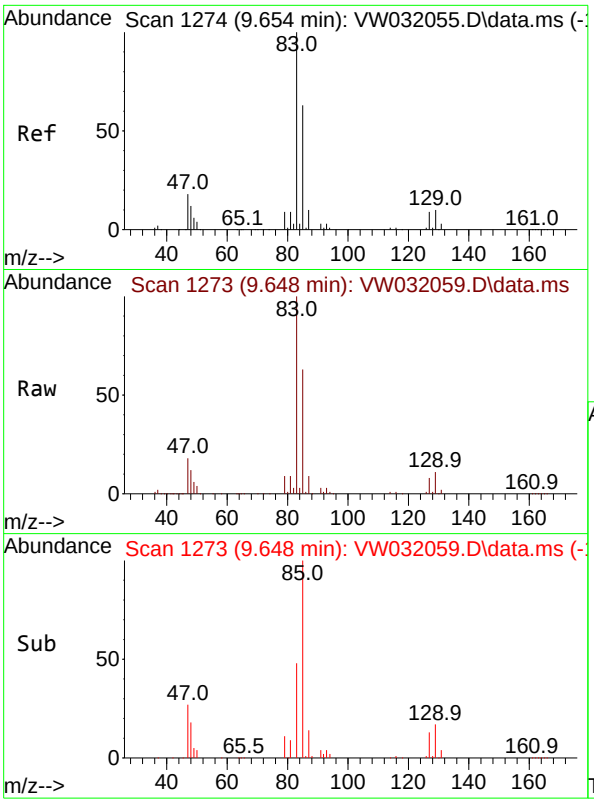


#46
Dibromomethane
Concen: 50.497 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 93 Resp: 93713

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.3	97.9
174	88.0	68.6	102.8



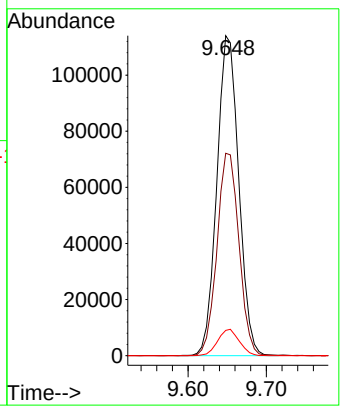


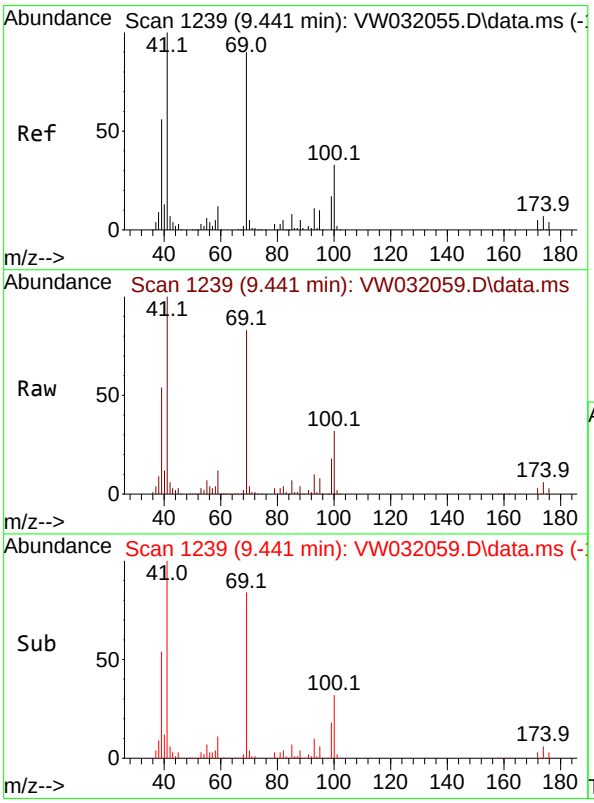
#47
Bromodichloromethane
Concen: 51.775 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 83 Resp: 221409

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.6	75.8
127	7.9	6.9	10.3

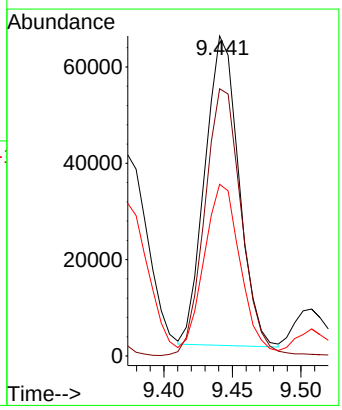


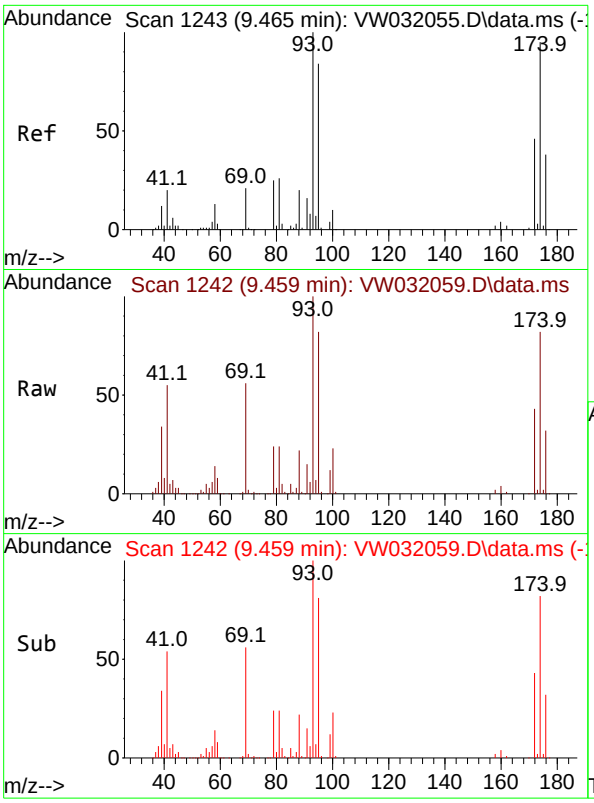


#48
Methyl methacrylate
Concen: 55.048 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 110265

Ion	Ratio	Lower	Upper
41	100		
69	94.5	73.0	109.6
39	56.0	45.0	67.4



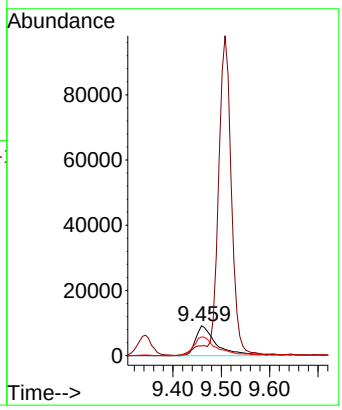


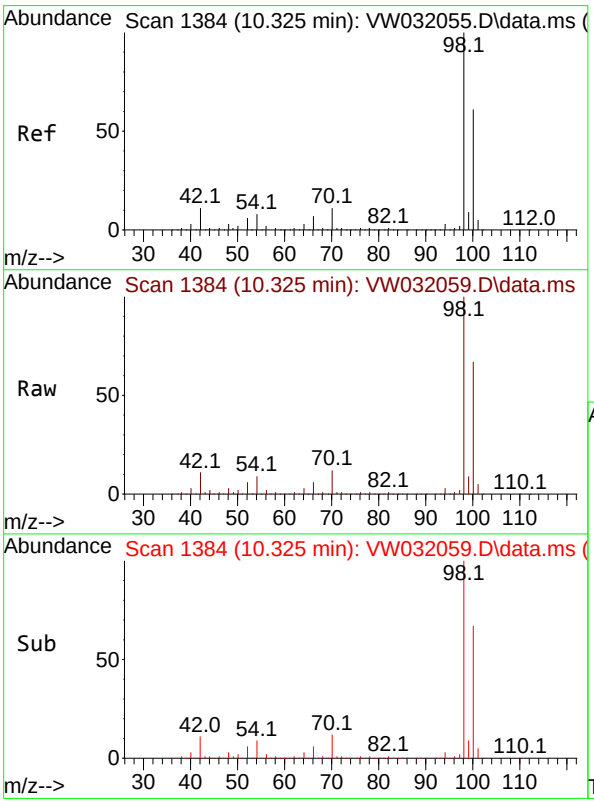
#49
1,4-Dioxane
Concen: 1155.151 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 88 Resp: 27718

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	70.8	60.4	90.6

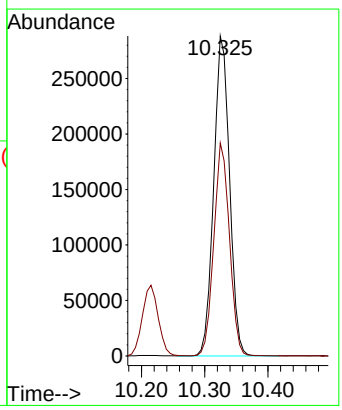


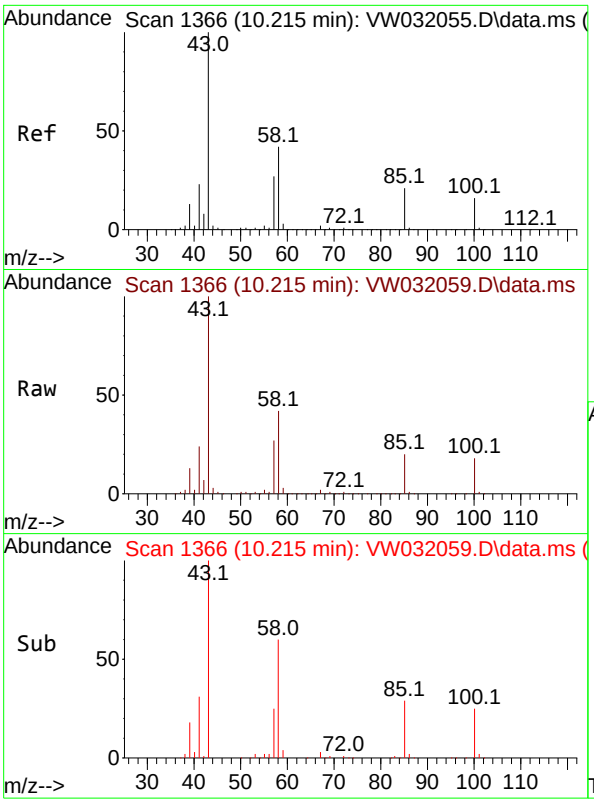


#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 98 Resp: 499377

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.1	76.7



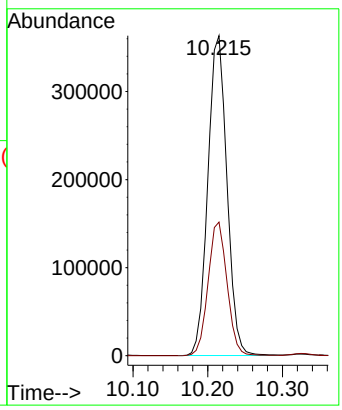


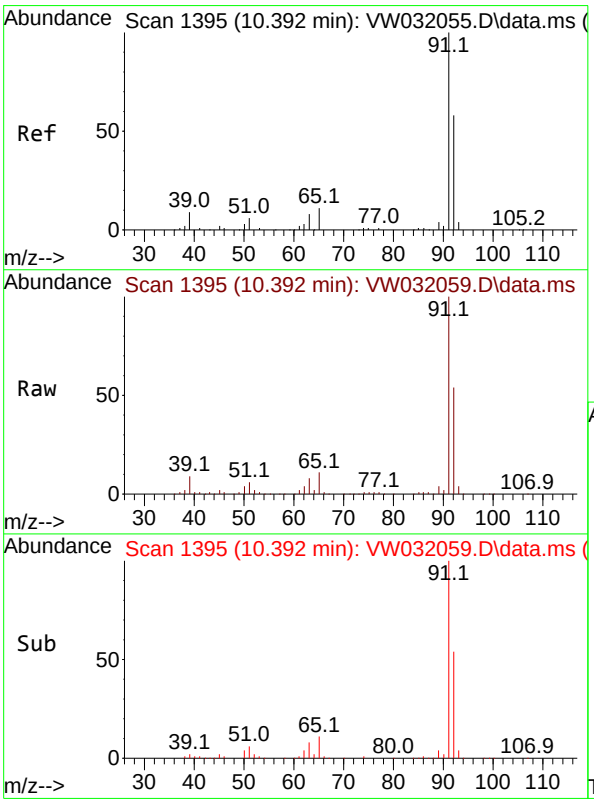
#51
4-Methyl-2-Pentanone
Concen: 275.585 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 645391

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.1	49.7

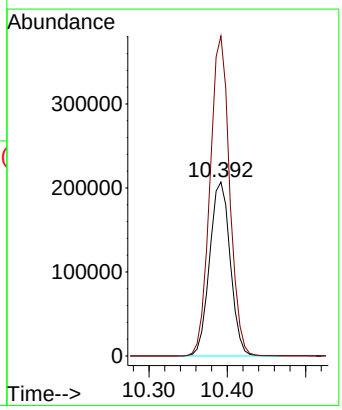


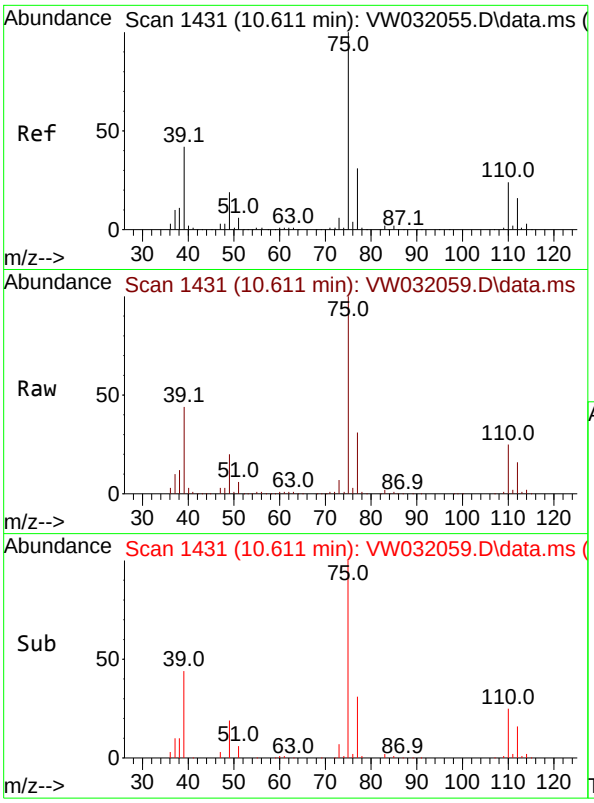


#52
Toluene
Concen: 50.410 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 92 Resp: 377919

Ion	Ratio	Lower	Upper
92	100		
91	175.7	136.3	204.5



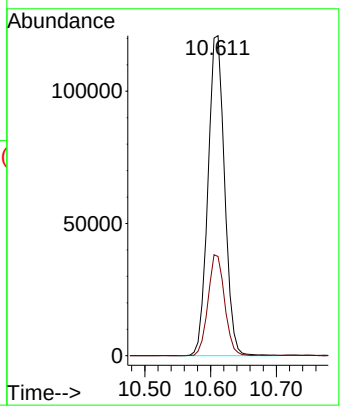


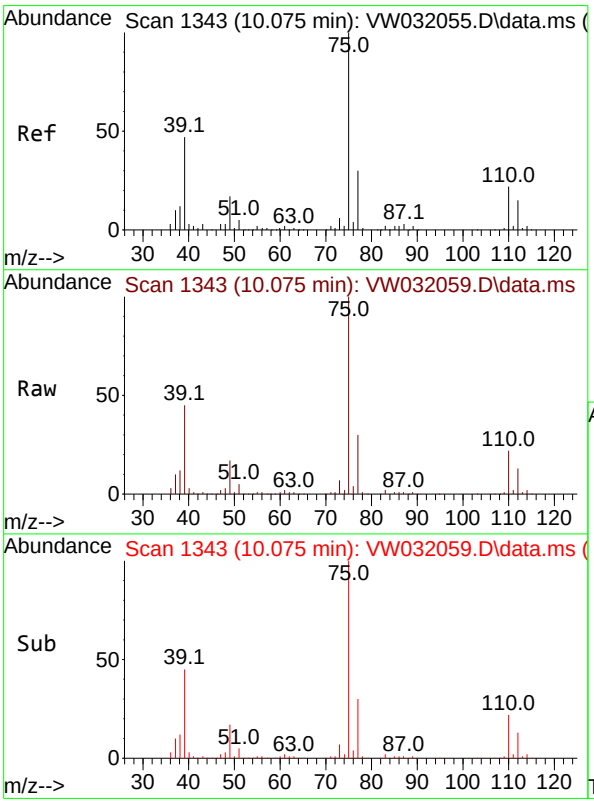
#53
t-1,3-Dichloropropene
Concen: 53.108 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 75 Resp: 212772

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6

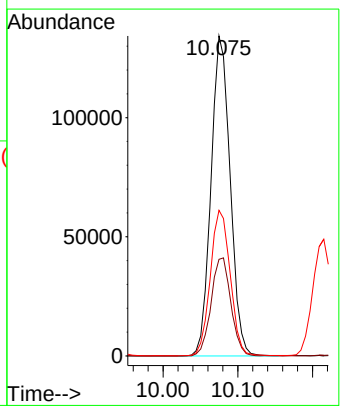


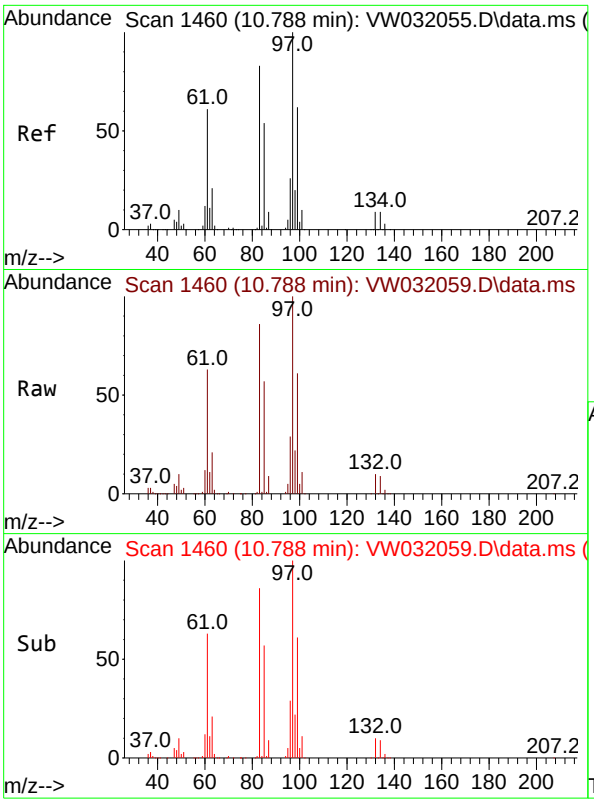


#54
cis-1,3-Dichloropropene
Concen: 52.577 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 238970

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.0	36.0
39	45.4	37.8	56.8



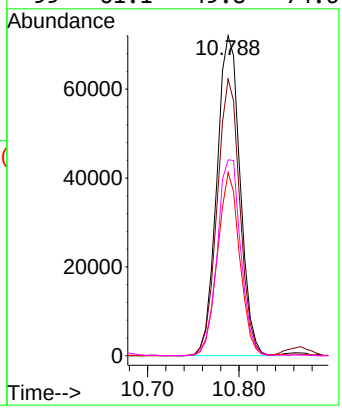


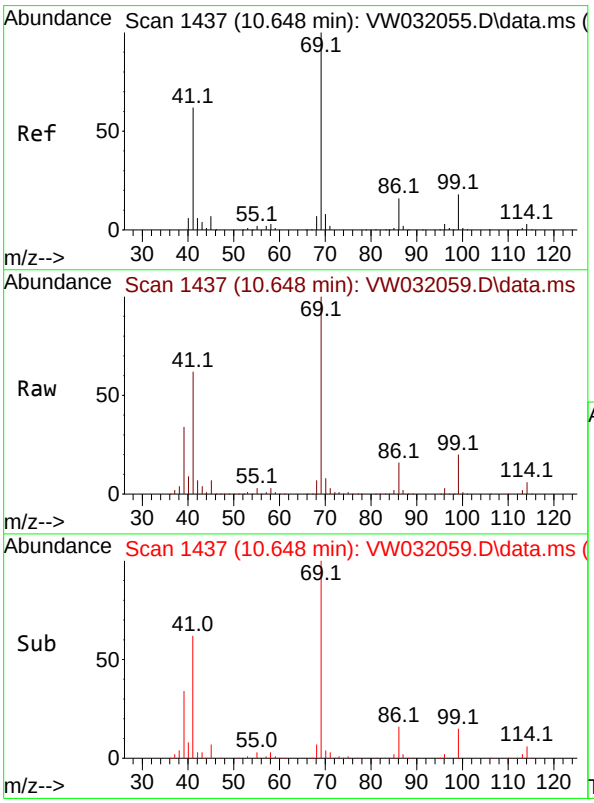
#55
1,1,2-Trichloroethane
Concen: 51.716 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 97 Resp: 127536

Ion	Ratio	Lower	Upper
97	100		
83	86.4	66.4	99.6
85	57.2	43.1	64.7
99	61.1	49.8	74.6

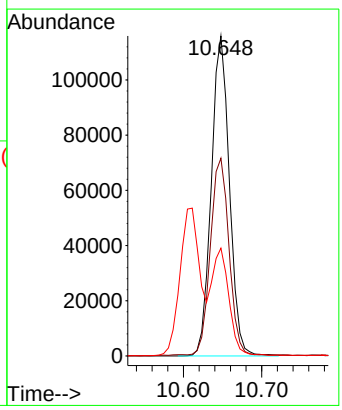


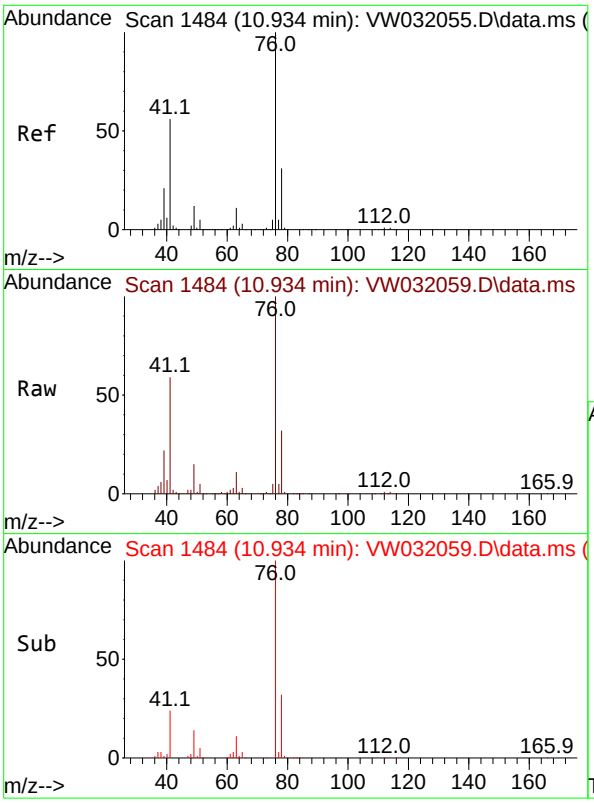


#56
Ethyl methacrylate
Concen: 56.374 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 69 Resp: 186039

Ion	Ratio	Lower	Upper
69	100		
41	64.4	51.2	76.8
39	31.4	25.4	38.0



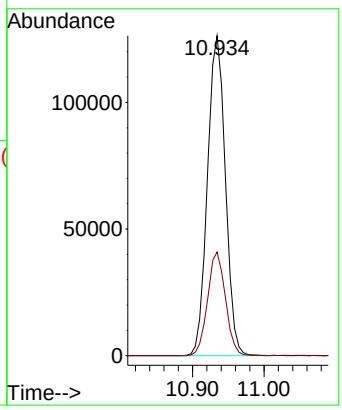


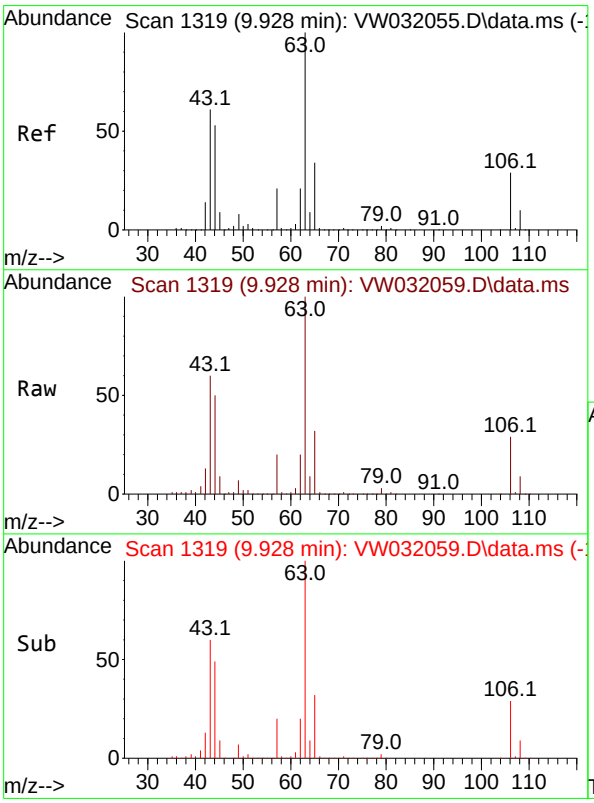
#57
1,3-Dichloropropane
Concen: 51.186 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 76 Resp: 220027

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.6

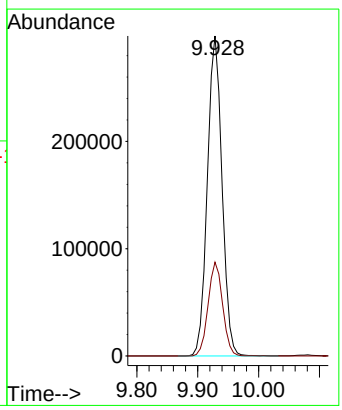


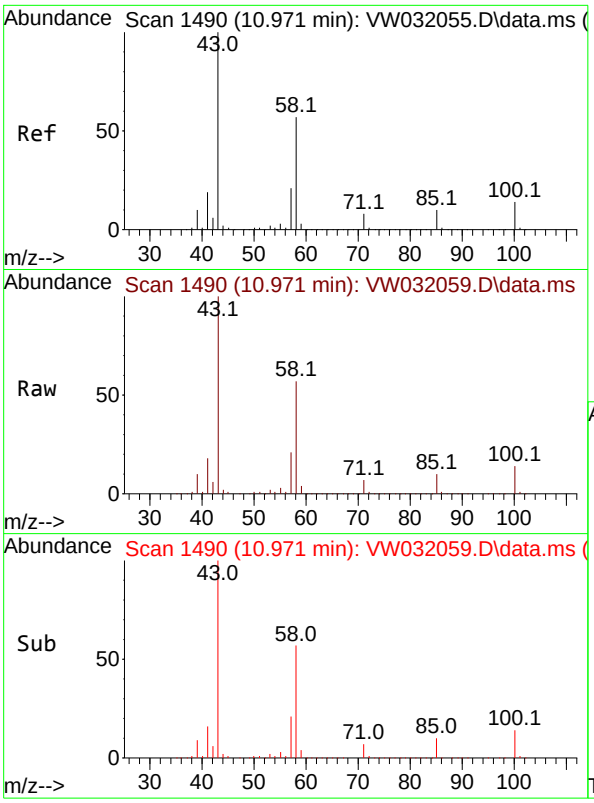


#58
2-Chloroethyl Vinyl ether
Concen: 272.893 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 498131

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3



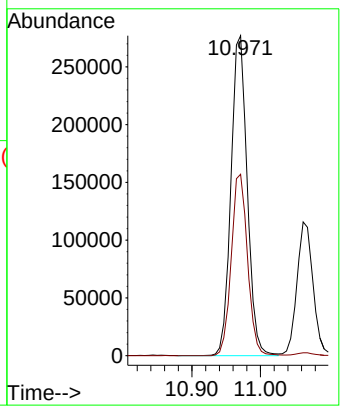


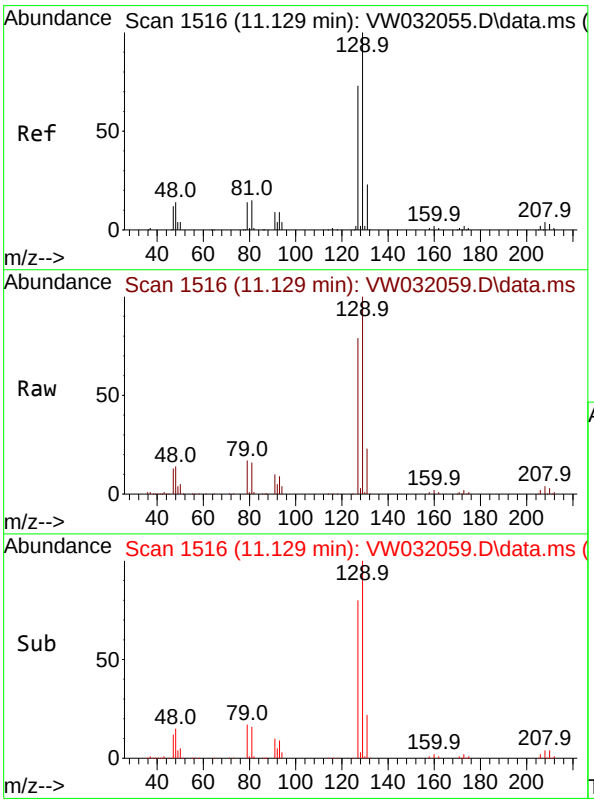
#59
2-Hexanone
Concen: 281.817 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 457083

Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.3	85.0

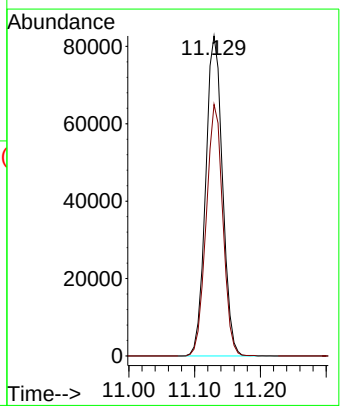


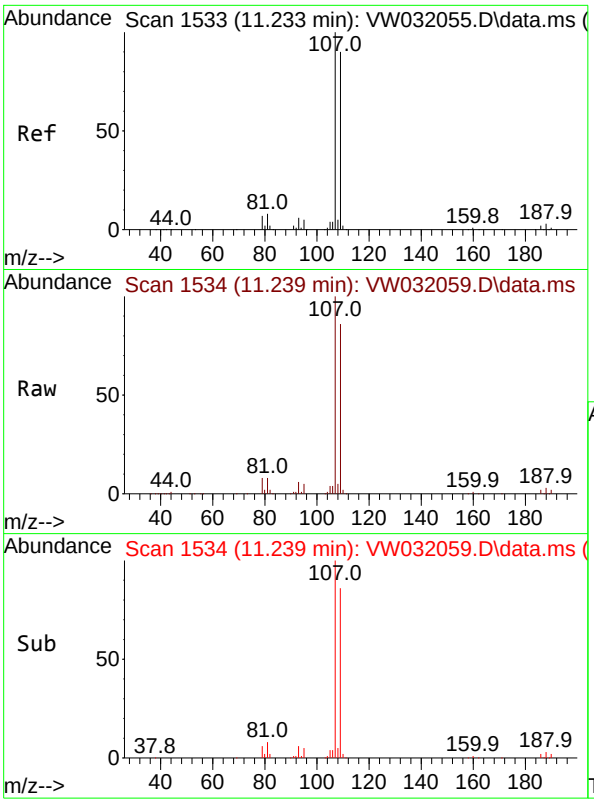


#60
Dibromochloromethane
Concen: 52.276 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:129 Resp: 147264

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.0	116.9



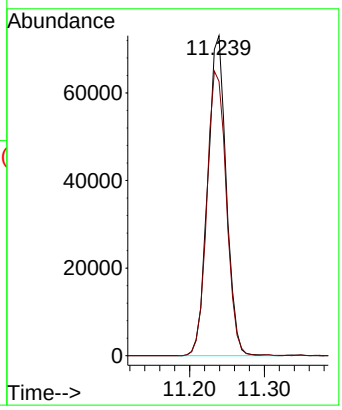


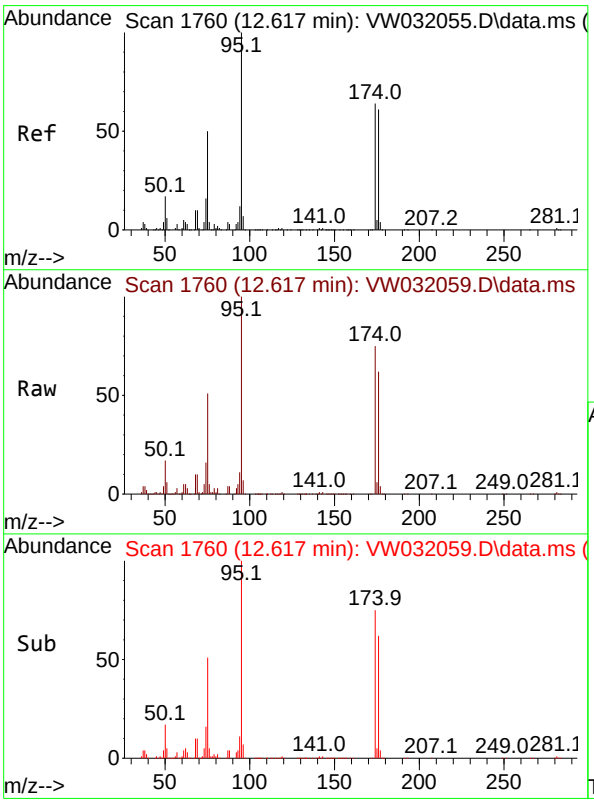
#61
1,2-Dibromoethane
Concen: 52.603 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:107 Resp: 126064

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.2	111.4

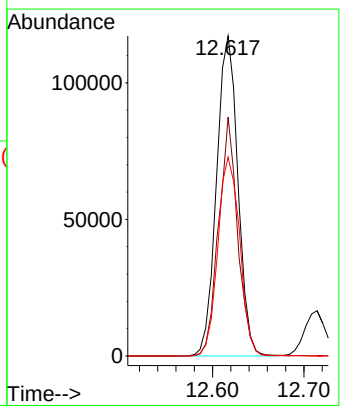


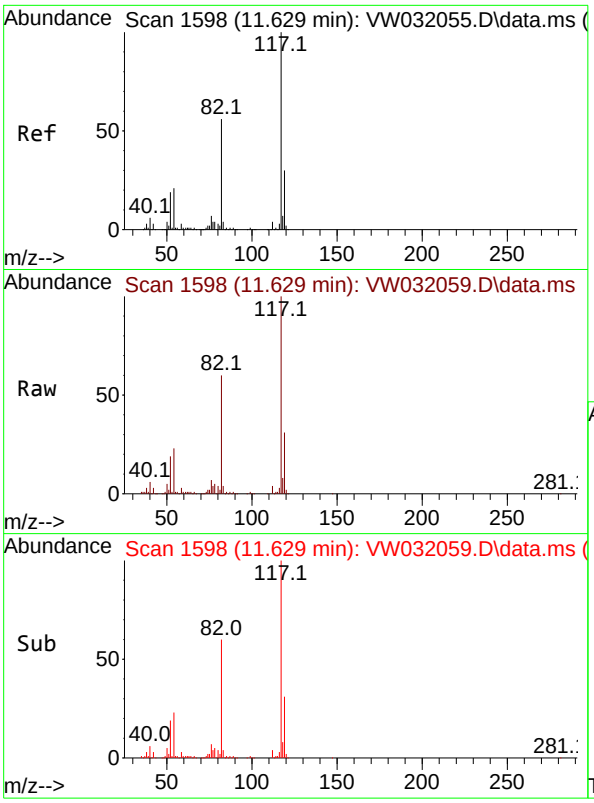


#62
4-Bromofluorobenzene
Concen: 51.460 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 95 Resp: 190514

Ion	Ratio	Lower	Upper
95	100		
174	66.7	0.0	129.0
176	63.5	0.0	124.6



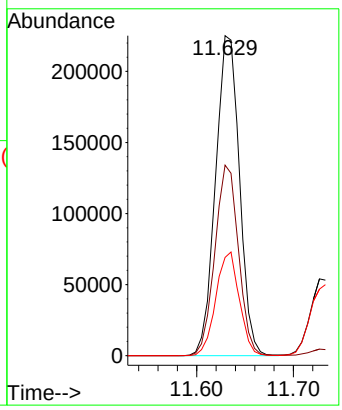


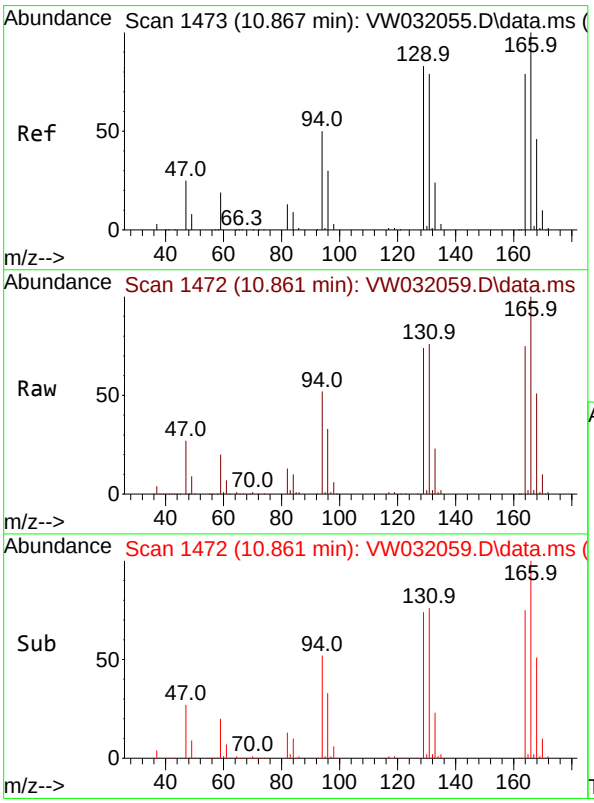
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:117 Resp: 386856

Ion	Ratio	Lower	Upper
117	100		
82	59.5	45.0	67.4
119	30.7	24.2	36.4

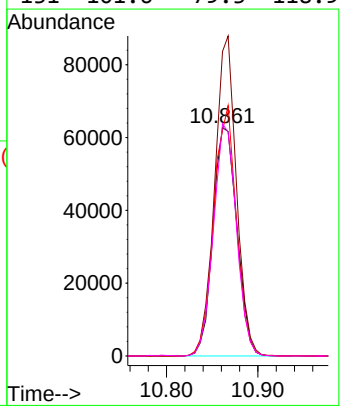


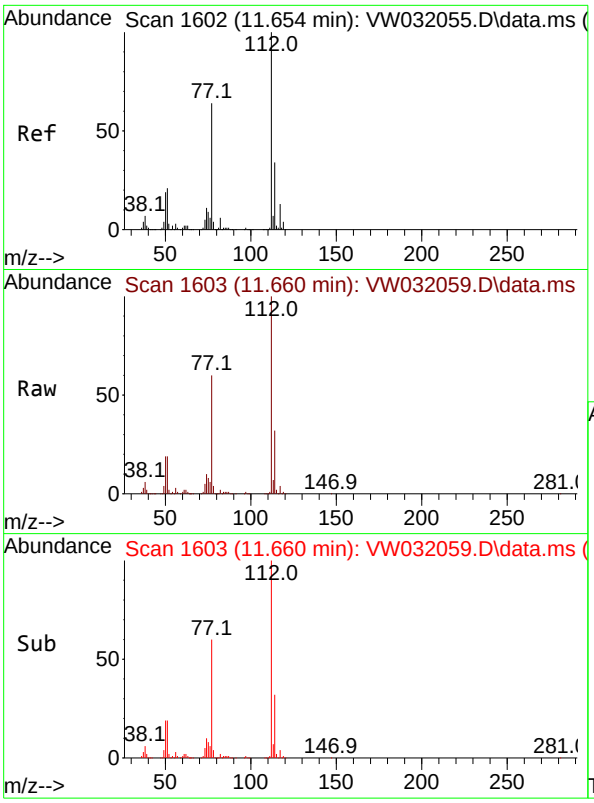


#64
Tetrachloroethene
Concen: 51.245 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:164 Resp: 114507

Ion	Ratio	Lower	Upper
164	100		
166	133.3	100.9	151.3
129	98.7	83.6	125.4
131	101.6	79.3	118.9



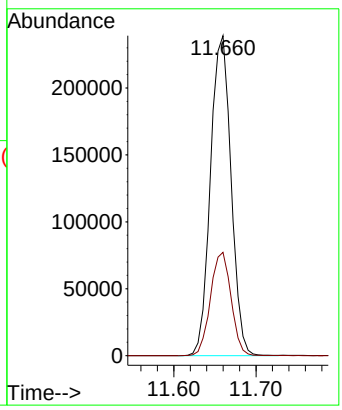


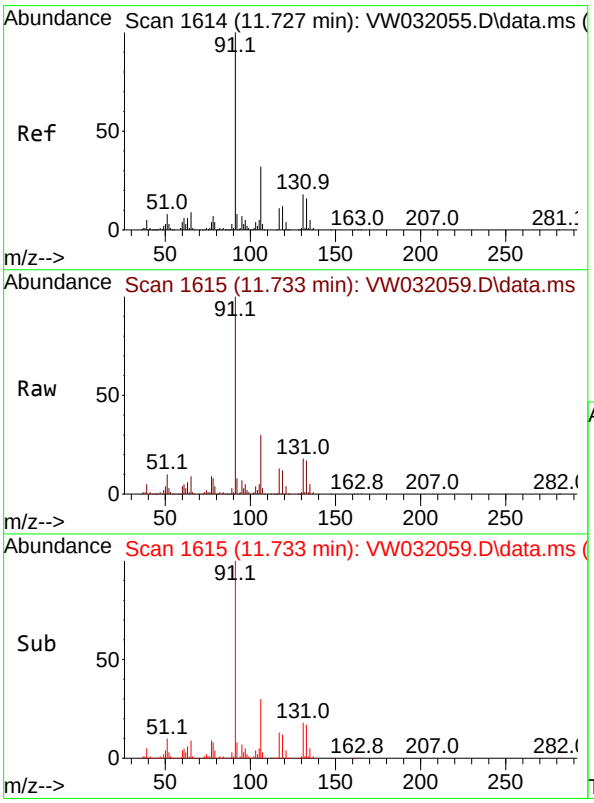
#65
Chlorobenzene
Concen: 49.461 ug/l
RT: 11.660 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:112 Resp: 416485

Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.9	40.3

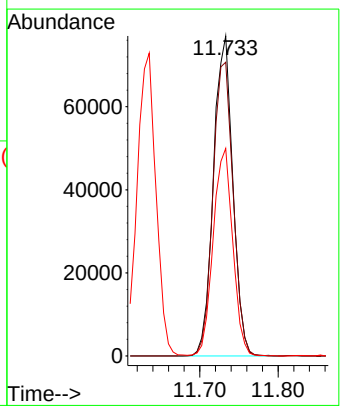


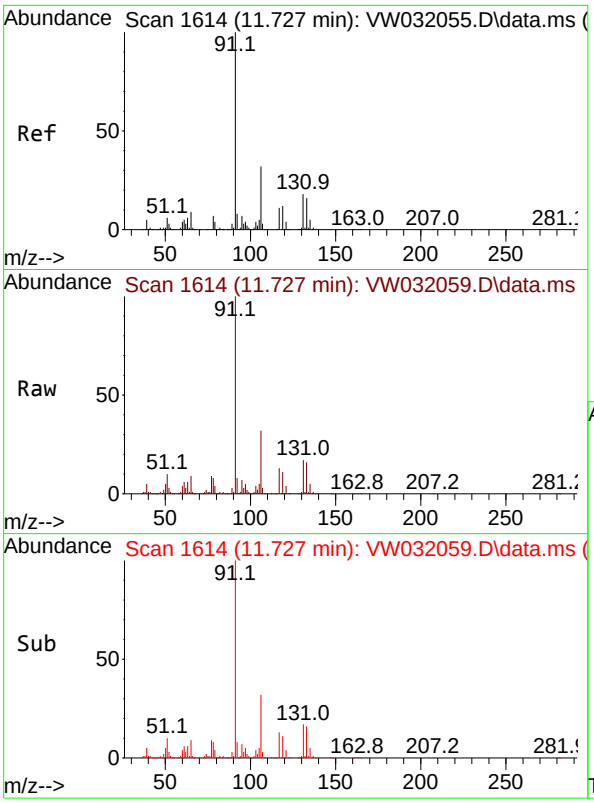


#66
1,1,1,2-Tetrachloroethane
Concen: 50.324 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:131 Resp: 132212

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	142.0
119	65.7	34.5	103.5



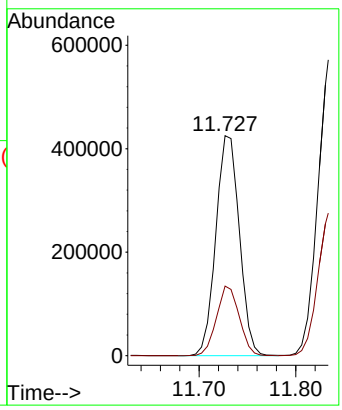


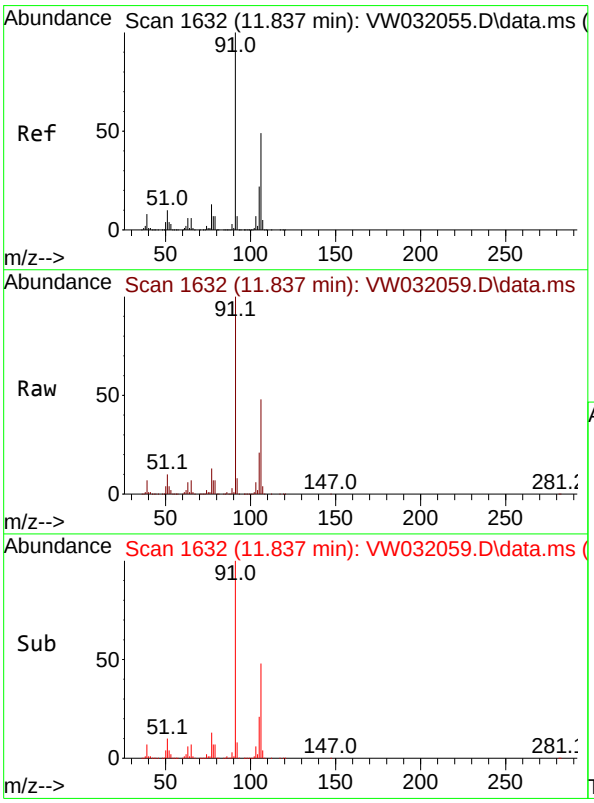
#67
Ethyl Benzene
Concen: 50.253 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 91 Resp: 716757

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.4	38.0

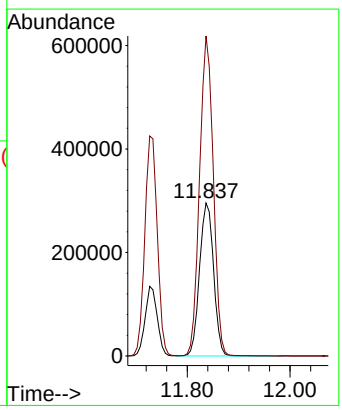


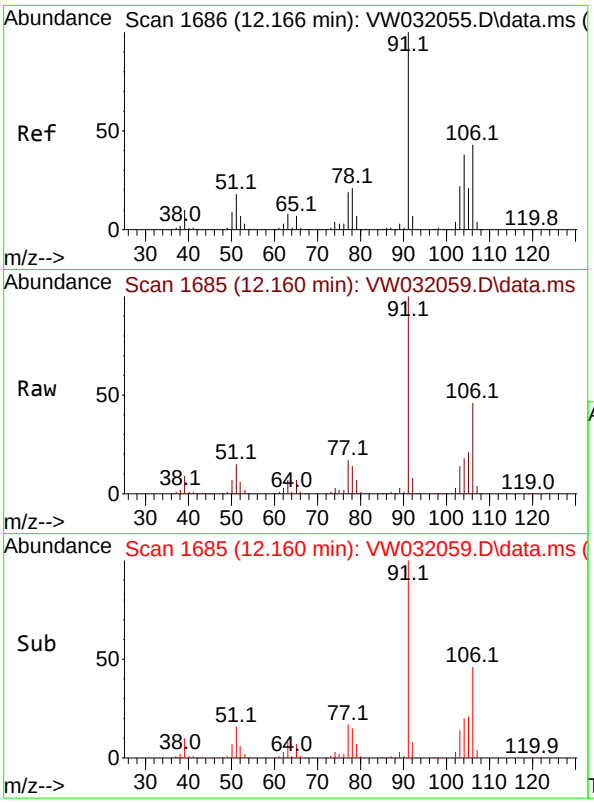


#68
m/p-Xylenes
Concen: 101.607 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 559216

Ion	Ratio	Lower	Upper
106	100		
91	204.9	162.2	243.2



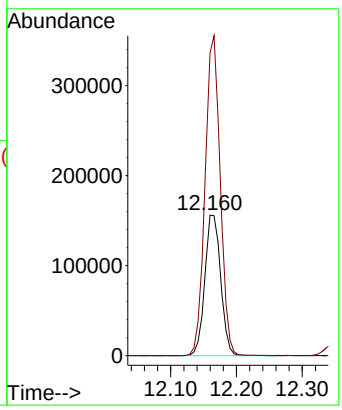


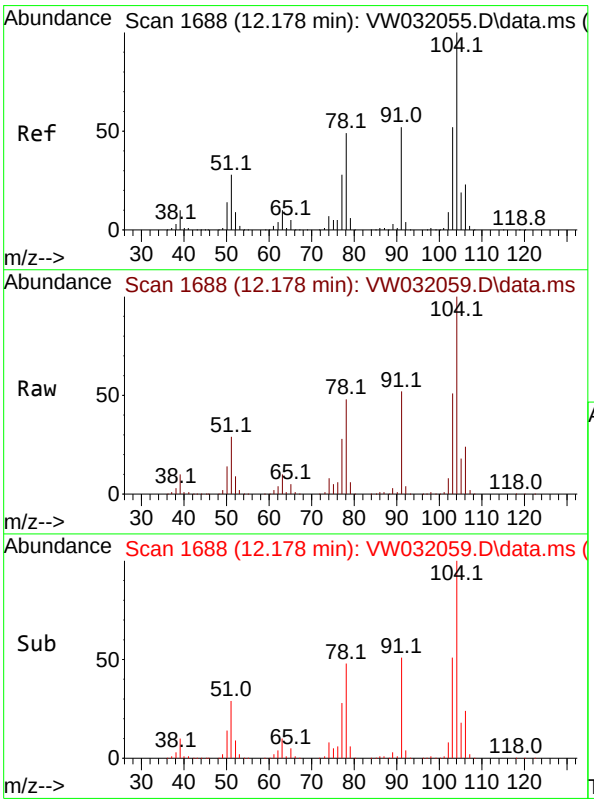
#69
o-Xylene
Concen: 51.416 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:106 Resp: 261548

Ion	Ratio	Lower	Upper
106	100		
91	218.6	110.8	332.3

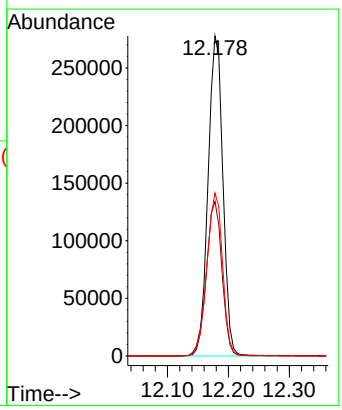


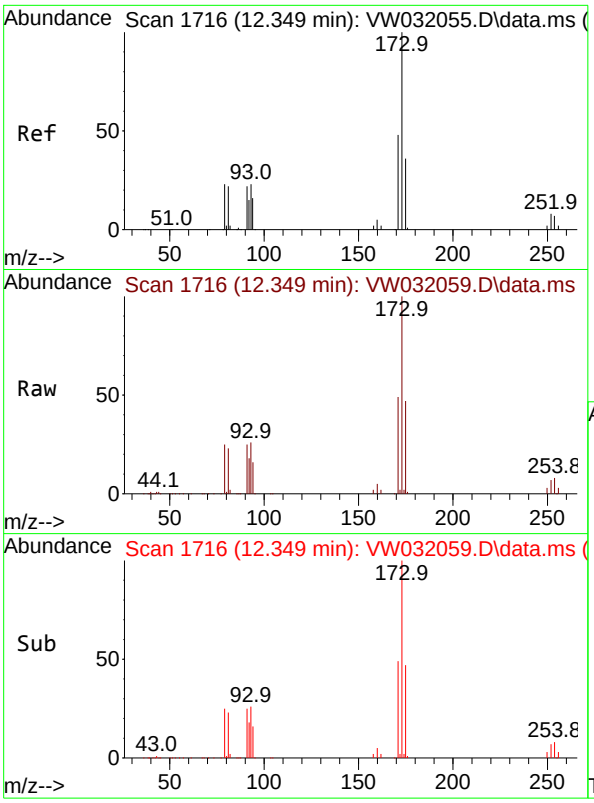


#70
Styrene
Concen: 51.833 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:104 Resp: 468335

Ion	Ratio	Lower	Upper
104	100		
78	51.2	41.2	61.8
103	53.9	43.8	65.8



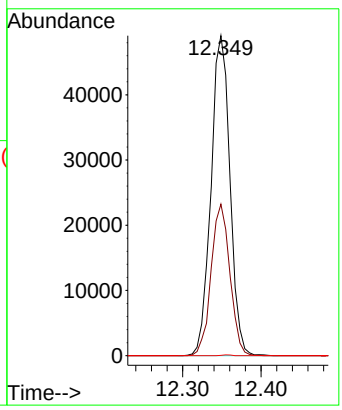


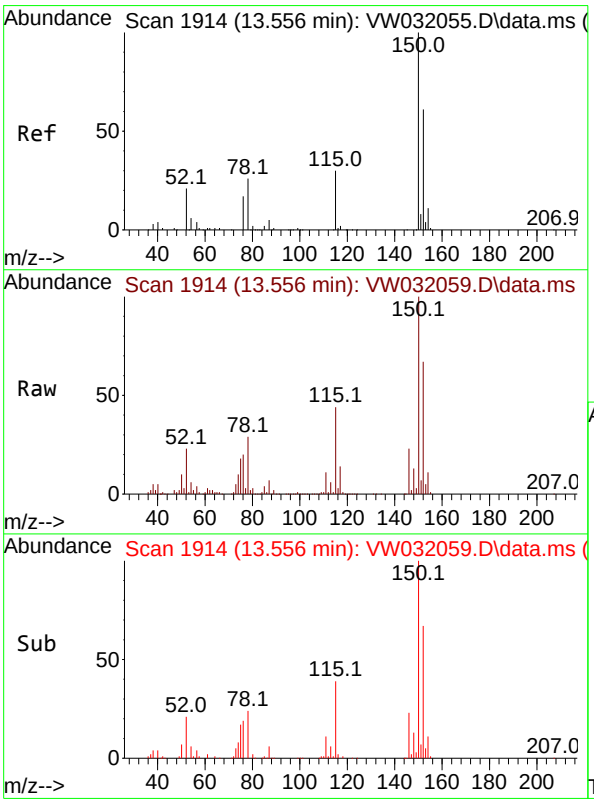
#71
Bromoform
Concen: 54.945 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:173 Resp: 82571

Ion	Ratio	Lower	Upper
173	100		
175	46.9	22.9	68.7
254	0.1	0.0	0.0#

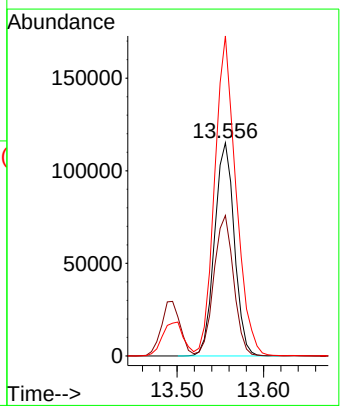


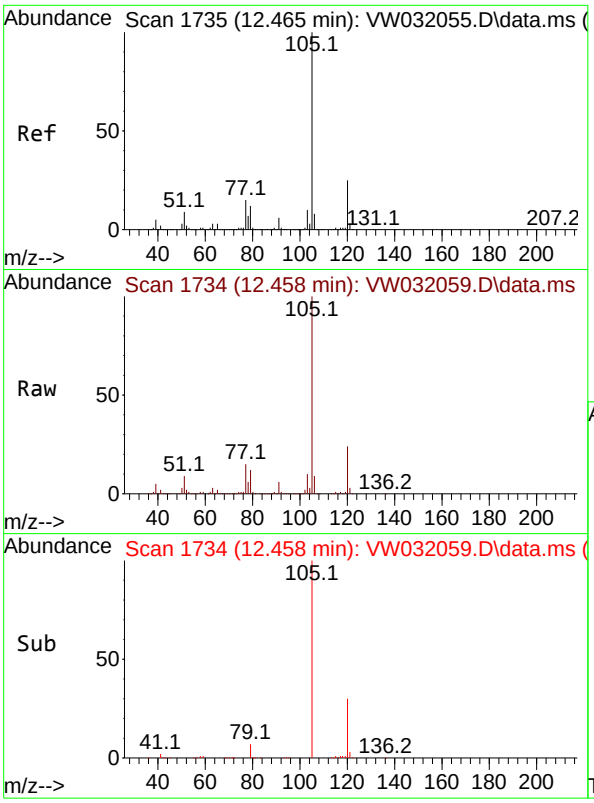


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:152 Resp: 182577

Ion	Ratio	Lower	Upper
152	100		
115	65.8	32.6	97.8
150	162.0	0.0	359.4



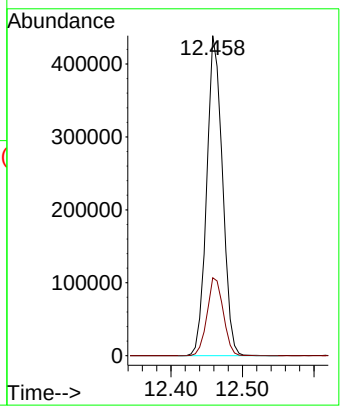


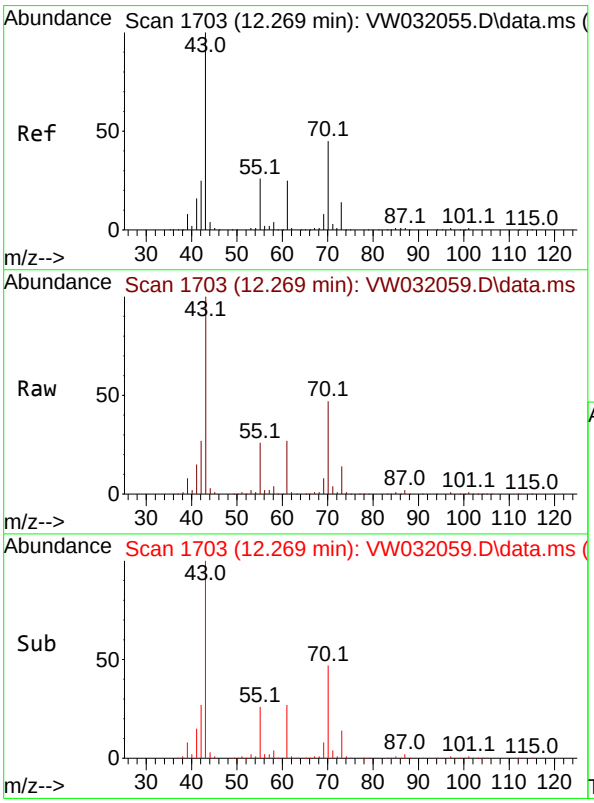
#73
Isopropylbenzene
Concen: 52.571 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:105 Resp: 670779

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

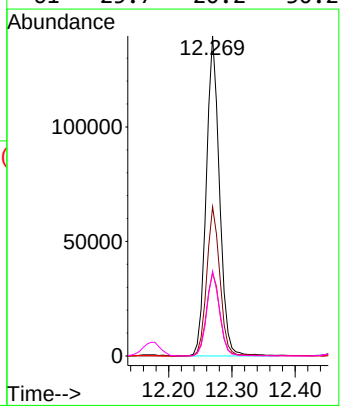


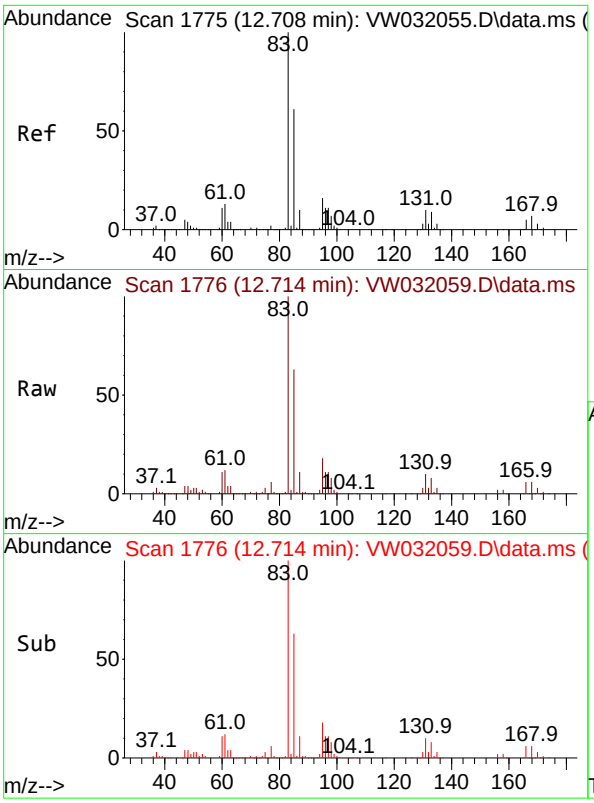


#74
N-amyl acetate
Concen: 55.682 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 203837

Ion	Ratio	Lower	Upper
43	100		
70	46.3	37.0	55.4
55	26.5	21.1	31.7
61	25.7	20.2	30.2



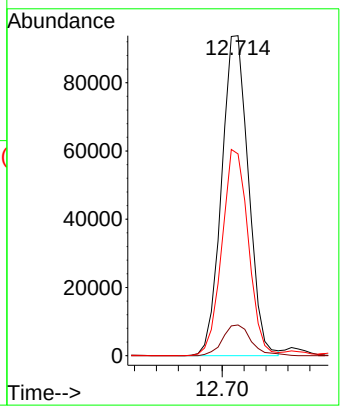


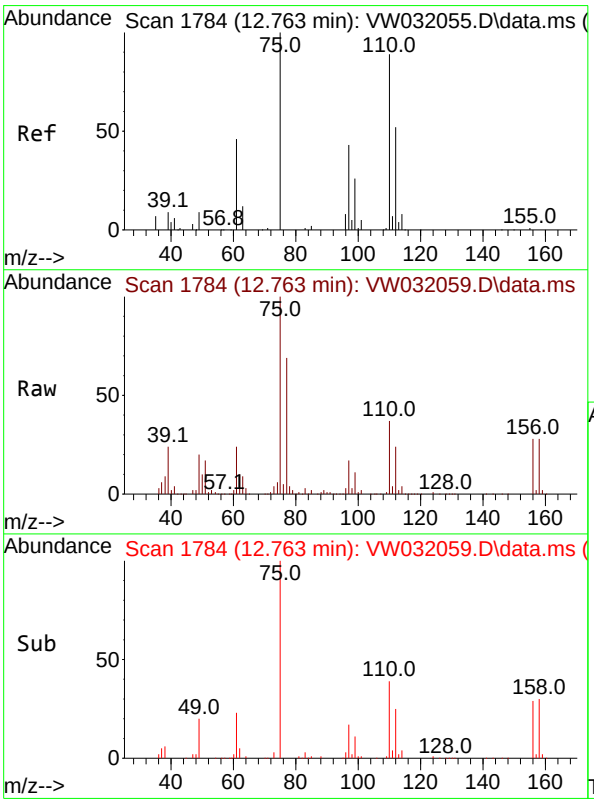
#75
1,1,2,2-Tetrachloroethane
Concen: 52.514 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 83 Resp: 159092

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	63.5	32.2	96.6

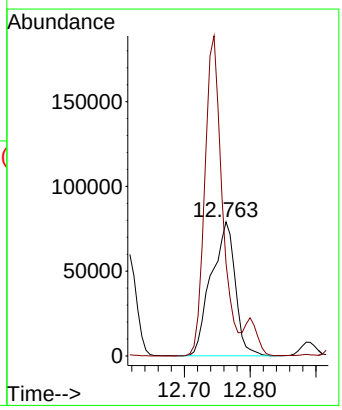


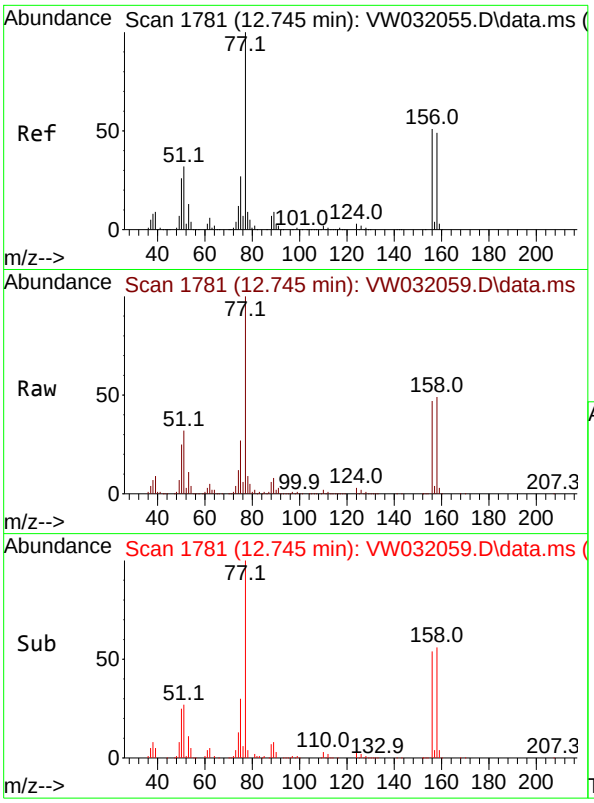


#76
1,2,3-Trichloropropane
Concen: 81.178 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 201159

Ion	Ratio	Lower	Upper
75	100		
77	174.4	123.5	370.5



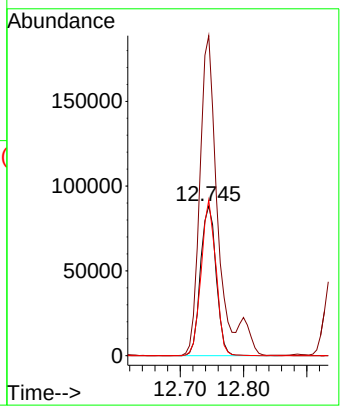


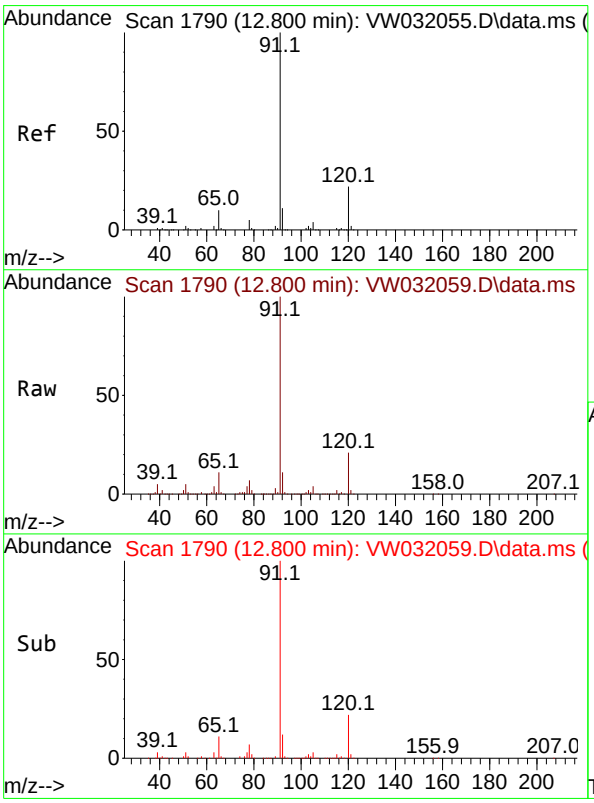
#77
Bromobenzene
Concen: 49.886 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:156 Resp: 152028

Ion	Ratio	Lower	Upper
156	100		
77	230.8	108.7	326.3
158	98.3	48.3	144.9

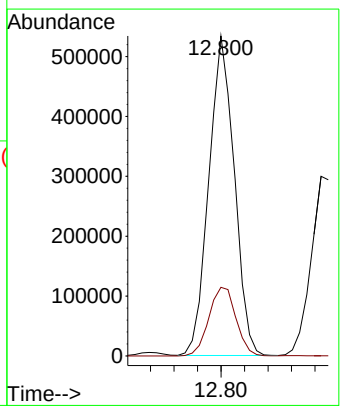


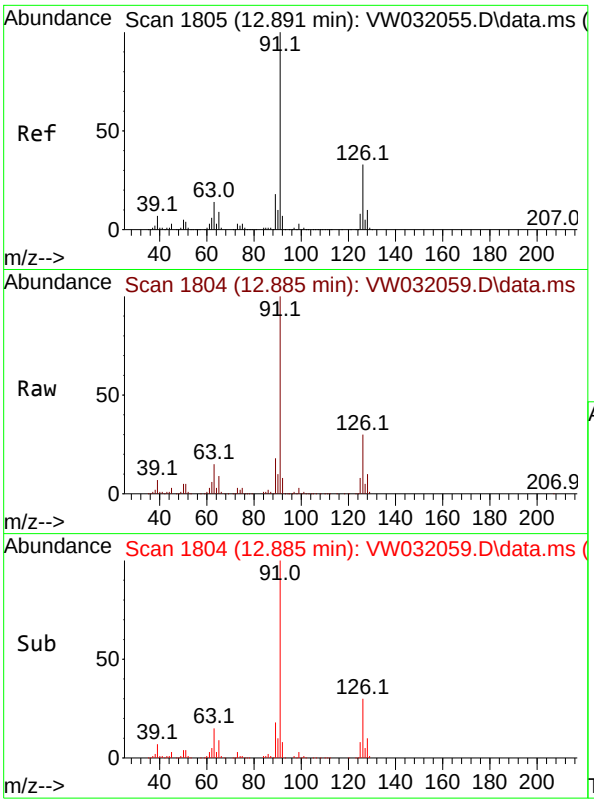


#78
n-propylbenzene
Concen: 51.148 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 803474

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3



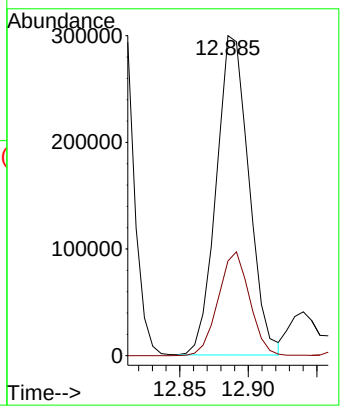


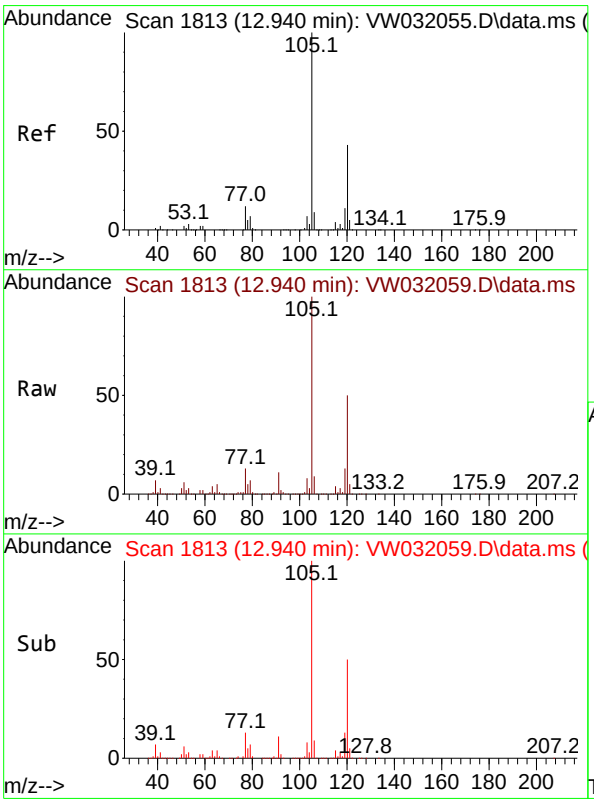
#79
2-Chlorotoluene
Concen: 51.114 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 91 Resp: 495562

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.9	47.7

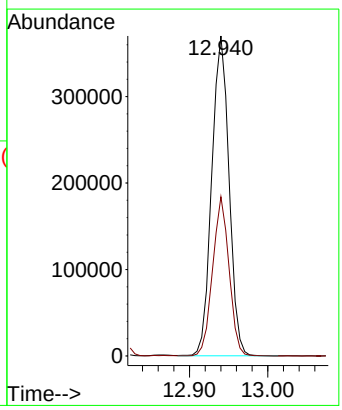


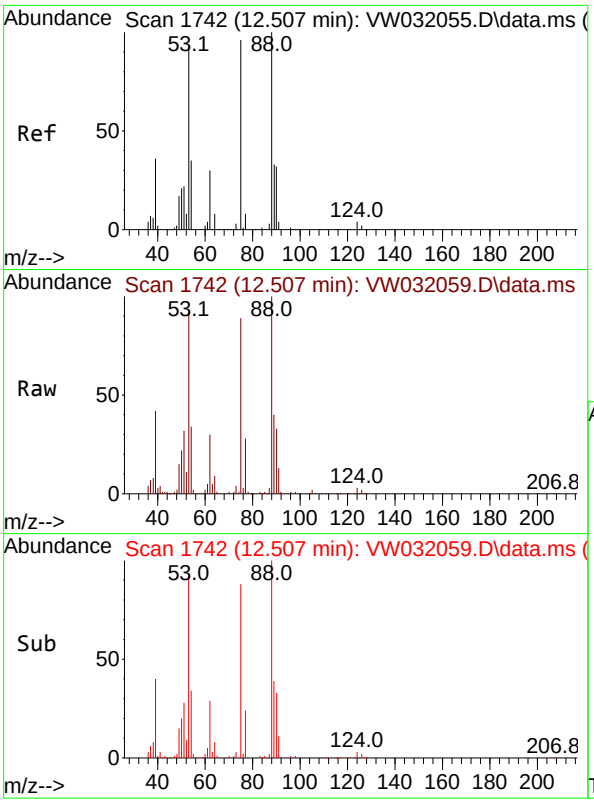


#80
1,3,5-Trimethylbenzene
Concen: 52.291 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 566437

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.4	70.0



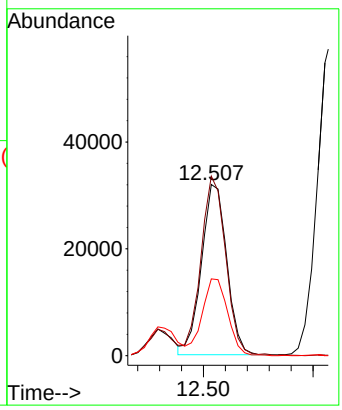


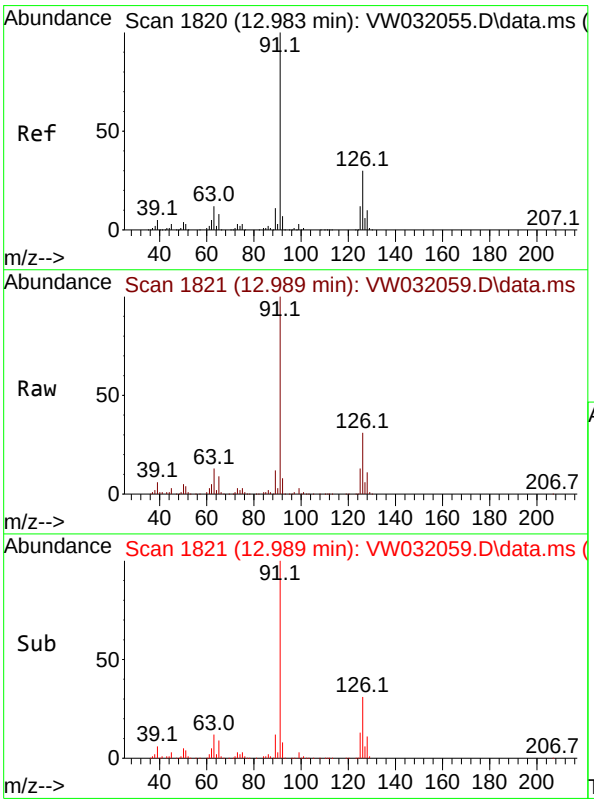
#81
trans-1,4-Dichloro-2-butene
Concen: 53.570 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 75 Resp: 51275

Ion	Ratio	Lower	Upper
75	100		
53	104.4	81.0	121.6
89	45.7	37.3	55.9

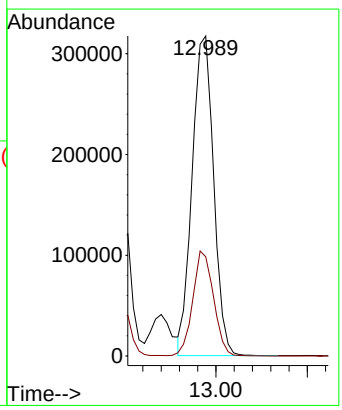


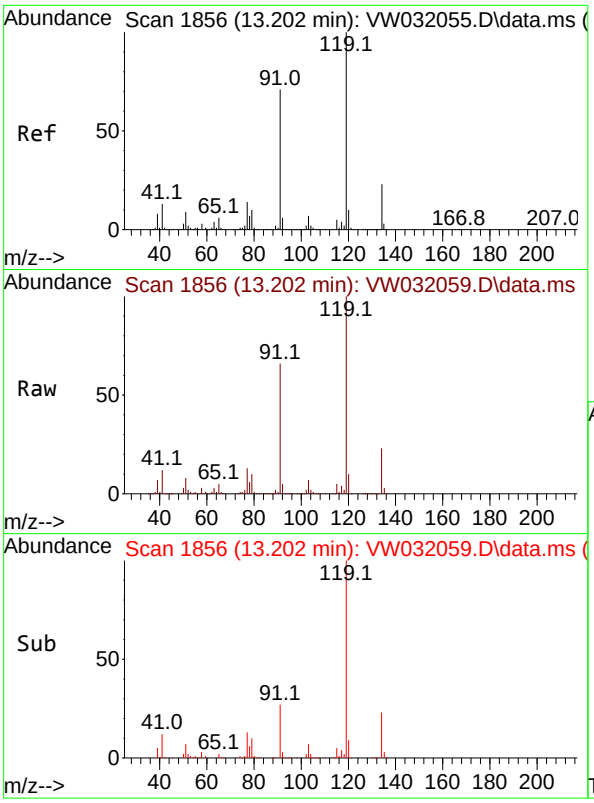


#82
4-Chlorotoluene
Concen: 50.312 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 518248

Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.5	46.5



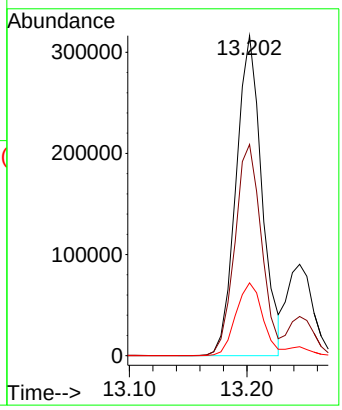


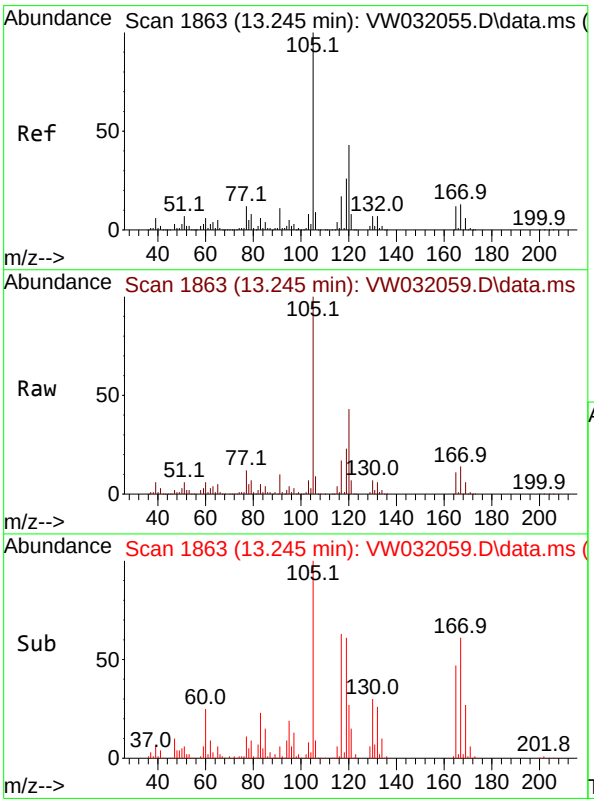
#83
tert-Butylbenzene
Concen: 53.777 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:119 Resp: 483459

Ion	Ratio	Lower	Upper
119	100		
91	67.8	35.3	105.9
134	23.9	12.1	36.3

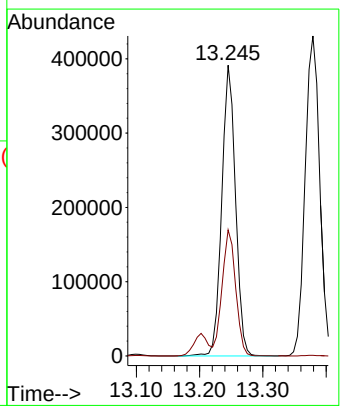


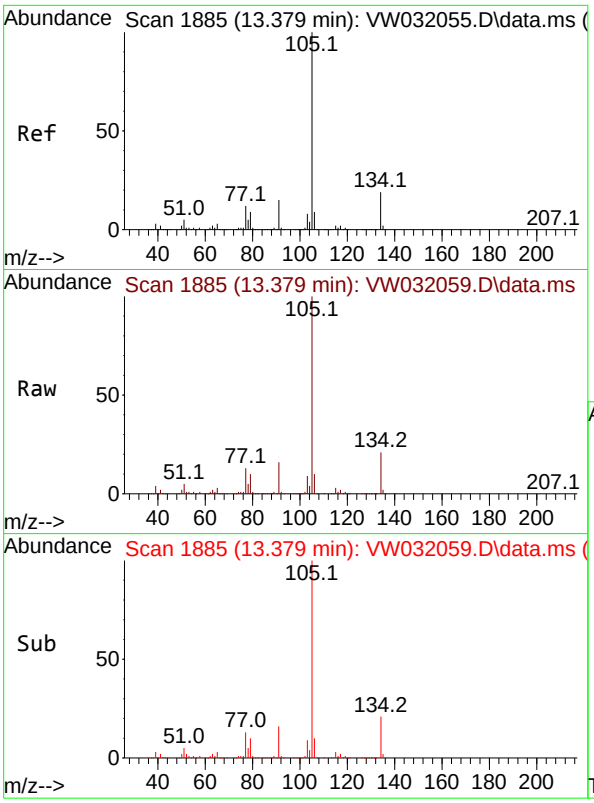


#84
1,2,4-Trimethylbenzene
Concen: 53.308 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 587831

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.6	64.8



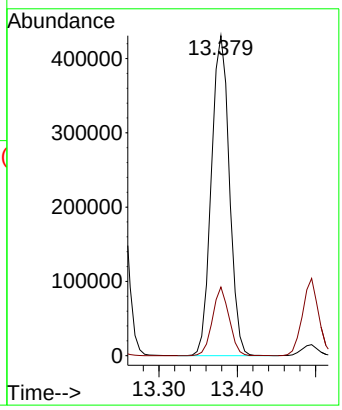


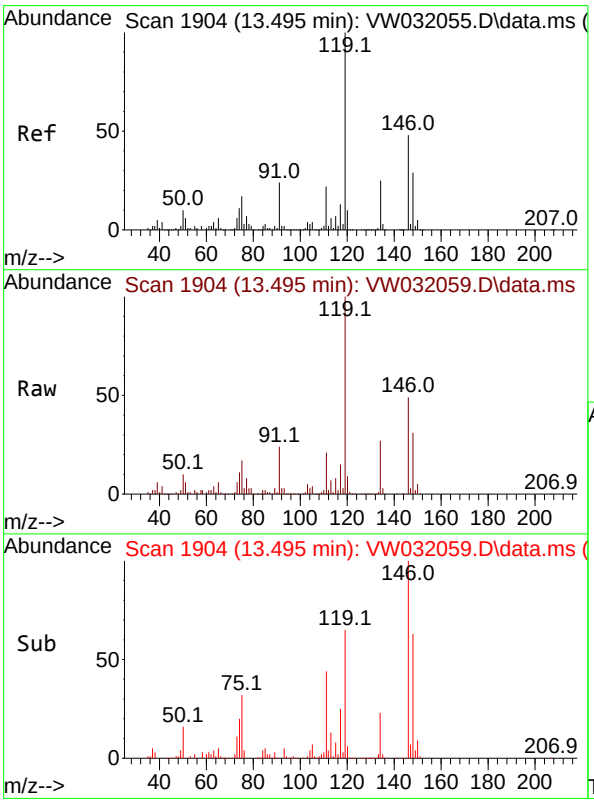
#85
sec-Butylbenzene
Concen: 50.571 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:105 Resp: 687367

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

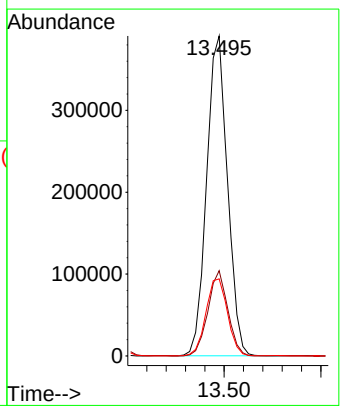


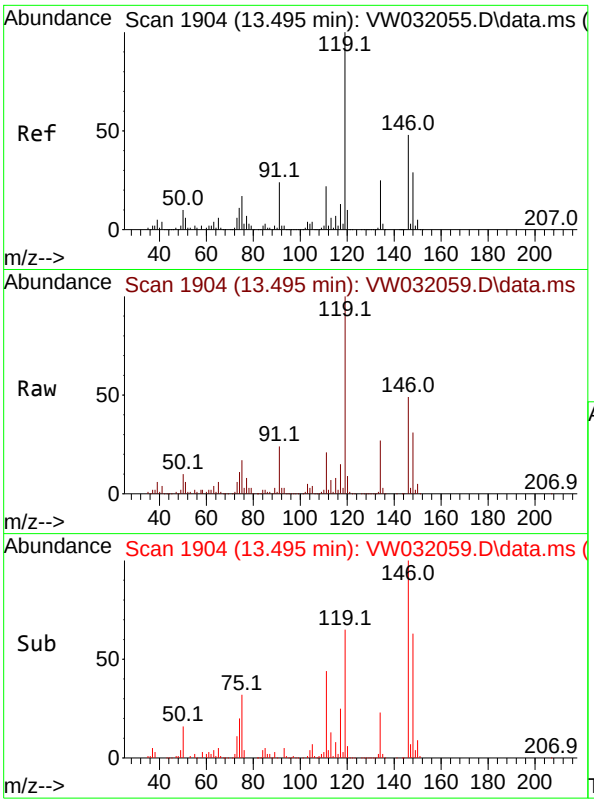


#86
p-Isopropyltoluene
Concen: 51.580 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:119 Resp: 584473

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.4	37.0
91	24.9	12.1	36.3



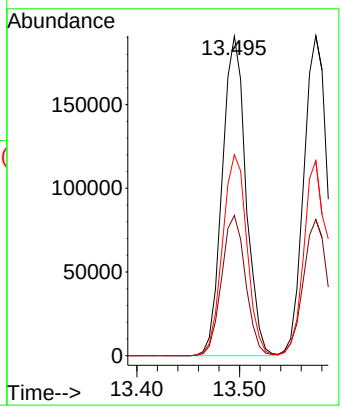


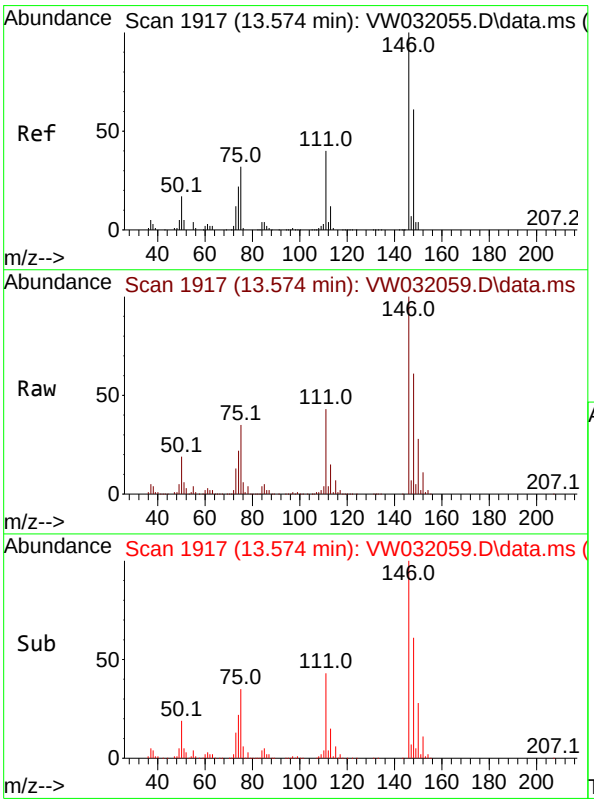
#87
1,3-Dichlorobenzene
Concen: 50.304 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:146 Resp: 305044

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.2	63.6
148	64.8	30.3	90.8

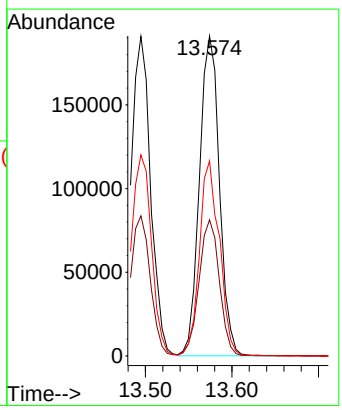


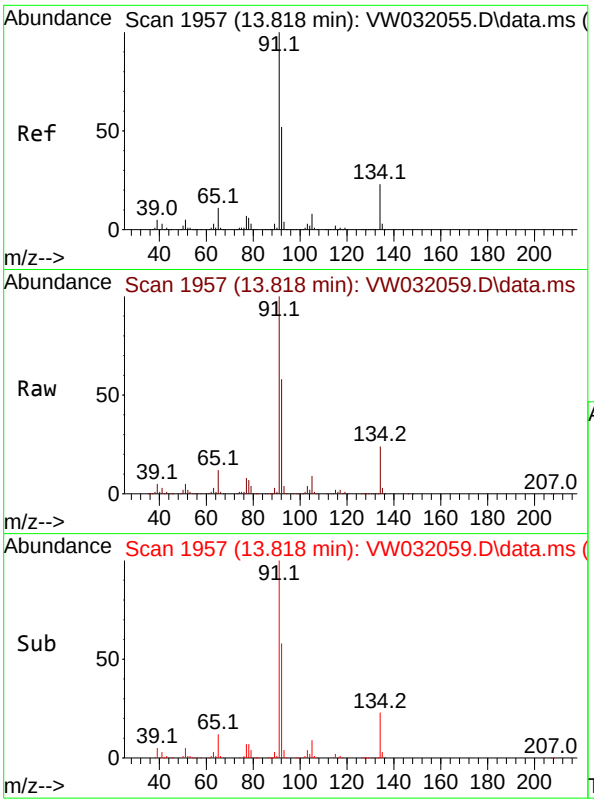


#88
1,4-Dichlorobenzene
Concen: 49.942 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 306047

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	64.6
148	60.9	32.0	96.2



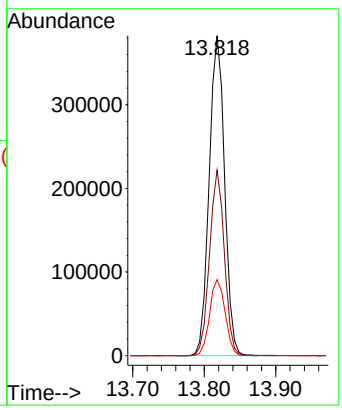


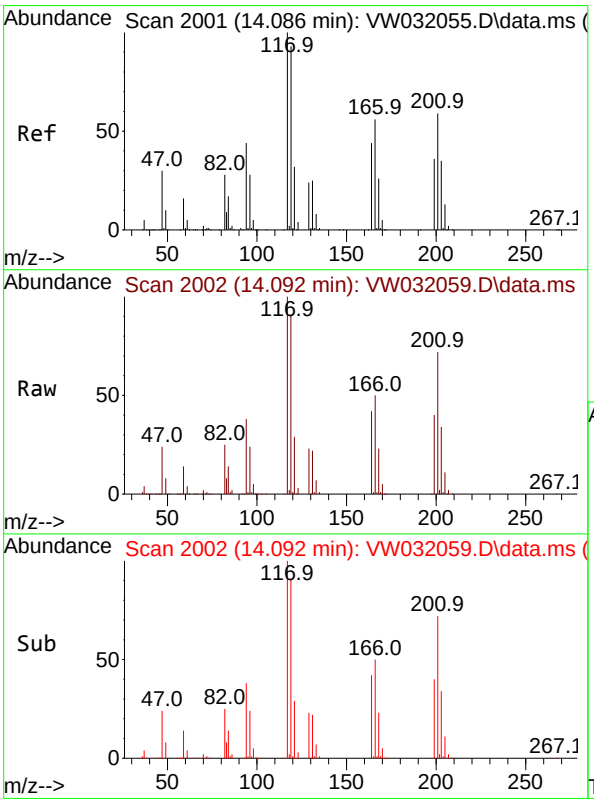
#89
n-Butylbenzene
Concen: 51.958 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 91 Resp: 571978

Ion	Ratio	Lower	Upper
91	100		
92	55.7	26.7	80.1
134	23.9	12.0	36.1

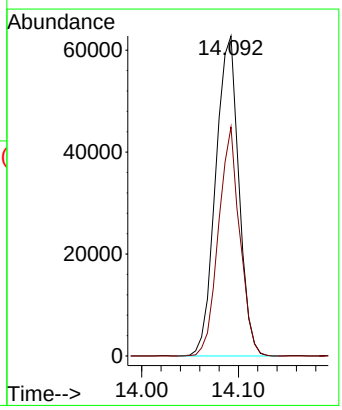


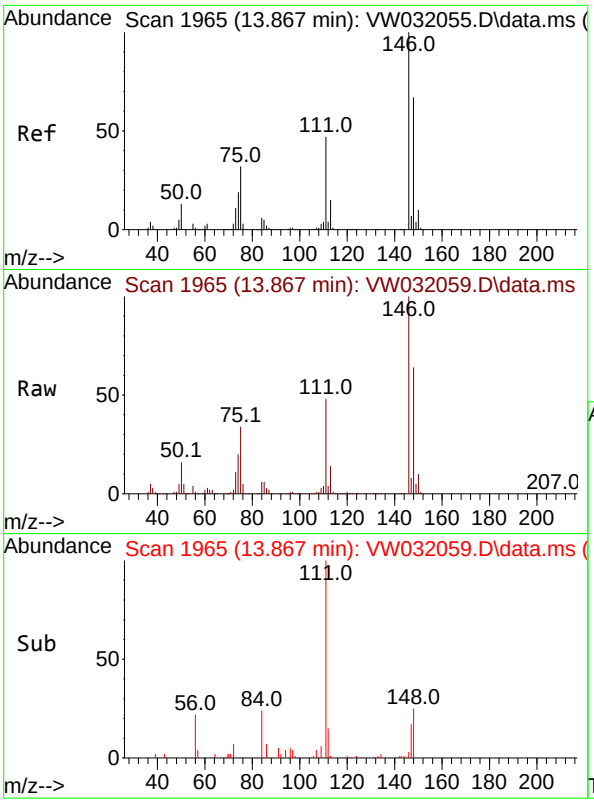


#90
Hexachloroethane
Concen: 50.329 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 104295

Ion	Ratio	Lower	Upper
117	100		
201	65.9	30.9	92.5



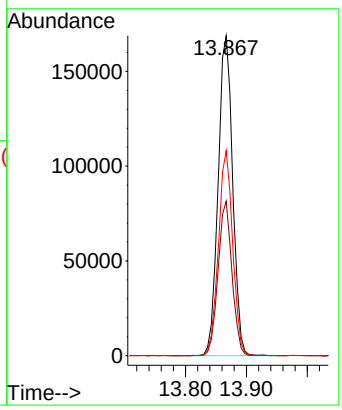


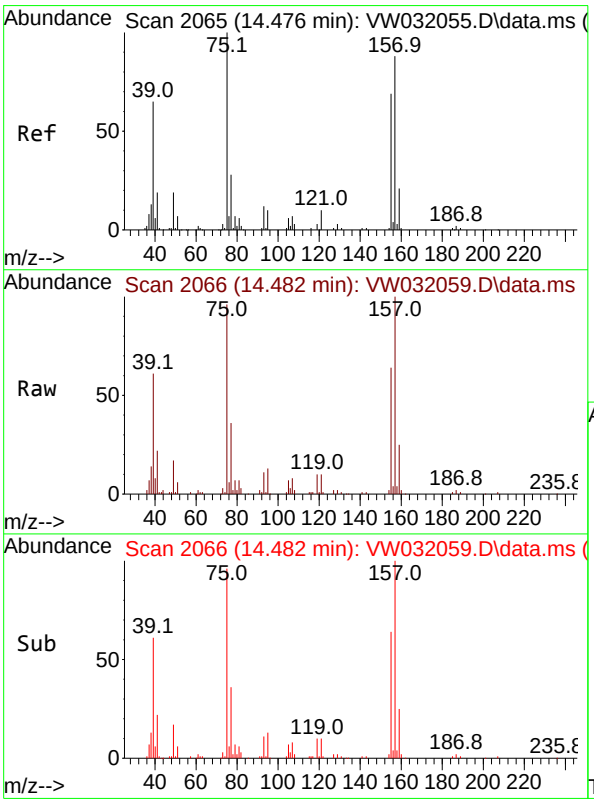
#91
1,2-Dichlorobenzene
Concen: 50.926 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:146 Resp: 279745

Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.1	69.3
148	63.0	32.9	98.6

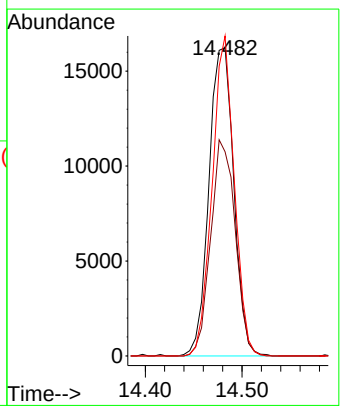


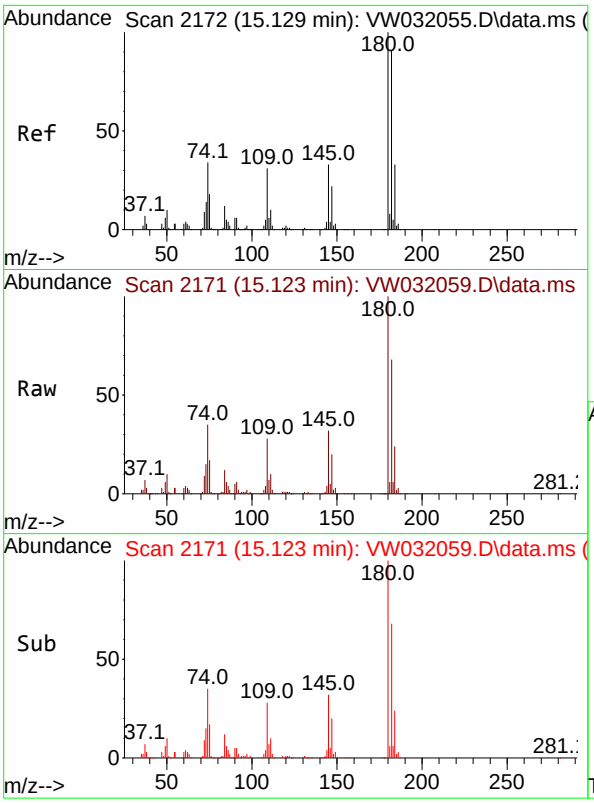


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.872 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 29014

Ion	Ratio	Lower	Upper
75	100		
155	69.2	35.2	105.6
157	92.2	47.5	142.6



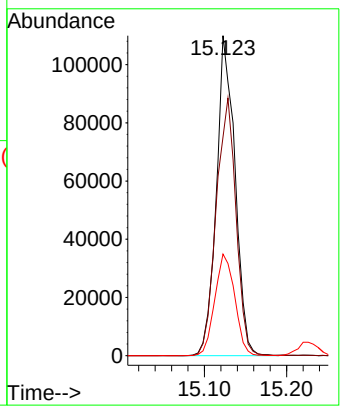


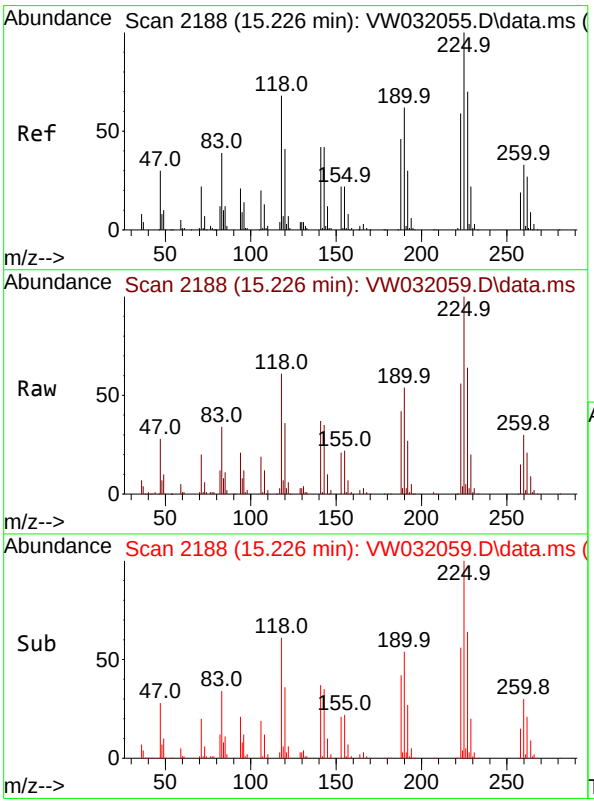
#93
1,2,4-Trichlorobenzene
Concen: 52.764 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:180 Resp: 173386

Ion	Ratio	Lower	Upper
180	100		
182	85.4	49.0	147.0
145	34.1	17.3	51.9

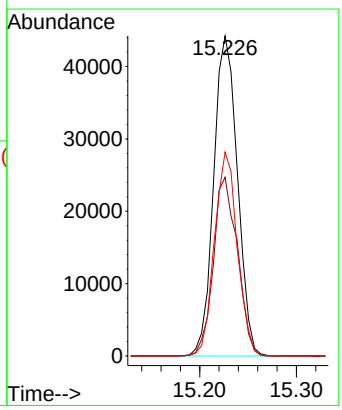


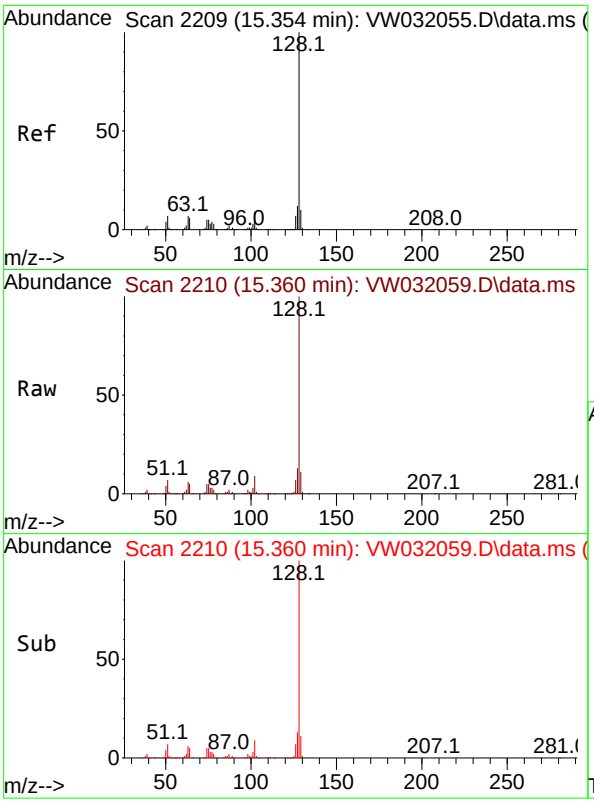


#94
Hexachlorobutadiene
Concen: 51.262 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:225 Resp: 75299

Ion	Ratio	Lower	Upper
225	100		
223	56.5	31.8	95.3
227	61.3	33.5	100.5



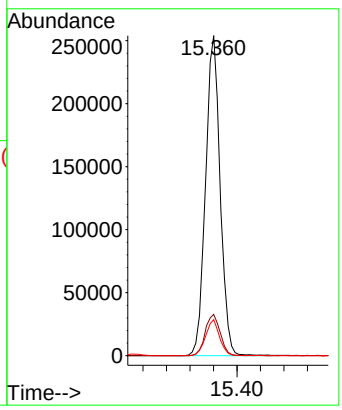


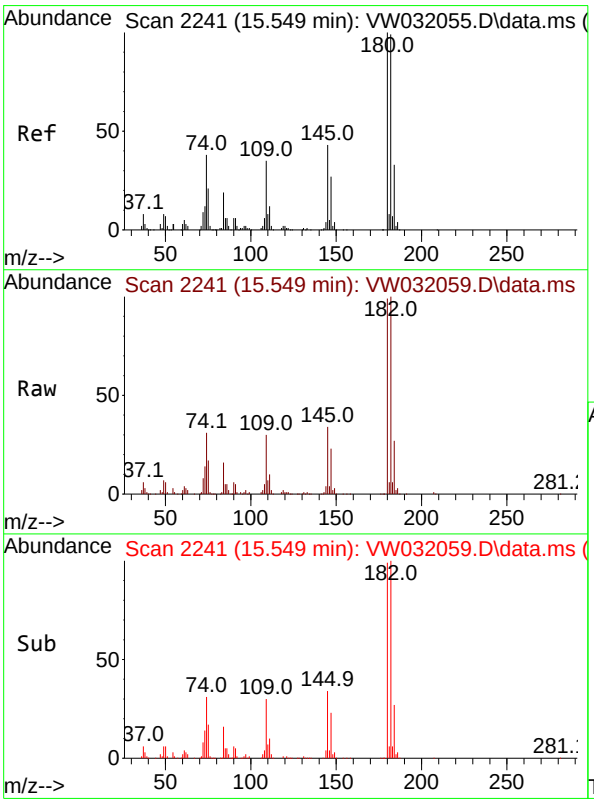
#95
Naphthalene
Concen: 54.415 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:128 Resp: 438139

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.7	8.2	12.4

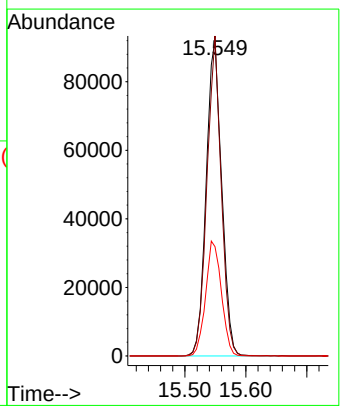




#96
1,2,3-Trichlorobenzene
Concen: 54.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:180 Resp: 162431

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.0	138.0
145	37.1	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	209331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	369087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	337227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	174813	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	152426	50.347	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 100.700%			
35) Dibromofluoromethane	7.904	113	127528	53.483	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 106.960%			
50) Toluene-d8	10.324	98	452920	51.355	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 102.720%			
62) 4-Bromofluorobenzene	12.617	95	163398	50.275	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 100.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	74536	49.784	ug/l	98
3) Chloromethane	2.253	50	89872	44.563	ug/l	95
4) Vinyl Chloride	2.405	62	116200	47.634	ug/l	98
5) Bromomethane	2.820	94	98568	53.858	ug/l	100
6) Chloroethane	2.972	64	82661	51.208	ug/l	98
7) Trichlorofluoromethane	3.307	101	112860	57.752	ug/l	96
8) Diethyl Ether	3.716	74	86491	54.020	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.106	101	127479	55.292	ug/l	96
10) Methyl Iodide	4.313	142	168357	51.502	ug/l	96
11) Tert butyl alcohol	5.222	59	47413	241.851	ug/l	100
12) 1,1-Dichloroethene	4.076	96	137220	54.052	ug/l	94
13) Acrolein	3.935	56	45869	146.845	ug/l	99
14) Allyl chloride	4.704	41	166676	45.111	ug/l #	87
15) Acrylonitrile	5.405	53	193220	253.370	ug/l	99
16) Acetone	4.161	43	207328	295.783	ug/l	97
17) Carbon Disulfide	4.423	76	306638	45.000	ug/l	97
18) Methyl Acetate	4.710	43	112047	50.516	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	225122	50.329	ug/l	97
20) Methylene Chloride	4.960	84	139212	42.955	ug/l	98
21) trans-1,2-Dichloroethene	5.459	96	134920	50.080	ug/l	98
22) Diisopropyl ether	6.337	45	389232	49.971	ug/l	92
23) Vinyl Acetate	6.282	43	1373340	268.547	ug/l	99
24) 1,1-Dichloroethane	6.246	63	245164	49.263	ug/l	99
25) 2-Butanone	7.197	43	270175	271.199	ug/l	99
26) 2,2-Dichloropropane	7.185	77	124724	49.956	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	163086	51.787	ug/l	97
28) Bromochloromethane	7.532	49	106726	47.126	ug/l	97
29) Tetrahydrofuran	7.557	42	172032	261.846	ug/l	100
30) Chloroform	7.691	83	279930	53.058	ug/l	99
31) Cyclohexane	7.971	56	194201	45.011	ug/l	99
32) 1,1,1-Trichloroethane	7.886	97	196892	51.378	ug/l	99
36) 1,1-Dichloropropene	8.093	75	178210	53.016	ug/l	98
37) Ethyl Acetate	7.276	43	115111	58.145	ug/l	96
38) Carbon Tetrachloride	8.081	117	189059	58.281	ug/l	98
39) Methylcyclohexane	9.343	83	213123	52.018	ug/l	96
40) Benzene	8.337	78	563104	53.892	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	67789	60.380	ug/l		95
42) 1,2-Dichloroethane	8.410	62	193320	57.820	ug/l		98
43) Isopropyl Acetate	8.435	43	208154	57.148	ug/l		98
44) Trichloroethene	9.105	130	139933	56.237	ug/l		89
45) 1,2-Dichloropropane	9.373	63	135567	53.705	ug/l		100
46) Dibromomethane	9.465	93	95991	58.920	ug/l		99
47) Bromodichloromethane	9.654	83	214831	57.226	ug/l		100
48) Methyl methacrylate	9.440	41	97630	55.521	ug/l	#	88
49) 1,4-Dioxane	9.465	88	23861	1132.752	ug/l		98
51) 4-Methyl-2-Pentanone	10.215	43	613885	298.600	ug/l		96
52) Toluene	10.392	92	360912	54.839	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	196142	55.768	ug/l		100
54) cis-1,3-Dichloropropene	10.074	75	219444	54.997	ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	122561	56.613	ug/l		98
56) Ethyl methacrylate	10.648	69	164035	56.621	ug/l	#	91
57) 1,3-Dichloropropane	10.934	76	206568	54.740	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	410338	256.070	ug/l		99
59) 2-Hexanone	10.971	43	431742	303.226	ug/l		96
60) Dibromochloromethane	11.129	129	149280	60.364	ug/l		99
61) 1,2-Dibromoethane	11.239	107	122248	58.108	ug/l		98
64) Tetrachloroethene	10.867	164	112551	57.783	ug/l		91
65) Chlorobenzene	11.660	112	410189	55.882	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.727	131	133382	58.241	ug/l		98
67) Ethyl Benzene	11.733	91	677681	54.505	ug/l		96
68) m/p-Xylenes	11.836	106	540433	112.646	ug/l		97
69) o-Xylene	12.166	106	257799	58.137	ug/l		97
70) Styrene	12.178	104	455535	57.835	ug/l		99
71) Bromoform	12.348	173	83619	63.831	ug/l	#	99
73) Isopropylbenzene	12.464	105	639037	52.307	ug/l		99
74) N-amyl acetate	12.269	43	194883	55.601	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	151408	52.197	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	191760	80.822	ug/l		53
77) Bromobenzene	12.745	156	156846	53.753	ug/l		93
78) n-propylbenzene	12.800	91	803277	53.406	ug/l		100
79) 2-Chlorotoluene	12.891	91	475026	51.172	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	559898	53.983	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	46191	50.402	ug/l		91
82) 4-Chlorotoluene	12.989	91	510140	51.725	ug/l		97
83) tert-Butylbenzene	13.202	119	472615	54.905	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	560238	53.062	ug/l		98
85) sec-Butylbenzene	13.379	105	672760	51.695	ug/l		99
86) p-Isopropyltoluene	13.495	119	580472	53.502	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	326126	56.169	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	320333	54.595	ug/l		97
89) n-Butylbenzene	13.818	91	565150	53.618	ug/l		99
90) Hexachloroethane	14.086	117	102479	51.649	ug/l		96
91) 1,2-Dichlorobenzene	13.866	146	296975	56.464	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	27059	52.473	ug/l		96
93) 1,2,4-Trichlorobenzene	15.128	180	173211	55.052	ug/l		98
94) Hexachlorobutadiene	15.226	225	81528	57.968	ug/l		91
95) Naphthalene	15.360	128	444478	57.653	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	162937	56.917	ug/l		93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

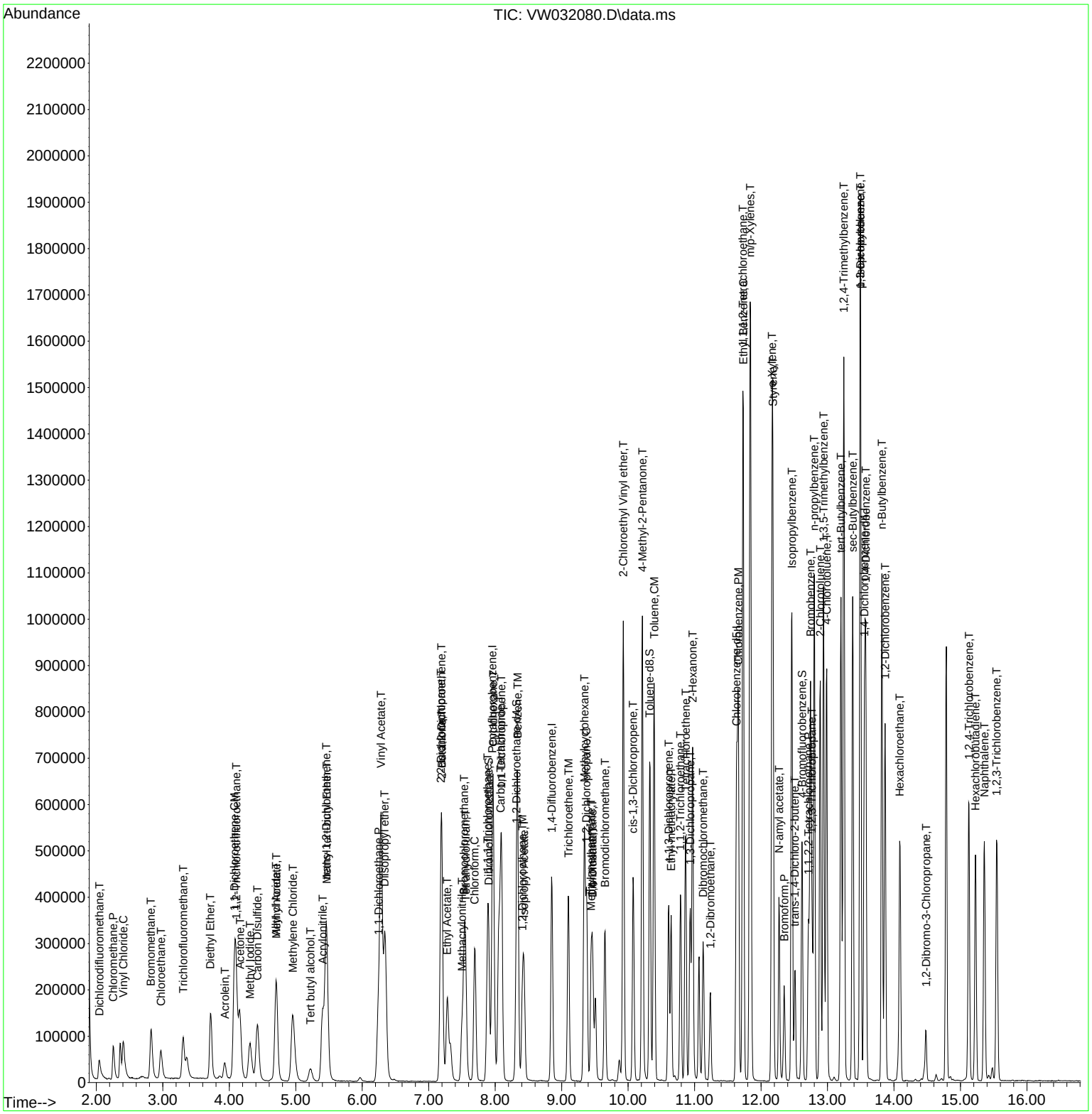
(#) = qualifier out of range (m) = manual integration (+) = signals summed

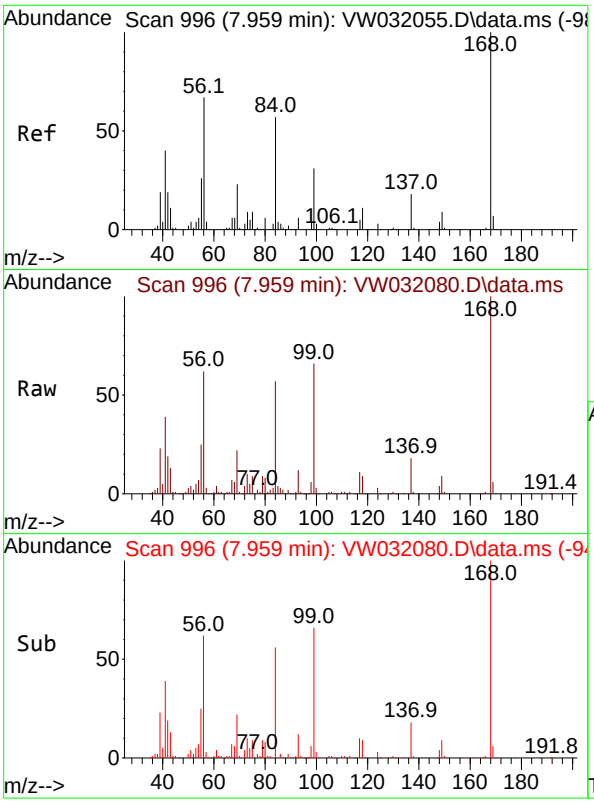
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032080.D
Acq On : 14 Aug 2025 09:27
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 03:44:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



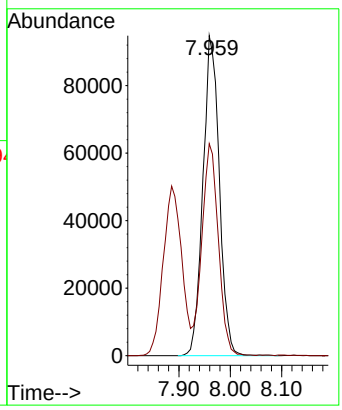


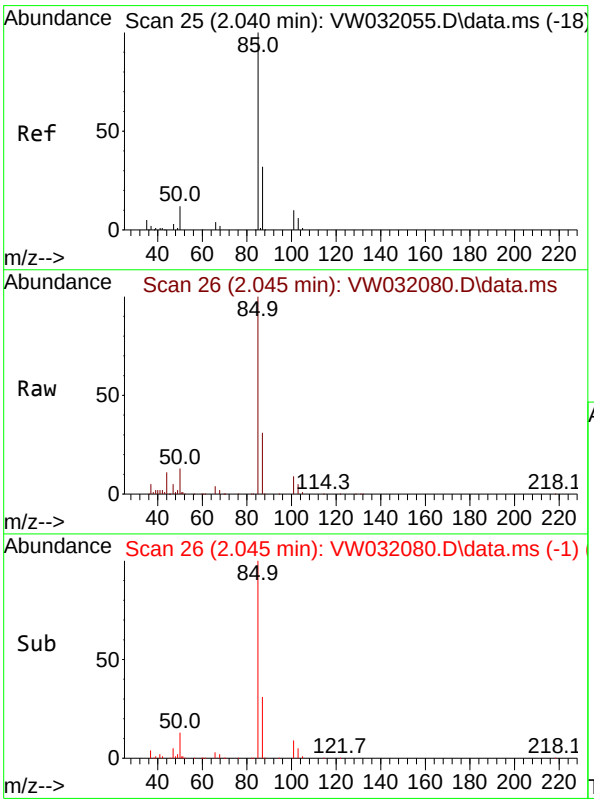
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 209331

Ion	Ratio	Lower	Upper
168	100		
99	66.1	56.0	84.0

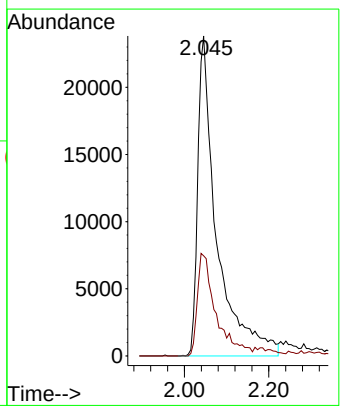


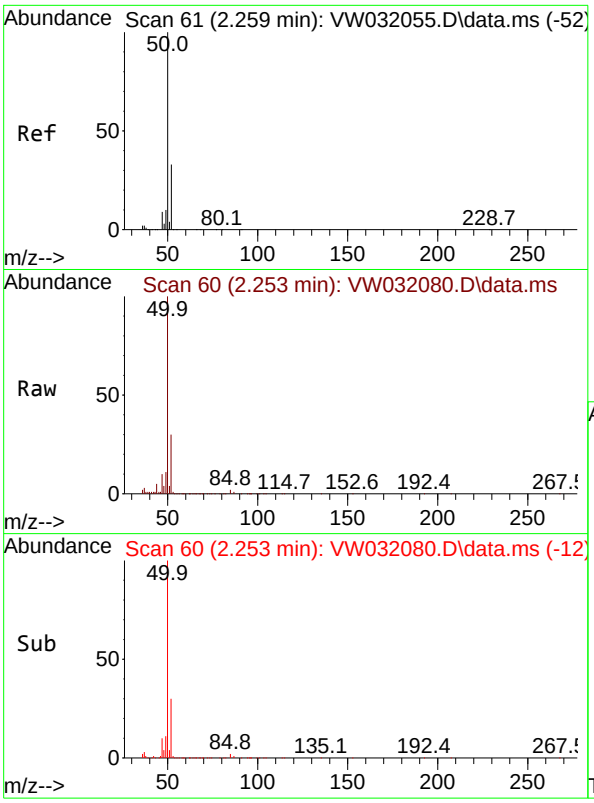


#2
Dichlorodifluoromethane
Concen: 49.784 ug/l
RT: 2.045 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 85 Resp: 74536

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.2	48.6



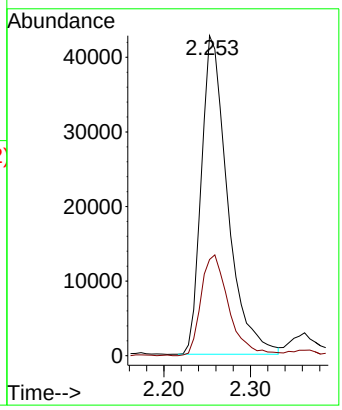


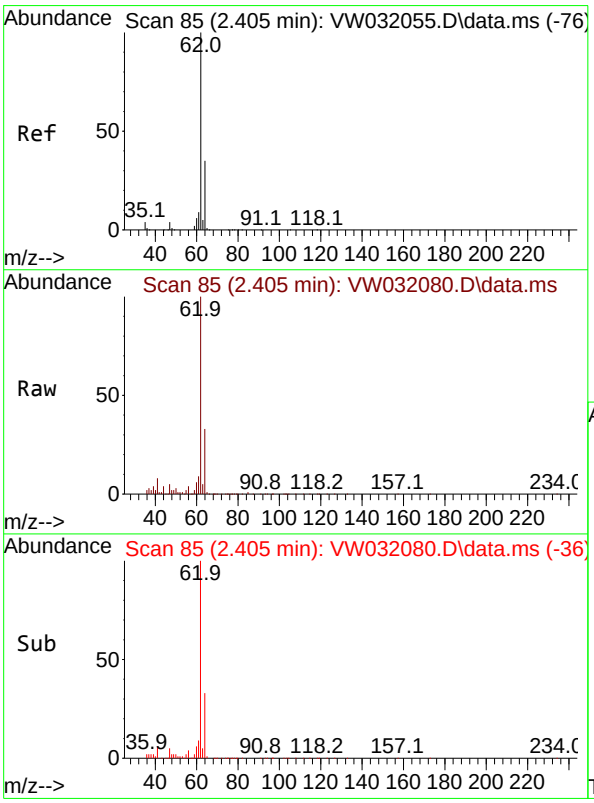
#3
Chloromethane
Concen: 44.563 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 89872

Ion	Ratio	Lower	Upper
50	100		
52	30.2	26.6	39.8

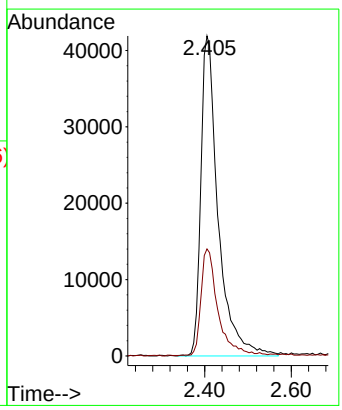


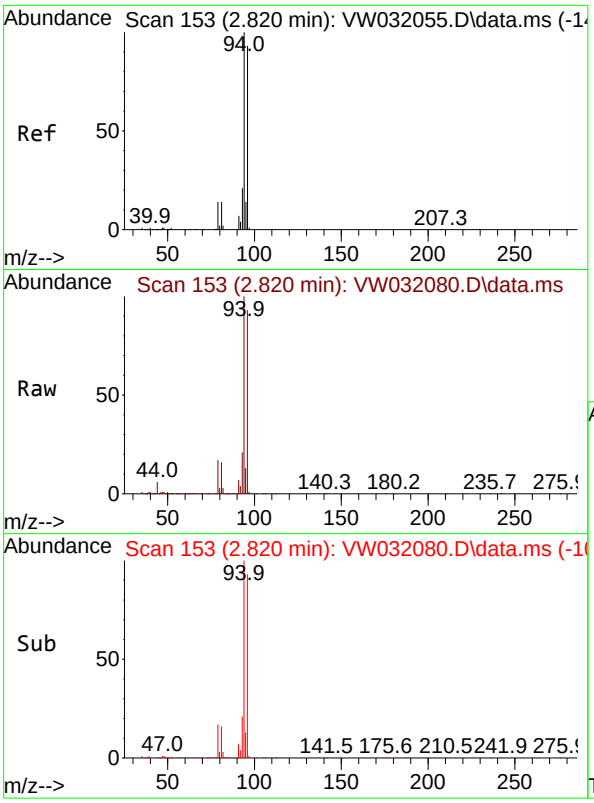


#4
Vinyl Chloride
Concen: 47.634 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 62 Resp: 116200

Ion	Ratio	Lower	Upper
62	100		
64	33.3	27.8	41.6



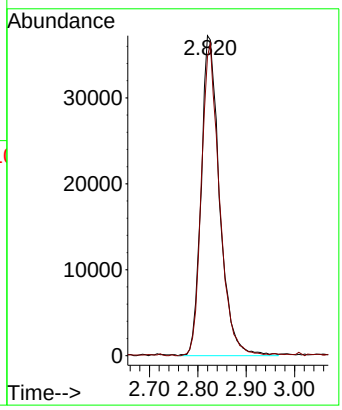


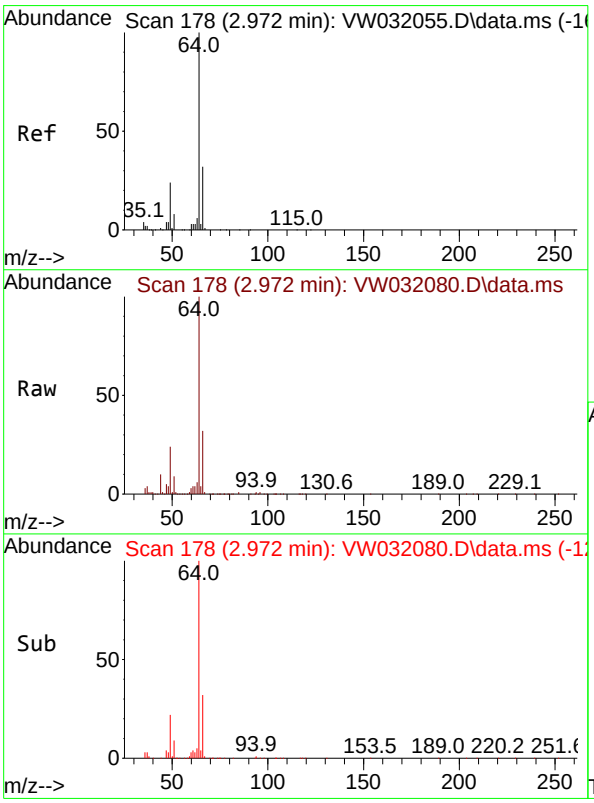
#5
Bromomethane
Concen: 53.858 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 98568

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.7	112.1

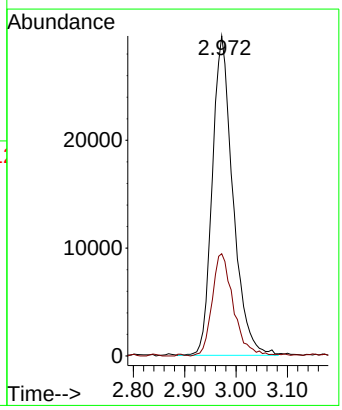


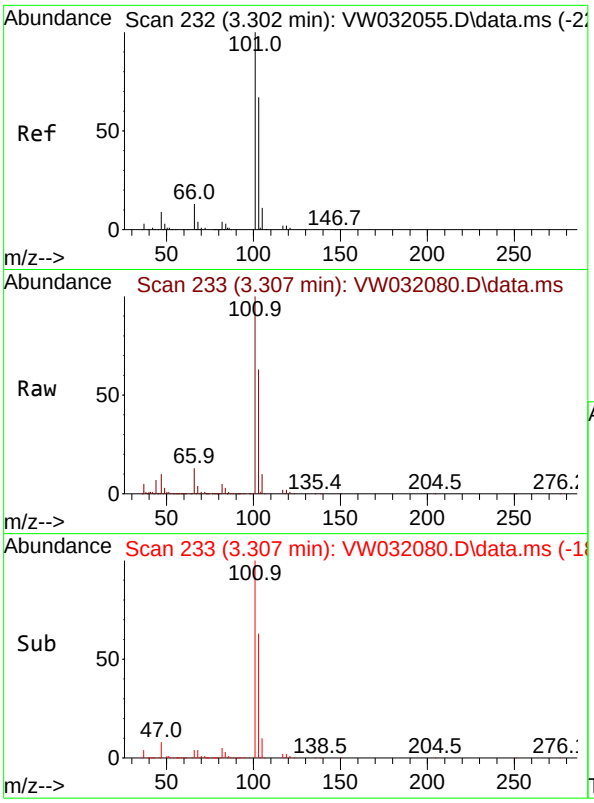


#6
Chloroethane
Concen: 51.208 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 64 Resp: 82661

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.0	39.0



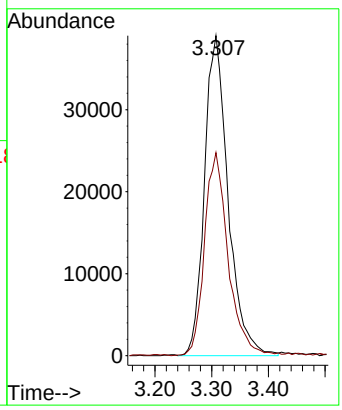


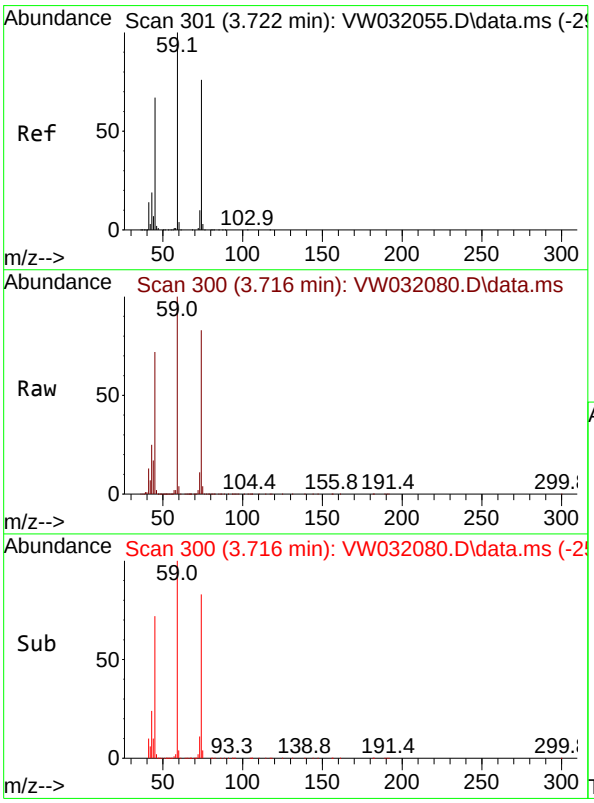
#7
Trichlorofluoromethane
Concen: 57.752 ug/l
RT: 3.307 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 112860

Ion	Ratio	Lower	Upper
101	100		
103	63.4	53.4	80.0

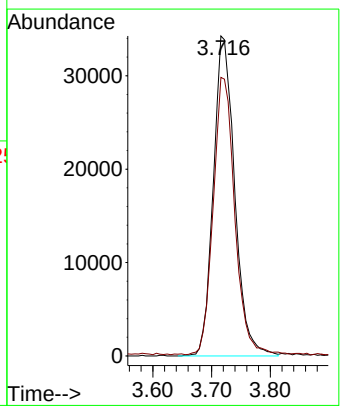


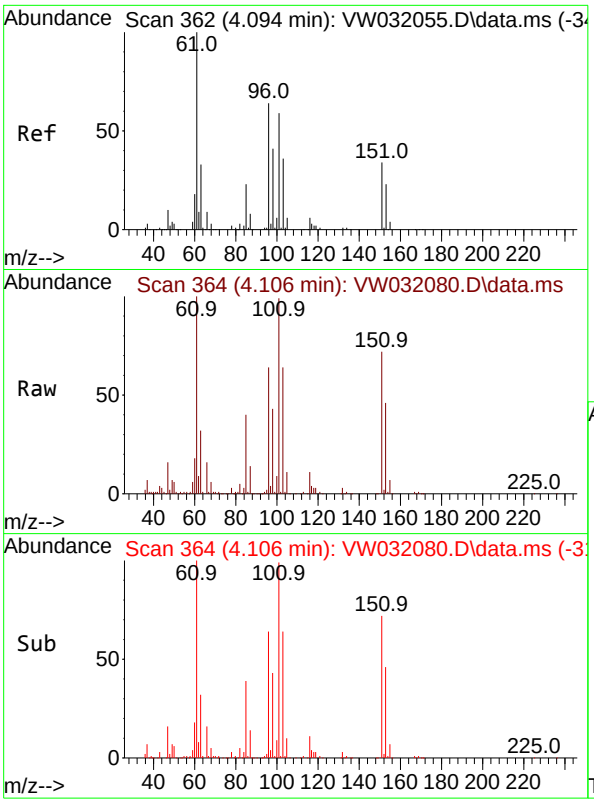


#8
Diethyl Ether
Concen: 54.020 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 74 Resp: 86491

Ion	Ratio	Lower	Upper
74	100		
45	87.3	45.4	136.2



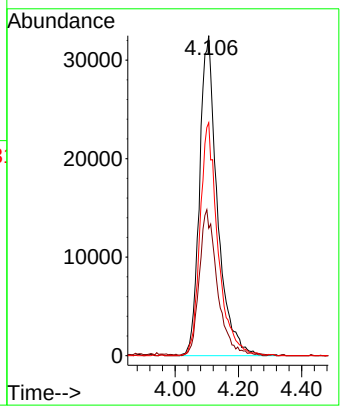


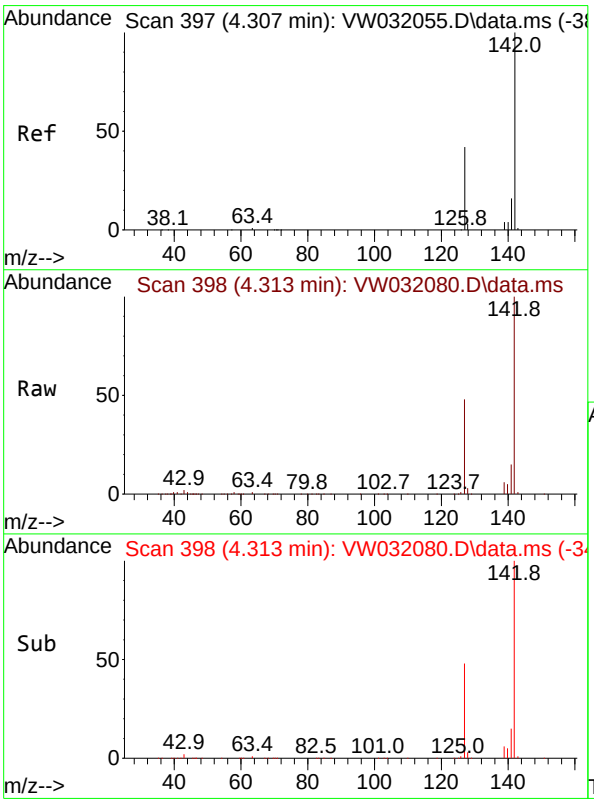
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.292 ug/l
RT: 4.106 min Scan# 3
Delta R.T. 0.012 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 127479

Ion	Ratio	Lower	Upper
101	100		
85	46.3	34.9	52.3
151	73.3	56.2	84.4

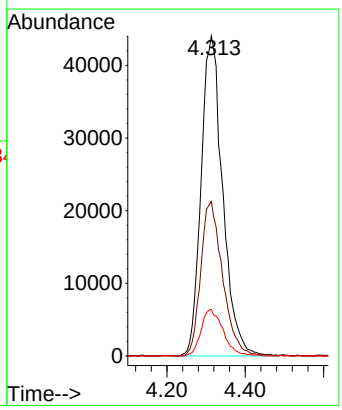


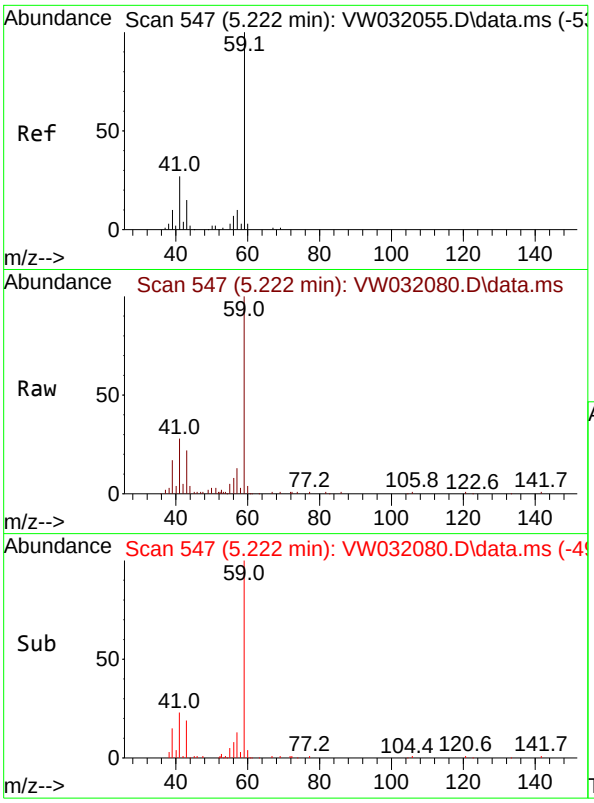


#10
Methyl Iodide
Concen: 51.502 ug/l
RT: 4.313 min Scan# 398
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:142 Resp: 168357

Ion	Ratio	Lower	Upper
142	100		
127	49.1	36.6	55.0
141	14.9	12.1	18.1



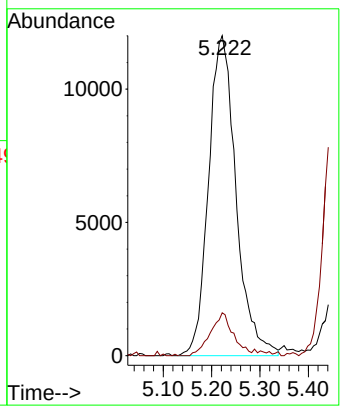


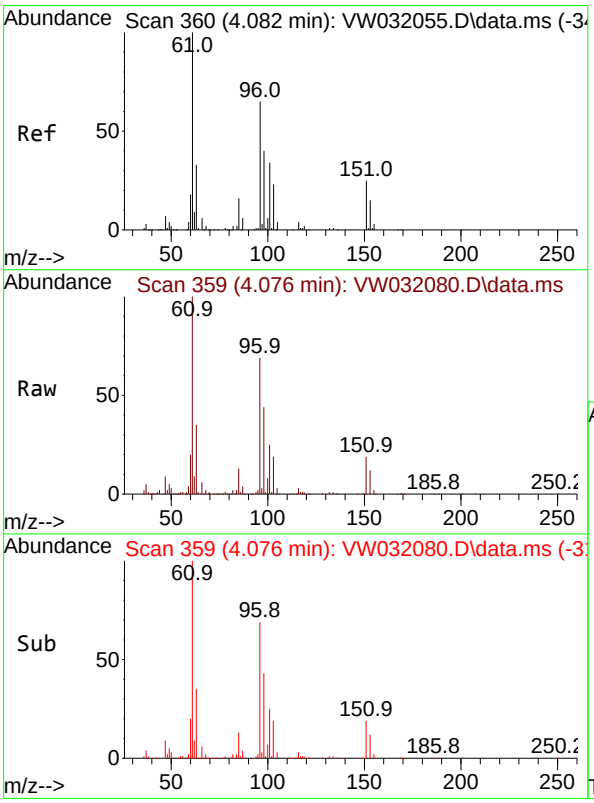
#11
Tert butyl alcohol
Concen: 241.851 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 47413

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.7	13.1

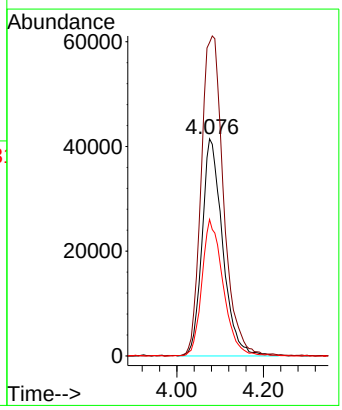


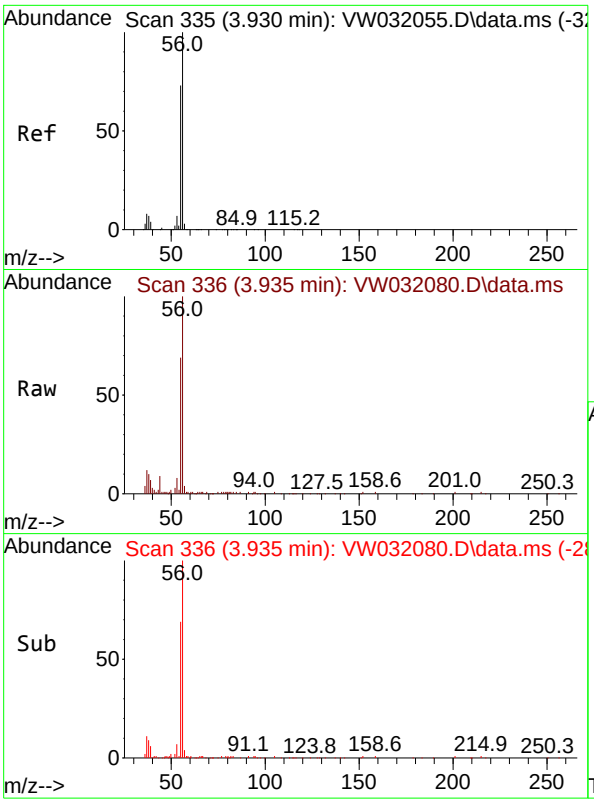


#12
1,1-Dichloroethene
Concen: 54.052 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 96 Resp: 137220

Ion	Ratio	Lower	Upper
96	100		
61	144.2	123.4	185.2
98	62.7	49.5	74.3



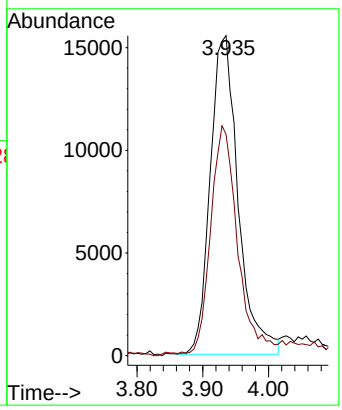


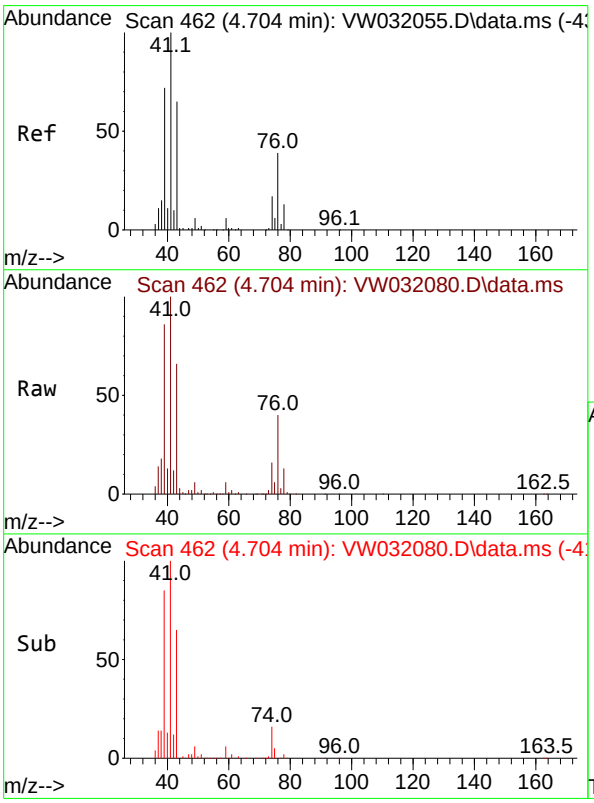
#13
Acrolein
Concen: 146.845 ug/l
RT: 3.935 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 45869

Ion	Ratio	Lower	Upper
56	100		
55	68.2	55.4	83.2

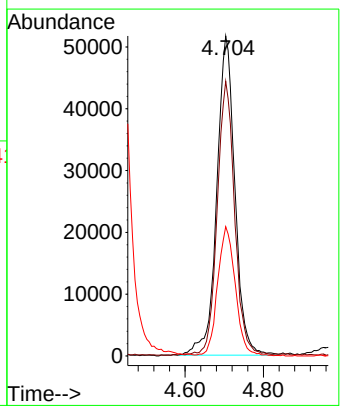


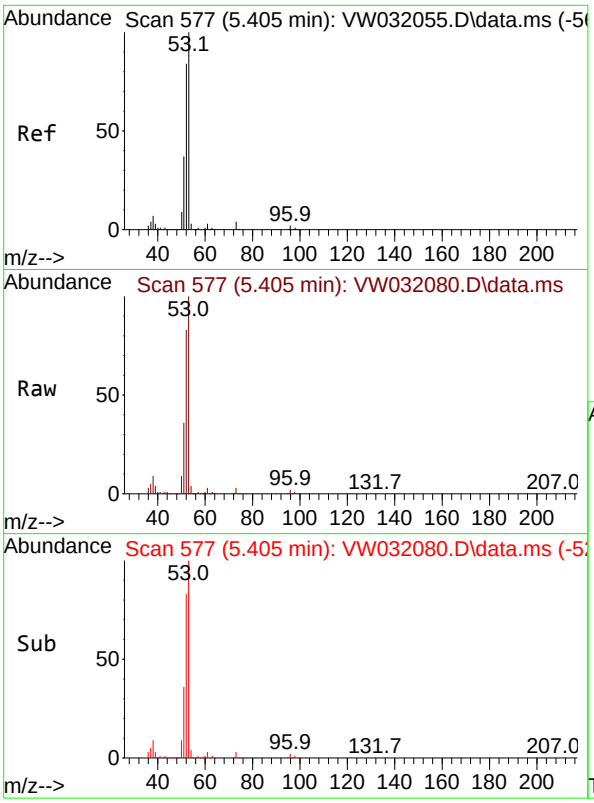


#14
Allyl chloride
Concen: 45.111 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 41 Resp: 166676

Ion	Ratio	Lower	Upper
41	100		
39	81.9	54.5	81.7#
76	39.1	29.3	43.9



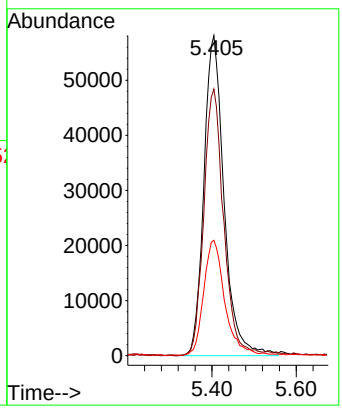


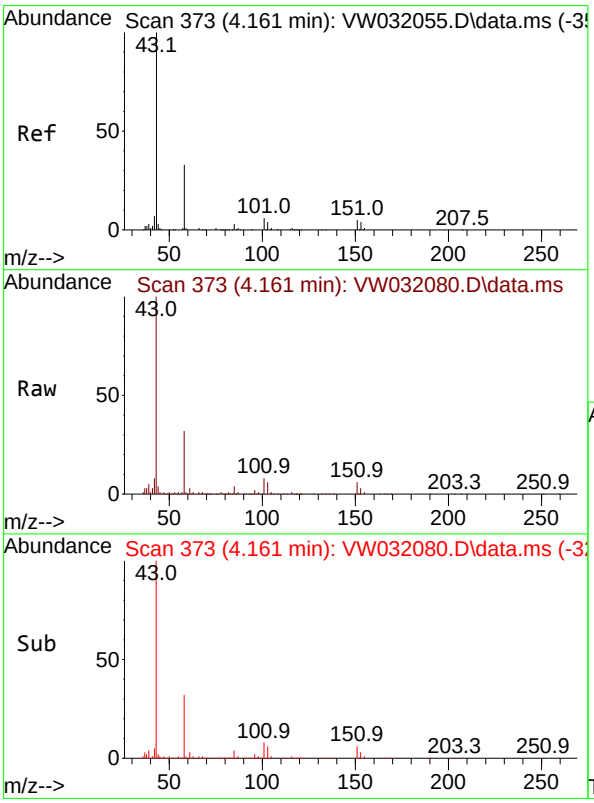
#15
Acrylonitrile
Concen: 253.370 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 193220

Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.1	99.1
51	37.4	29.2	43.8

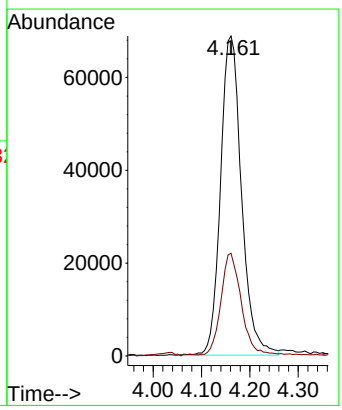


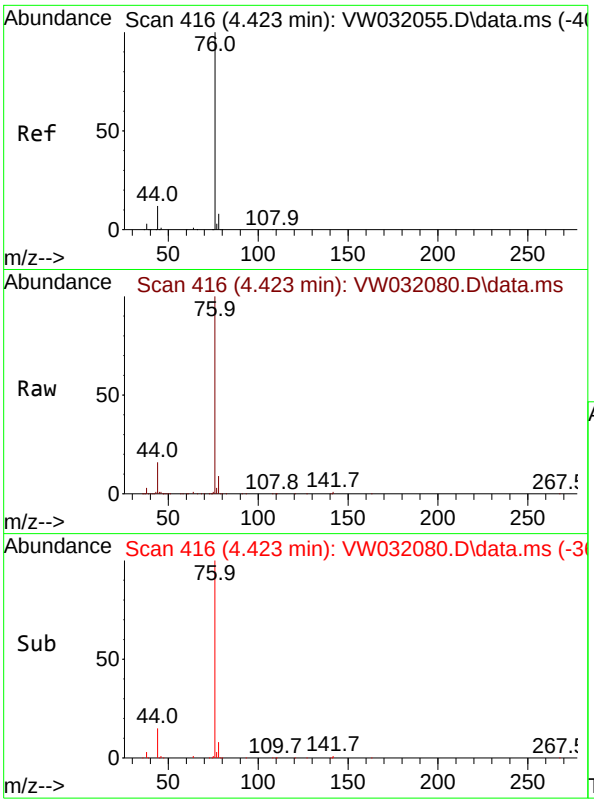


#16
Acetone
Concen: 295.783 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 207328

Ion	Ratio	Lower	Upper
43	100		
58	31.7	26.6	39.8



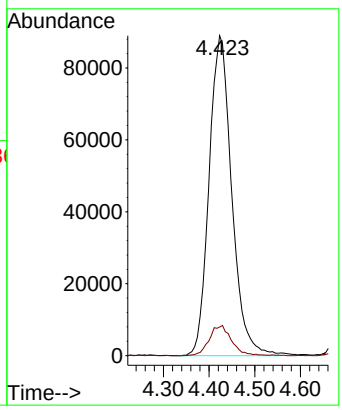


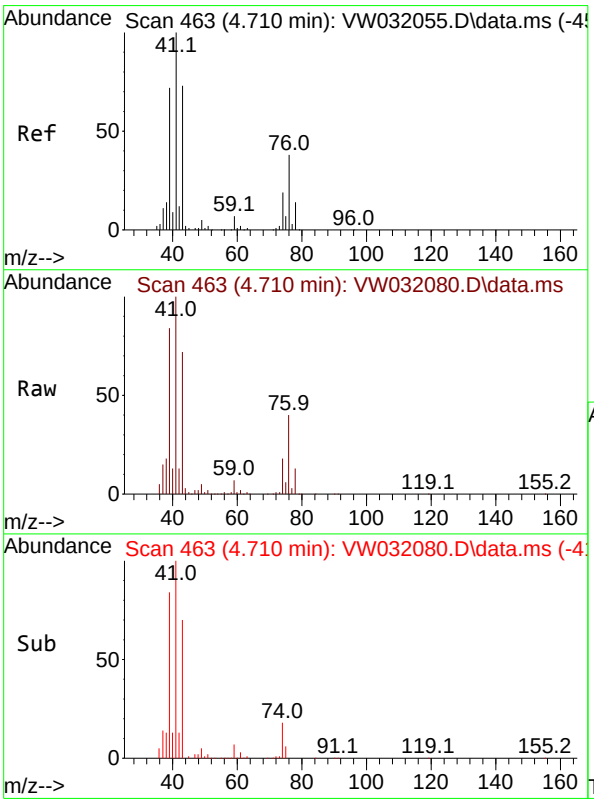
#17
Carbon Disulfide
Concen: 45.000 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 306638

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.4	9.6

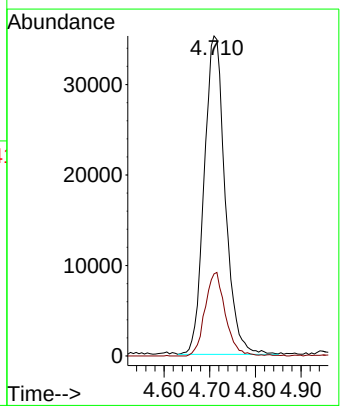


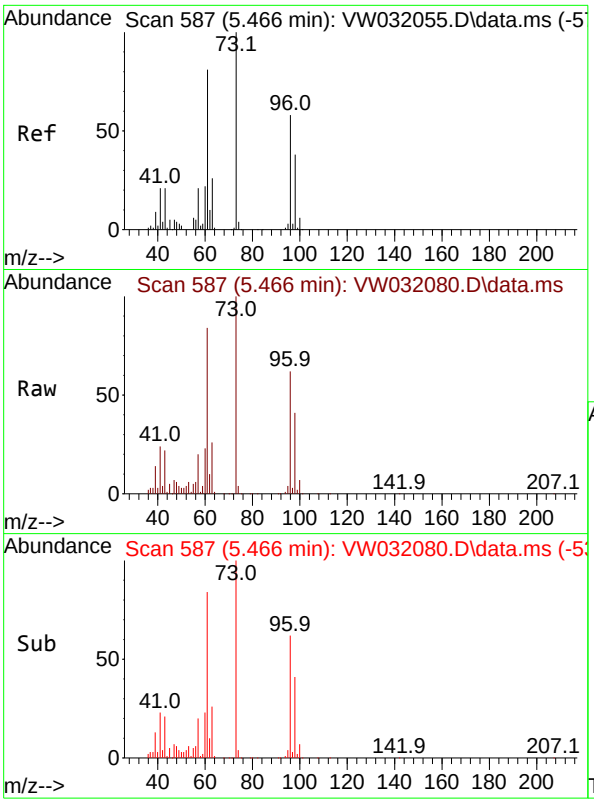


#18
Methyl Acetate
Concen: 50.516 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 112047

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.6	31.0



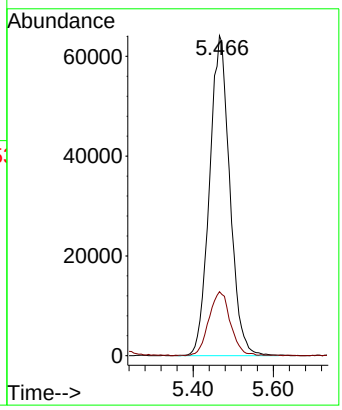


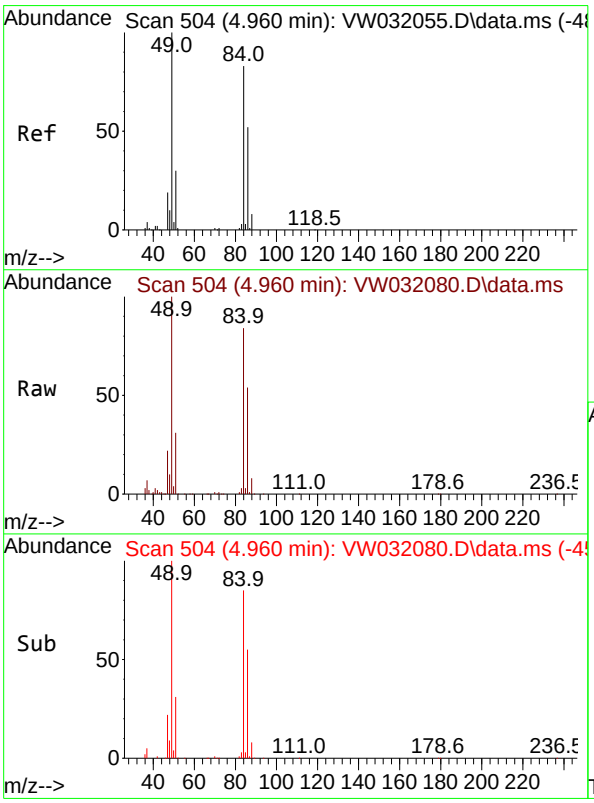
#19
Methyl tert-butyl Ether
Concen: 50.329 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 225122

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.2	25.8

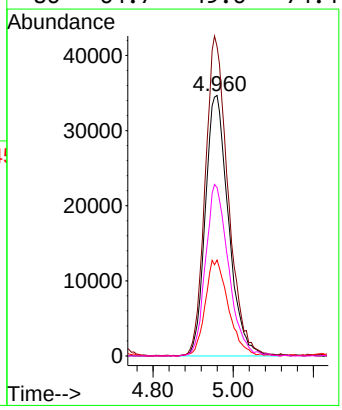


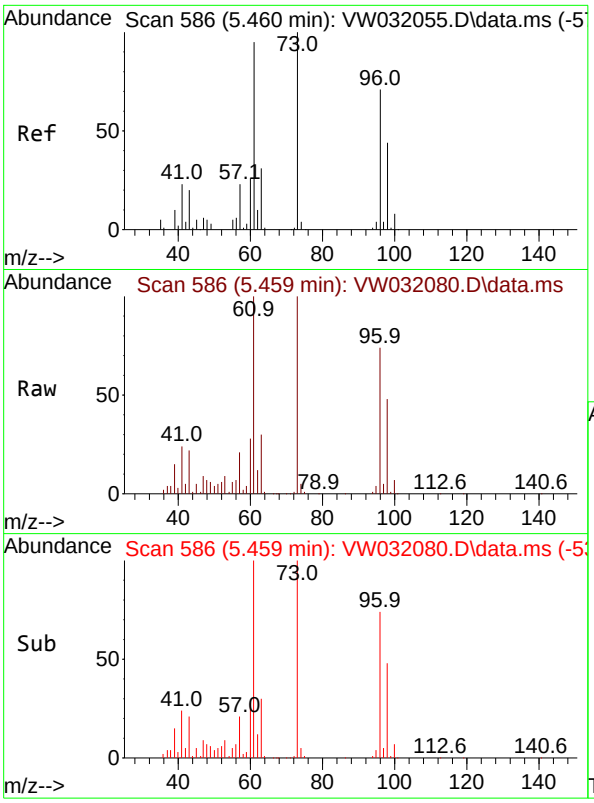


#20
Methylene Chloride
Concen: 42.955 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 84 Resp: 139212

Ion	Ratio	Lower	Upper
84	100		
49	118.8	95.9	143.9
51	36.8	28.6	43.0
86	64.7	49.6	74.4



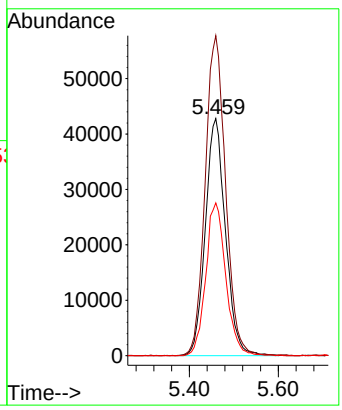


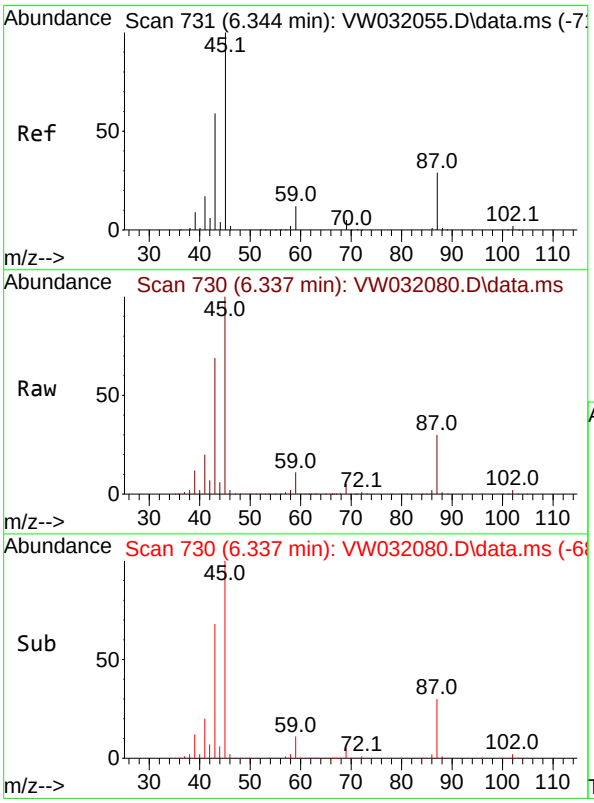
#21
trans-1,2-Dichloroethene
Concen: 50.080 ug/l
RT: 5.459 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 134920

Ion	Ratio	Lower	Upper
96	100		
61	134.8	106.8	160.2
98	64.4	49.6	74.4

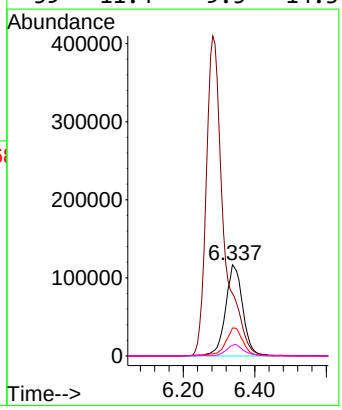


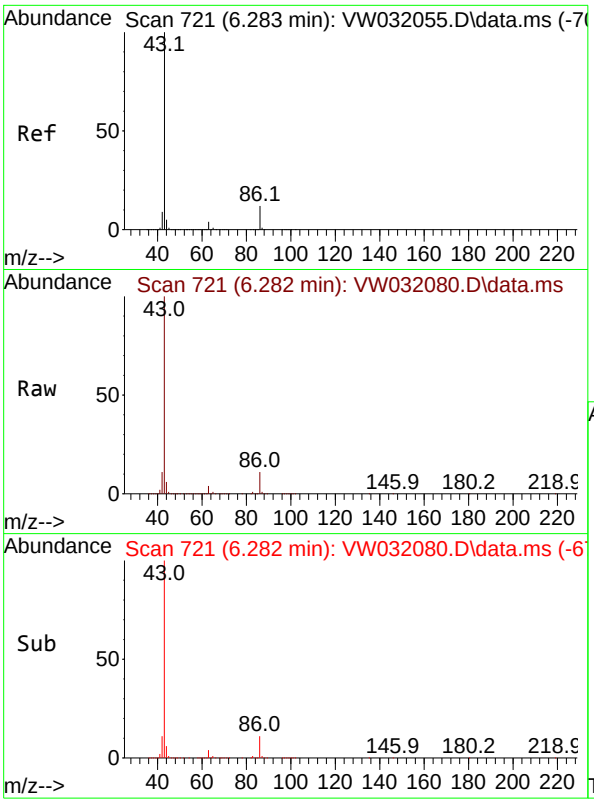


#22
Diisopropyl ether
Concen: 49.971 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 45 Resp: 389232

Ion	Ratio	Lower	Upper
45	100		
43	68.5	47.0	70.4
87	30.4	23.8	35.8
59	11.4	9.5	14.3



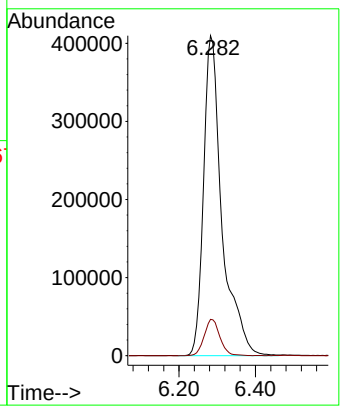


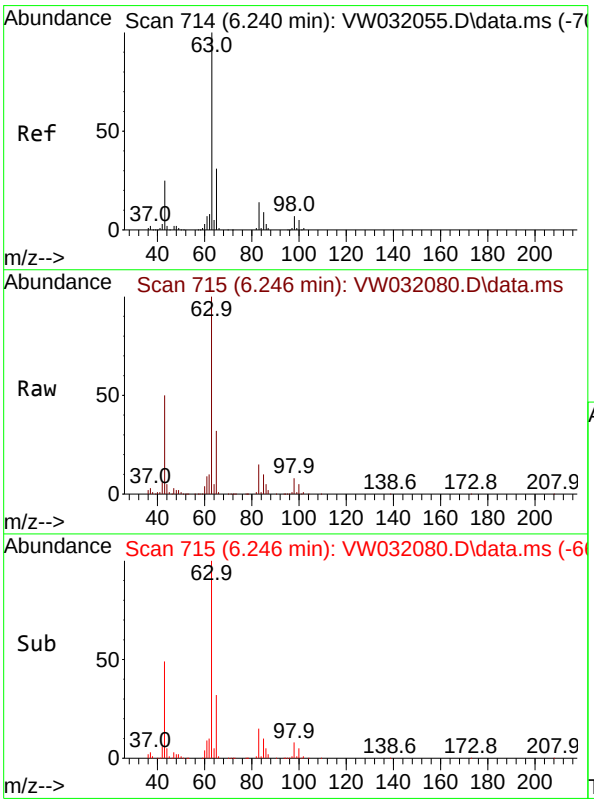
#23
Vinyl Acetate
Concen: 268.547 ug/l
RT: 6.282 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1373340

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.4	14.0

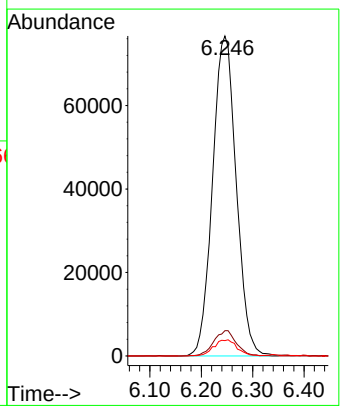


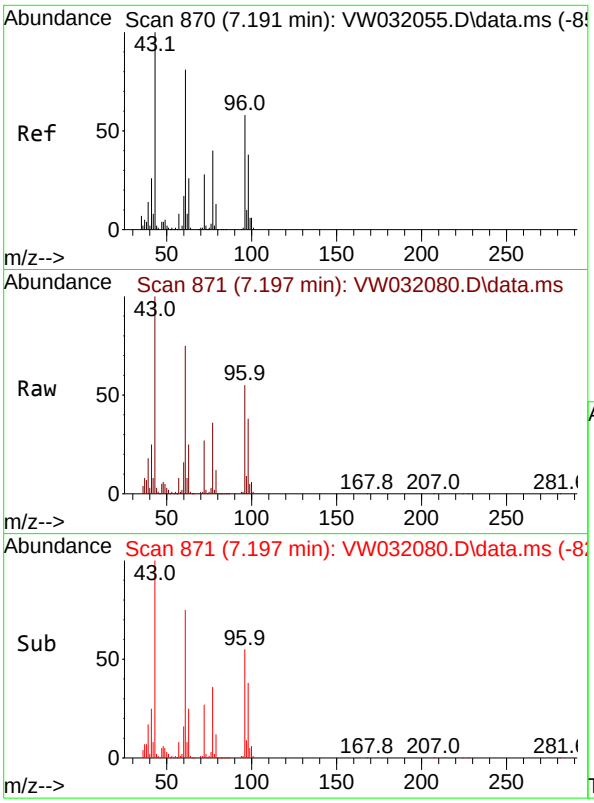


#24
1,1-Dichloroethane
Concen: 49.263 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 63 Resp: 245164

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.7	11.1
100	4.8	2.5	7.4



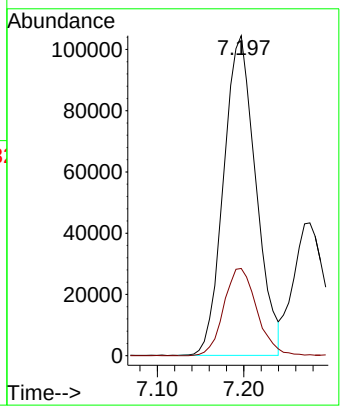


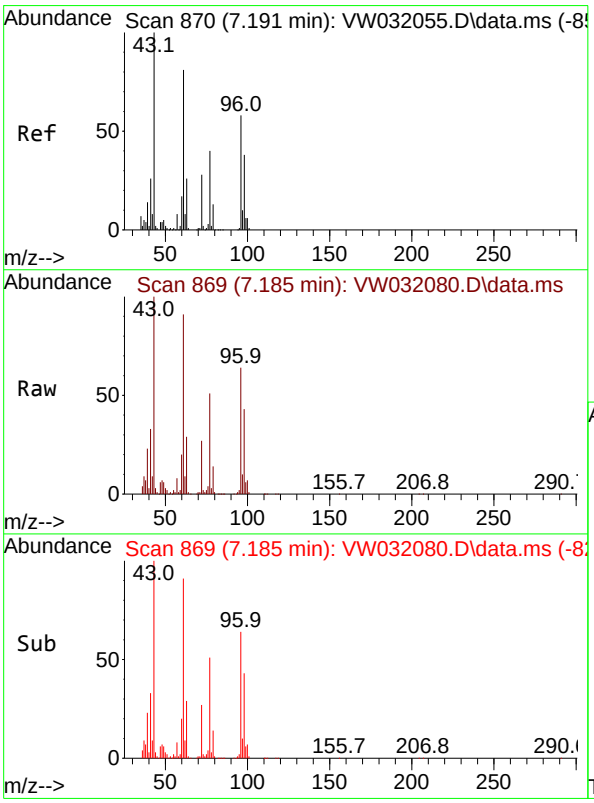
#25
2-Butanone
Concen: 271.199 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 270175

Ion	Ratio	Lower	Upper
43	100		
72	27.3	22.3	33.5

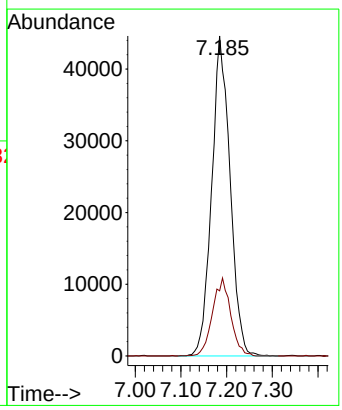


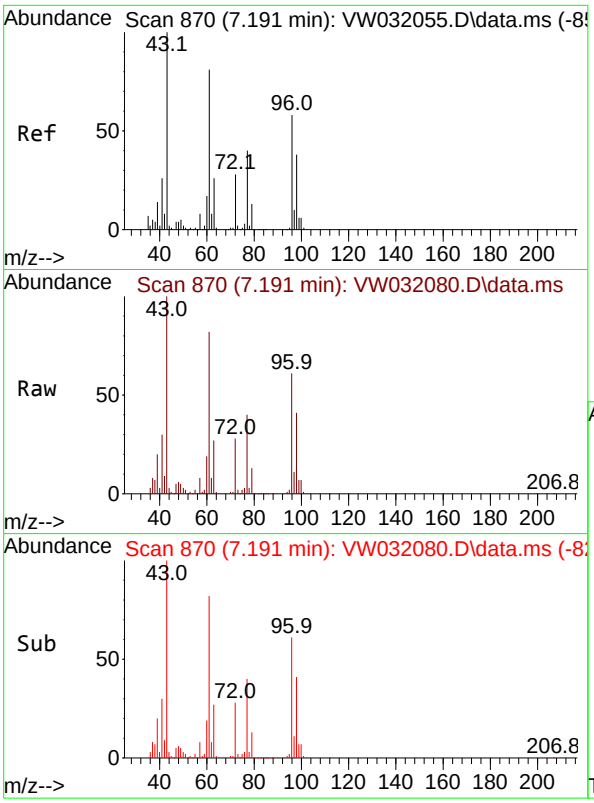


#26
2,2-Dichloropropane
Concen: 49.956 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 77 Resp: 124724

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.3	36.9



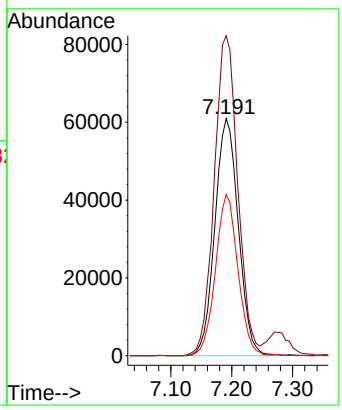


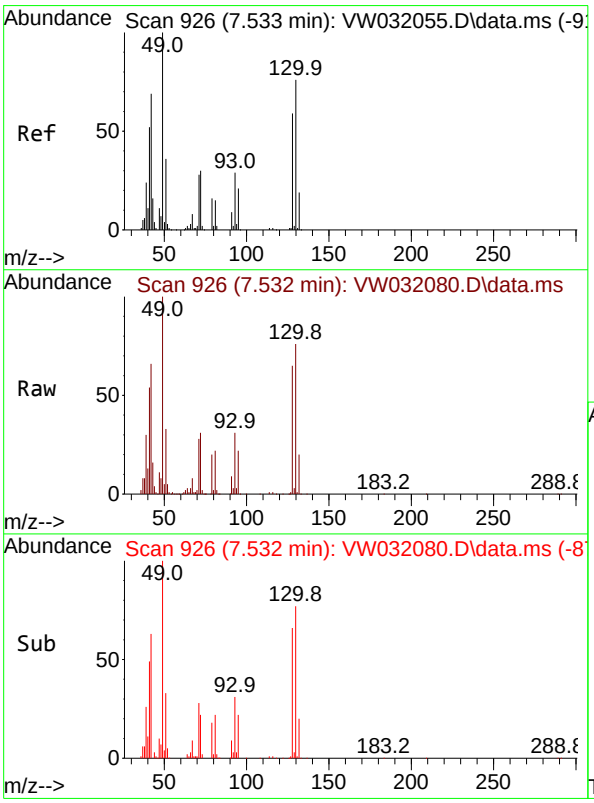
#27
cis-1,2-Dichloroethene
Concen: 51.787 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 163086

Ion	Ratio	Lower	Upper
96	100		
61	135.4	0.0	281.2
98	65.1	0.0	130.8

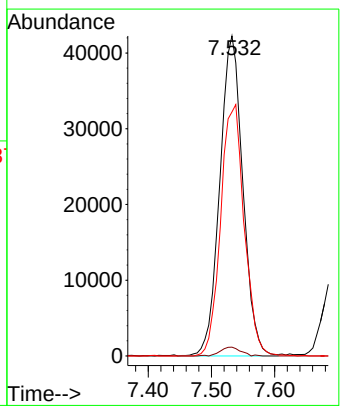


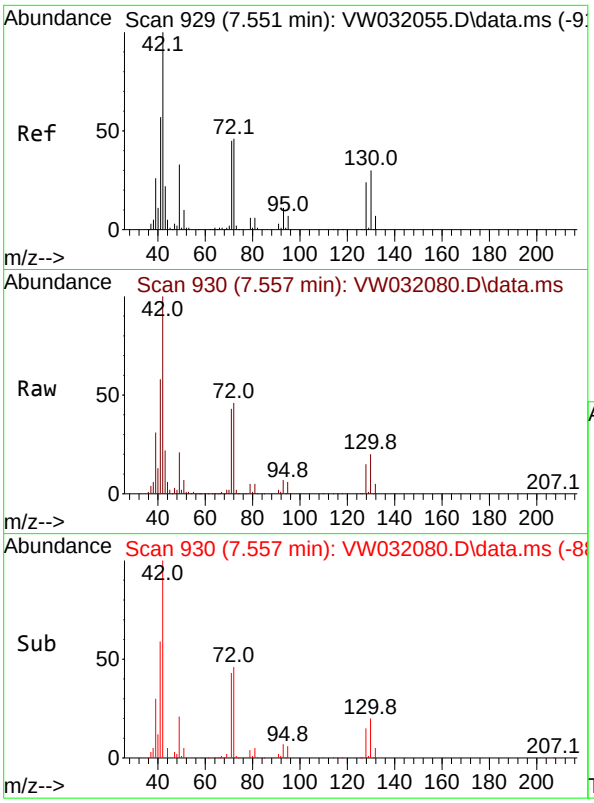


#28
Bromochloromethane
Concen: 47.126 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 49 Resp: 106726

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	80.3	61.9	92.9



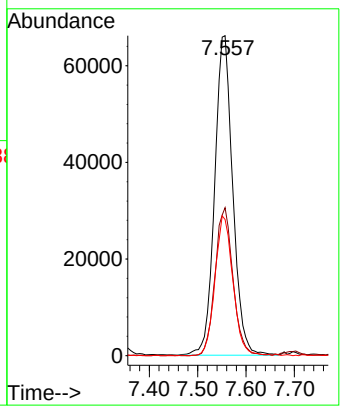


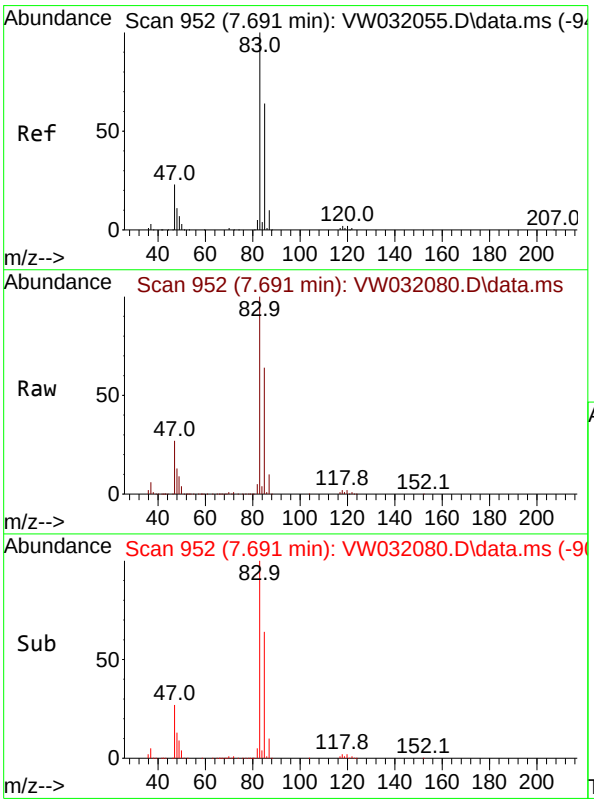
#29
Tetrahydrofuran
Concen: 261.846 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 172032

Ion	Ratio	Lower	Upper
42	100		
72	45.9	36.6	55.0
71	43.5	34.7	52.1

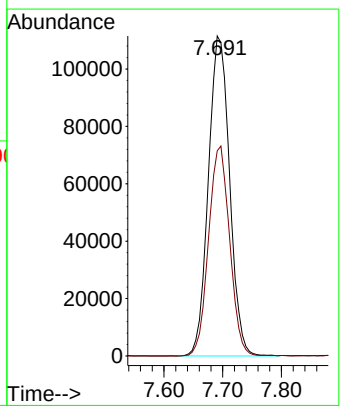


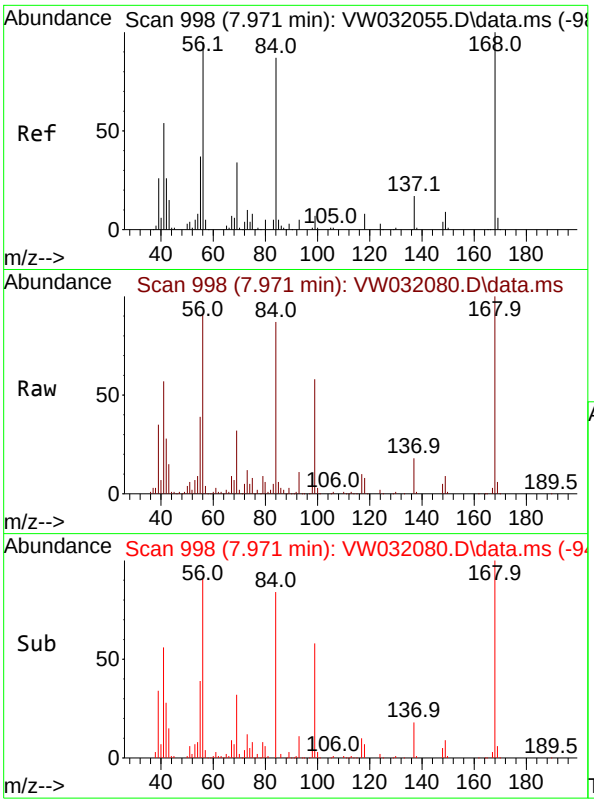


#30
Chloroform
Concen: 53.058 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 83 Resp: 279930

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.4



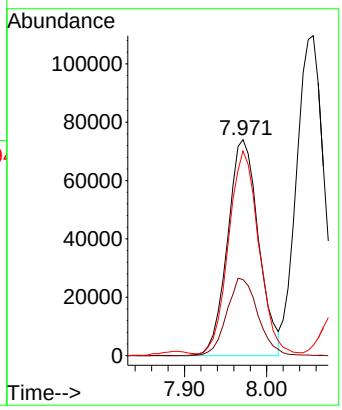


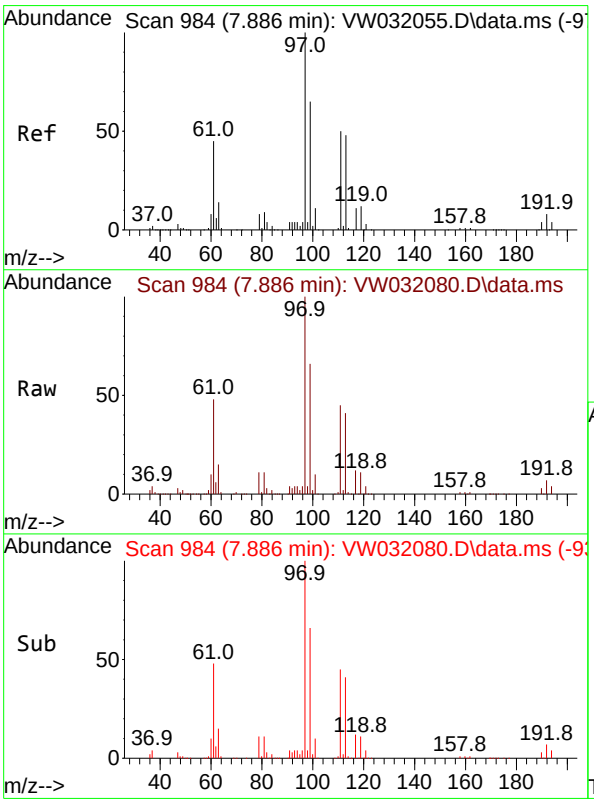
#31
Cyclohexane
Concen: 45.011 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 194201

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.6	42.8
84	92.7	73.0	109.4

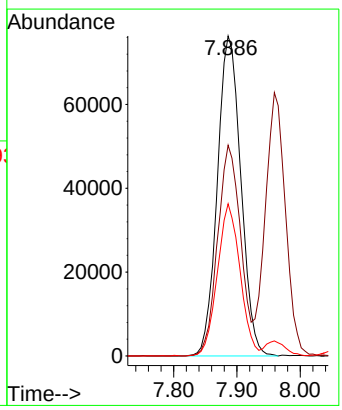


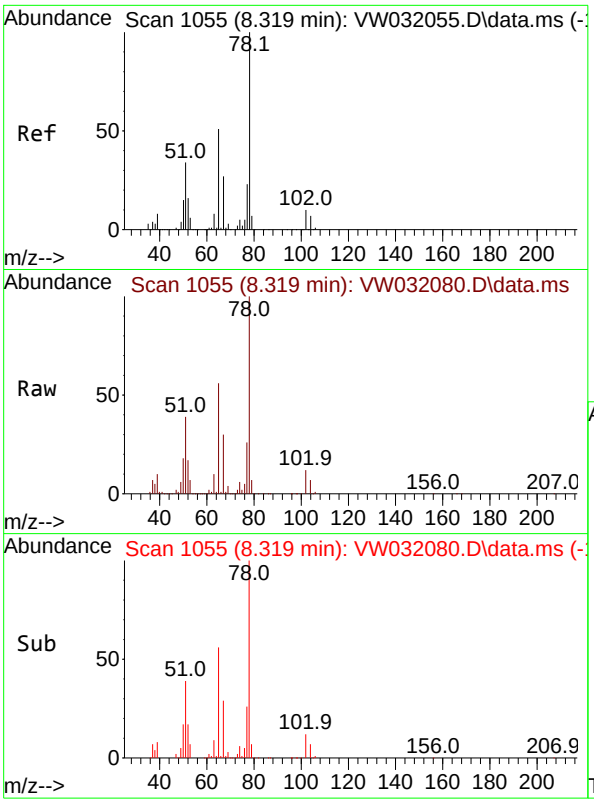


#32
1,1,1-Trichloroethane
Concen: 51.378 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 97 Resp: 196892

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.8	77.8
61	45.9	35.9	53.9



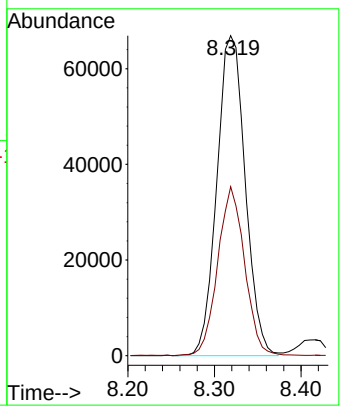


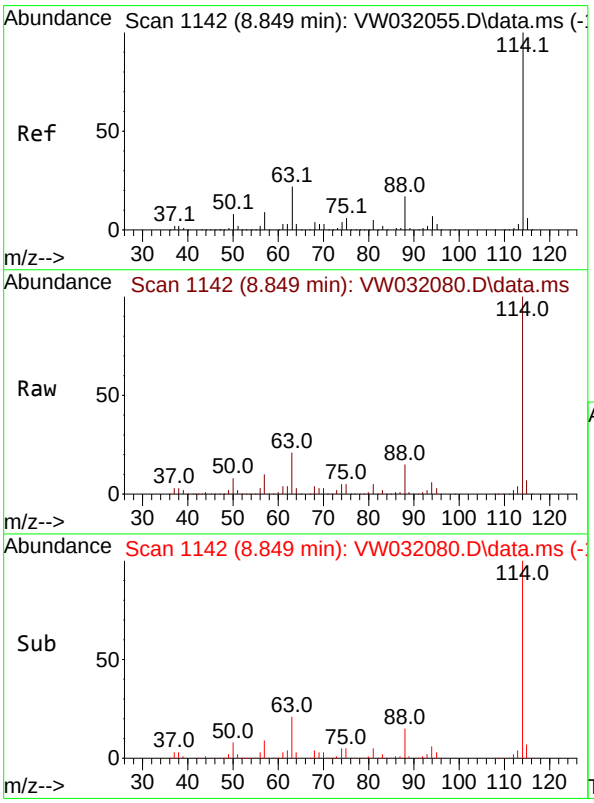
#33
1,2-Dichloroethane-d4
Concen: 50.347 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 152426

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	102.4

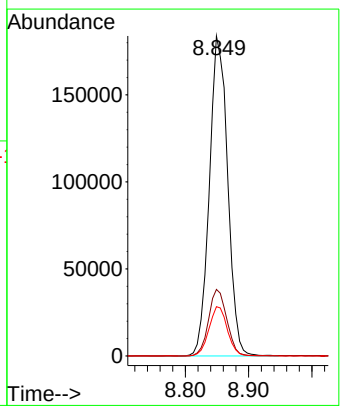


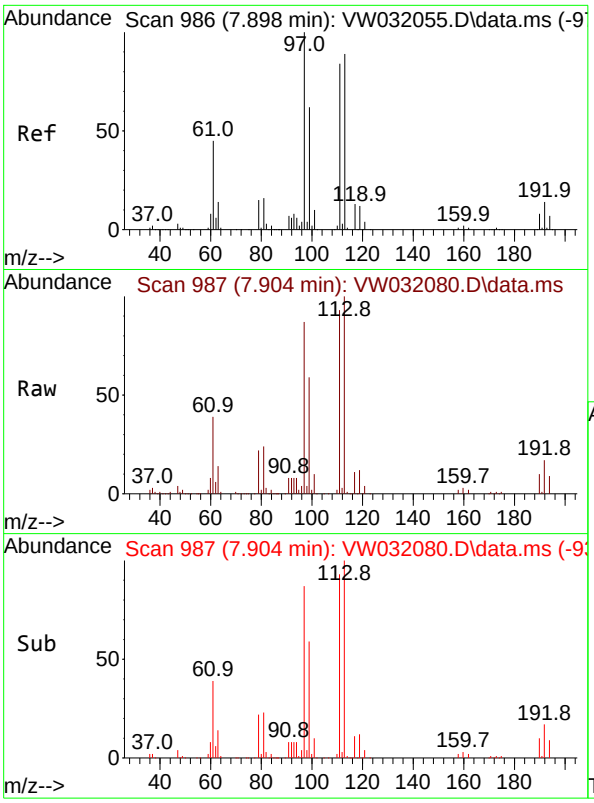


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:114 Resp: 369087

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.0
88	15.4	0.0	33.8



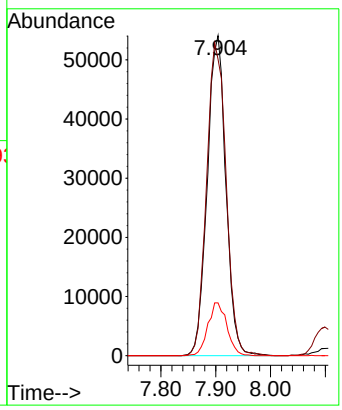


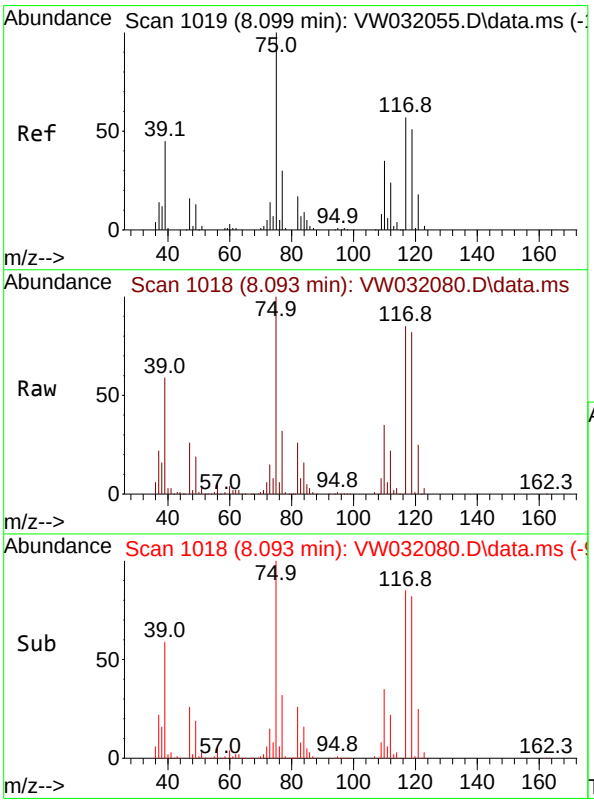
#35
Dibromofluoromethane
Concen: 53.483 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 127528

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.1	120.1
192	16.9	13.1	19.7

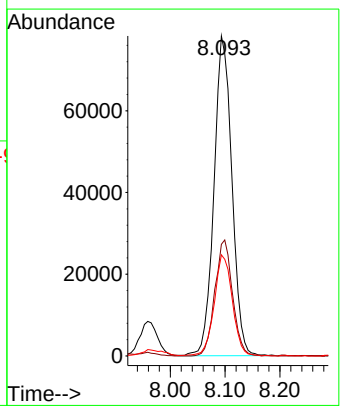


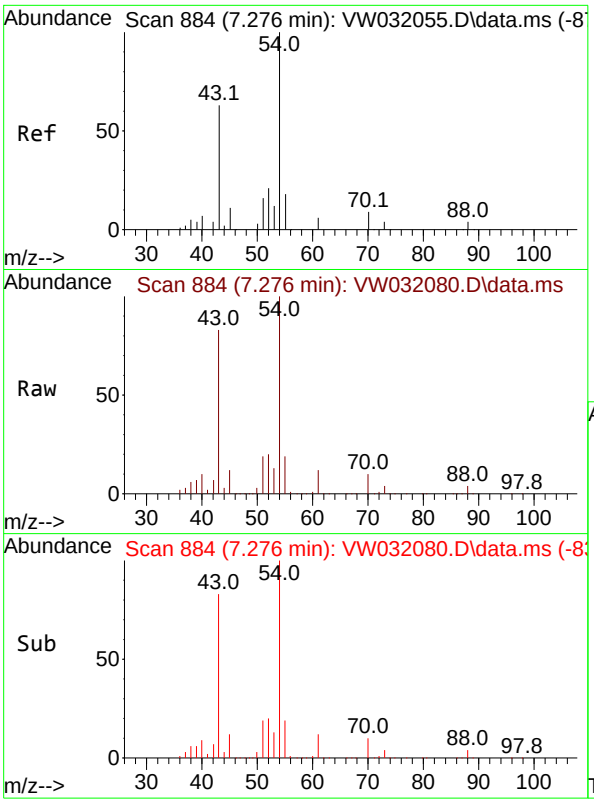


#36
1,1-Dichloropropene
Concen: 53.016 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 178210

Ion	Ratio	Lower	Upper
75	100		
110	35.8	17.4	52.2
77	32.1	24.7	37.1



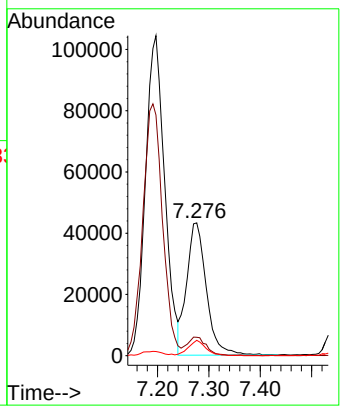


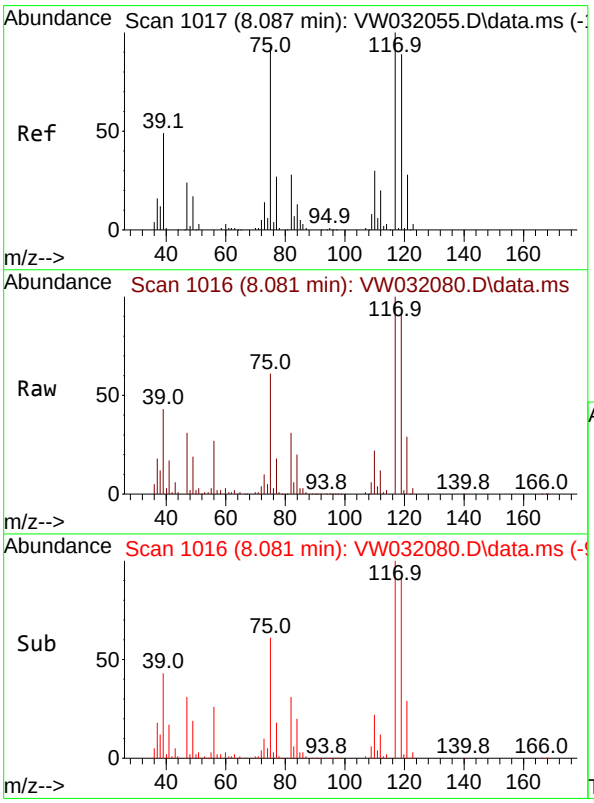
#37
Ethyl Acetate
Concen: 58.145 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 115111

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.8	17.6
70	10.4	9.4	14.0

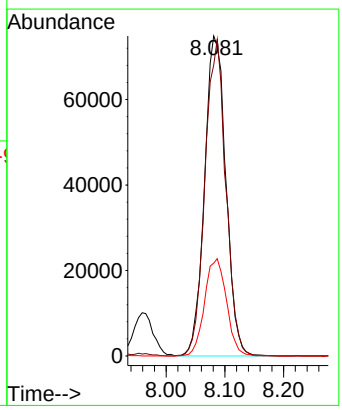


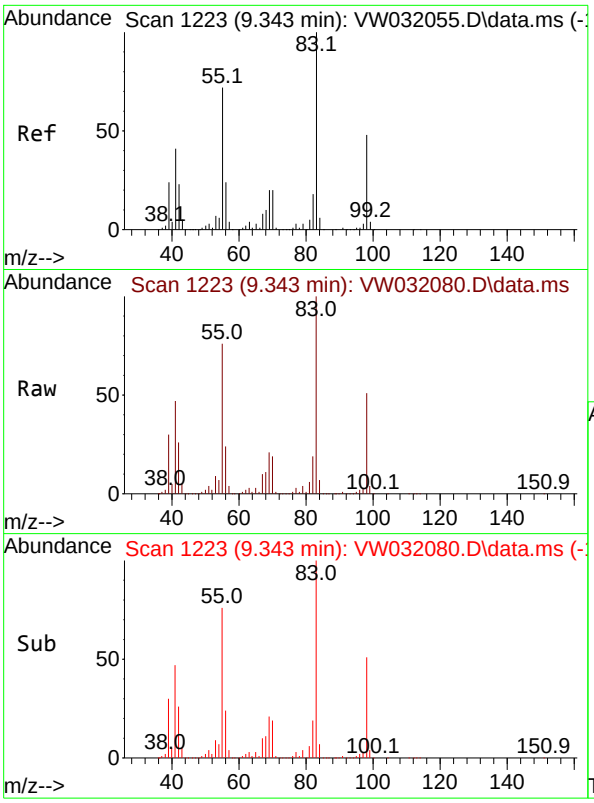


#38
Carbon Tetrachloride
Concen: 58.281 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:117 Resp: 189059

Ion	Ratio	Lower	Upper
117	100		
119	90.9	71.4	107.2
121	29.0	22.3	33.5



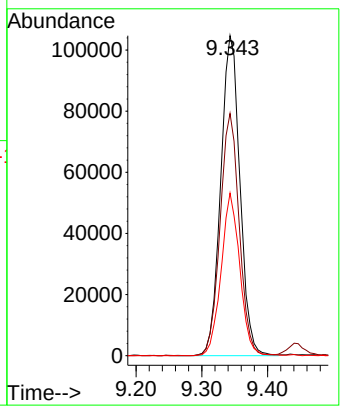


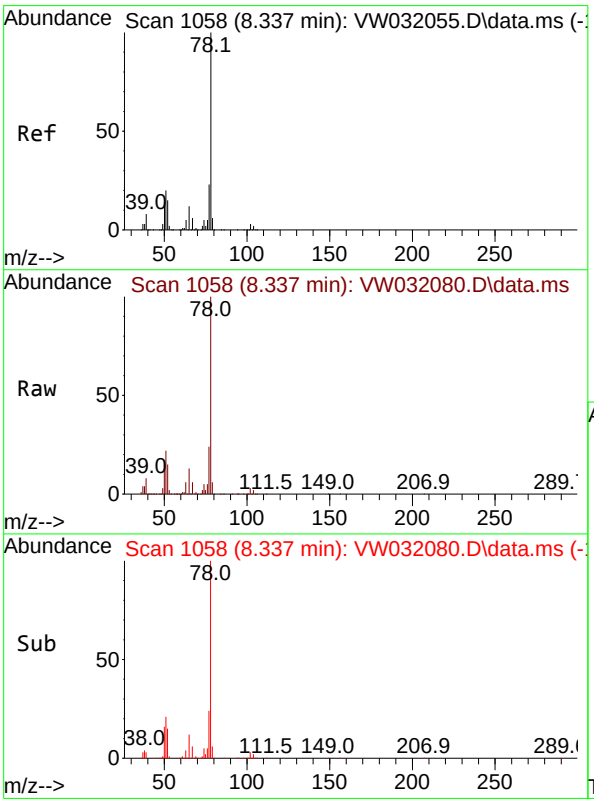
#39
Methylcyclohexane
Concen: 52.018 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 213123

Ion	Ratio	Lower	Upper
83	100		
55	75.6	57.9	86.9
98	50.8	38.3	57.5

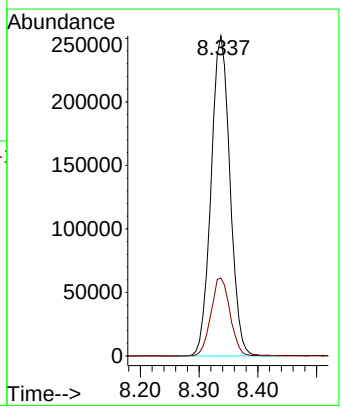


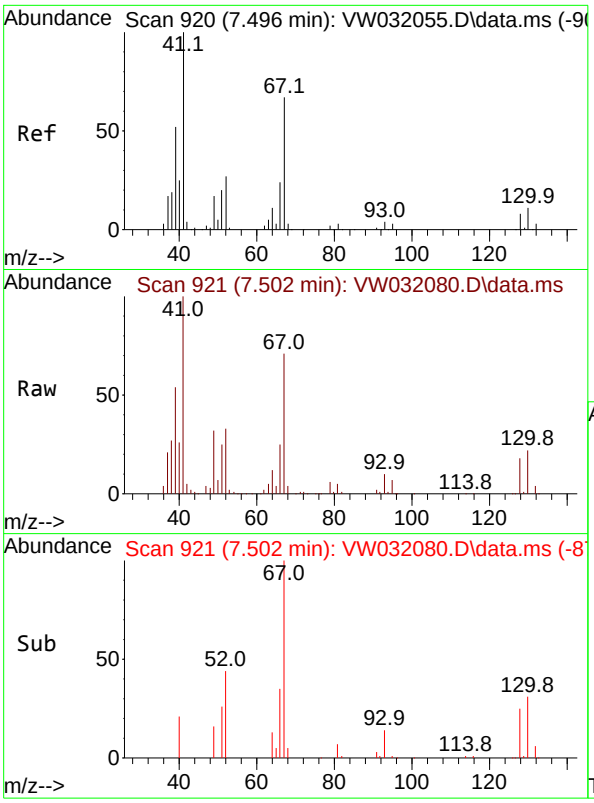


#40
Benzene
Concen: 53.892 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 78 Resp: 563104

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.4	27.6



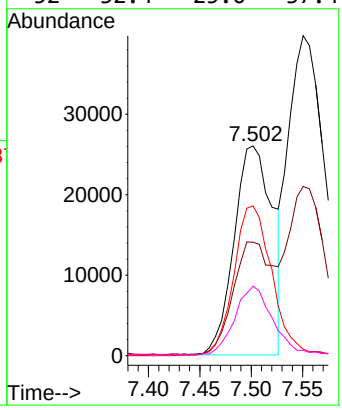


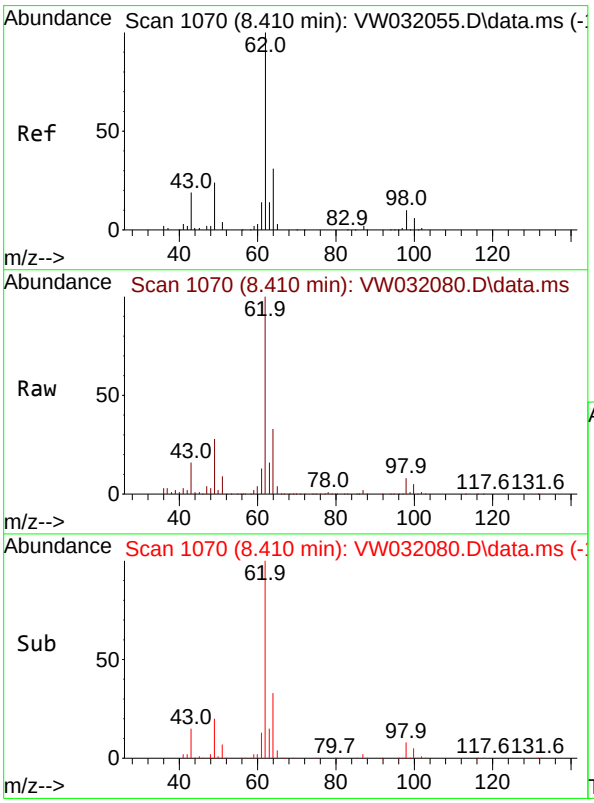
#41
Methacrylonitrile
Concen: 60.380 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 67789

Ion	Ratio	Lower	Upper
41	100		
39	56.8	42.6	63.8
67	71.2	61.0	91.4
52	32.4	25.0	37.4

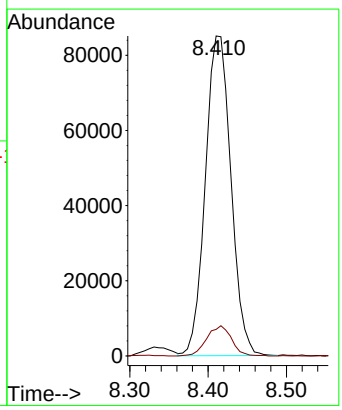


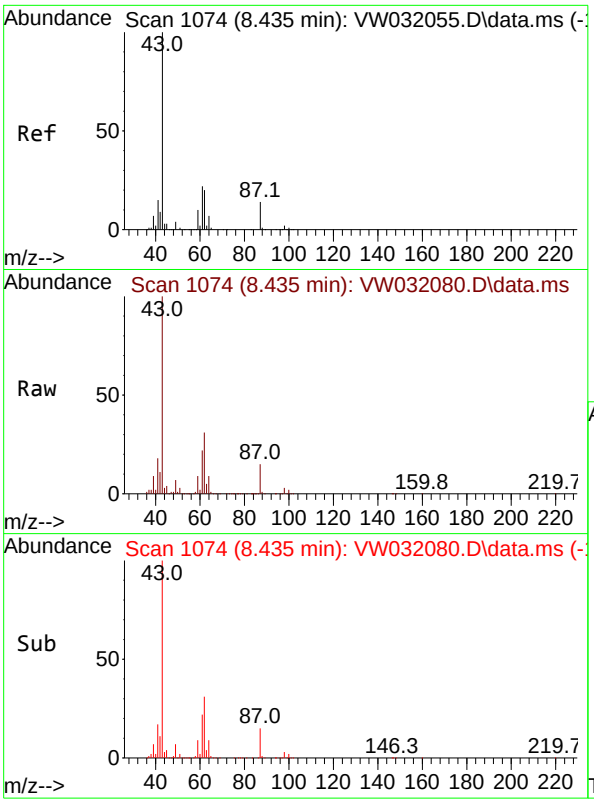


#42
1,2-Dichloroethane
Concen: 57.820 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 62 Resp: 193320

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.8



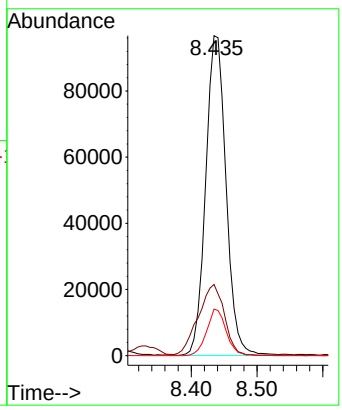


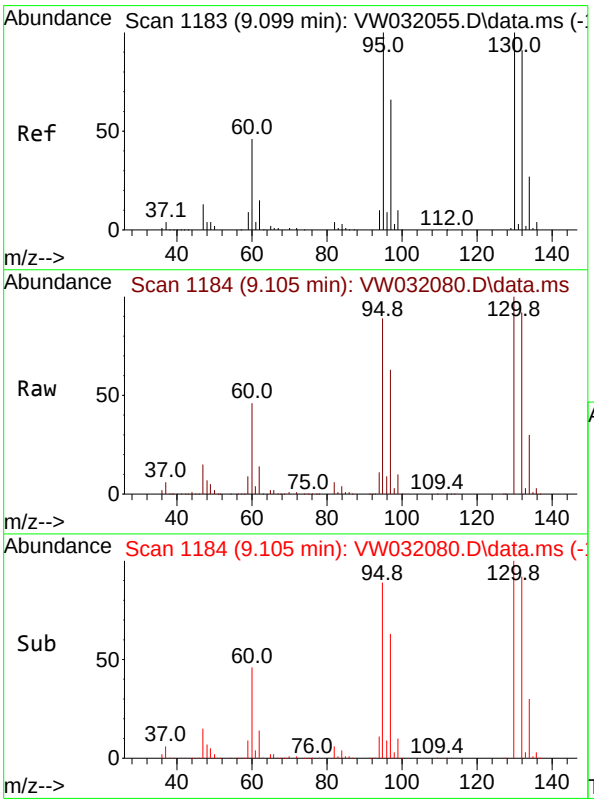
#43
Isopropyl Acetate
Concen: 57.148 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 208154

Ion	Ratio	Lower	Upper
43	100		
61	28.3	23.8	35.8
87	14.0	11.7	17.5

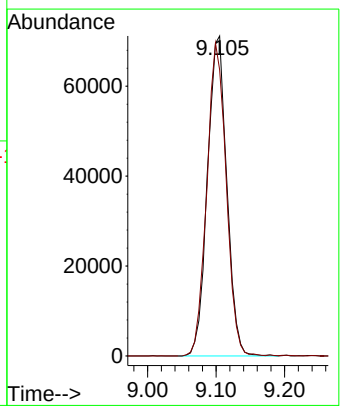


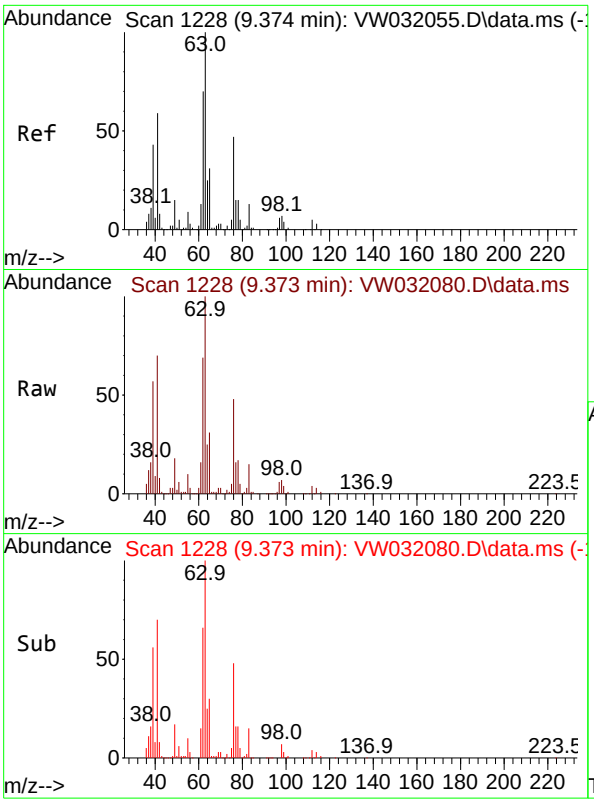


#44
Trichloroethene
Concen: 56.237 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:130 Resp: 139933

Ion	Ratio	Lower	Upper
130	100		
95	89.4	0.0	200.6



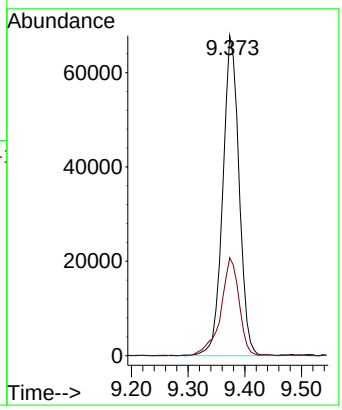


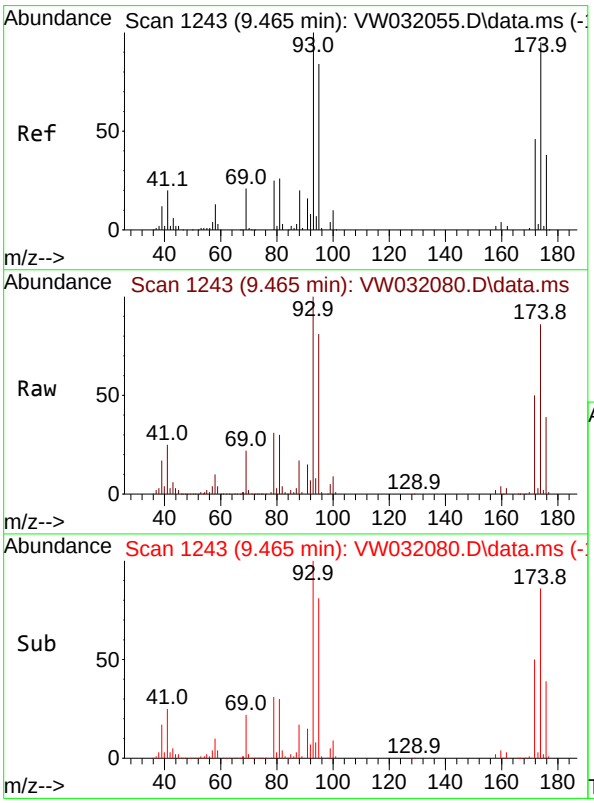
#45
1,2-Dichloropropane
Concen: 53.705 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 135567

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.6	36.8

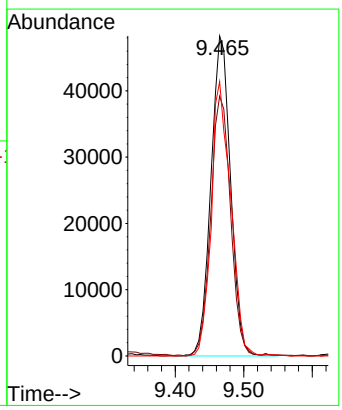


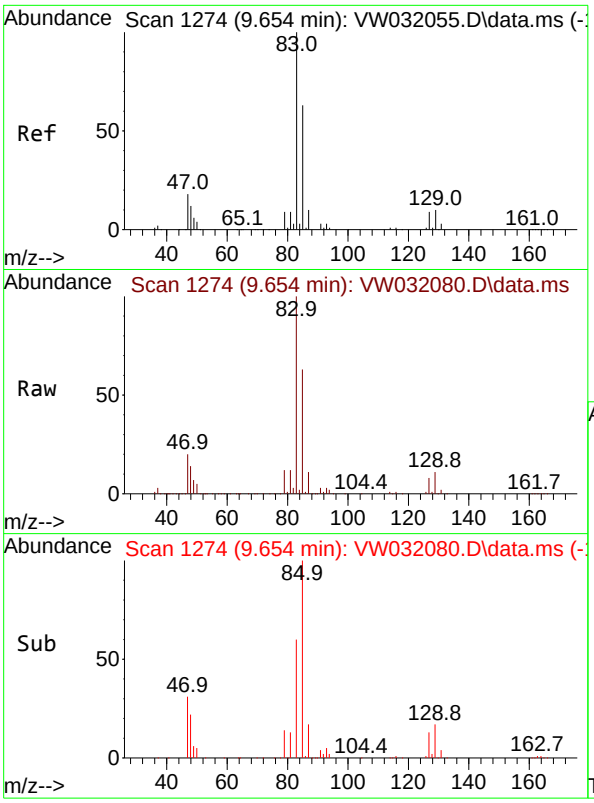


#46
Dibromomethane
Concen: 58.920 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 93 Resp: 95991

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.3	97.9
174	84.8	68.6	102.8



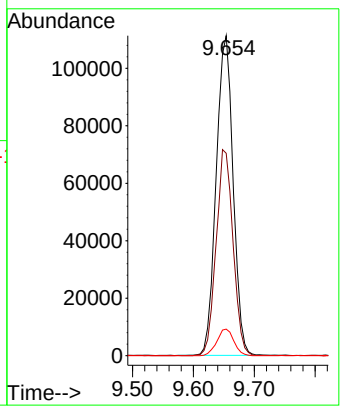


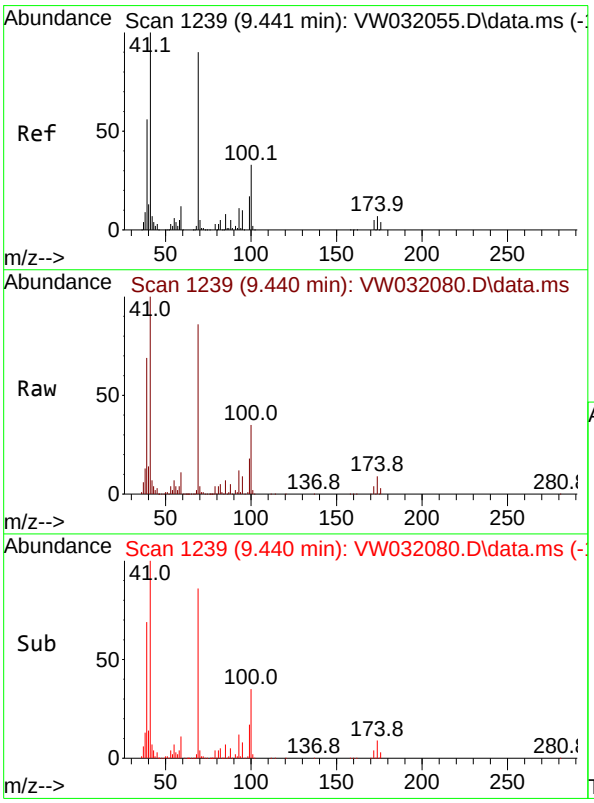
#47
Bromodichloromethane
Concen: 57.226 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 214831

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.3	6.9	10.3

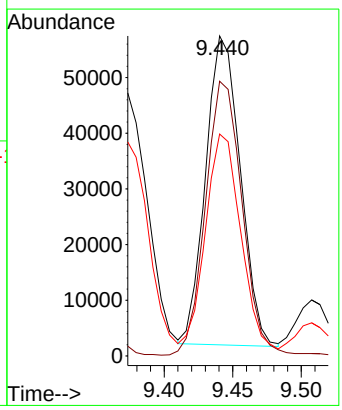


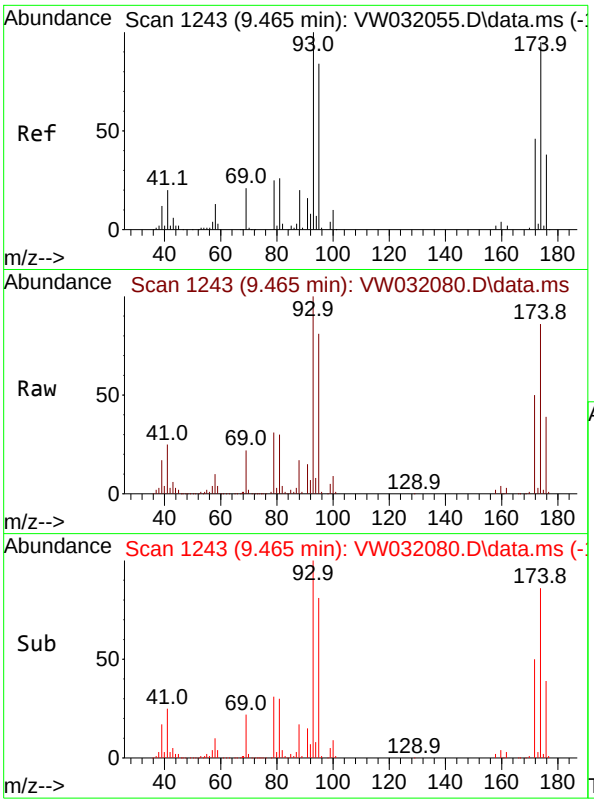


#48
Methyl methacrylate
Concen: 55.521 ug/l
RT: 9.440 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 41 Resp: 97630

Ion	Ratio	Lower	Upper
41	100		
69	94.2	73.0	109.6
39	74.6	45.0	67.4#



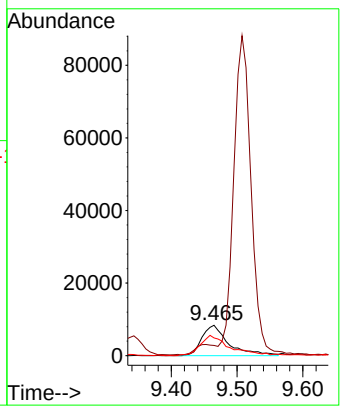


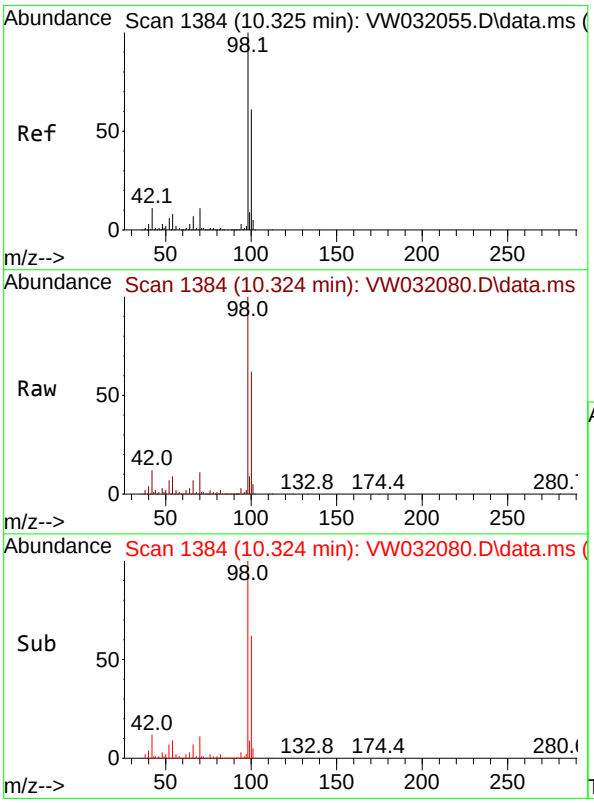
#49
1,4-Dioxane
Concen: 1132.752 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 23861

Ion	Ratio	Lower	Upper
88	100		
43	24.1	20.6	30.8
58	74.5	60.4	90.6

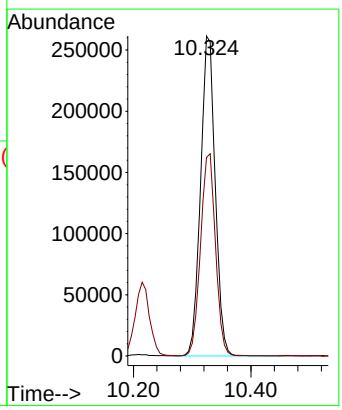


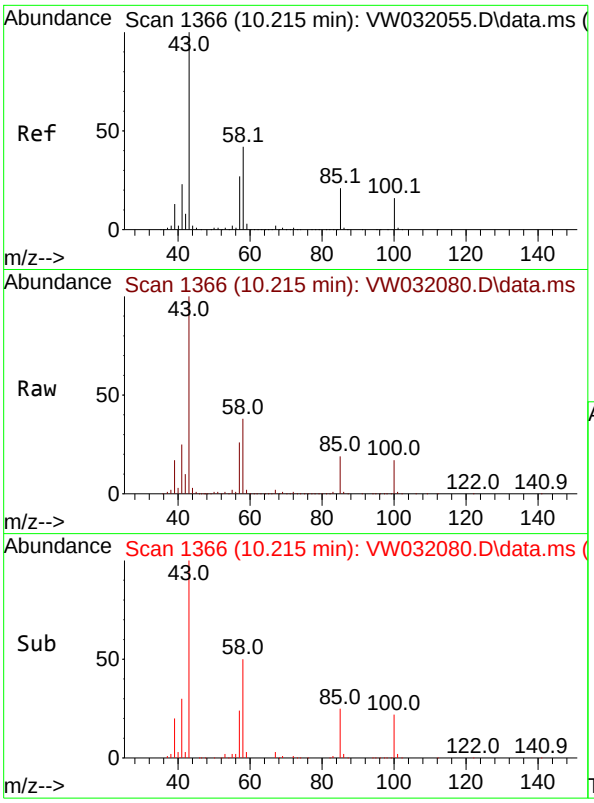


#50
Toluene-d8
Concen: 51.355 ug/l
RT: 10.324 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 98 Resp: 452920

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.1	76.7



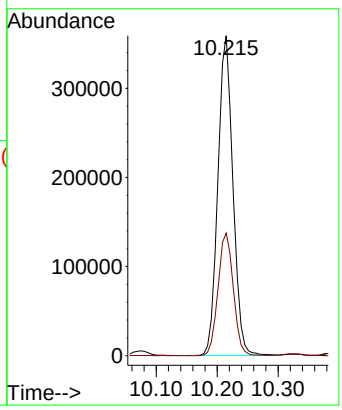


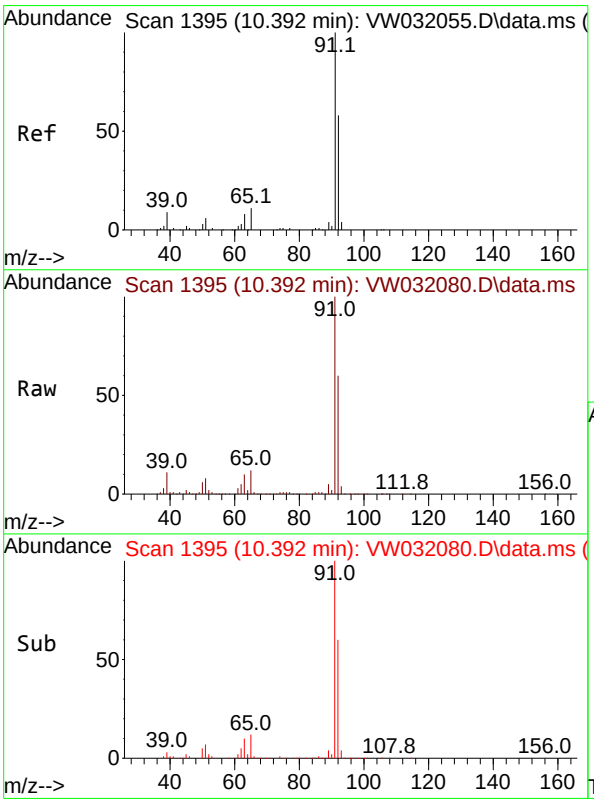
#51
4-Methyl-2-Pentanone
Concen: 298.600 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 613885

Ion	Ratio	Lower	Upper
43	100		
58	39.1	33.1	49.7

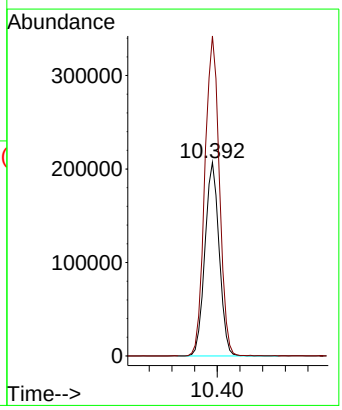


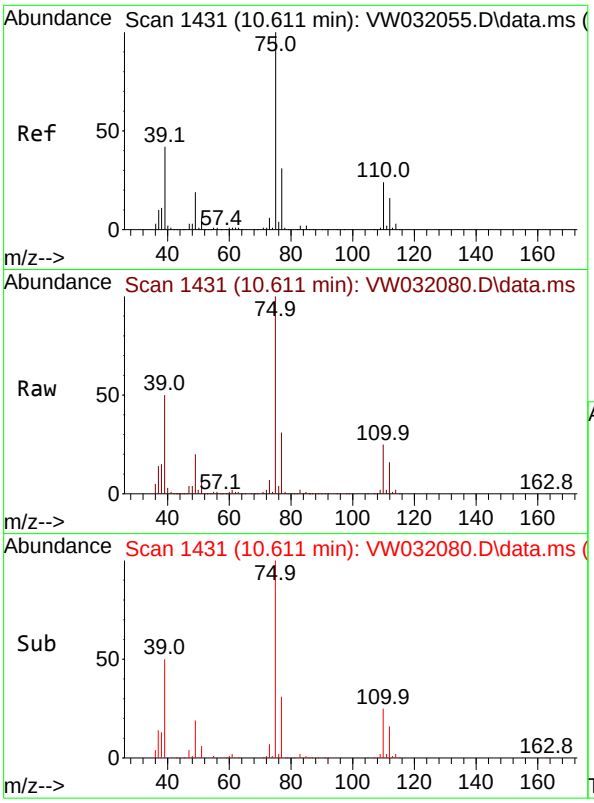


#52
Toluene
Concen: 54.839 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 92 Resp: 360912

Ion	Ratio	Lower	Upper
92	100		
91	168.5	136.3	204.5



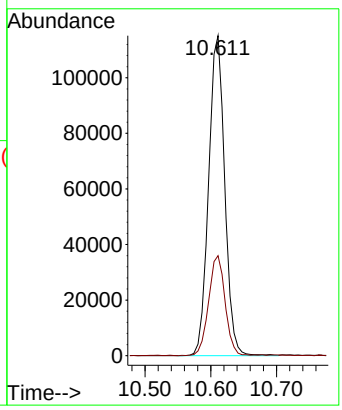


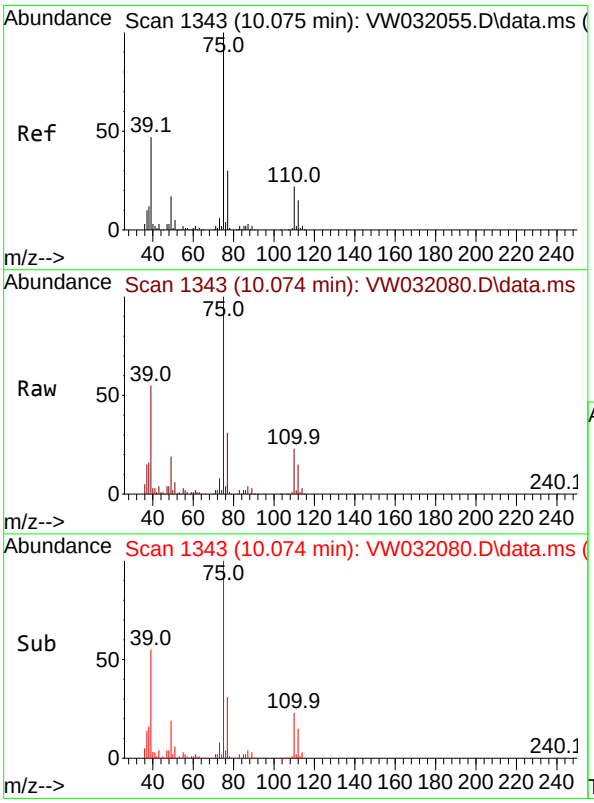
#53
t-1,3-Dichloropropene
Concen: 55.768 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 196142

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

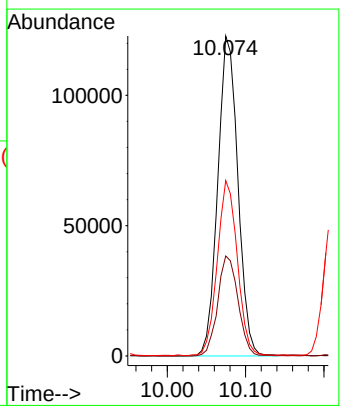


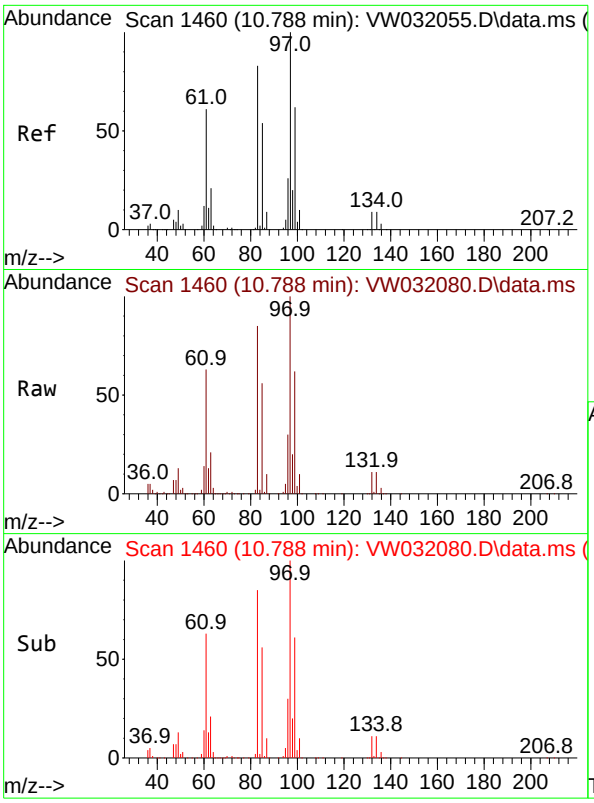


#54
cis-1,3-Dichloropropene
Concen: 54.997 ug/l
RT: 10.074 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 219444

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.0	36.0
39	54.5	37.8	56.8



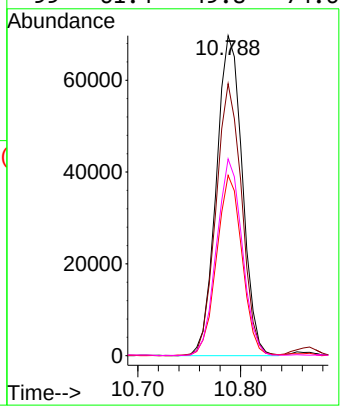


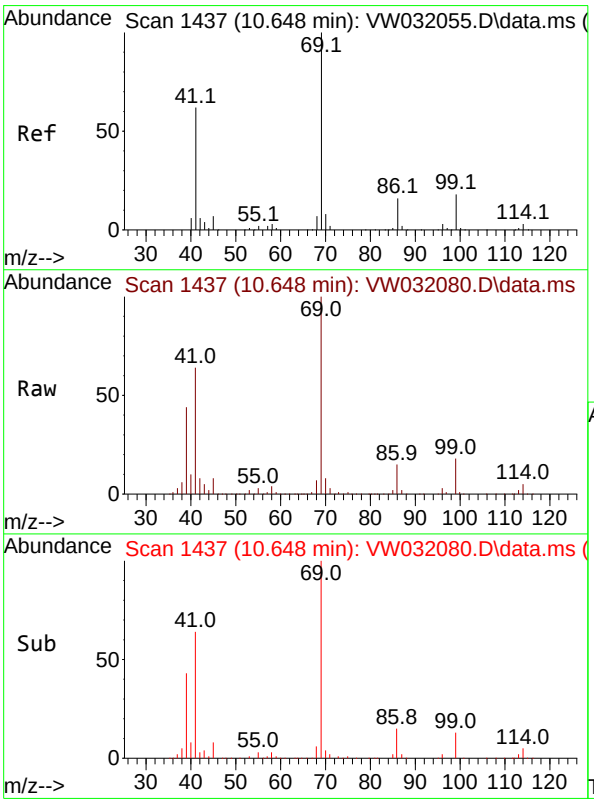
#55
1,1,2-Trichloroethane
Concen: 56.613 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 122561

Ion	Ratio	Lower	Upper
97	100		
83	85.0	66.4	99.6
85	56.1	43.1	64.7
99	61.4	49.8	74.6

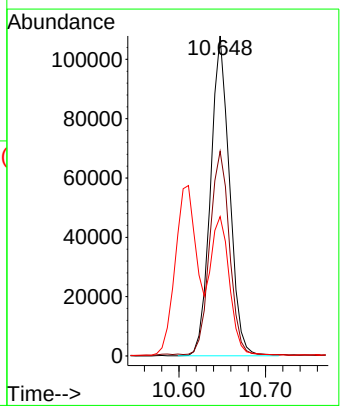


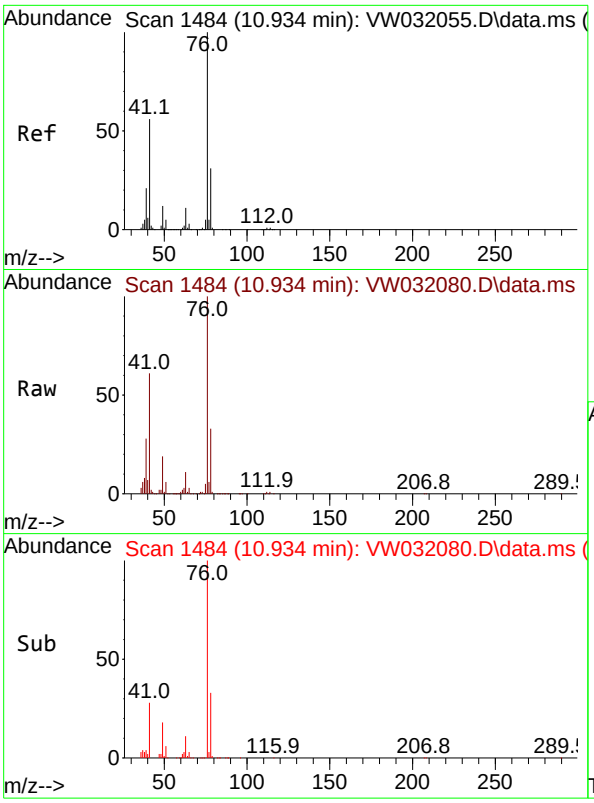


#56
Ethyl methacrylate
Concen: 56.621 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 69 Resp: 164035

Ion	Ratio	Lower	Upper
69	100		
41	66.3	51.2	76.8
39	43.0	25.4	38.0#



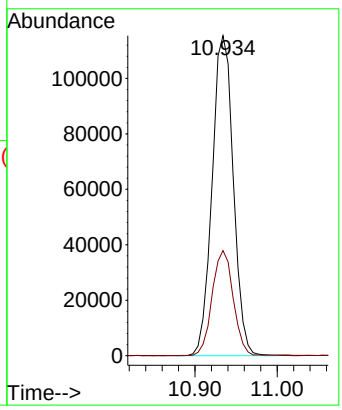


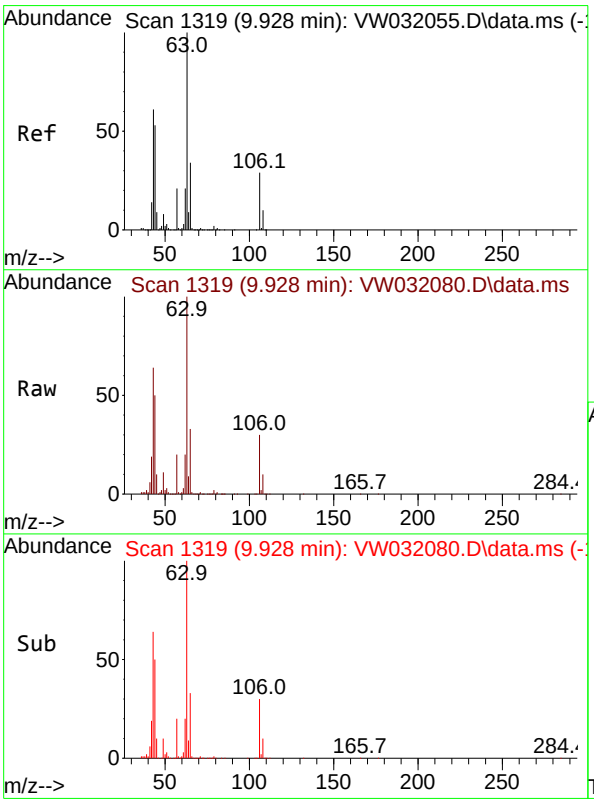
#57
1,3-Dichloropropane
Concen: 54.740 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 206568

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.6

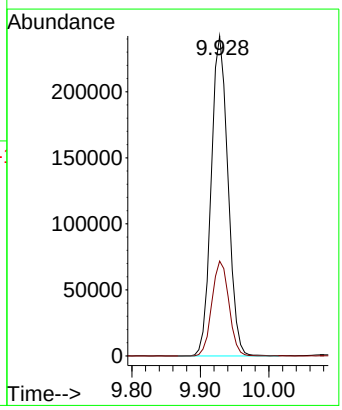


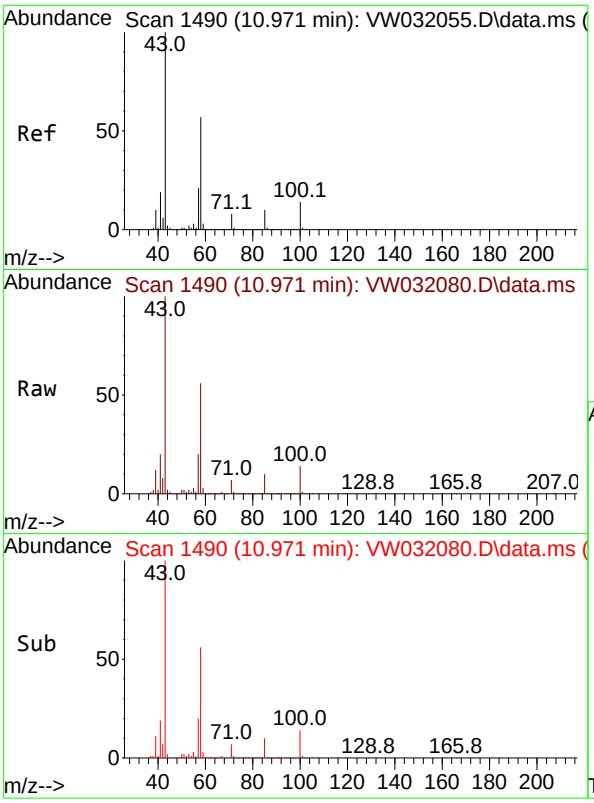


#58
2-Chloroethyl Vinyl ether
Concen: 256.070 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 63 Resp: 410338

Ion	Ratio	Lower	Upper
63	100		
106	30.1	23.5	35.3



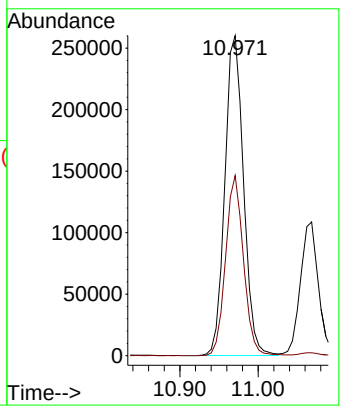


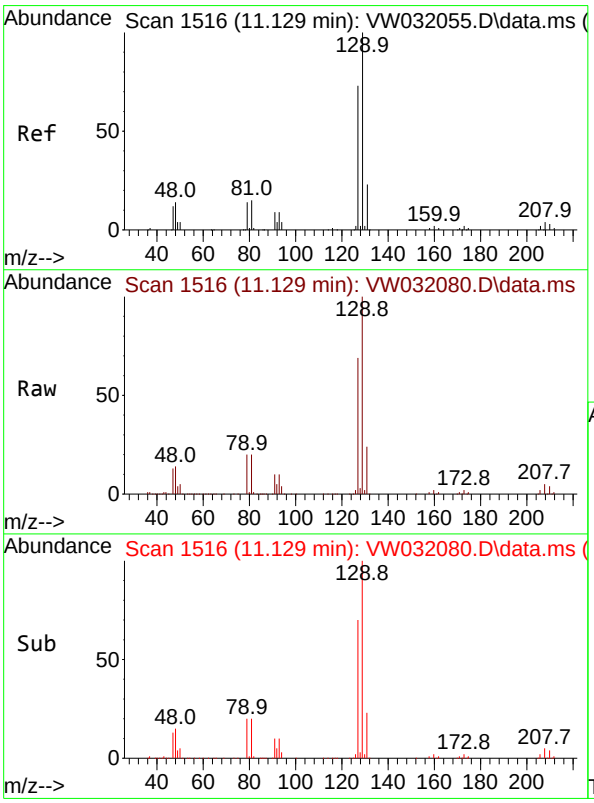
#59
2-Hexanone
Concen: 303.226 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 431742

Ion	Ratio	Lower	Upper
43	100		
58	53.9	28.3	85.0

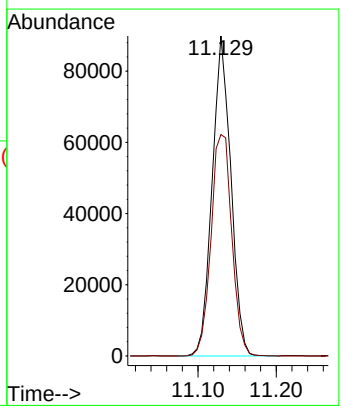


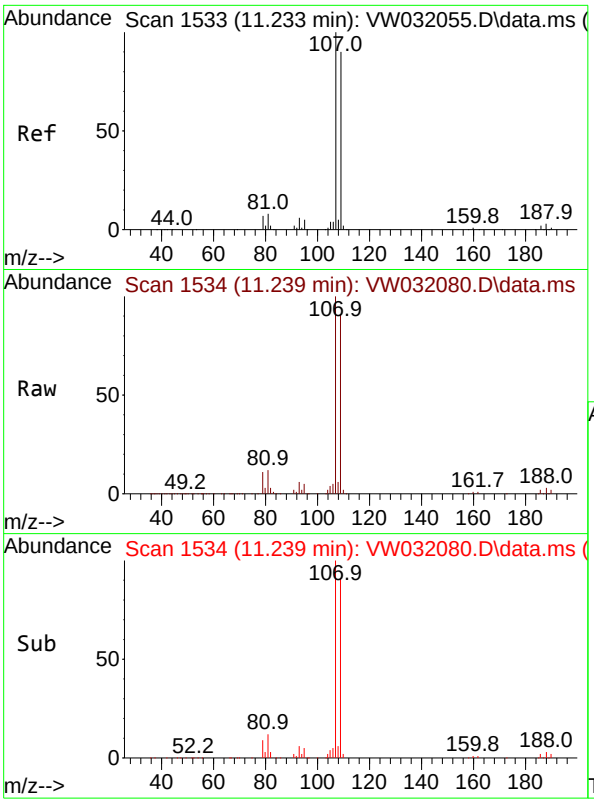


#60
Dibromochloromethane
Concen: 60.364 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:129 Resp: 149280

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9



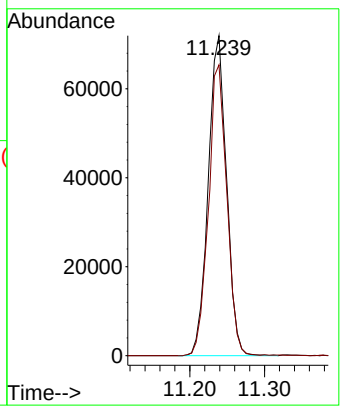


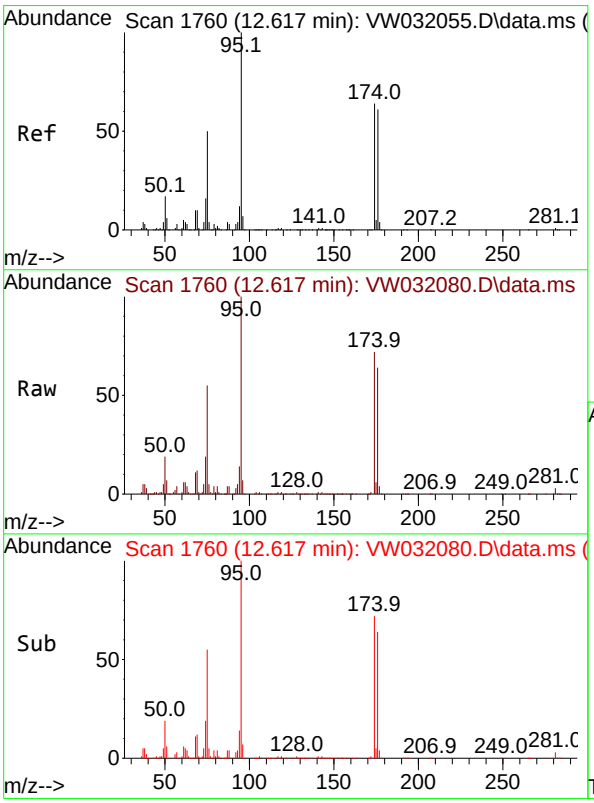
#61
1,2-Dibromoethane
Concen: 58.108 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 122248

Ion	Ratio	Lower	Upper
107	100		
109	91.1	74.2	111.4

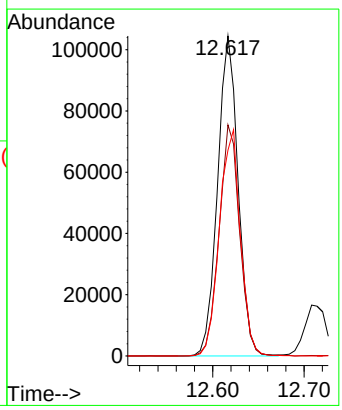


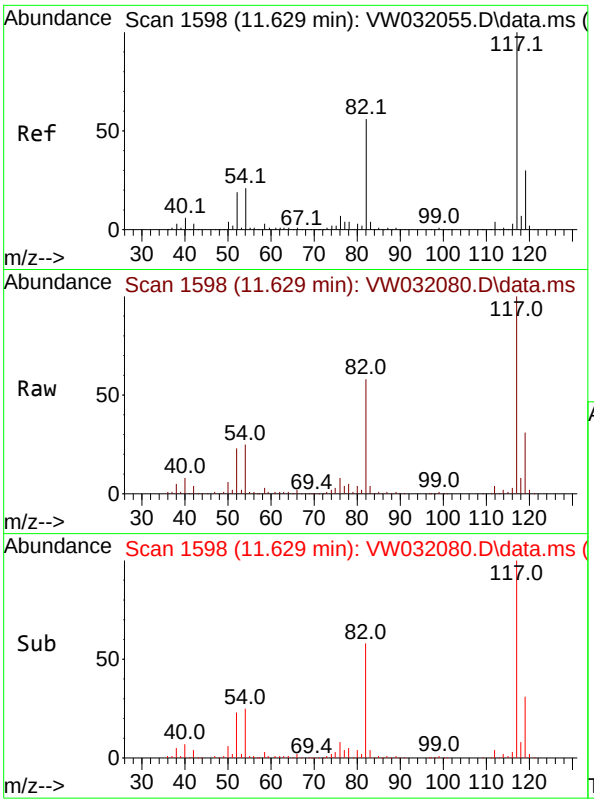


#62
4-Bromofluorobenzene
Concen: 50.275 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 95 Resp: 163398

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	129.0
176	72.4	0.0	124.6



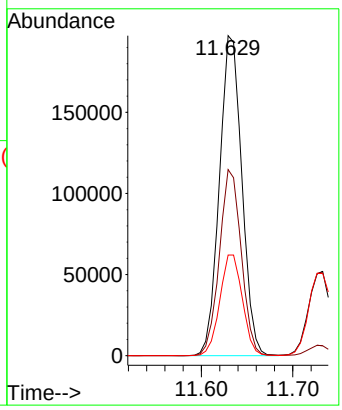


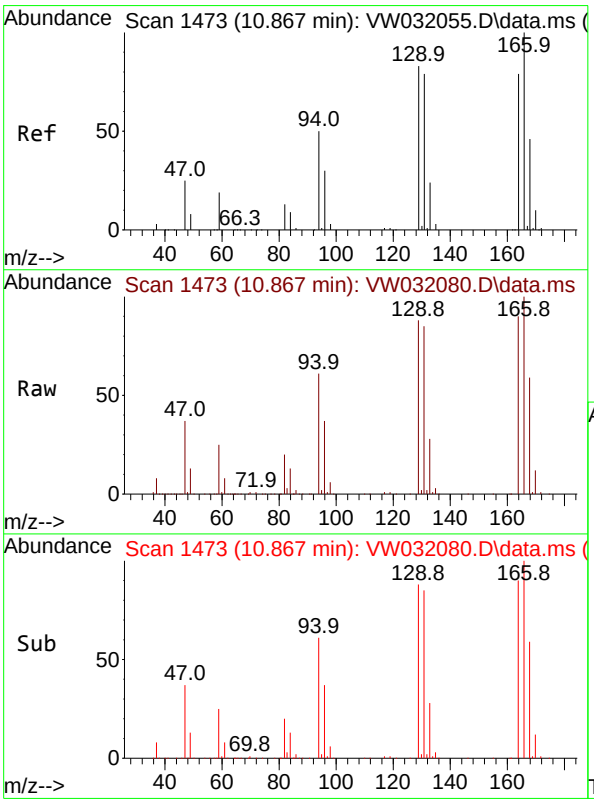
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 337227

Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.0	67.4
119	31.5	24.2	36.4

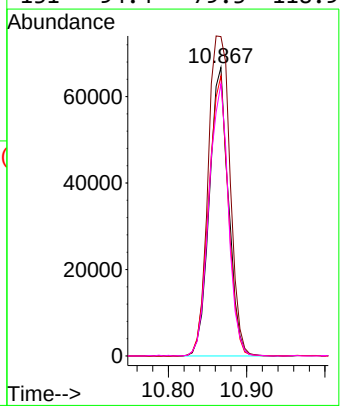


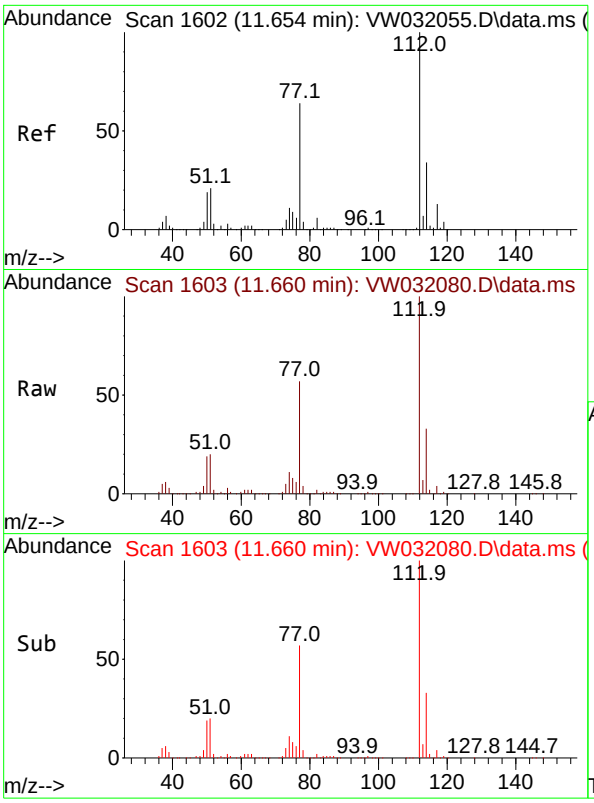


#64
Tetrachloroethene
Concen: 57.783 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:164 Resp: 112551

Ion	Ratio	Lower	Upper
164	100		
166	110.7	100.9	151.3
129	97.1	83.6	125.4
131	94.4	79.3	118.9



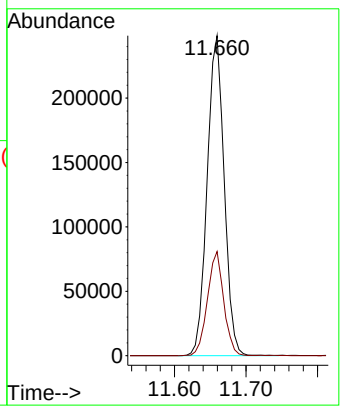


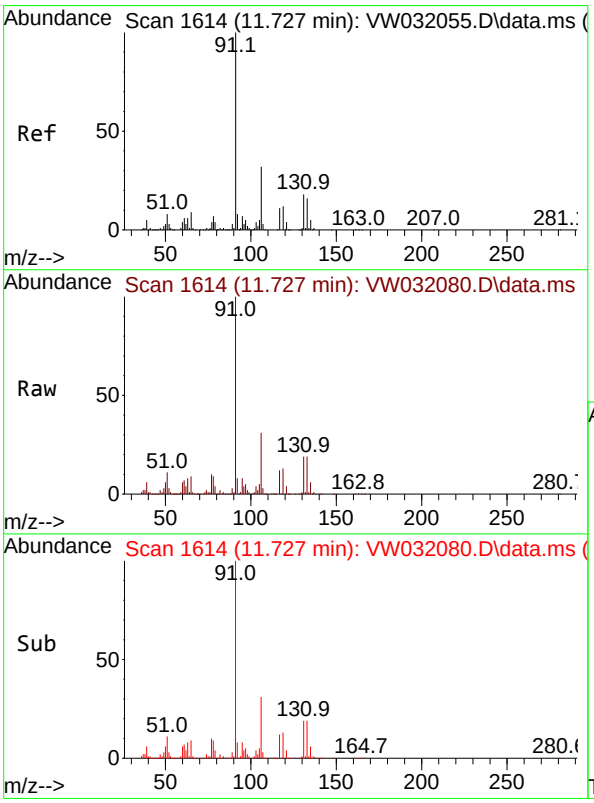
#65
Chlorobenzene
Concen: 55.882 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 410189

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.9	40.3

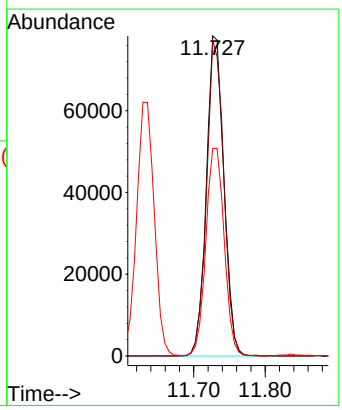


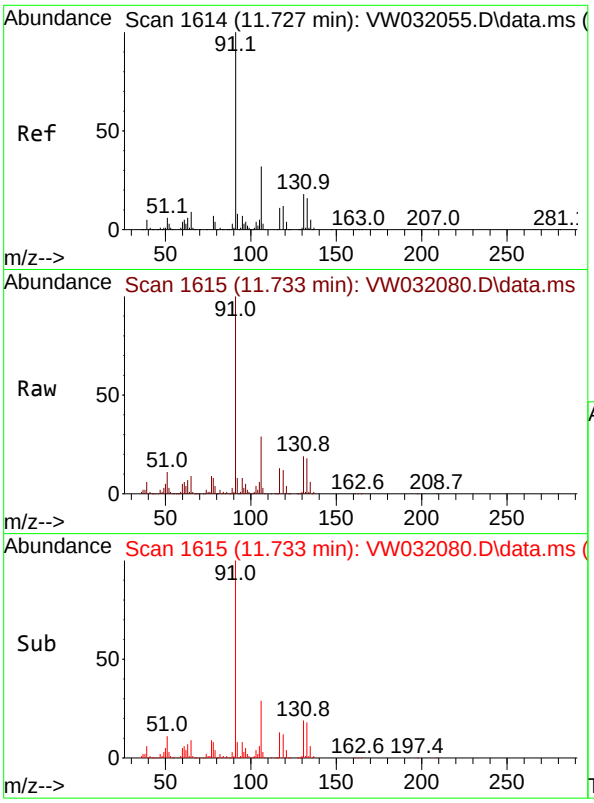


#66
1,1,1,2-Tetrachloroethane
Concen: 58.241 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:131 Resp: 133382

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.3	142.0
119	67.9	34.5	103.5



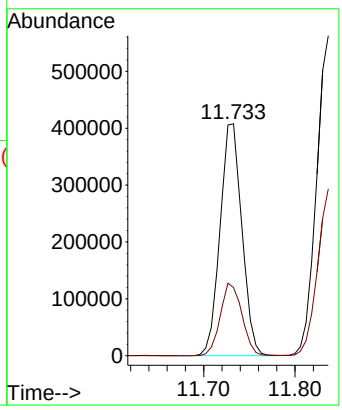


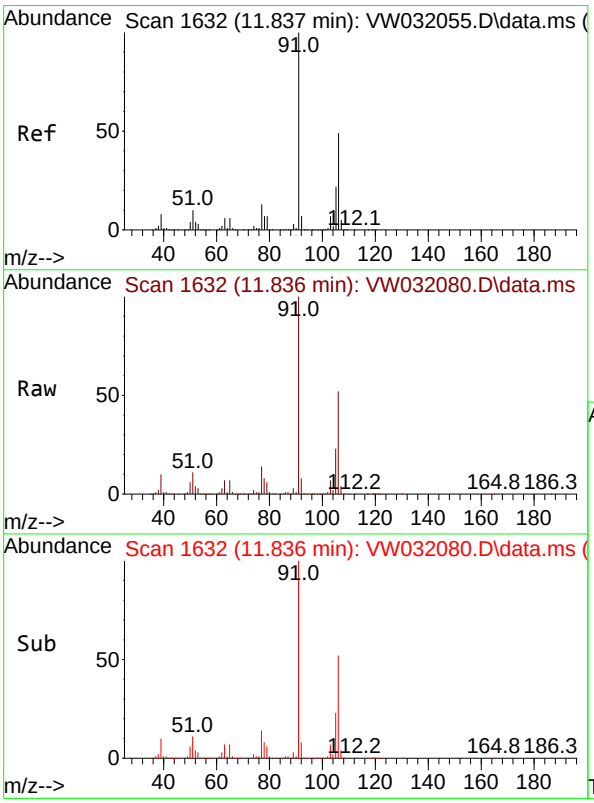
#67
Ethyl Benzene
Concen: 54.505 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 677681

Ion	Ratio	Lower	Upper
91	100		
106	29.4	25.4	38.0

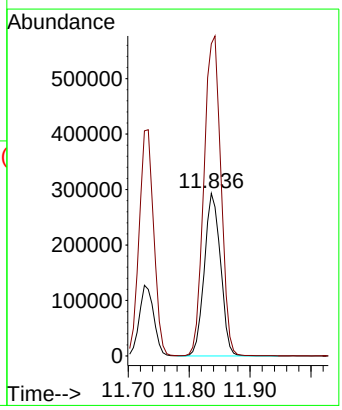


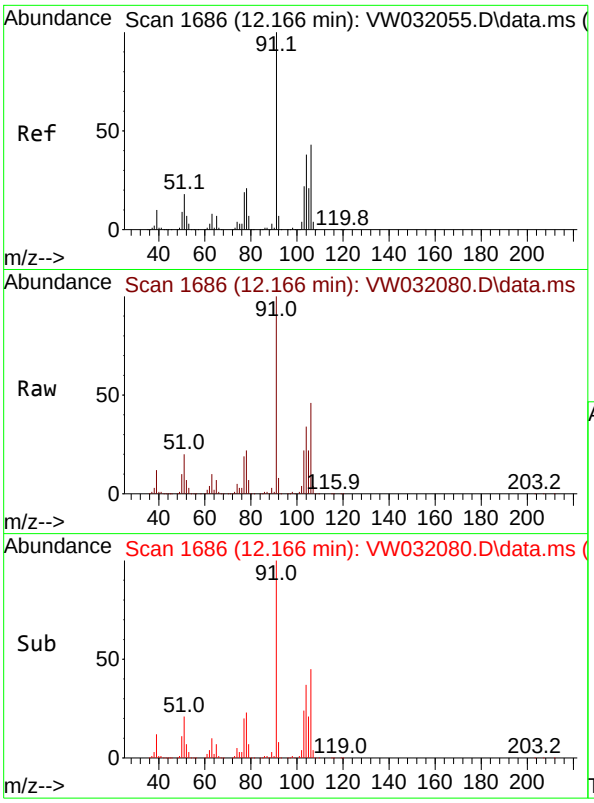


#68
m/p-Xylenes
Concen: 112.646 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:106 Resp: 540433

Ion	Ratio	Lower	Upper
106	100		
91	206.6	162.2	243.2



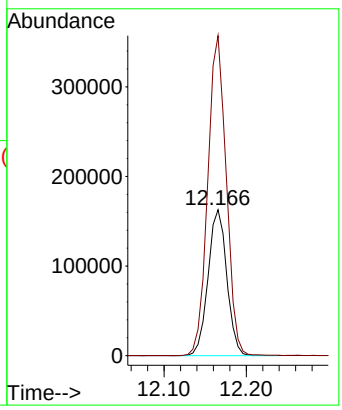


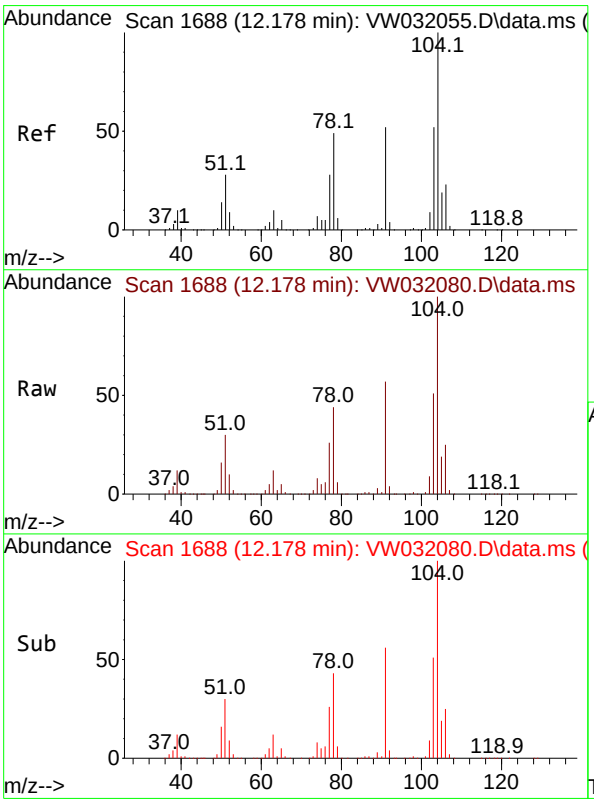
#69
o-Xylene
Concen: 58.137 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 257799

Ion	Ratio	Lower	Upper
106	100		
91	216.5	110.8	332.3

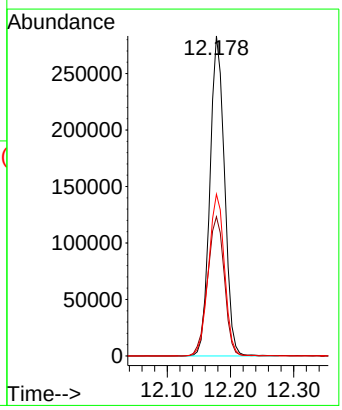


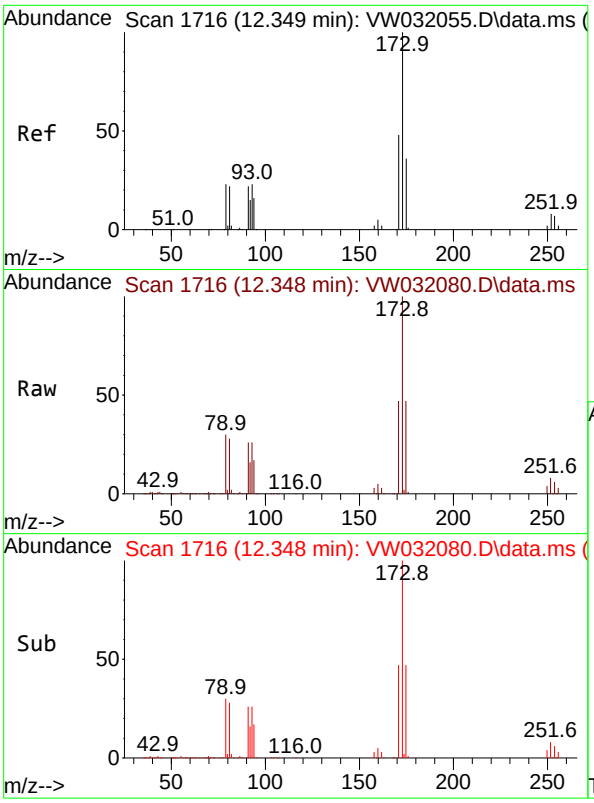


#70
Styrene
Concen: 57.835 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:104 Resp: 455535

Ion	Ratio	Lower	Upper
104	100		
78	49.8	41.2	61.8
103	55.0	43.8	65.8



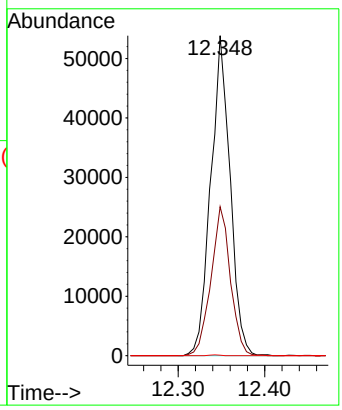


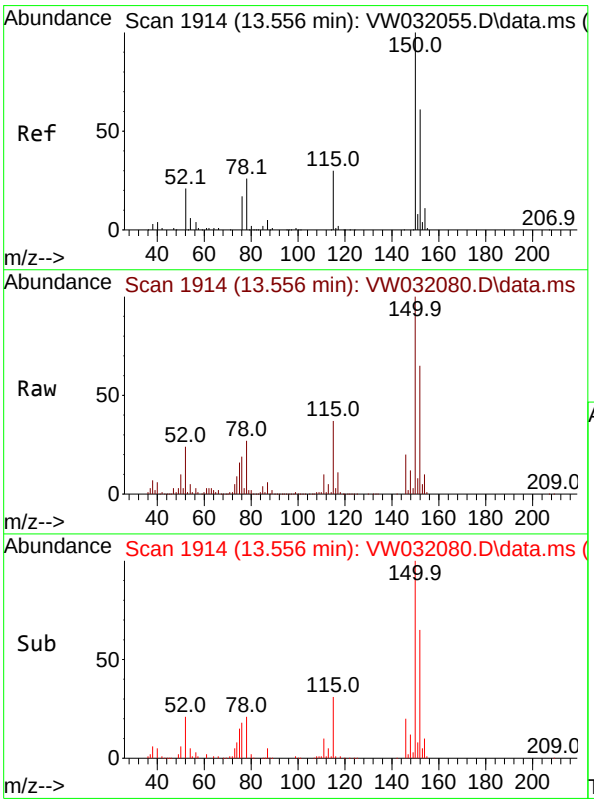
#71
Bromoform
Concen: 63.831 ug/l
RT: 12.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 83619

Ion	Ratio	Lower	Upper
173	100		
175	46.8	22.9	68.7
254	0.1	0.0	0.0#

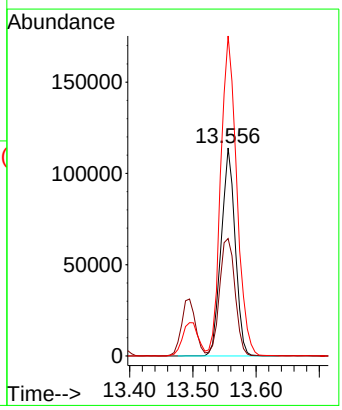


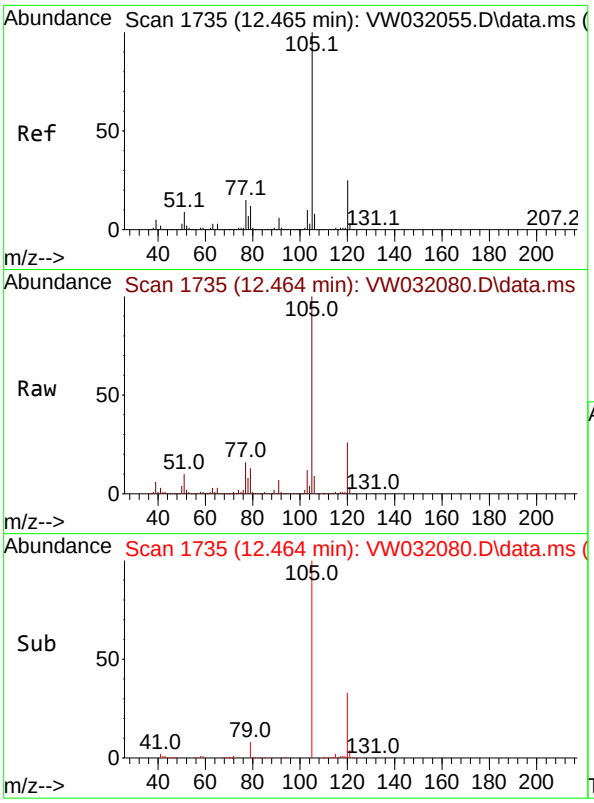


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:152 Resp: 174813

Ion	Ratio	Lower	Upper
152	100		
115	62.3	32.6	97.8
150	175.9	0.0	359.4



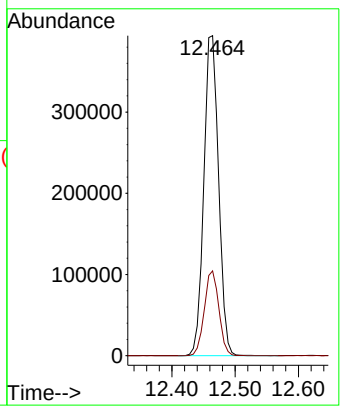


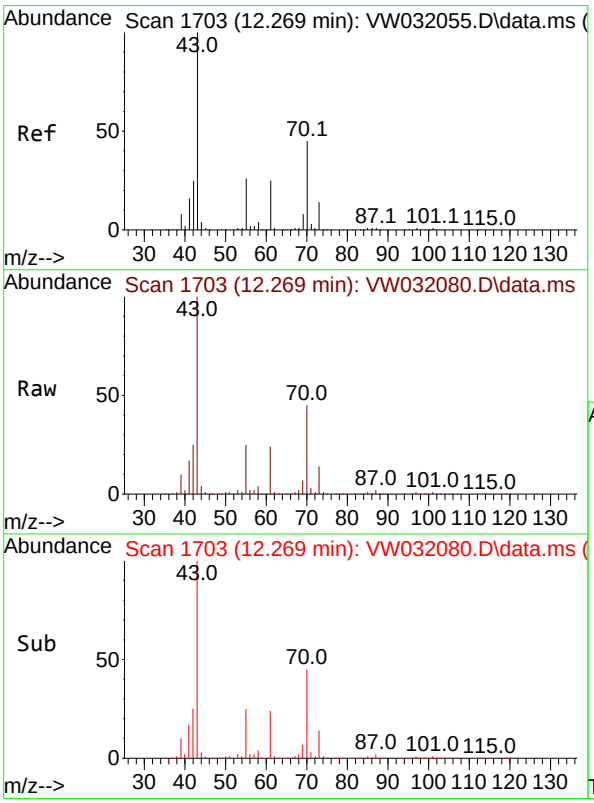
#73
Isopropylbenzene
Concen: 52.307 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 639037

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.4

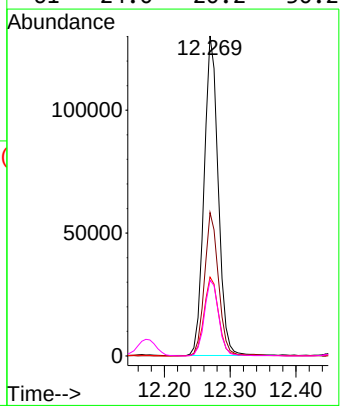


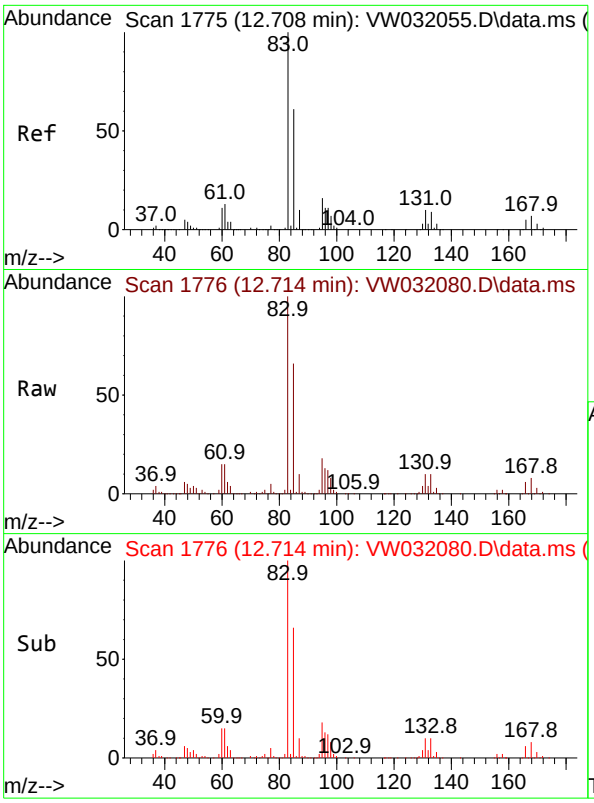


#74
N-amyl acetate
Concen: 55.601 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 43 Resp: 194883

Ion	Ratio	Lower	Upper
43	100		
70	44.4	37.0	55.4
55	25.6	21.1	31.7
61	24.0	20.2	30.2



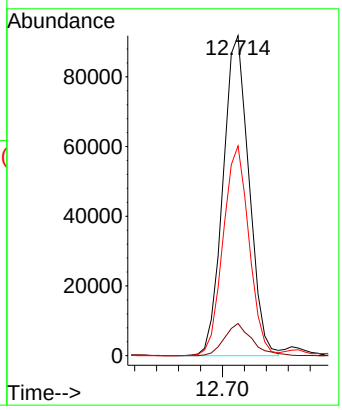


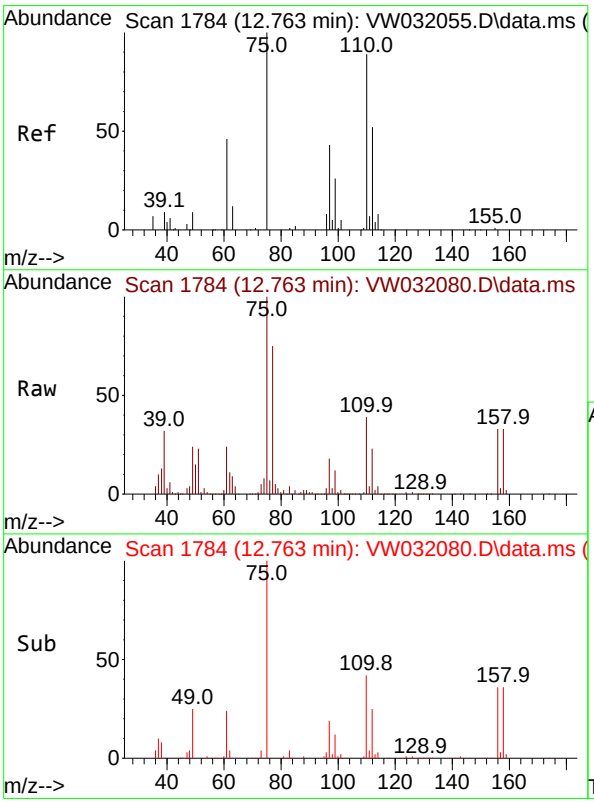
#75
1,1,2,2-Tetrachloroethane
Concen: 52.197 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 151408

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	65.3	32.2	96.6

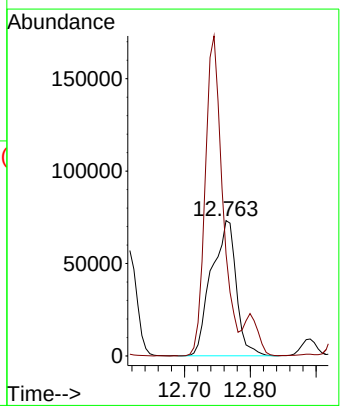


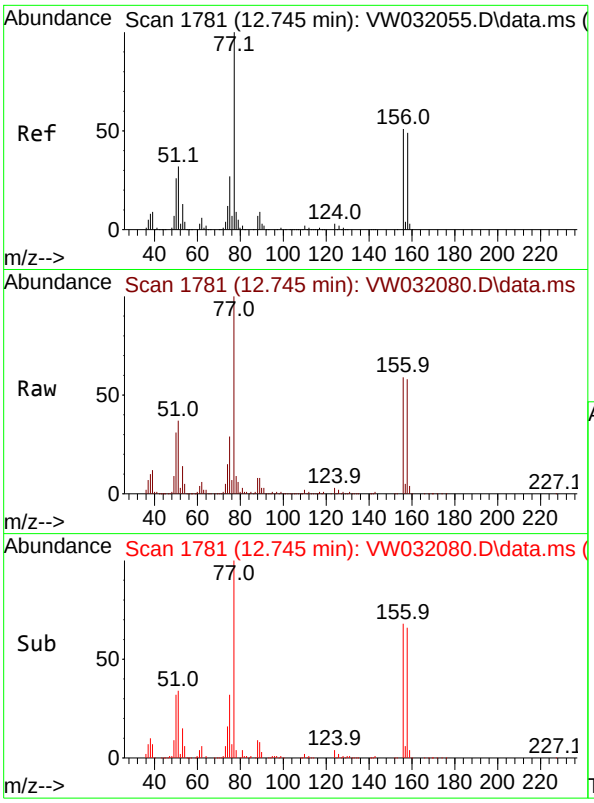


#76
1,2,3-Trichloropropane
Concen: 80.822 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 191760

Ion	Ratio	Lower	Upper
75	100		
77	166.1	123.5	370.5



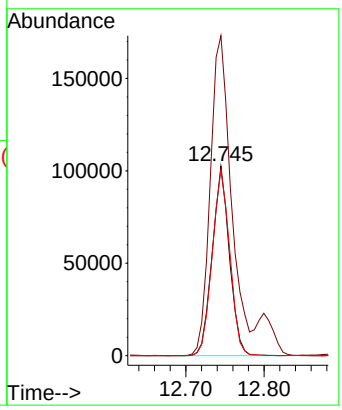


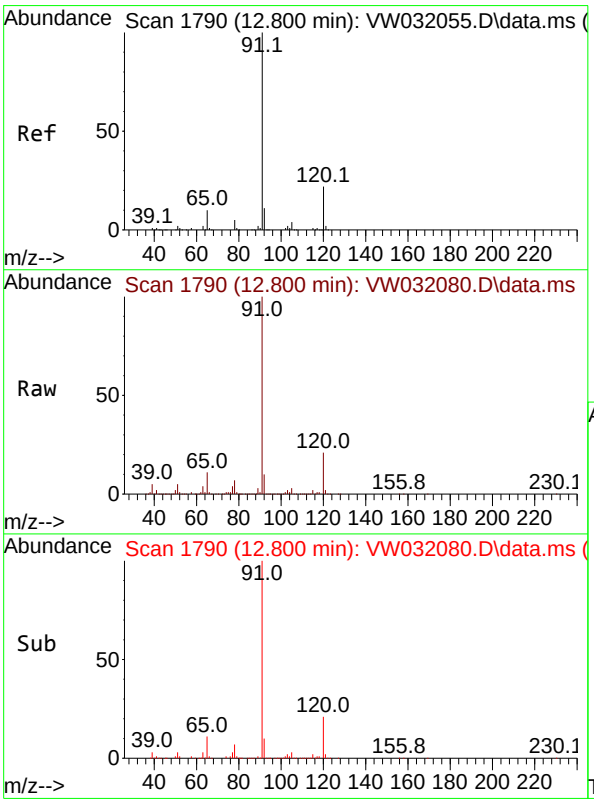
#77
Bromobenzene
Concen: 53.753 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 156846

Ion	Ratio	Lower	Upper
156	100		
77	203.1	108.7	326.3
158	100.2	48.3	144.9

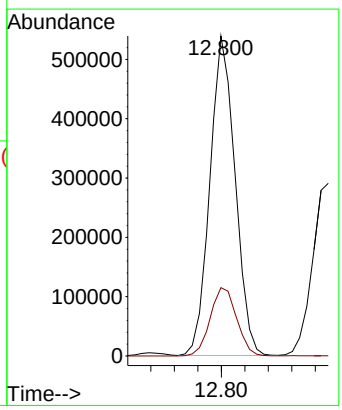


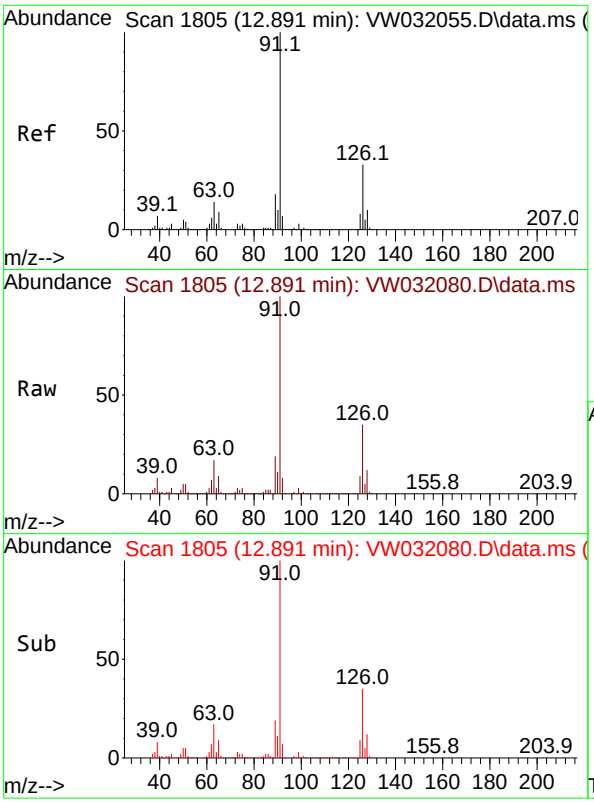


#78
n-propylbenzene
Concen: 53.406 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 803277

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3



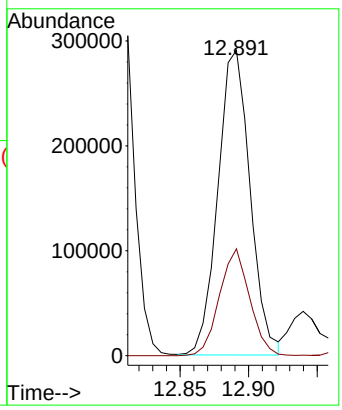


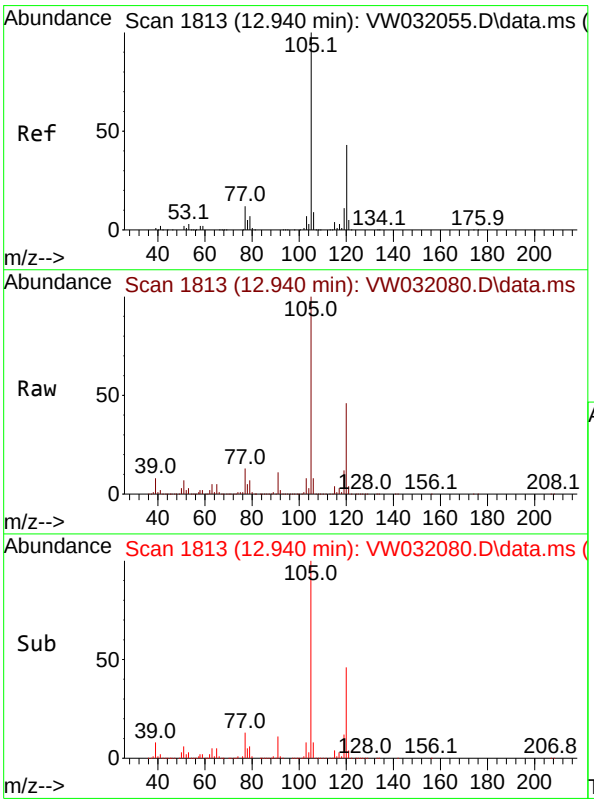
#79
2-Chlorotoluene
Concen: 51.172 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 475026

Ion	Ratio	Lower	Upper
91	100		
126	33.0	15.9	47.7

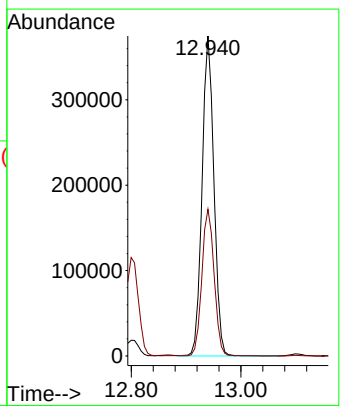


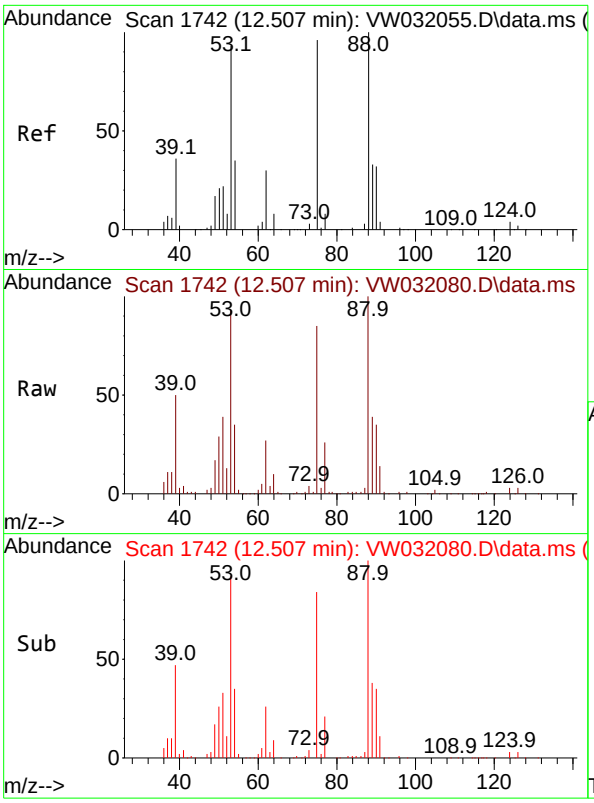


#80
1,3,5-Trimethylbenzene
Concen: 53.983 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:105 Resp: 559898

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.4	70.0



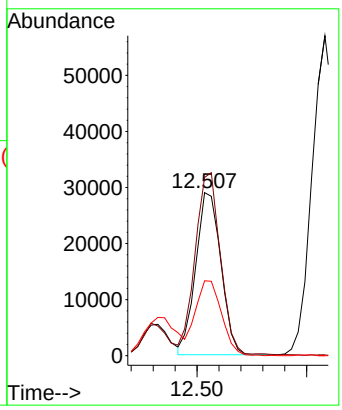


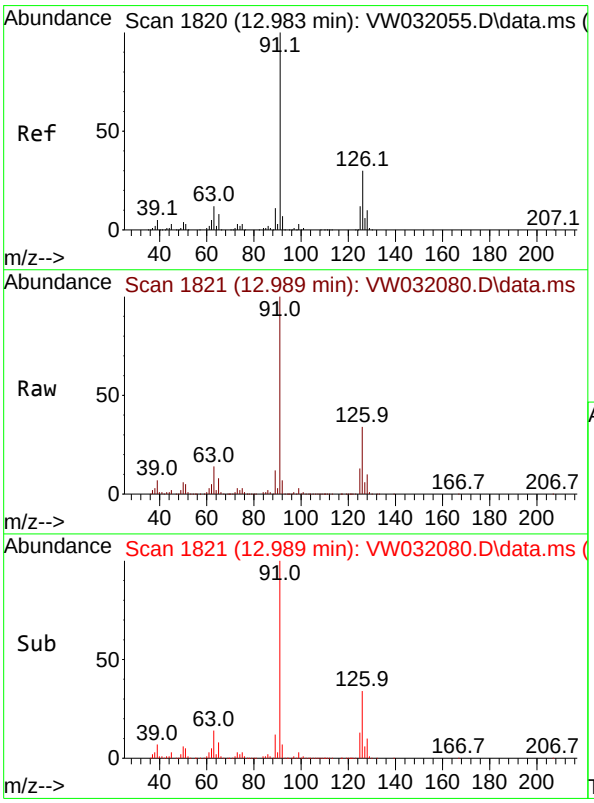
#81
trans-1,4-Dichloro-2-butene
Concen: 50.402 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 46191

Ion	Ratio	Lower	Upper
75	100		
53	113.8	81.0	121.6
89	48.0	37.3	55.9

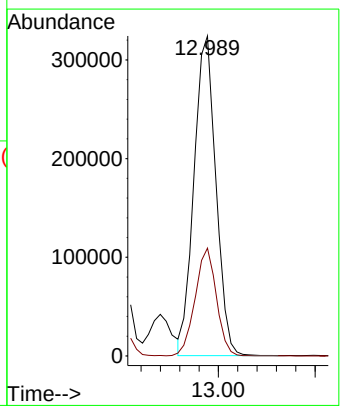


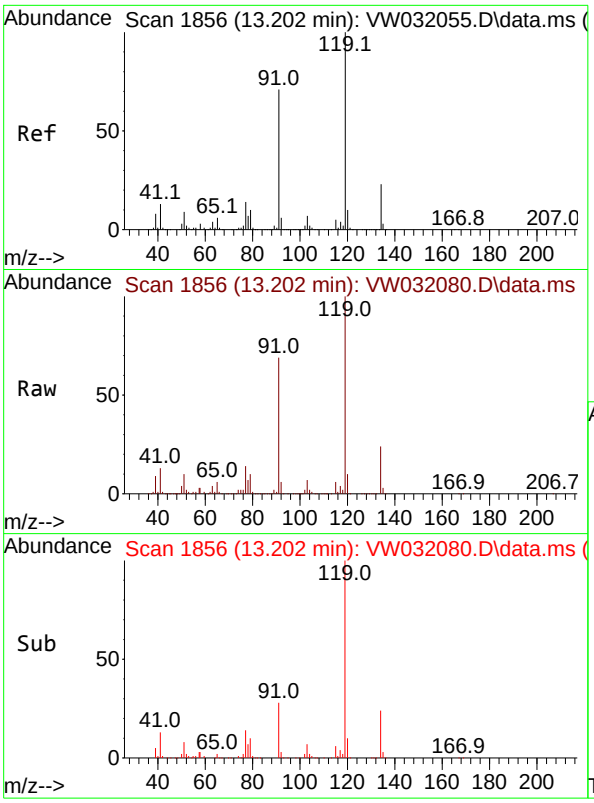


#82
4-Chlorotoluene
Concen: 51.725 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 91 Resp: 510140

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.5	46.5



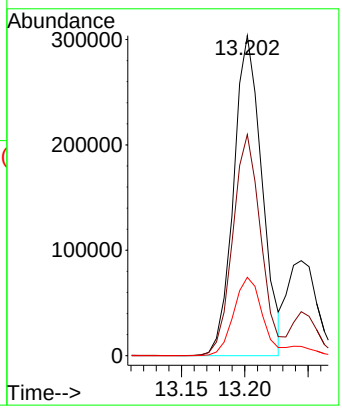


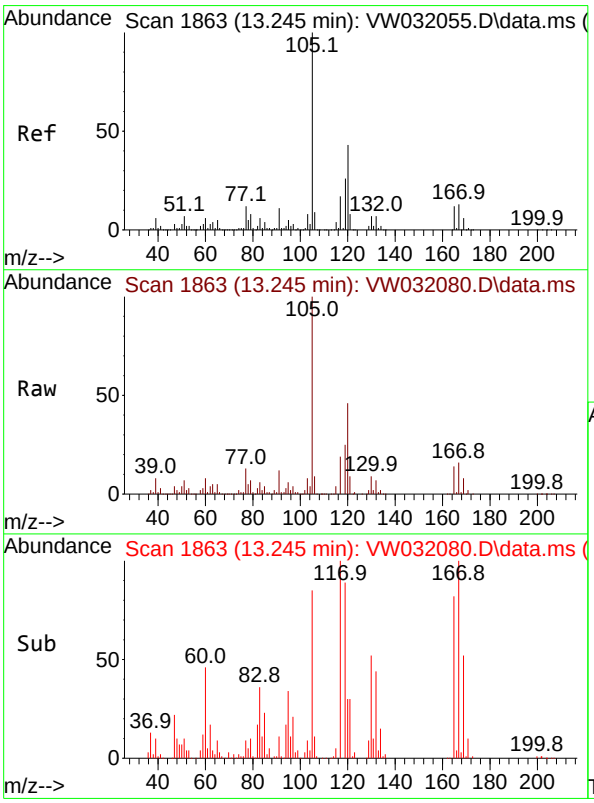
#83
tert-Butylbenzene
Concen: 54.905 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 472615

Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.3	105.9
134	25.0	12.1	36.3

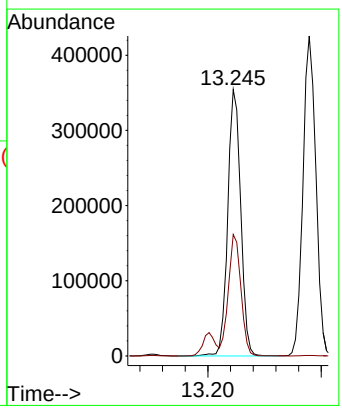


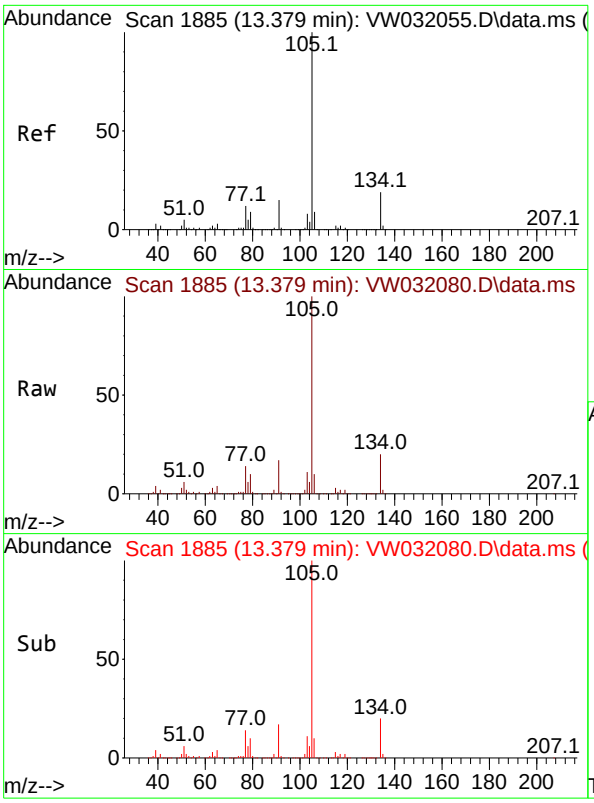


#84
1,2,4-Trimethylbenzene
Concen: 53.062 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:105 Resp: 560238

Ion	Ratio	Lower	Upper
105	100		
120	44.2	21.6	64.8



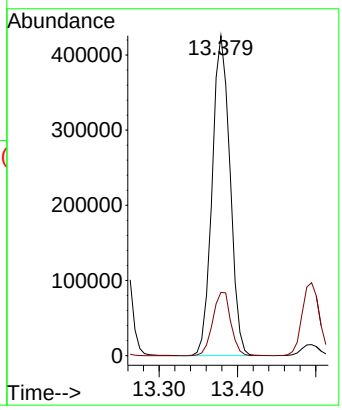


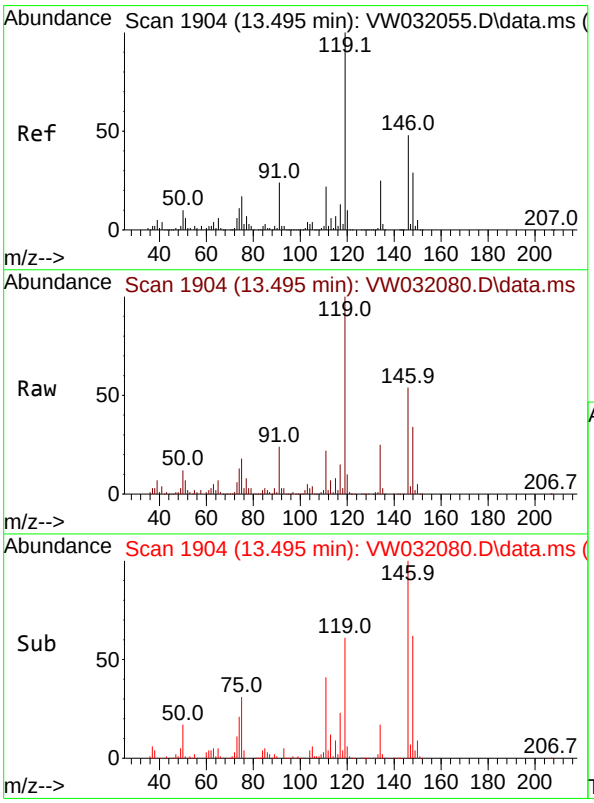
#85
sec-Butylbenzene
Concen: 51.695 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 672760

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.9	29.7

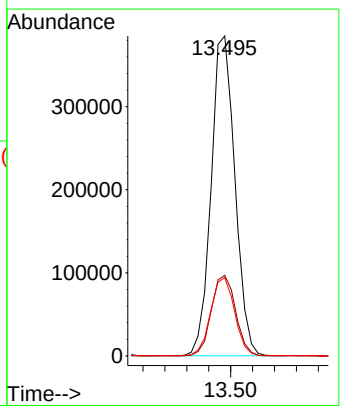


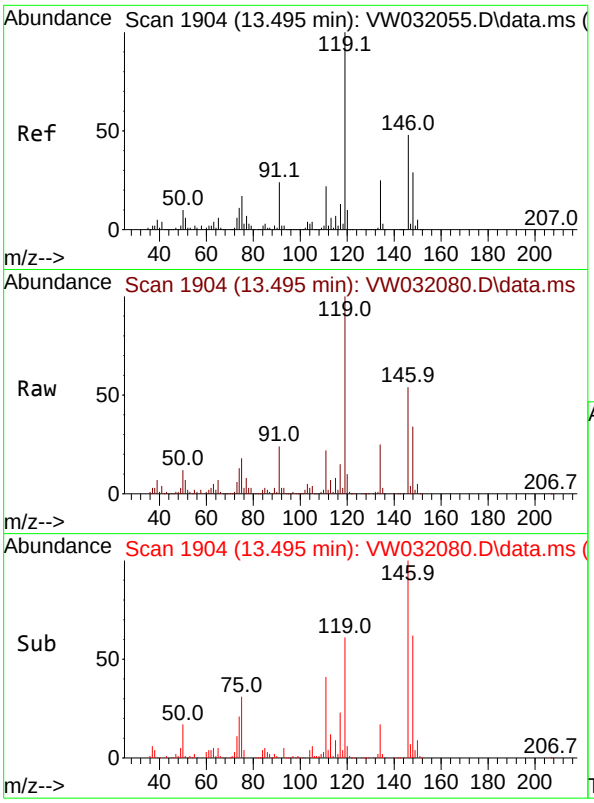


#86
p-Isopropyltoluene
Concen: 53.502 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:119 Resp: 580472

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.4	37.0
91	24.7	12.1	36.3



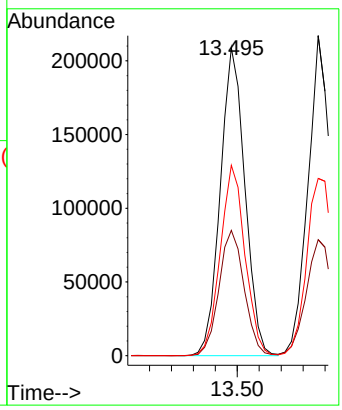


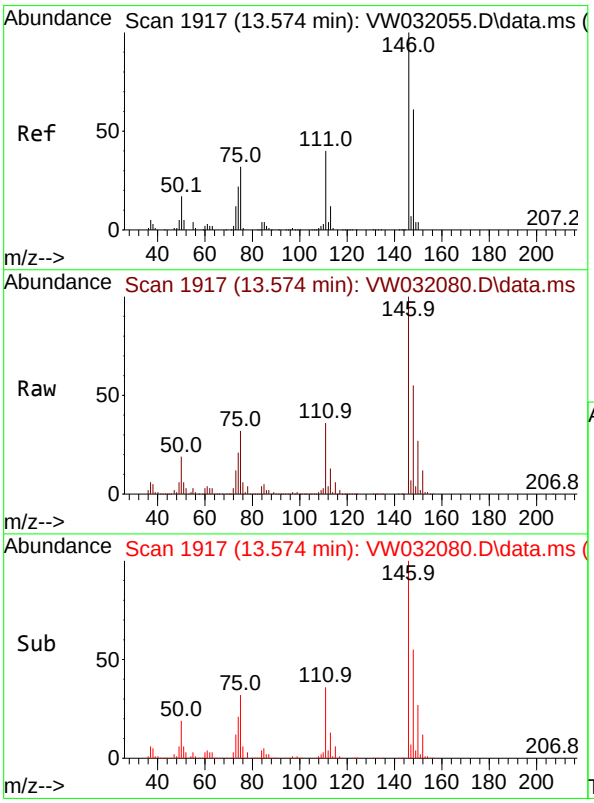
#87
1,3-Dichlorobenzene
Concen: 56.169 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 326126

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.2	63.6
148	62.1	30.3	90.8

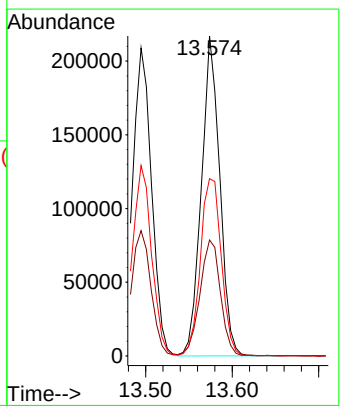


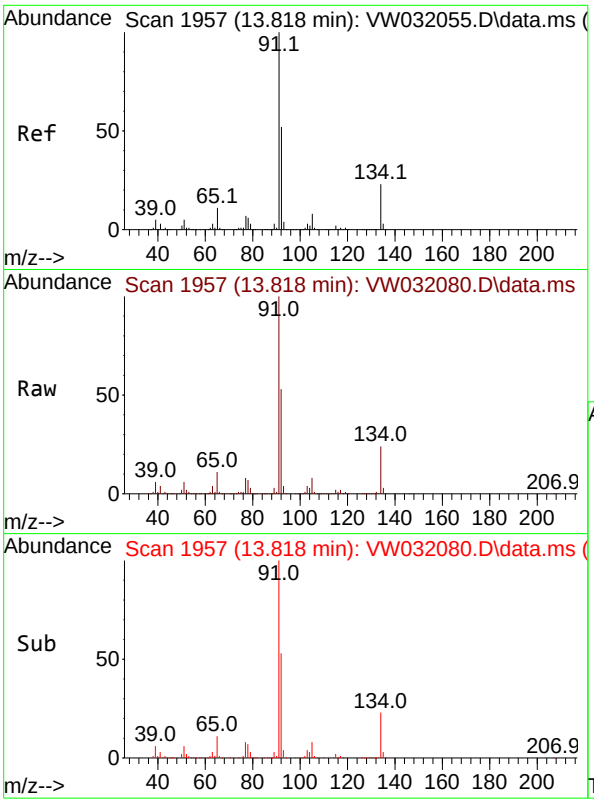


#88
1,4-Dichlorobenzene
Concen: 54.595 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:146 Resp: 320333

Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.6	64.6
148	62.9	32.0	96.2



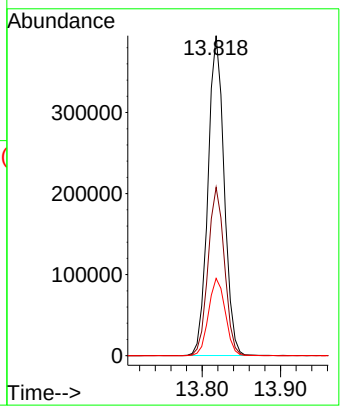


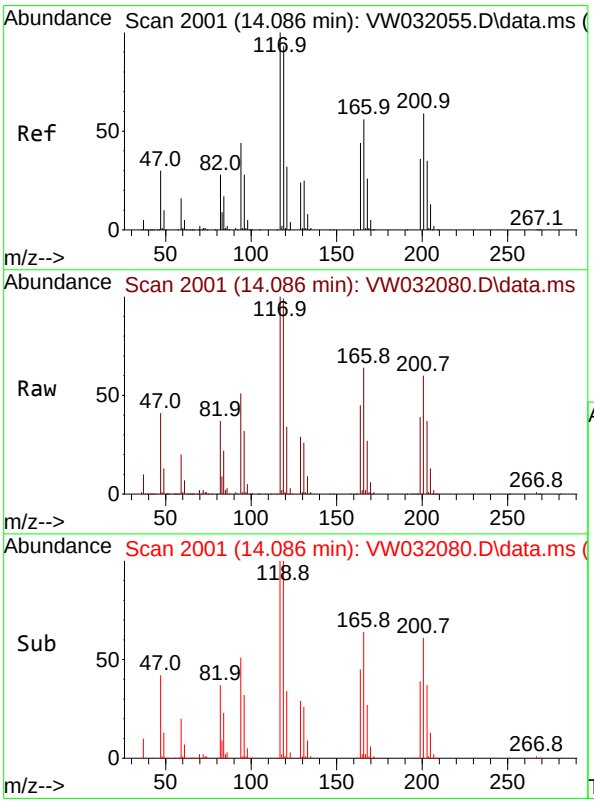
#89
n-Butylbenzene
Concen: 53.618 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 565150

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.7	80.1
134	25.0	12.0	36.1

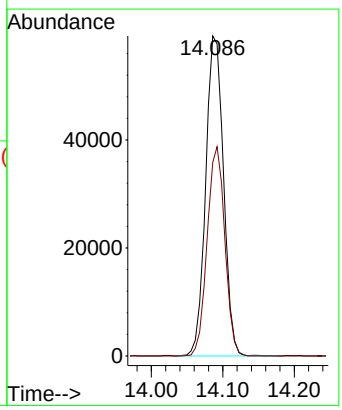


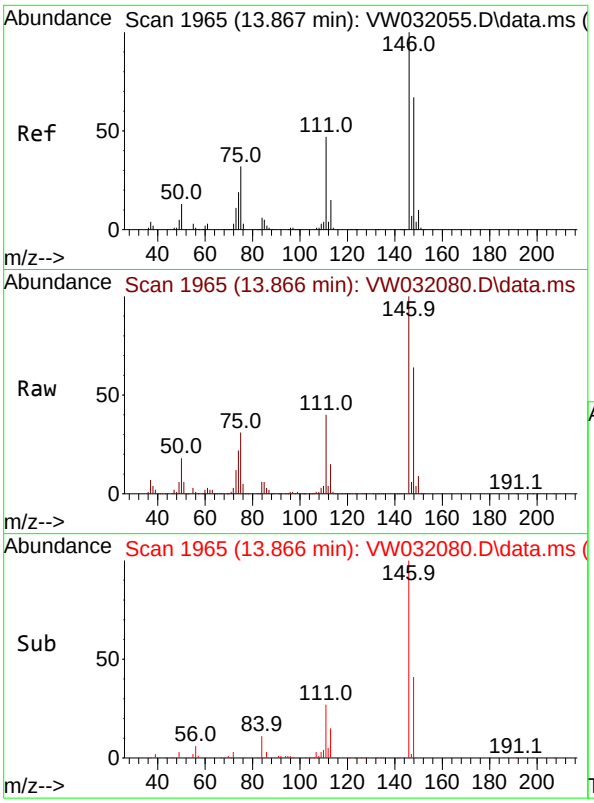


#90
Hexachloroethane
Concen: 51.649 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:117 Resp: 102479

Ion	Ratio	Lower	Upper
117	100		
201	64.8	30.9	92.5



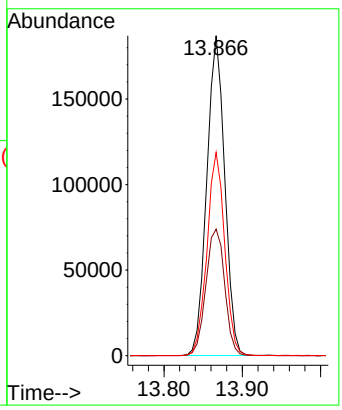


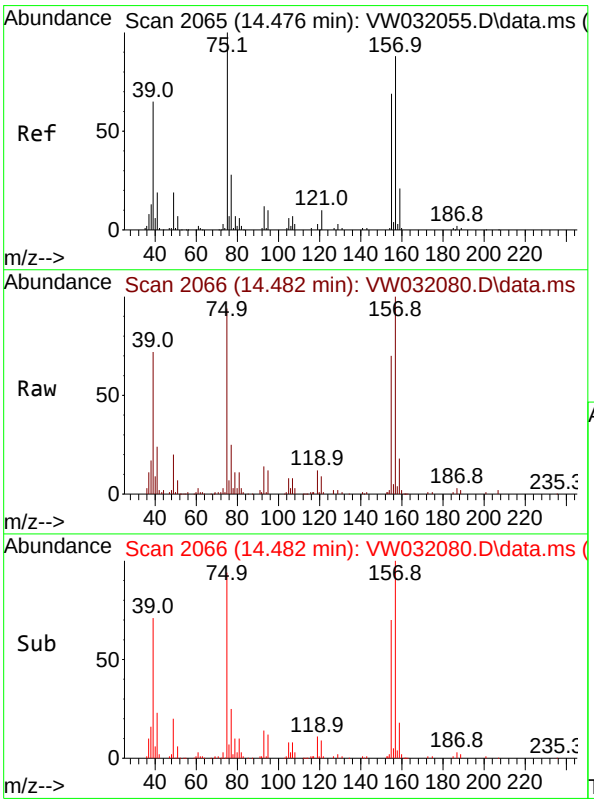
#91
1,2-Dichlorobenzene
Concen: 56.464 ug/l
RT: 13.866 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 296975

Ion	Ratio	Lower	Upper
146	100		
111	41.7	23.1	69.3
148	62.9	32.9	98.6

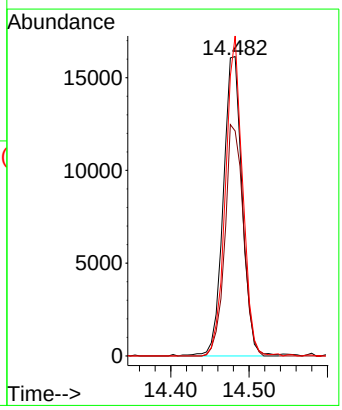


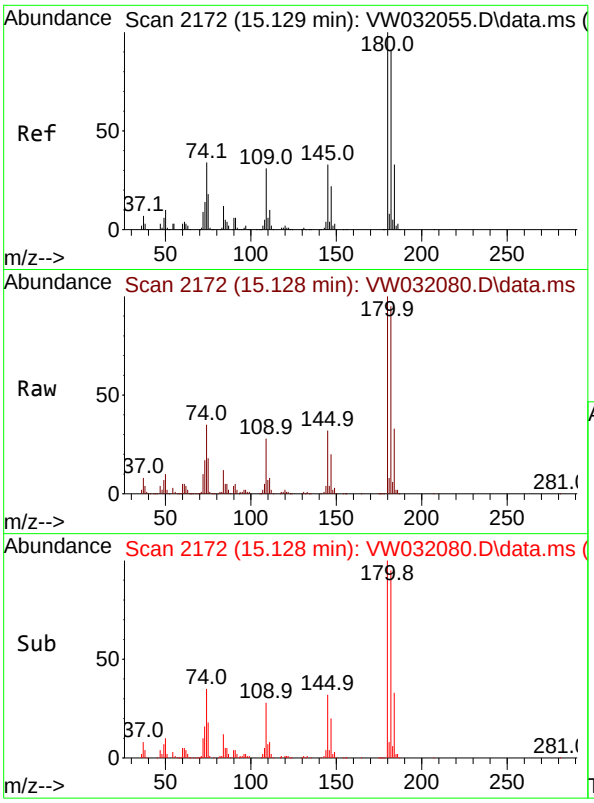


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.473 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion: 75 Resp: 27059

Ion	Ratio	Lower	Upper
75	100		
155	75.8	35.2	105.6
157	96.7	47.5	142.6



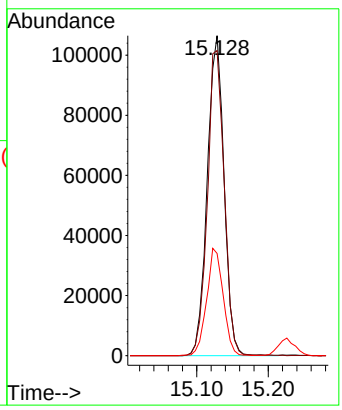


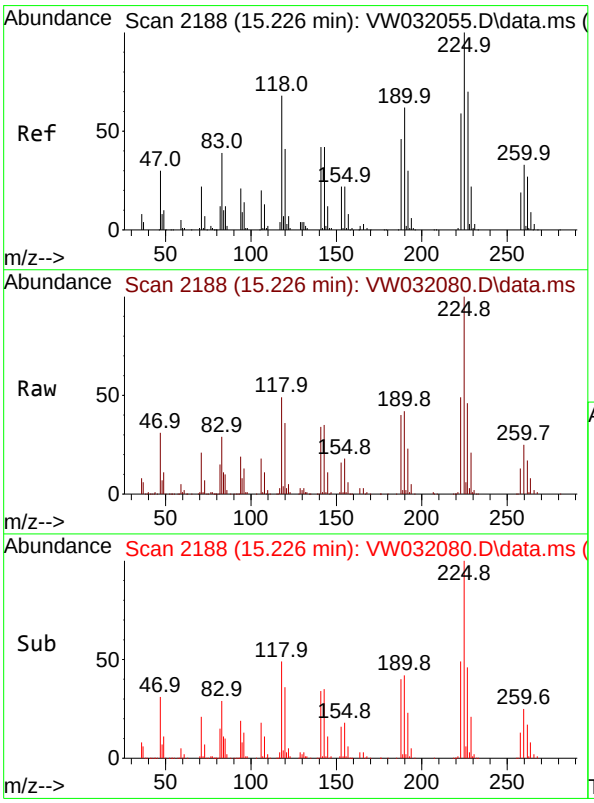
#93
1,2,4-Trichlorobenzene
Concen: 55.052 ug/l
RT: 15.128 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 173211

Ion	Ratio	Lower	Upper
180	100		
182	96.0	49.0	147.0
145	33.3	17.3	51.9

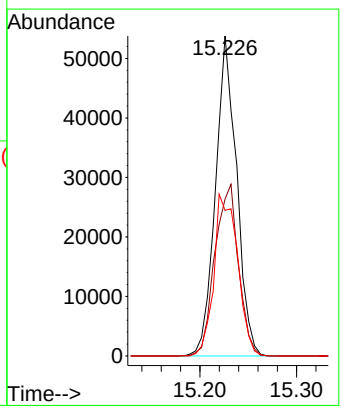


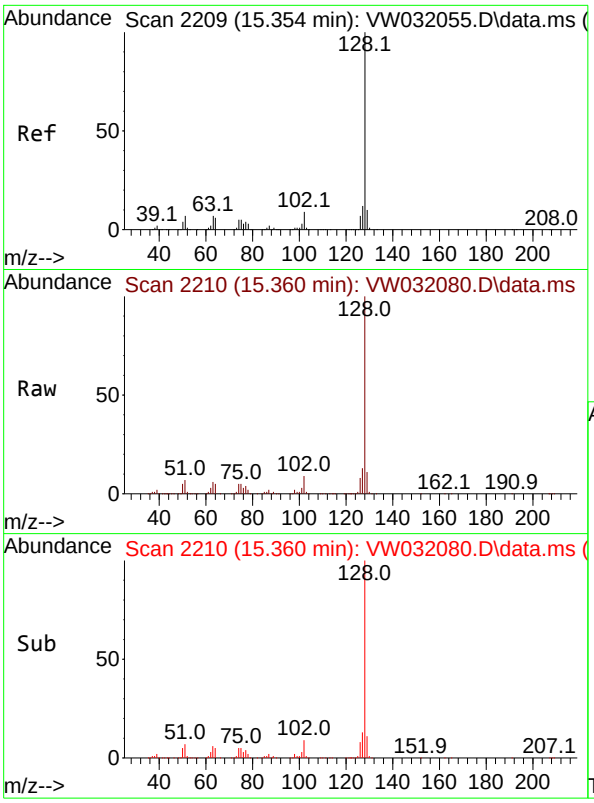


#94
Hexachlorobutadiene
Concen: 57.968 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:225 Resp: 81528

Ion	Ratio	Lower	Upper
225	100		
223	59.7	31.8	95.3
227	56.6	33.5	100.5



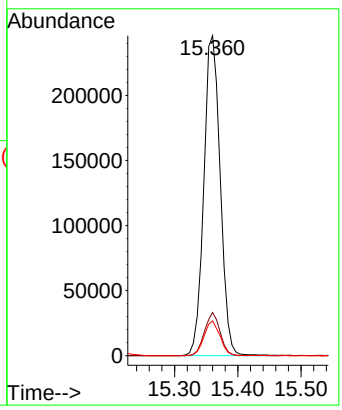


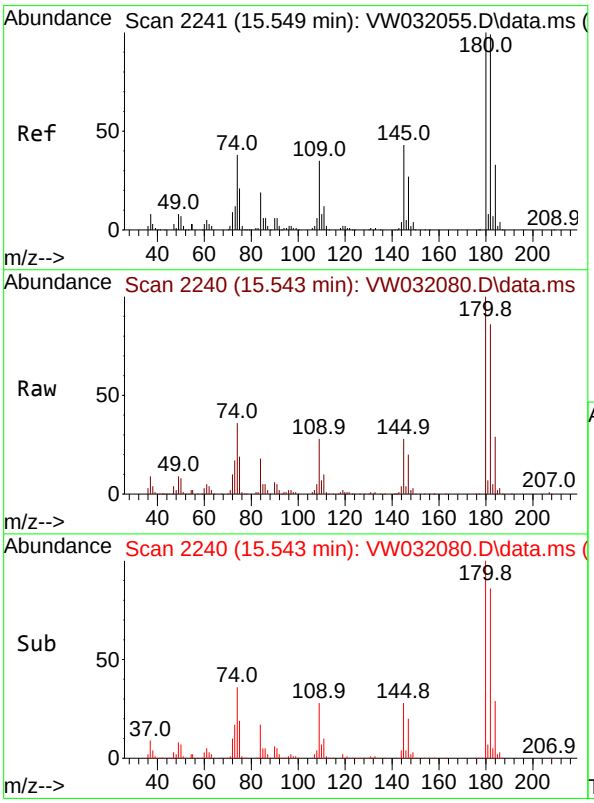
#95
Naphthalene
Concen: 57.653 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 444478

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.6	8.2	12.4

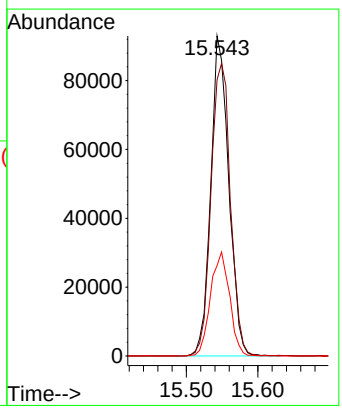




#96
1,2,3-Trichlorobenzene
Concen: 56.917 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032080.D
Acq: 14 Aug 2025 09:27

Tgt Ion:180 Resp: 162937

Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.0	138.0
145	34.3	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	208549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	361028	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	335310	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	148274	49.159	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 98.320%			
35) Dibromofluoromethane	7.898	113	124570	53.409	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 106.820%			
50) Toluene-d8	10.325	98	447242	51.843	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 103.680%			
62) 4-Bromofluorobenzene	12.617	95	156394	49.195	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 98.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.039	85	32981	22.111	ug/l	95
3) Chloromethane	2.253	50	36714	18.273	ug/l	100
4) Vinyl Chloride	2.405	62	47688	19.622	ug/l	91
5) Bromomethane	2.820	94	39599	21.718	ug/l	97
6) Chloroethane	2.966	64	32544	20.236	ug/l	97
7) Trichlorofluoromethane	3.295	101	36751	18.876	ug/l	93
8) Diethyl Ether	3.716	74	31522	19.762	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.094	101	50221	21.864	ug/l	97
10) Methyl Iodide	4.301	142	63316	19.442	ug/l	96
11) Tert butyl alcohol	5.222	59	17609	90.159	ug/l #	86
12) 1,1-Dichloroethene	4.076	96	54130	21.402	ug/l	99
13) Acrolein	3.923	56	25014	80.380	ug/l	99
14) Allyl chloride	4.704	41	62252	16.912	ug/l	89
15) Acrylonitrile	5.393	53	66066	86.957	ug/l	97
16) Acetone	4.155	43	81154	116.212	ug/l	96
17) Carbon Disulfide	4.417	76	118861	17.509	ug/l	97
18) Methyl Acetate	4.704	43	37911	17.156	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	80442	18.051	ug/l	97
20) Methylene Chloride	4.947	84	56840	17.604	ug/l	99
21) trans-1,2-Dichloroethene	5.454	96	49845	18.571	ug/l	97
22) Diisopropyl ether	6.337	45	139100	17.925	ug/l	93
23) Vinyl Acetate	6.283	43	471681	92.580	ug/l	99
24) 1,1-Dichloroethane	6.240	63	90076	18.168	ug/l	99
25) 2-Butanone	7.191	43	94859	95.576	ug/l	99
26) 2,2-Dichloropropane	7.185	77	46011	18.498	ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	59218	18.875	ug/l	96
28) Bromochloromethane	7.526	49	43295	19.189	ug/l	94
29) Tetrahydrofuran	7.551	42	57438	87.753	ug/l	98
30) Chloroform	7.691	83	102932	19.583	ug/l	96
31) Cyclohexane	7.965	56	74302	17.286	ug/l	96
32) 1,1,1-Trichloroethane	7.892	97	74063	19.399	ug/l	99
36) 1,1-Dichloropropene	8.093	75	67400	20.499	ug/l	100
37) Ethyl Acetate	7.276	43	39578	20.438	ug/l	97
38) Carbon Tetrachloride	8.087	117	70115	22.097	ug/l	98
39) Methylcyclohexane	9.343	83	75369	18.806	ug/l	96
40) Benzene	8.331	78	208337	20.384	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	20590	18.749	ug/l		92
42) 1,2-Dichloroethane	8.410	62	71790	21.951	ug/l		99
43) Isopropyl Acetate	8.435	43	69849	19.605	ug/l		99
44) Trichloroethene	9.099	130	50257	20.648	ug/l		97
45) 1,2-Dichloropropane	9.374	63	48874	19.794	ug/l		99
46) Dibromomethane	9.465	93	34741	21.800	ug/l		99
47) Bromodichloromethane	9.648	83	77846	21.199	ug/l		98
48) Methyl methacrylate	9.441	41	32666	18.991	ug/l	#	92
49) 1,4-Dioxane	9.459	88	7897	383.262	ug/l	#	79
51) 4-Methyl-2-Pentanone	10.209	43	207218	103.043	ug/l		96
52) Toluene	10.392	92	132319	20.554	ug/l		99
53) t-1,3-Dichloropropene	10.605	75	66557	19.346	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	77941	19.970	ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	43846	20.705	ug/l		96
56) Ethyl methacrylate	10.648	69	54454	19.216	ug/l	#	94
57) 1,3-Dichloropropane	10.934	76	75241	20.384	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	150289	95.881	ug/l		99
59) 2-Hexanone	10.971	43	145508	104.476	ug/l		94
60) Dibromochloromethane	11.129	129	52415	21.668	ug/l		97
61) 1,2-Dibromoethane	11.239	107	43206	20.995	ug/l		100
64) Tetrachloroethene	10.867	164	41545	21.451	ug/l		94
65) Chlorobenzene	11.660	112	148850	20.395	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.727	131	49016	21.525	ug/l		96
67) Ethyl Benzene	11.727	91	249471	20.179	ug/l		98
68) m/p-Xylenes	11.836	106	191394	40.121	ug/l		96
69) o-Xylene	12.166	106	87428	19.829	ug/l		98
70) Styrene	12.178	104	157674	20.133	ug/l		100
71) Bromoform	12.349	173	28805	22.114	ug/l	#	99
73) Isopropylbenzene	12.464	105	234043	19.298	ug/l		98
74) N-amyl acetate	12.269	43	63547	18.263	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	55414	19.244	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	67514	28.664	ug/l		55
77) Bromobenzene	12.745	156	58767	20.288	ug/l		89
78) n-propylbenzene	12.800	91	293106	19.630	ug/l		99
79) 2-Chlorotoluene	12.885	91	172088	18.674	ug/l		96
80) 1,3,5-Trimethylbenzene	12.940	105	199943	19.419	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	14926	16.406	ug/l	#	84
82) 4-Chlorotoluene	12.983	91	186440	19.042	ug/l		98
83) tert-Butylbenzene	13.202	119	162438	19.009	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	204141	19.477	ug/l		97
85) sec-Butylbenzene	13.379	105	246430	19.074	ug/l		100
86) p-Isopropyltoluene	13.495	119	210533	19.547	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	123661	21.455	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	112801	19.366	ug/l		96
89) n-Butylbenzene	13.818	91	203065	19.407	ug/l		97
90) Hexachloroethane	14.086	117	37065	18.817	ug/l		97
91) 1,2-Dichlorobenzene	13.867	146	109453	20.963	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	9291	18.149	ug/l		95
93) 1,2,4-Trichlorobenzene	15.123	180	60665	19.423	ug/l		99
94) Hexachlorobutadiene	15.226	225	28357	20.310	ug/l		99
95) Naphthalene	15.360	128	136270	17.805	ug/l		98
96) 1,2,3-Trichlorobenzene	15.549	180	56830	19.997	ug/l		95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

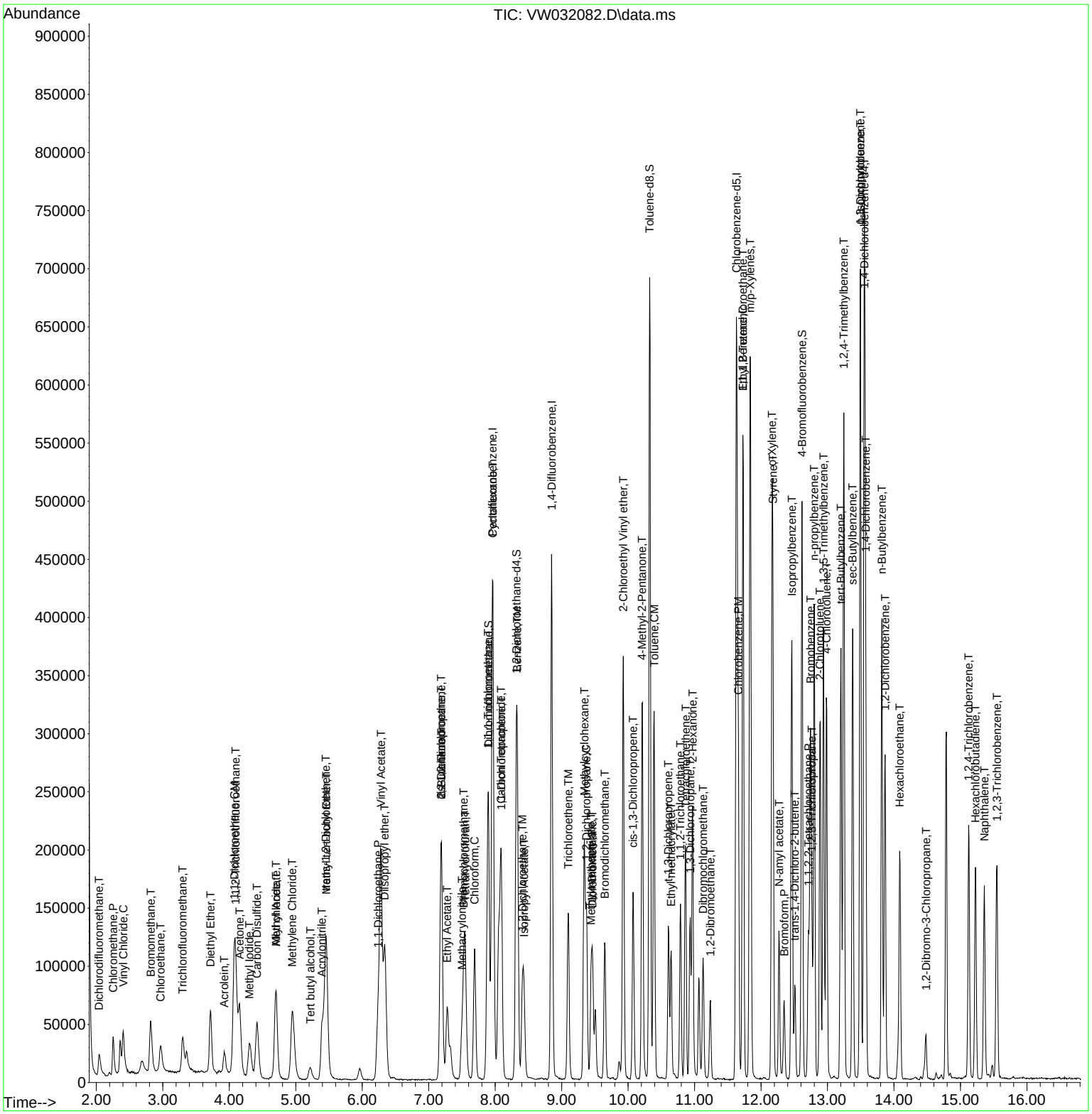
(#) = qualifier out of range (m) = manual integration (+) = signals summed

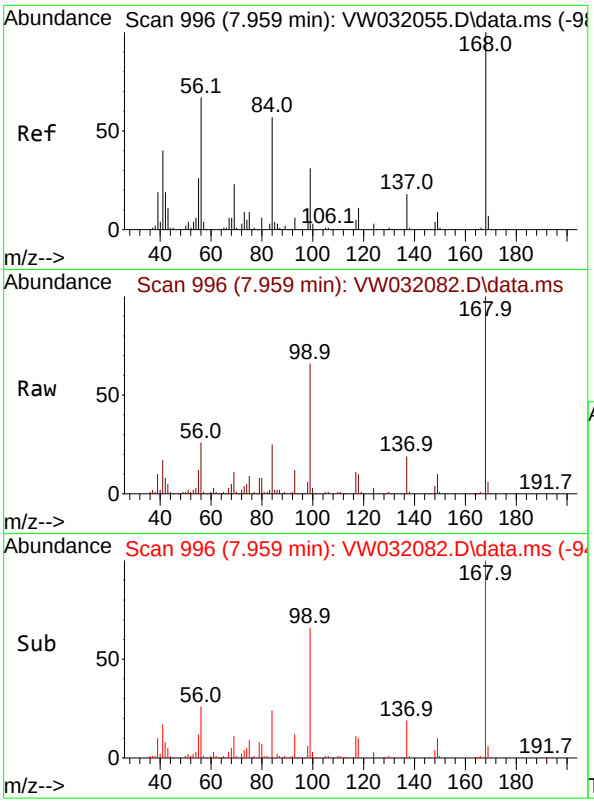
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032082.D
Acq On : 14 Aug 2025 10:27
Operator : SY/MD
Sample : VW0814SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Quant Time: Aug 18 03:47:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



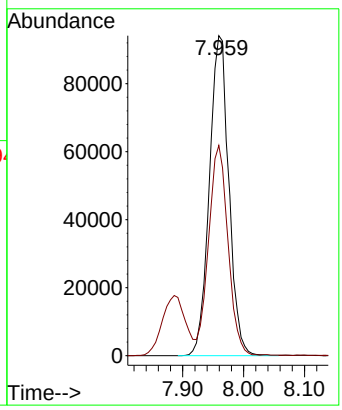


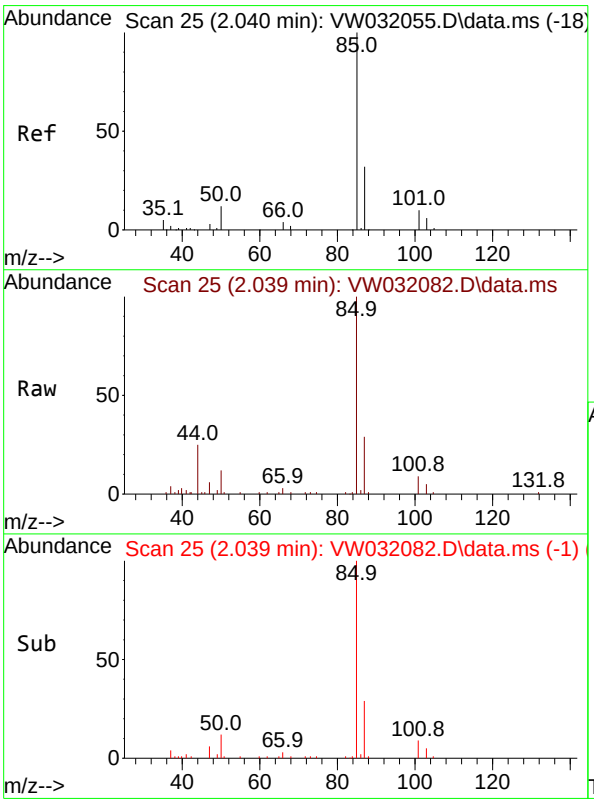
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:168 Resp: 208549

Ion	Ratio	Lower	Upper
168	100		
99	65.5	56.0	84.0

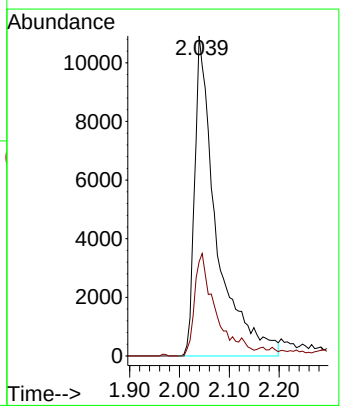


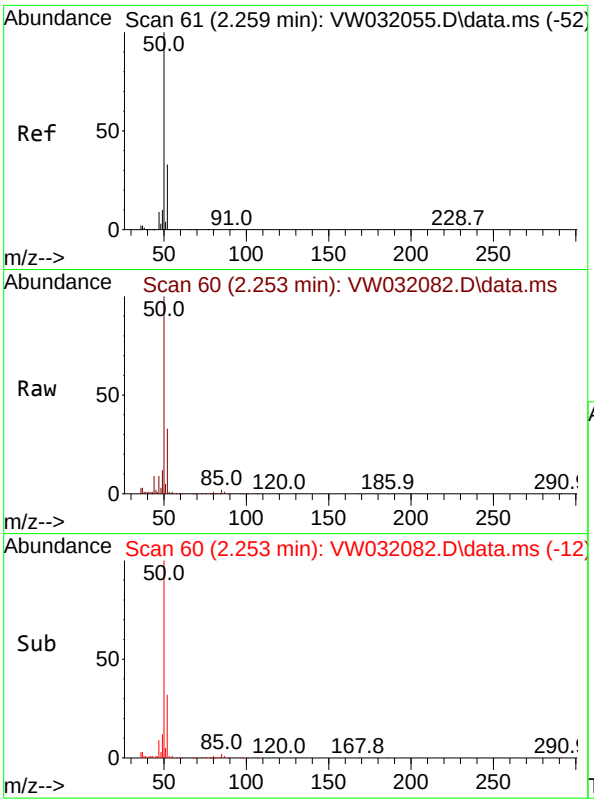


#2
Dichlorodifluoromethane
Concen: 22.111 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 85 Resp: 32981

Ion	Ratio	Lower	Upper
85	100		
87	29.5	16.2	48.6



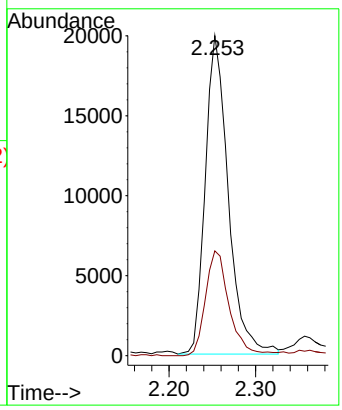


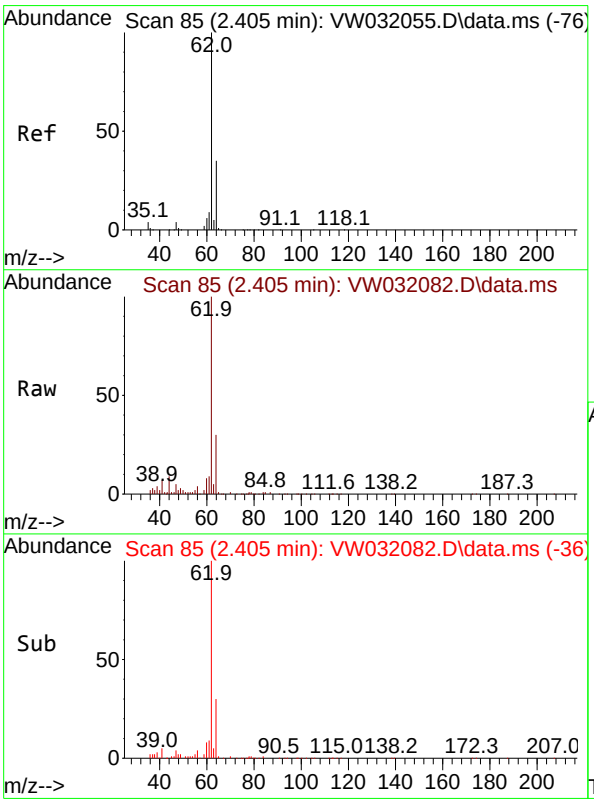
#3
Chloromethane
Concen: 18.273 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 50 Resp: 36714

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.6	39.8

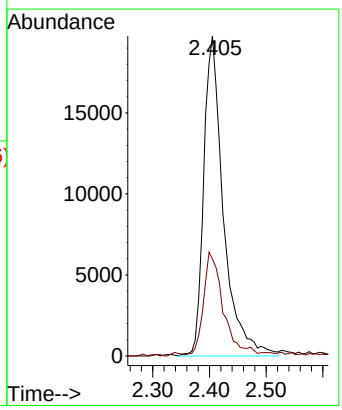


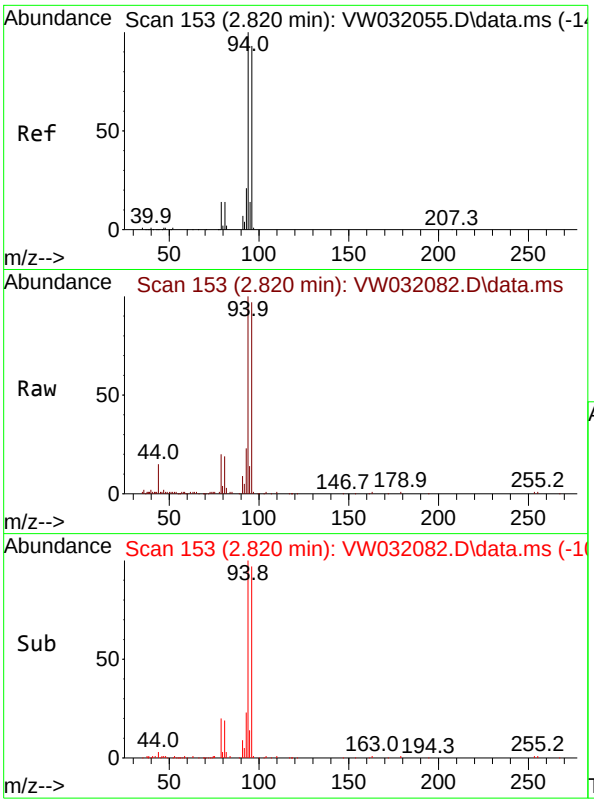


#4
Vinyl Chloride
Concen: 19.622 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 62 Resp: 47688

Ion	Ratio	Lower	Upper
62	100		
64	29.5	27.8	41.6



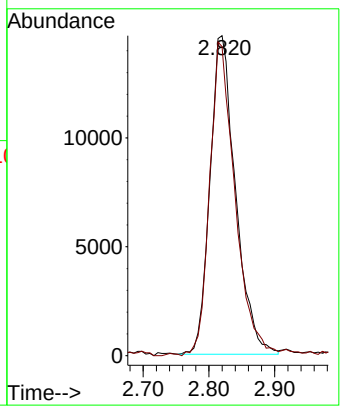


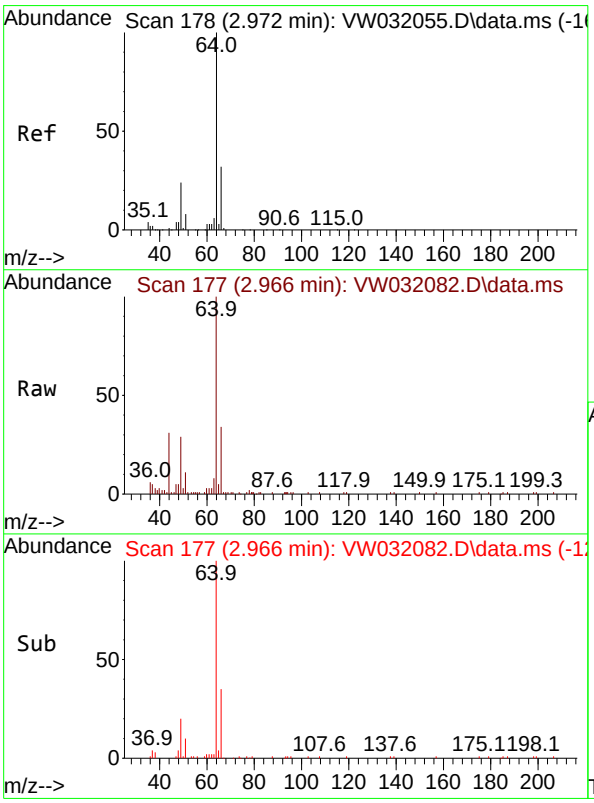
#5
Bromomethane
Concen: 21.718 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 94 Resp: 39599

Ion	Ratio	Lower	Upper
94	100		
96	96.6	74.7	112.1

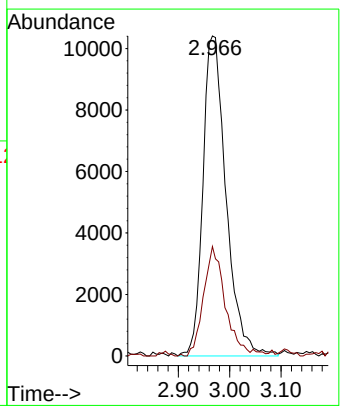


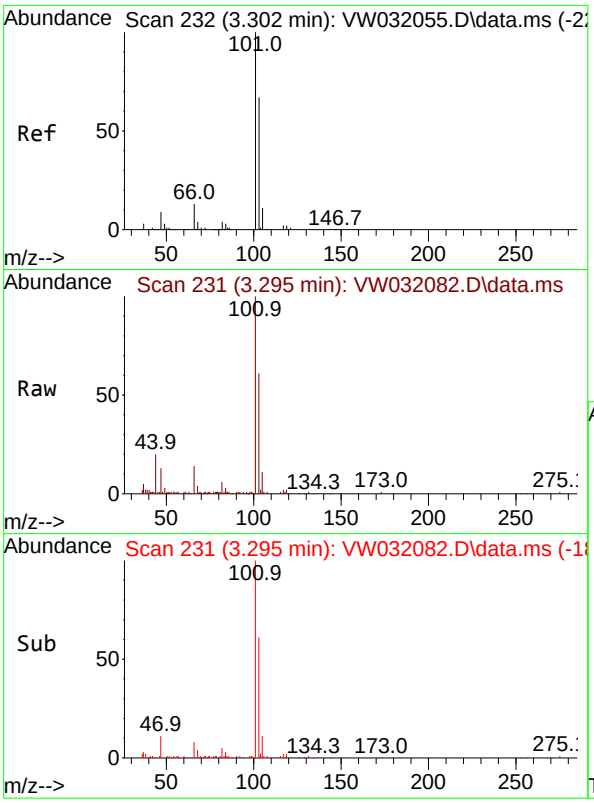


#6
Chloroethane
Concen: 20.236 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 64 Resp: 32544

Ion	Ratio	Lower	Upper
64	100		
66	34.2	26.0	39.0



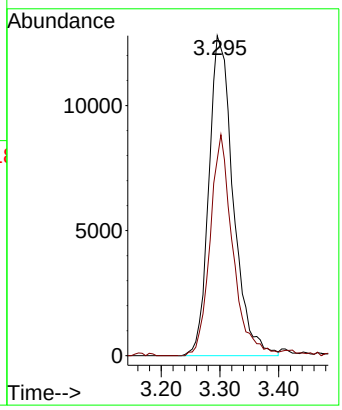


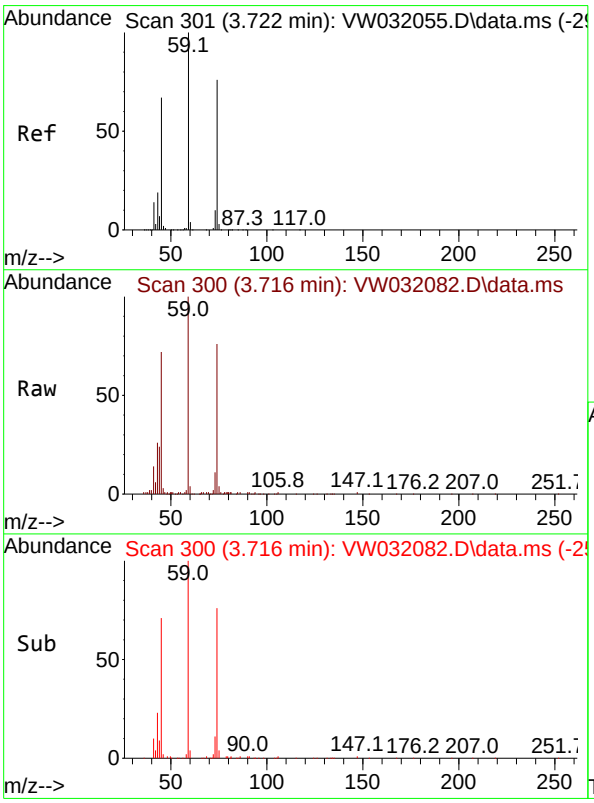
#7
Trichlorofluoromethane
Concen: 18.876 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:101 Resp: 36751

Ion	Ratio	Lower	Upper
101	100		
103	61.3	53.4	80.0

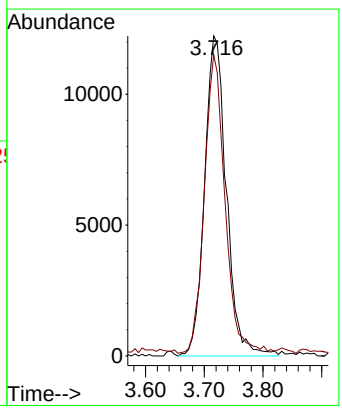


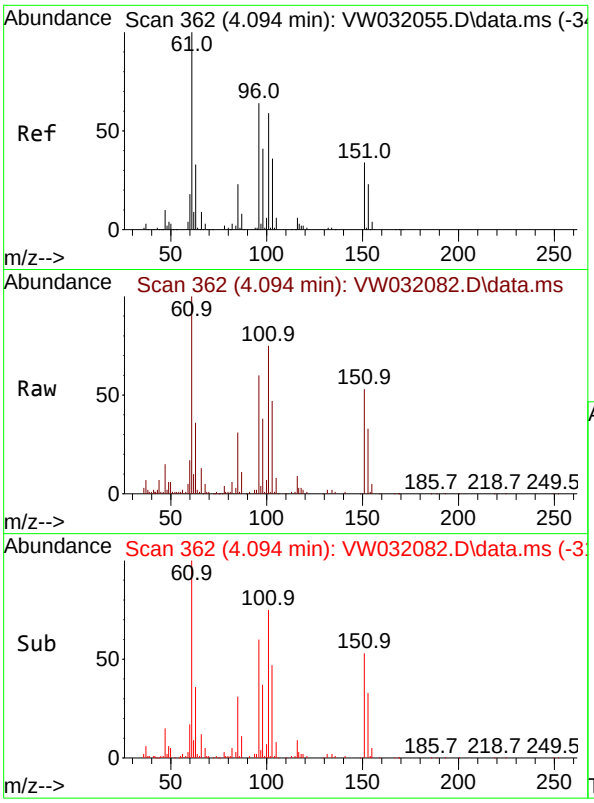


#8
Diethyl Ether
Concen: 19.762 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 74 Resp: 31522

Ion	Ratio	Lower	Upper
74	100		
45	88.4	45.4	136.2



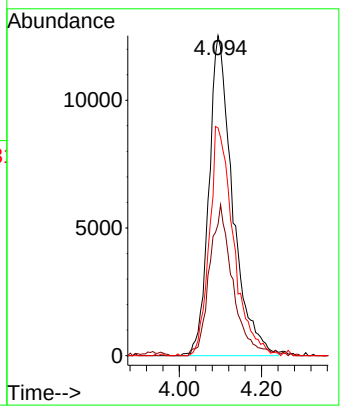


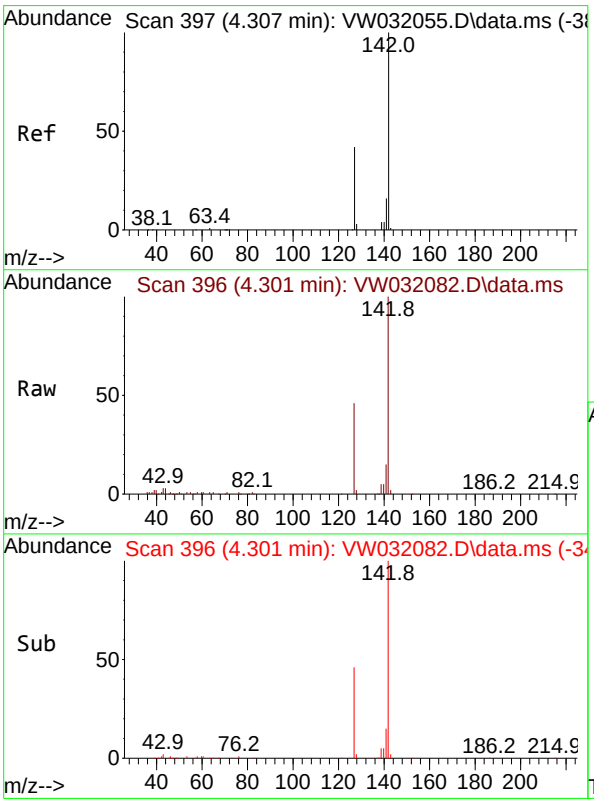
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.864 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:101 Resp: 50221

Ion	Ratio	Lower	Upper
101	100		
85	46.1	34.9	52.3
151	72.6	56.2	84.4

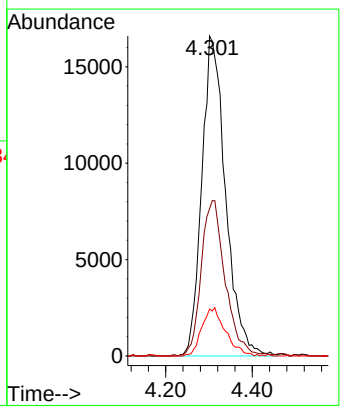


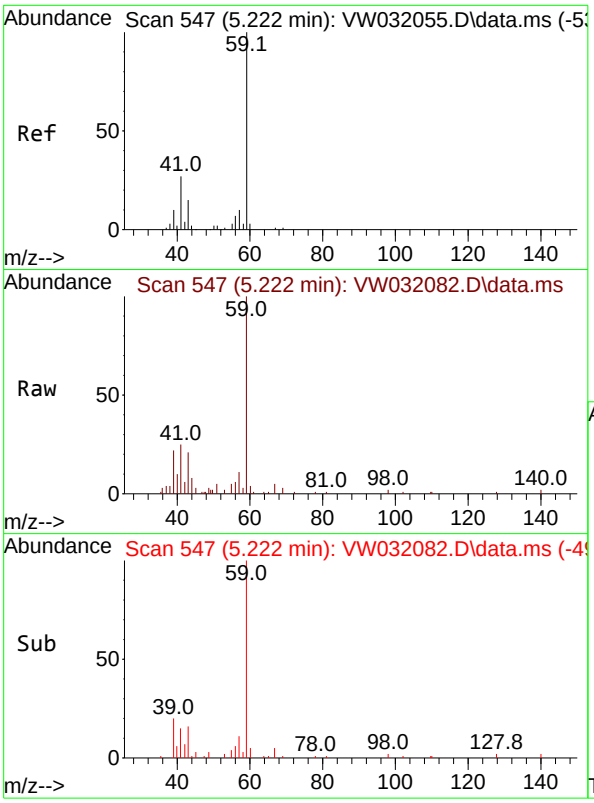


#10
Methyl Iodide
Concen: 19.442 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:142 Resp: 63316

Ion	Ratio	Lower	Upper
142	100		
127	49.0	36.6	55.0
141	15.0	12.1	18.1



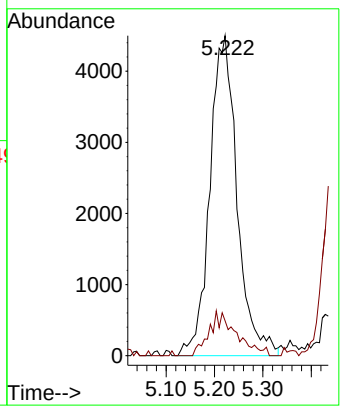


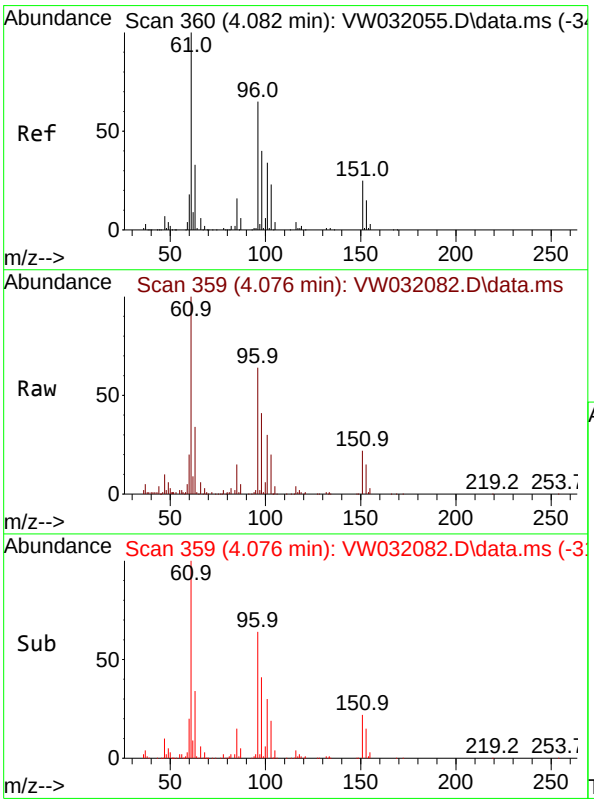
#11
Tert butyl alcohol
Concen: 90.159 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 59 Resp: 17609

Ion	Ratio	Lower	Upper
59	100		
57	5.5	8.7	13.1#

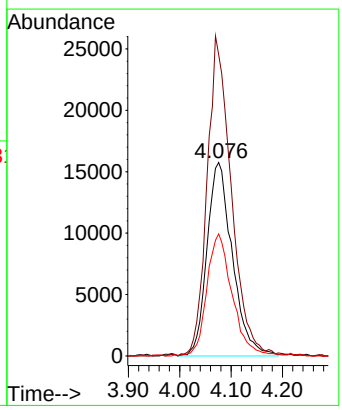


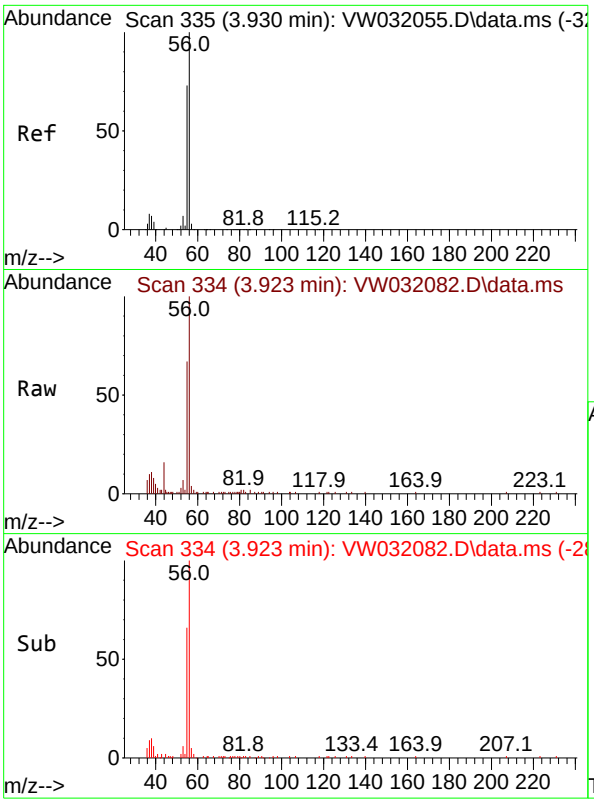


#12
1,1-Dichloroethene
Concen: 21.402 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 96 Resp: 54130

Ion	Ratio	Lower	Upper
96	100		
61	155.8	123.4	185.2
98	62.7	49.5	74.3



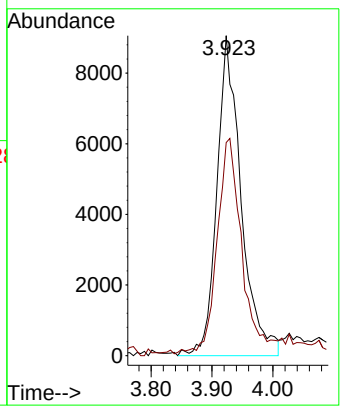


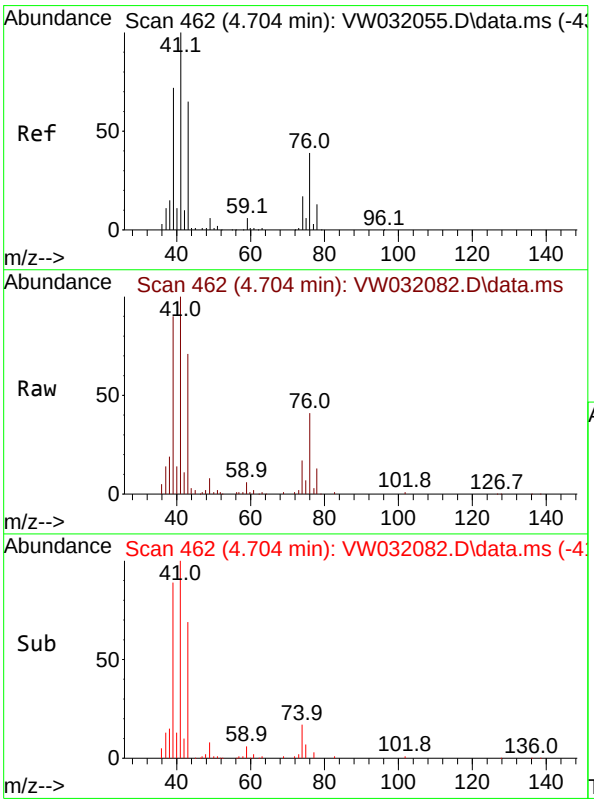
#13
Acrolein
Concen: 80.380 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 56 Resp: 25014

Ion	Ratio	Lower	Upper
56	100		
55	68.2	55.4	83.2

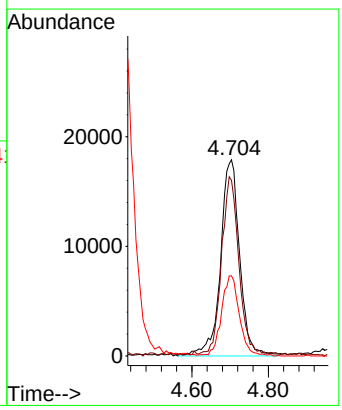


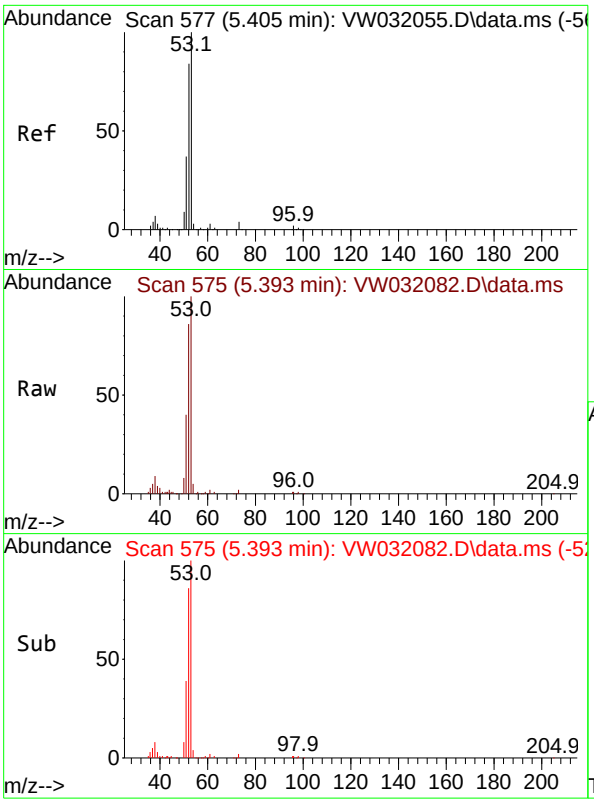


#14
Allyl chloride
Concen: 16.912 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 41 Resp: 62252

Ion	Ratio	Lower	Upper
41	100		
39	80.3	54.5	81.7
76	38.2	29.3	43.9



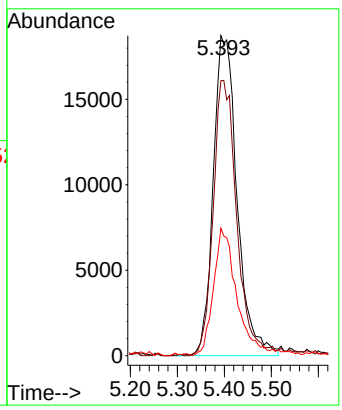


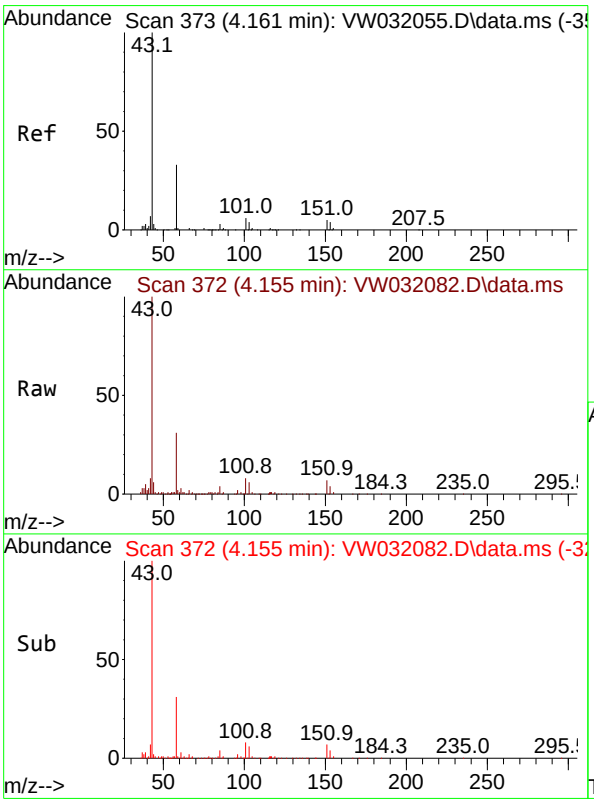
#15
Acrylonitrile
Concen: 86.957 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 53 Resp: 66066

Ion	Ratio	Lower	Upper
53	100		
52	84.8	66.1	99.1
51	38.5	29.2	43.8

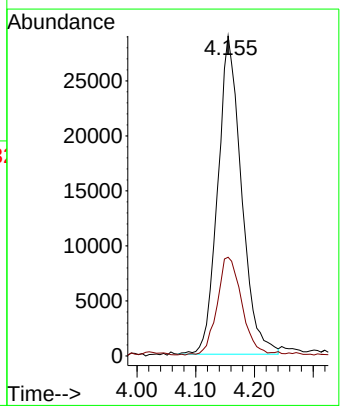


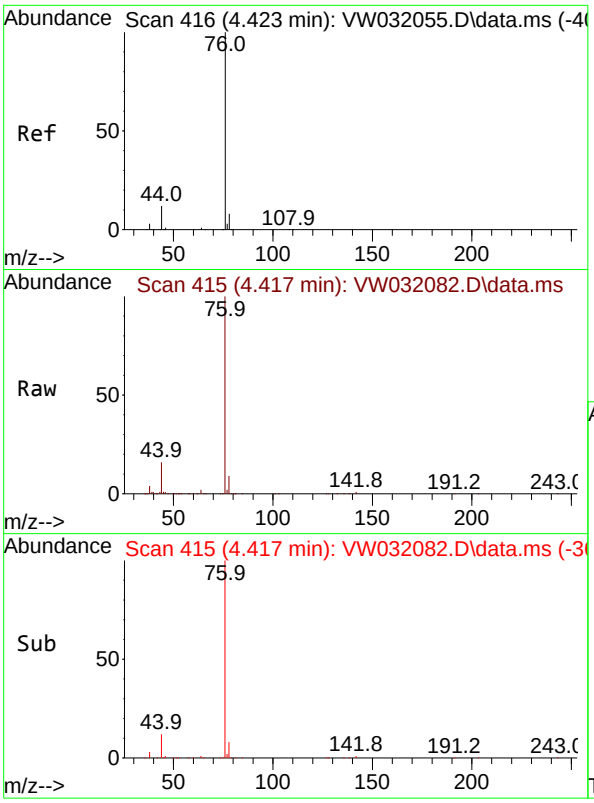


#16
Acetone
Concen: 116.212 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 81154

Ion	Ratio	Lower	Upper
43	100		
58	30.7	26.6	39.8



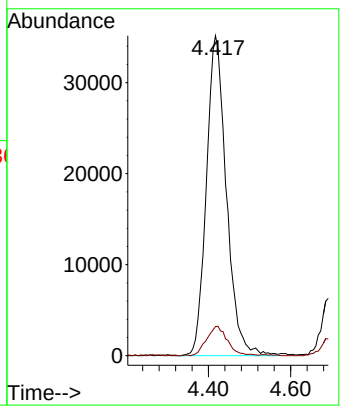


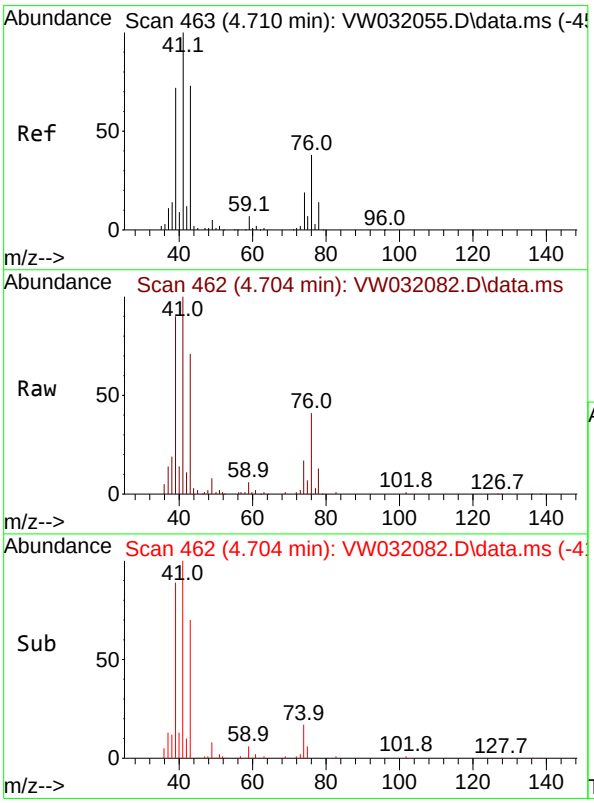
#17
Carbon Disulfide
Concen: 17.509 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 76 Resp: 118861

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.4	9.6

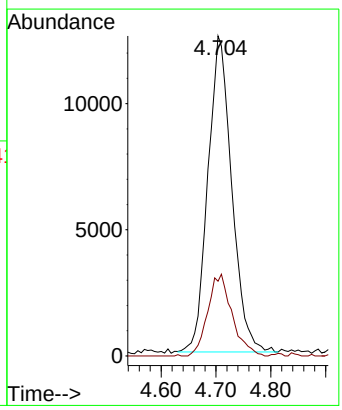


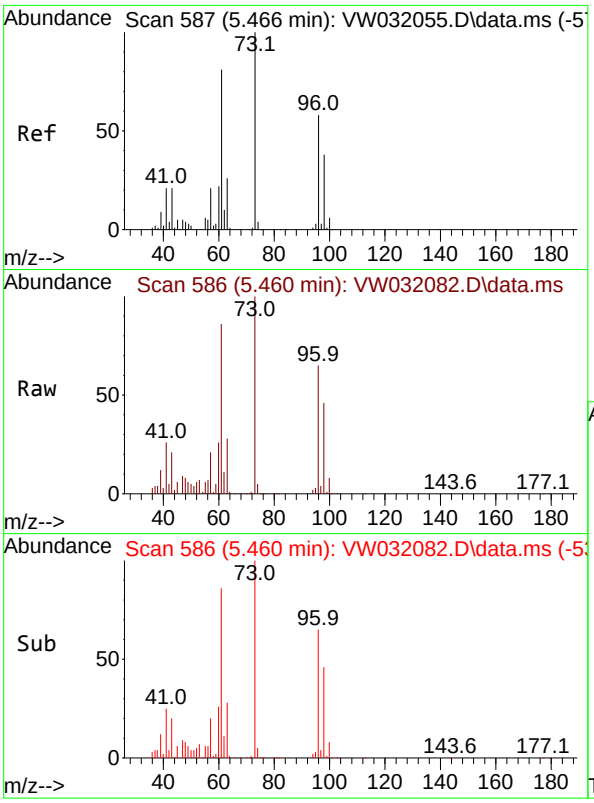


#18
Methyl Acetate
Concen: 17.156 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 37911

Ion	Ratio	Lower	Upper
43	100		
74	26.2	20.6	31.0



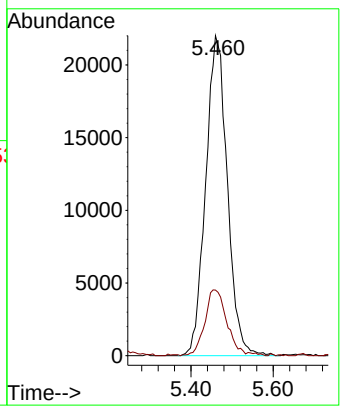


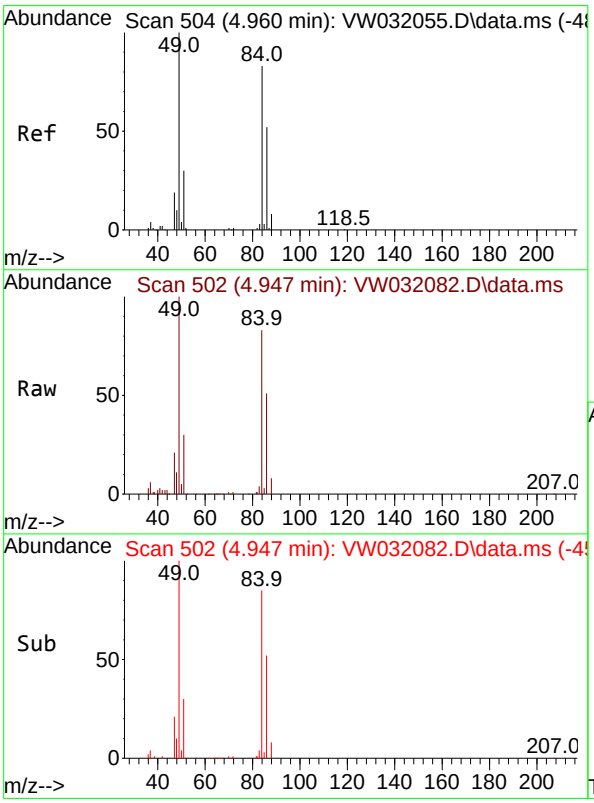
#19
Methyl tert-butyl Ether
Concen: 18.051 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 73 Resp: 80442

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.2	25.8

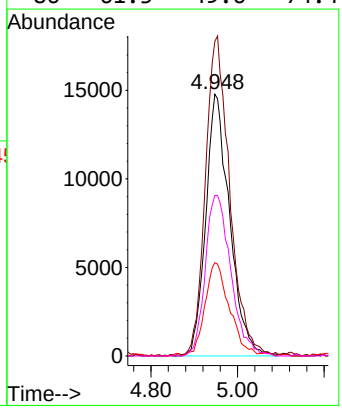


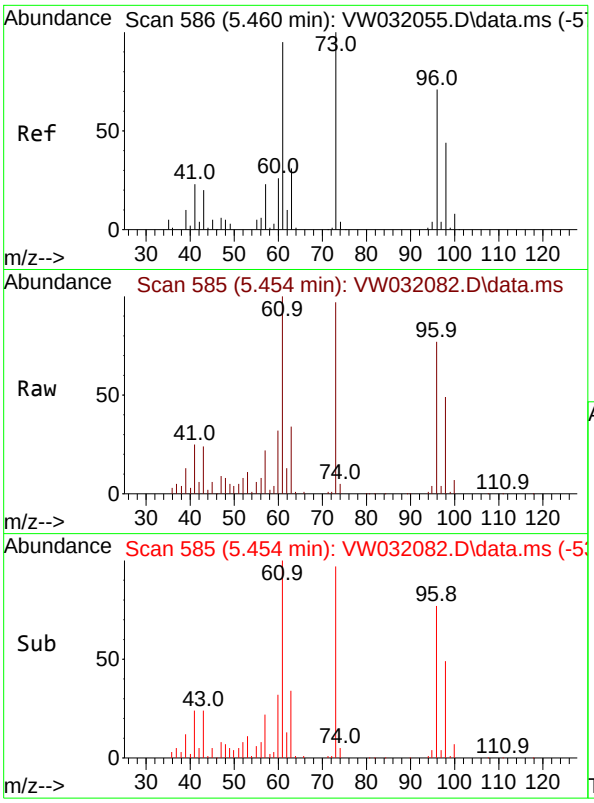


#20
Methylene Chloride
Concen: 17.604 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 84 Resp: 56840

Ion	Ratio	Lower	Upper
84	100		
49	119.5	95.9	143.9
51	35.2	28.6	43.0
86	61.3	49.6	74.4



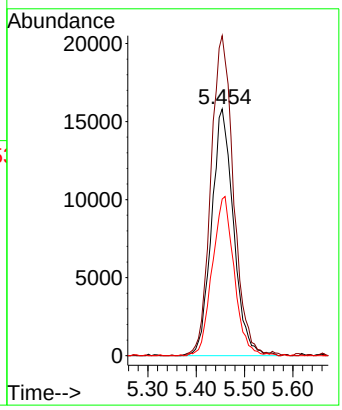


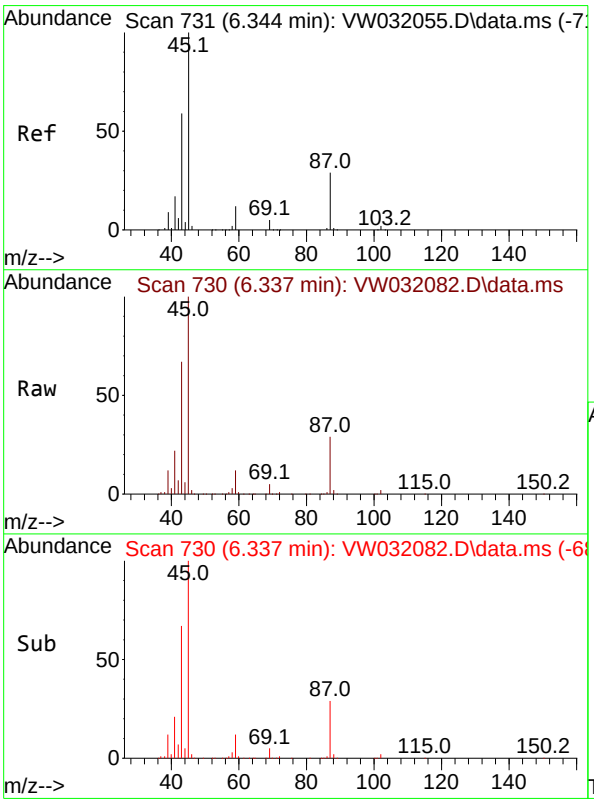
#21
trans-1,2-Dichloroethene
Concen: 18.571 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 96 Resp: 49845

Ion	Ratio	Lower	Upper
96	100		
61	129.7	106.8	160.2
98	63.5	49.6	74.4

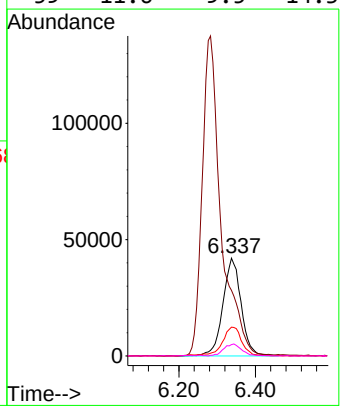


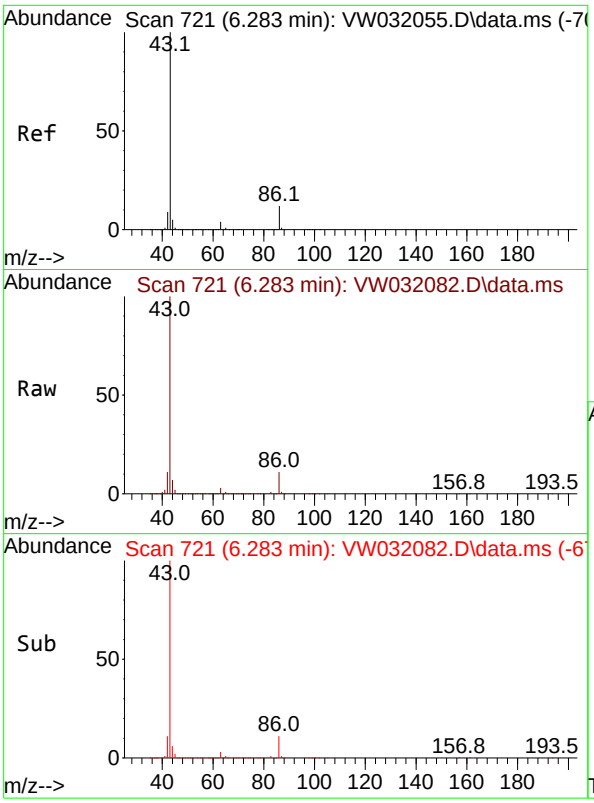


#22
Diisopropyl ether
Concen: 17.925 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 45 Resp: 139100

Ion	Ratio	Lower	Upper
45	100		
43	67.2	47.0	70.4
87	29.2	23.8	35.8
59	11.6	9.5	14.3



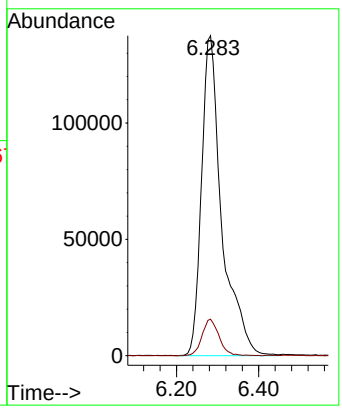


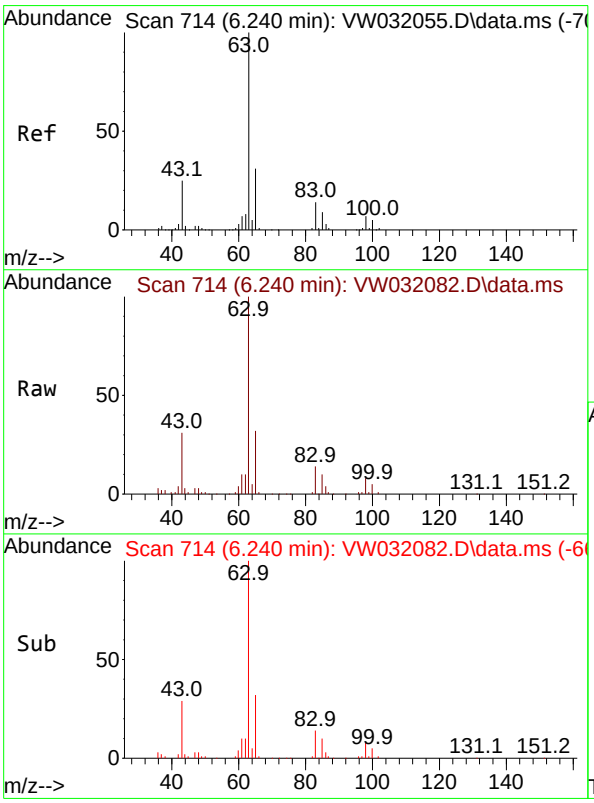
#23
Vinyl Acetate
Concen: 92.580 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 43 Resp: 471681

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.4	14.0

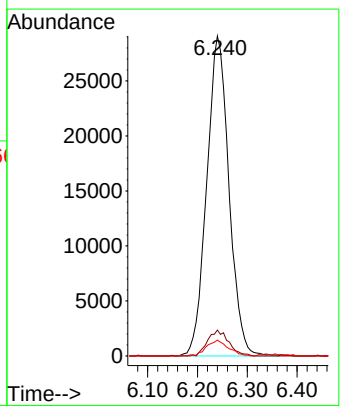


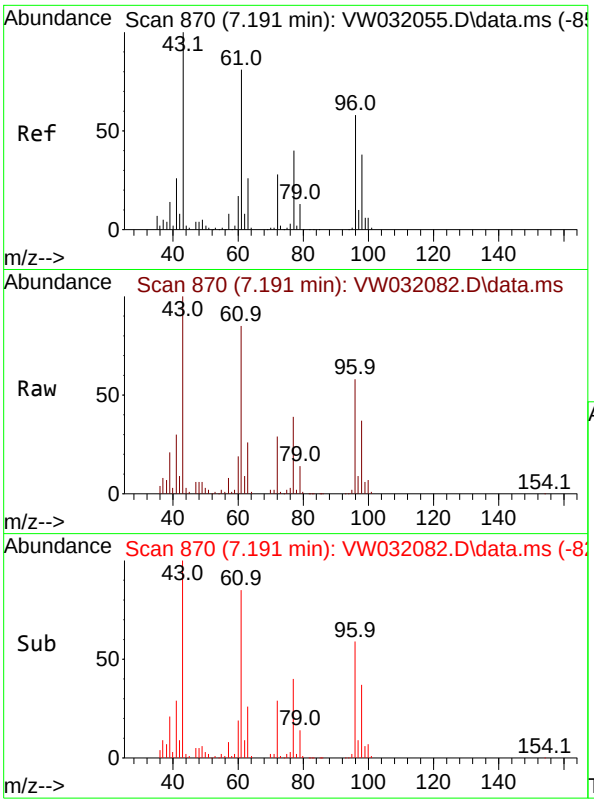


#24
1,1-Dichloroethane
Concen: 18.168 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 63 Resp: 90076

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.7	11.1
100	4.9	2.5	7.4



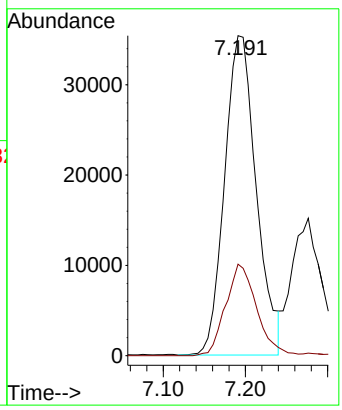


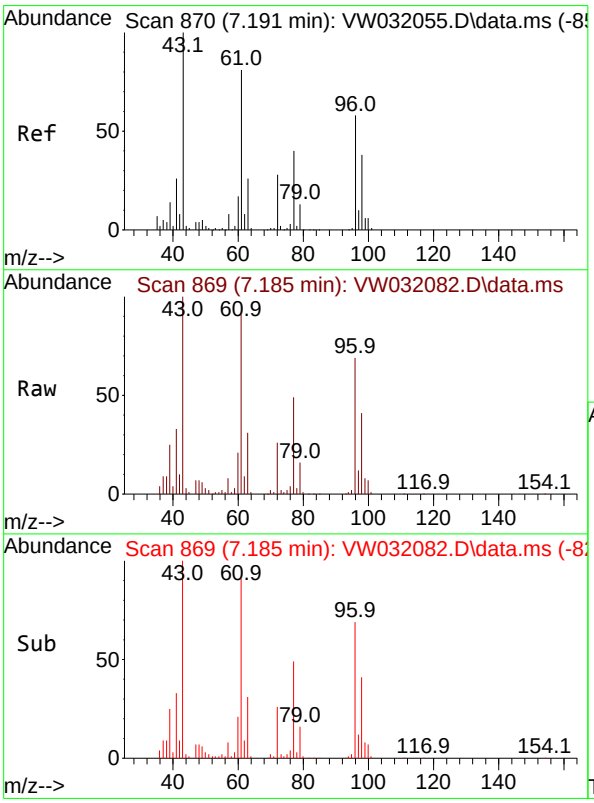
#25
2-Butanone
Concen: 95.576 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 43 Resp: 94859

Ion	Ratio	Lower	Upper
43	100		
72	28.6	22.3	33.5

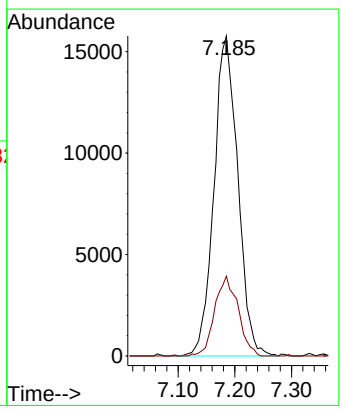


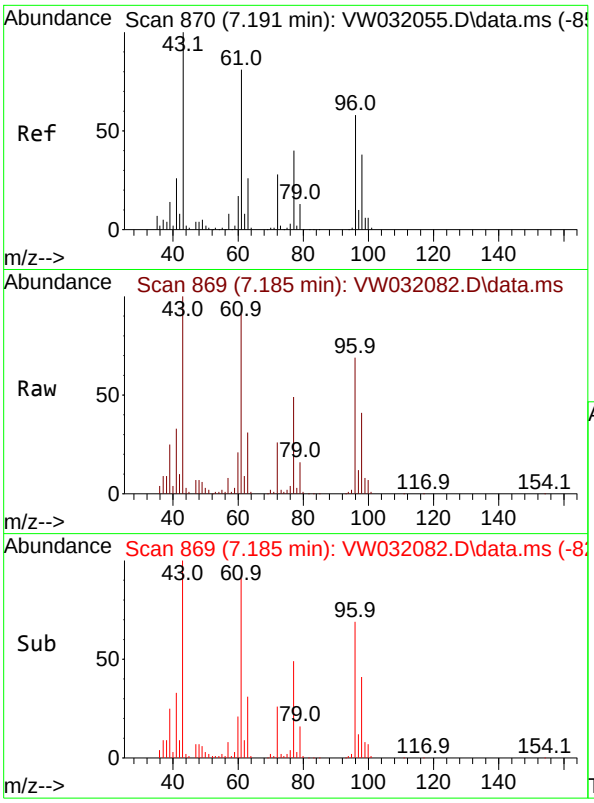


#26
2,2-Dichloropropane
Concen: 18.498 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 77 Resp: 46011

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9



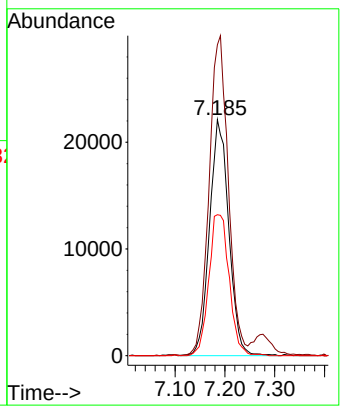


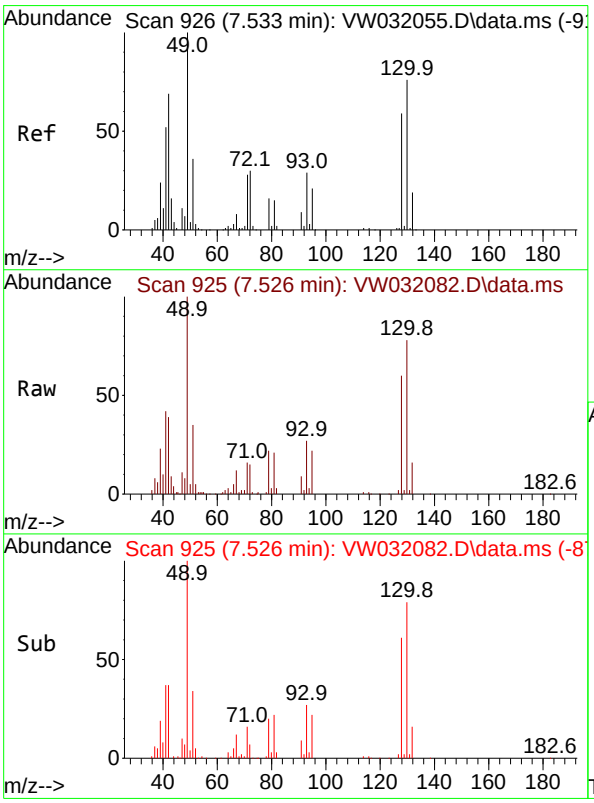
#27
cis-1,2-Dichloroethene
Concen: 18.875 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 96 Resp: 59218

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	281.2
98	63.3	0.0	130.8

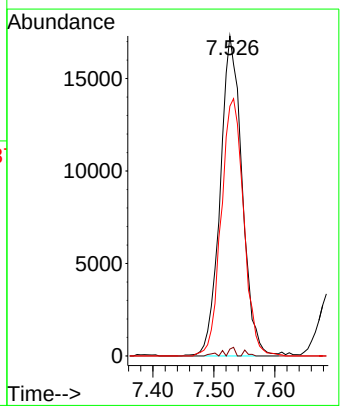


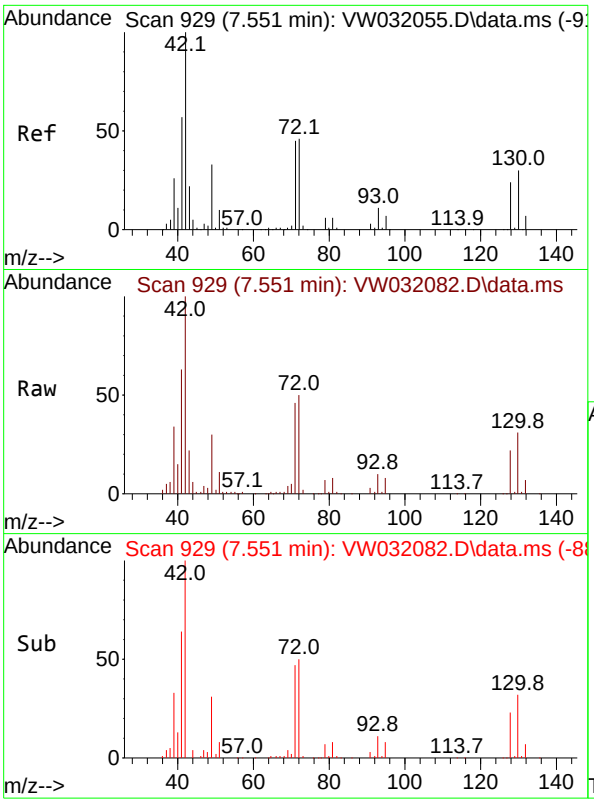


#28
Bromochloromethane
Concen: 19.189 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 49 Resp: 43295

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	82.3	61.9	92.9



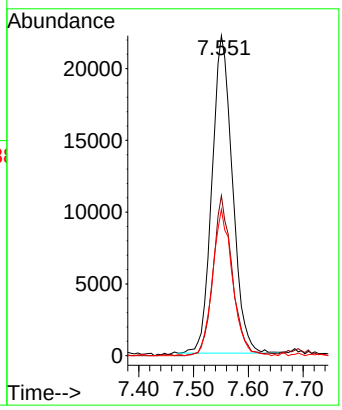


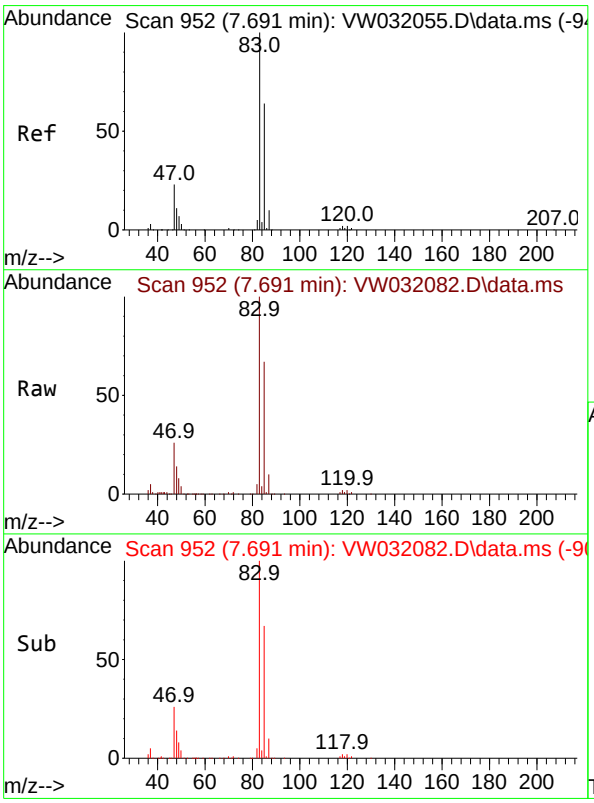
#29
Tetrahydrofuran
Concen: 87.753 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 42 Resp: 57438

Ion	Ratio	Lower	Upper
42	100		
72	47.1	36.6	55.0
71	44.8	34.7	52.1

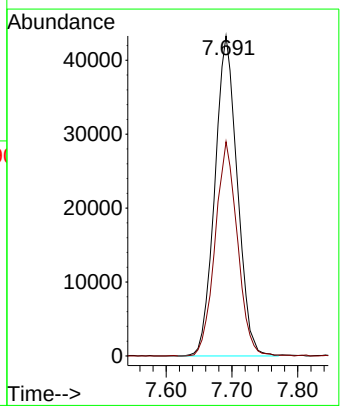


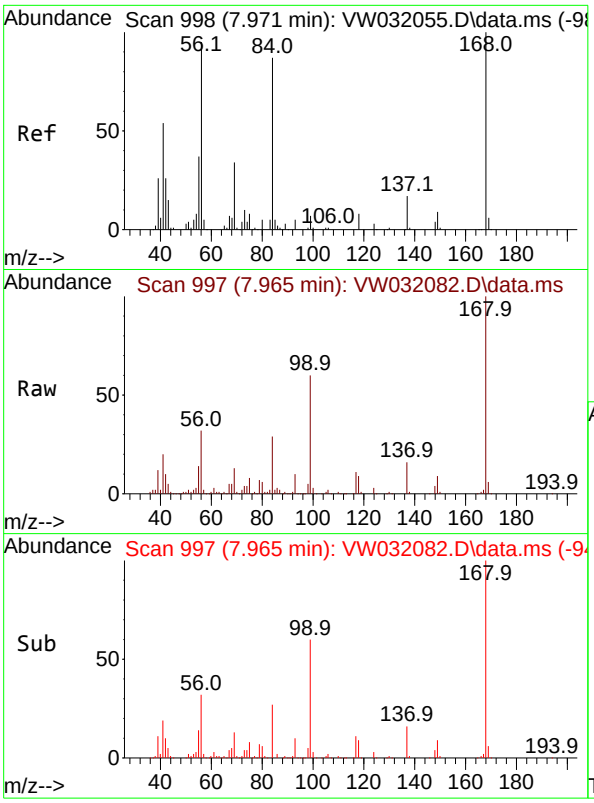


#30
Chloroform
Concen: 19.583 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 83 Resp: 102932

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.0	76.4



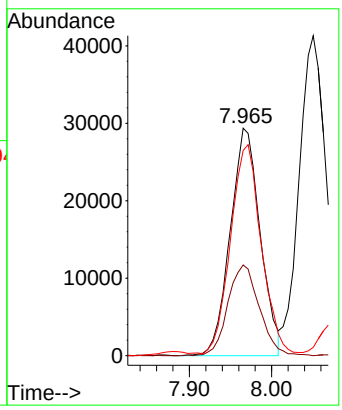


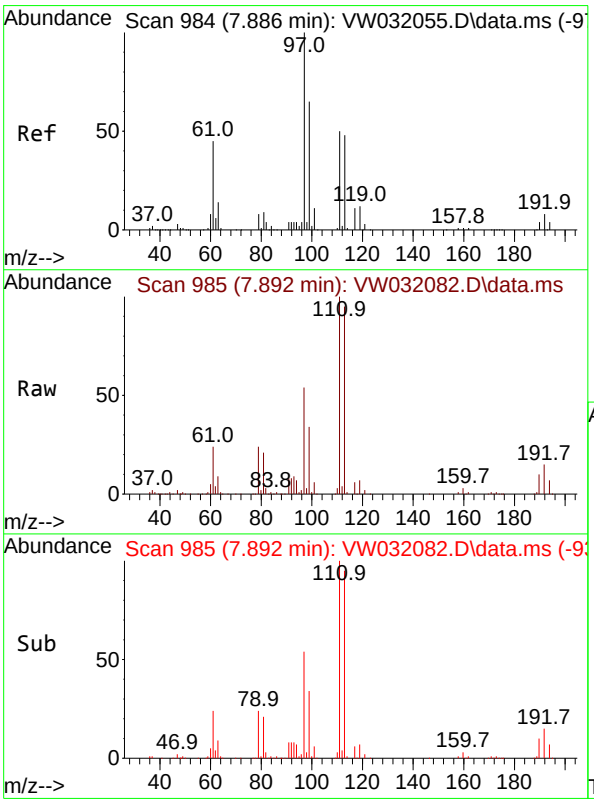
#31
Cyclohexane
Concen: 17.286 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 56 Resp: 74302

Ion	Ratio	Lower	Upper
56	100		
69	39.5	28.6	42.8
84	88.3	73.0	109.4

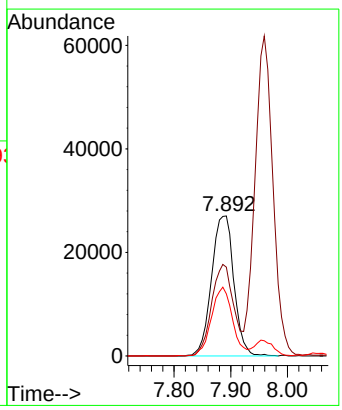


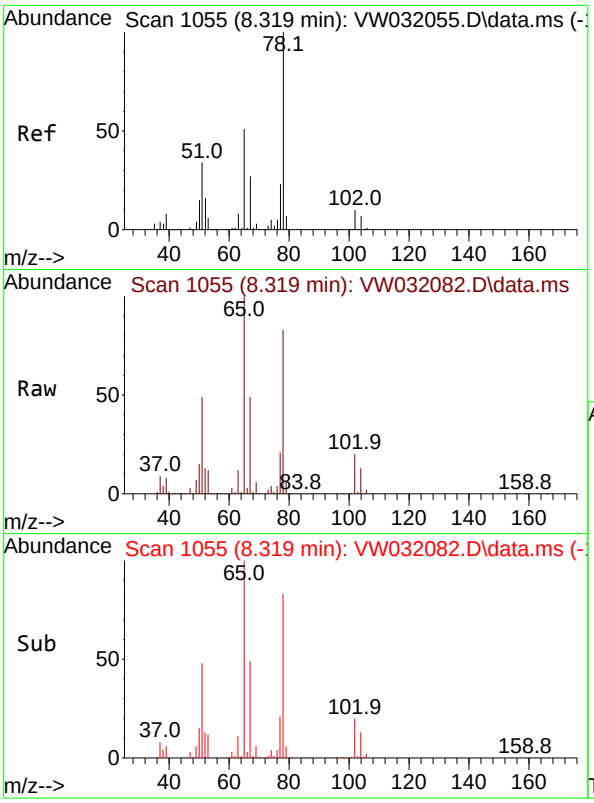


#32
1,1,1-Trichloroethane
Concen: 19.399 ug/l
RT: 7.892 min Scan# 985
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 97 Resp: 74063

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	46.3	35.9	53.9



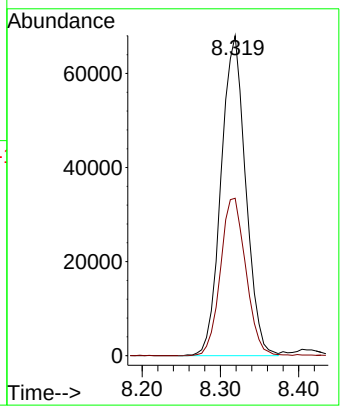


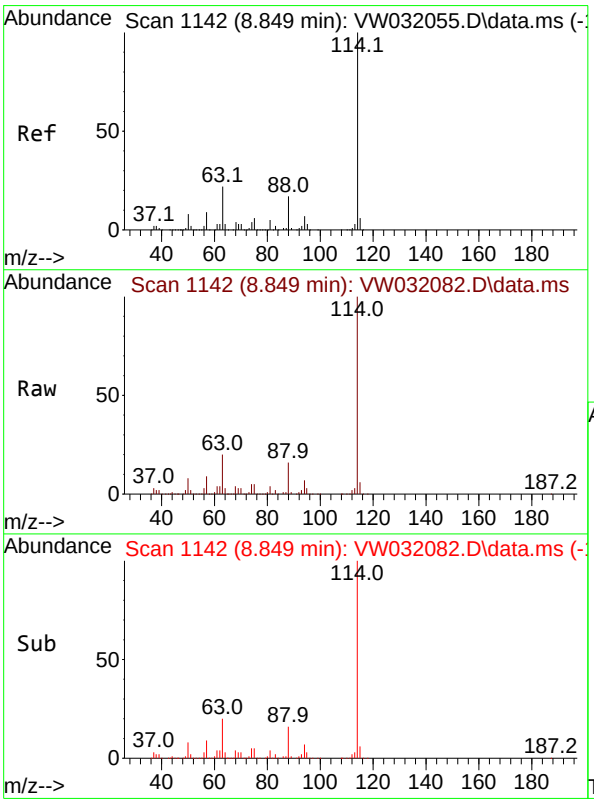
#33
1,2-Dichloroethane-d4
Concen: 49.159 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 65 Resp: 148274

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

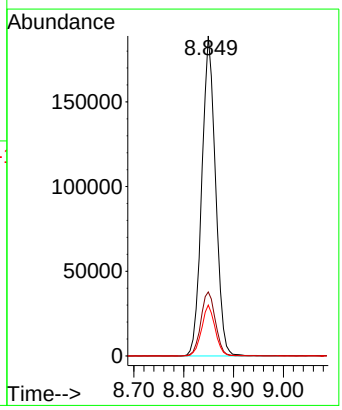


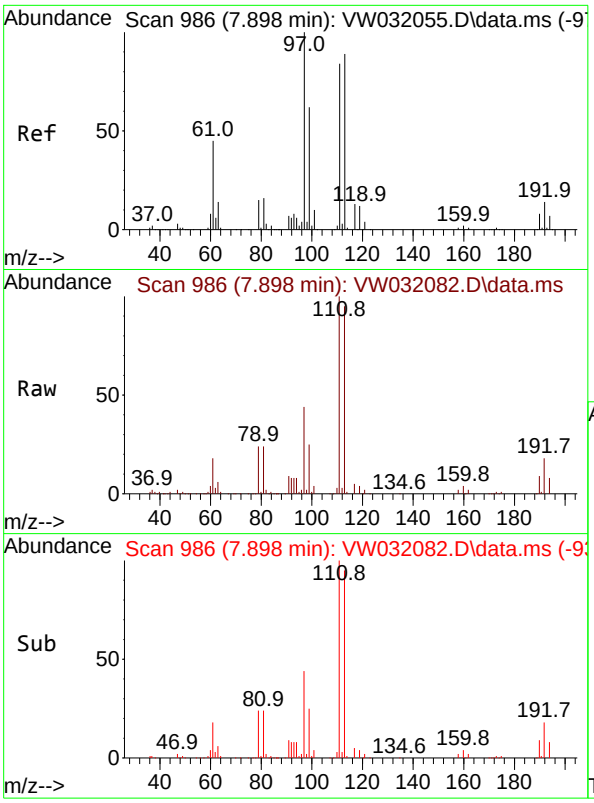


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:114 Resp: 361028

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	43.0
88	15.9	0.0	33.8



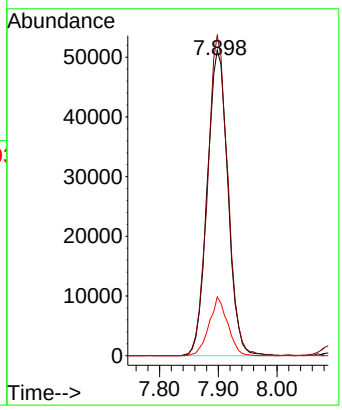


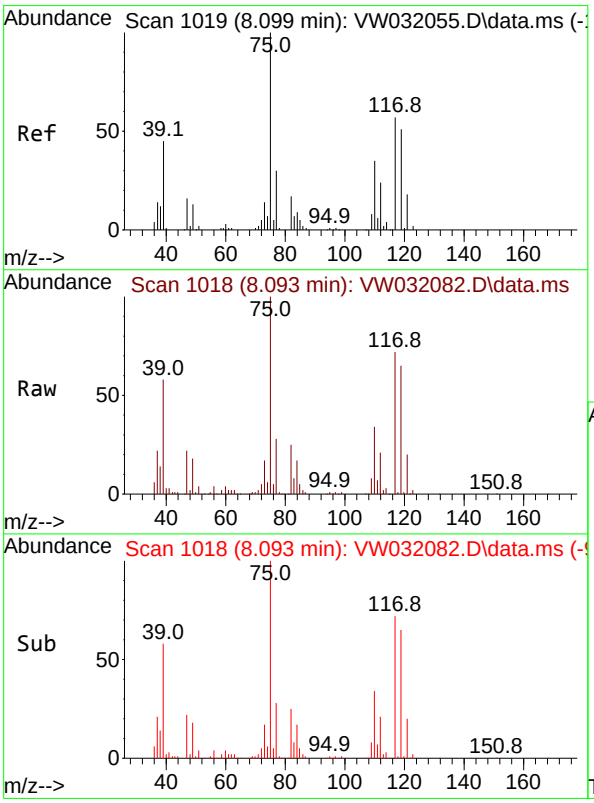
#35
Dibromofluoromethane
Concen: 53.409 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:113 Resp: 124570

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.1	120.1
192	17.4	13.1	19.7

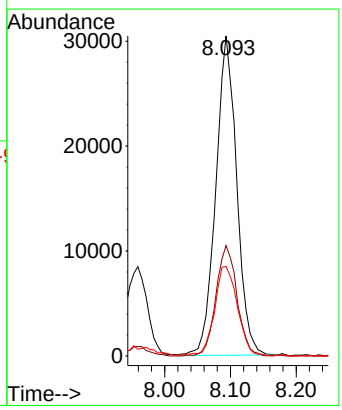


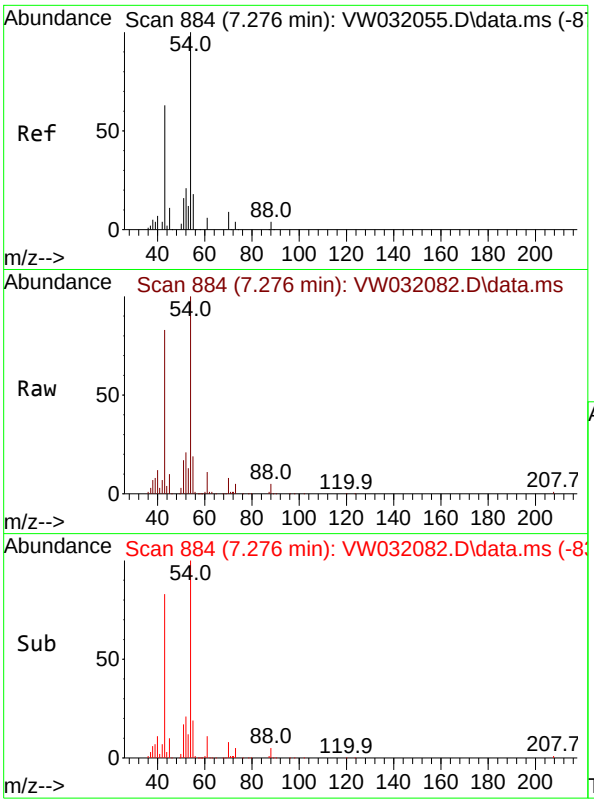


#36
1,1-Dichloropropene
Concen: 20.499 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 67400

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.4	52.2
77	30.7	24.7	37.1



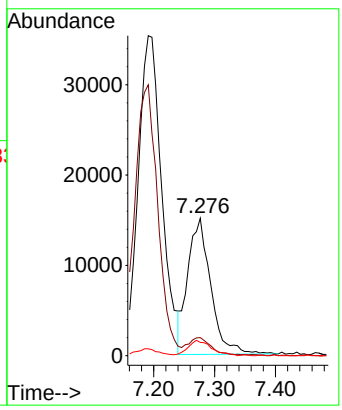


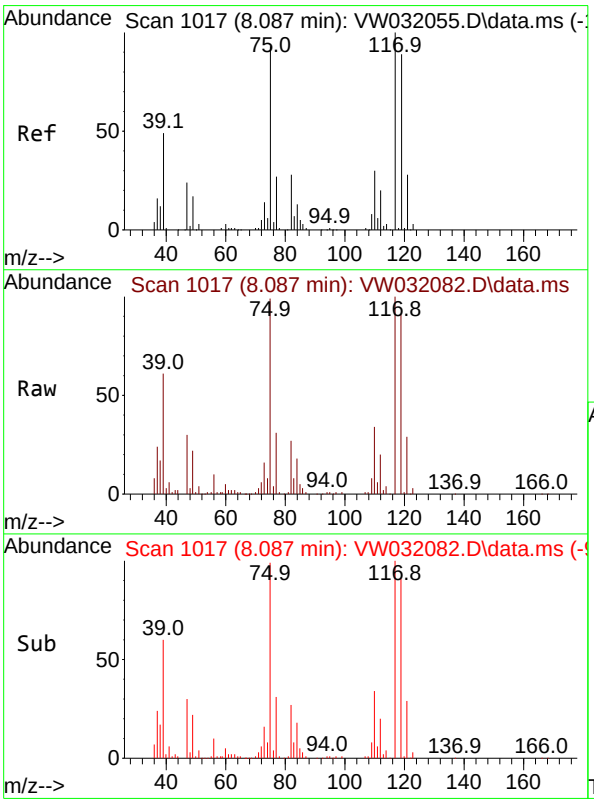
#37
Ethyl Acetate
Concen: 20.438 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 43 Resp: 39578

Ion	Ratio	Lower	Upper
43	100		
61	12.6	11.8	17.6
70	11.3	9.4	14.0

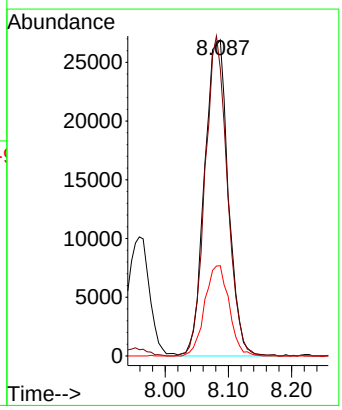


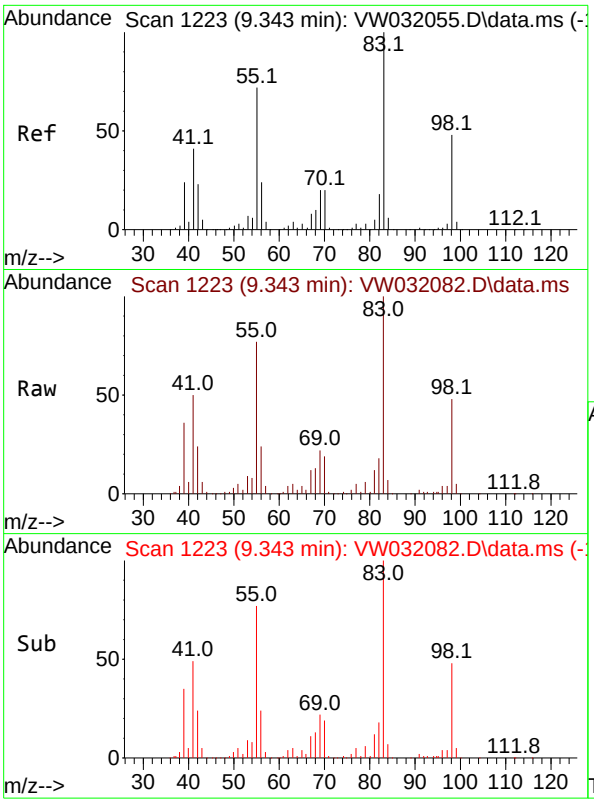


#38
Carbon Tetrachloride
Concen: 22.097 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:117 Resp: 70115

Ion	Ratio	Lower	Upper
117	100		
119	91.0	71.4	107.2
121	28.5	22.3	33.5



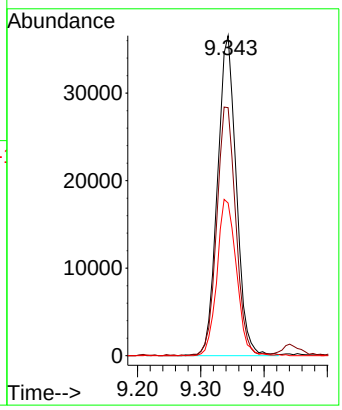


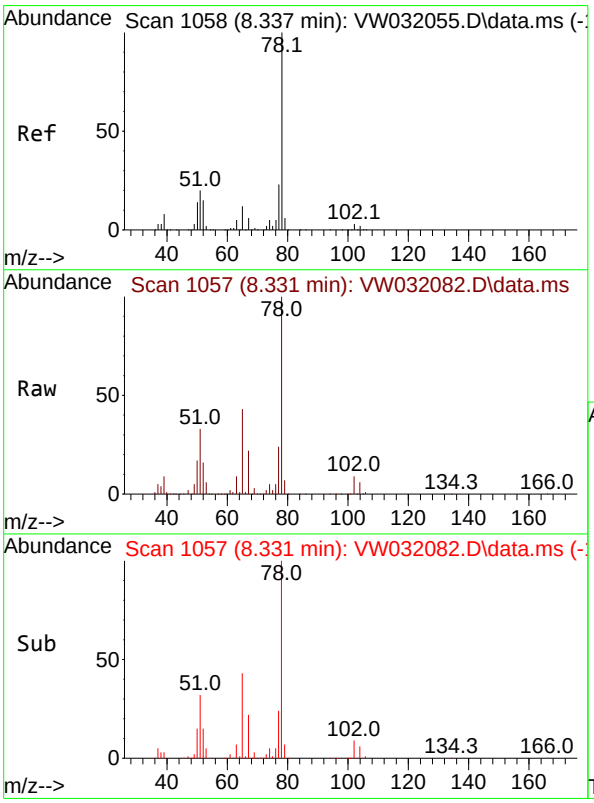
#39
Methylcyclohexane
Concen: 18.806 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 83 Resp: 75369

Ion	Ratio	Lower	Upper
83	100		
55	77.5	57.9	86.9
98	47.7	38.3	57.5

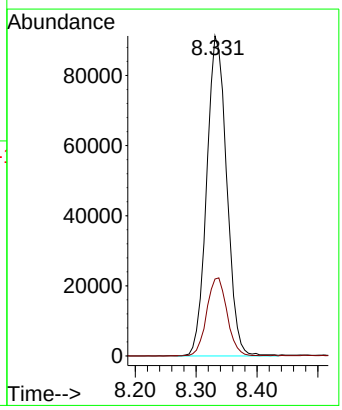


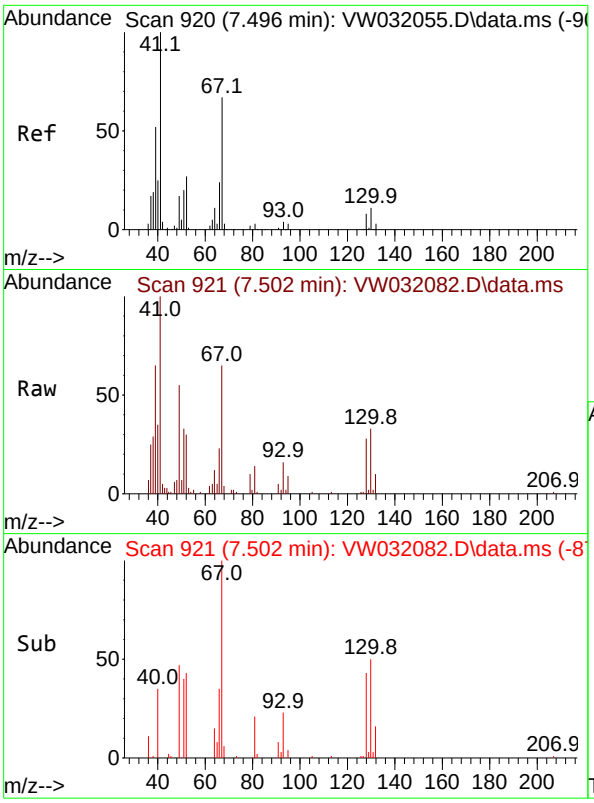


#40
Benzene
Concen: 20.384 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 78 Resp: 208337

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6



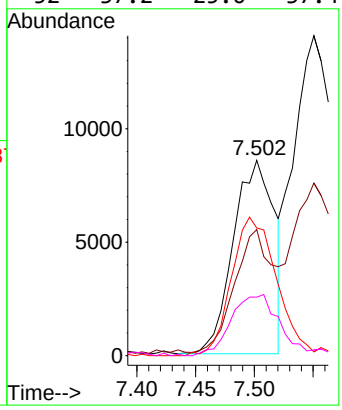


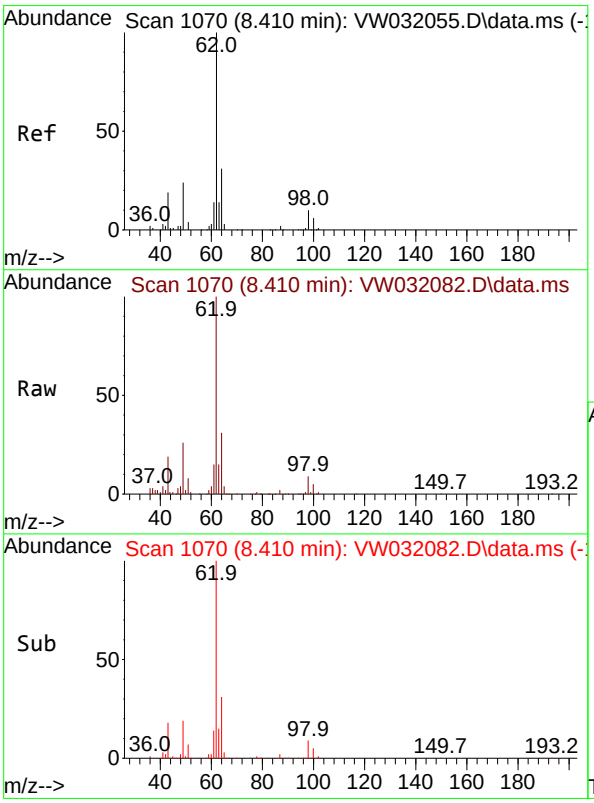
#41
Methacrylonitrile
Concen: 18.749 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 41 Resp: 20590

Ion	Ratio	Lower	Upper
41	100		
39	59.7	42.6	63.8
67	80.9	61.0	91.4
52	37.2	25.0	37.4

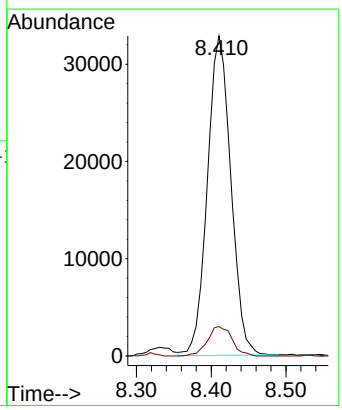


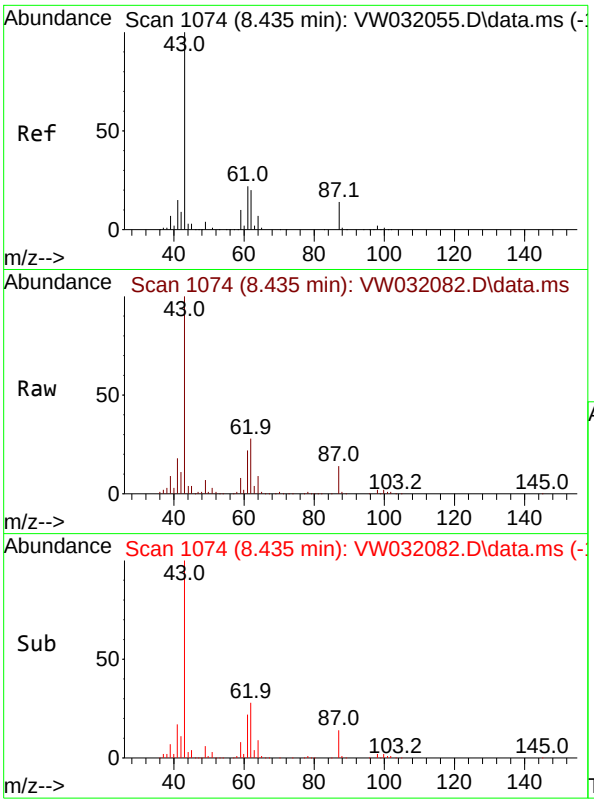


#42
1,2-Dichloroethane
Concen: 21.951 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 62 Resp: 71790

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8



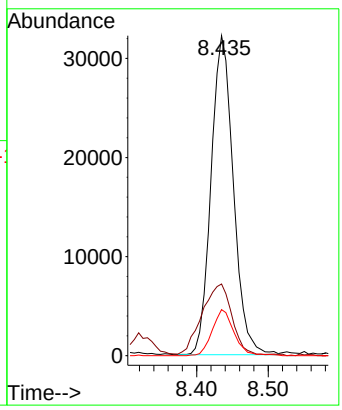


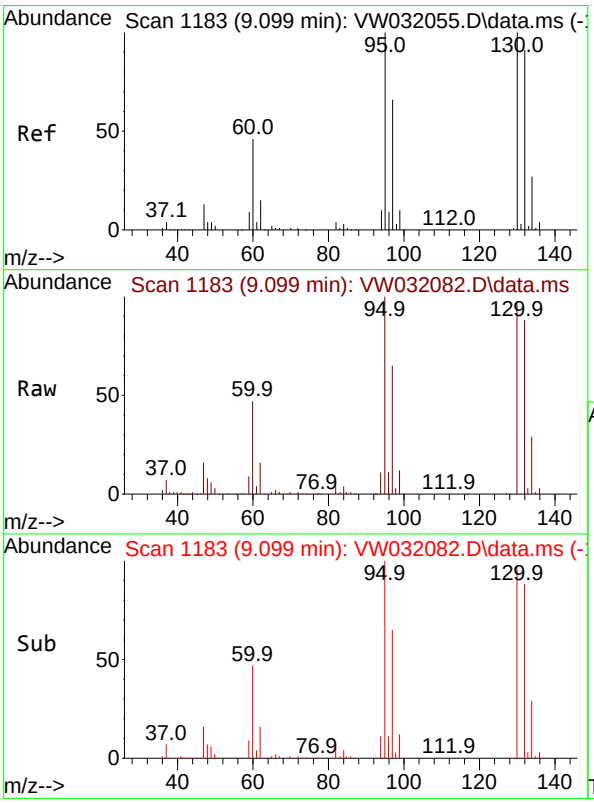
#43
Isopropyl Acetate
Concen: 19.605 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 43 Resp: 69849

Ion	Ratio	Lower	Upper
43	100		
61	29.4	23.8	35.8
87	14.1	11.7	17.5

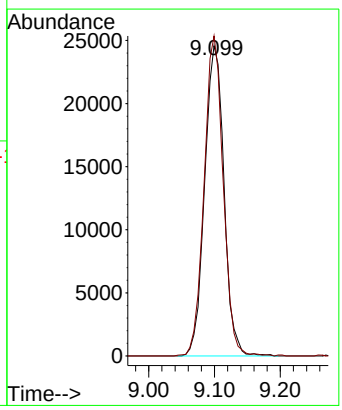


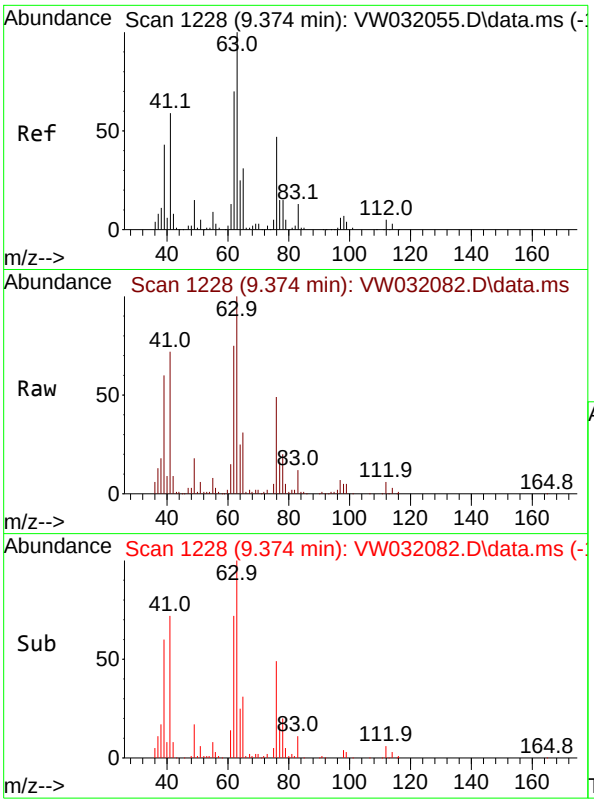


#44
Trichloroethene
Concen: 20.648 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:130 Resp: 50257

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	200.6



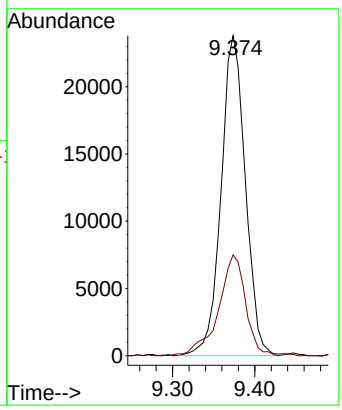


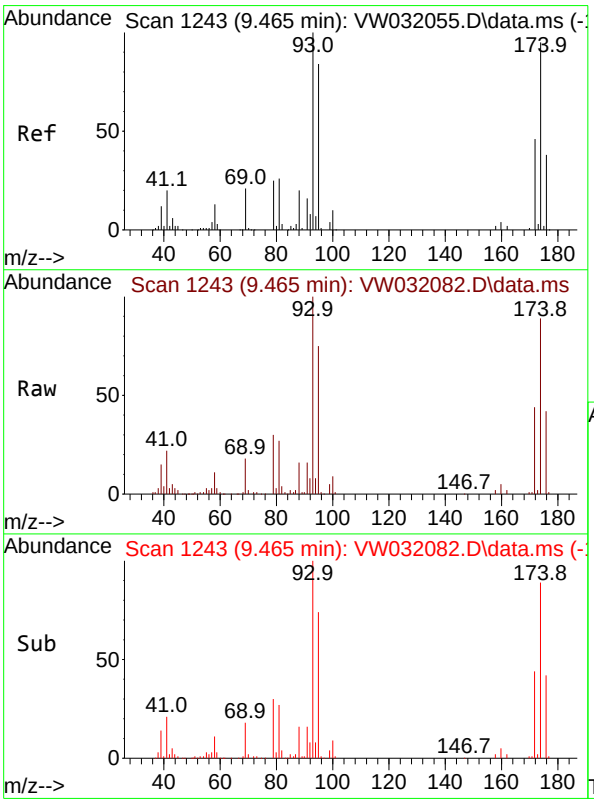
#45
1,2-Dichloropropane
Concen: 19.794 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 63 Resp: 48874

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.6	36.8

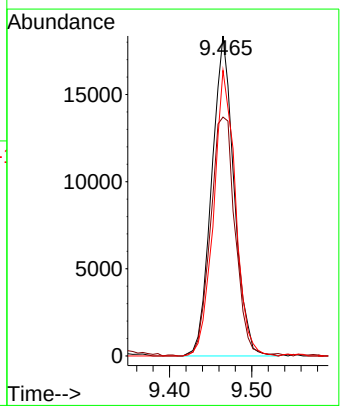


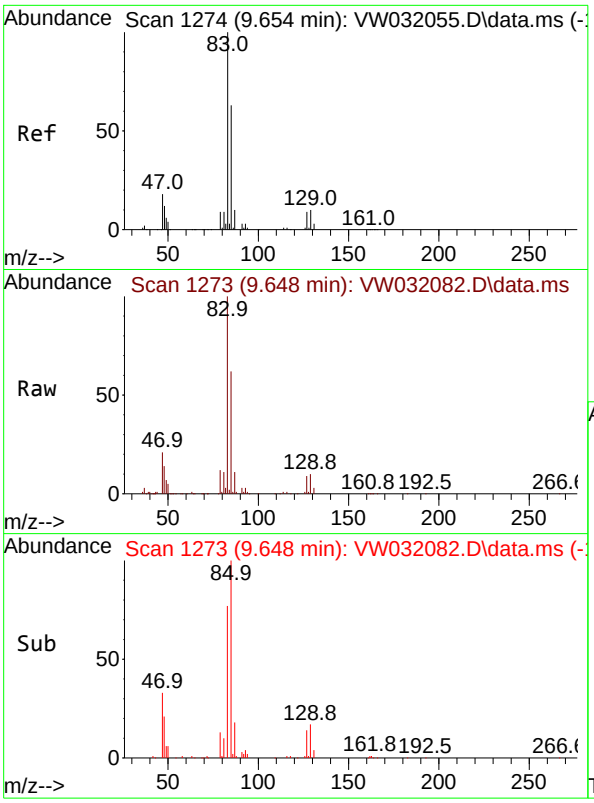


#46
Dibromomethane
Concen: 21.800 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 93 Resp: 34741

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.3	97.9
174	87.0	68.6	102.8



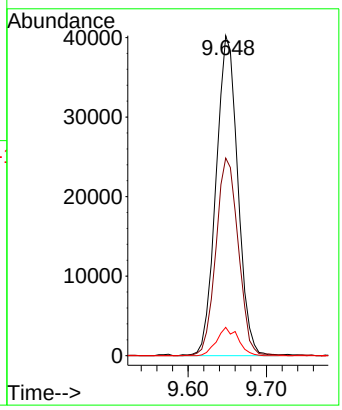


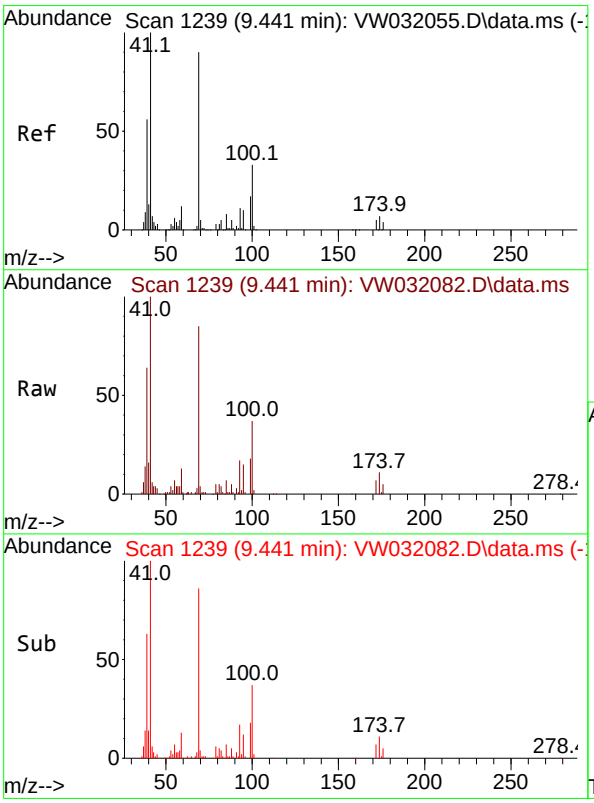
#47
Bromodichloromethane
Concen: 21.199 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 83 Resp: 77846

Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8
127	8.8	6.9	10.3

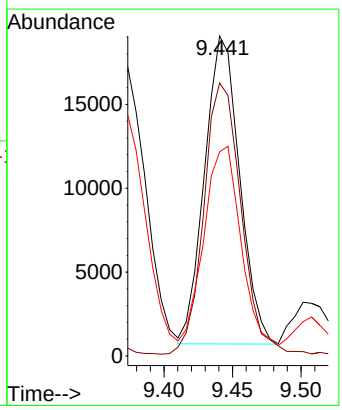


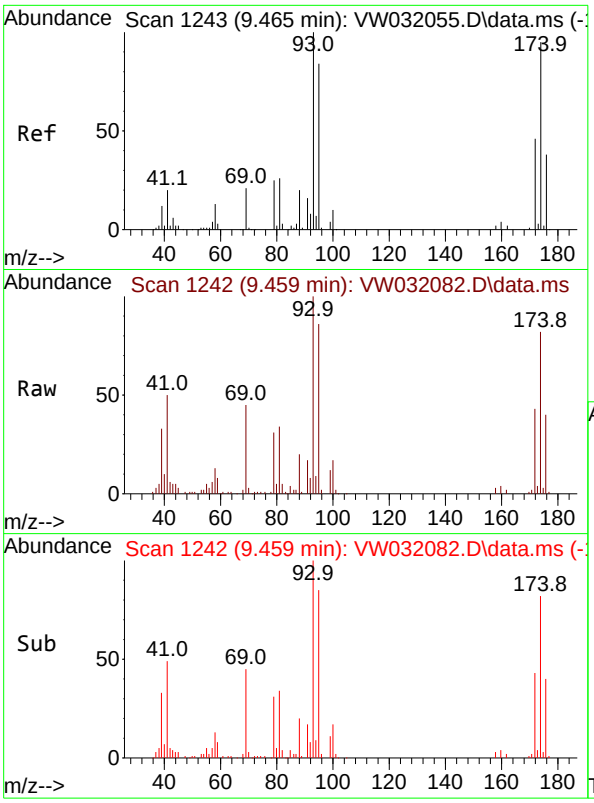


#48
Methyl methacrylate
Concen: 18.991 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 41 Resp: 32666

Ion	Ratio	Lower	Upper
41	100		
69	94.2	73.0	109.6
39	67.6	45.0	67.4#



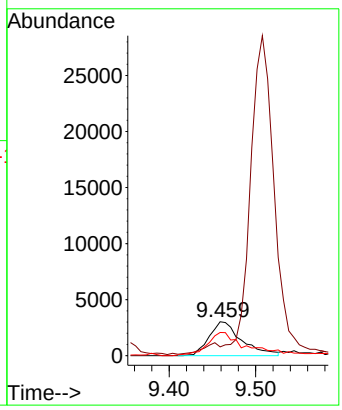


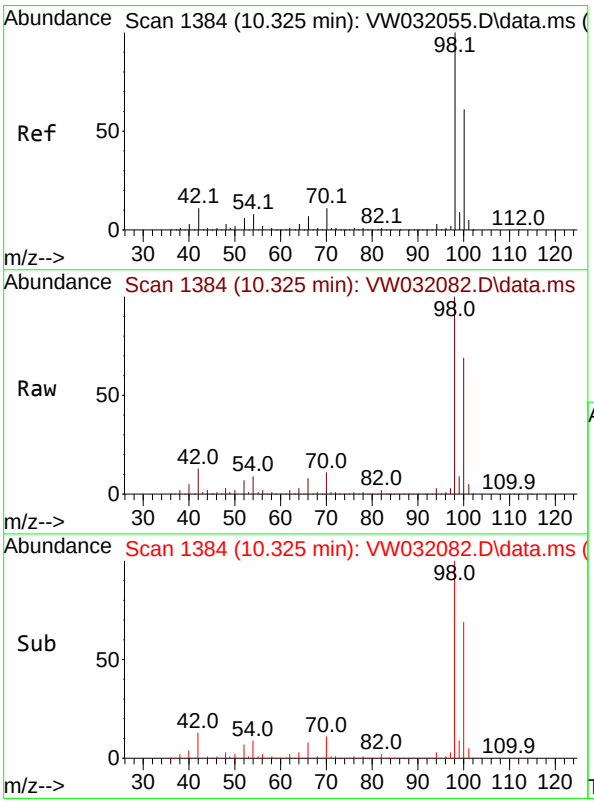
#49
1,4-Dioxane
Concen: 383.262 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 88 Resp: 7897

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	84.4	60.4	90.6

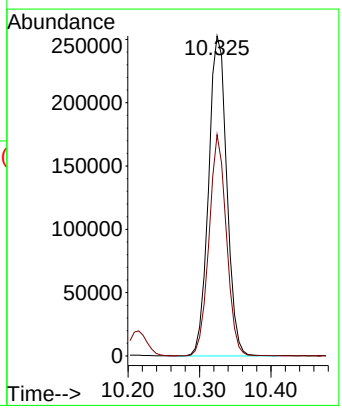


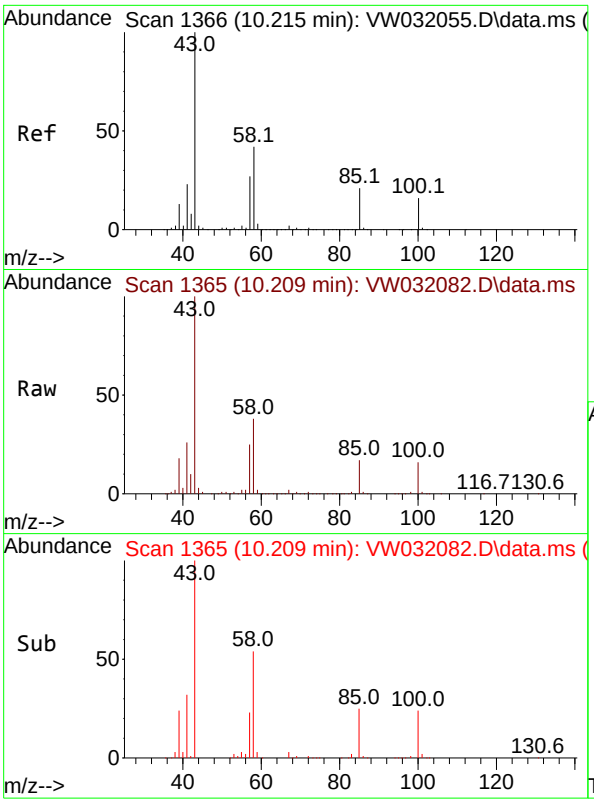


#50
Toluene-d8
Concen: 51.843 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 98 Resp: 447242

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.1	76.7



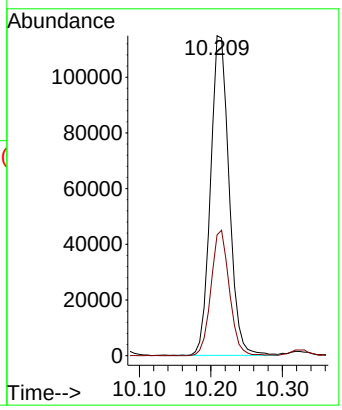


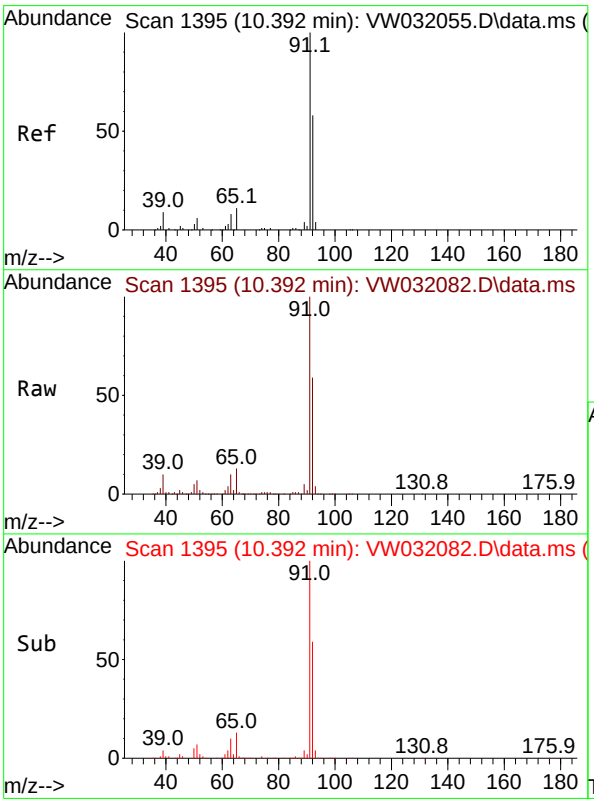
#51
4-Methyl-2-Pentanone
Concen: 103.043 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 43 Resp: 207218

Ion	Ratio	Lower	Upper
43	100		
58	38.8	33.1	49.7

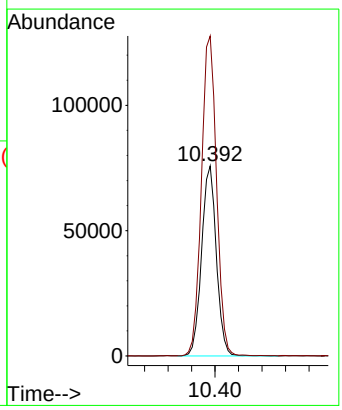


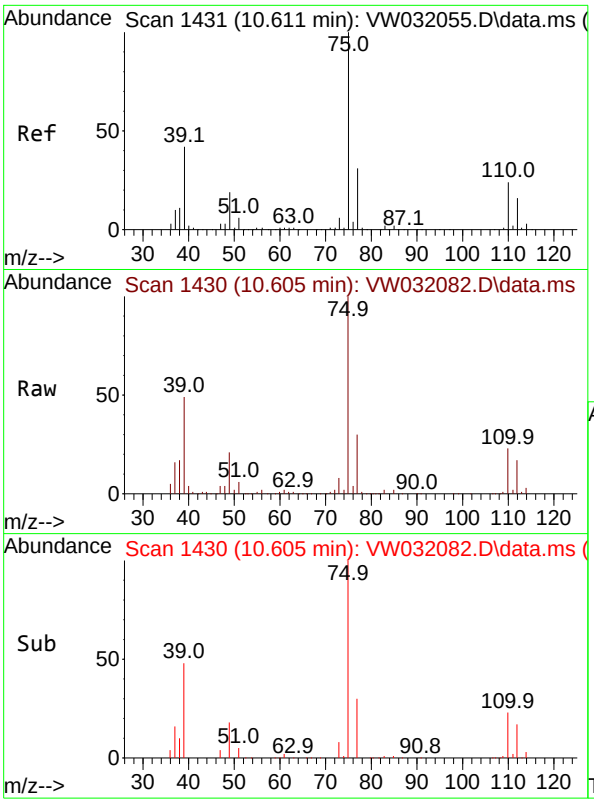


#52
Toluene
Concen: 20.554 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 92 Resp: 132319

Ion	Ratio	Lower	Upper
92	100		
91	172.3	136.3	204.5



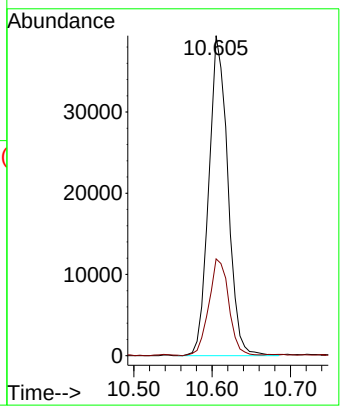


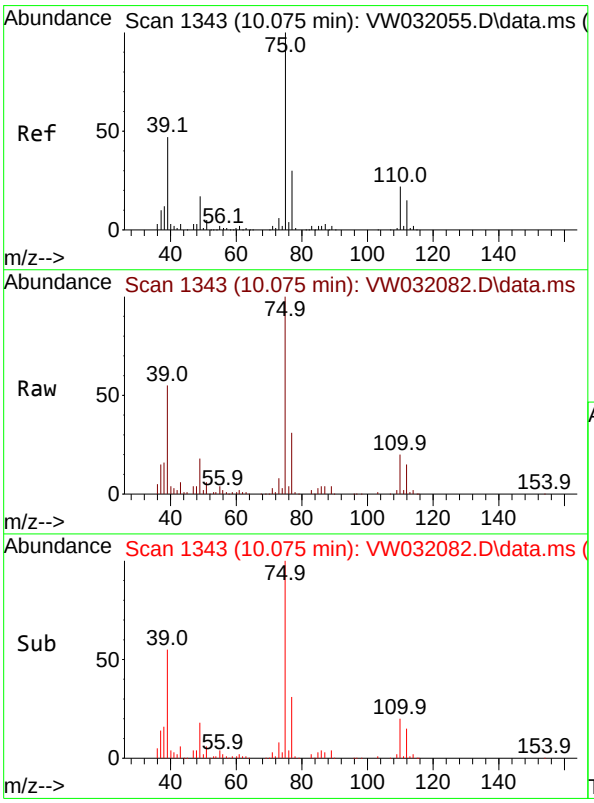
#53
t-1,3-Dichloropropene
Concen: 19.346 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 75 Resp: 66557

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.0	37.6

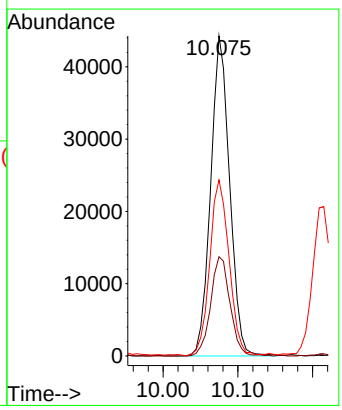


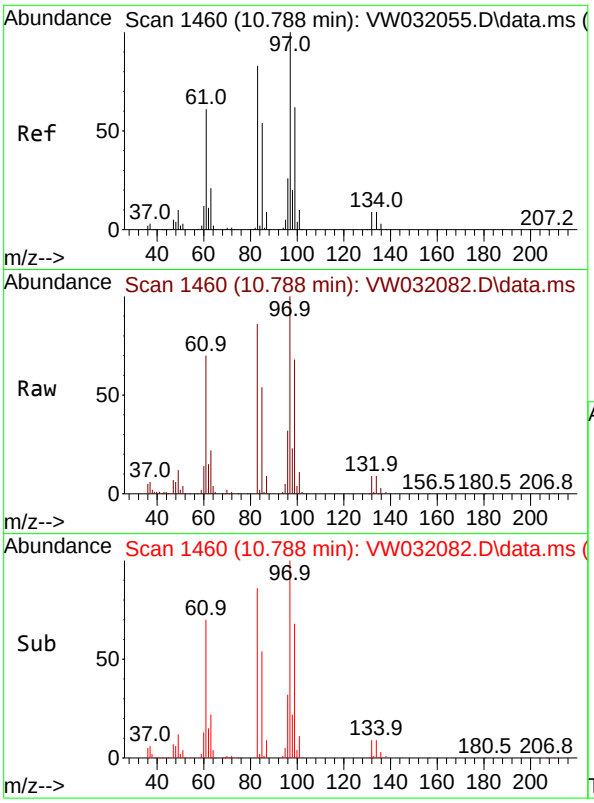


#54
cis-1,3-Dichloropropene
Concen: 19.970 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 77941

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.0	36.0
39	54.7	37.8	56.8



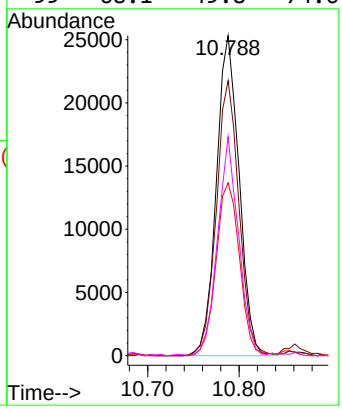


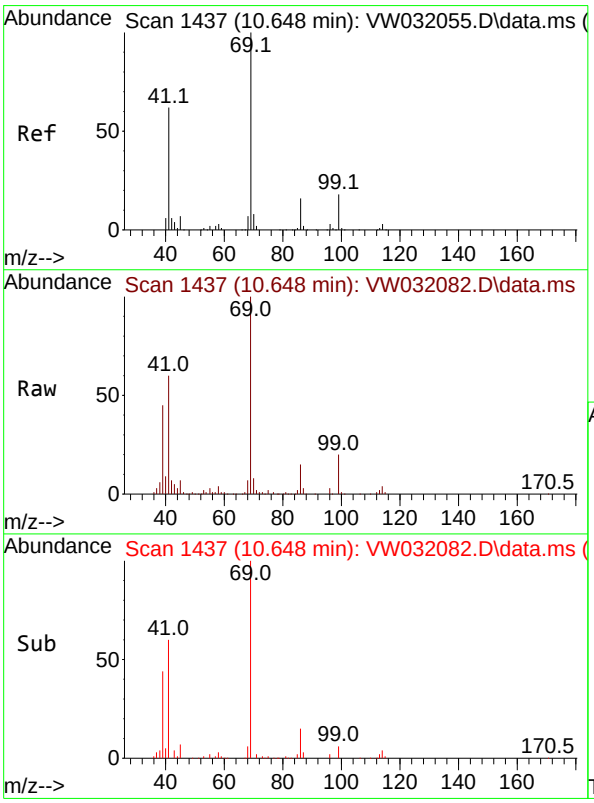
#55
1,1,2-Trichloroethane
Concen: 20.705 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 97 Resp: 43846

Ion	Ratio	Lower	Upper
97	100		
83	85.9	66.4	99.6
85	54.0	43.1	64.7
99	68.1	49.8	74.6

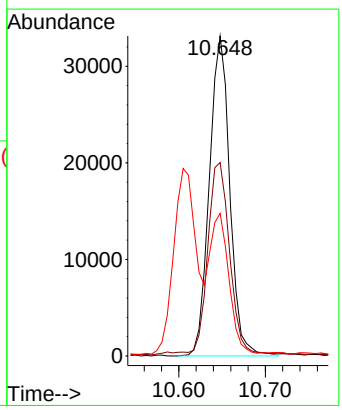


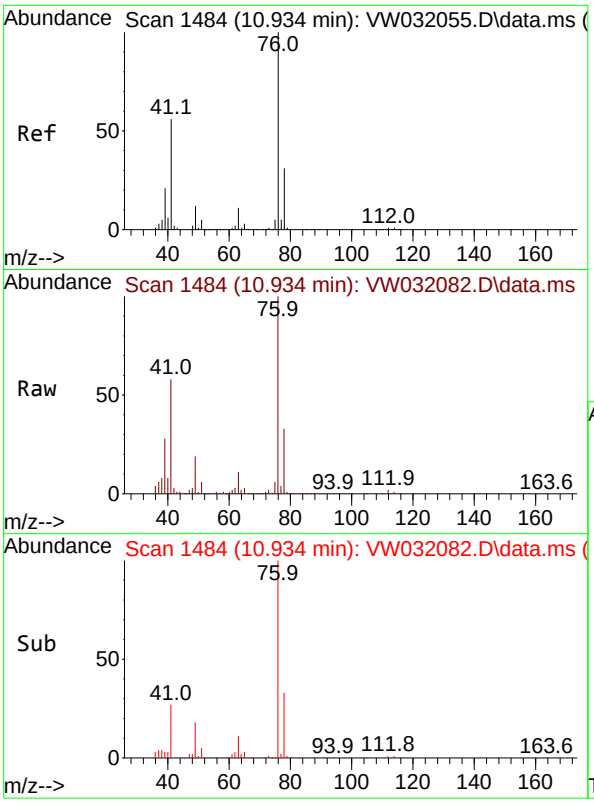


#56
Ethyl methacrylate
Concen: 19.216 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 69 Resp: 54454

Ion	Ratio	Lower	Upper
69	100		
41	64.6	51.2	76.8
39	40.4	25.4	38.0#



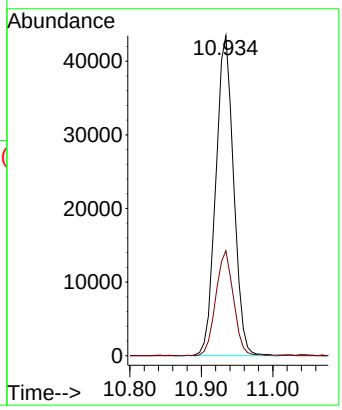


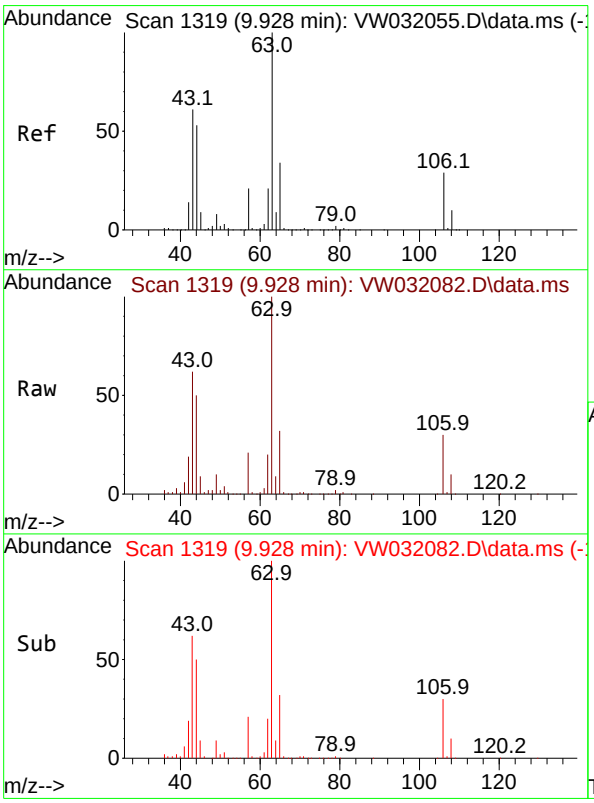
#57
1,3-Dichloropropane
Concen: 20.384 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 76 Resp: 75241

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

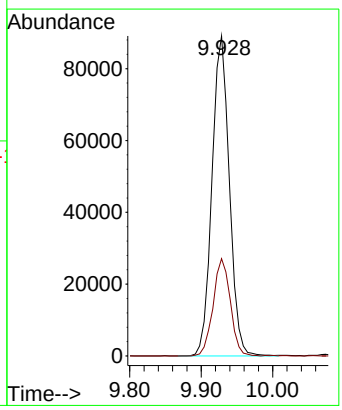


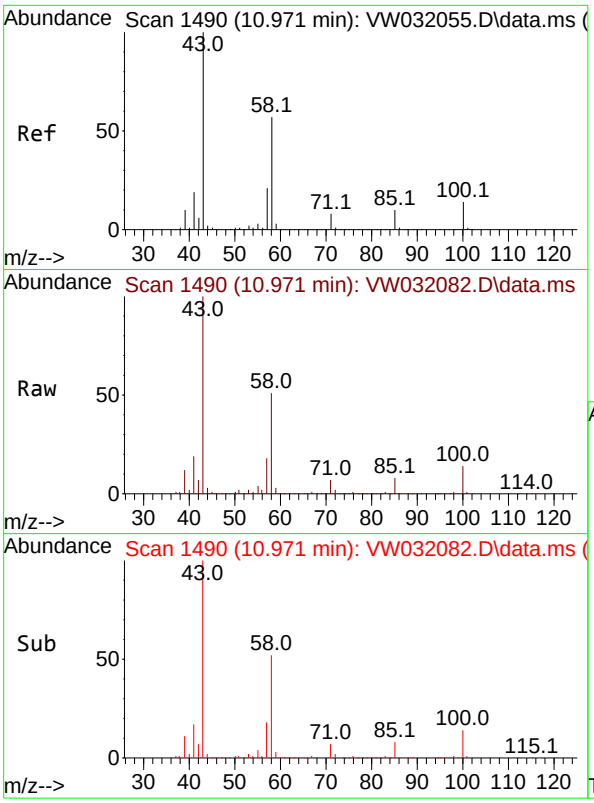


#58
2-Chloroethyl Vinyl ether
Concen: 95.881 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 63 Resp: 150289

Ion	Ratio	Lower	Upper
63	100		
106	30.1	23.5	35.3



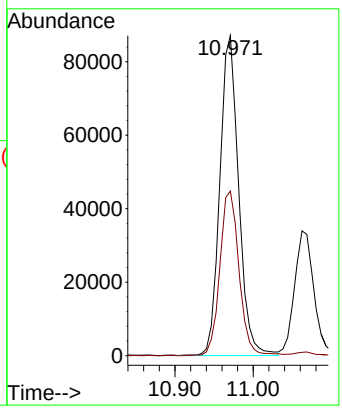


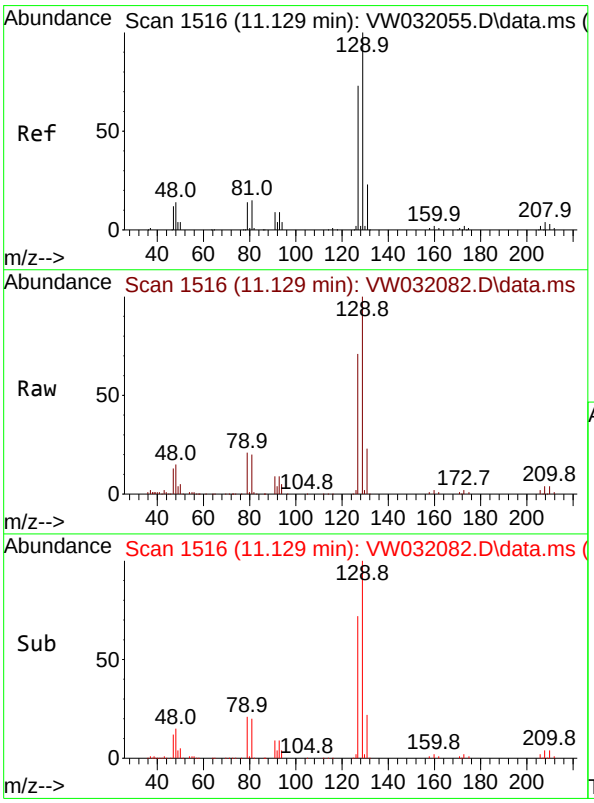
#59
2-Hexanone
Concen: 104.476 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 43 Resp: 145508

Ion	Ratio	Lower	Upper
43	100		
58	52.4	28.3	85.0

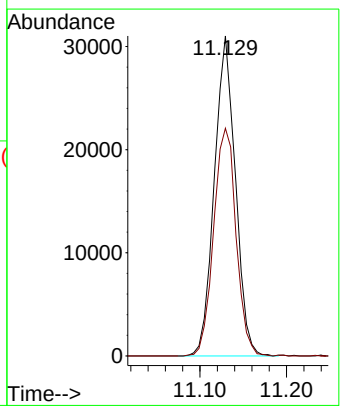


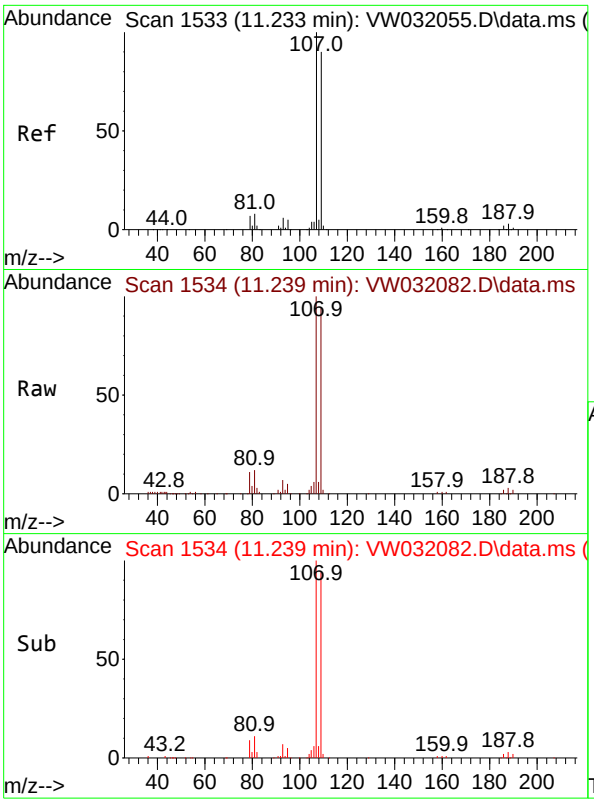


#60
Dibromochloromethane
Concen: 21.668 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:129 Resp: 52415

Ion	Ratio	Lower	Upper
129	100		
127	75.7	39.0	116.9



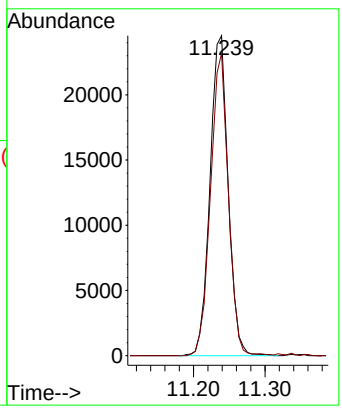


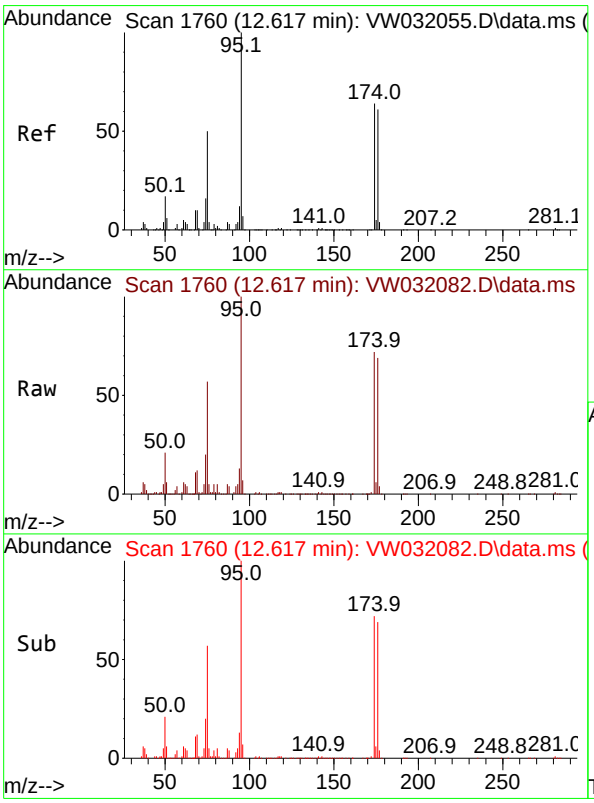
#61
1,2-Dibromoethane
Concen: 20.995 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:107 Resp: 43206

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.2	111.4

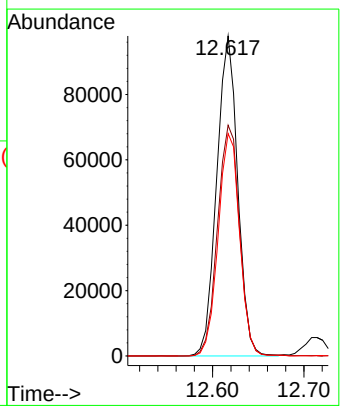


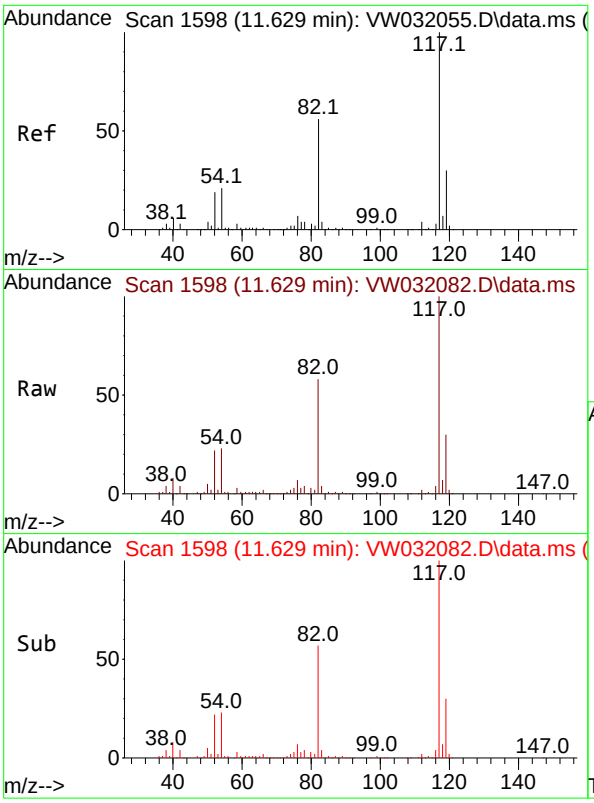


#62
4-Bromofluorobenzene
Concen: 49.195 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 95 Resp: 156394

Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	129.0
176	71.0	0.0	124.6



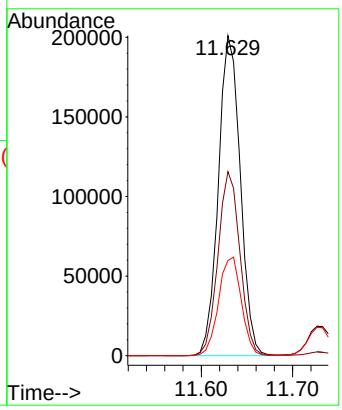


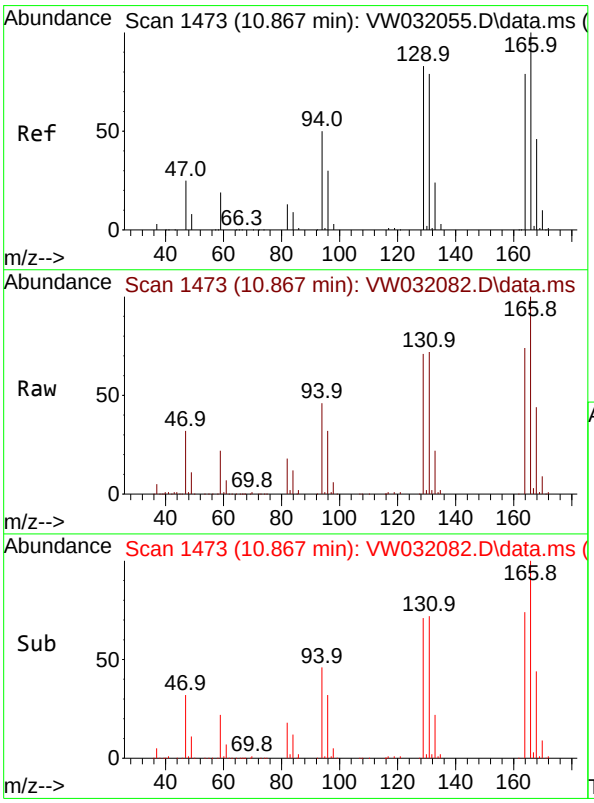
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:117 Resp: 335310

Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.0	67.4
119	29.7	24.2	36.4

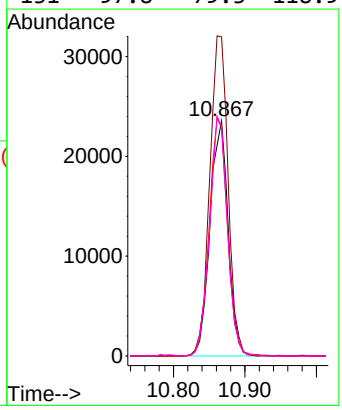


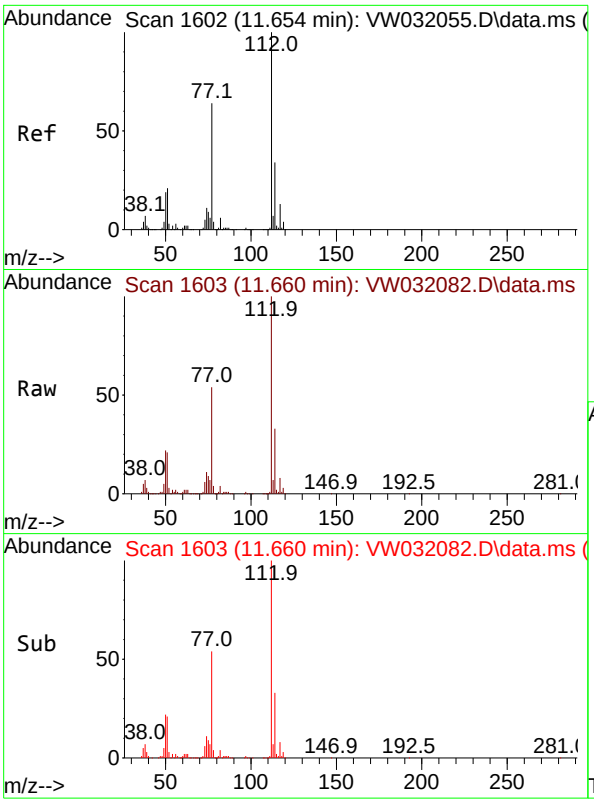


#64
Tetrachloroethene
Concen: 21.451 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:164 Resp: 41545

Ion	Ratio	Lower	Upper
164	100		
166	135.9	100.9	151.3
129	96.9	83.6	125.4
131	97.8	79.3	118.9



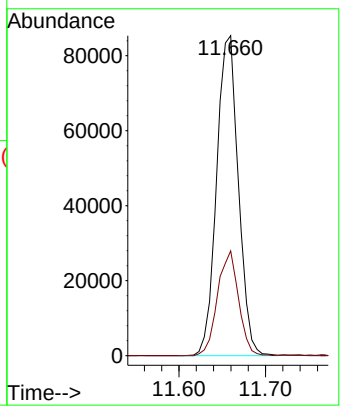


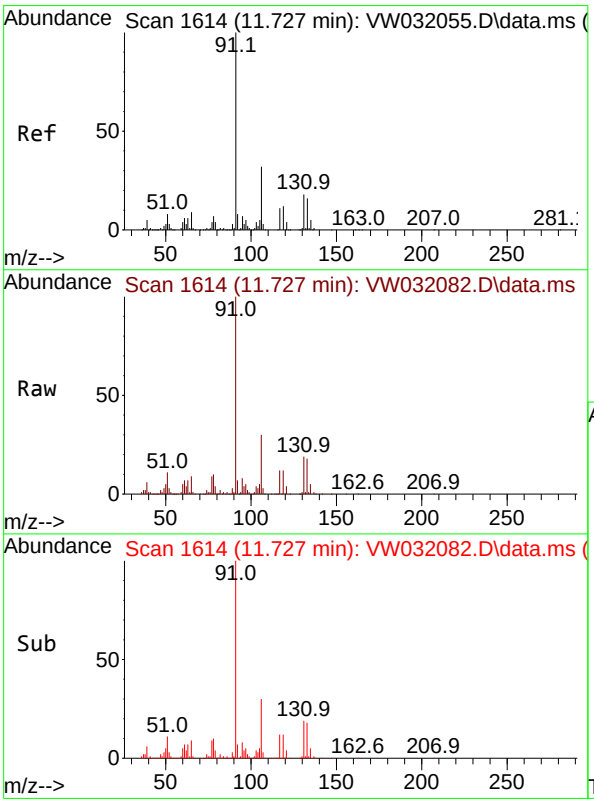
#65
Chlorobenzene
Concen: 20.395 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:112 Resp: 148850

Ion	Ratio	Lower	Upper
112	100		
114	32.8	26.9	40.3

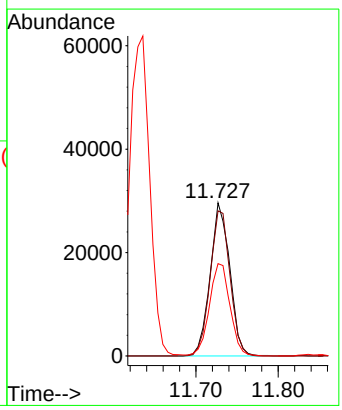


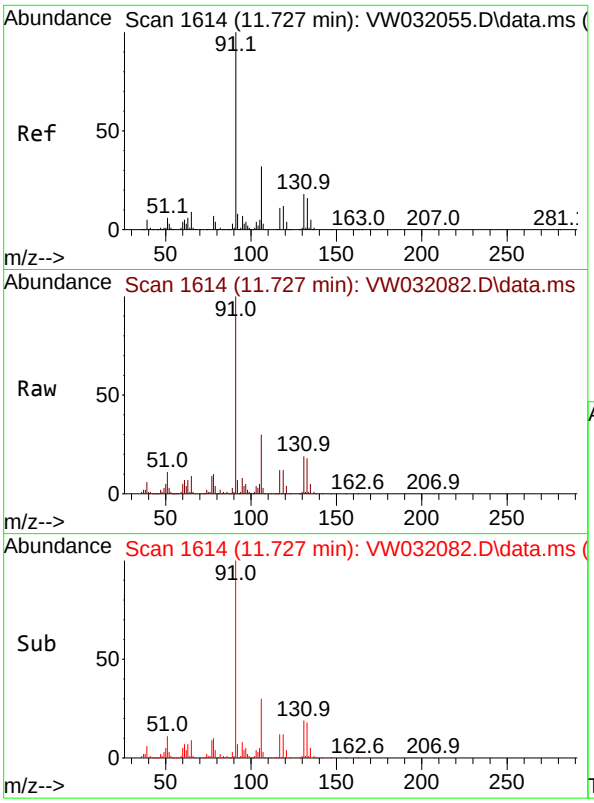


#66
1,1,1,2-Tetrachloroethane
Concen: 21.525 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:131 Resp: 49016

Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.3	142.0
119	63.4	34.5	103.5



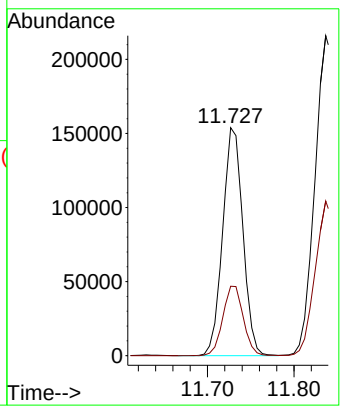


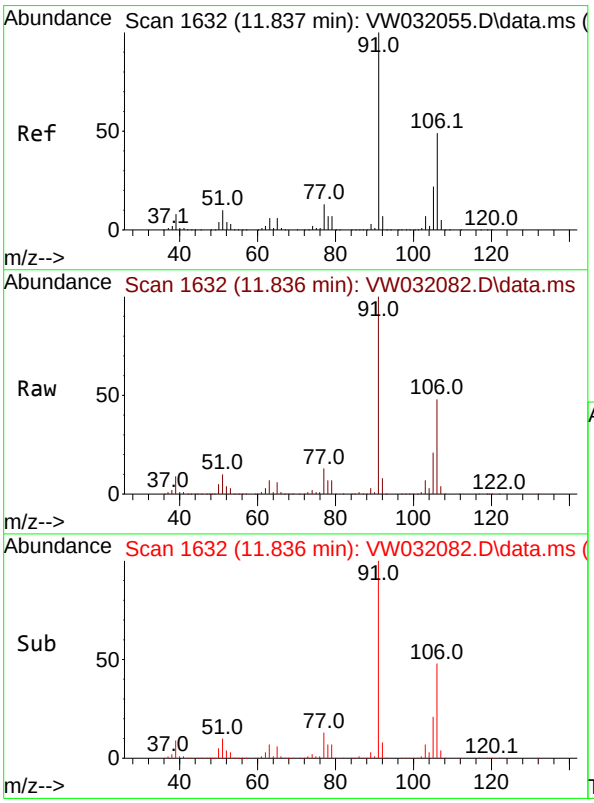
#67
Ethyl Benzene
Concen: 20.179 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 91 Resp: 249471

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0

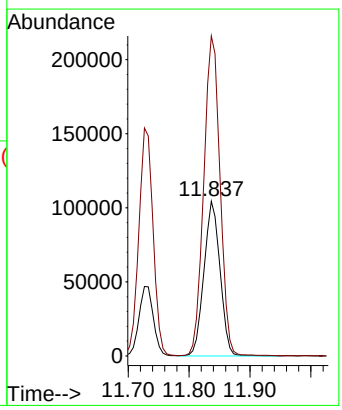


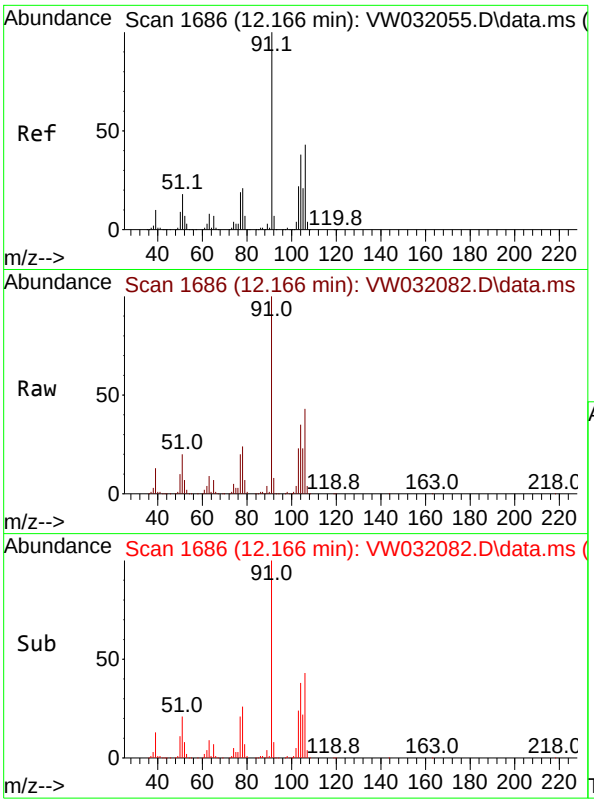


#68
m/p-Xylenes
Concen: 40.121 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:106 Resp: 191394

Ion	Ratio	Lower	Upper
106	100		
91	209.1	162.2	243.2



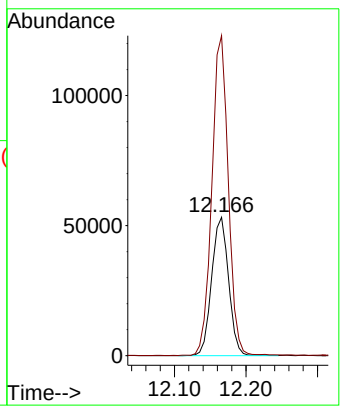


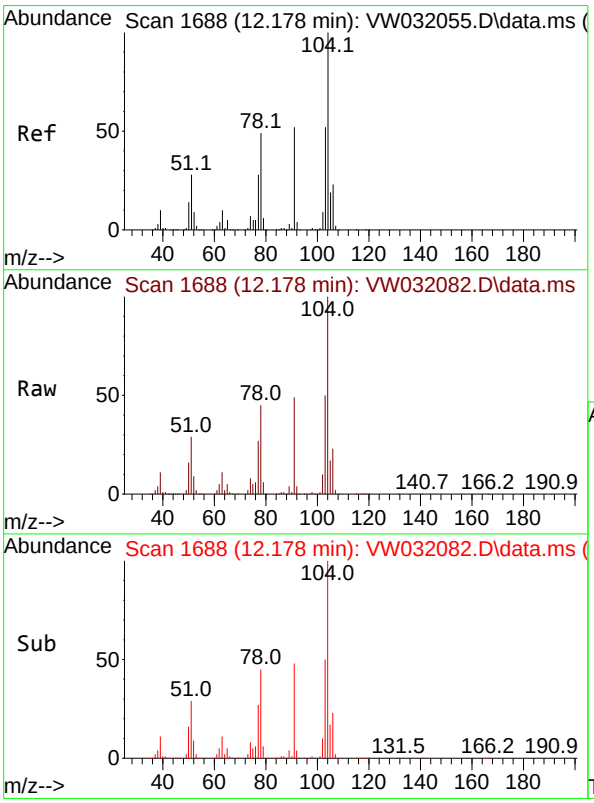
#69
o-Xylene
Concen: 19.829 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:106 Resp: 87428

Ion	Ratio	Lower	Upper
106	100		
91	224.3	110.8	332.3

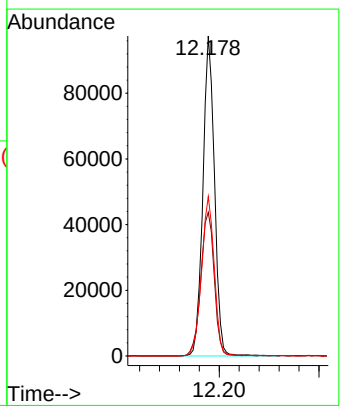


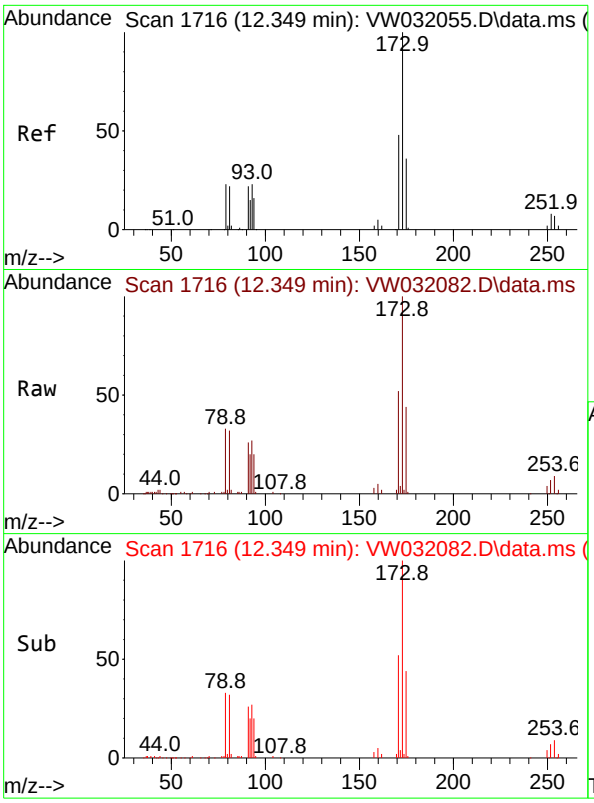


#70
Styrene
Concen: 20.133 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:104 Resp: 157674

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.2	61.8
103	54.6	43.8	65.8



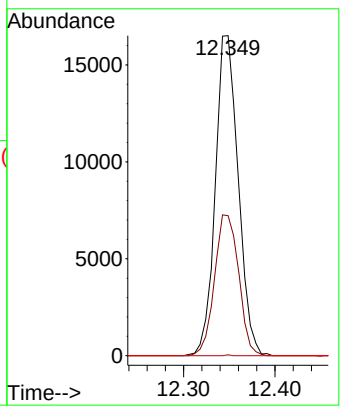


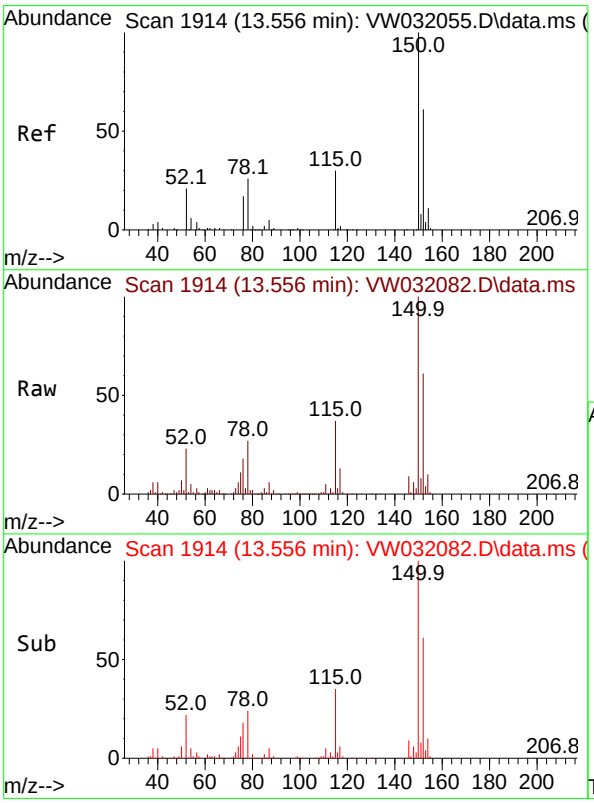
#71
Bromoform
Concen: 22.114 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:173 Resp: 28805

Ion	Ratio	Lower	Upper
173	100		
175	46.3	22.9	68.7
254	0.1	0.0	0.0#

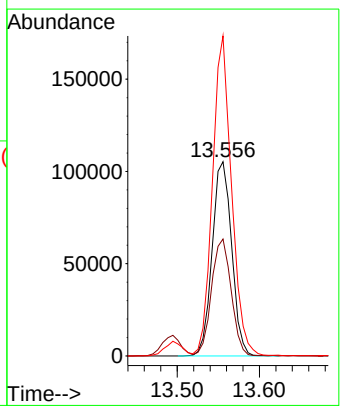


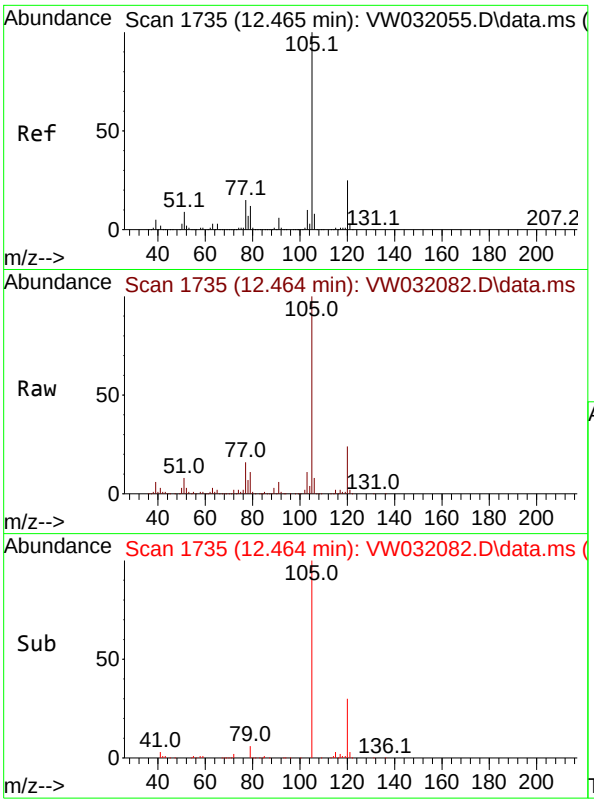


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:152 Resp: 173541

Ion	Ratio	Lower	Upper
152	100		
115	60.4	32.6	97.8
150	161.1	0.0	359.4



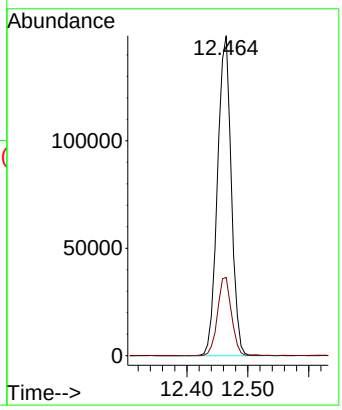


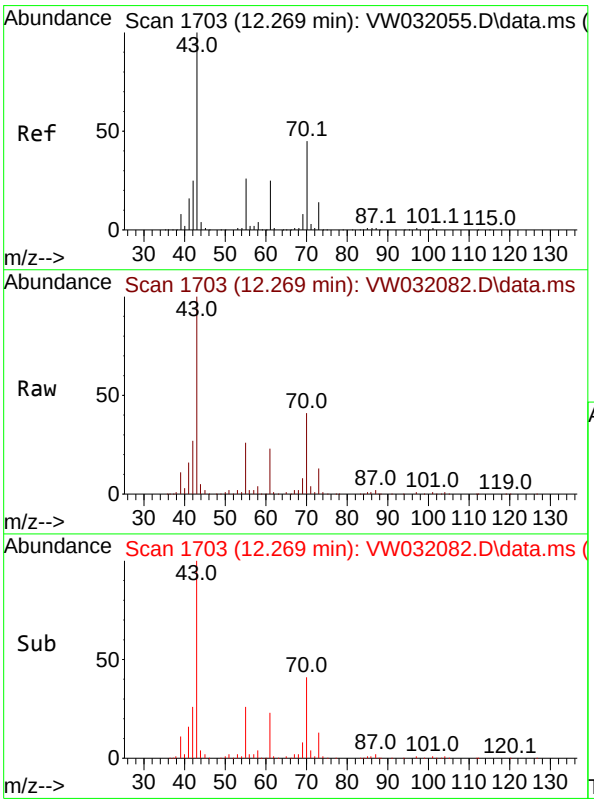
#73
Isopropylbenzene
Concen: 19.298 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:105 Resp: 234043

Ion	Ratio	Lower	Upper
105	100		
120	24.8	12.8	38.4

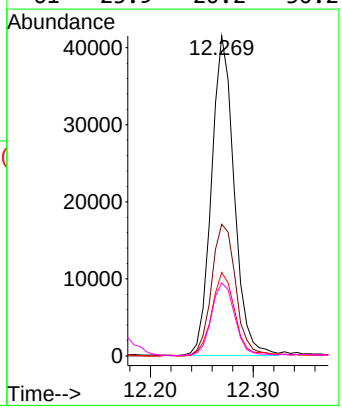


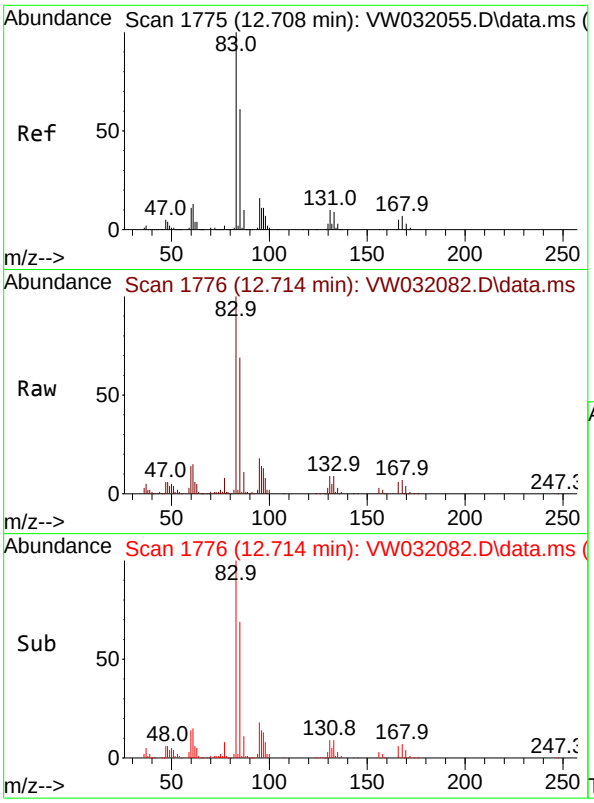


#74
N-amyl acetate
Concen: 18.263 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 43 Resp: 63547

Ion	Ratio	Lower	Upper
43	100		
70	44.6	37.0	55.4
55	27.2	21.1	31.7
61	23.9	20.2	30.2



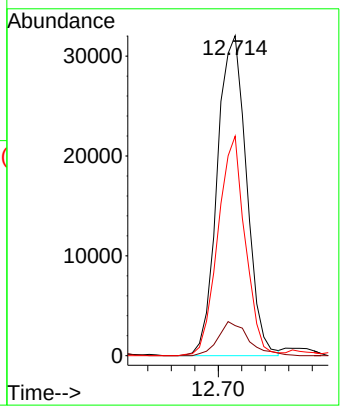


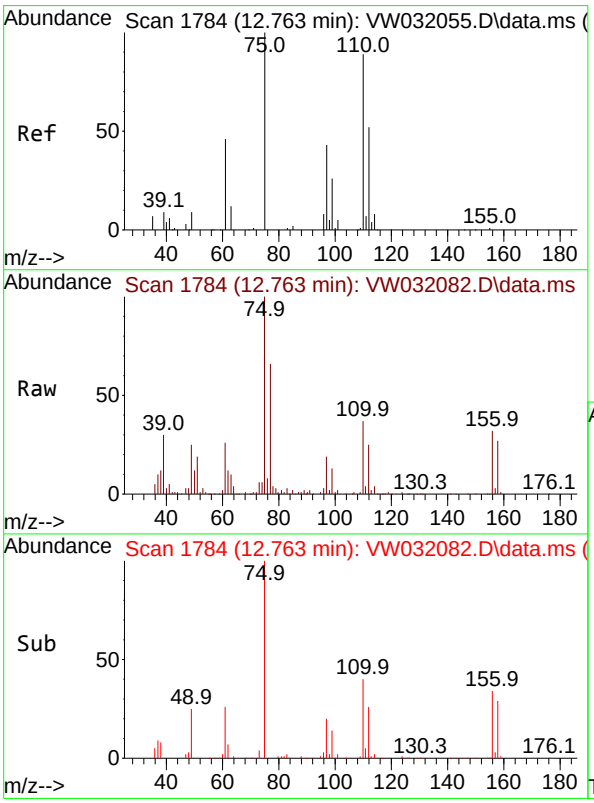
#75
1,1,2,2-Tetrachloroethane
Concen: 19.244 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 83 Resp: 55414

Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.1	15.4
85	64.0	32.2	96.6

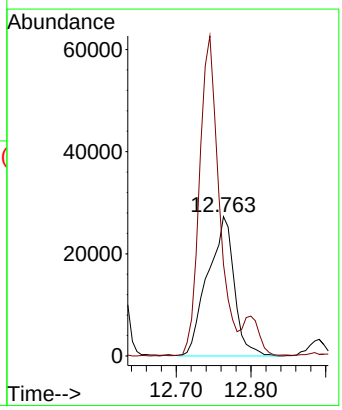


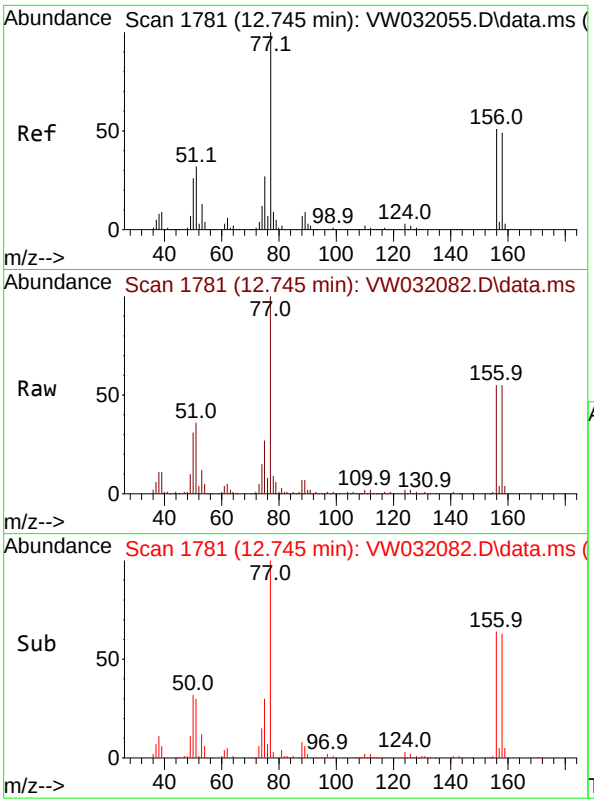


#76
1,2,3-Trichloropropane
Concen: 28.664 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 67514

Ion	Ratio	Lower	Upper
75	100		
77	168.6	123.5	370.5



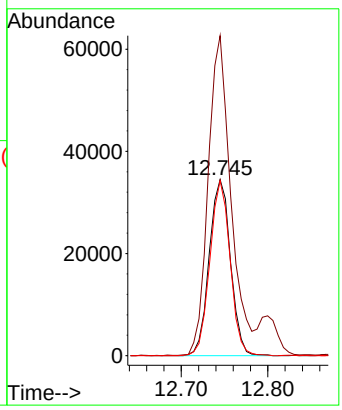


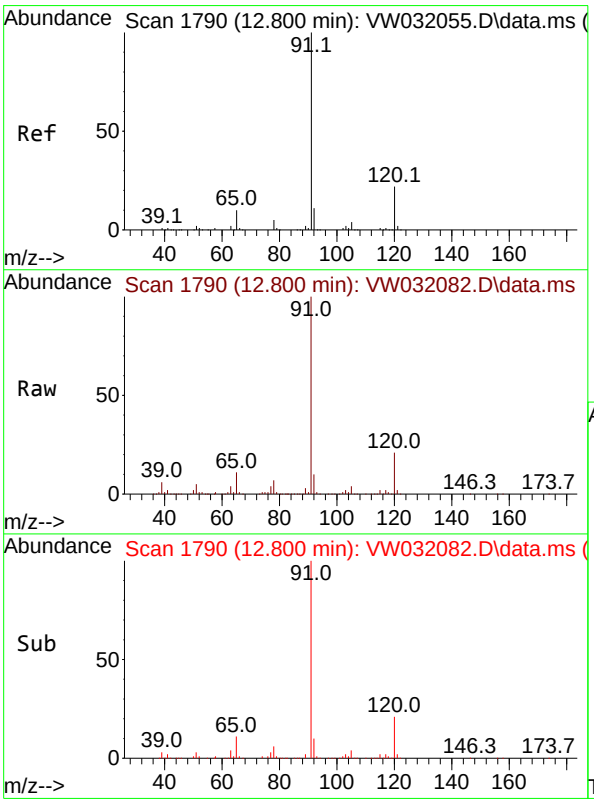
#77
Bromobenzene
Concen: 20.288 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:156 Resp: 58767

Ion	Ratio	Lower	Upper
156	100		
77	193.7	108.7	326.3
158	94.5	48.3	144.9

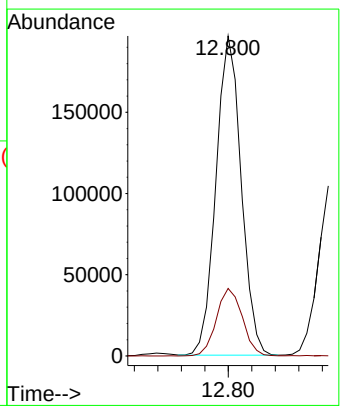


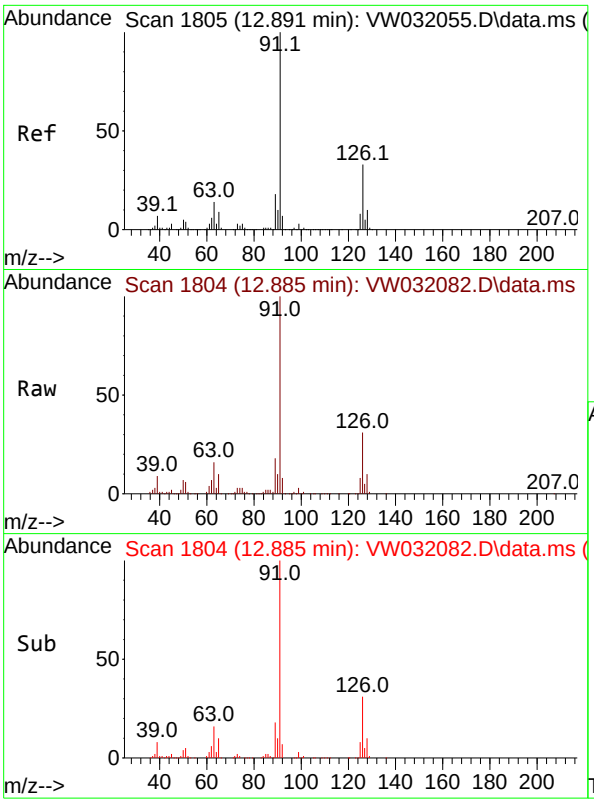


#78
n-propylbenzene
Concen: 19.630 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 293106

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.1	33.3



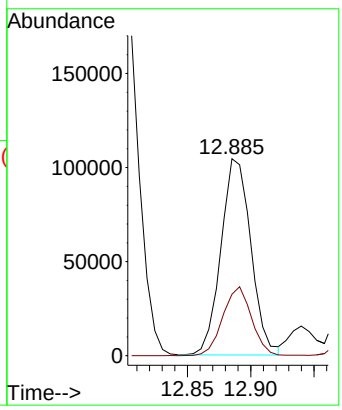


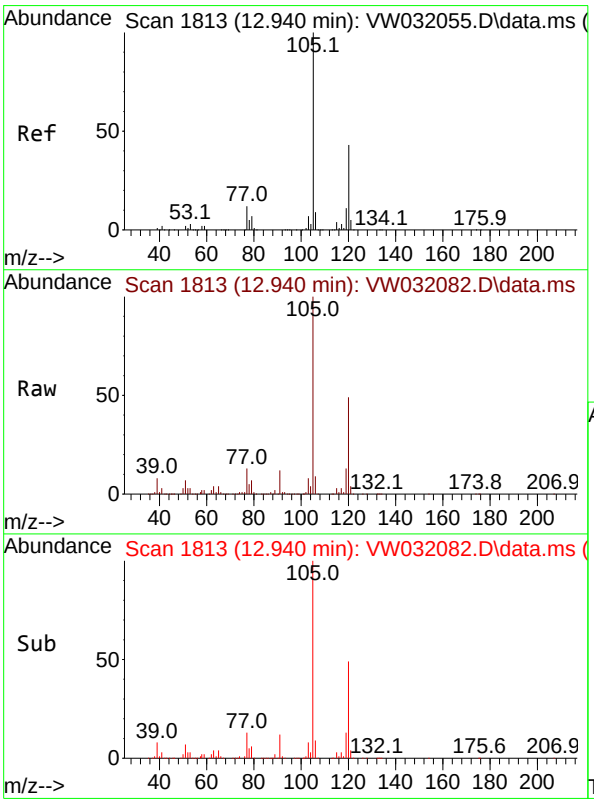
#79
2-Chlorotoluene
Concen: 18.674 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 91 Resp: 172088

Ion	Ratio	Lower	Upper
91	100		
126	33.8	15.9	47.7

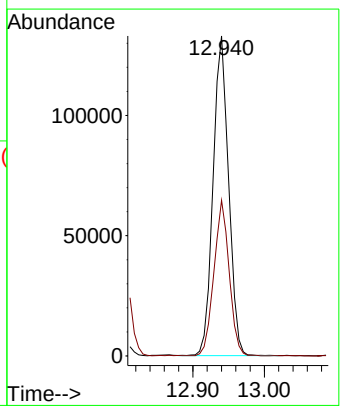


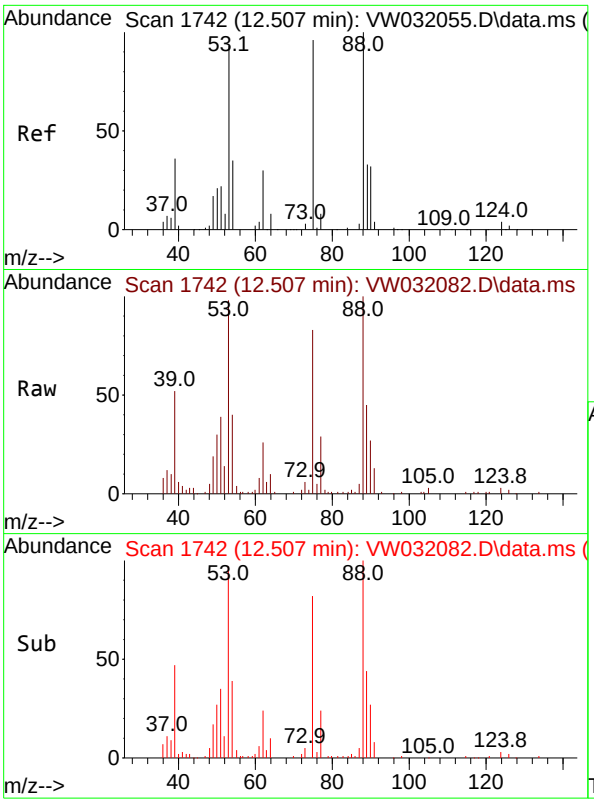


#80
1,3,5-Trimethylbenzene
Concen: 19.419 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:105 Resp: 199943

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.4	70.0



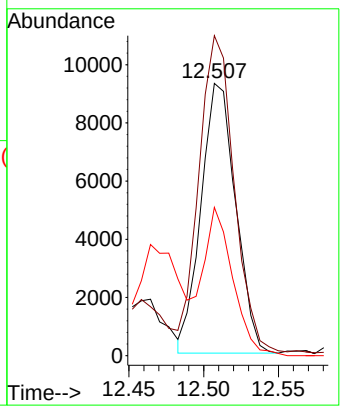


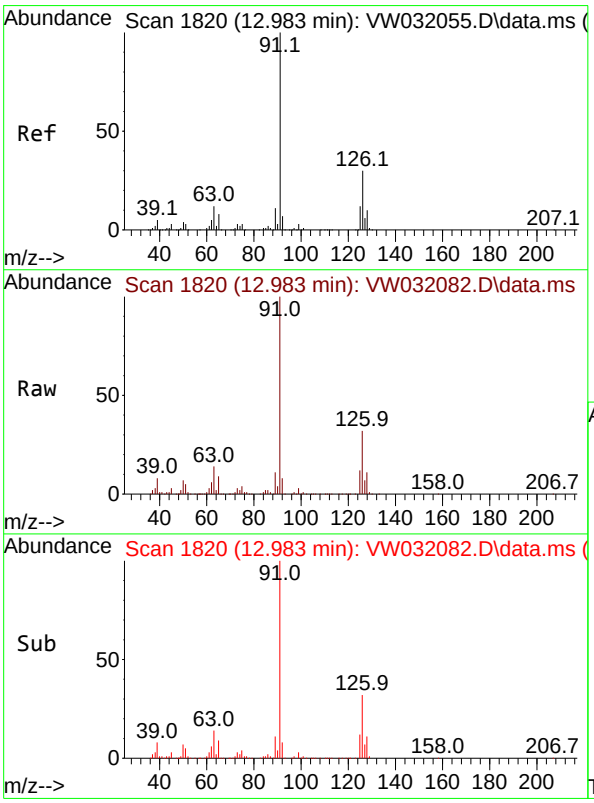
#81
trans-1,4-Dichloro-2-butene
Concen: 16.406 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 75 Resp: 14926

Ion	Ratio	Lower	Upper
75	100		
53	123.4	81.0	121.6#
89	48.6	37.3	55.9

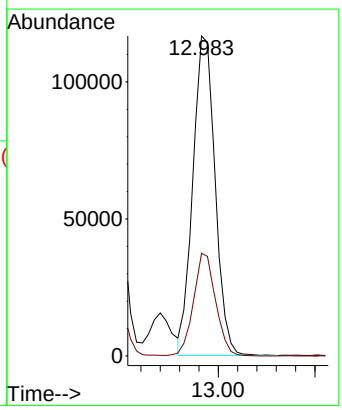


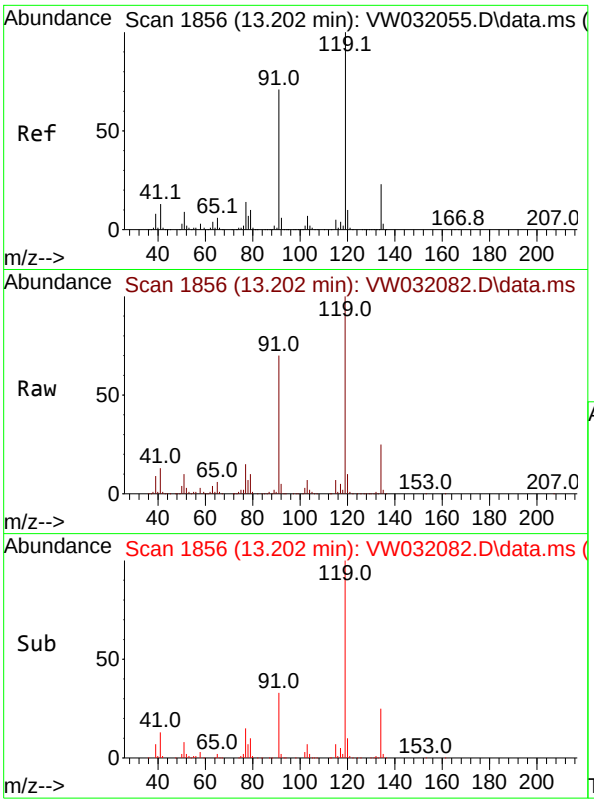


#82
4-Chlorotoluene
Concen: 19.042 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 91 Resp: 186440

Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.5	46.5



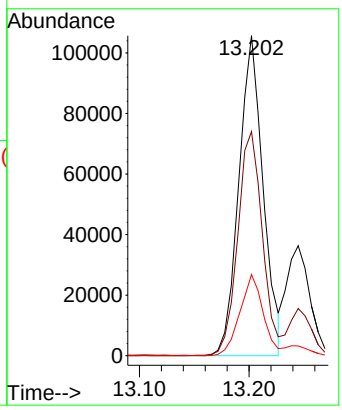


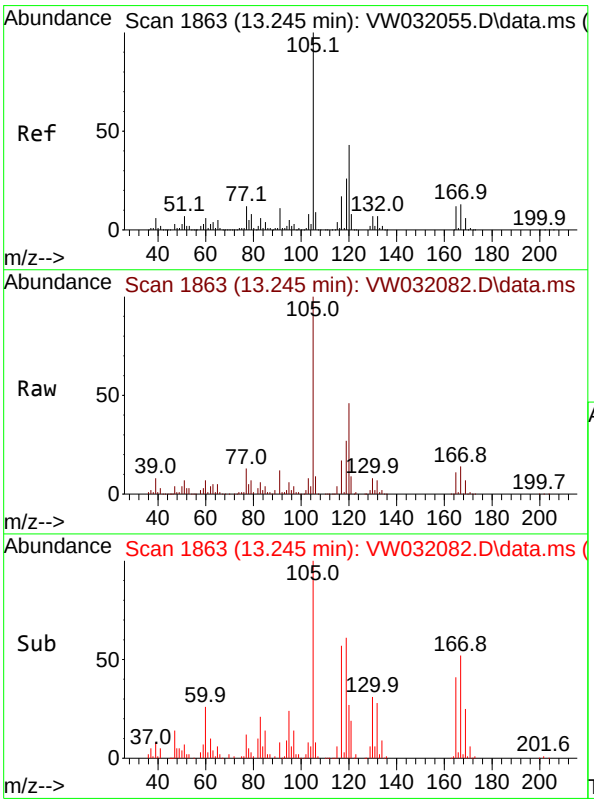
#83
tert-Butylbenzene
Concen: 19.009 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:119 Resp: 162438

Ion	Ratio	Lower	Upper
119	100		
91	70.8	35.3	105.9
134	24.8	12.1	36.3

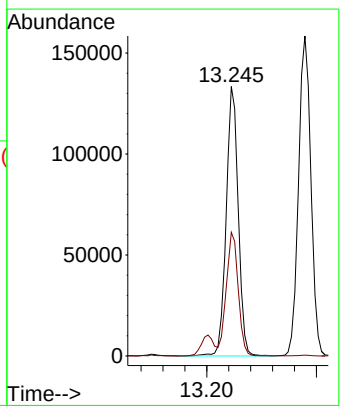


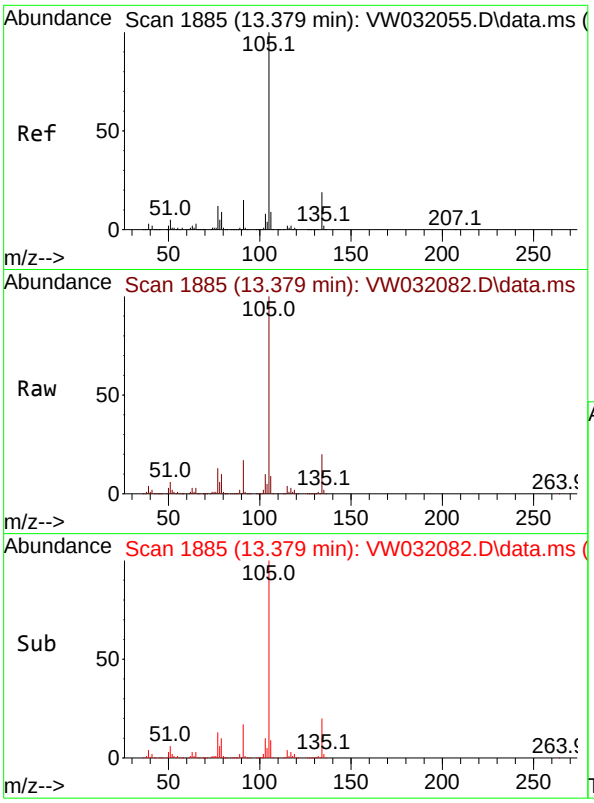


#84
1,2,4-Trimethylbenzene
Concen: 19.477 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:105 Resp: 204141

Ion	Ratio	Lower	Upper
105	100		
120	45.4	21.6	64.8



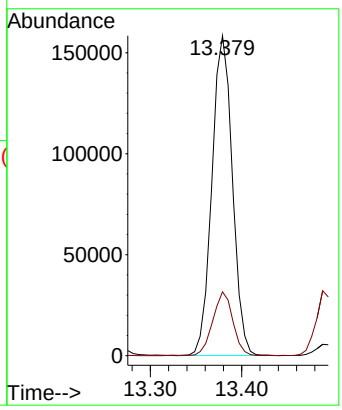


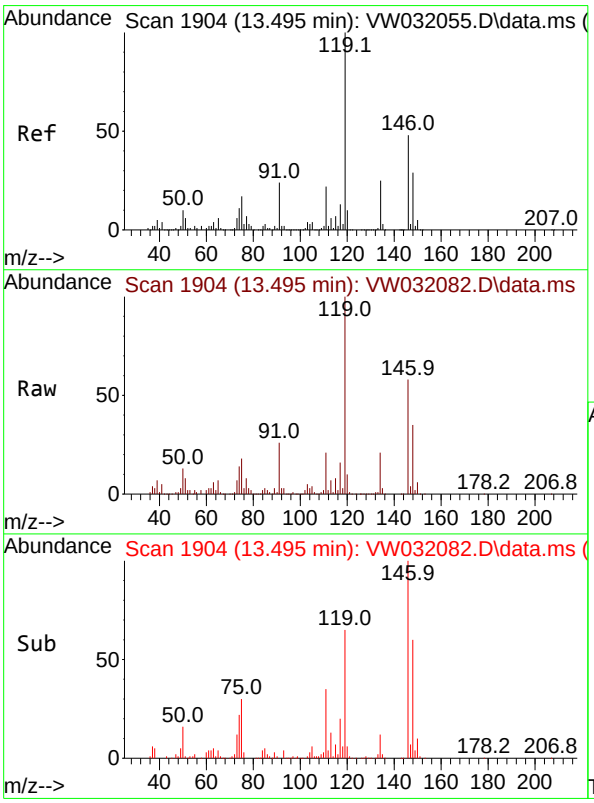
#85
sec-Butylbenzene
Concen: 19.074 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:105 Resp: 246430

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7

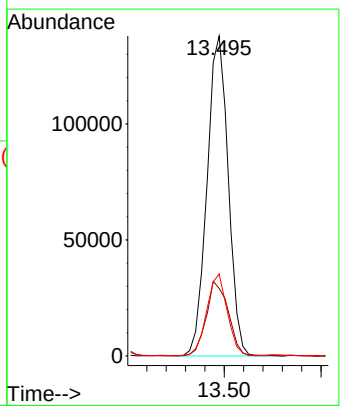


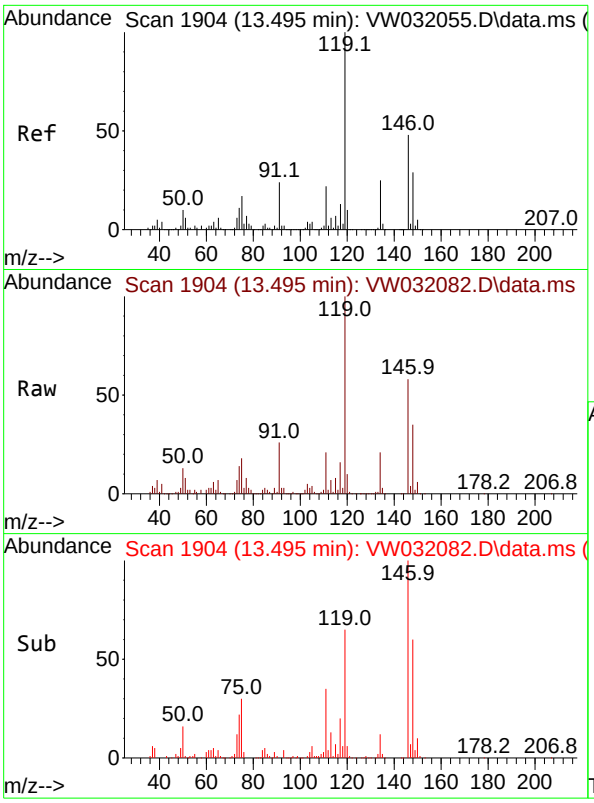


#86
p-Isopropyltoluene
Concen: 19.547 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:119 Resp: 210533

Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.4	37.0
91	24.6	12.1	36.3



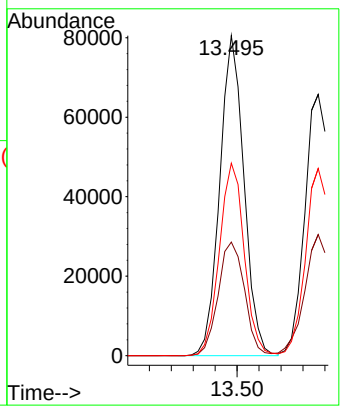


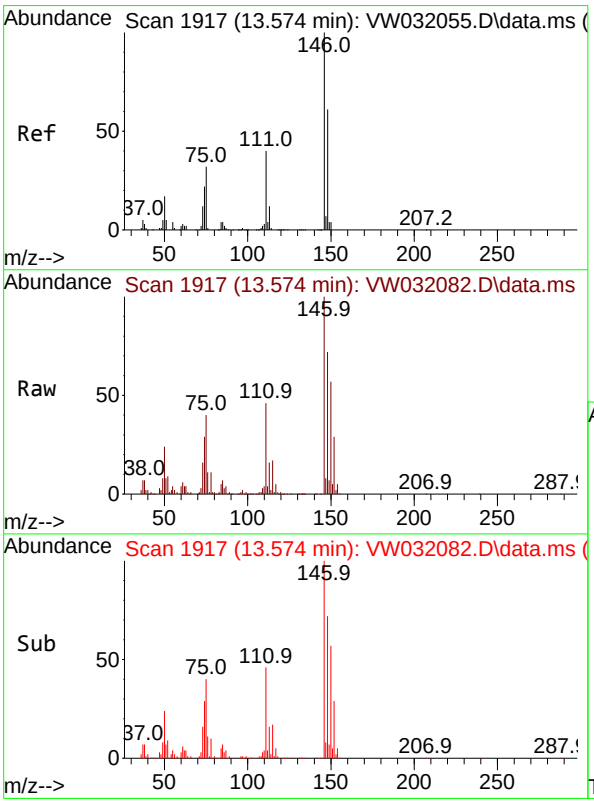
#87
1,3-Dichlorobenzene
Concen: 21.455 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:146 Resp: 123661

Ion	Ratio	Lower	Upper
146	100		
111	38.6	21.2	63.6
148	61.7	30.3	90.8

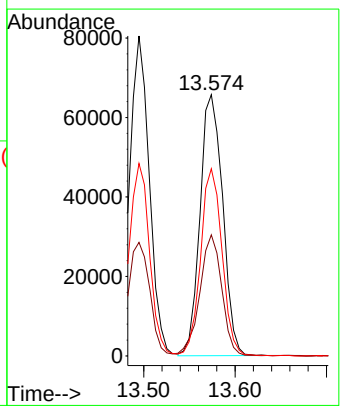


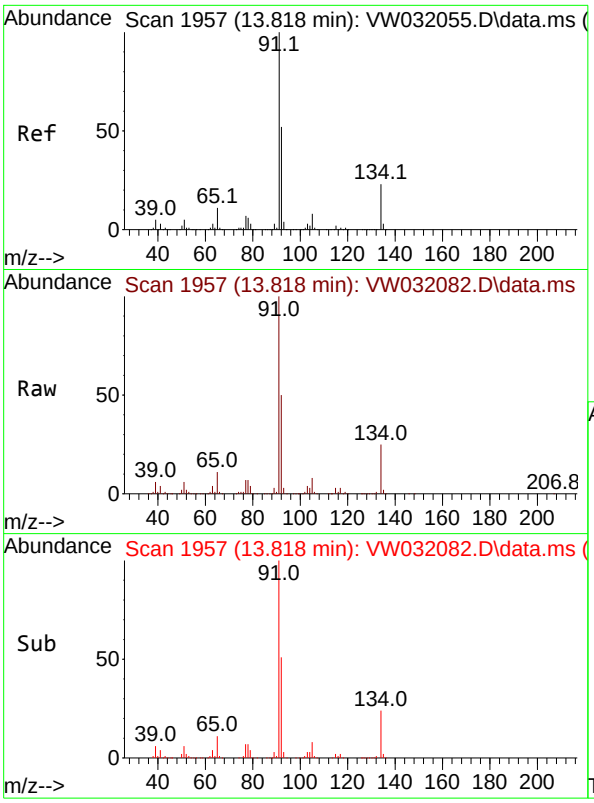


#88
1,4-Dichlorobenzene
Concen: 19.366 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:146 Resp: 112801

Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.6	64.6
148	67.9	32.0	96.2



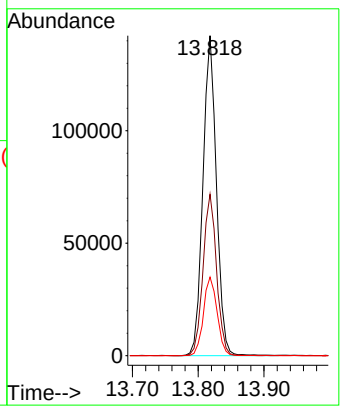


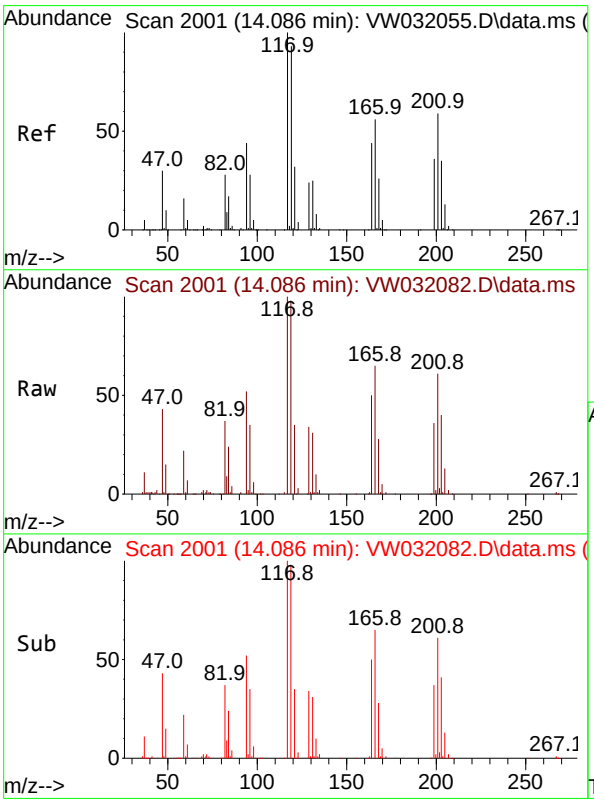
#89
n-Butylbenzene
Concen: 19.407 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion: 91 Resp: 203065

Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.7	80.1
134	24.9	12.0	36.1

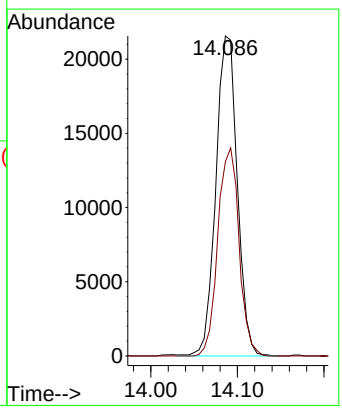


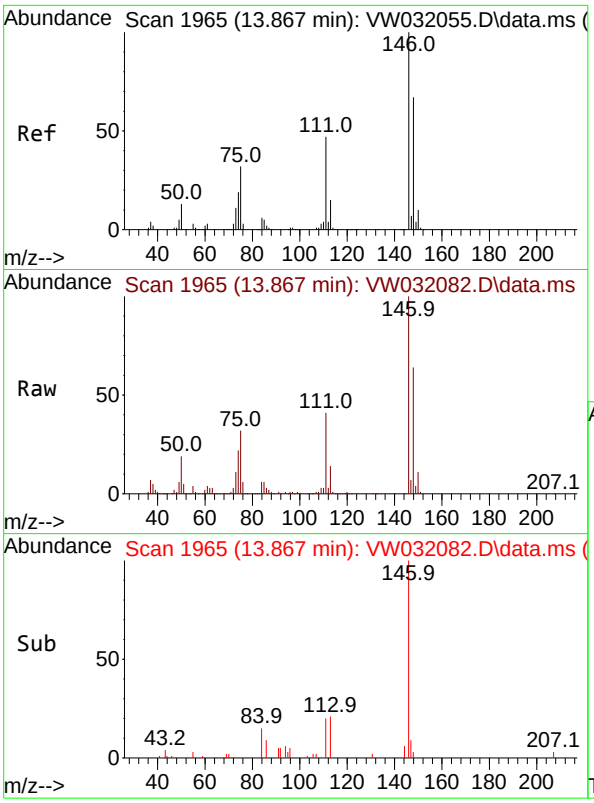


#90
Hexachloroethane
Concen: 18.817 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:117 Resp: 37065

Ion	Ratio	Lower	Upper
117	100		
201	64.3	30.9	92.5



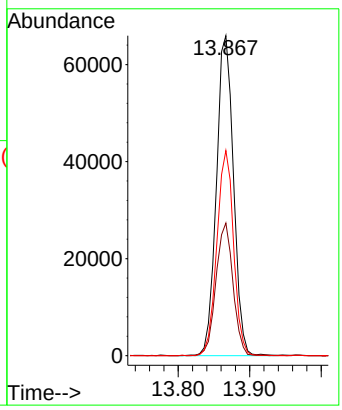


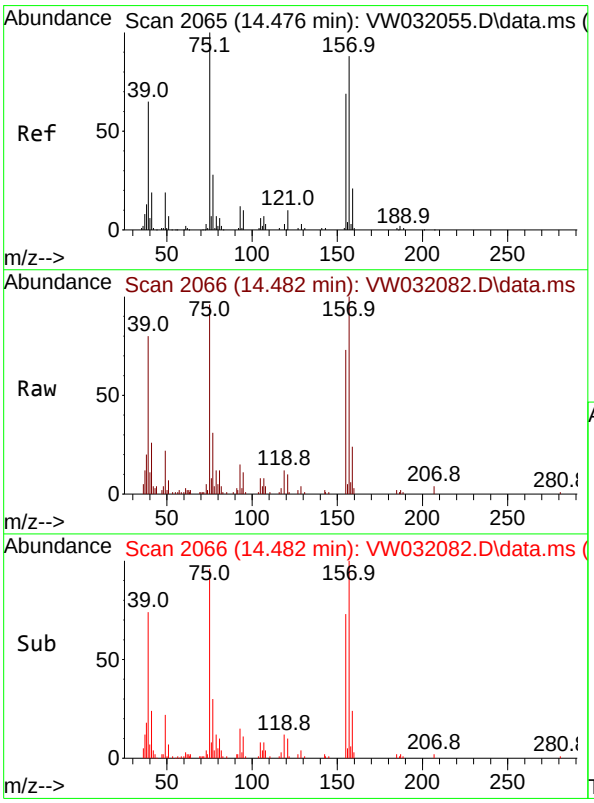
#91
1,2-Dichlorobenzene
Concen: 20.963 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:146 Resp: 109453

Ion	Ratio	Lower	Upper
146	100		
111	41.4	23.1	69.3
148	62.7	32.9	98.6

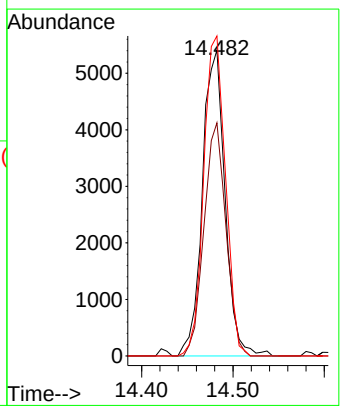


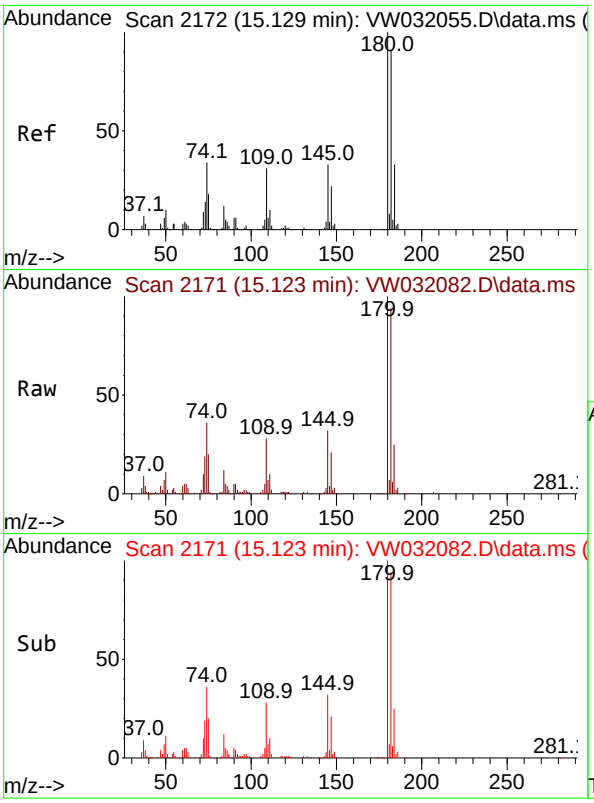


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.149 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion: 75 Resp: 9291

Ion	Ratio	Lower	Upper
75	100		
155	74.0	35.2	105.6
157	100.4	47.5	142.6



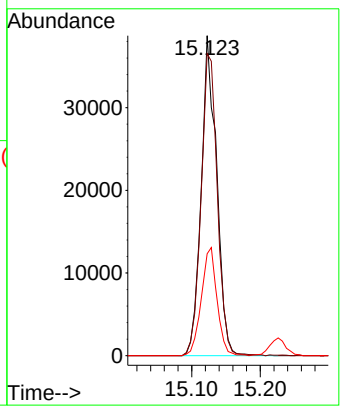


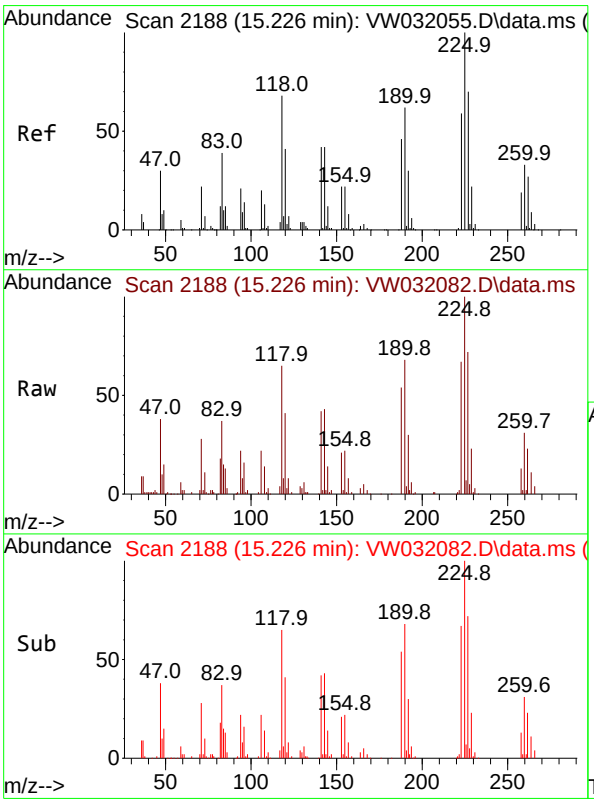
#93
1,2,4-Trichlorobenzene
Concen: 19.423 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:180 Resp: 60665

Ion	Ratio	Lower	Upper
180	100		
182	99.0	49.0	147.0
145	34.4	17.3	51.9

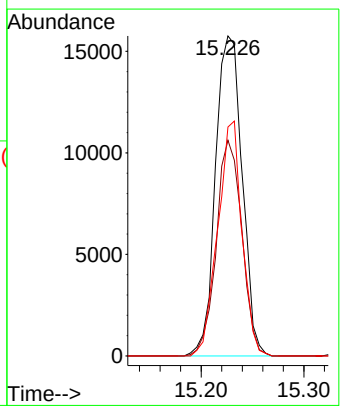


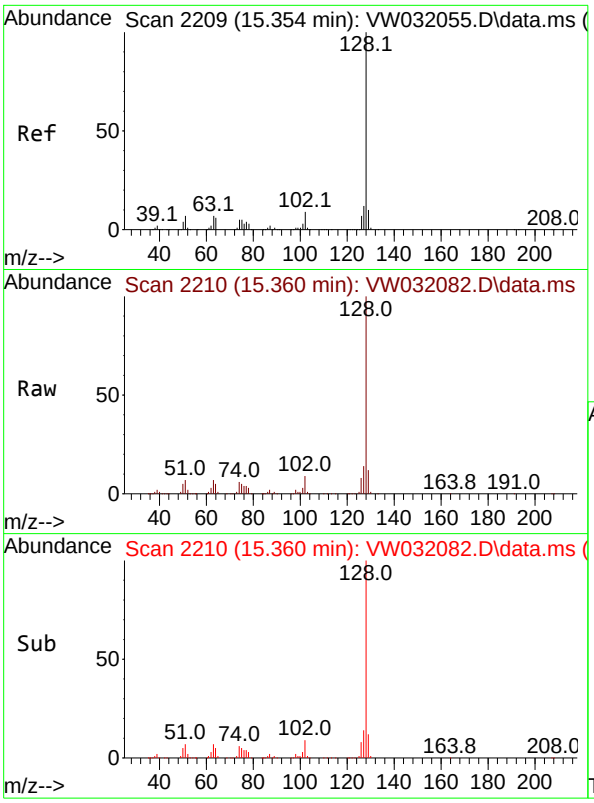


#94
Hexachlorobutadiene
Concen: 20.310 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:225 Resp: 28357

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.8	95.3
227	66.8	33.5	100.5



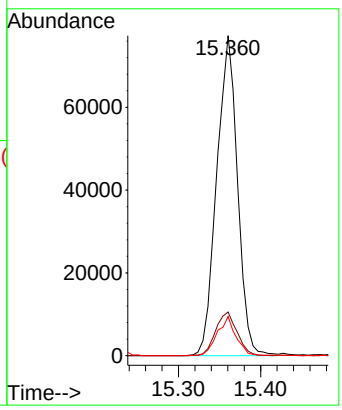


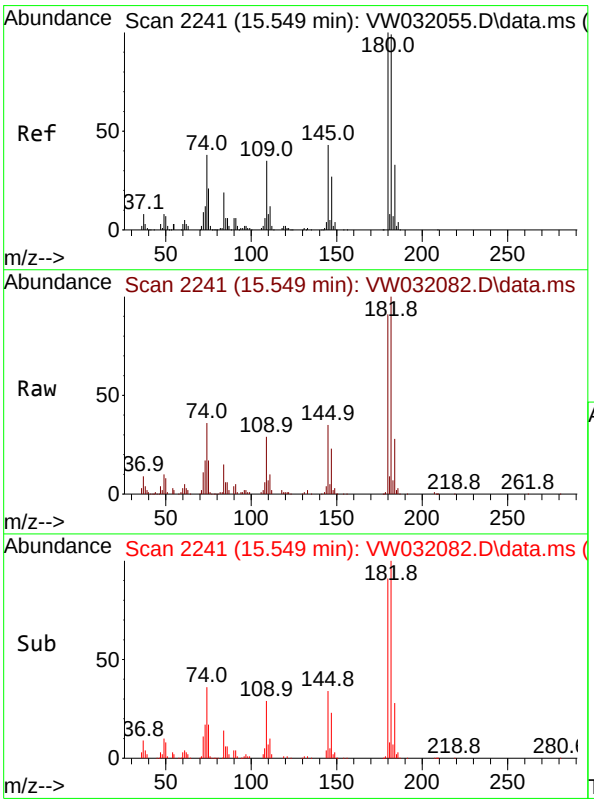
#95
Naphthalene
Concen: 17.805 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBS01

Tgt Ion:128 Resp: 136270

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.5	15.7
129	11.2	8.2	12.4

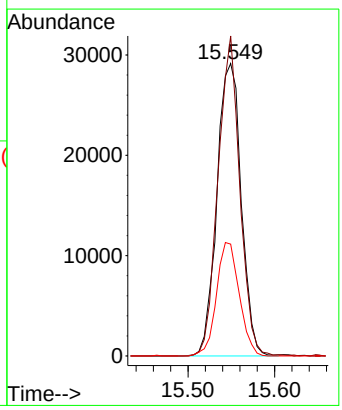




#96
1,2,3-Trichlorobenzene
Concen: 19.997 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032082.D
Acq: 14 Aug 2025 10:27

Tgt Ion:180 Resp: 56830

Ion	Ratio	Lower	Upper
180	100		
182	98.1	46.0	138.0
145	36.4	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	218109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	379951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	343089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	177605	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	147653	46.808	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 93.620%			
35) Dibromofluoromethane	7.898	113	124076	50.548	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 101.100%			
50) Toluene-d8	10.325	98	454977	50.113	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.220%			
62) 4-Bromofluorobenzene	12.617	95	166018	49.621	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	33288	21.339	ug/l	95
3) Chloromethane	2.253	50	37450	17.822	ug/l	98
4) Vinyl Chloride	2.399	62	50061	19.695	ug/l	96
5) Bromomethane	2.814	94	42218	22.140	ug/l	94
6) Chloroethane	2.966	64	34212	20.341	ug/l	100
7) Trichlorofluoromethane	3.301	101	39414	19.357	ug/l	97
8) Diethyl Ether	3.716	74	31376	18.808	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.094	101	53669	22.341	ug/l	98
10) Methyl Iodide	4.307	142	67253	19.745	ug/l	98
11) Tert butyl alcohol	5.216	59	16282	79.711	ug/l	95
12) 1,1-Dichloroethene	4.076	96	55246	20.886	ug/l	94
13) Acrolein	3.929	56	22386	68.782	ug/l	99
14) Allyl chloride	4.698	41	64273	16.695	ug/l	88
15) Acrylonitrile	5.399	53	65441	82.359	ug/l	98
16) Acetone	4.155	43	86139	117.944	ug/l	98
17) Carbon Disulfide	4.423	76	123061	17.333	ug/l	98
18) Methyl Acetate	4.704	43	36534	15.808	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	82841	17.775	ug/l	96
20) Methylene Chloride	4.948	84	58381	17.289	ug/l	97
21) trans-1,2-Dichloroethene	5.454	96	51769	18.442	ug/l	95
22) Diisopropyl ether	6.338	45	141639	17.452	ug/l	92
23) Vinyl Acetate	6.277	43	481360	90.338	ug/l	99
24) 1,1-Dichloroethane	6.240	63	94906	18.303	ug/l	98
25) 2-Butanone	7.191	43	95473	91.978	ug/l	95
26) 2,2-Dichloropropane	7.185	77	49013	18.841	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	61895	18.864	ug/l	94
28) Bromochloromethane	7.526	49	43111	18.270	ug/l	97
29) Tetrahydrofuran	7.551	42	56439	82.447	ug/l	99
30) Chloroform	7.691	83	105761	19.239	ug/l	97
31) Cyclohexane	7.965	56	78359	17.431	ug/l	92
32) 1,1,1-Trichloroethane	7.886	97	77562	19.425	ug/l	98
36) 1,1-Dichloropropene	8.093	75	69861	20.189	ug/l	99
37) Ethyl Acetate	7.276	43	39212	19.240	ug/l	97
38) Carbon Tetrachloride	8.075	117	71526	21.419	ug/l	97
39) Methylcyclohexane	9.343	83	81832	19.402	ug/l	98
40) Benzene	8.337	78	214937	19.983	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	21151	18.301	ug/l	#	93
42) 1,2-Dichloroethane	8.410	62	70737	20.552	ug/l		100
43) Isopropyl Acetate	8.435	43	69002	18.403	ug/l		99
44) Trichloroethene	9.099	130	53394	20.845	ug/l		99
45) 1,2-Dichloropropane	9.374	63	50638	19.487	ug/l		100
46) Dibromomethane	9.465	93	34565	20.610	ug/l		99
47) Bromodichloromethane	9.648	83	79691	20.621	ug/l		100
48) Methyl methacrylate	9.441	41	32521	17.966	ug/l	#	92
49) 1,4-Dioxane	9.459	88	8402	387.463	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.215	43	205106	96.913	ug/l		95
52) Toluene	10.386	92	137378	20.277	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	69323	19.147	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	79480	19.350	ug/l		92
55) 1,1,2-Trichloroethane	10.788	97	44575	20.001	ug/l		93
56) Ethyl methacrylate	10.648	69	53600	17.973	ug/l	#	92
57) 1,3-Dichloropropane	10.934	76	73958	19.038	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	147647	89.504	ug/l		99
59) 2-Hexanone	10.971	43	142726	97.375	ug/l		96
60) Dibromochloromethane	11.129	129	53091	20.855	ug/l		99
61) 1,2-Dibromoethane	11.233	107	43311	19.998	ug/l		98
64) Tetrachloroethene	10.861	164	43709	22.056	ug/l		97
65) Chlorobenzene	11.654	112	155926	20.880	ug/l		92
66) 1,1,1,2-Tetrachloroethane	11.727	131	49815	21.380	ug/l		97
67) Ethyl Benzene	11.727	91	256167	20.251	ug/l		93
68) m/p-Xylenes	11.837	106	207846	42.582	ug/l		97
69) o-Xylene	12.160	106	95460	21.160	ug/l		93
70) Styrene	12.178	104	163976	20.463	ug/l		99
71) Bromoform	12.349	173	28712	21.543	ug/l	#	100
73) Isopropylbenzene	12.458	105	238599	19.223	ug/l		99
74) N-amyl acetate	12.269	43	63466	17.822	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.714	83	55872	18.959	ug/l		98
76) 1,2,3-Trichloropropane	12.763	75	67951	28.190	ug/l		57
77) Bromobenzene	12.745	156	60209	20.310	ug/l		89
78) n-propylbenzene	12.800	91	302042	19.766	ug/l		99
79) 2-Chlorotoluene	12.885	91	177356	18.805	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	205070	19.461	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	14854	15.953	ug/l		88
82) 4-Chlorotoluene	12.983	91	187599	18.722	ug/l		96
83) tert-Butylbenzene	13.202	119	170175	19.459	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	212657	19.825	ug/l		99
85) sec-Butylbenzene	13.379	105	258452	19.547	ug/l		98
86) p-Isopropyltoluene	13.495	119	220215	19.978	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	125068	21.202	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	119783	20.094	ug/l		99
89) n-Butylbenzene	13.818	91	207148	19.344	ug/l		99
90) Hexachloroethane	14.086	117	39591	19.640	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	108294	20.266	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	9069	17.310	ug/l		94
93) 1,2,4-Trichlorobenzene	15.129	180	66171	20.701	ug/l		94
94) Hexachlorobutadiene	15.226	225	30219	21.148	ug/l		96
95) Naphthalene	15.360	128	146617	18.719	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	59840	20.574	ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

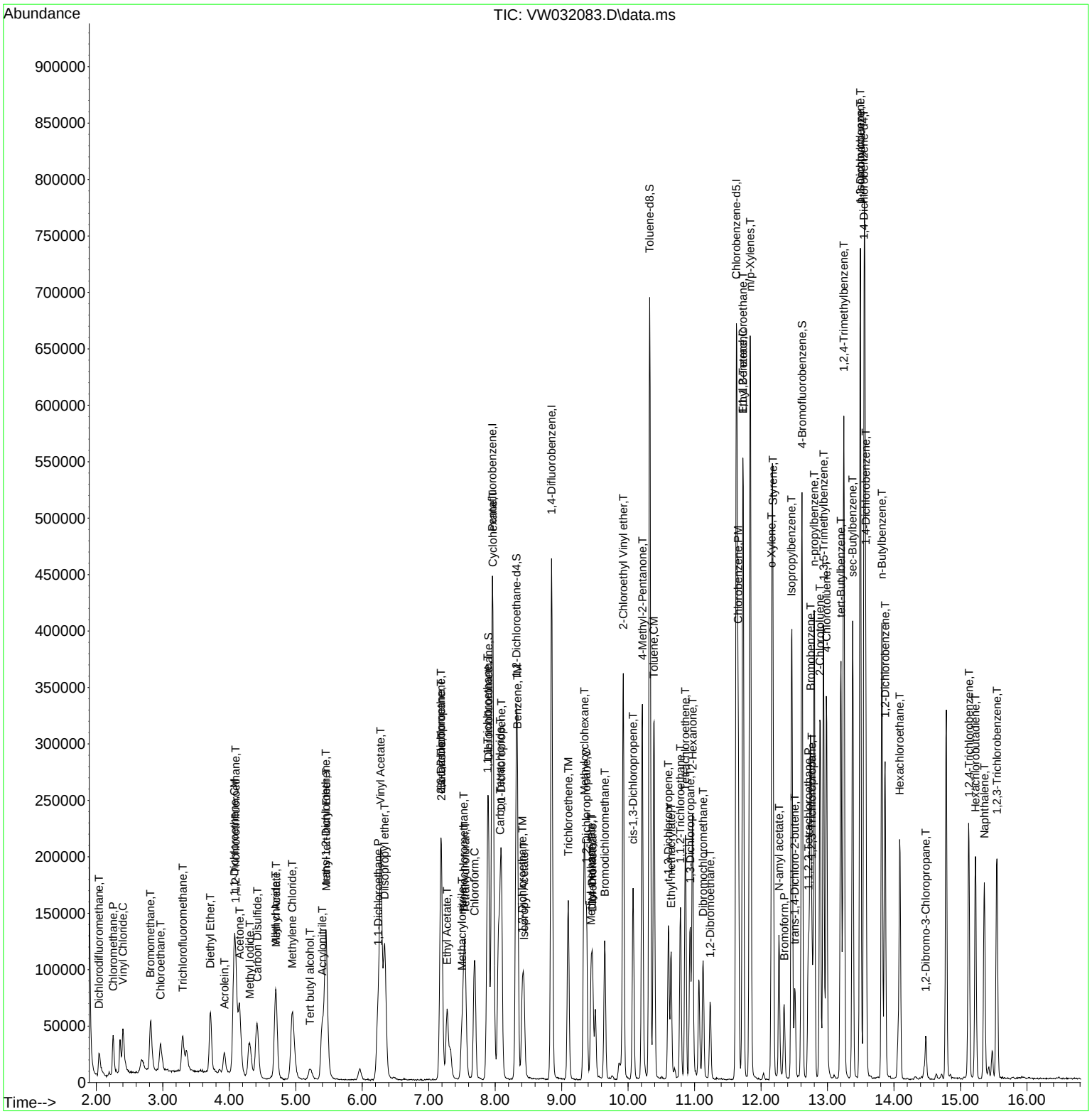
(#) = qualifier out of range (m) = manual integration (+) = signals summed

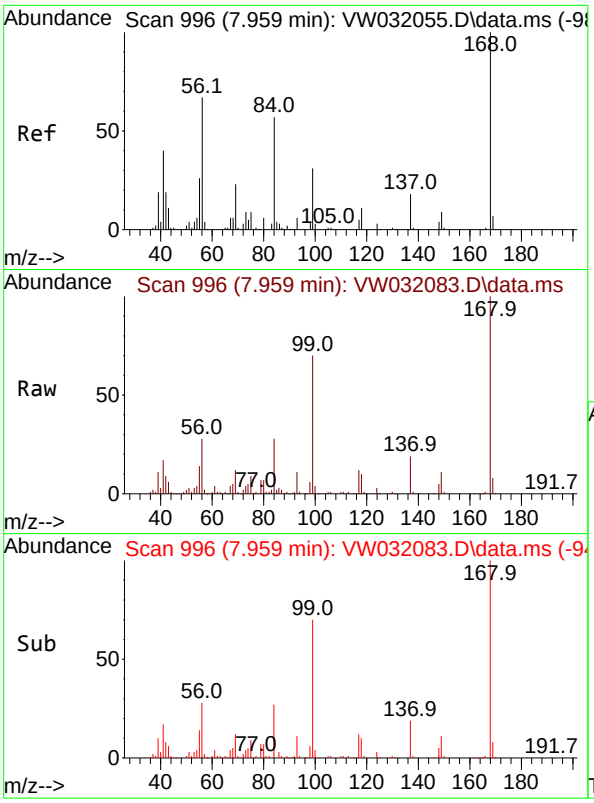
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032083.D
Acq On : 14 Aug 2025 10:58
Operator : SY/MD
Sample : VW0814SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Quant Time: Aug 18 03:48:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



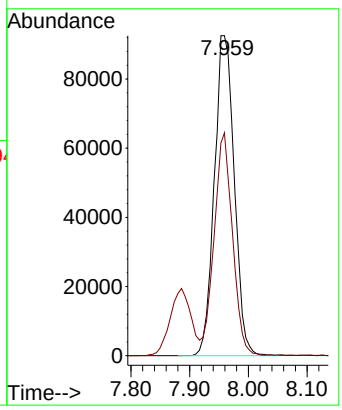


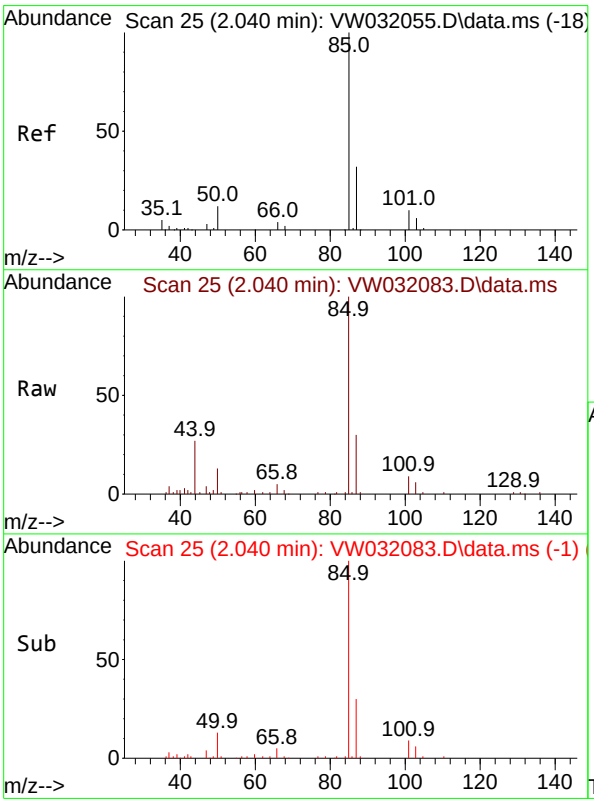
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:168 Resp: 218109

Ion	Ratio	Lower	Upper
168	100		
99	69.4	56.0	84.0

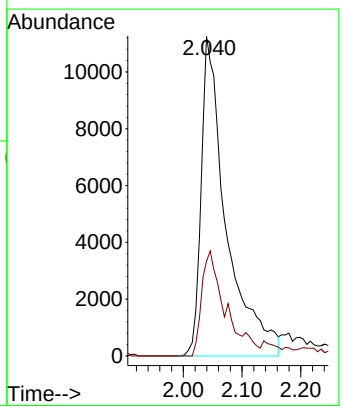


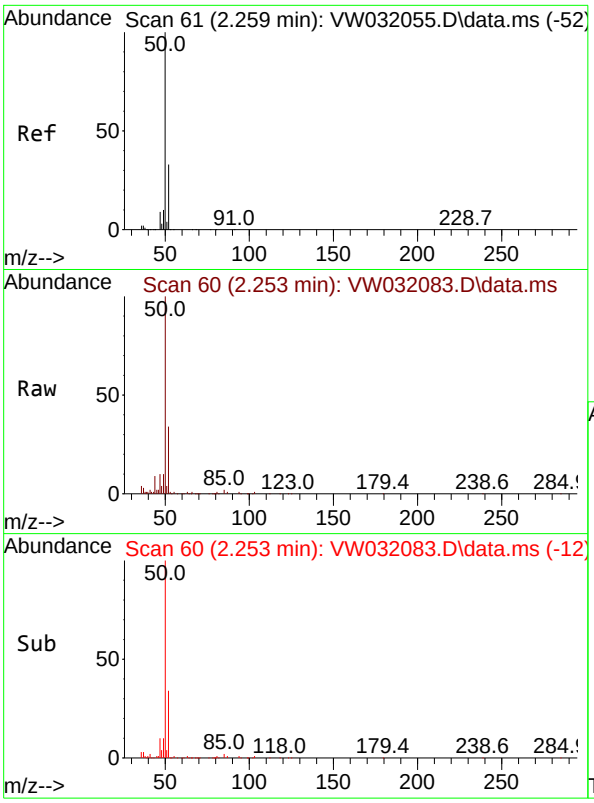


#2
Dichlorodifluoromethane
Concen: 21.339 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 85 Resp: 33288

Ion	Ratio	Lower	Upper
85	100		
87	29.6	16.2	48.6



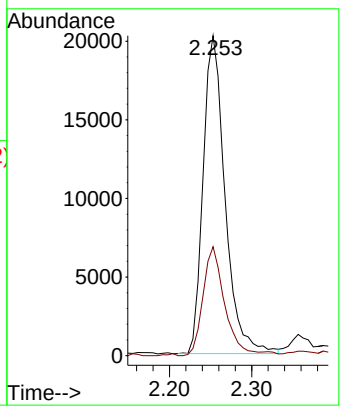


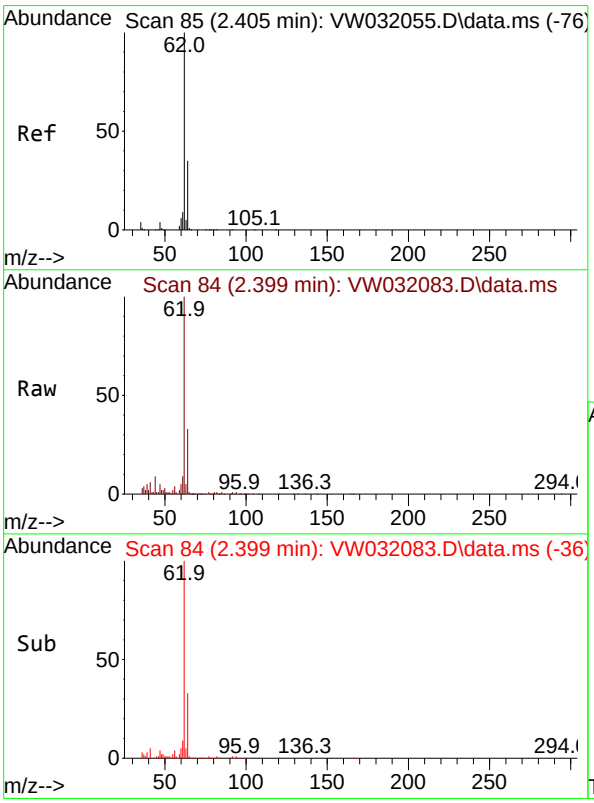
#3
Chloromethane
Concen: 17.822 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 50 Resp: 37450

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	39.8

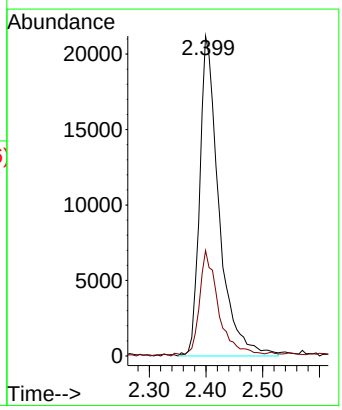


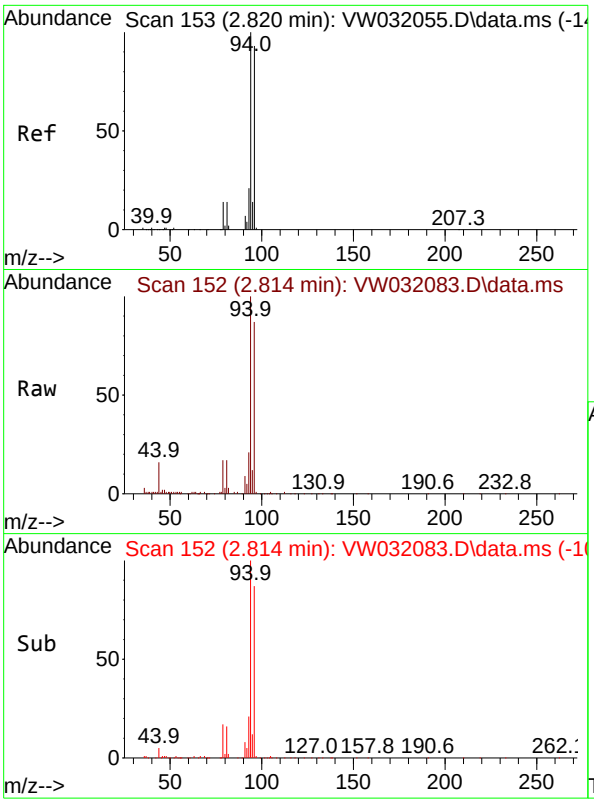


#4
Vinyl Chloride
Concen: 19.695 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 62 Resp: 50061

Ion	Ratio	Lower	Upper
62	100		
64	32.3	27.8	41.6



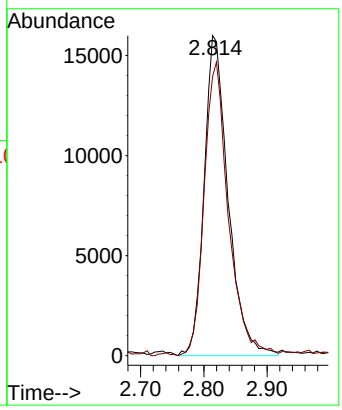


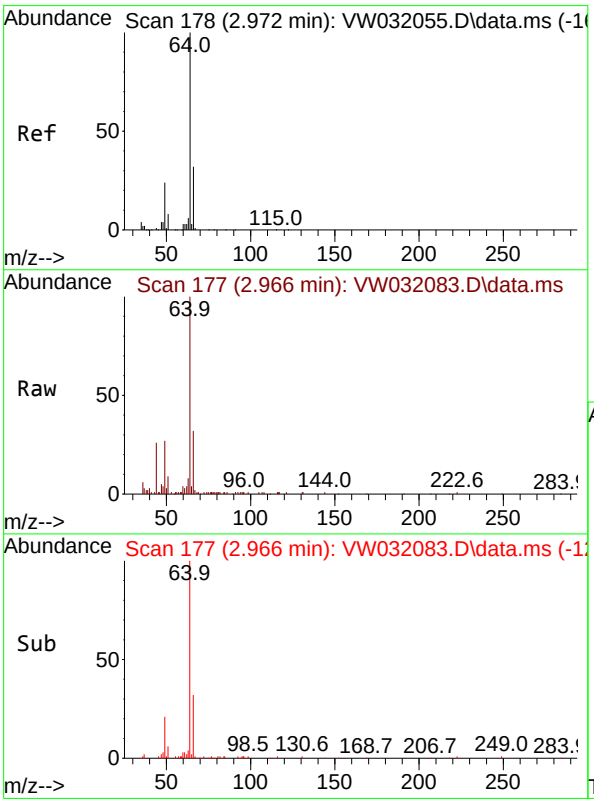
#5
Bromomethane
Concen: 22.140 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 94 Resp: 42218

Ion	Ratio	Lower	Upper
94	100		
96	87.3	74.7	112.1

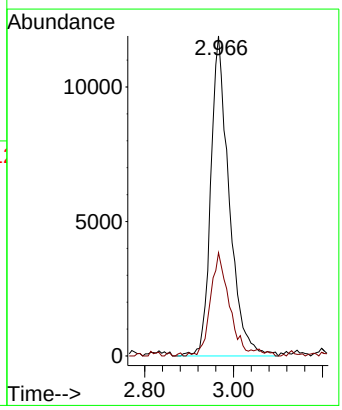


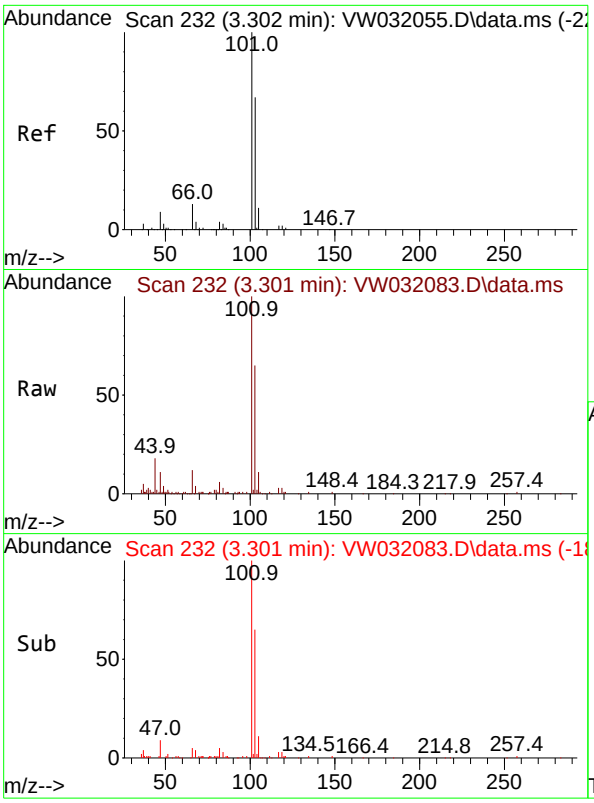


#6
Chloroethane
Concen: 20.341 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 64 Resp: 34212

Ion	Ratio	Lower	Upper
64	100		
66	32.2	26.0	39.0



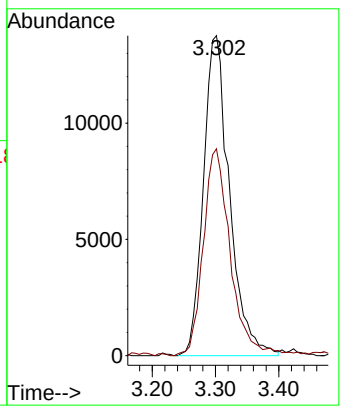


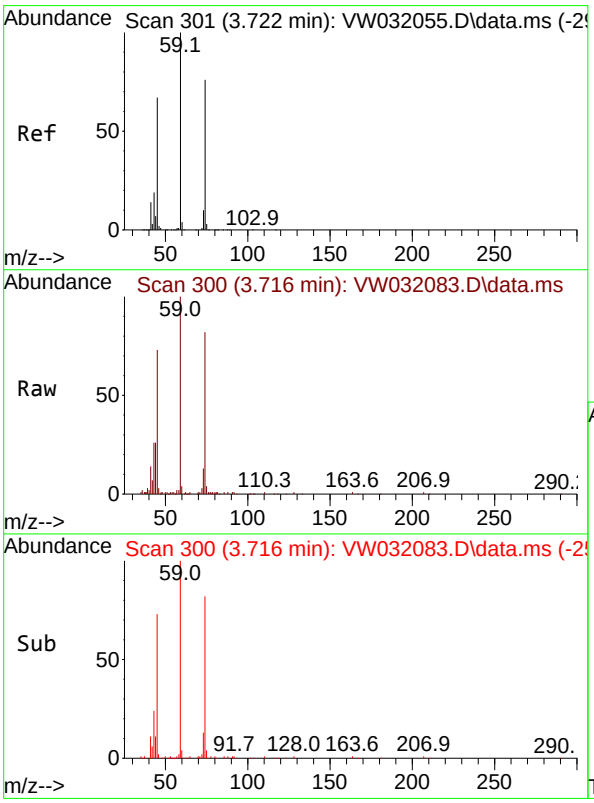
#7
Trichlorofluoromethane
Concen: 19.357 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:101 Resp: 39414

Ion	Ratio	Lower	Upper
101	100		
103	64.0	53.4	80.0

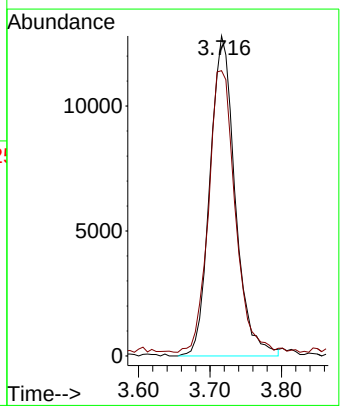


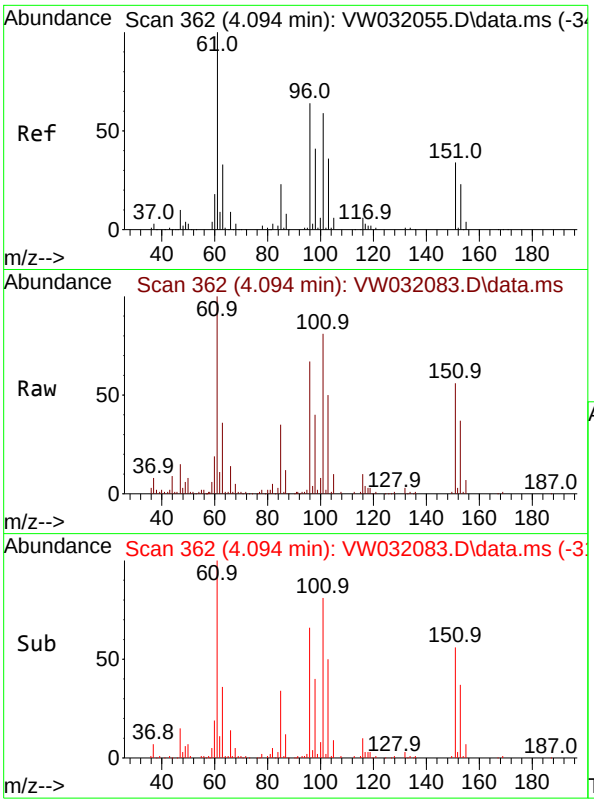


#8
Diethyl Ether
Concen: 18.808 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 74 Resp: 31376

Ion	Ratio	Lower	Upper
74	100		
45	93.2	45.4	136.2



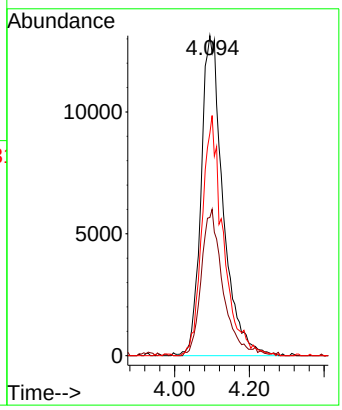


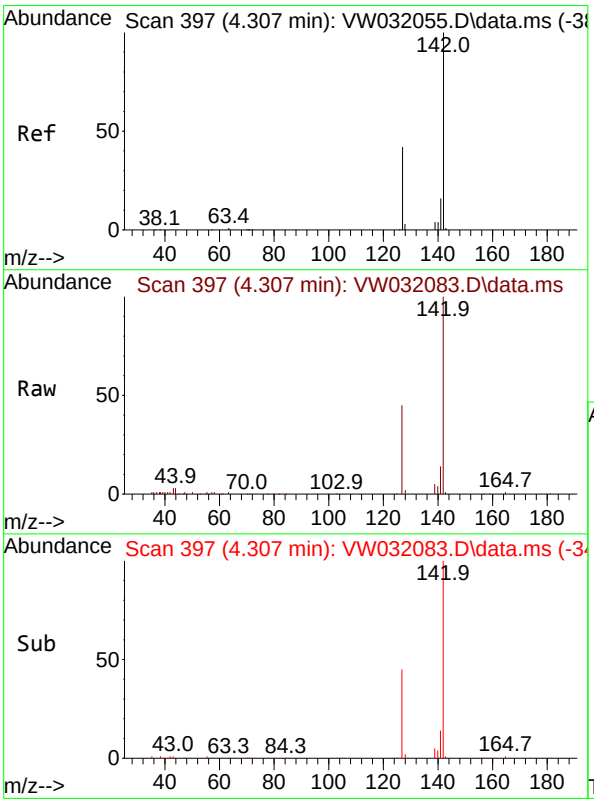
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.341 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:101 Resp: 53669

Ion	Ratio	Lower	Upper
101	100		
85	44.5	34.9	52.3
151	72.8	56.2	84.4

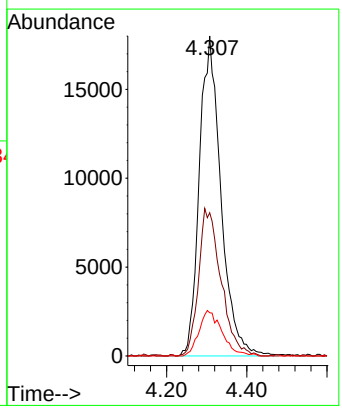


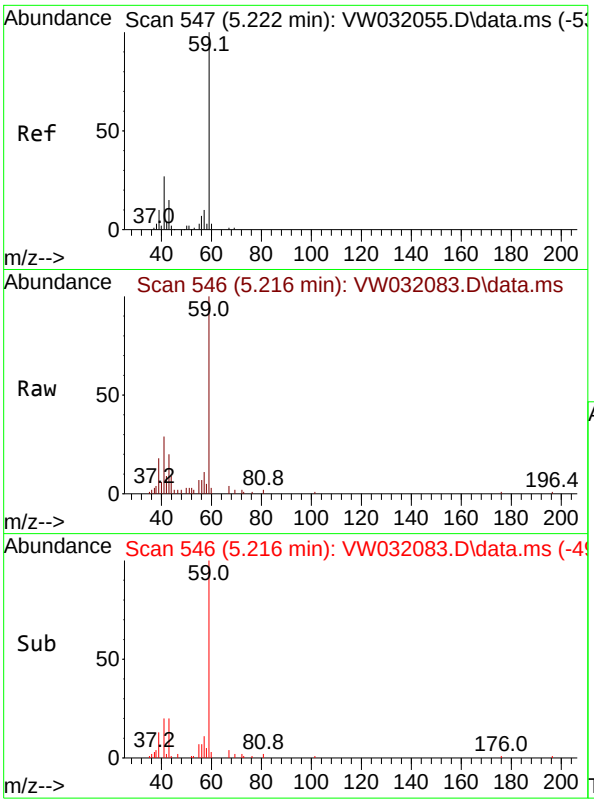


#10
Methyl Iodide
Concen: 19.745 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:142 Resp: 67253

Ion	Ratio	Lower	Upper
142	100		
127	47.8	36.6	55.0
141	15.1	12.1	18.1



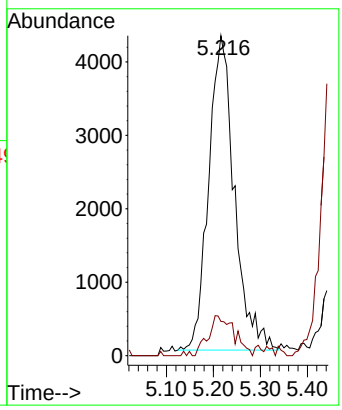


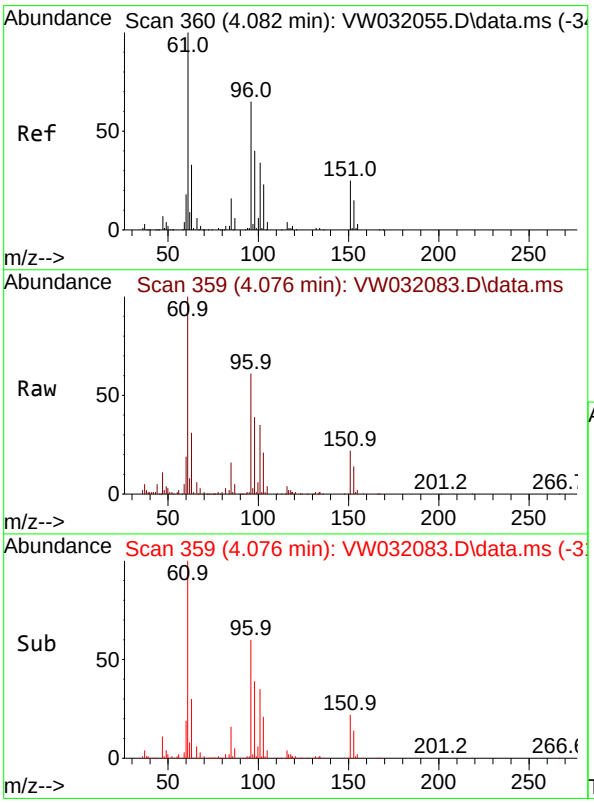
#11
Tert butyl alcohol
Concen: 79.711 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 59 Resp: 16282

Ion	Ratio	Lower	Upper
59	100		
57	12.8	8.7	13.1

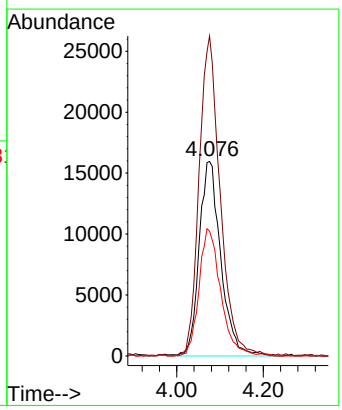


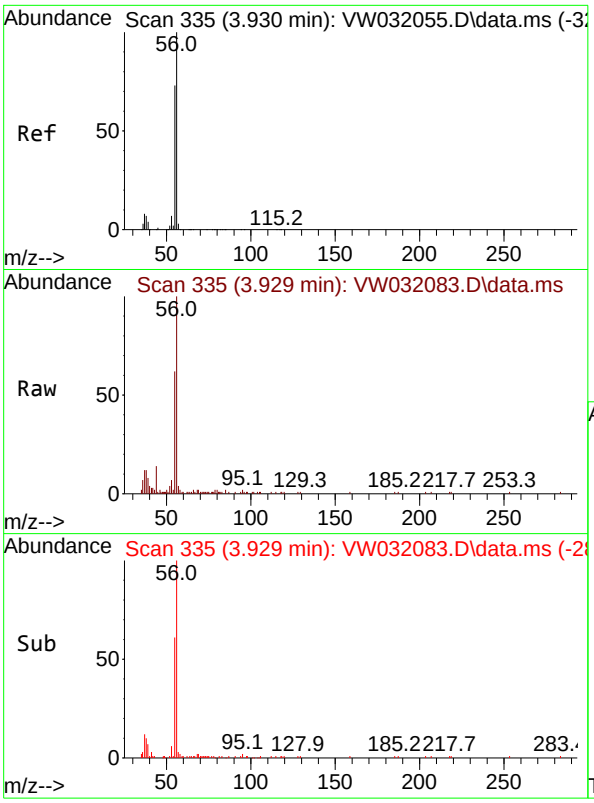


#12
1,1-Dichloroethene
Concen: 20.886 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 96 Resp: 55246

Ion	Ratio	Lower	Upper
96	100		
61	163.8	123.4	185.2
98	64.1	49.5	74.3



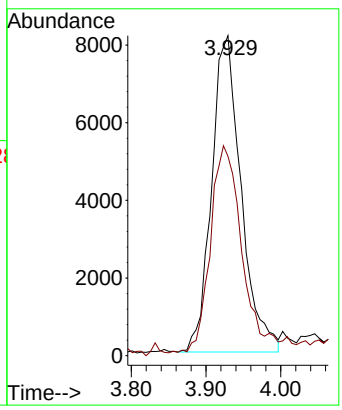


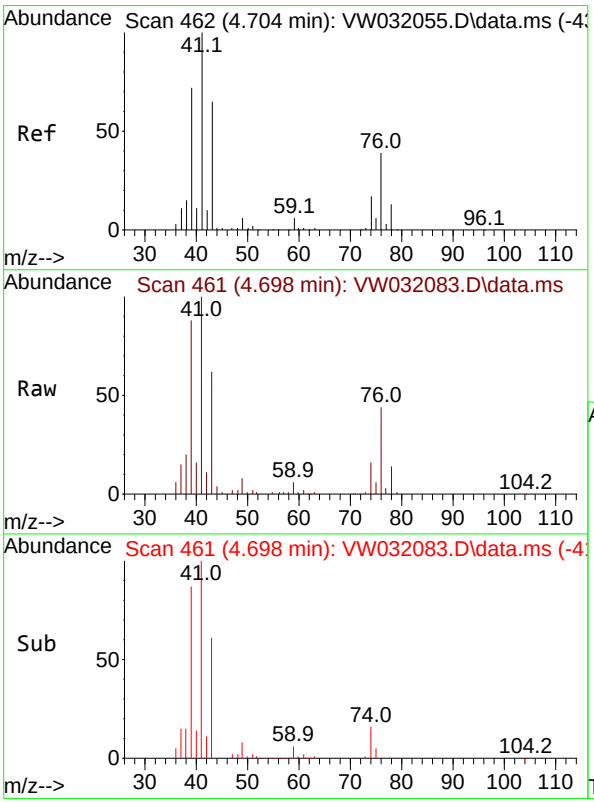
#13
Acrolein
Concen: 68.782 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 56 Resp: 22386

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.4	83.2

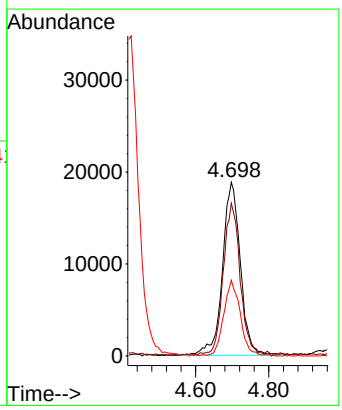


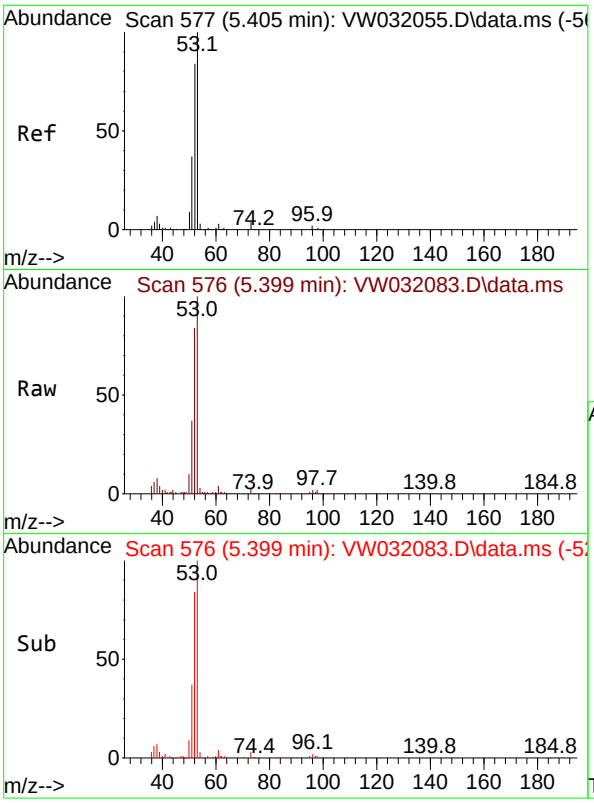


#14
Allyl chloride
Concen: 16.695 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 41 Resp: 64273

Ion	Ratio	Lower	Upper
41	100		
39	81.2	54.5	81.7
76	39.4	29.3	43.9



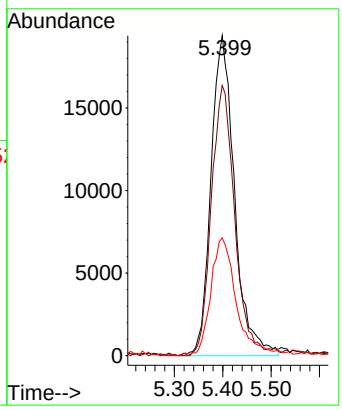


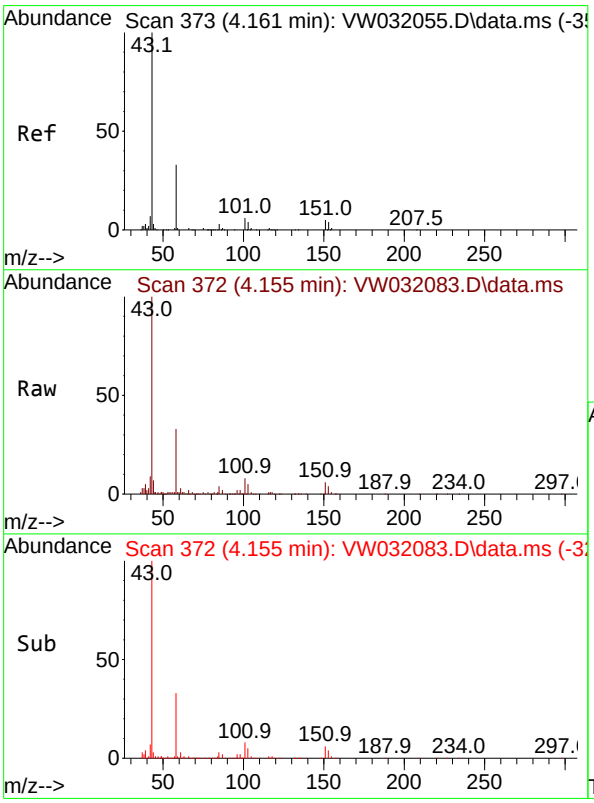
#15
Acrylonitrile
Concen: 82.359 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 53 Resp: 65441

Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.1	99.1
51	38.8	29.2	43.8

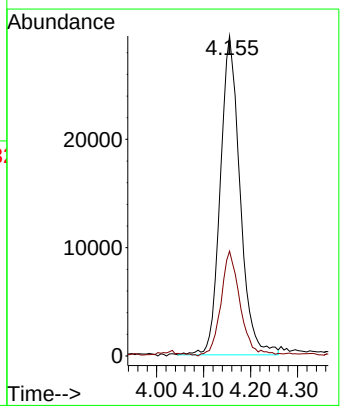


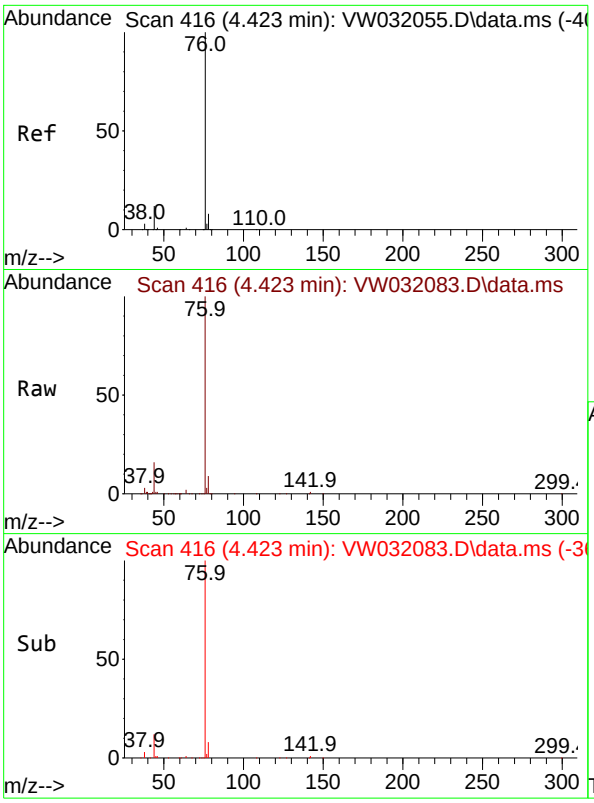


#16
Acetone
Concen: 117.944 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 86139

Ion	Ratio	Lower	Upper
43	100		
58	32.0	26.6	39.8



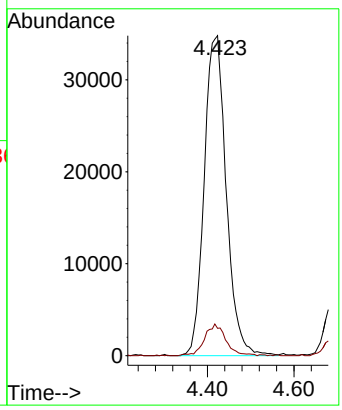


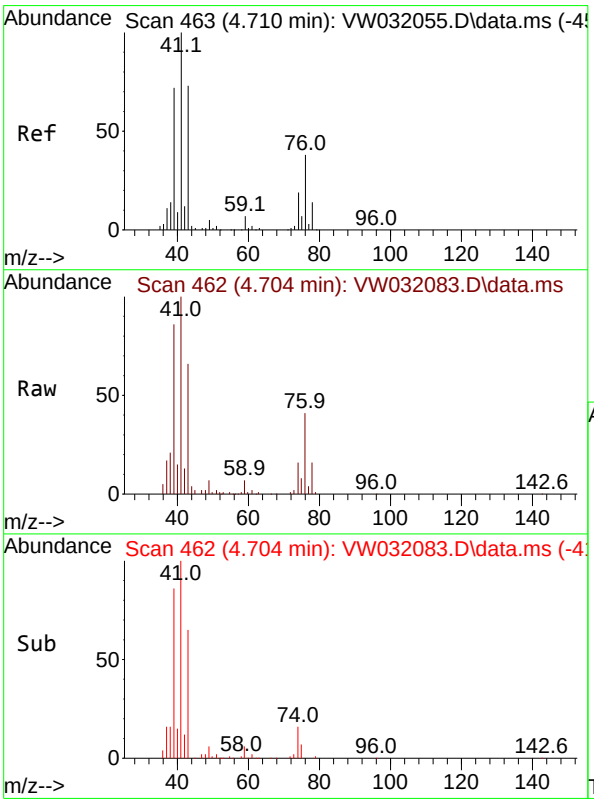
#17
Carbon Disulfide
Concen: 17.333 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 76 Resp: 123061

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.4	9.6

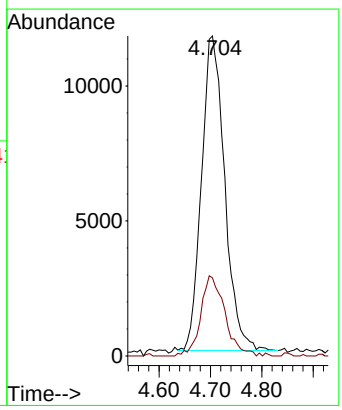


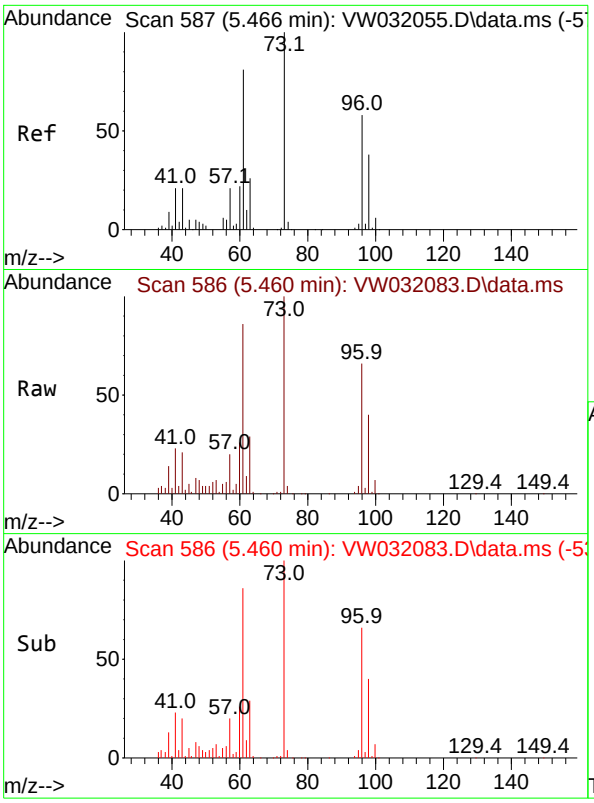


#18
Methyl Acetate
Concen: 15.808 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 36534

Ion	Ratio	Lower	Upper
43	100		
74	26.5	20.6	31.0



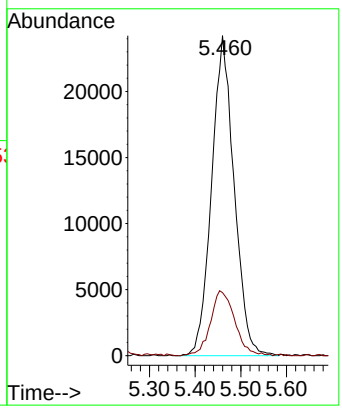


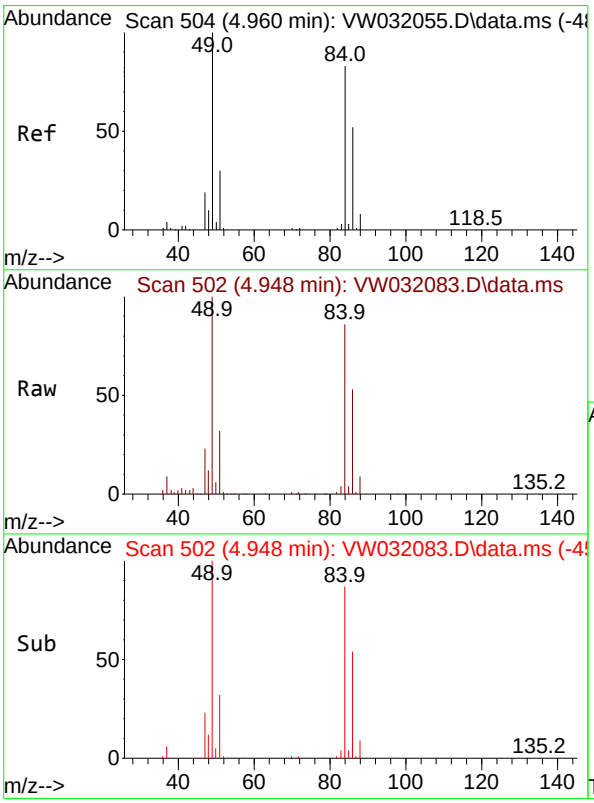
#19
Methyl tert-butyl Ether
Concen: 17.775 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 73 Resp: 82841

Ion	Ratio	Lower	Upper
73	100		
57	19.7	17.2	25.8

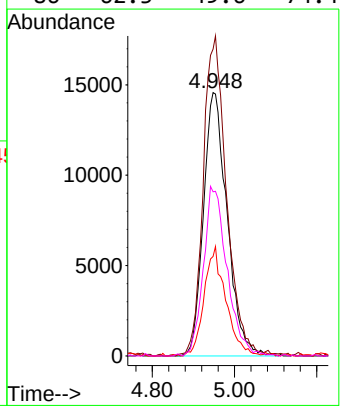


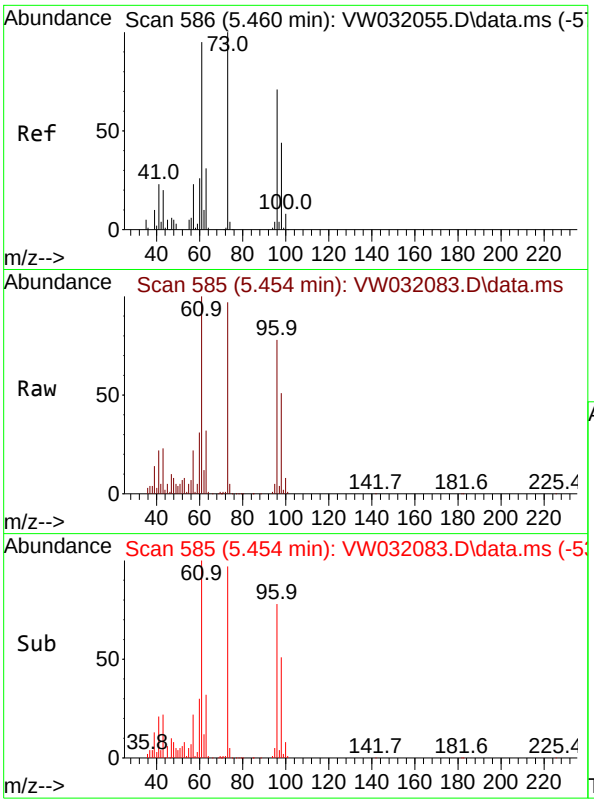


#20
Methylene Chloride
Concen: 17.289 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 84 Resp: 58381

Ion	Ratio	Lower	Upper
84	100		
49	116.0	95.9	143.9
51	37.4	28.6	43.0
86	62.3	49.6	74.4



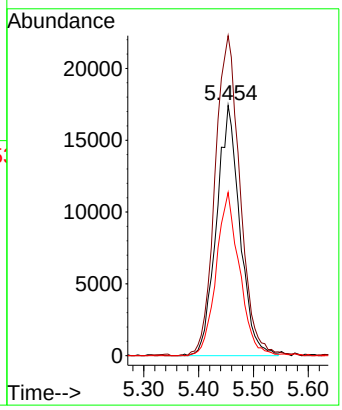


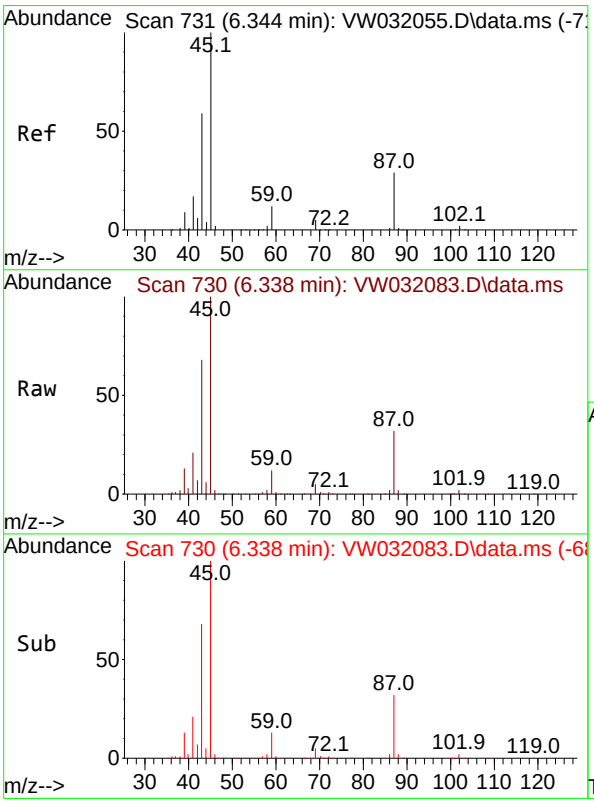
#21
trans-1,2-Dichloroethene
Concen: 18.442 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 96 Resp: 51769

Ion	Ratio	Lower	Upper
96	100		
61	127.9	106.8	160.2
98	65.2	49.6	74.4

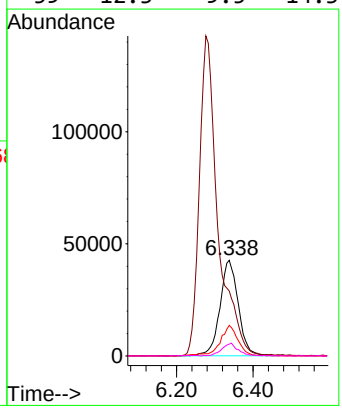


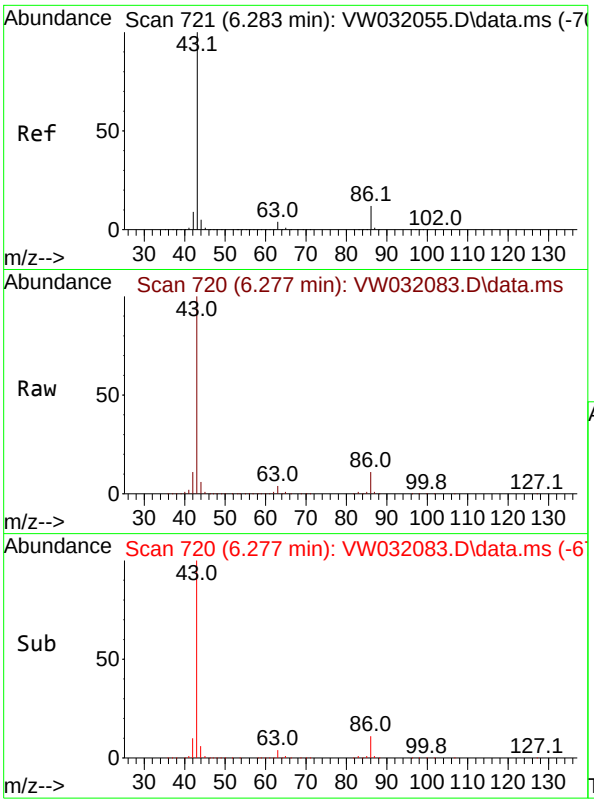


#22
Diisopropyl ether
Concen: 17.452 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 45 Resp: 141639

Ion	Ratio	Lower	Upper
45	100		
43	67.7	47.0	70.4
87	31.9	23.8	35.8
59	12.3	9.5	14.3



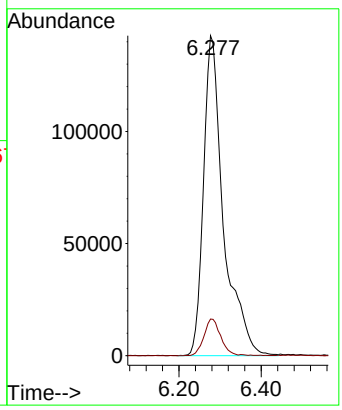


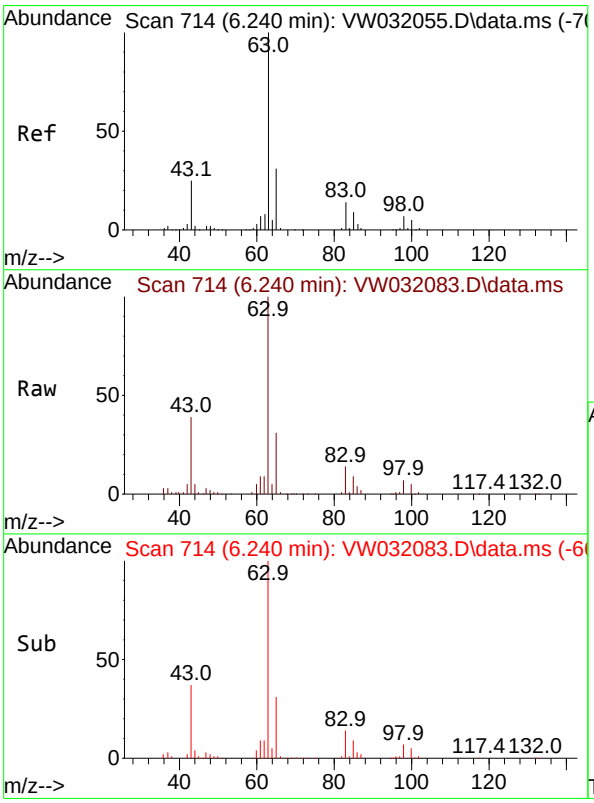
#23
Vinyl Acetate
Concen: 90.338 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 43 Resp: 481360

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.4	14.0

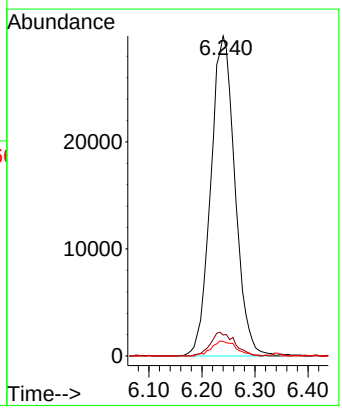


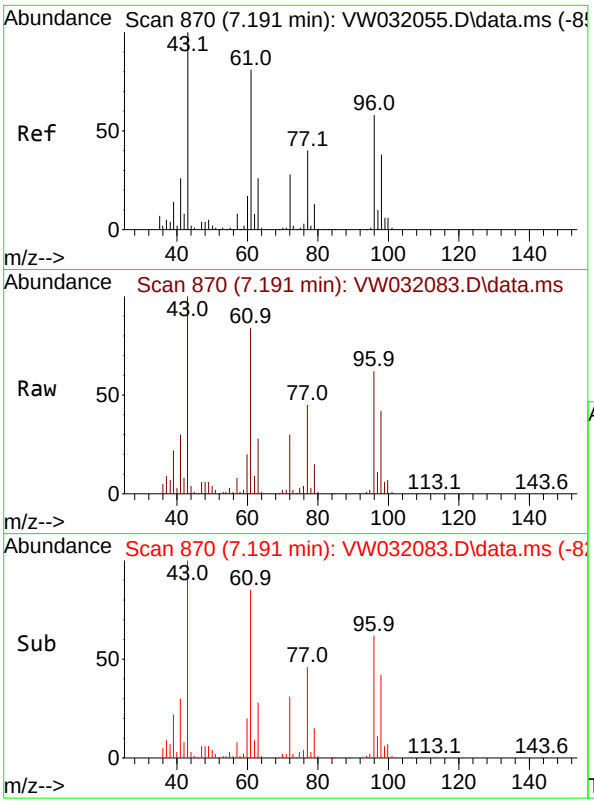


#24
1,1-Dichloroethane
Concen: 18.303 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 63 Resp: 94906

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.7	11.1
100	4.6	2.5	7.4



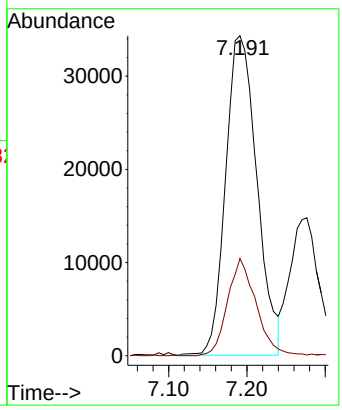


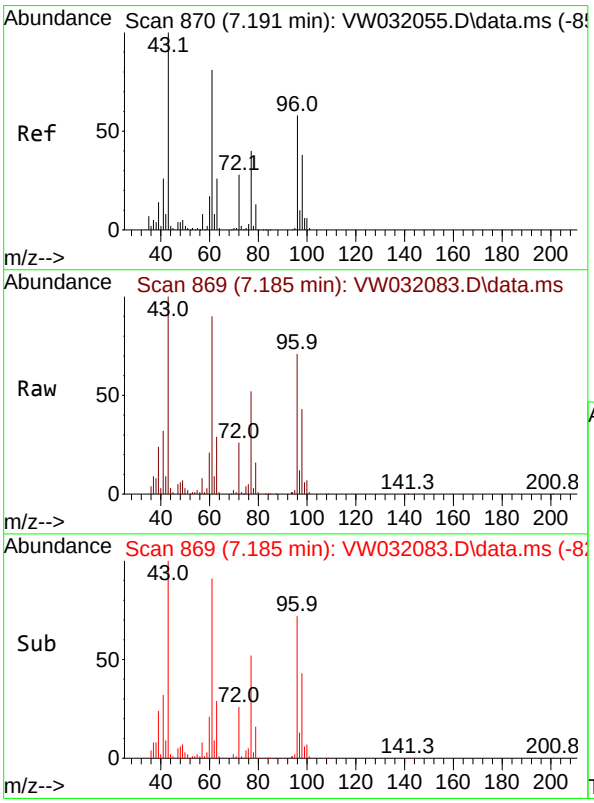
#25
2-Butanone
Concen: 91.978 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 43 Resp: 95473

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.3	33.5

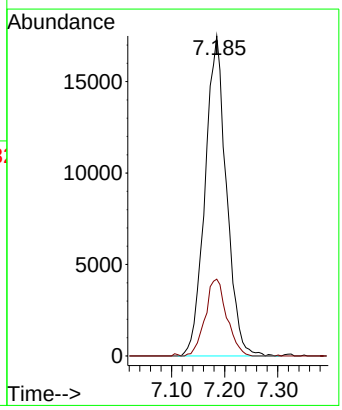


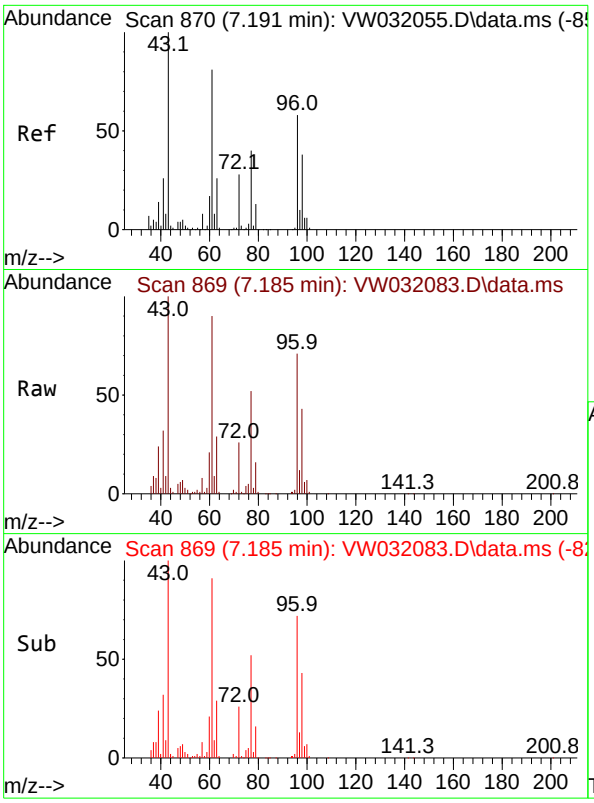


#26
2,2-Dichloropropane
Concen: 18.841 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 77 Resp: 49013

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.3	36.9



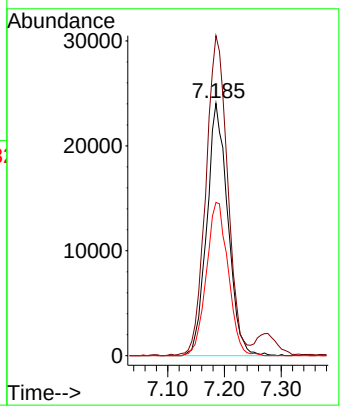


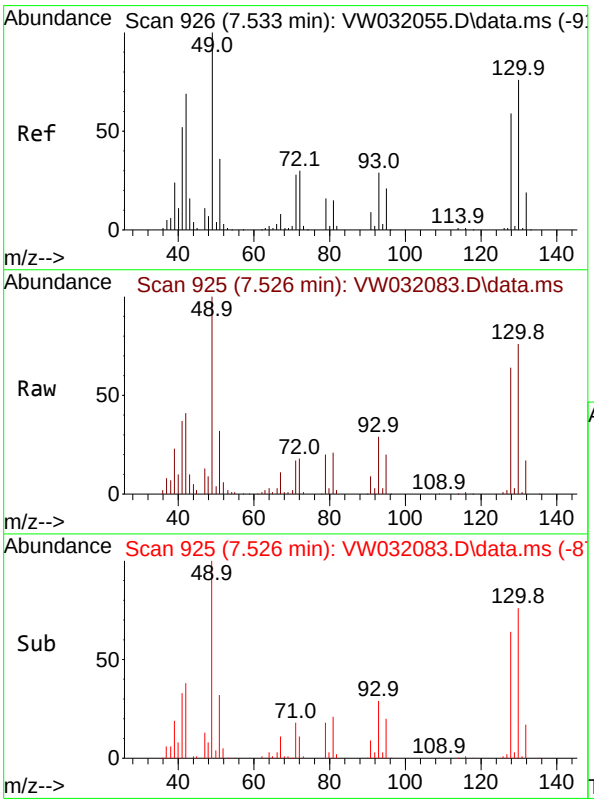
#27
cis-1,2-Dichloroethene
Concen: 18.864 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 96 Resp: 61895

Ion	Ratio	Lower	Upper
96	100		
61	131.5	0.0	281.2
98	63.0	0.0	130.8

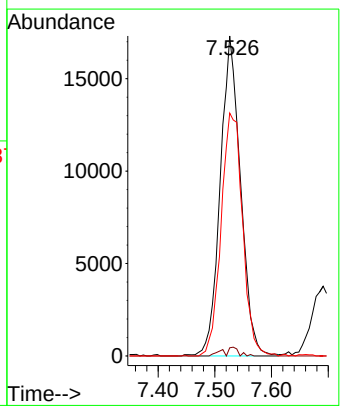


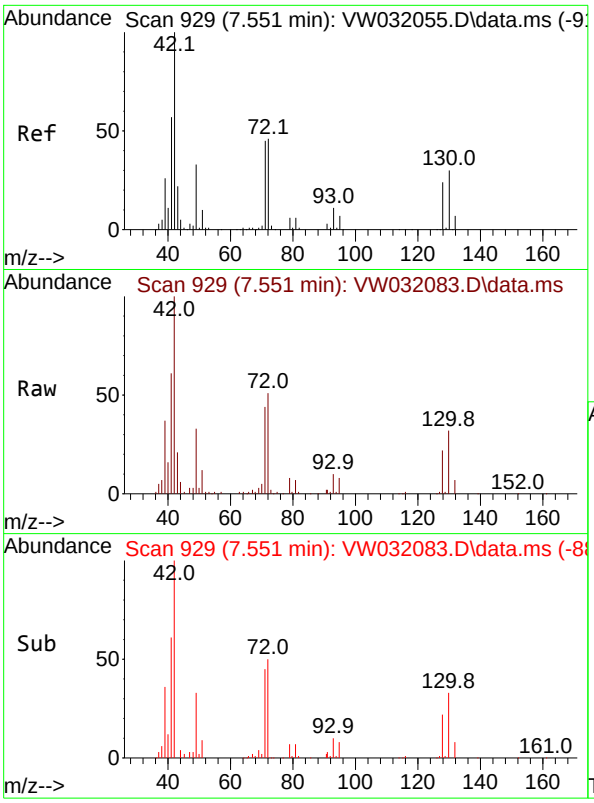


#28
Bromochloromethane
Concen: 18.270 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 49 Resp: 43111

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.2
130	80.0	61.9	92.9



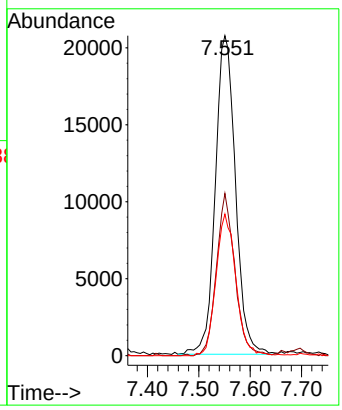


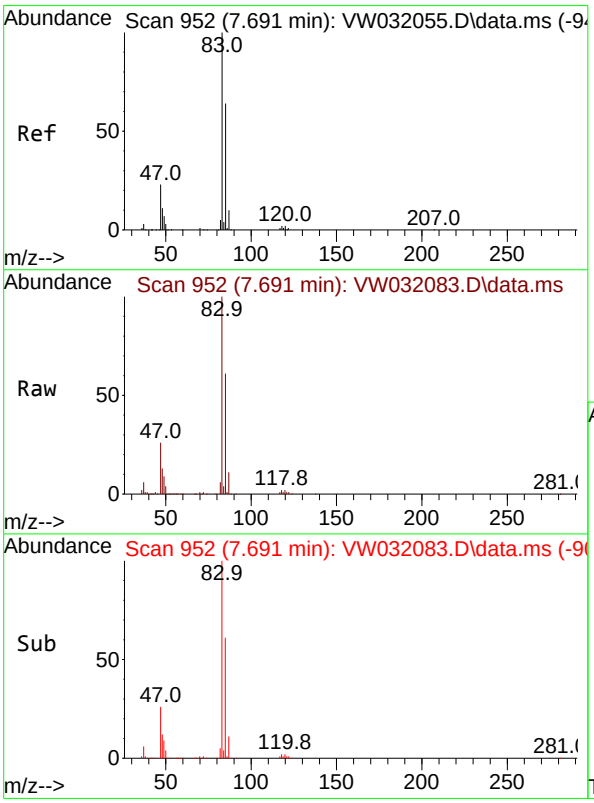
#29
Tetrahydrofuran
Concen: 82.447 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 42 Resp: 56439

Ion	Ratio	Lower	Upper
42	100		
72	46.6	36.6	55.0
71	43.9	34.7	52.1

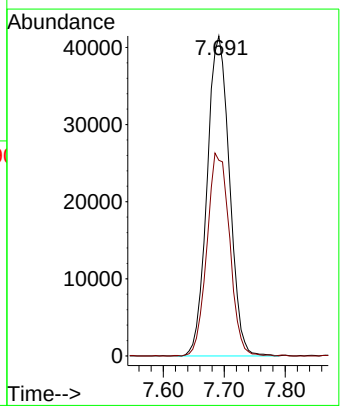


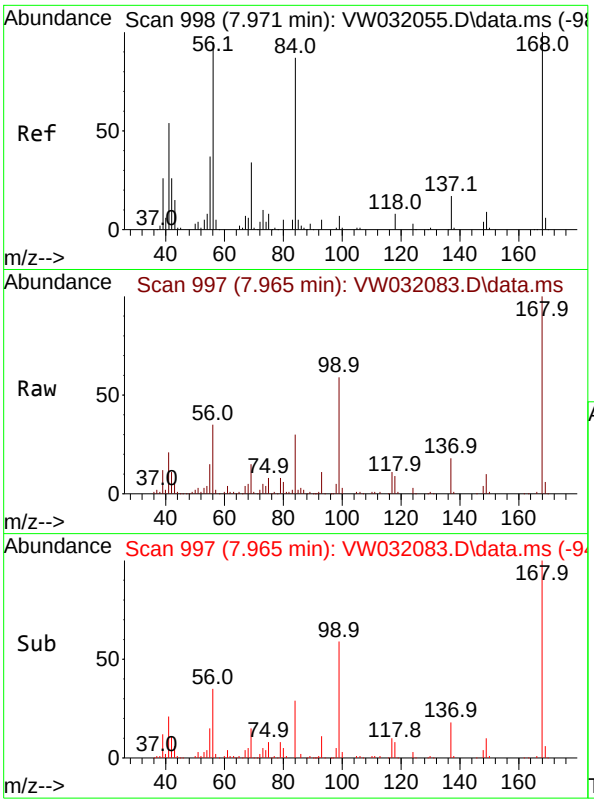


#30
Chloroform
Concen: 19.239 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 83 Resp: 105761

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.0	76.4



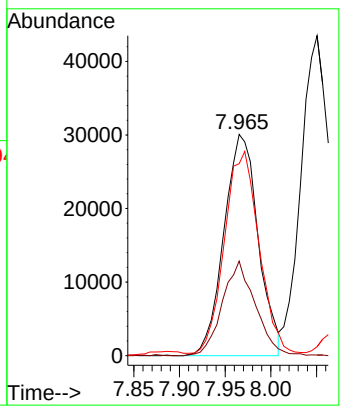


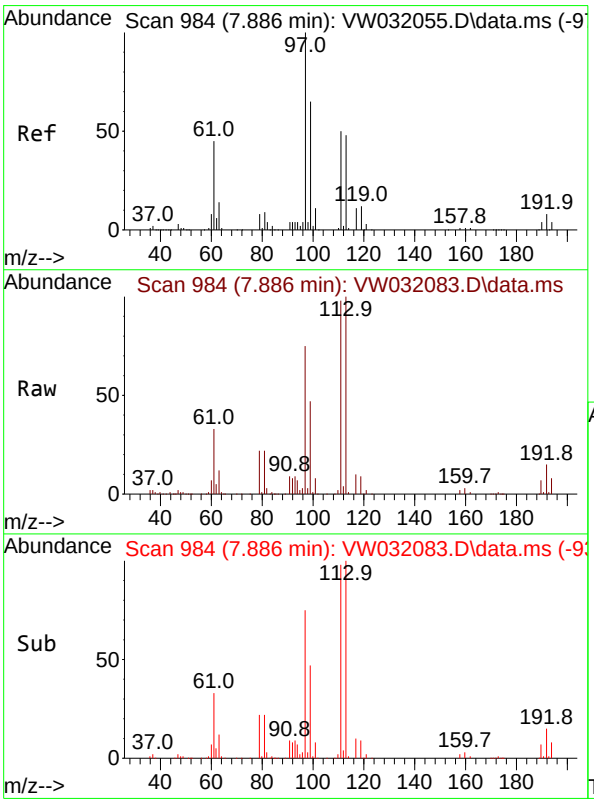
#31
Cyclohexane
Concen: 17.431 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 56 Resp: 78359

Ion	Ratio	Lower	Upper
56	100		
69	42.2	28.6	42.8
84	85.0	73.0	109.4

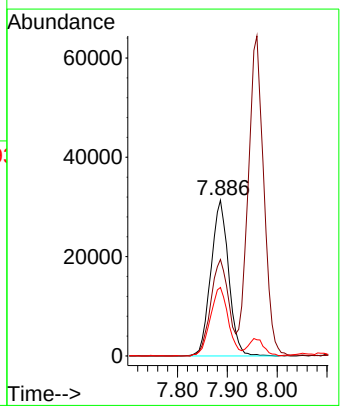


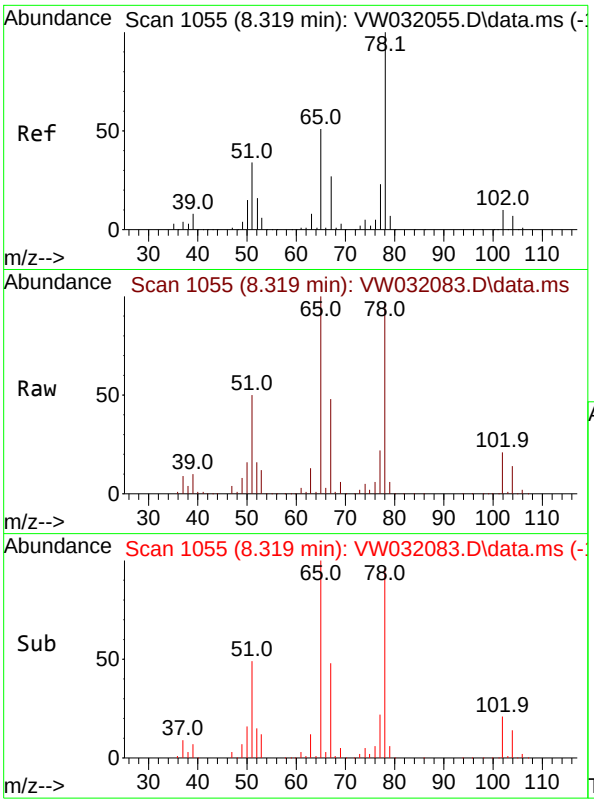


#32
1,1,1-Trichloroethane
Concen: 19.425 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 97 Resp: 77562

Ion	Ratio	Lower	Upper
97	100		
99	62.4	51.8	77.8
61	44.8	35.9	53.9



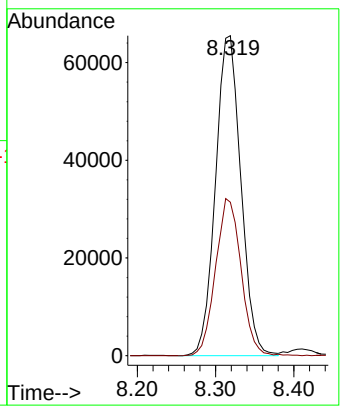


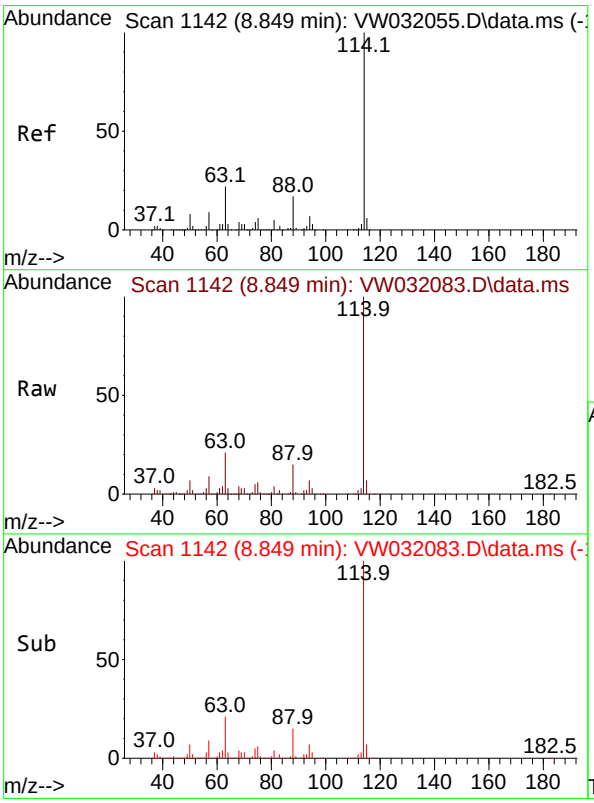
#33
1,2-Dichloroethane-d4
Concen: 46.808 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 65 Resp: 147653

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	102.4

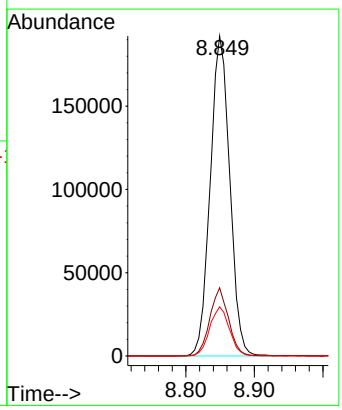


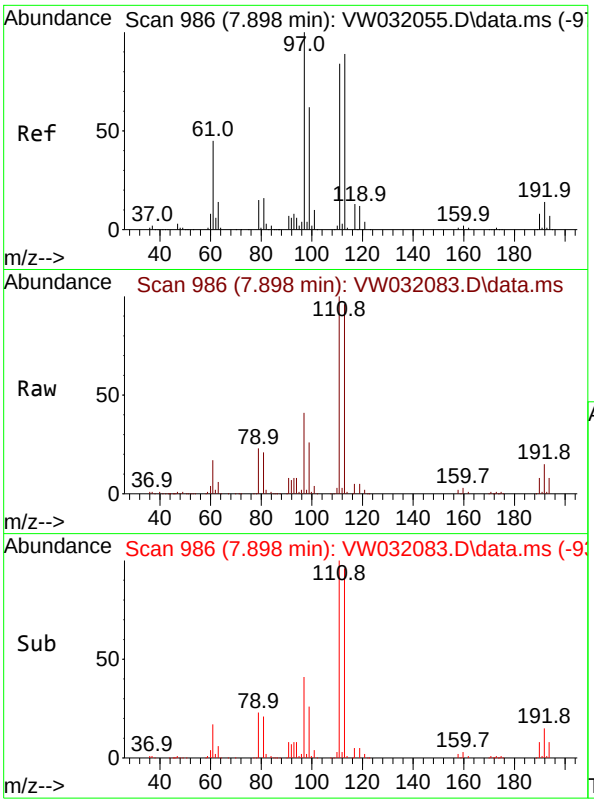


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:114 Resp: 379951

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	15.4	0.0	33.8



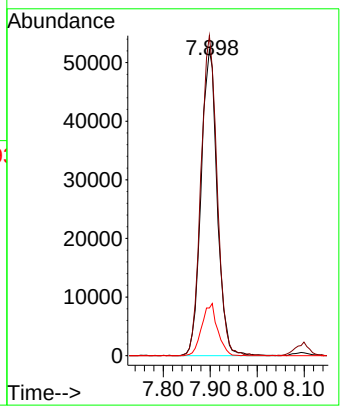


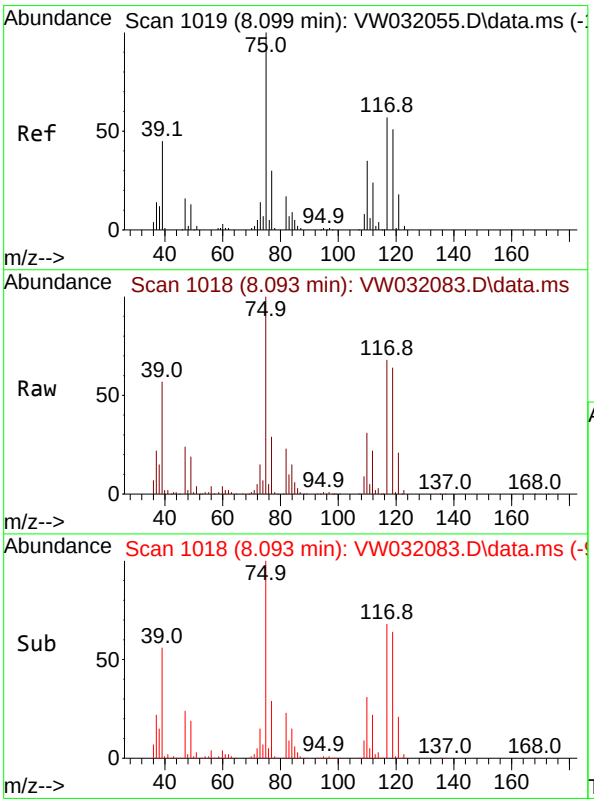
#35
Dibromofluoromethane
Concen: 50.548 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:113 Resp: 124076

Ion	Ratio	Lower	Upper
113	100		
111	105.0	80.1	120.1
192	16.7	13.1	19.7

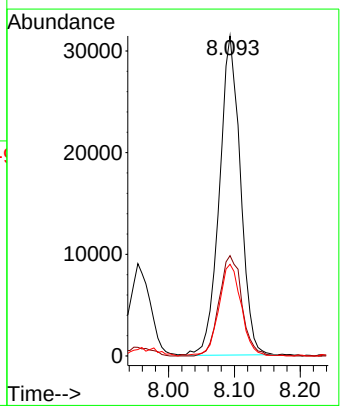


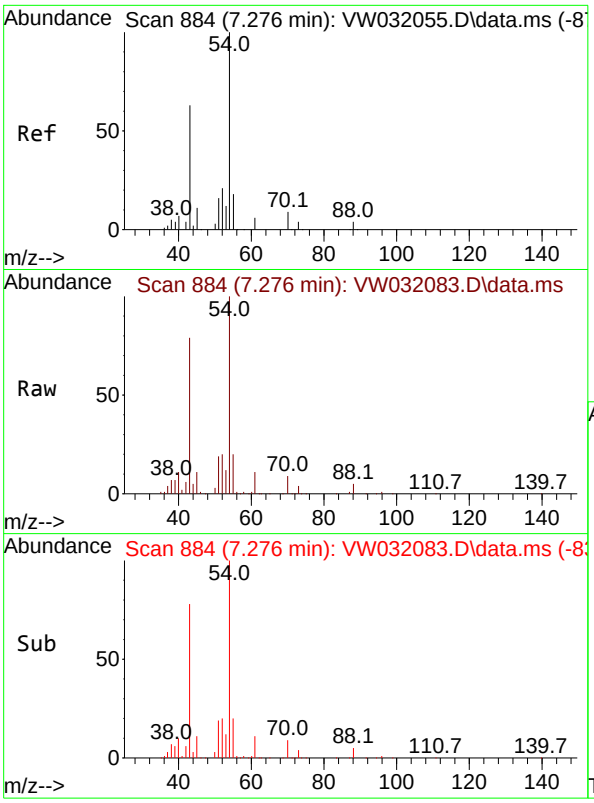


#36
1,1-Dichloropropene
Concen: 20.189 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 69861

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.4	52.2
77	30.6	24.7	37.1



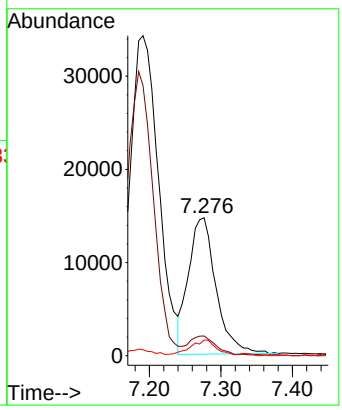


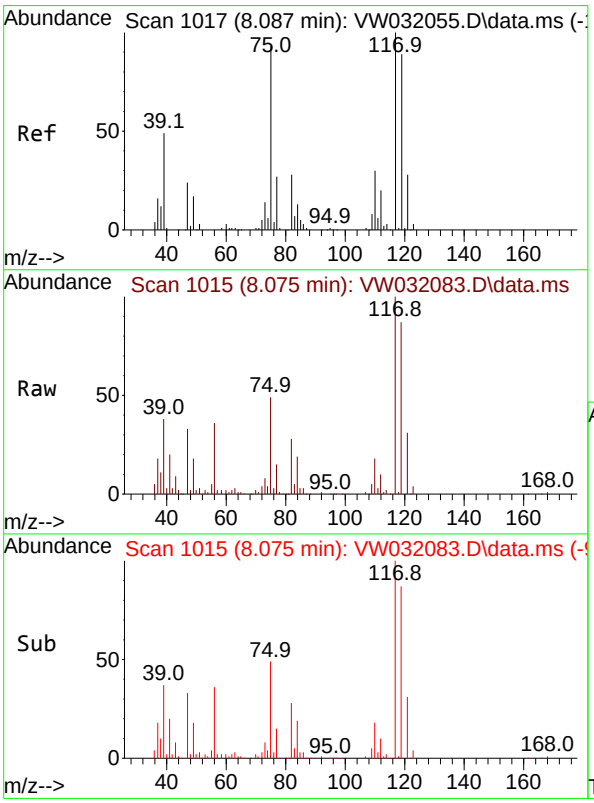
#37
Ethyl Acetate
Concen: 19.240 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 43 Resp: 39212

Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.8	17.6
70	10.9	9.4	14.0

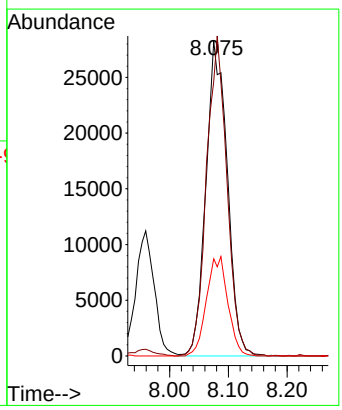


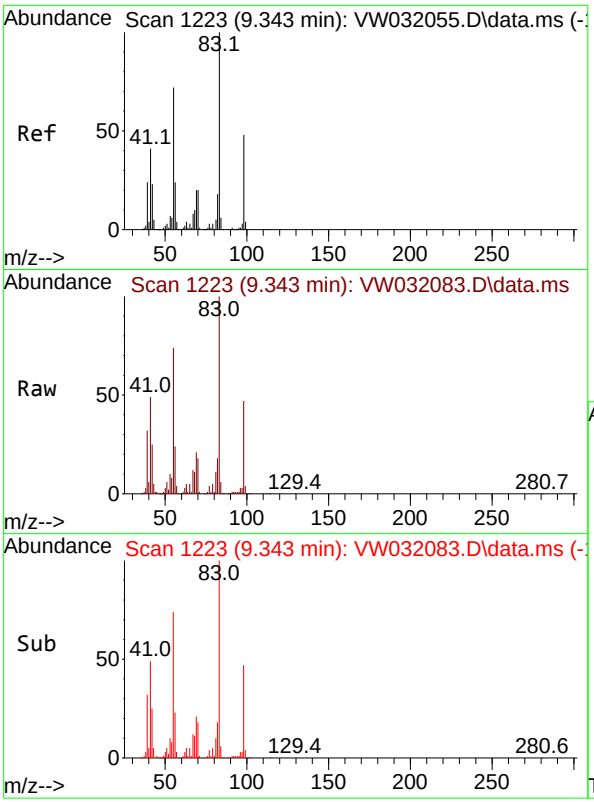


#38
Carbon Tetrachloride
Concen: 21.419 ug/l
RT: 8.075 min Scan# 1015
Delta R.T. -0.012 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:117 Resp: 71526

Ion	Ratio	Lower	Upper
117	100		
119	87.2	71.4	107.2
121	30.8	22.3	33.5



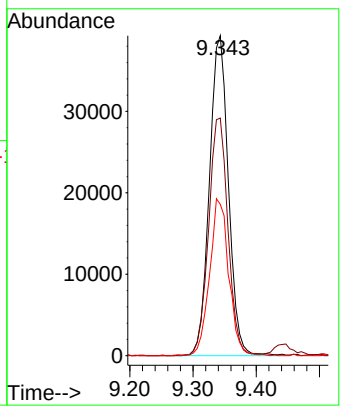


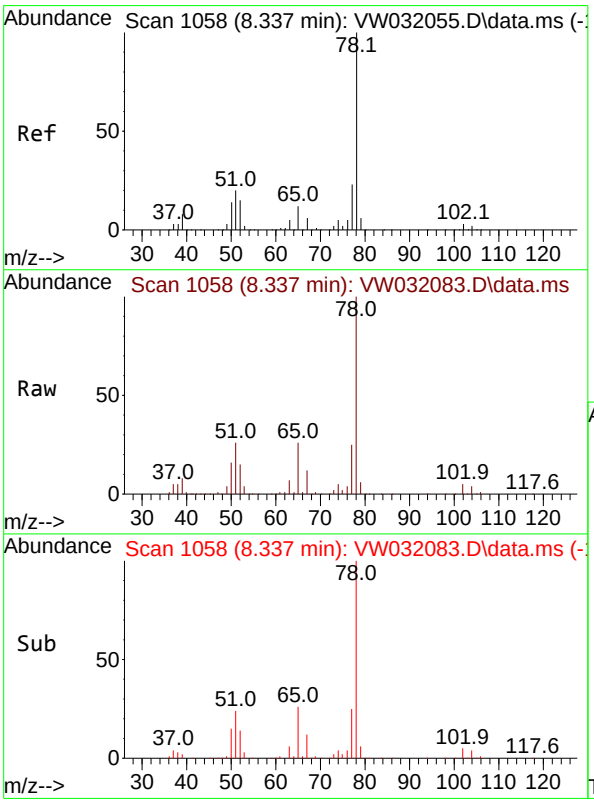
#39
Methylcyclohexane
Concen: 19.402 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 83 Resp: 81832

Ion	Ratio	Lower	Upper
83	100		
55	74.1	57.9	86.9
98	47.3	38.3	57.5

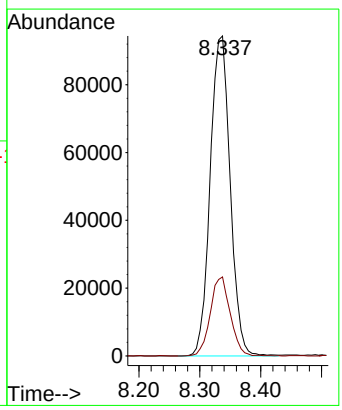


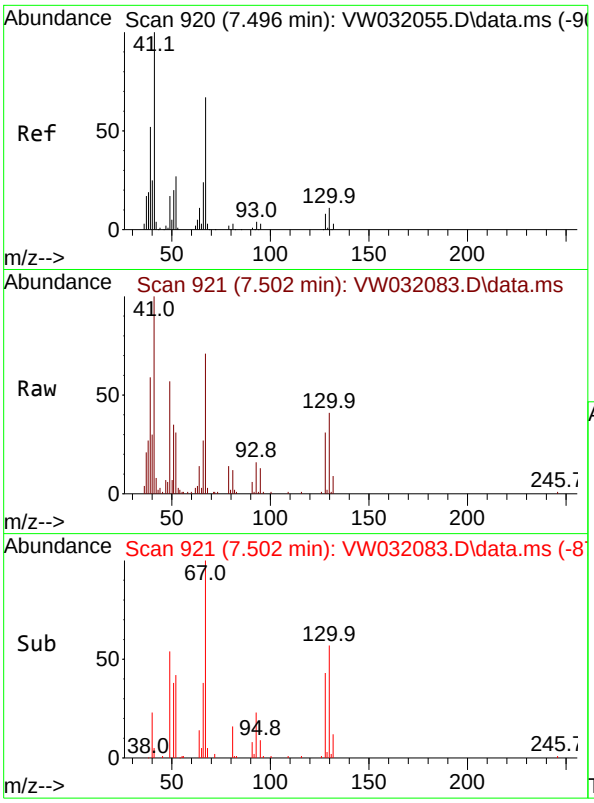


#40
Benzene
Concen: 19.983 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 78 Resp: 214937

Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.4	27.6



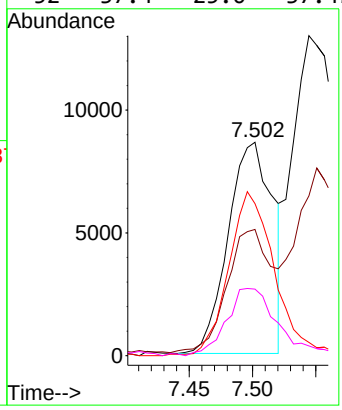


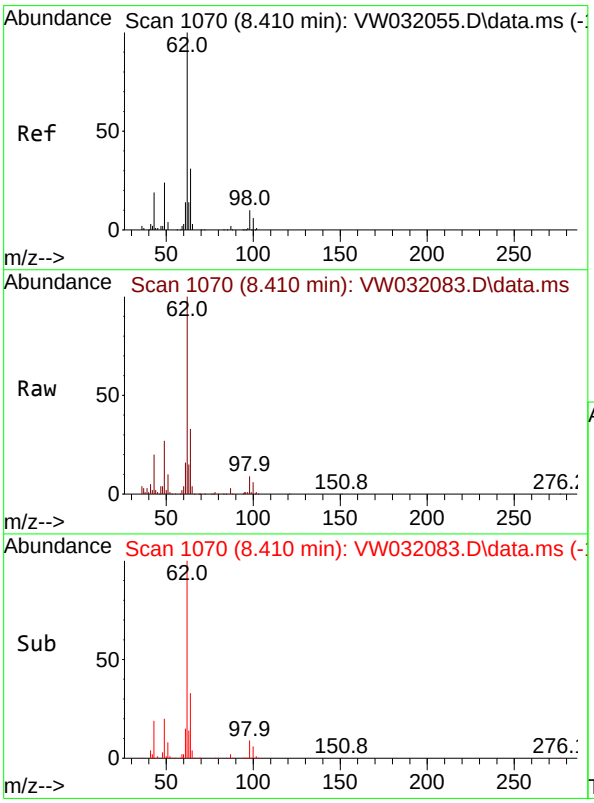
#41
Methacrylonitrile
Concen: 18.301 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 41 Resp: 21151

Ion	Ratio	Lower	Upper
41	100		
39	59.2	42.6	63.8
67	80.1	61.0	91.4
52	37.4	25.0	37.4#

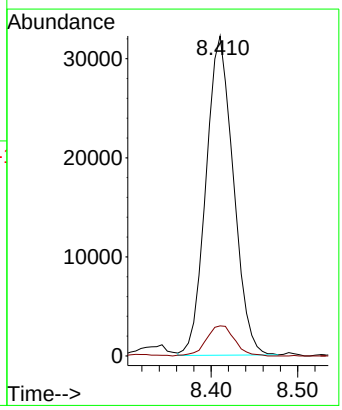


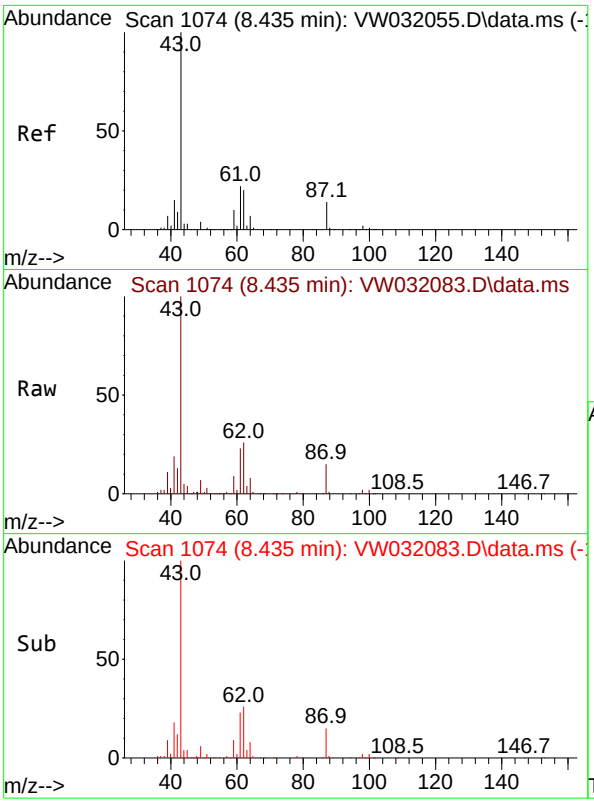


#42
1,2-Dichloroethane
Concen: 20.552 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 62 Resp: 70737

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8



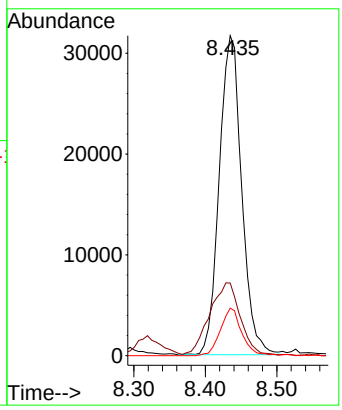


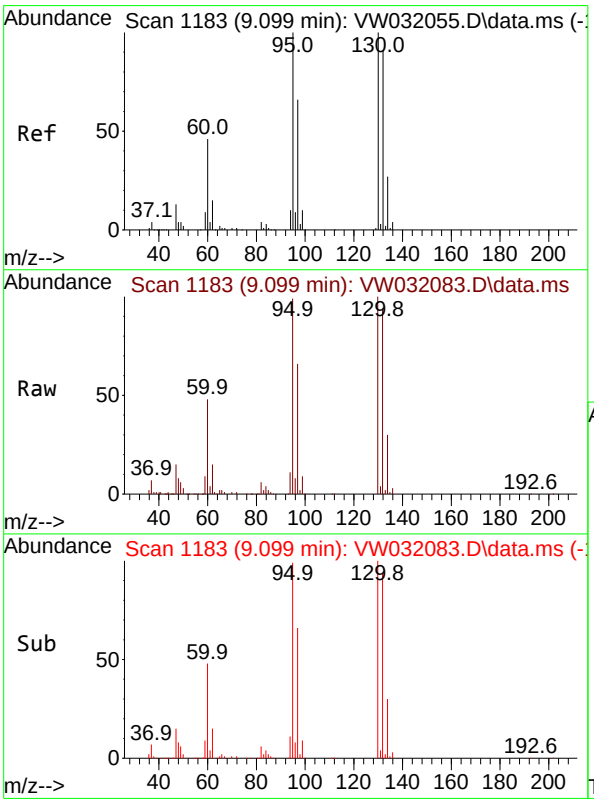
#43
Isopropyl Acetate
Concen: 18.403 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 43 Resp: 69002

Ion	Ratio	Lower	Upper
43	100		
61	30.6	23.8	35.8
87	14.1	11.7	17.5

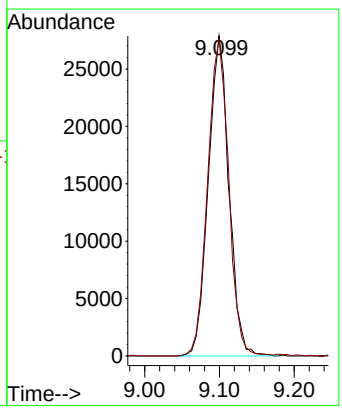


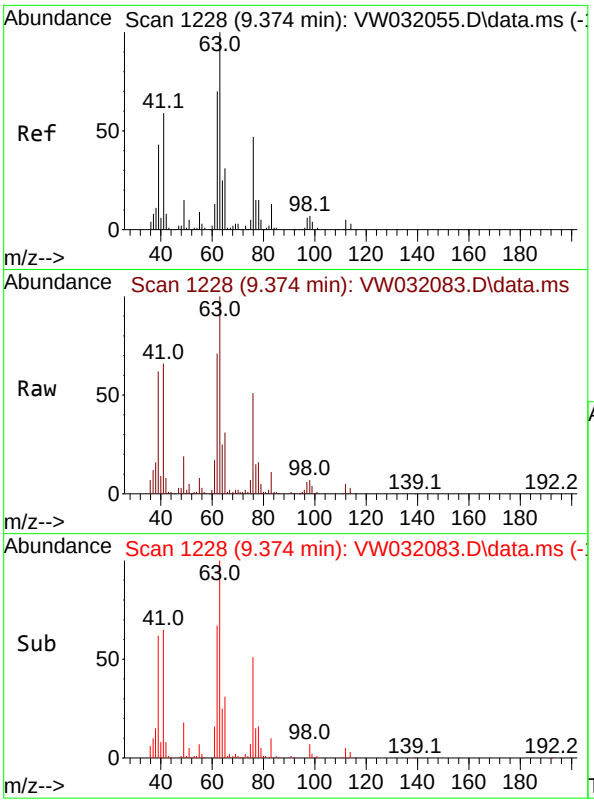


#44
Trichloroethene
Concen: 20.845 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:130 Resp: 53394

Ion	Ratio	Lower	Upper
130	100		
95	99.2	0.0	200.6



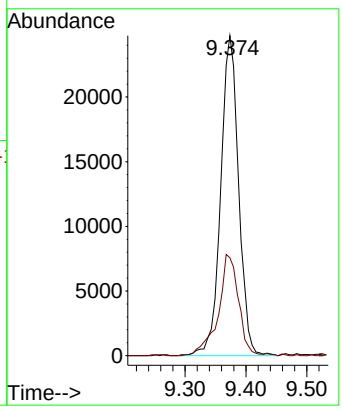


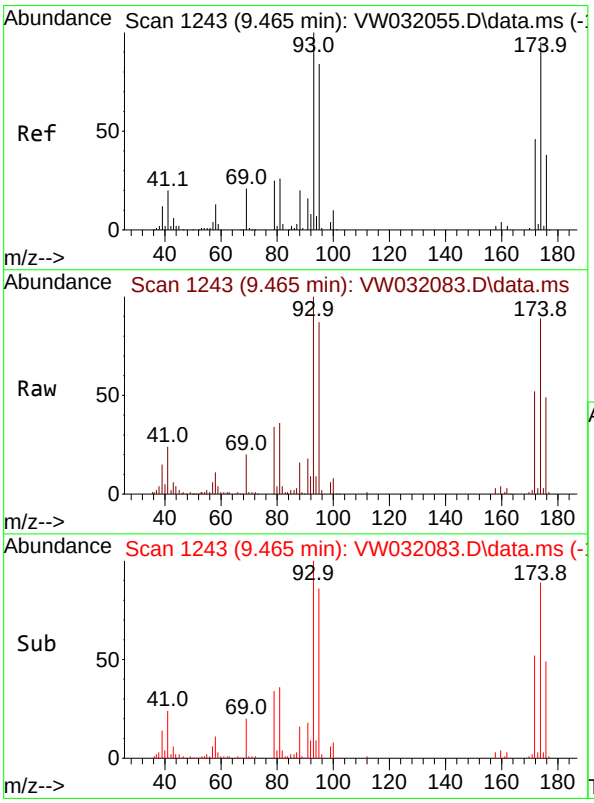
#45
1,2-Dichloropropane
Concen: 19.487 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 63 Resp: 50638

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.6	36.8

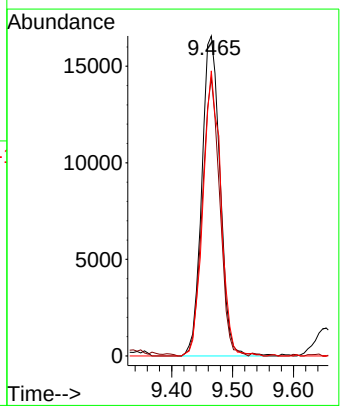


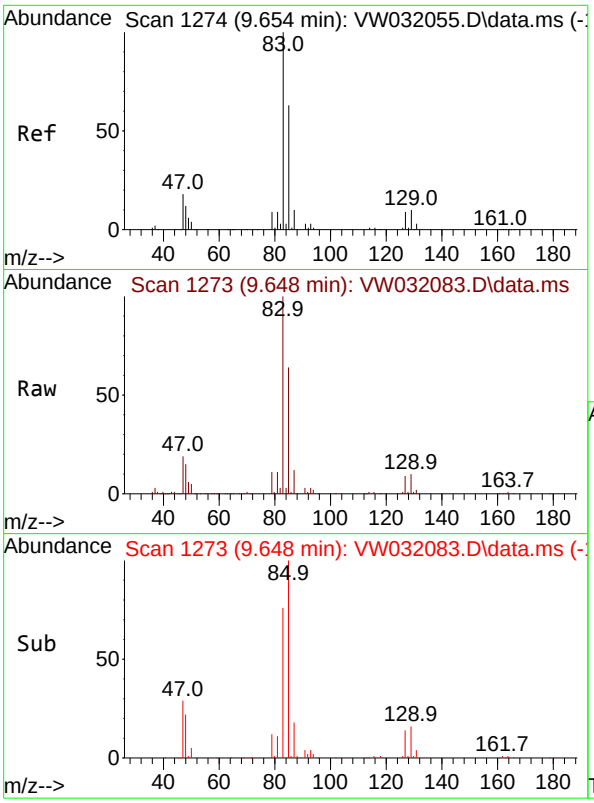


#46
Dibromomethane
Concen: 20.610 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 93 Resp: 34565

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.3	97.9
174	86.6	68.6	102.8



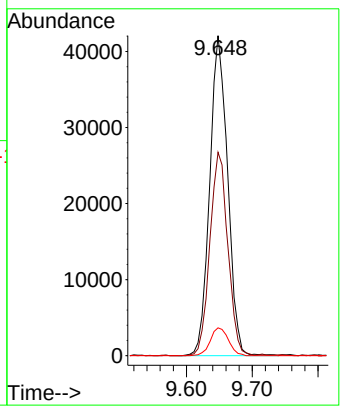


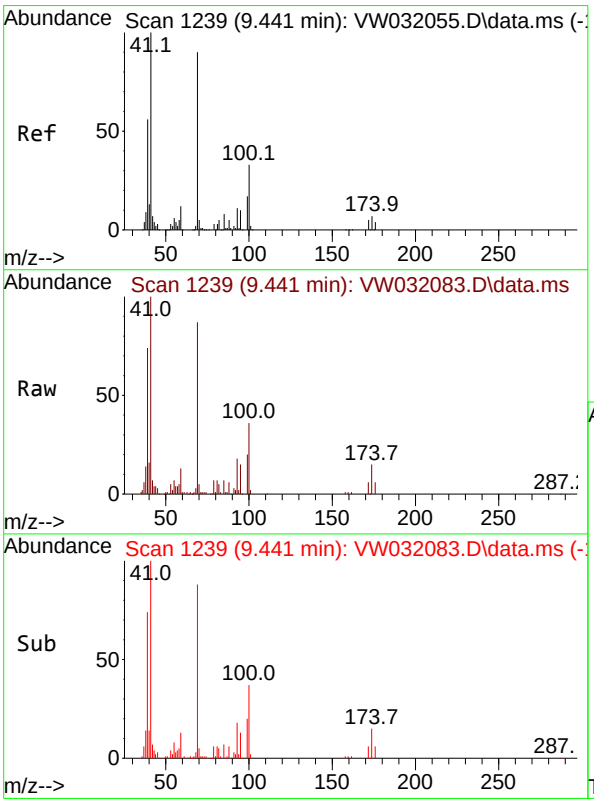
#47
Bromodichloromethane
Concen: 20.621 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 83 Resp: 79691

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	8.7	6.9	10.3

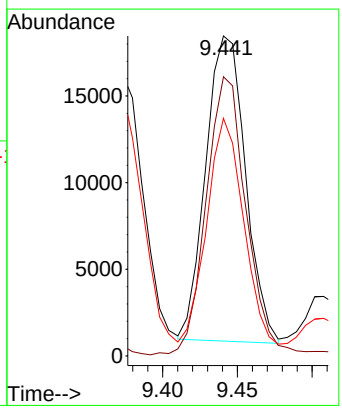


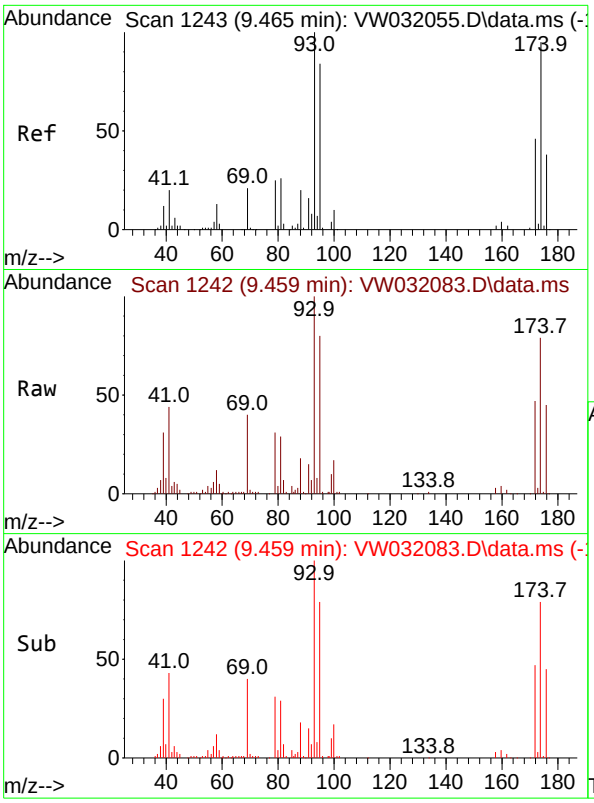


#48
Methyl methacrylate
Concen: 17.966 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 41 Resp: 32521

Ion	Ratio	Lower	Upper
41	100		
69	93.1	73.0	109.6
39	68.4	45.0	67.4#



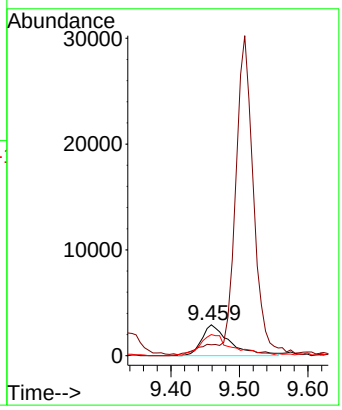


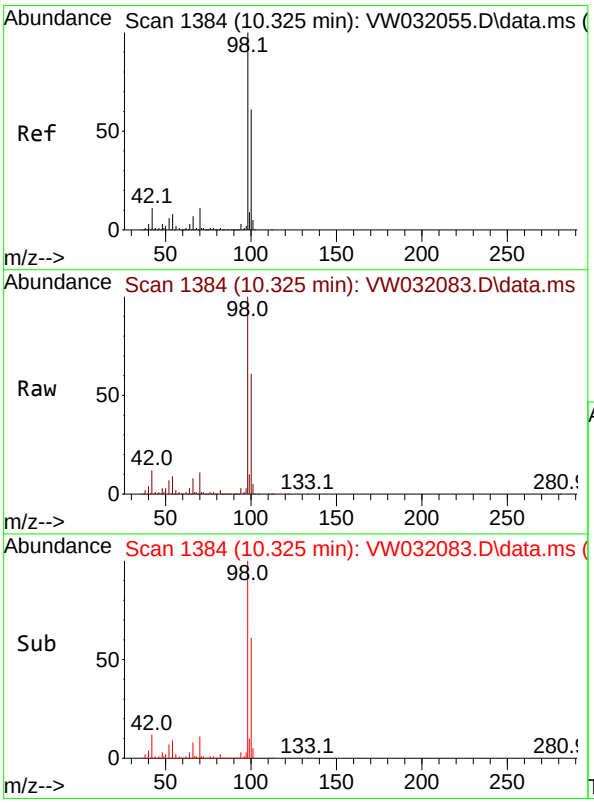
#49
1,4-Dioxane
Concen: 387.463 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 88 Resp: 8402

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	80.8	60.4	90.6

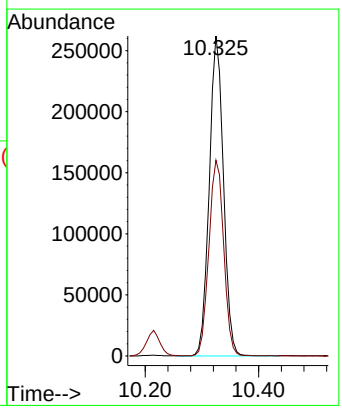


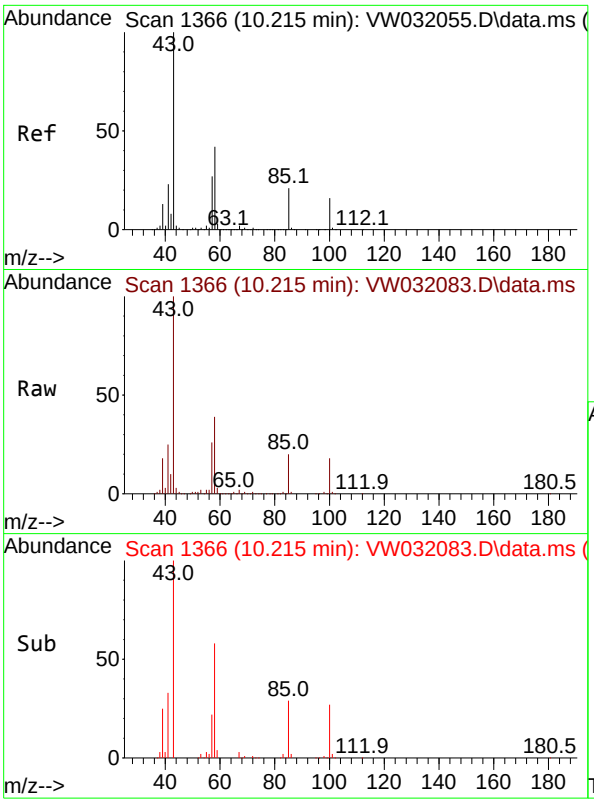


#50
Toluene-d8
Concen: 50.113 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 98 Resp: 454977

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7



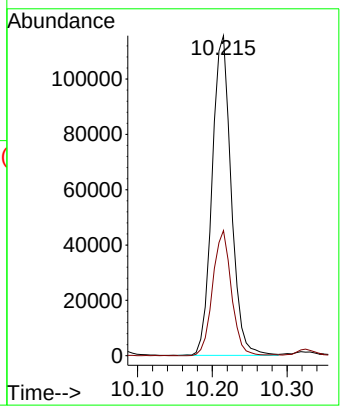


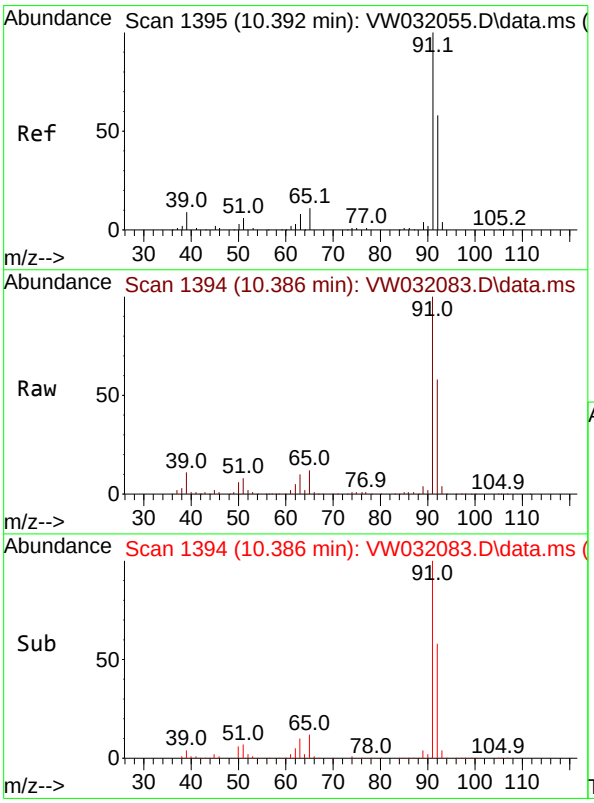
#51
4-Methyl-2-Pentanone
Concen: 96.913 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 43 Resp: 205106

Ion	Ratio	Lower	Upper
43	100		
58	38.5	33.1	49.7

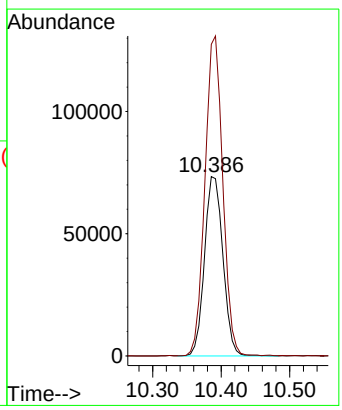


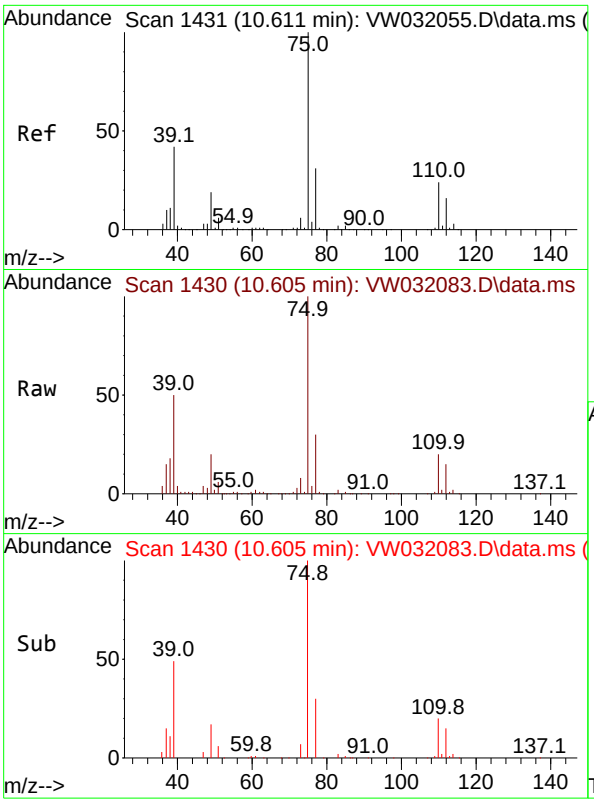


#52
Toluene
Concen: 20.277 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 92 Resp: 137378

Ion	Ratio	Lower	Upper
92	100		
91	172.5	136.3	204.5



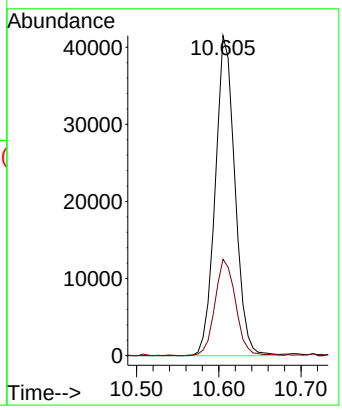


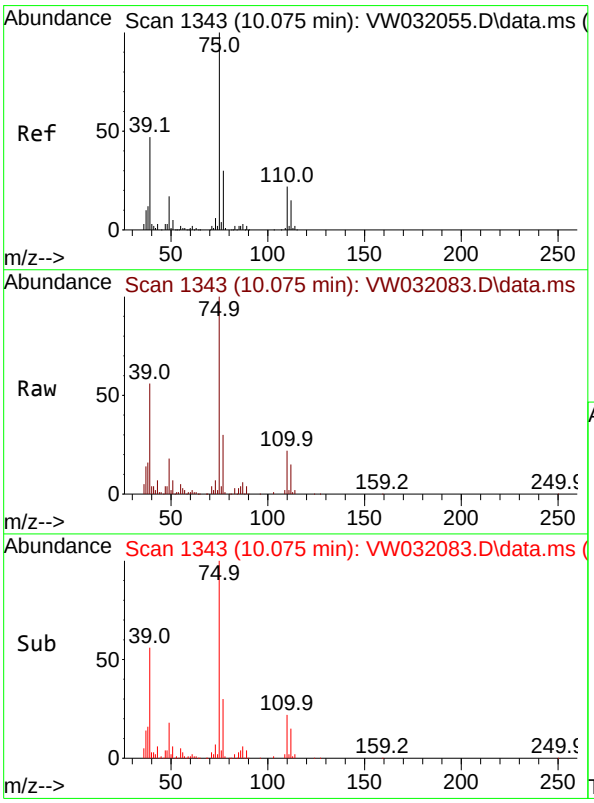
#53
t-1,3-Dichloropropene
Concen: 19.147 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 75 Resp: 69323

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.6

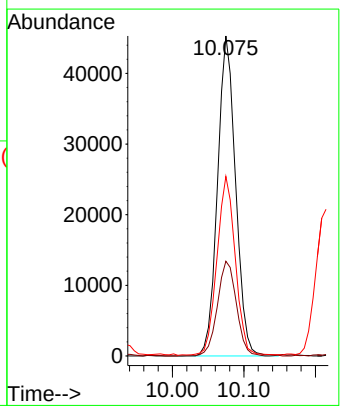


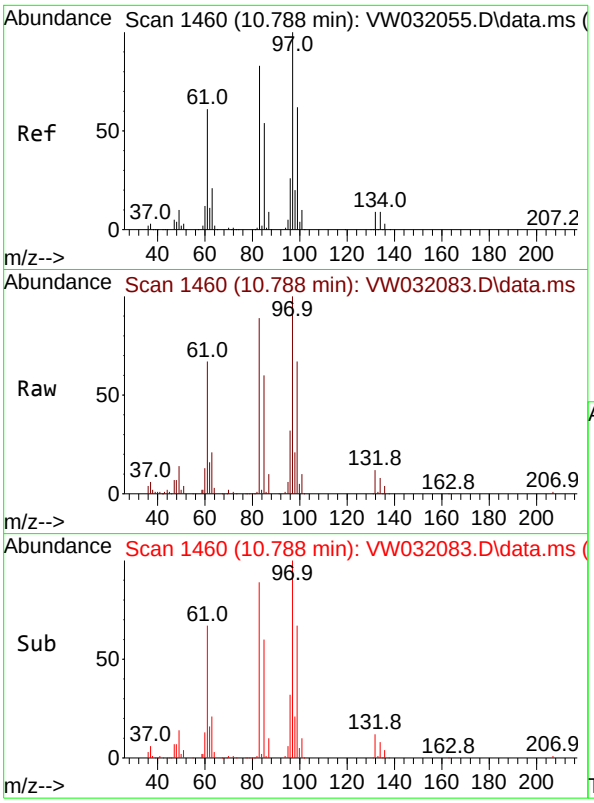


#54
cis-1,3-Dichloropropene
Concen: 19.350 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 79480

Ion	Ratio	Lower	Upper
75	100		
77	29.5	24.0	36.0
39	55.9	37.8	56.8



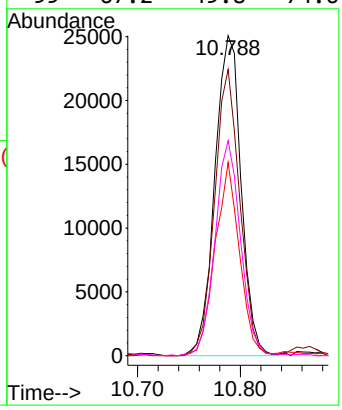


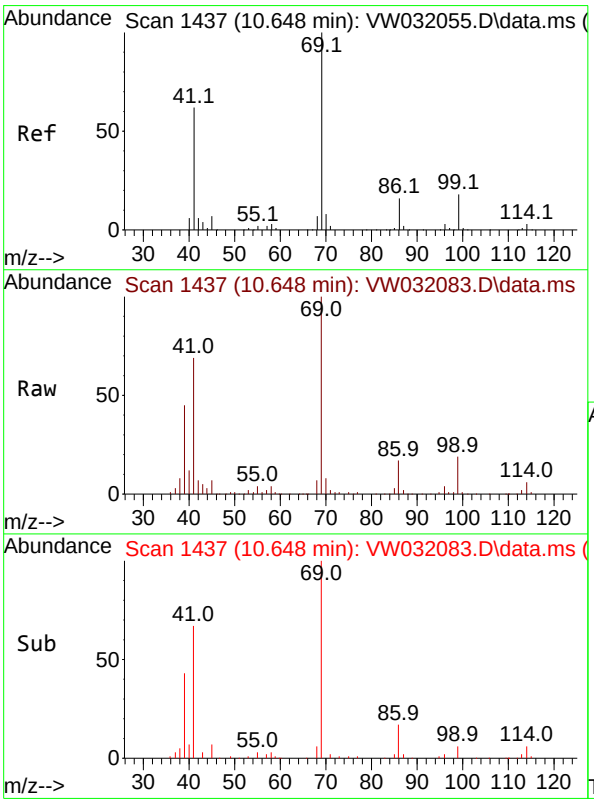
#55
1,1,2-Trichloroethane
Concen: 20.001 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 97 Resp: 44575

Ion	Ratio	Lower	Upper
97	100		
83	89.4	66.4	99.6
85	60.4	43.1	64.7
99	67.2	49.8	74.6

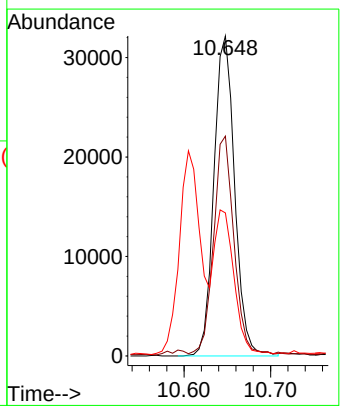


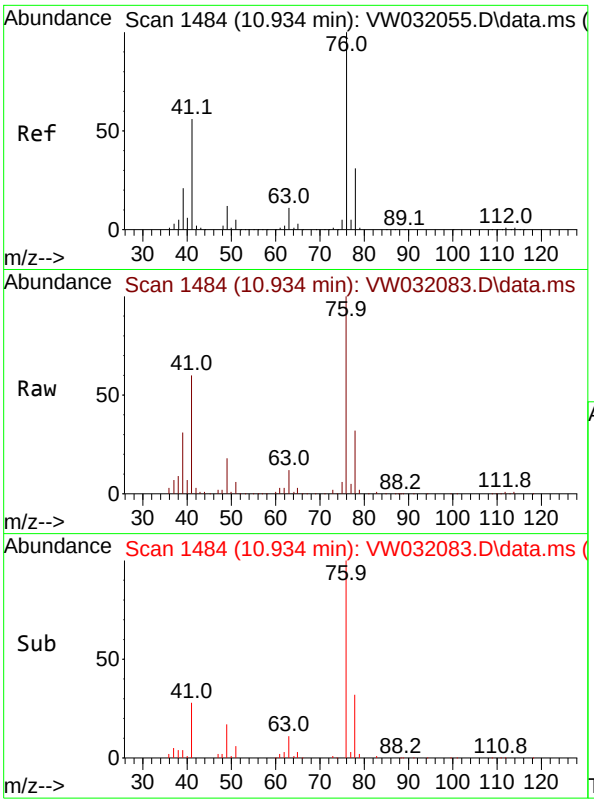


#56
Ethyl methacrylate
Concen: 17.973 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 69 Resp: 53600

Ion	Ratio	Lower	Upper
69	100		
41	66.3	51.2	76.8
39	41.7	25.4	38.0#



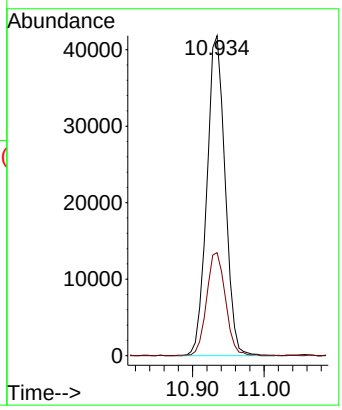


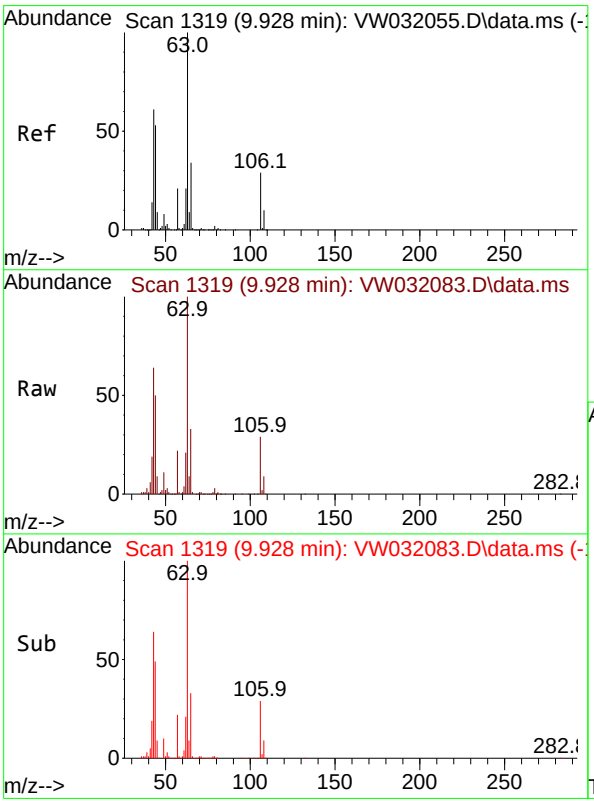
#57
1,3-Dichloropropane
Concen: 19.038 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 76 Resp: 73958

Ion	Ratio	Lower	Upper
76	100		
78	33.5	25.8	38.6

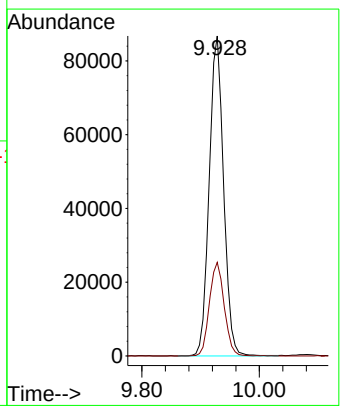


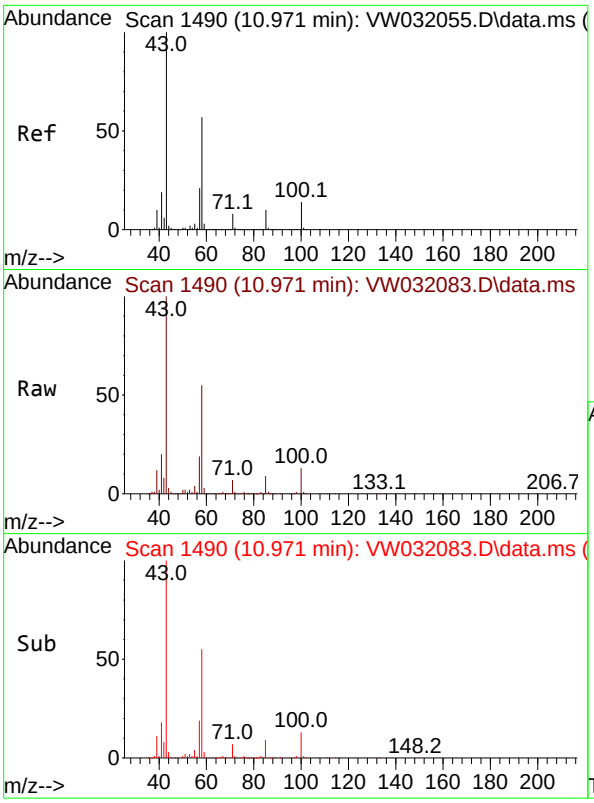


#58
2-Chloroethyl Vinyl ether
Concen: 89.504 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 63 Resp: 147647

Ion	Ratio	Lower	Upper
63	100		
106	30.0	23.5	35.3



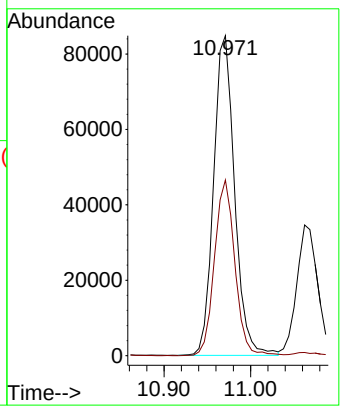


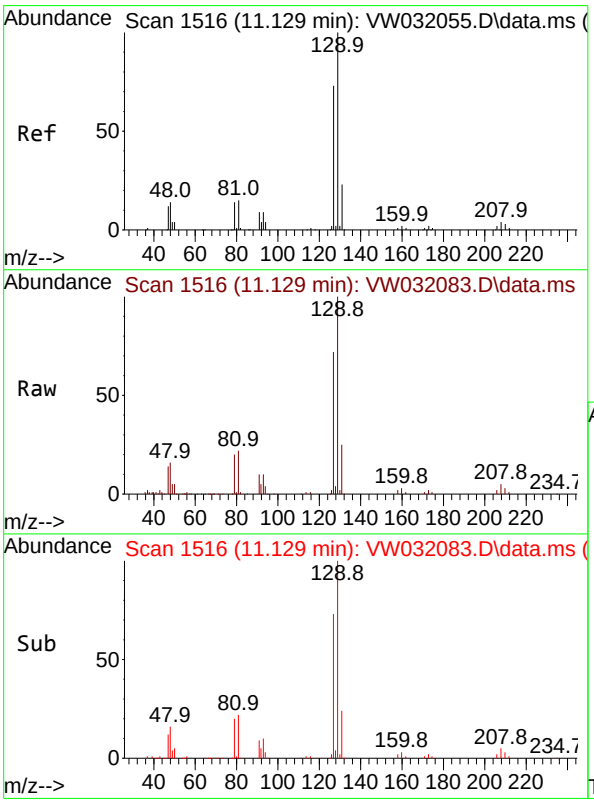
#59
2-Hexanone
Concen: 97.375 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 43 Resp: 142726

Ion	Ratio	Lower	Upper
43	100		
58	53.4	28.3	85.0

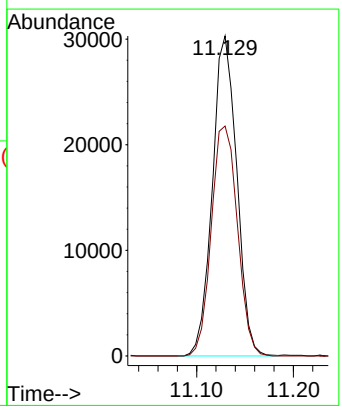


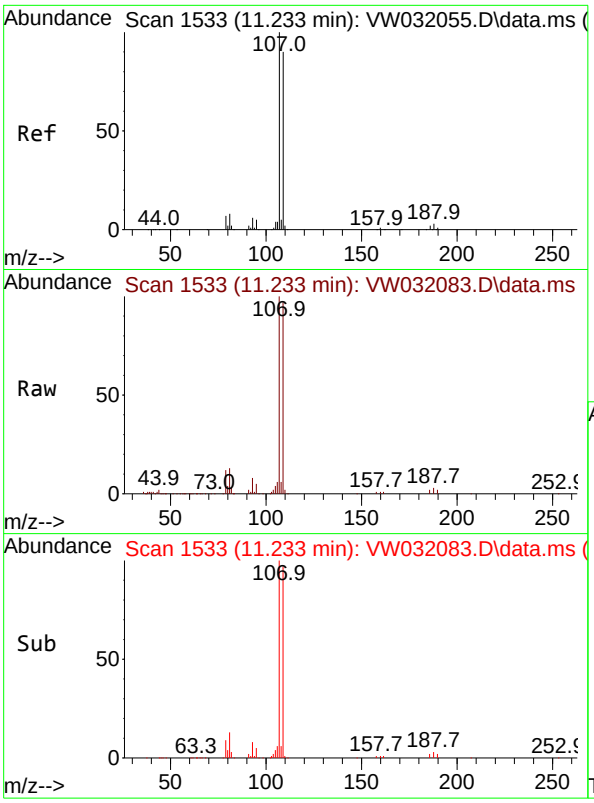


#60
Dibromochloromethane
Concen: 20.855 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:129 Resp: 53091

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9



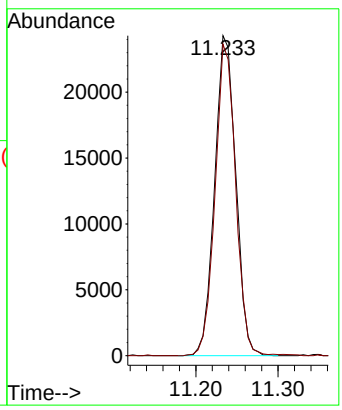


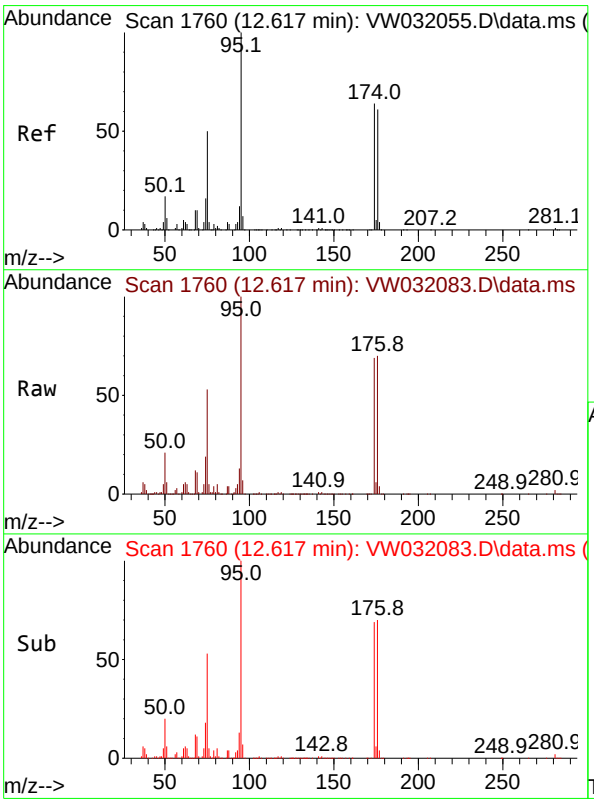
#61
1,2-Dibromoethane
Concen: 19.998 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:107 Resp: 43311

Ion	Ratio	Lower	Upper
107	100		
109	95.0	74.2	111.4

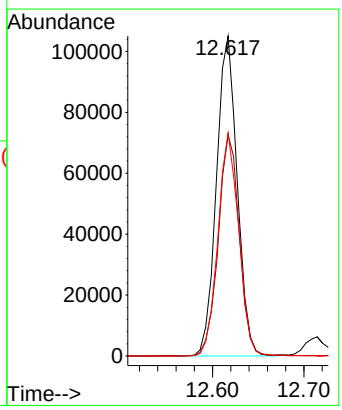


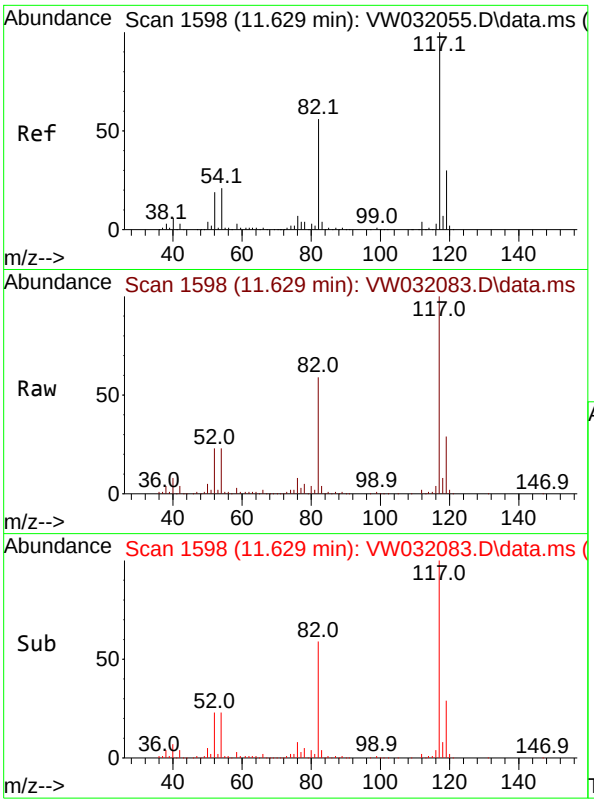


#62
4-Bromofluorobenzene
Concen: 49.621 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 95 Resp: 166018

Ion	Ratio	Lower	Upper
95	100		
174	69.7	0.0	129.0
176	69.9	0.0	124.6



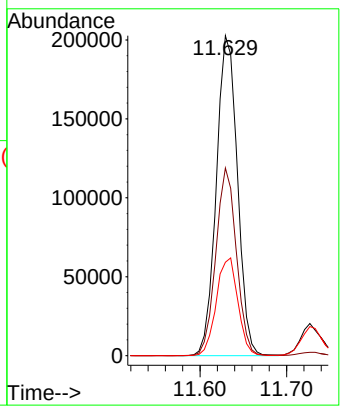


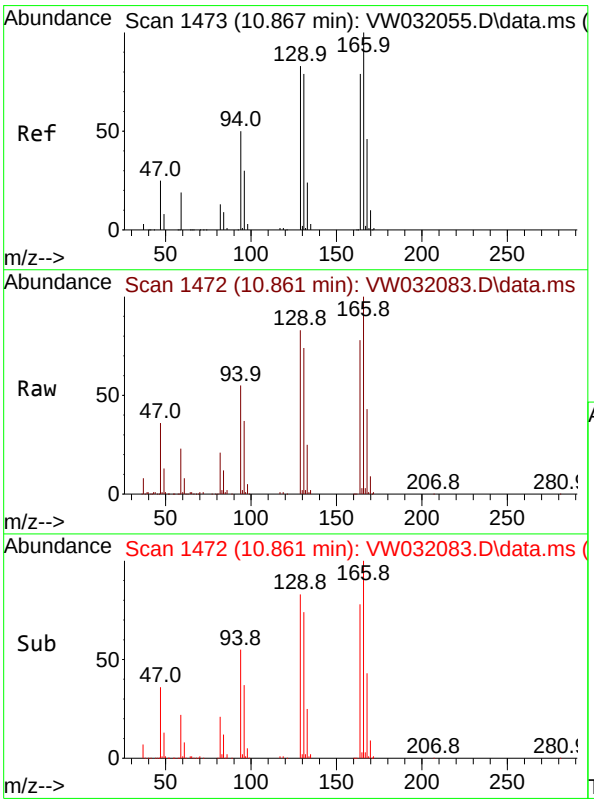
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:117 Resp: 343089

Ion	Ratio	Lower	Upper
117	100		
82	58.6	45.0	67.4
119	29.2	24.2	36.4

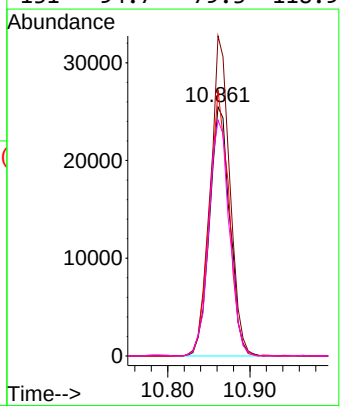


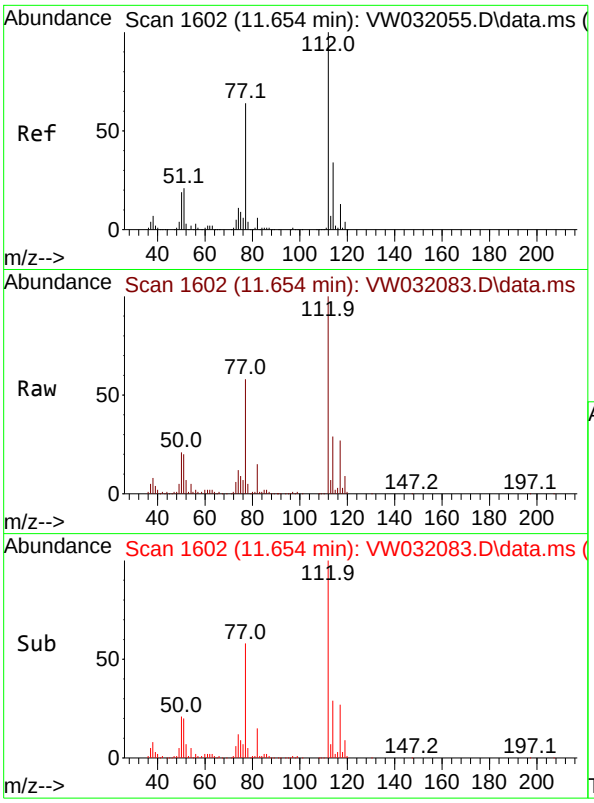


#64
Tetrachloroethene
Concen: 22.056 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:164 Resp: 43709

Ion	Ratio	Lower	Upper
164	100		
166	128.5	100.9	151.3
129	106.7	83.6	125.4
131	94.7	79.3	118.9



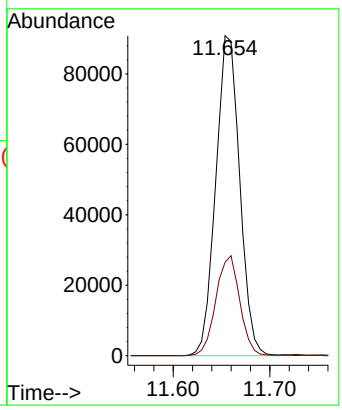


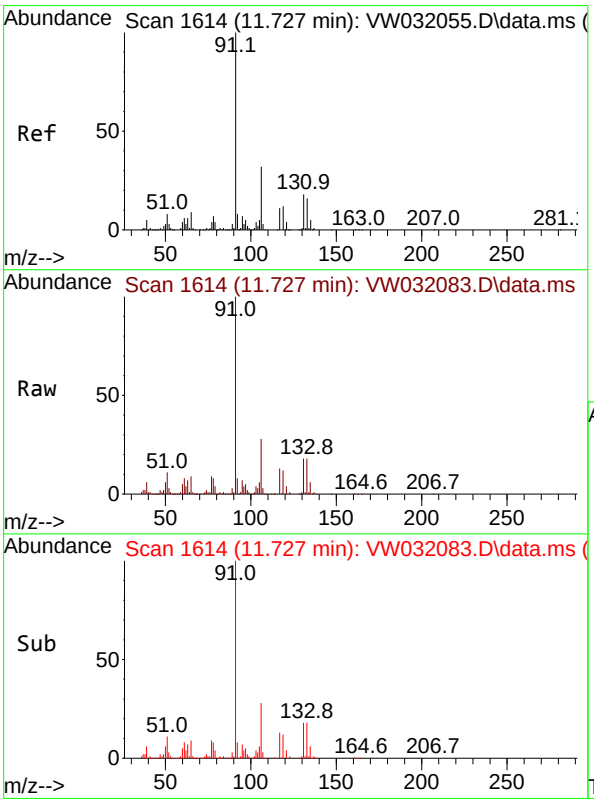
#65
Chlorobenzene
Concen: 20.880 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:112 Resp: 155926

Ion	Ratio	Lower	Upper
112	100		
114	29.2	26.9	40.3

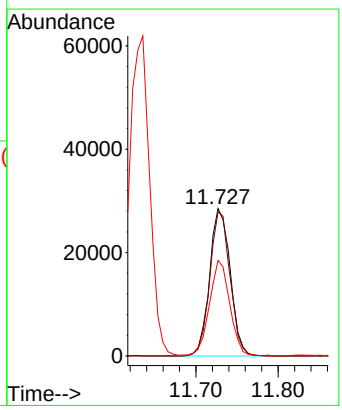


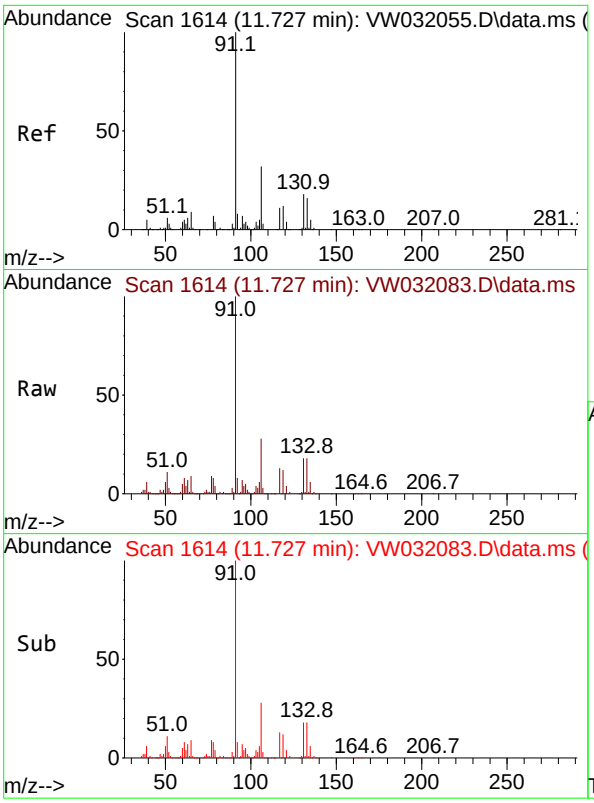


#66
1,1,1,2-Tetrachloroethane
Concen: 21.380 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:131 Resp: 49815

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	142.0
119	63.5	34.5	103.5



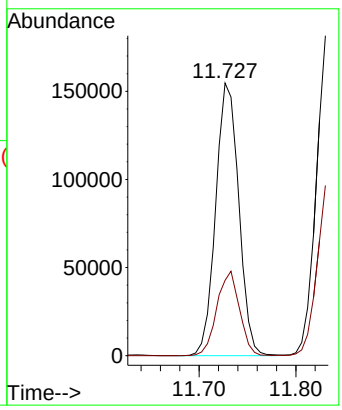


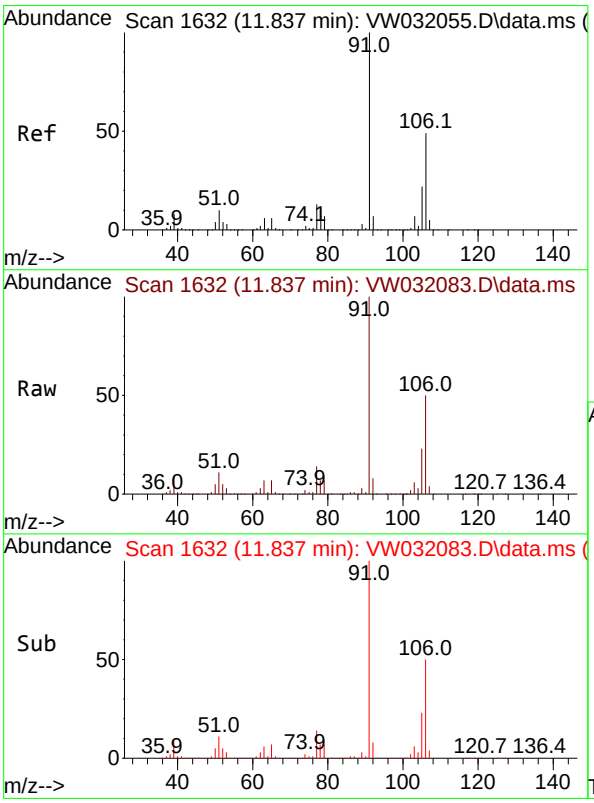
#67
Ethyl Benzene
Concen: 20.251 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 91 Resp: 256167

Ion	Ratio	Lower	Upper
91	100		
106	27.6	25.4	38.0

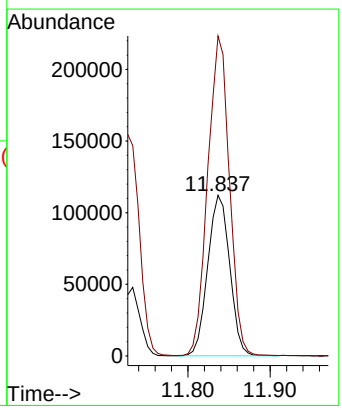


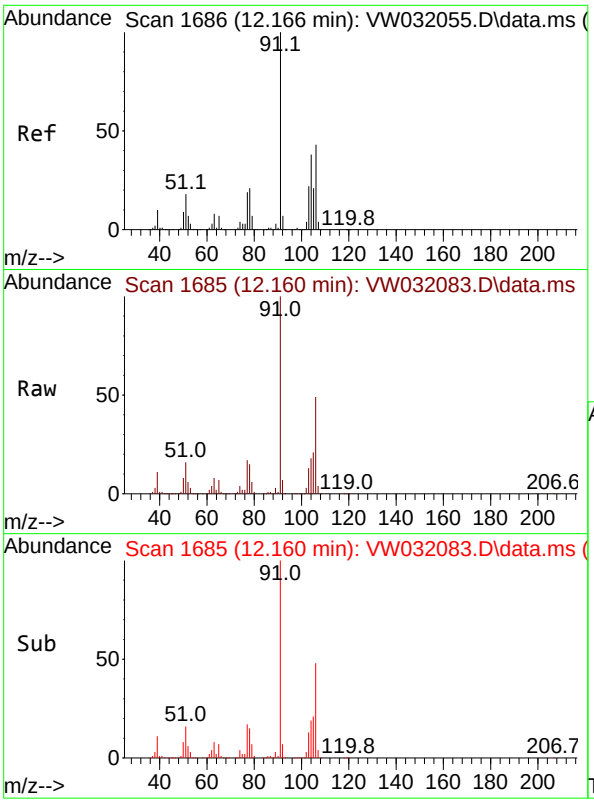


#68
m/p-Xylenes
Concen: 42.582 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:106 Resp: 207846

Ion	Ratio	Lower	Upper
106	100		
91	197.5	162.2	243.2



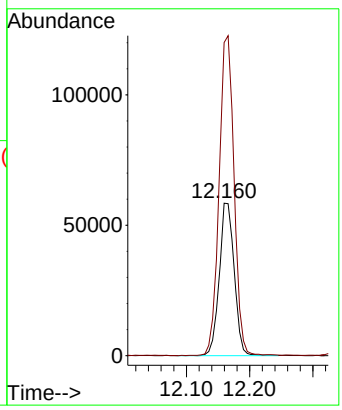


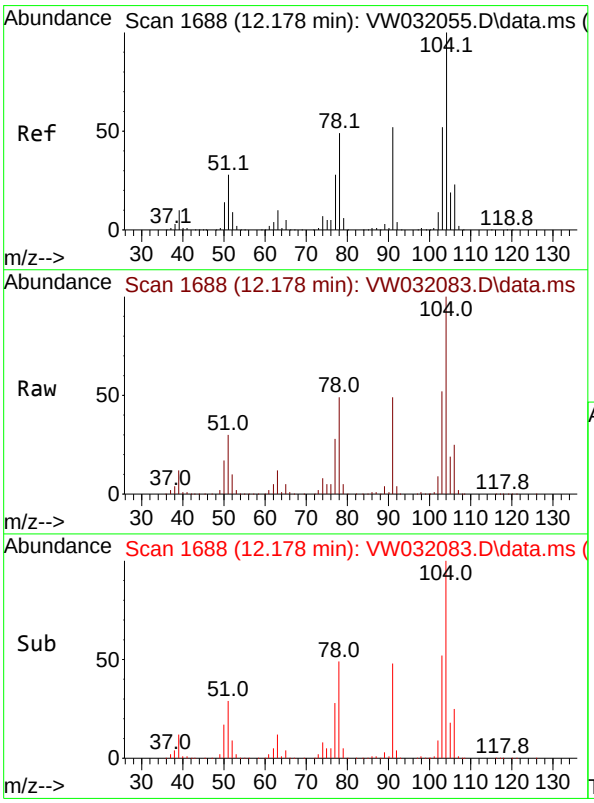
#69
o-Xylene
Concen: 21.160 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:106 Resp: 95460

Ion	Ratio	Lower	Upper
106	100		
91	211.0	110.8	332.3

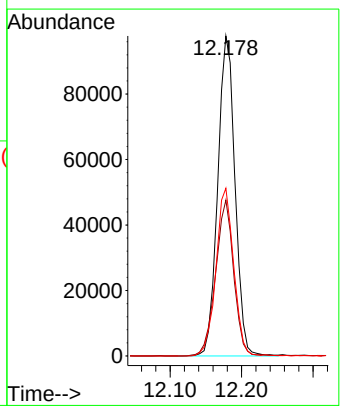


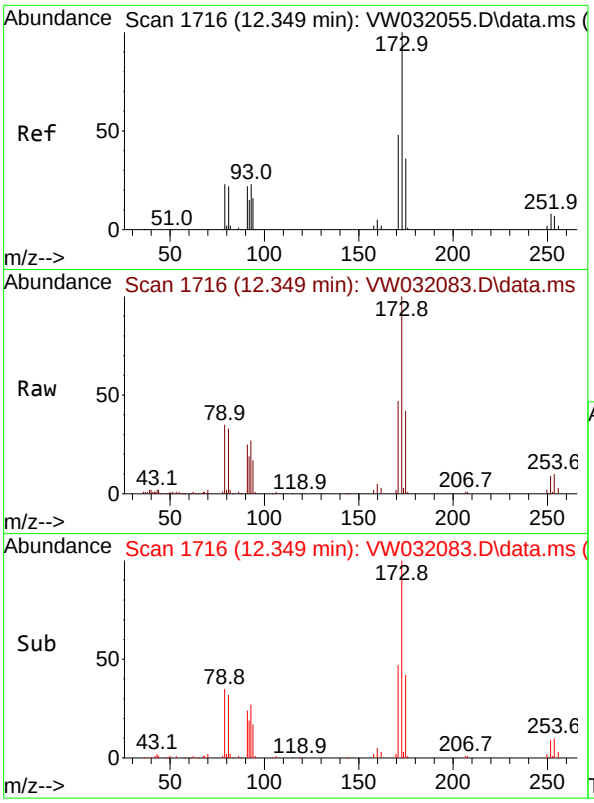


#70
Styrene
Concen: 20.463 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:104 Resp: 163976

Ion	Ratio	Lower	Upper
104	100		
78	51.1	41.2	61.8
103	53.7	43.8	65.8



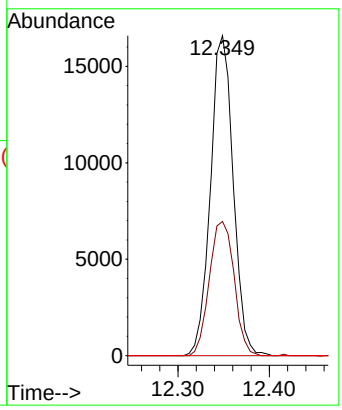


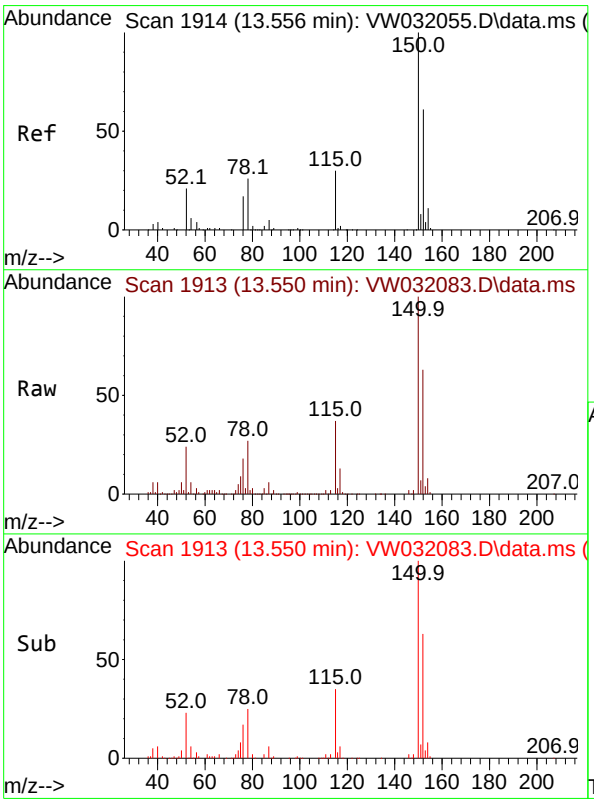
#71
Bromoform
Concen: 21.543 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:173 Resp: 28712

Ion	Ratio	Lower	Upper
173	100		
175	45.7	22.9	68.7
254	0.0	0.0	0.0

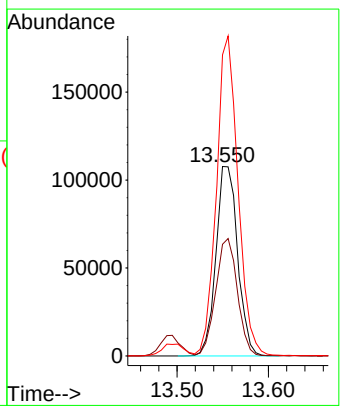


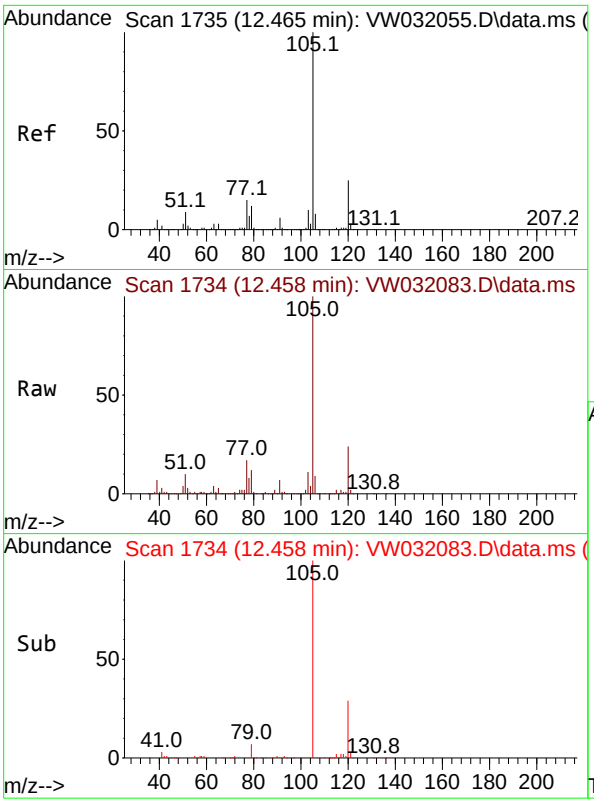


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:152 Resp: 177605

Ion	Ratio	Lower	Upper
152	100		
115	62.3	32.6	97.8
150	167.8	0.0	359.4



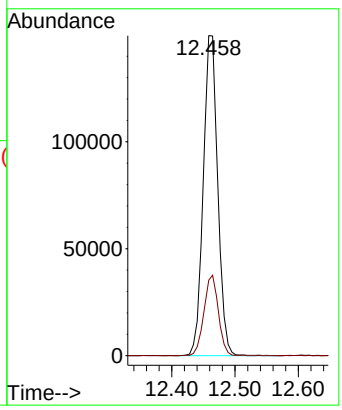


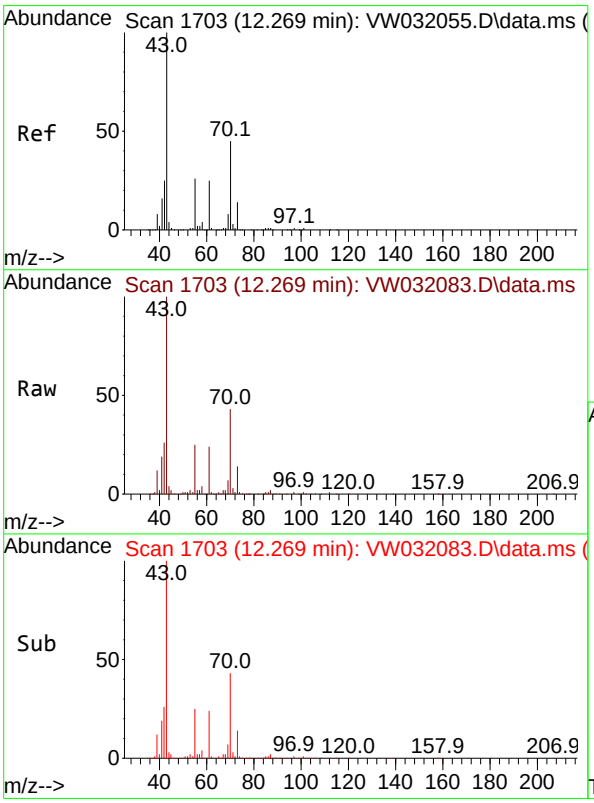
#73
Isopropylbenzene
Concen: 19.223 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:105 Resp: 238599

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.8	38.4

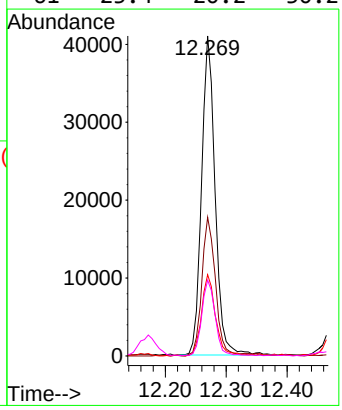


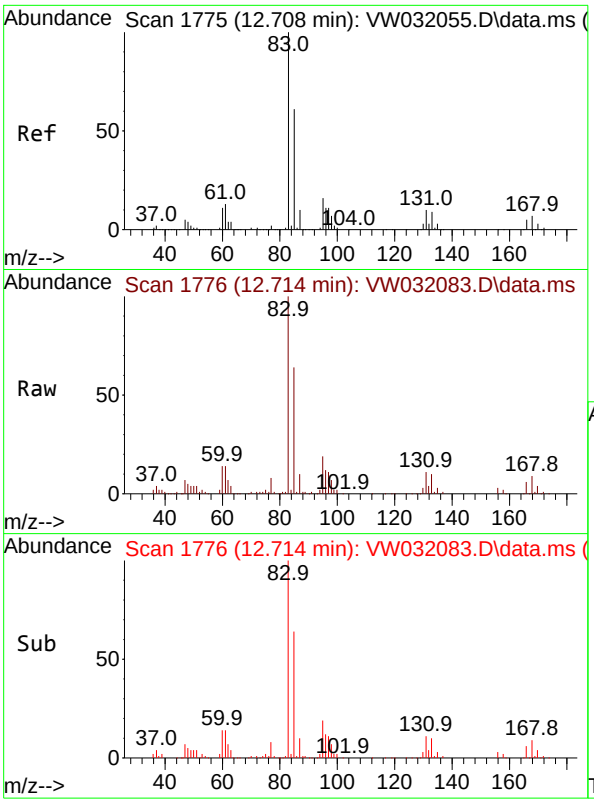


#74
N-amyl acetate
Concen: 17.822 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 43 Resp: 63466

Ion	Ratio	Lower	Upper
43	100		
70	43.4	37.0	55.4
55	26.4	21.1	31.7
61	23.4	20.2	30.2



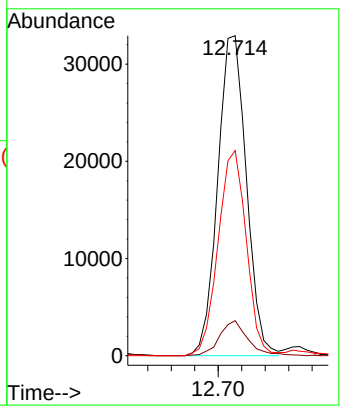


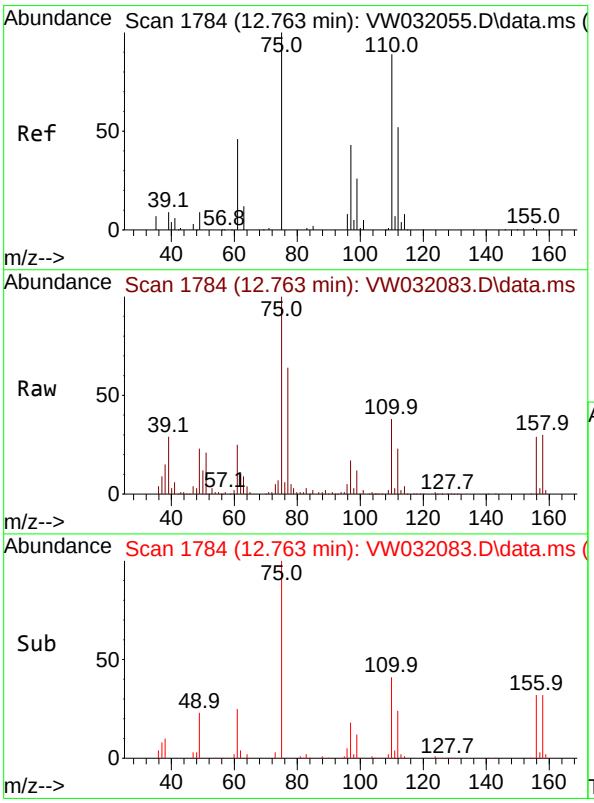
#75
1,1,2,2-Tetrachloroethane
Concen: 18.959 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 83 Resp: 55872

Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.1	15.4
85	63.0	32.2	96.6

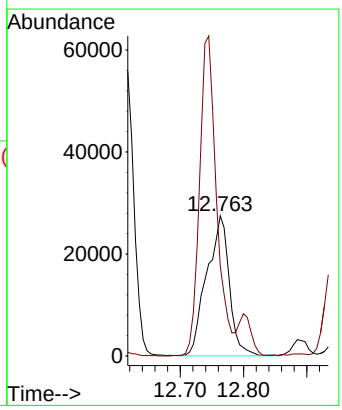


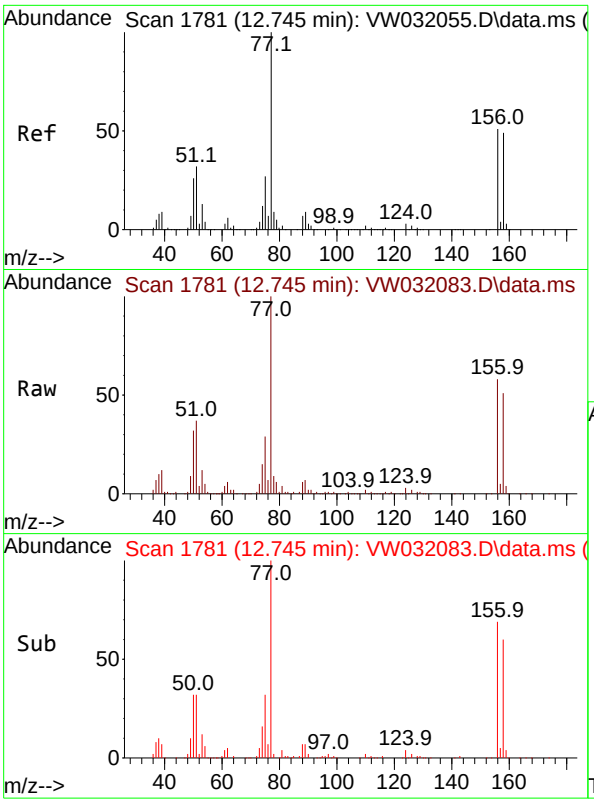


#76
1,2,3-Trichloropropane
Concen: 28.190 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 67951

Ion	Ratio	Lower	Upper
75	100		
77	172.6	123.5	370.5



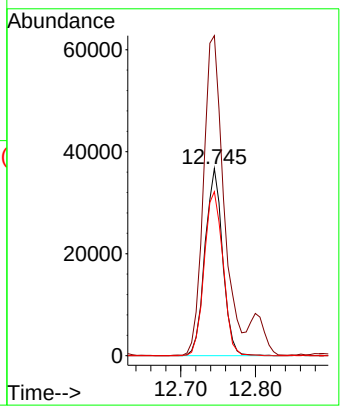


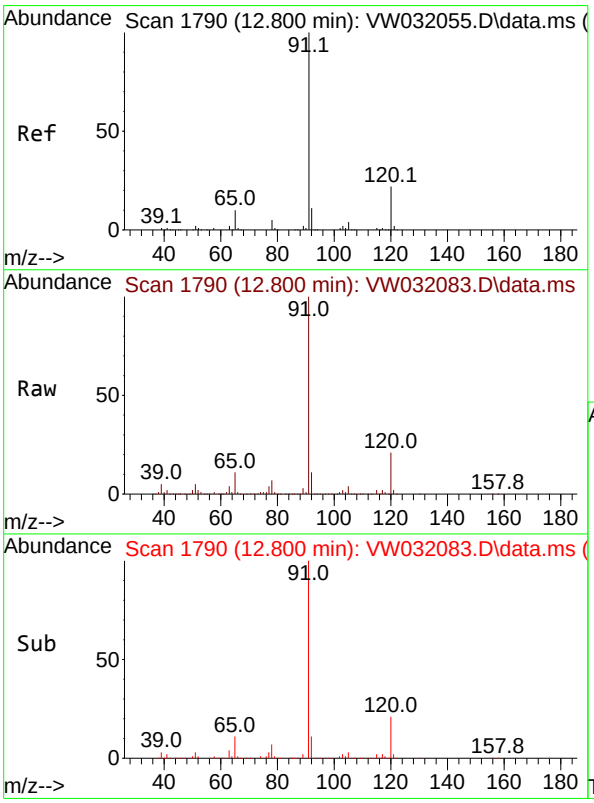
#77
Bromobenzene
Concen: 20.310 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:156 Resp: 60209

Ion	Ratio	Lower	Upper
156	100		
77	194.8	108.7	326.3
158	93.1	48.3	144.9

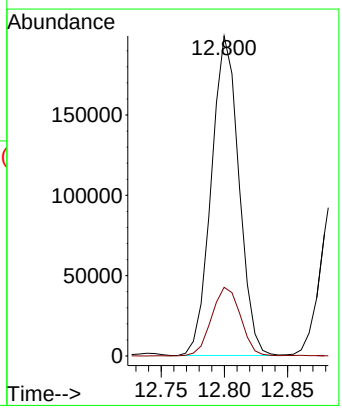


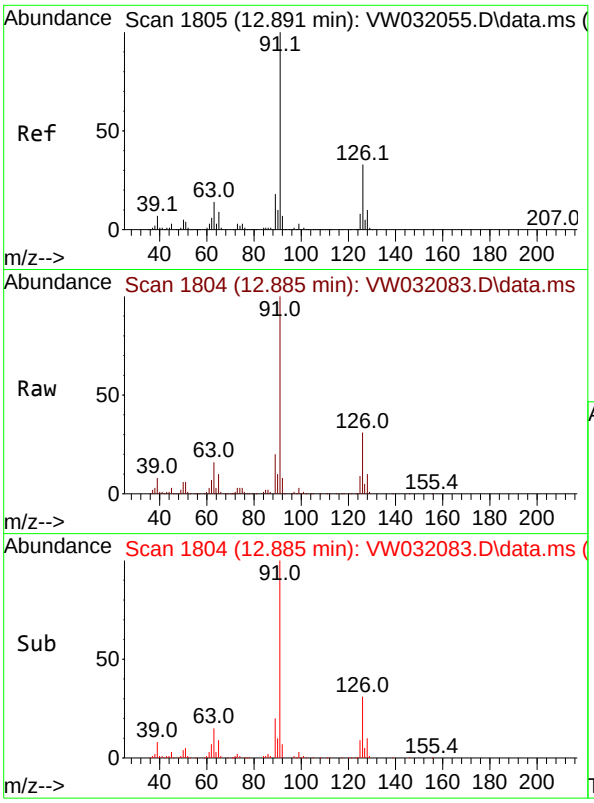


#78
n-propylbenzene
Concen: 19.766 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 302042

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



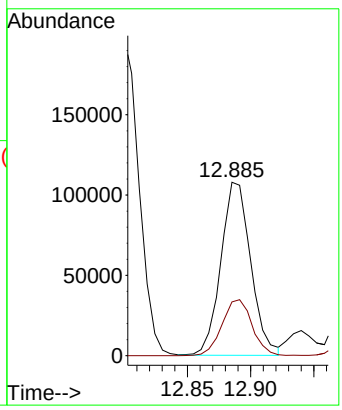


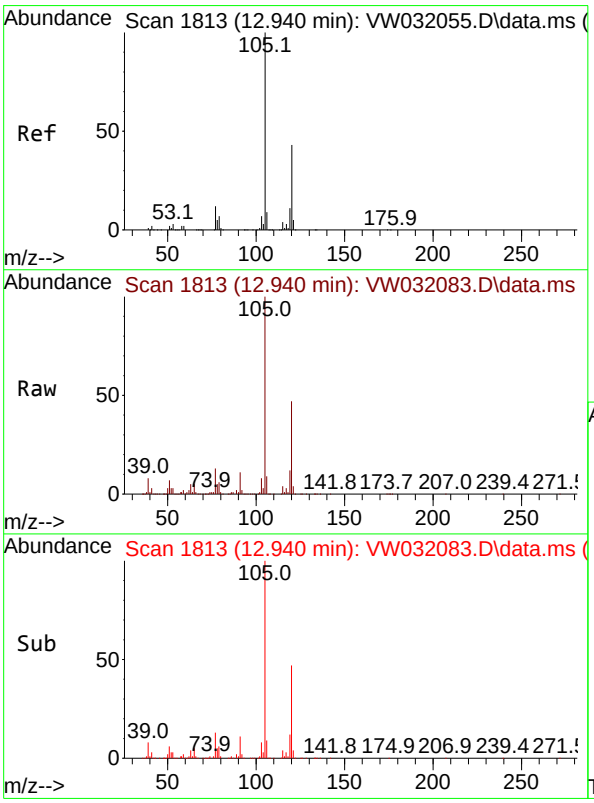
#79
2-Chlorotoluene
Concen: 18.805 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 91 Resp: 177356

Ion	Ratio	Lower	Upper
91	100		
126	32.7	15.9	47.7

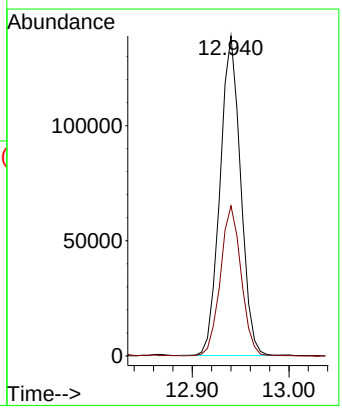


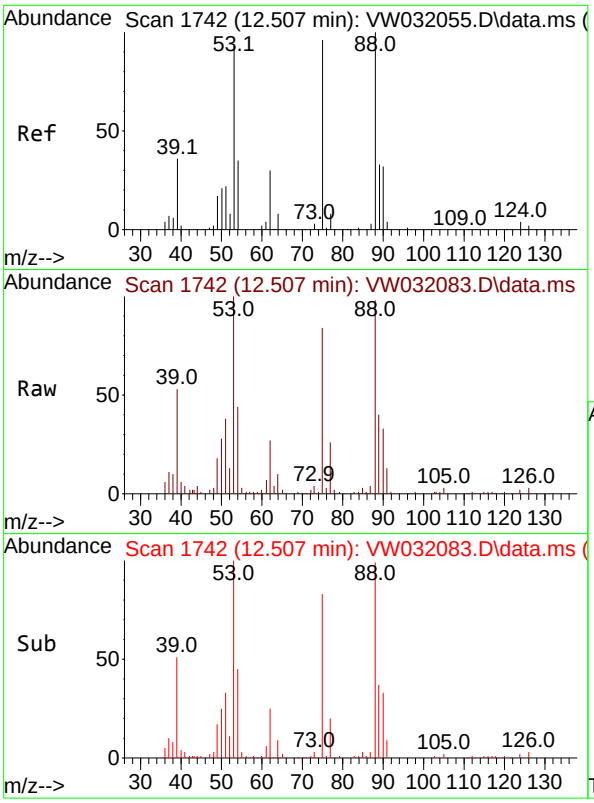


#80
1,3,5-Trimethylbenzene
Concen: 19.461 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:105 Resp: 205070

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.4	70.0



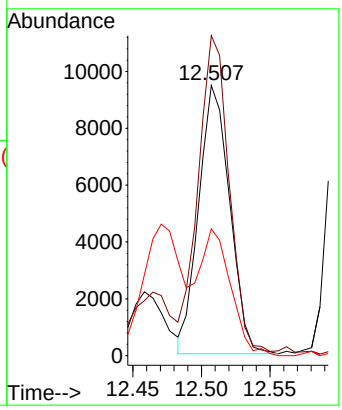


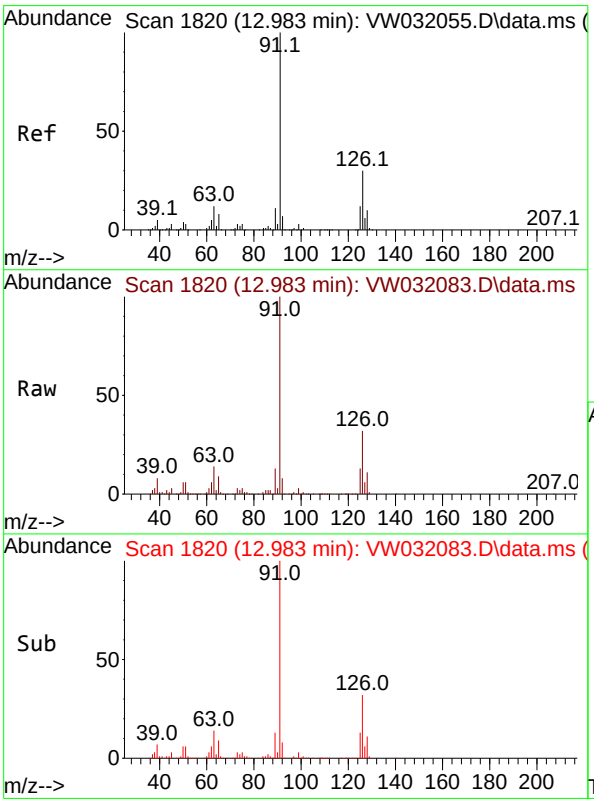
#81
trans-1,4-Dichloro-2-butene
Concen: 15.953 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 75 Resp: 14854

Ion	Ratio	Lower	Upper
75	100		
53	116.8	81.0	121.6
89	49.6	37.3	55.9

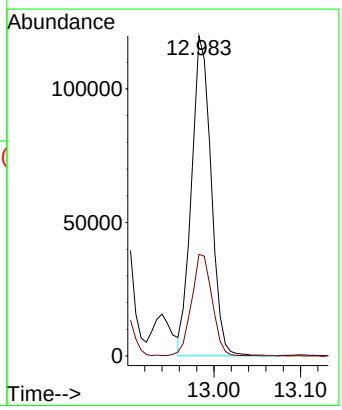


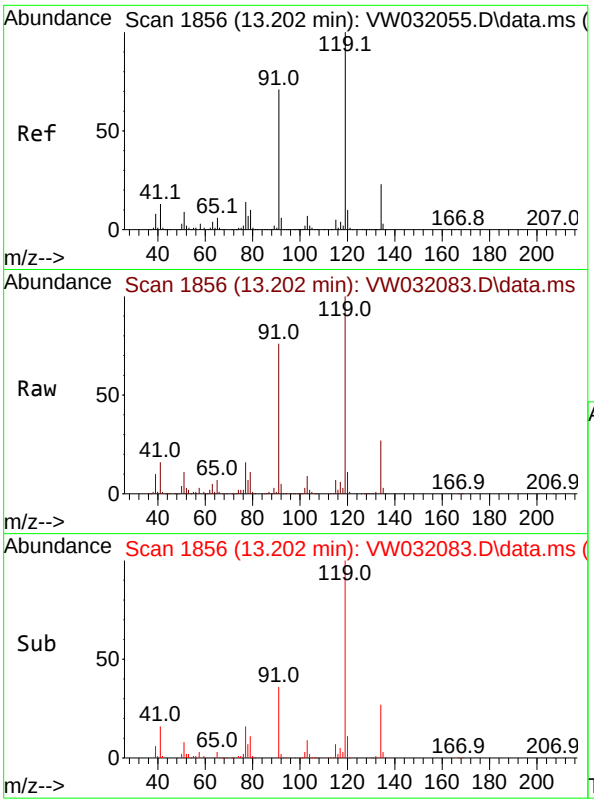


#82
4-Chlorotoluene
Concen: 18.722 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 91 Resp: 187599

Ion	Ratio	Lower	Upper
91	100		
126	33.4	15.5	46.5



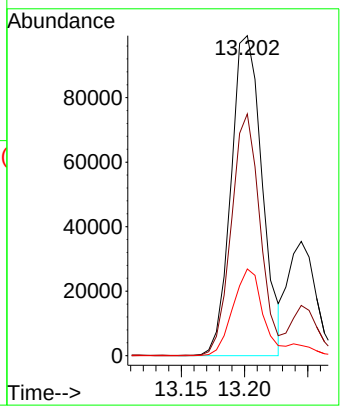


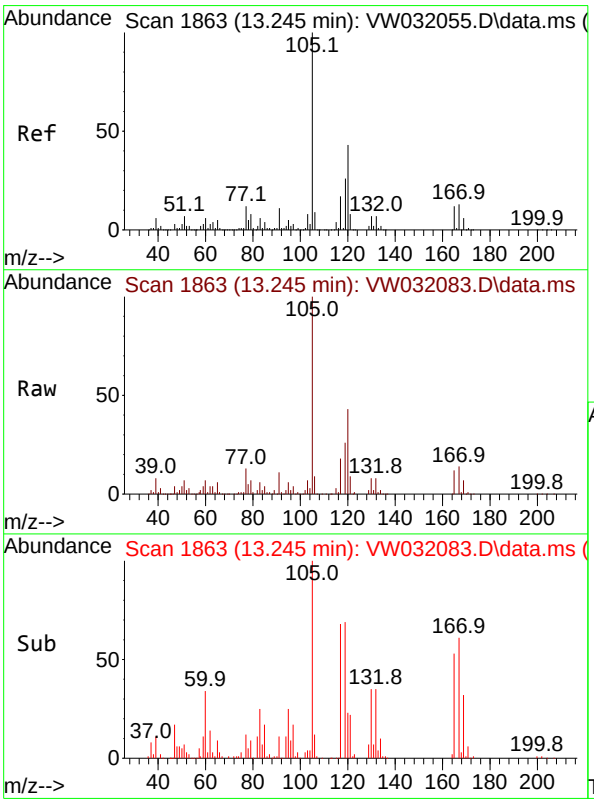
#83
tert-Butylbenzene
Concen: 19.459 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:119 Resp: 170175

Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.3	105.9
134	26.0	12.1	36.3

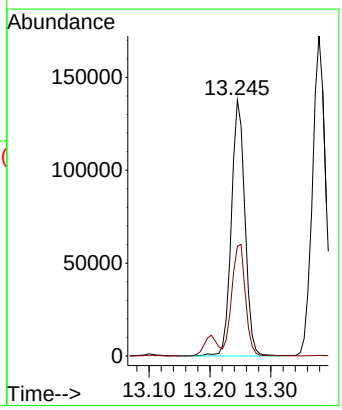


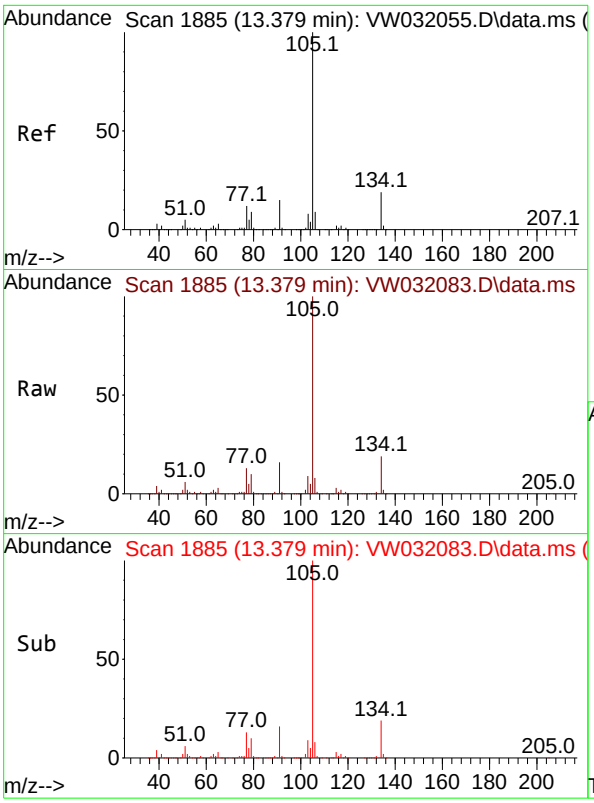


#84
1,2,4-Trimethylbenzene
Concen: 19.825 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:105 Resp: 212657

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.6	64.8



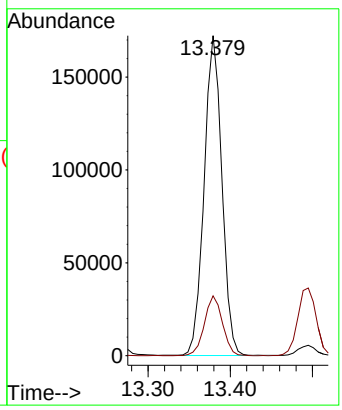


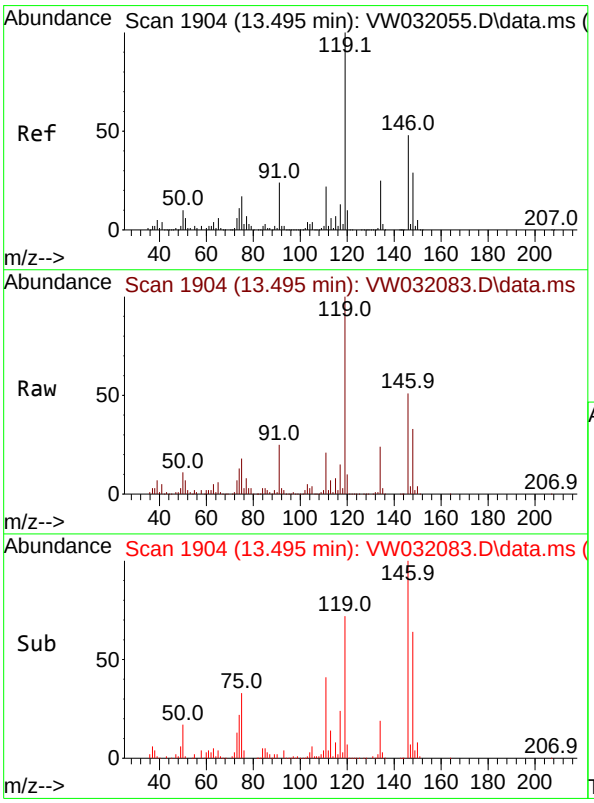
#85
sec-Butylbenzene
Concen: 19.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:105 Resp: 258452

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.9	29.7

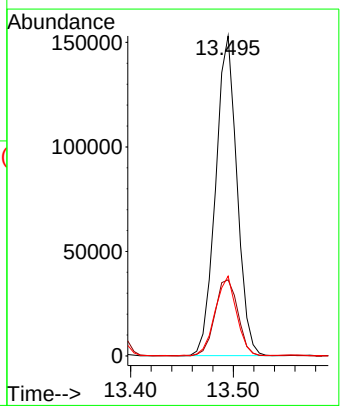


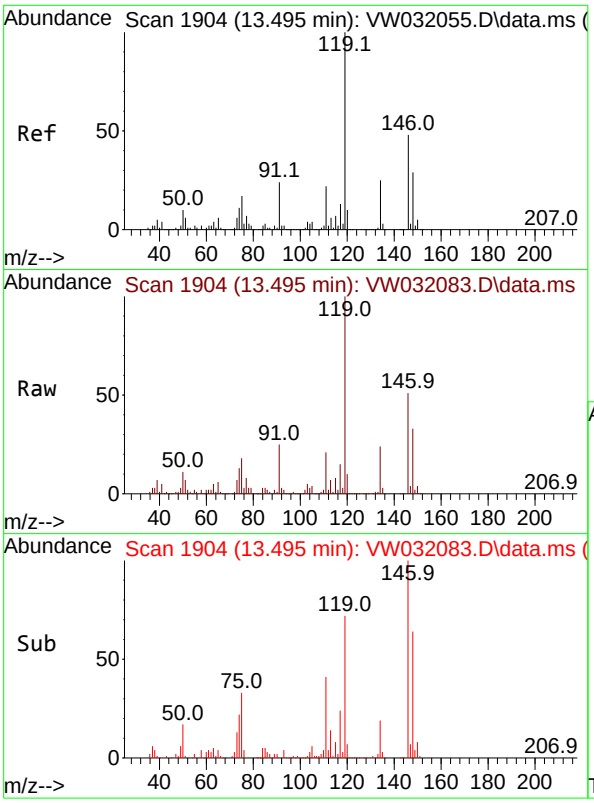


#86
p-Isopropyltoluene
Concen: 19.978 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:119 Resp: 220215

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.4	37.0
91	25.0	12.1	36.3



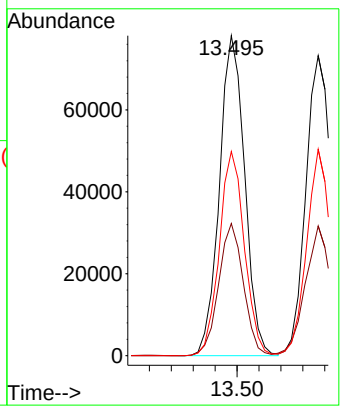


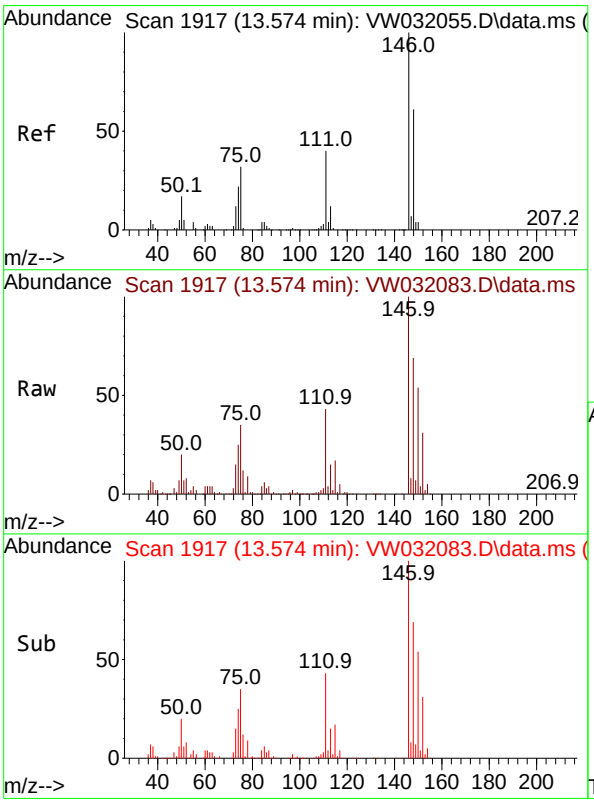
#87
1,3-Dichlorobenzene
Concen: 21.202 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:146 Resp: 125068

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.2	63.6
148	63.3	30.3	90.8

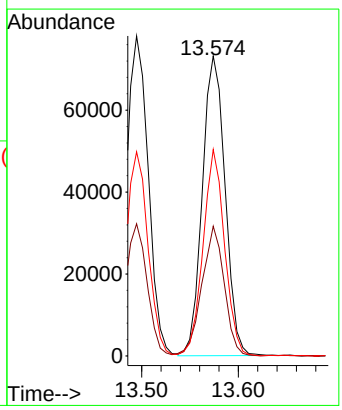


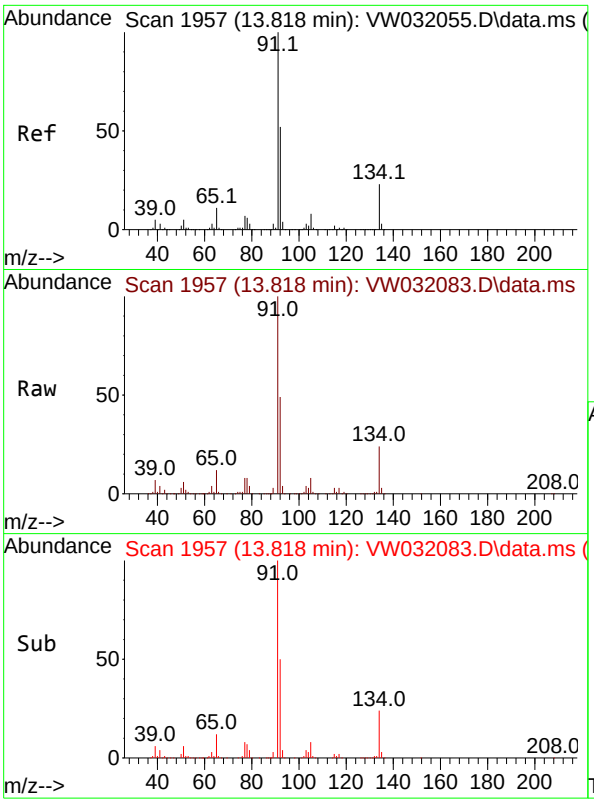


#88
1,4-Dichlorobenzene
Concen: 20.094 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:146 Resp: 119783

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.6
148	65.0	32.0	96.2



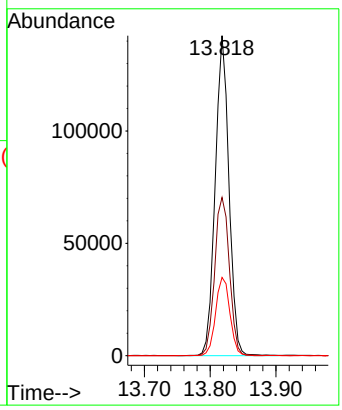


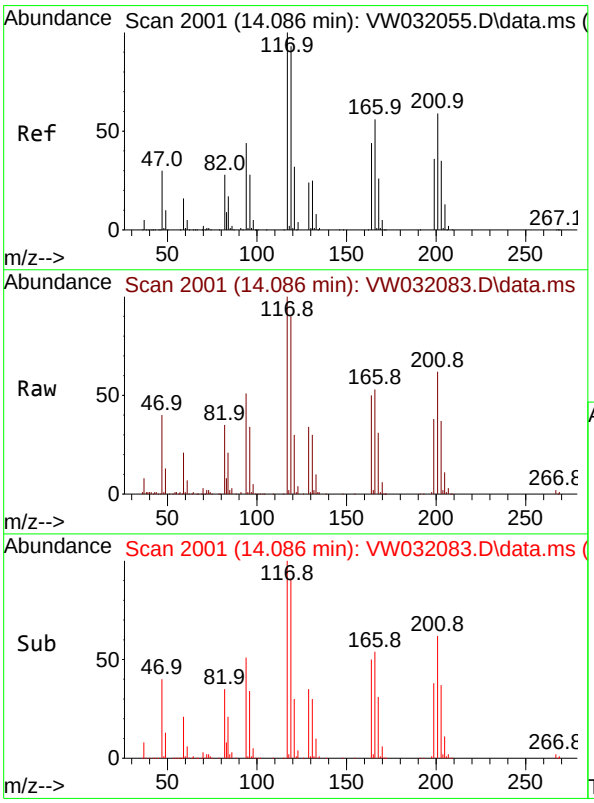
#89
n-Butylbenzene
Concen: 19.344 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion: 91 Resp: 207148

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.7	80.1
134	25.5	12.0	36.1

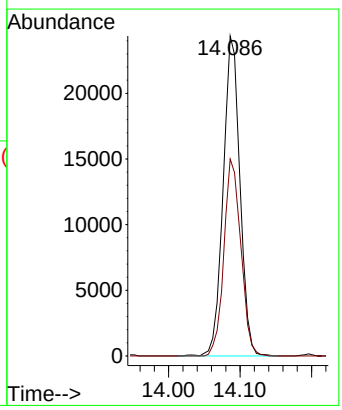


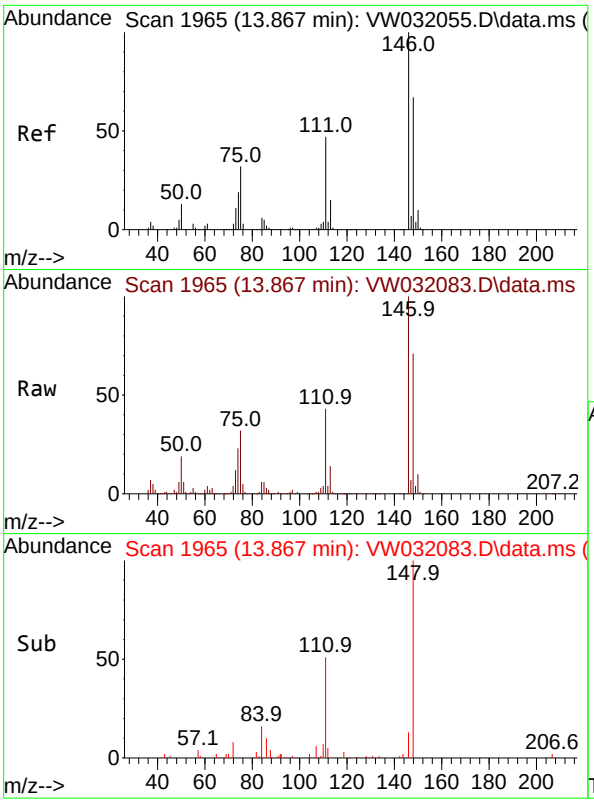


#90
Hexachloroethane
Concen: 19.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:117 Resp: 39591

Ion	Ratio	Lower	Upper
117	100		
201	62.3	30.9	92.5



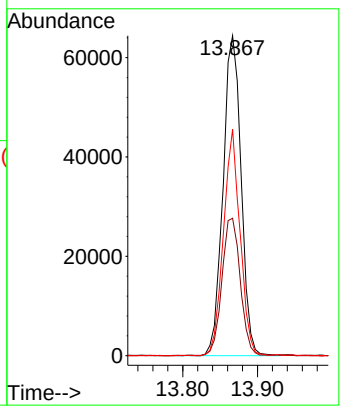


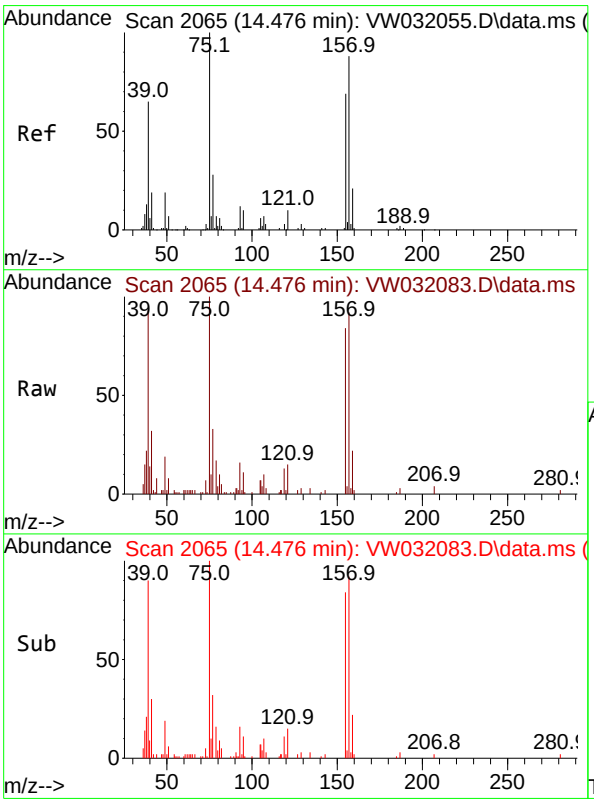
#91
1,2-Dichlorobenzene
Concen: 20.266 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:146 Resp: 108294

Ion	Ratio	Lower	Upper
146	100		
111	43.3	23.1	69.3
148	65.1	32.9	98.6

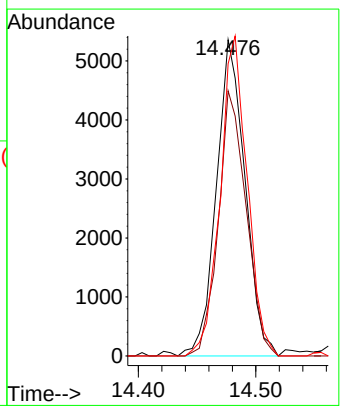


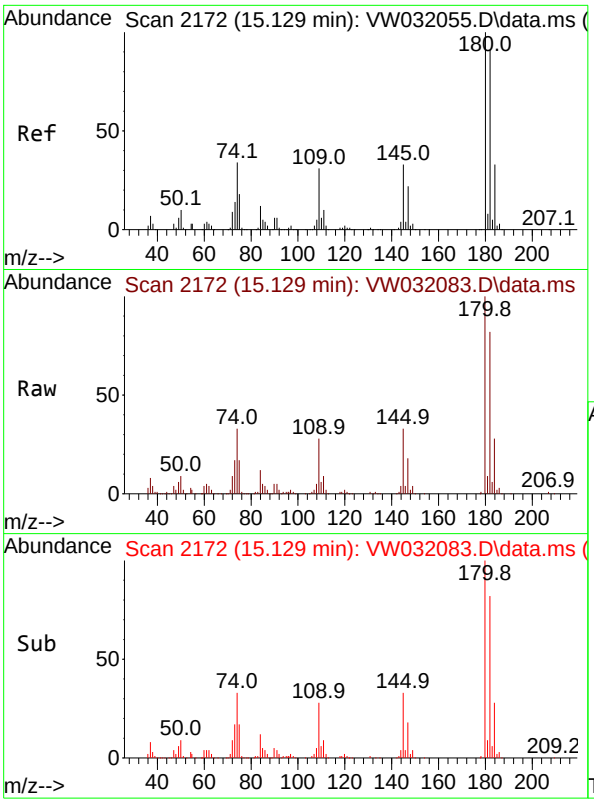


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.310 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion: 75 Resp: 9069

Ion	Ratio	Lower	Upper
75	100		
155	81.2	35.2	105.6
157	95.9	47.5	142.6



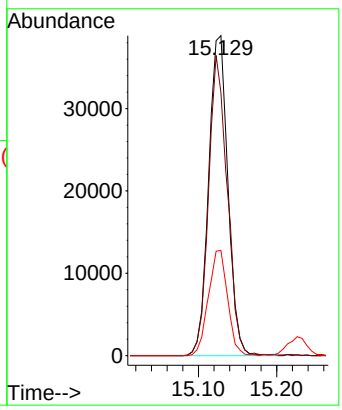


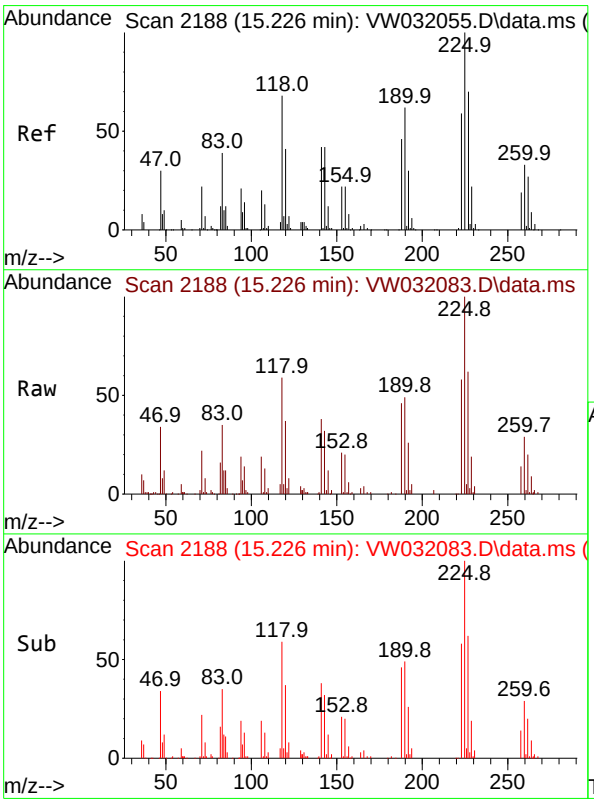
#93
1,2,4-Trichlorobenzene
Concen: 20.701 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:180 Resp: 66171

Ion	Ratio	Lower	Upper
180	100		
182	91.6	49.0	147.0
145	32.9	17.3	51.9

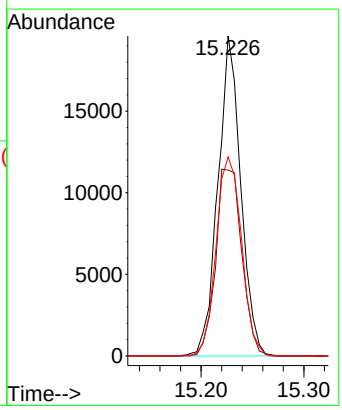


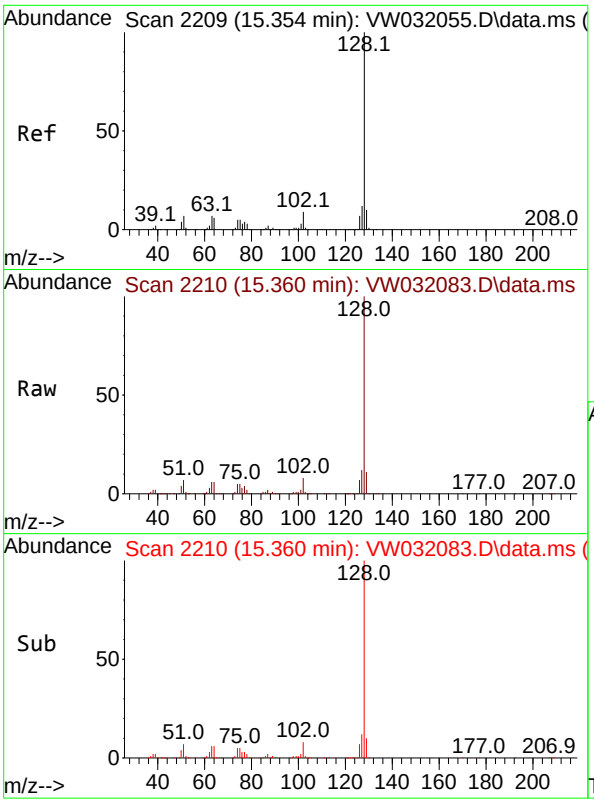


#94
Hexachlorobutadiene
Concen: 21.148 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:225 Resp: 30219

Ion	Ratio	Lower	Upper
225	100		
223	67.0	31.8	95.3
227	69.4	33.5	100.5



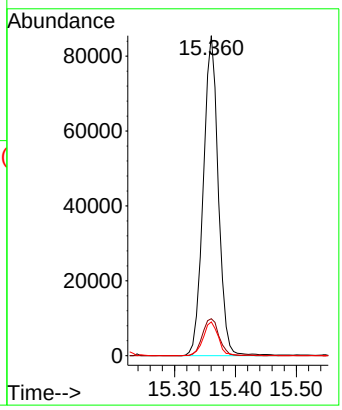


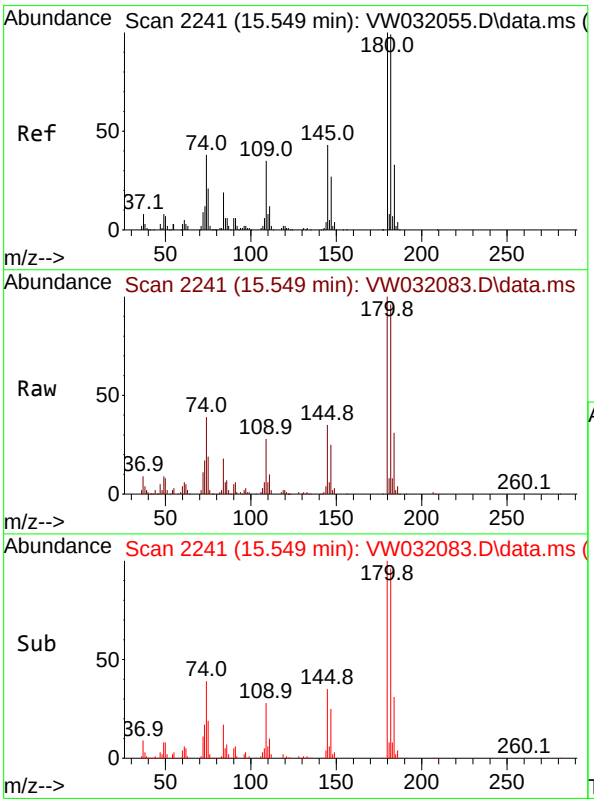
#95
Naphthalene
Concen: 18.719 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Instrument :
MSVOA_W
ClientSampleId :
VW0814SBSD01

Tgt Ion:128 Resp: 146617

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.7	8.2	12.4

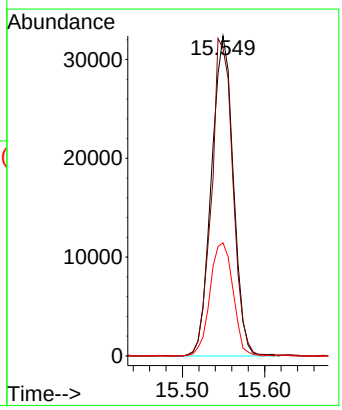




#96
1,2,3-Trichlorobenzene
Concen: 20.574 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032083.D
Acq: 14 Aug 2025 10:58

Tgt Ion:180 Resp: 59840

Ion	Ratio	Lower	Upper
180	100		
182	97.2	46.0	138.0
145	37.2	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Quant Time: Aug 18 03:49:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	150560	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	312304	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	317114	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	149119	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	126653	58.164	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 116.320%			
35) Dibromofluoromethane	7.904	113	111867	55.445	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.900%			
50) Toluene-d8	10.325	98	379321	50.830	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.660%			
62) 4-Bromofluorobenzene	12.617	95	141794	51.561	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.120%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.234	59	490	3.475	ug/l #	71
13) Acrolein	3.935	56	260	1.157	ug/l #	39
16) Acetone	4.161	43	20268	40.202	ug/l #	87
17) Carbon Disulfide	4.423	76	14117	2.880	ug/l	97
18) Methyl Acetate	4.716	43	1775	1.113	ug/l #	83
20) Methylene Chloride	4.960	84	13643	5.853	ug/l	95
25) 2-Butanone	7.203	43	3815	5.324	ug/l #	86
31) Cyclohexane	7.959	56	4583	1.477	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	14746	5.184	ug/l #	51
38) Carbon Tetrachloride	7.959	117	17098	6.229	ug/l #	21
49) 1,4-Dioxane	9.355	88	42	2.356	ug/l #	69
52) Toluene	10.392	92	6167	1.107	ug/l	96
76) 1,2,3-Trichloropropane	12.617	75	80941	39.993	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	80941	103.537	ug/l #	9
86) p-Isopropyltoluene	13.495	119	9717	1.050	ug/l	96

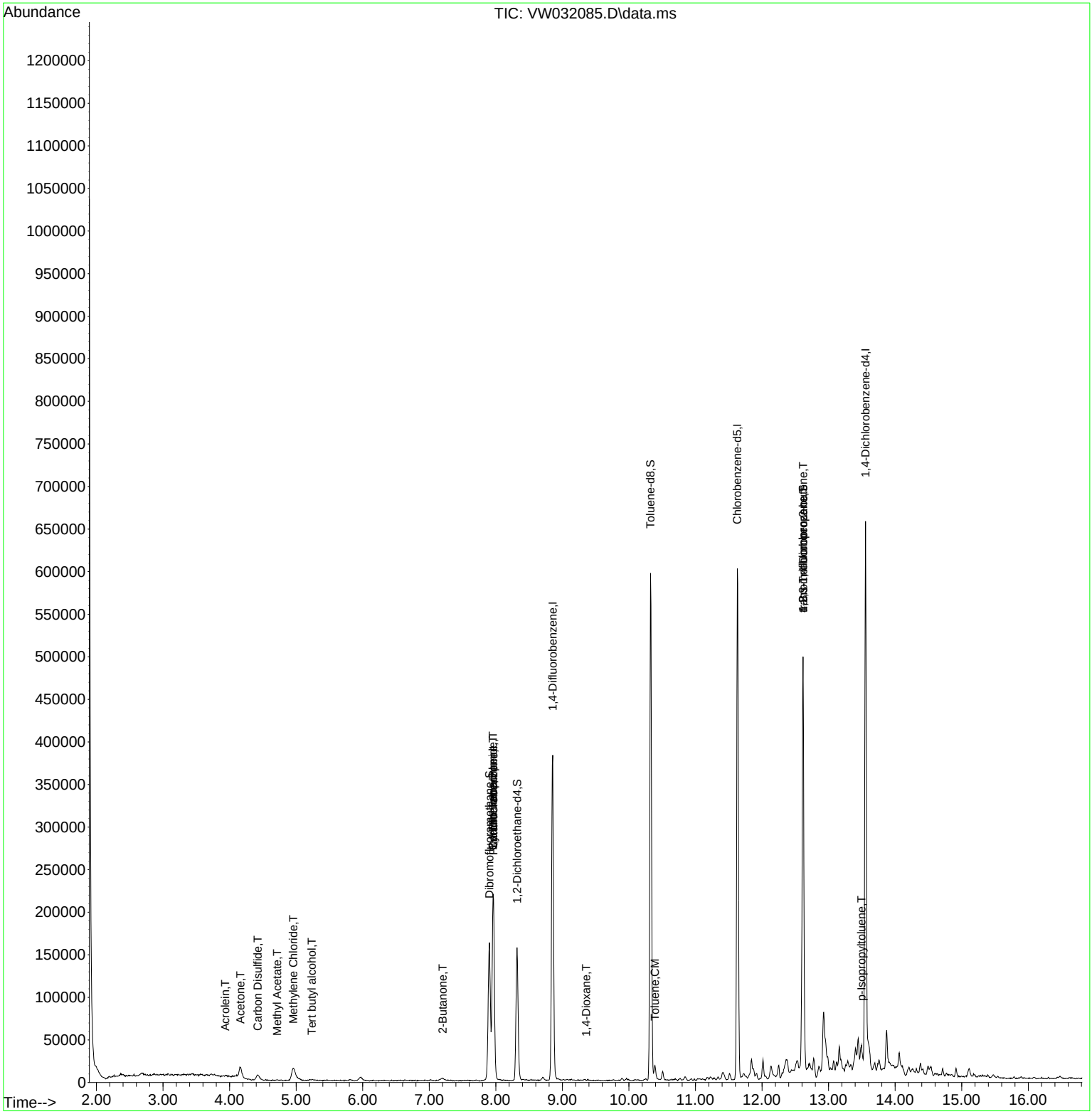
(#) = qualifier out of range (m) = manual integration (+) = signals summed

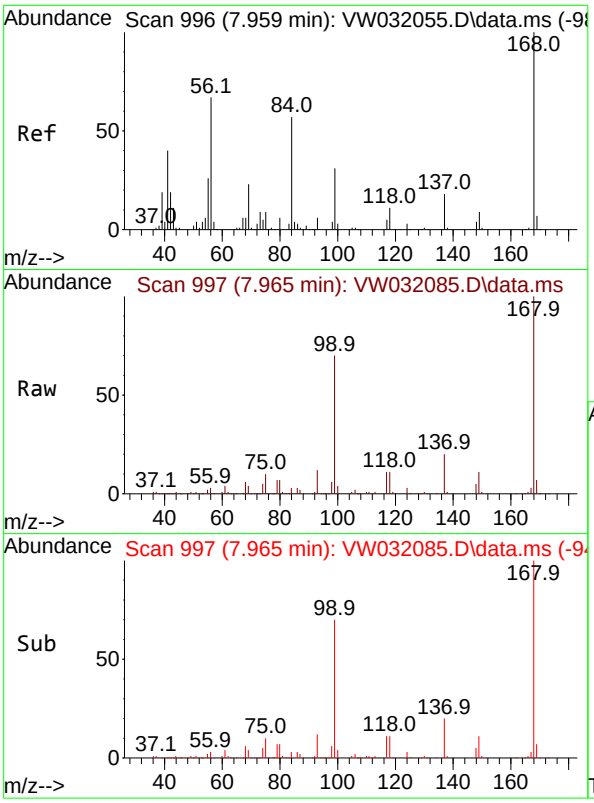
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032085.D
Acq On : 14 Aug 2025 12:02
Operator : SY/MD
Sample : Q2820-02
Misc : 7.92g/5mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Quant Time: Aug 18 03:49:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



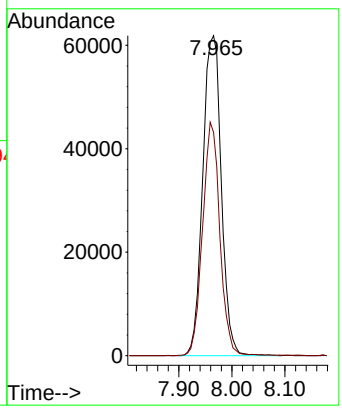


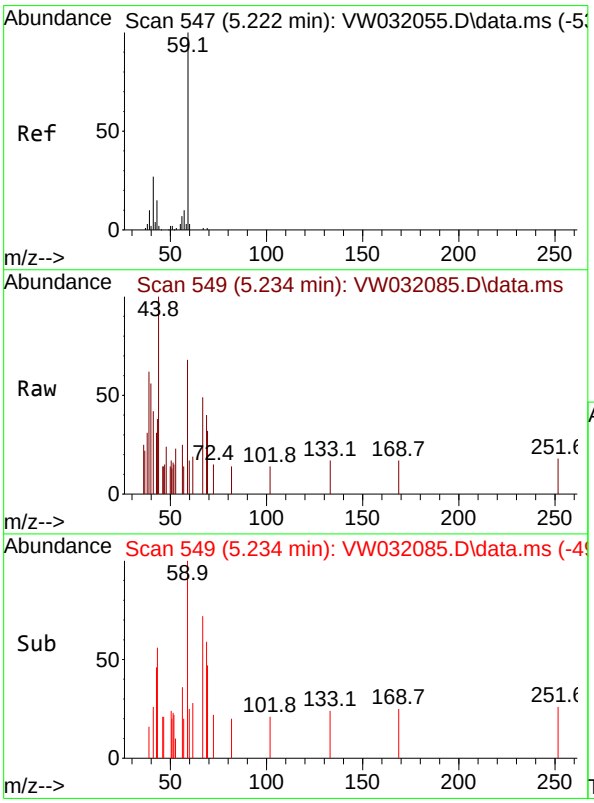
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion:168 Resp: 150560

Ion	Ratio	Lower	Upper
168	100		
99	69.7	56.0	84.0

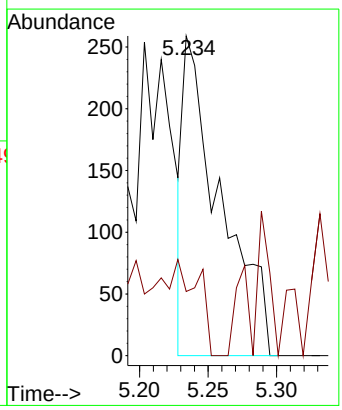


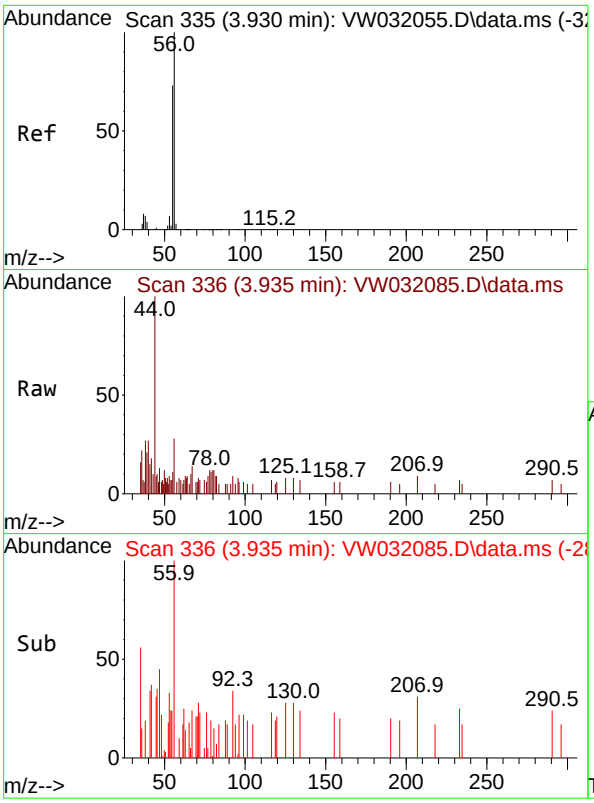


#11
Tert butyl alcohol
Concen: 3.475 ug/l
RT: 5.234 min Scan# 549
Delta R.T. 0.012 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 59 Resp: 490

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.7	13.1#



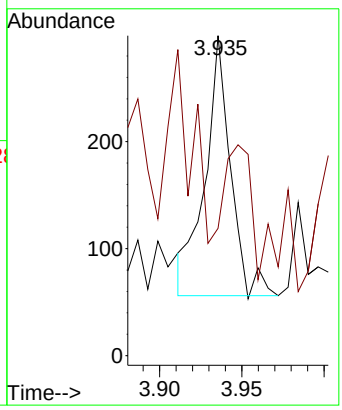


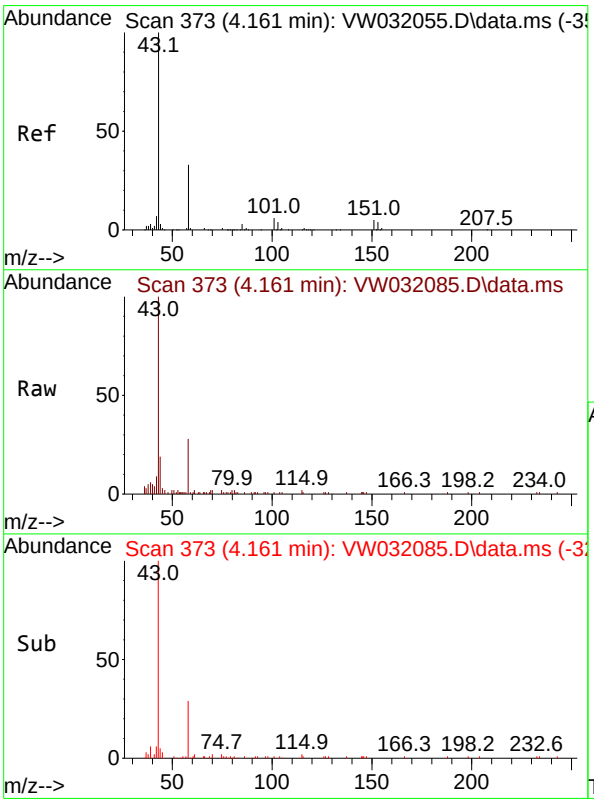
#13
Acrolein
Concen: 1.157 ug/l
RT: 3.935 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 56 Resp: 260

Ion	Ratio	Lower	Upper
56	100		
55	118.8	55.4	83.2#

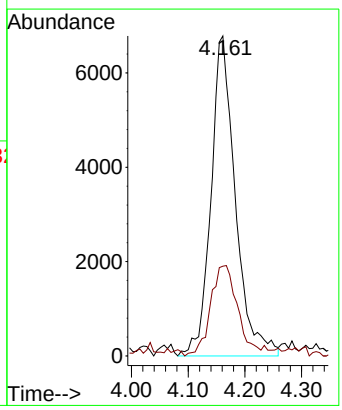


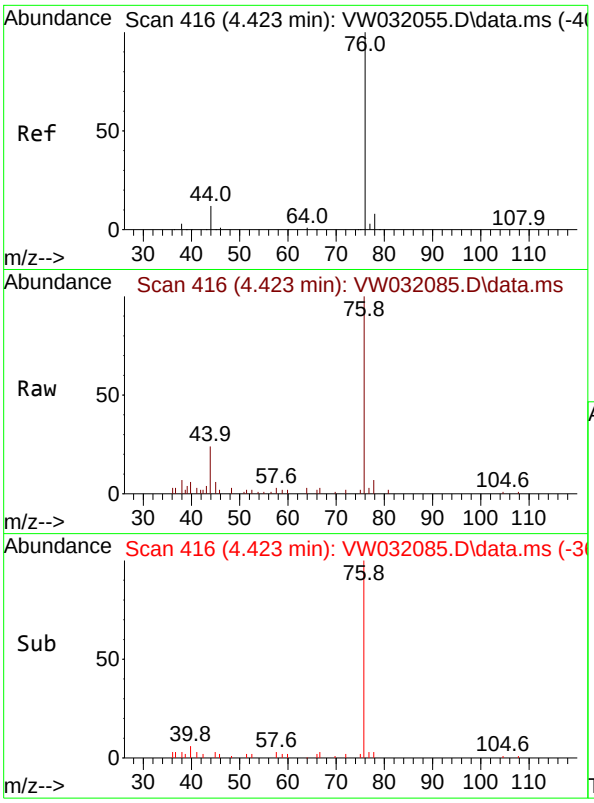


#16
Acetone
Concen: 40.202 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 43 Resp: 20268

Ion	Ratio	Lower	Upper
43	100		
58	26.1	26.6	39.8#



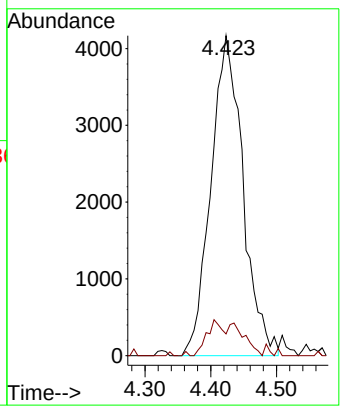


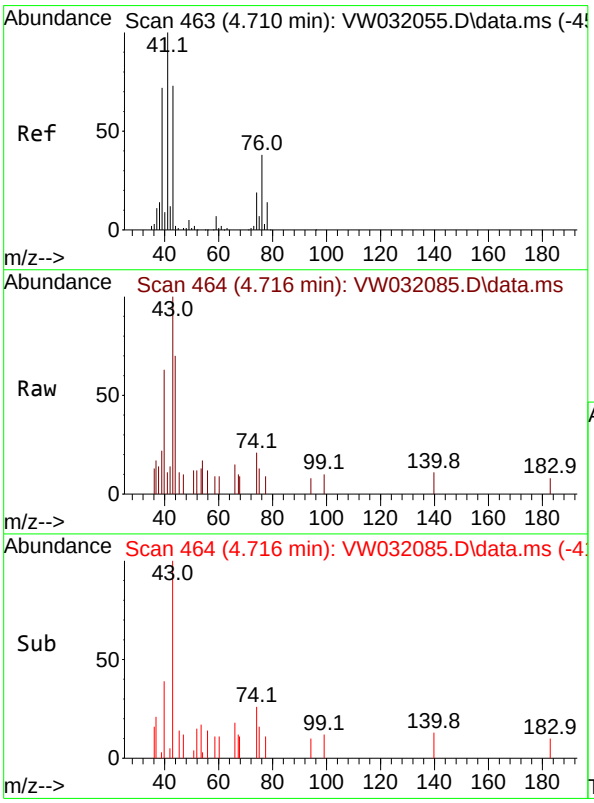
#17
Carbon Disulfide
Concen: 2.880 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 76 Resp: 14117

Ion	Ratio	Lower	Upper
76	100		
78	6.8	6.4	9.6

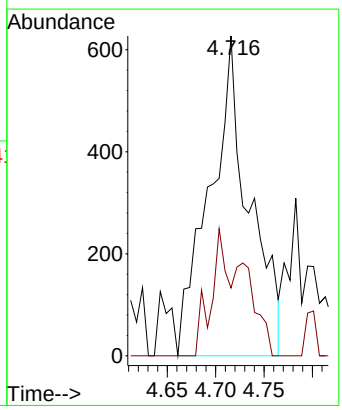


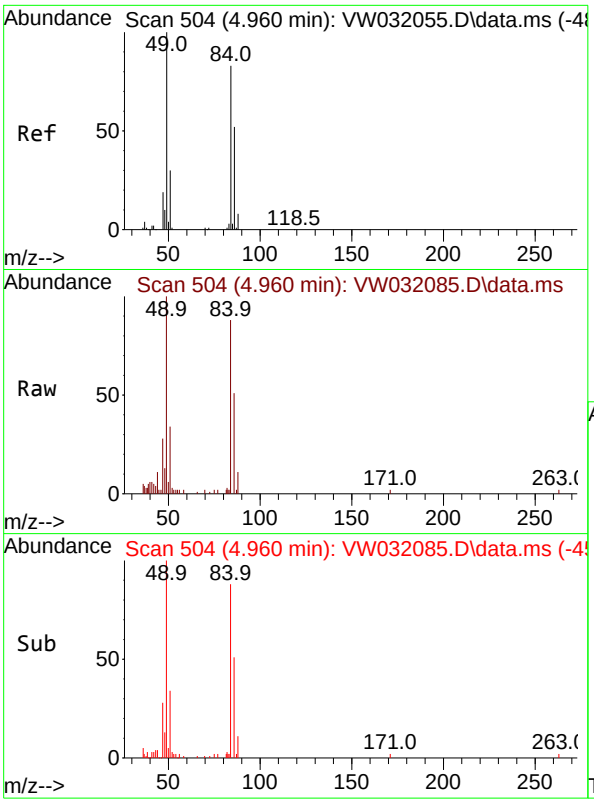


#18
Methyl Acetate
Concen: 1.113 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 43 Resp: 1775

Ion	Ratio	Lower	Upper
43	100		
74	17.4	20.6	31.0#



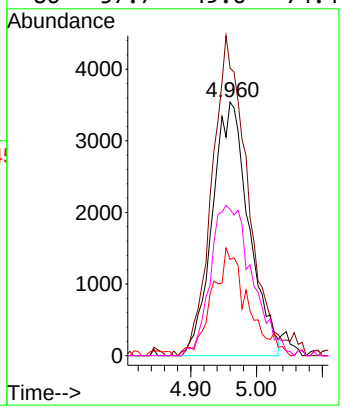


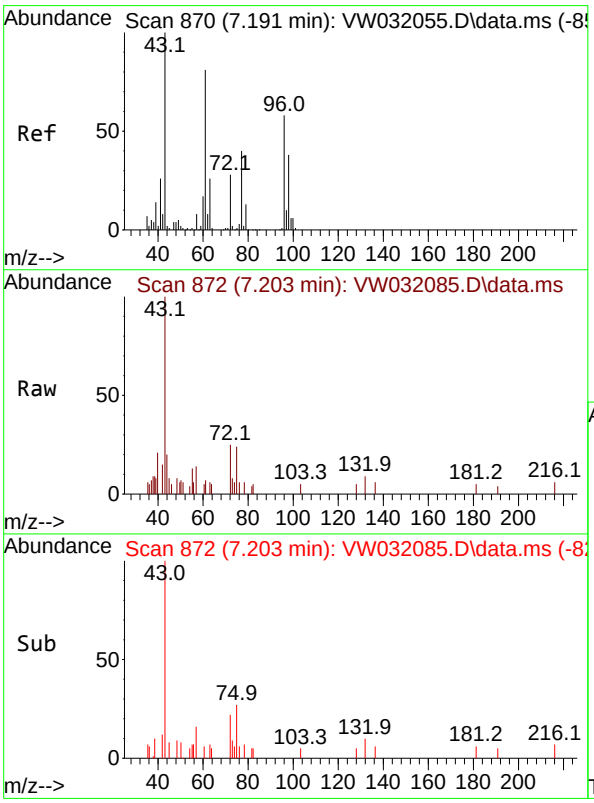
#20
Methylene Chloride
Concen: 5.853 ug/l
RT: 4.960 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 84 Resp: 13643

Ion	Ratio	Lower	Upper
84	100		
49	113.4	95.9	143.9
51	38.0	28.6	43.0
86	57.7	49.6	74.4

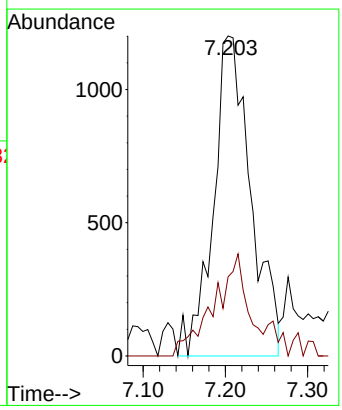


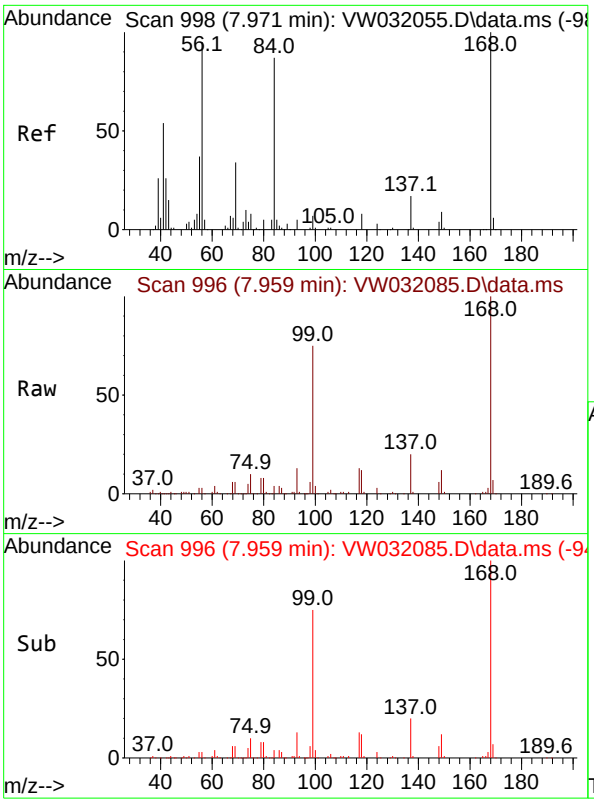


#25
2-Butanone
Concen: 5.324 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 43 Resp: 3815

Ion	Ratio	Lower	Upper
43	100		
72	20.5	22.3	33.5#



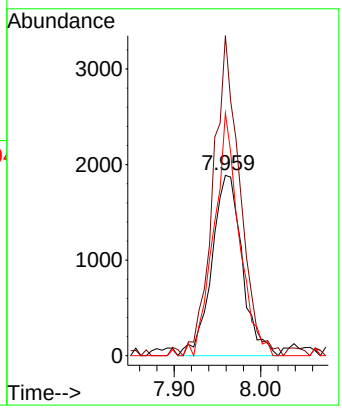


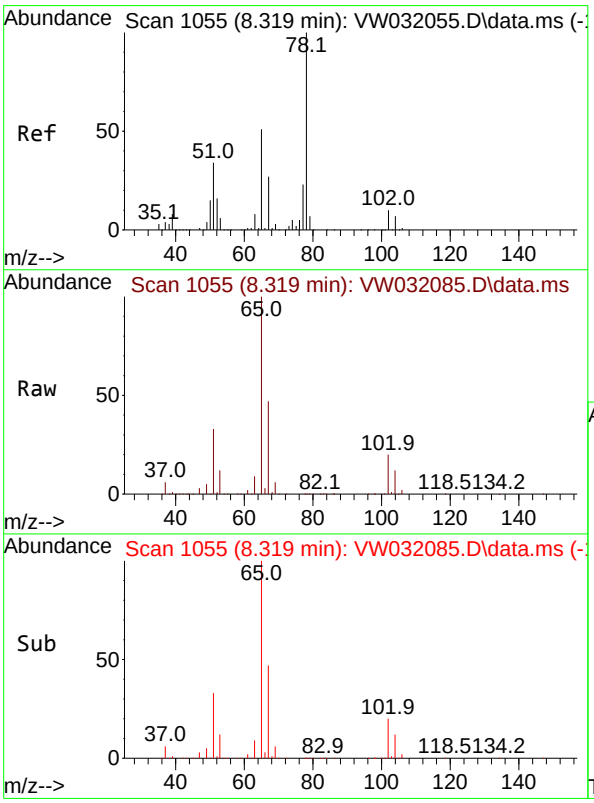
#31
Cyclohexane
Concen: 1.477 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 56 Resp: 4583

Ion	Ratio	Lower	Upper
56	100		
69	174.0	28.6	42.8#
84	134.4	73.0	109.4#

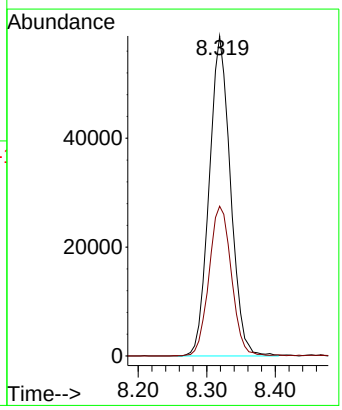


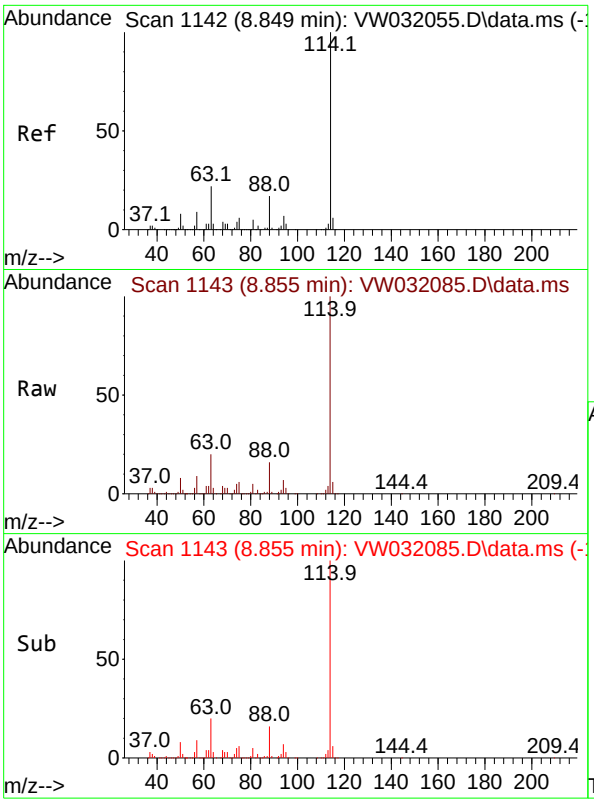


#33
1,2-Dichloroethane-d4
Concen: 58.164 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 65 Resp: 126653

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	102.4



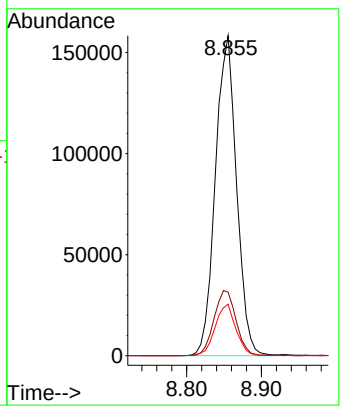


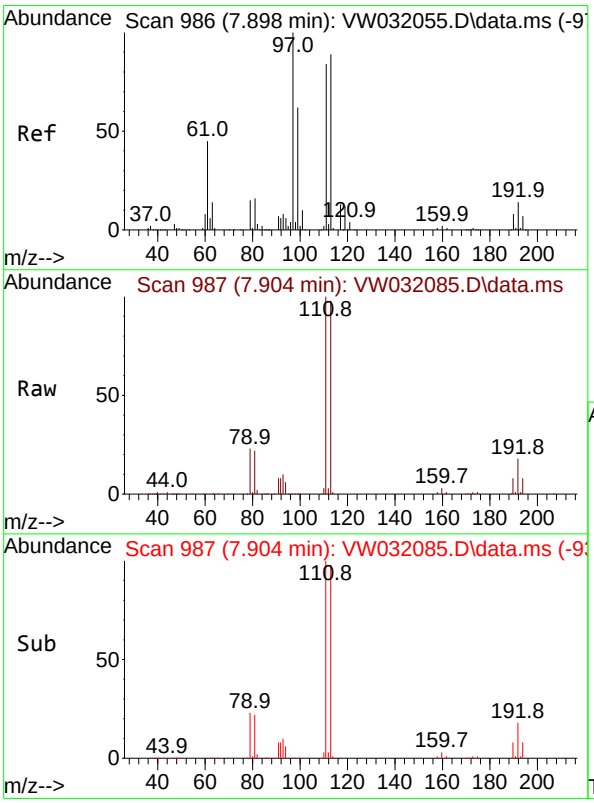
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion:114 Resp: 312304

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	43.0
88	16.1	0.0	33.8

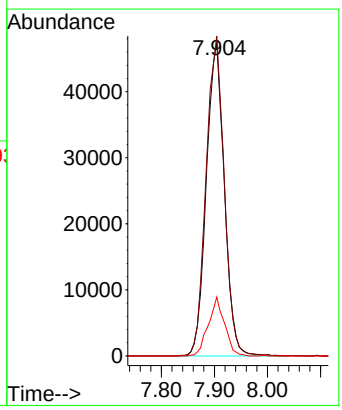


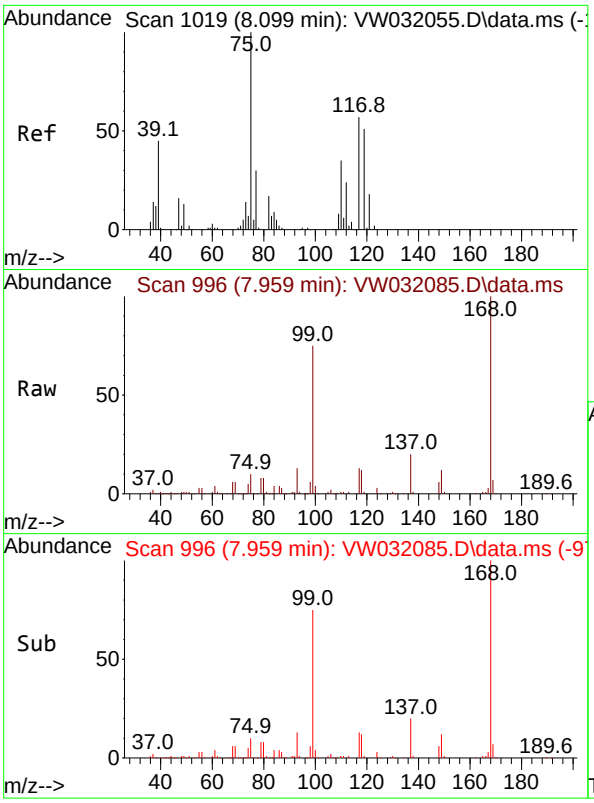


#35
Dibromofluoromethane
Concen: 55.445 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:113 Resp: 111867

Ion	Ratio	Lower	Upper
113	100		
111	103.5	80.1	120.1
192	17.0	13.1	19.7



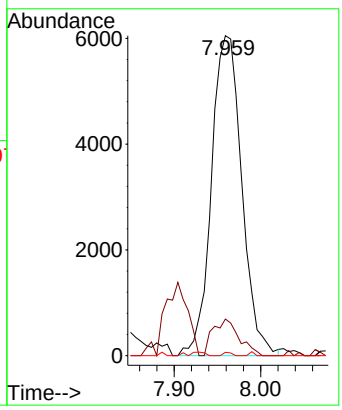


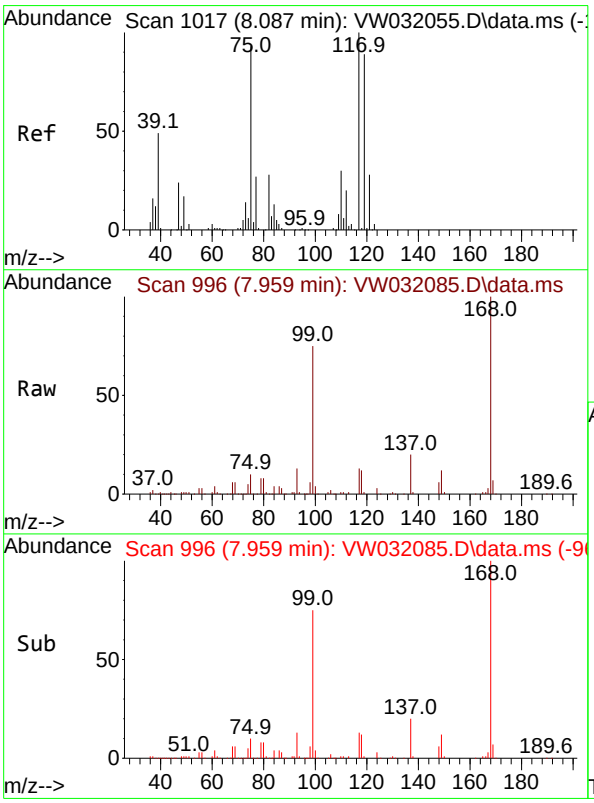
#36
1,1-Dichloropropene
Concen: 5.184 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.140 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 75 Resp: 14746

Ion	Ratio	Lower	Upper
75	100		
110	9.9	17.4	52.2#
77	0.3	24.7	37.1#

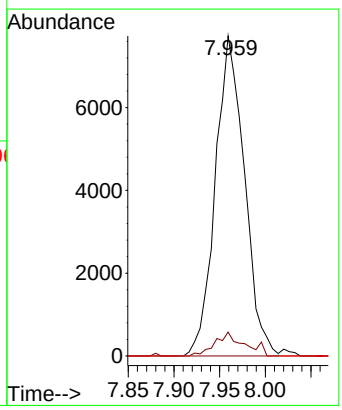


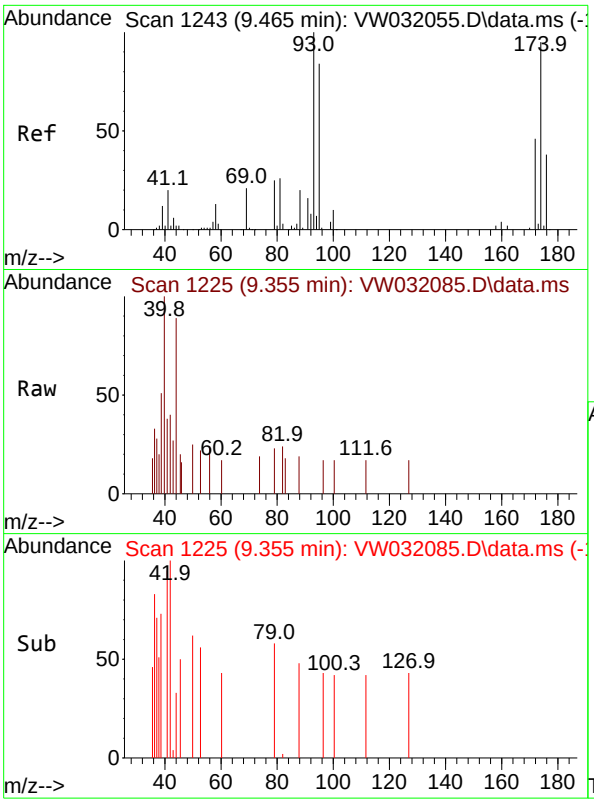


#38
Carbon Tetrachloride
Concen: 6.229 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.128 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:117 Resp: 17098

Ion	Ratio	Lower	Upper
117	100		
119	7.5	71.4	107.2#
121	0.0	22.3	33.5#



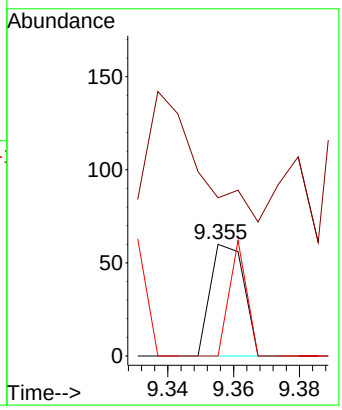


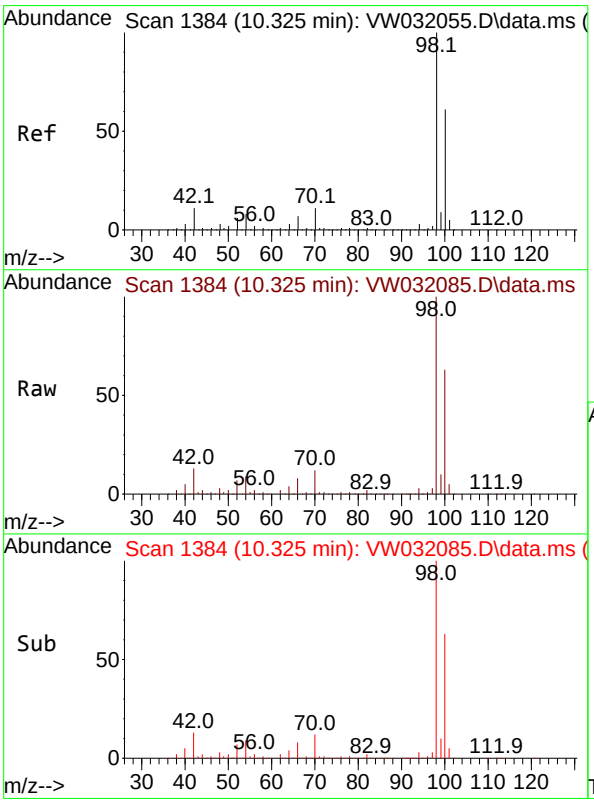
#49
1,4-Dioxane
Concen: 2.356 ug/l
RT: 9.355 min Scan# 1
Delta R.T. -0.110 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 88 Resp: 42

Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.6	30.8#
58	54.8	60.4	90.6#

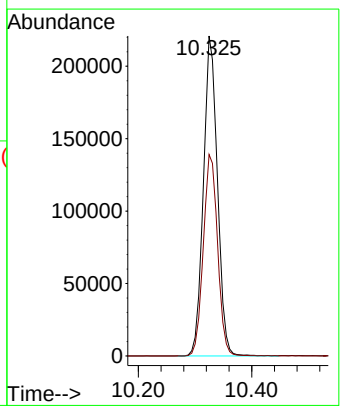


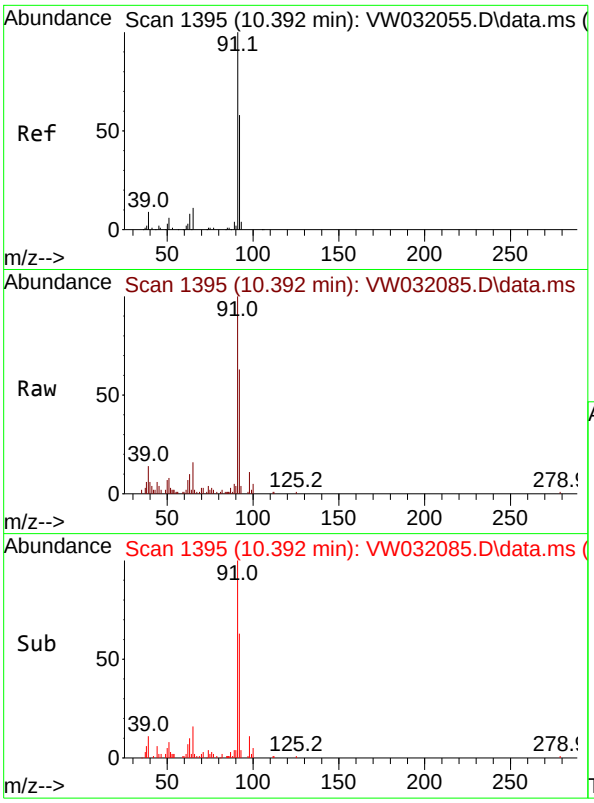


#50
Toluene-d8
Concen: 50.830 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 98 Resp: 379321

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7



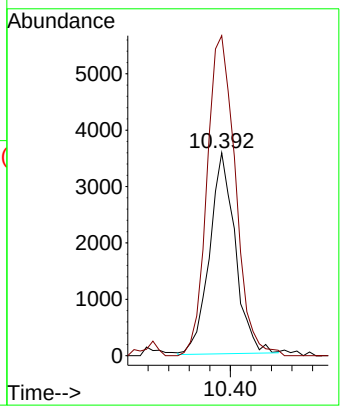


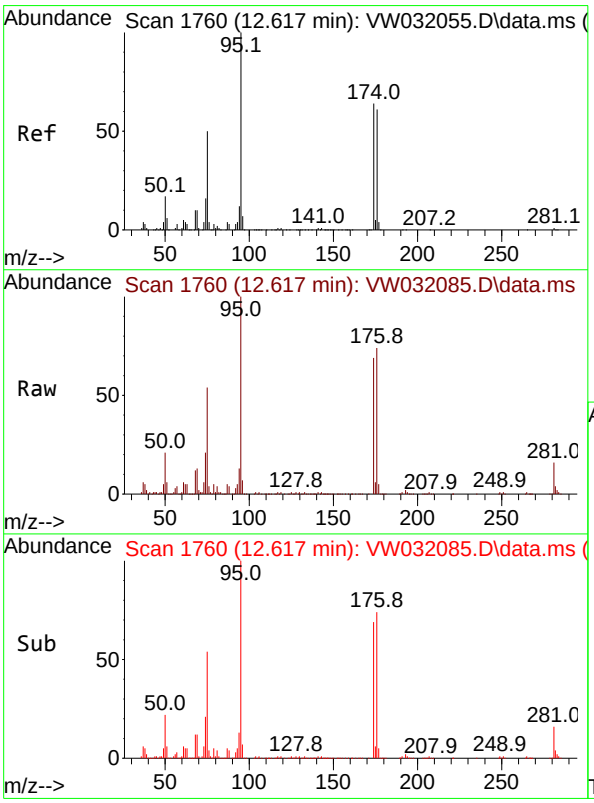
#52
Toluene
Concen: 1.107 ug/l
RT: 10.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 92 Resp: 6167

Ion	Ratio	Lower	Upper
92	100		
91	176.4	136.3	204.5

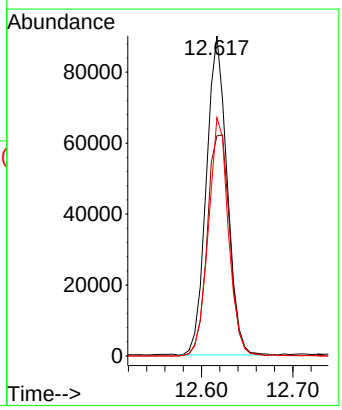


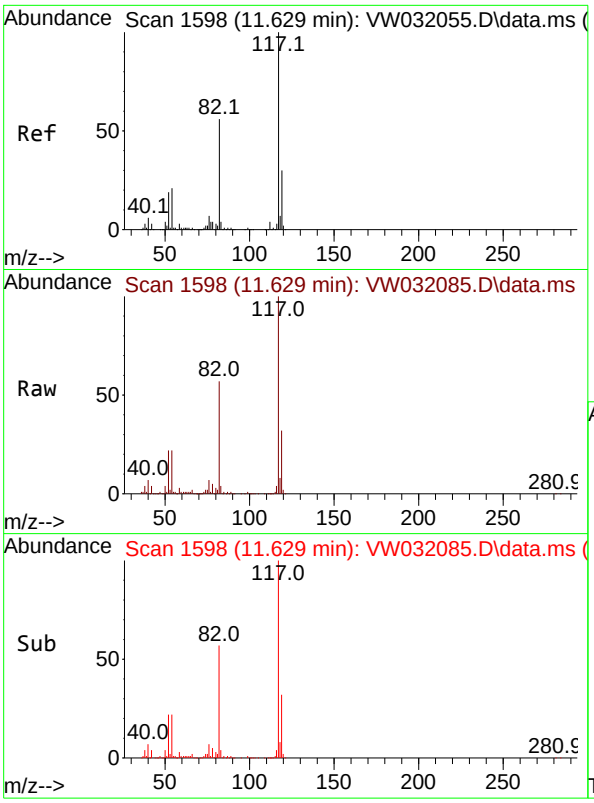


#62
4-Bromofluorobenzene
Concen: 51.561 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 95 Resp: 141794

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	129.0
176	72.2	0.0	124.6



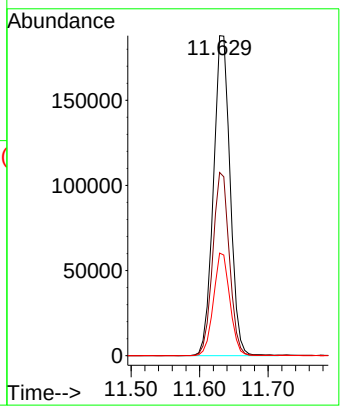


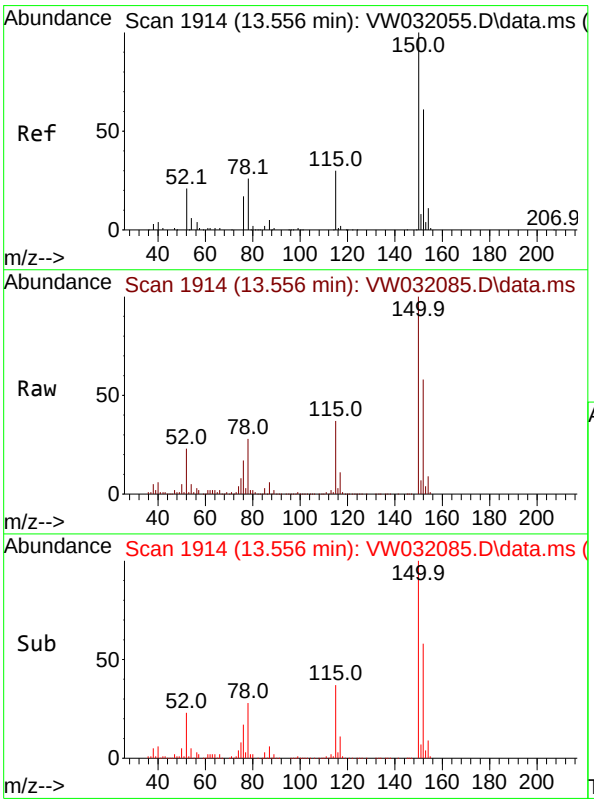
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion:117 Resp: 317114

Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.0	67.4
119	32.0	24.2	36.4

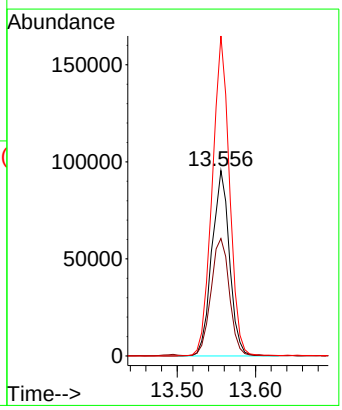


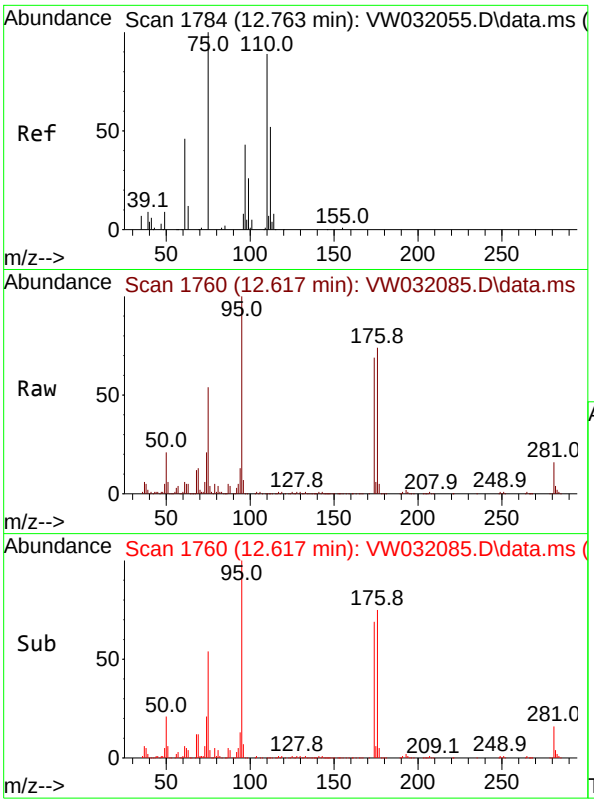


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion:152 Resp: 149119

Ion	Ratio	Lower	Upper
152	100		
115	65.9	32.6	97.8
150	169.6	0.0	359.4



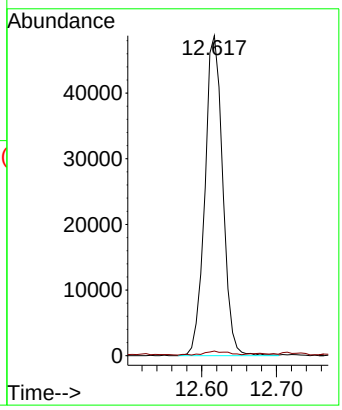


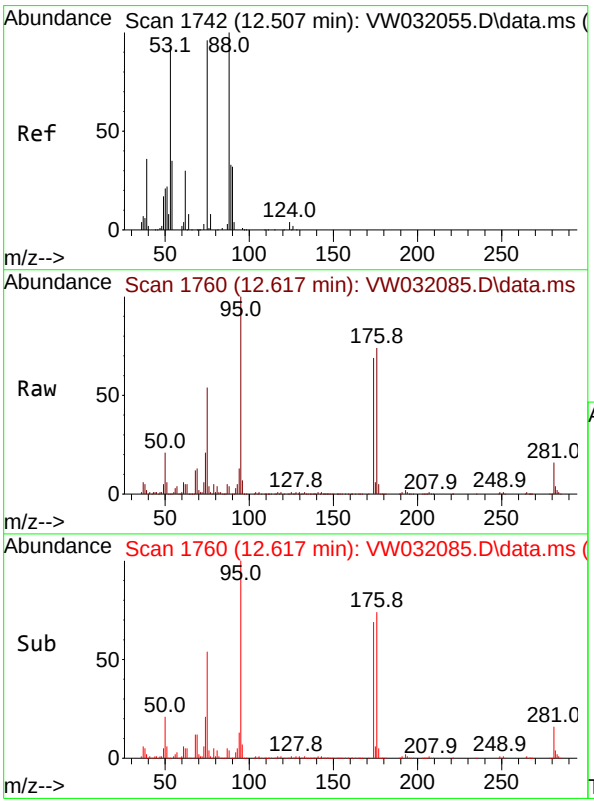
#76
1,2,3-Trichloropropane
Concen: 39.993 ug/l
RT: 12.617 min Scan# 1
Delta R.T. -0.146 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion: 75 Resp: 80941

Ion	Ratio	Lower	Upper
75	100		
77	1.5	123.5	370.5#

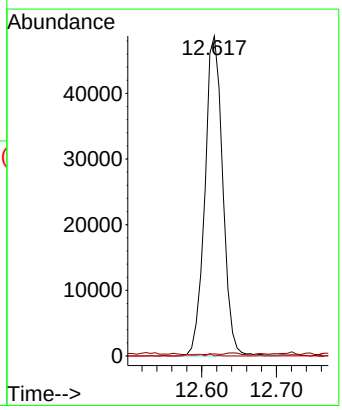


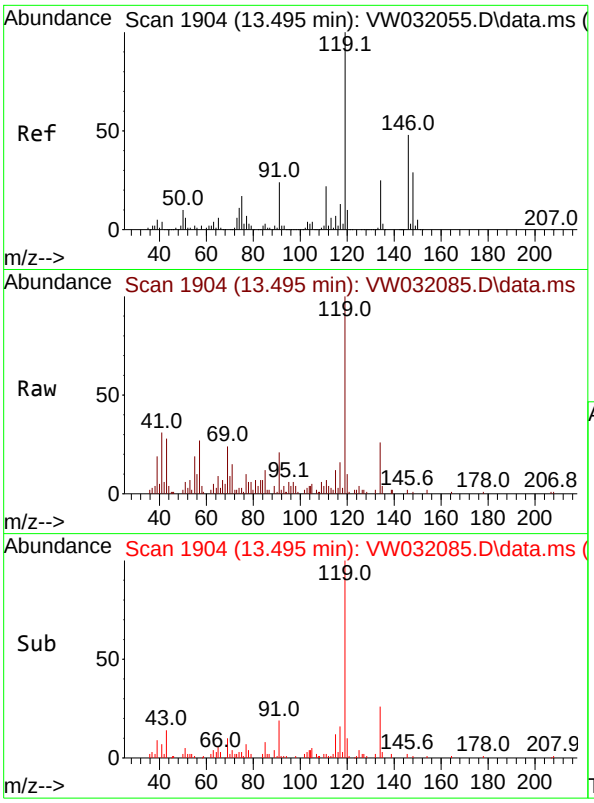


#81
trans-1,4-Dichloro-2-butene
Concen: 103.537 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.110 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Tgt Ion: 75 Resp: 80941

Ion	Ratio	Lower	Upper
75	100		
53	0.0	81.0	121.6#
89	0.4	37.3	55.9#



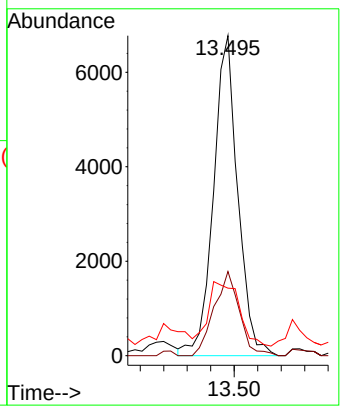


#86
p-Isopropyltoluene
Concen: 1.050 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032085.D
Acq: 14 Aug 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :
82H-W

Tgt Ion:119 Resp: 9717

Ion	Ratio	Lower	Upper
119	100		
134	27.3	12.4	37.0
91	25.9	12.1	36.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	191295	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	340189	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	325940	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	166040	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	146710	53.028	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 106.060%			
35) Dibromofluoromethane	7.904	113	119167	54.222	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 108.440%			
50) Toluene-d8	10.331	98	431442	53.076	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 106.160%			
62) 4-Bromofluorobenzene	12.617	95	151827	50.684	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	61255	44.771	ug/l	96
3) Chloromethane	2.259	50	78292	42.481	ug/l	99
4) Vinyl Chloride	2.405	62	95665	42.913	ug/l	93
5) Bromomethane	2.826	94	81791	48.904	ug/l	96
6) Chloroethane	2.972	64	68704	46.574	ug/l	100
7) Trichlorofluoromethane	3.301	101	92479	51.784	ug/l	97
8) Diethyl Ether	3.722	74	75008	51.265	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	103933	49.330	ug/l	98
10) Methyl Iodide	4.313	142	144087	48.234	ug/l	97
11) Tert butyl alcohol	5.228	59	36969	206.356	ug/l	96
12) 1,1-Dichloroethene	4.082	96	113815	49.059	ug/l	97
13) Acrolein	3.929	56	35987	126.071	ug/l	97
14) Allyl chloride	4.703	41	134232	39.755	ug/l #	87
15) Acrylonitrile	5.405	53	159692	229.148	ug/l	99
16) Acetone	4.161	43	148614	232.009	ug/l	97
17) Carbon Disulfide	4.423	76	247936	39.816	ug/l	99
18) Methyl Acetate	4.710	43	107582	53.076	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	192043	46.982	ug/l	94
20) Methylene Chloride	4.953	84	124065	41.890	ug/l	96
21) trans-1,2-Dichloroethene	5.453	96	113537	46.116	ug/l	97
22) Diisopropyl ether	6.343	45	335676	47.159	ug/l	96
23) Vinyl Acetate	6.282	43	1070647	229.096	ug/l	97
24) 1,1-Dichloroethane	6.246	63	208500	45.846	ug/l	99
25) 2-Butanone	7.197	43	213535	234.553	ug/l	96
26) 2,2-Dichloropropane	7.191	77	89156	39.077	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	141078	49.023	ug/l	95
28) Bromochloromethane	7.532	49	105860	51.150	ug/l	98
29) Tetrahydrofuran	7.557	42	143851	239.596	ug/l	100
30) Chloroform	7.691	83	243601	50.525	ug/l	95
31) Cyclohexane	7.971	56	152916	38.784	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	161712	46.176	ug/l	98
36) 1,1-Dichloropropene	8.093	75	148951	48.076	ug/l	99
37) Ethyl Acetate	7.276	43	92875	50.898	ug/l	97
38) Carbon Tetrachloride	8.081	117	152872	51.129	ug/l	96
39) Methylcyclohexane	9.343	83	169525	44.891	ug/l	94
40) Benzene	8.337	78	480231	49.865	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	50217	48.528	ug/l		91
42) 1,2-Dichloroethane	8.410	62	168647	54.726	ug/l		98
43) Isopropyl Acetate	8.434	43	169753	50.564	ug/l		99
44) Trichloroethene	9.105	130	116771	50.915	ug/l		96
45) 1,2-Dichloropropane	9.373	63	115794	49.769	ug/l		97
46) Dibromomethane	9.465	93	79744	53.105	ug/l		96
47) Bromodichloromethane	9.654	83	184629	53.359	ug/l		95
48) Methyl methacrylate	9.440	41	82474	50.886	ug/l	#	90
49) 1,4-Dioxane	9.459	88	20213	1041.083	ug/l		93
51) 4-Methyl-2-Pentanone	10.215	43	510331	269.316	ug/l		96
52) Toluene	10.391	92	310694	51.219	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	158355	48.849	ug/l		100
54) cis-1,3-Dichloropropene	10.081	75	177874	48.366	ug/l		91
55) 1,1,2-Trichloroethane	10.788	97	104590	52.415	ug/l		96
56) Ethyl methacrylate	10.648	69	138833	51.993	ug/l	#	92
57) 1,3-Dichloropropane	10.934	76	176713	50.807	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	400276	271.010	ug/l		100
59) 2-Hexanone	10.971	43	354969	270.484	ug/l		96
60) Dibromochloromethane	11.129	129	122381	53.691	ug/l		99
61) 1,2-Dibromoethane	11.233	107	102979	53.107	ug/l		99
64) Tetrachloroethene	10.861	164	107005	56.838	ug/l		92
65) Chlorobenzene	11.660	112	348750	49.157	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	118751	53.648	ug/l		96
67) Ethyl Benzene	11.733	91	601685	50.069	ug/l		96
68) m/p-Xylenes	11.836	106	455888	98.314	ug/l		98
69) o-Xylene	12.166	106	216903	50.609	ug/l		96
70) Styrene	12.178	104	392538	51.563	ug/l		98
71) Bromoform	12.355	173	69699	55.047	ug/l	#	95
73) Isopropylbenzene	12.464	105	540086	46.544	ug/l		98
74) N-amyl acetate	12.269	43	156756	47.086	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.708	83	130940	47.526	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	155884	69.173	ug/l		59
77) Bromobenzene	12.745	156	132649	47.862	ug/l		94
78) n-propylbenzene	12.800	91	674775	47.233	ug/l		100
79) 2-Chlorotoluene	12.891	91	405968	46.044	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	460118	46.706	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	34614	39.765	ug/l		90
82) 4-Chlorotoluene	12.989	91	431266	46.038	ug/l		98
83) tert-Butylbenzene	13.202	119	401156	49.066	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	475052	47.371	ug/l		99
85) sec-Butylbenzene	13.379	105	568054	45.955	ug/l		99
86) p-Isopropyltoluene	13.495	119	472729	45.874	ug/l		97
87) 1,3-Dichlorobenzene	13.495	146	270340	49.021	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	271213	48.665	ug/l		98
89) n-Butylbenzene	13.818	91	466468	46.594	ug/l		99
90) Hexachloroethane	14.086	117	87184	46.262	ug/l		96
91) 1,2-Dichlorobenzene	13.866	146	243969	48.837	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.482	75	21865	44.641	ug/l		98
93) 1,2,4-Trichlorobenzene	15.122	180	146018	48.861	ug/l		96
94) Hexachlorobutadiene	15.226	225	67884	50.817	ug/l		92
95) Naphthalene	15.354	128	345629	47.200	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	136101	50.054	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

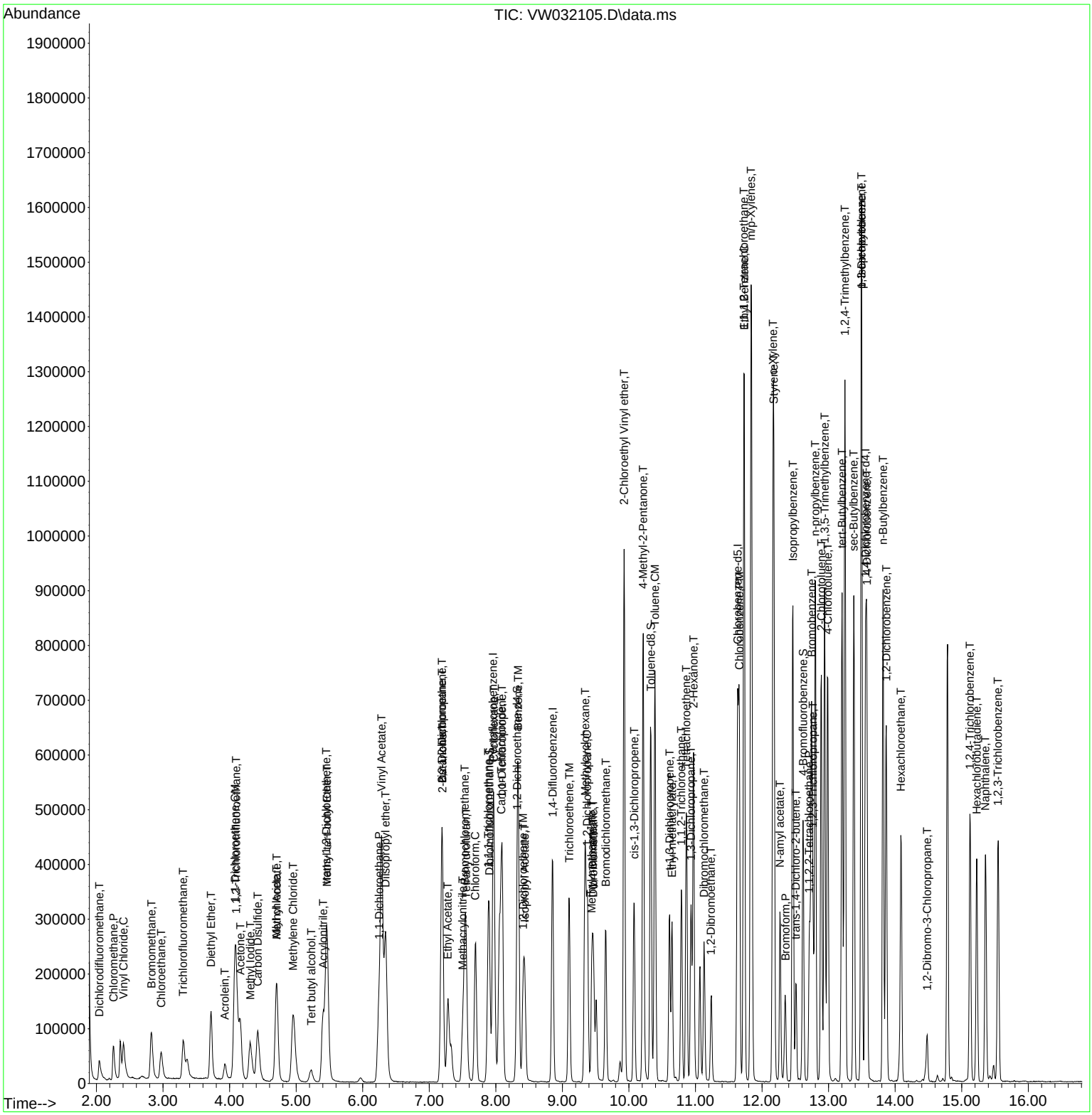
(#) = qualifier out of range (m) = manual integration (+) = signals summed

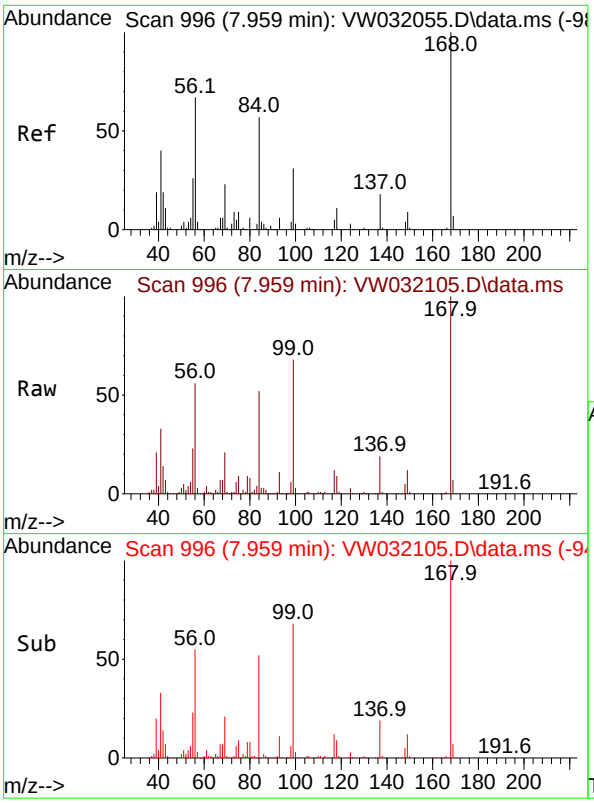
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
Data File : VW032105.D
Acq On : 14 Aug 2025 19:32
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 03:58:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



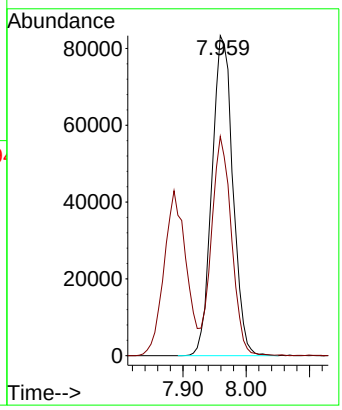


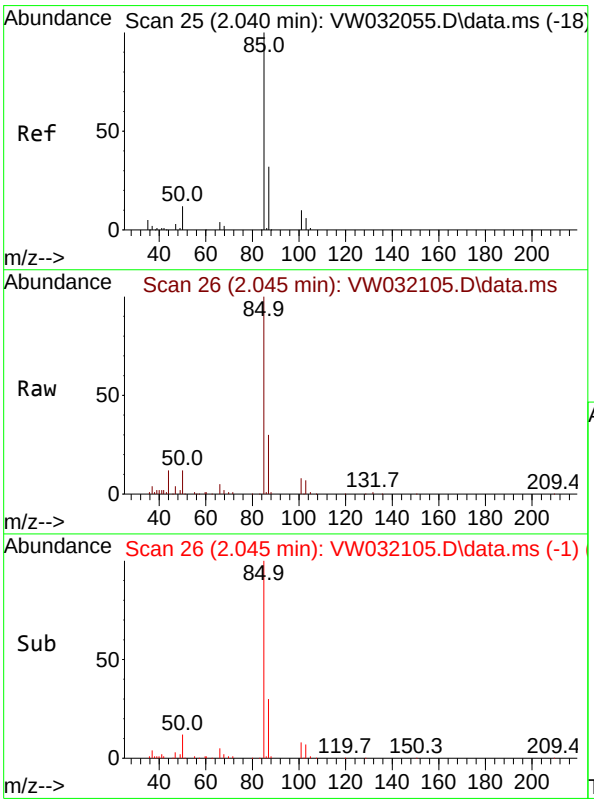
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 191295

Ion	Ratio	Lower	Upper
168	100		
99	68.3	56.0	84.0

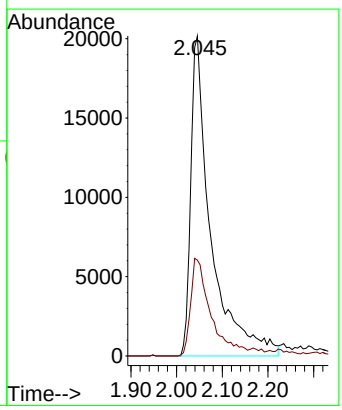


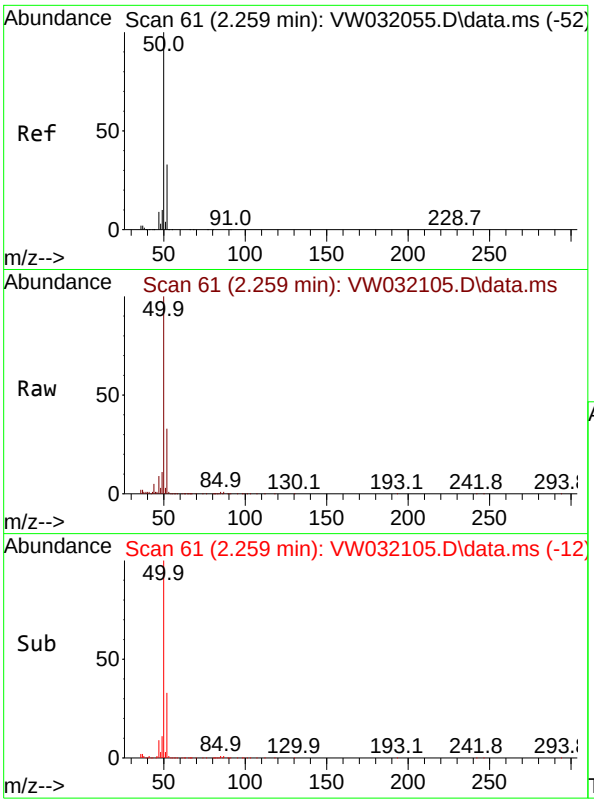


#2
Dichlorodifluoromethane
Concen: 44.771 ug/l
RT: 2.045 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 85 Resp: 61255

Ion	Ratio	Lower	Upper
85	100		
87	29.9	16.2	48.6



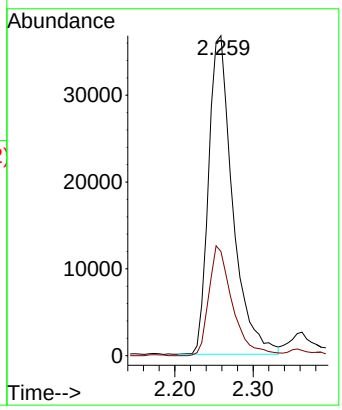


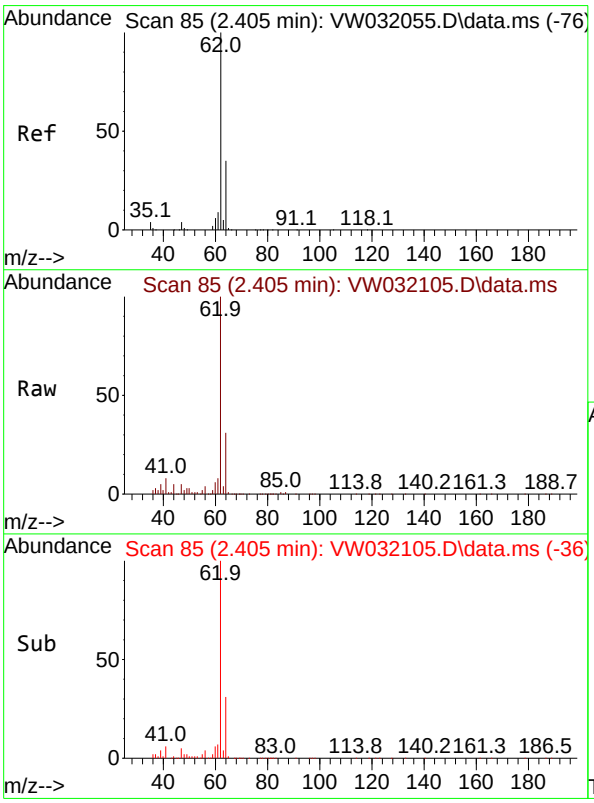
#3
Chloromethane
Concen: 42.481 ug/l
RT: 2.259 min Scan# 6
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 78292

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.6	39.8

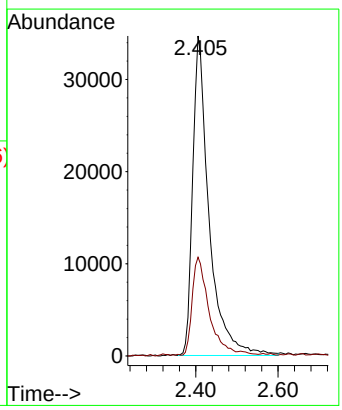


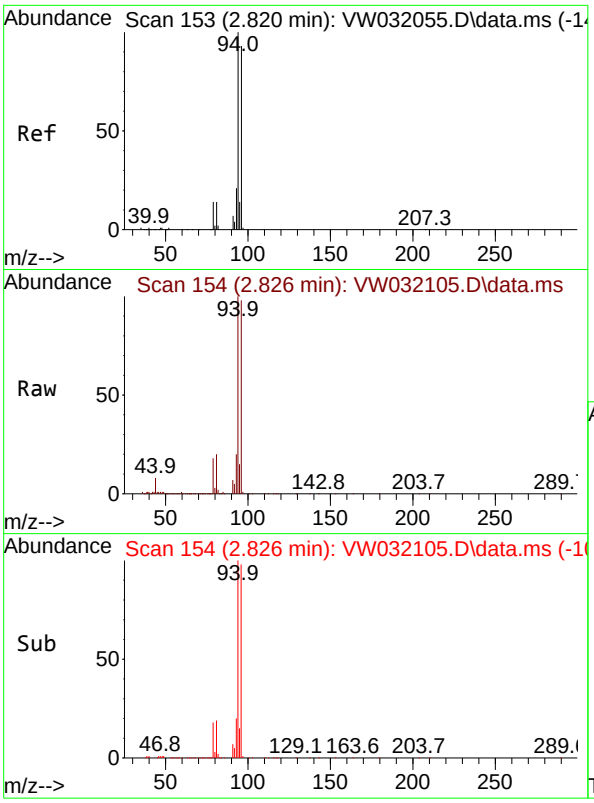


#4
Vinyl Chloride
Concen: 42.913 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 62 Resp: 95665

Ion	Ratio	Lower	Upper
62	100		
64	30.6	27.8	41.6



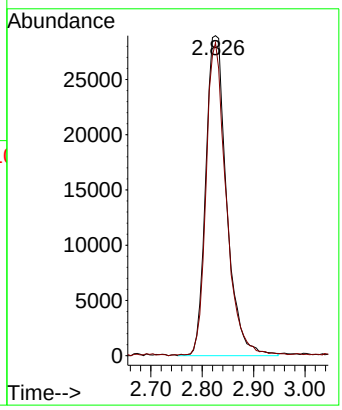


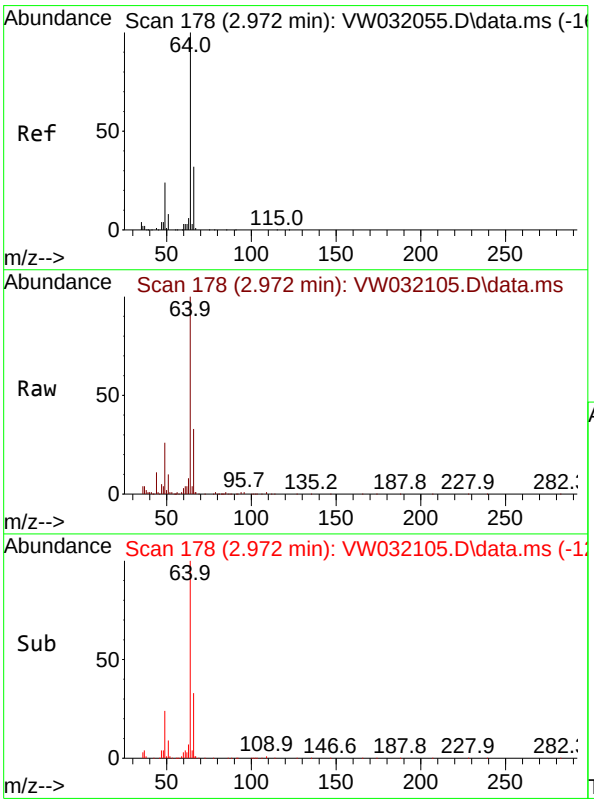
#5
Bromomethane
Concen: 48.904 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 81791

Ion	Ratio	Lower	Upper
94	100		
96	97.6	74.7	112.1

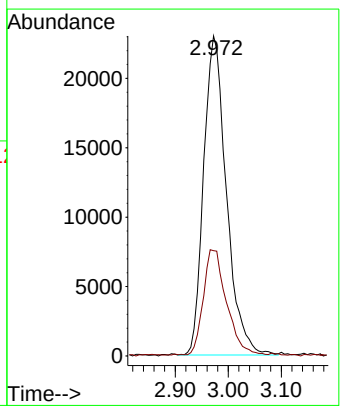


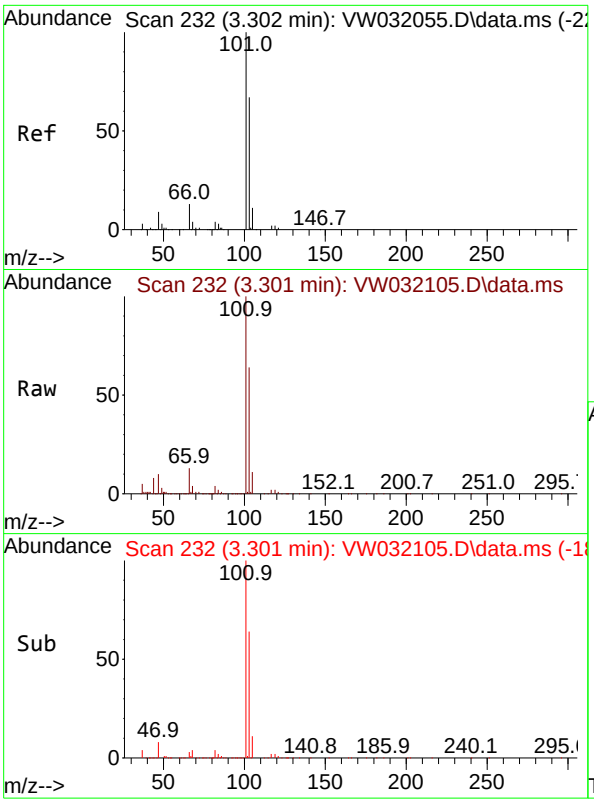


#6
Chloroethane
Concen: 46.574 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 64 Resp: 68704

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.0	39.0



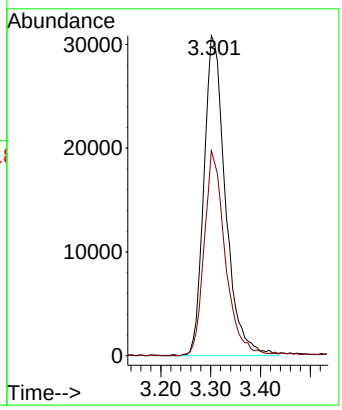


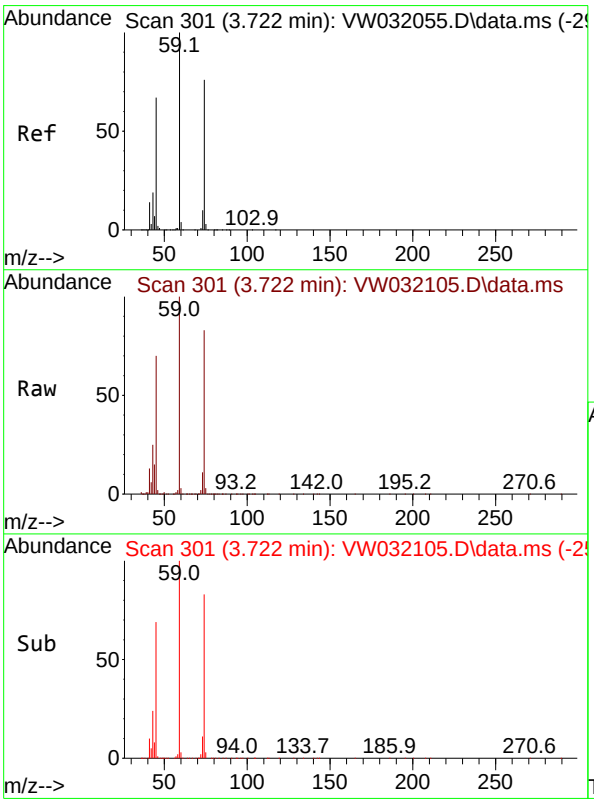
#7
Trichlorofluoromethane
Concen: 51.784 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 92479

Ion	Ratio	Lower	Upper
101	100		
103	64.0	53.4	80.0

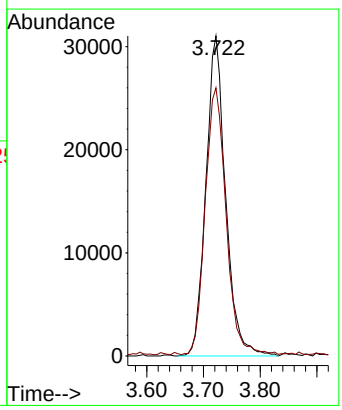


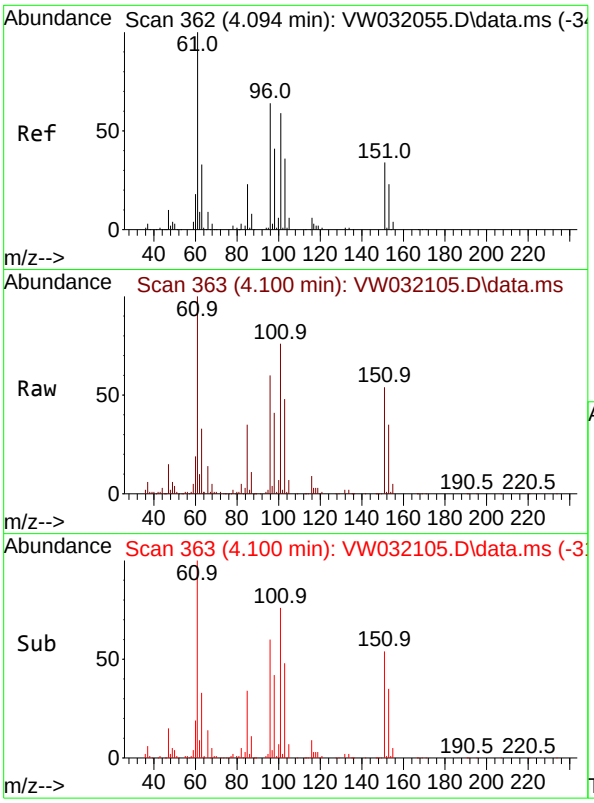


#8
Diethyl Ether
Concen: 51.265 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 74 Resp: 75008

Ion	Ratio	Lower	Upper
74	100		
45	88.0	45.4	136.2



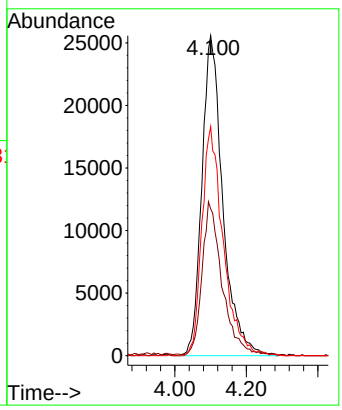


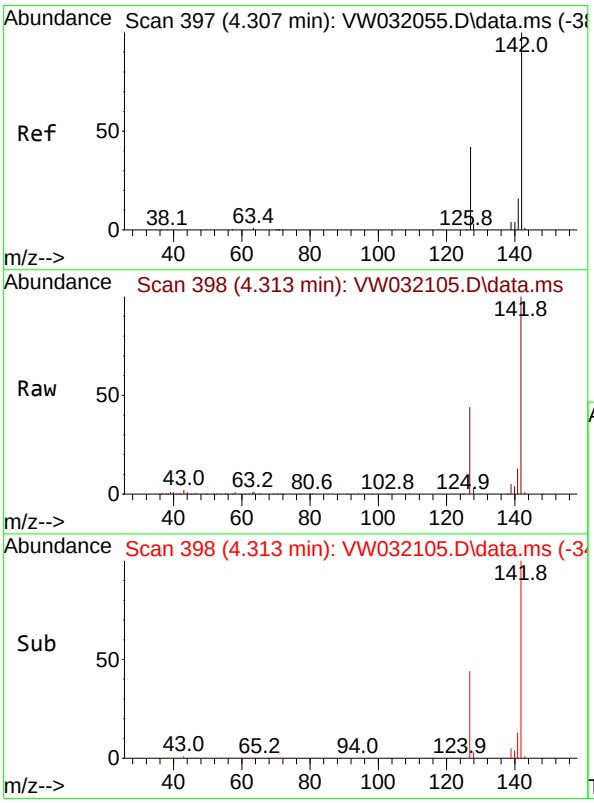
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.330 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 103933

Ion	Ratio	Lower	Upper
101	100		
85	45.2	34.9	52.3
151	72.2	56.2	84.4

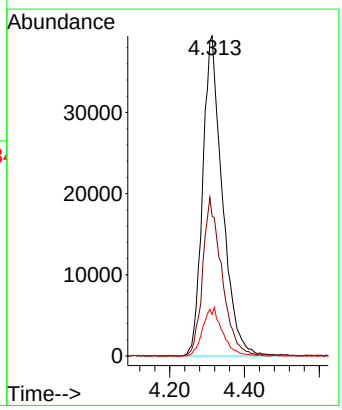


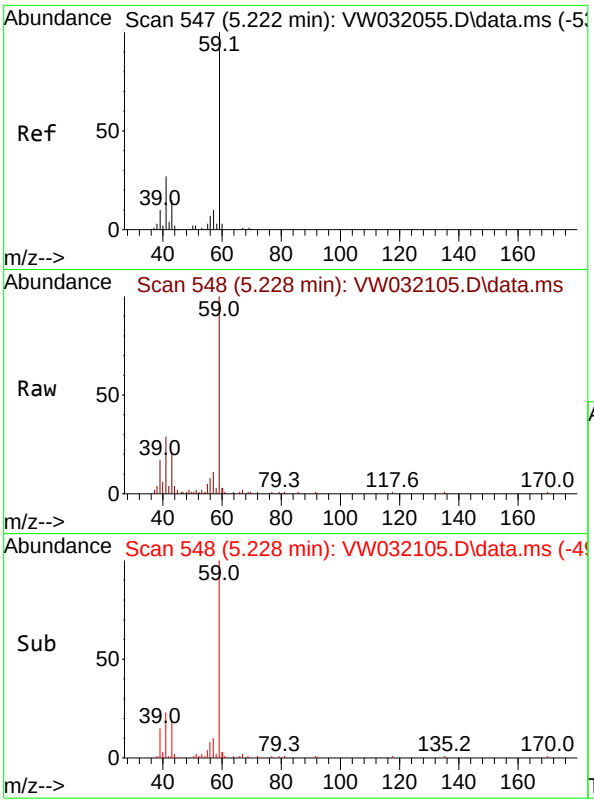


#10
Methyl Iodide
Concen: 48.234 ug/l
RT: 4.313 min Scan# 398
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:142 Resp: 144087

Ion	Ratio	Lower	Upper
142	100		
127	48.3	36.6	55.0
141	15.2	12.1	18.1



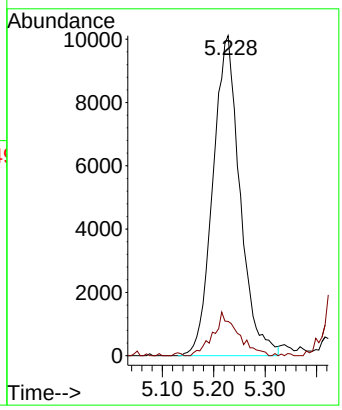


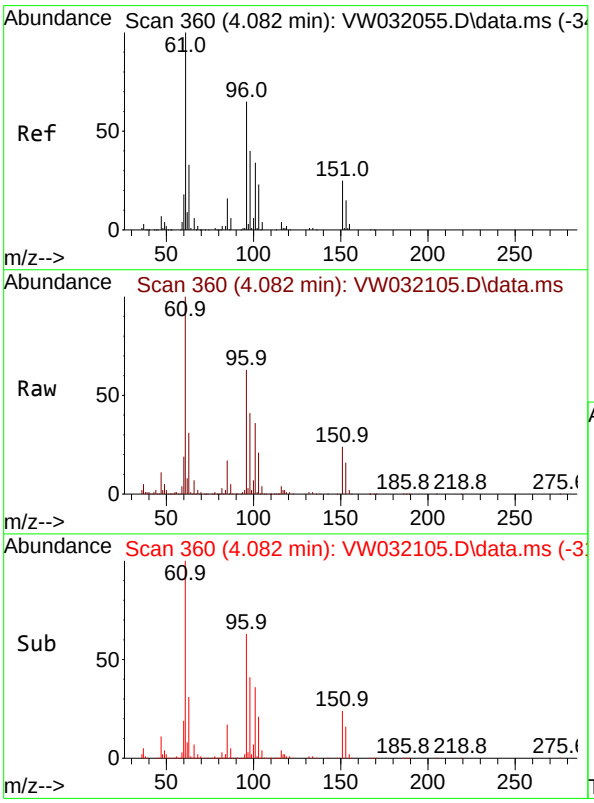
#11
Tert butyl alcohol
Concen: 206.356 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 36969

Ion	Ratio	Lower	Upper
59	100		
57	12.5	8.7	13.1

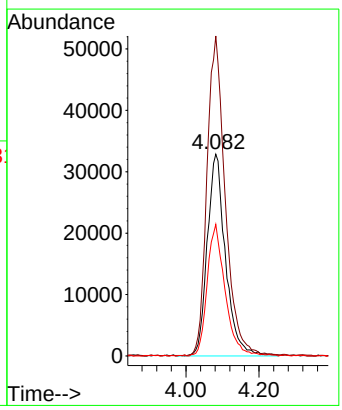


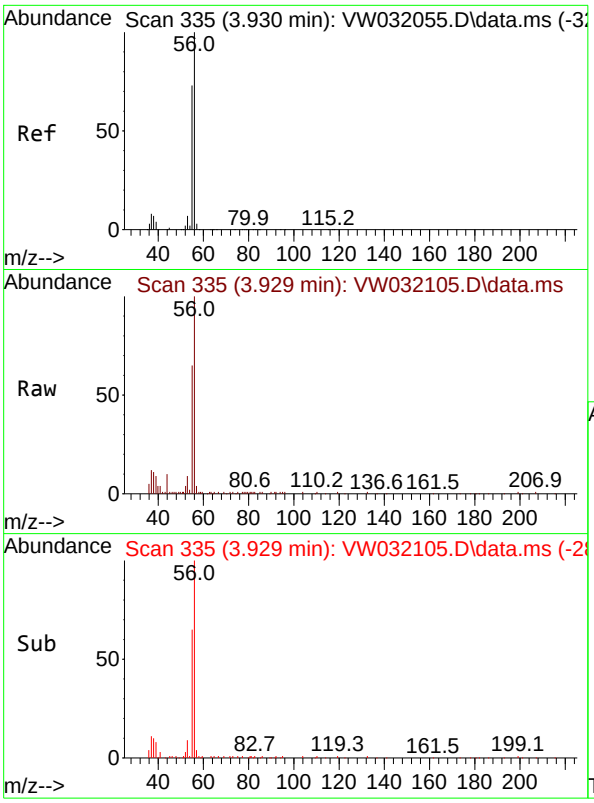


#12
1,1-Dichloroethene
Concen: 49.059 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 96 Resp: 113815

Ion	Ratio	Lower	Upper
96	100		
61	158.4	123.4	185.2
98	65.2	49.5	74.3



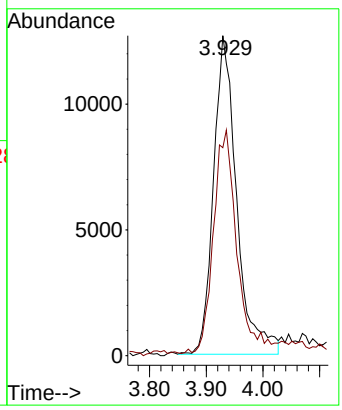


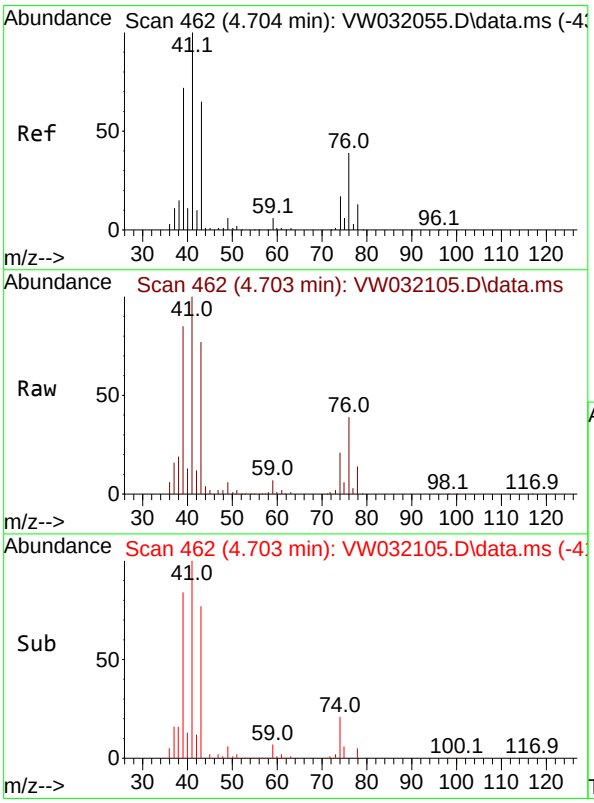
#13
Acrolein
Concen: 126.071 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 35987

Ion	Ratio	Lower	Upper
56	100		
55	71.4	55.4	83.2

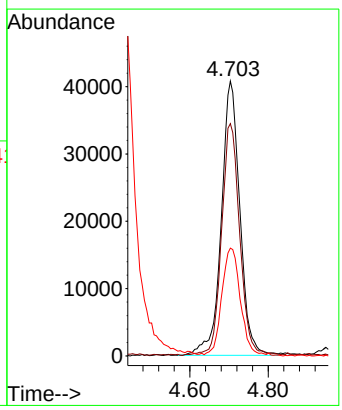


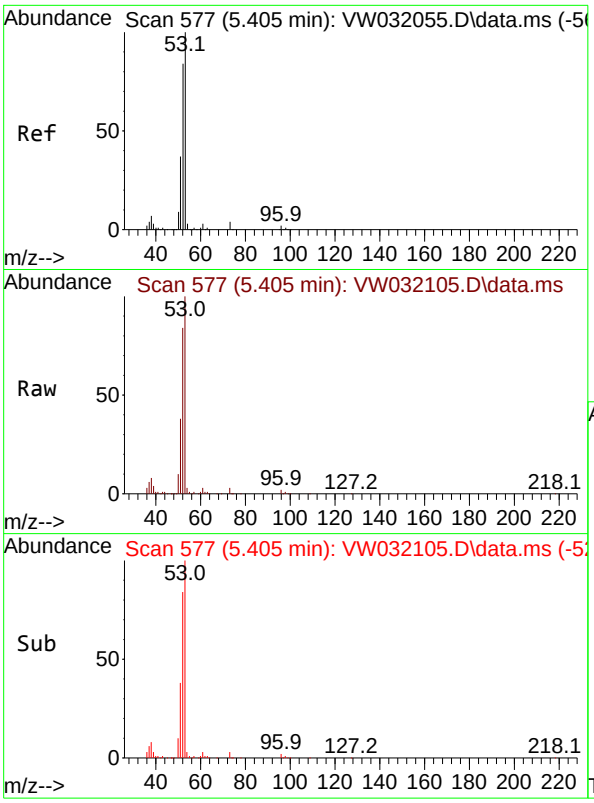


#14
Allyl chloride
Concen: 39.755 ug/l
RT: 4.703 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 41 Resp: 134232

Ion	Ratio	Lower	Upper
41	100		
39	82.9	54.5	81.7#
76	38.9	29.3	43.9



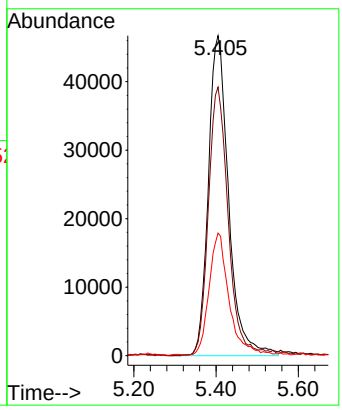


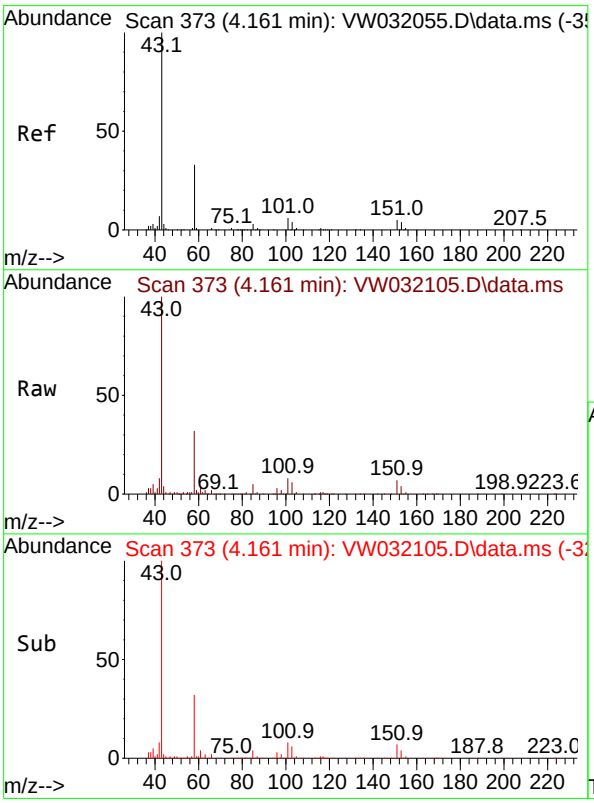
#15
Acrylonitrile
Concen: 229.148 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 159692

Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.1	99.1
51	37.5	29.2	43.8

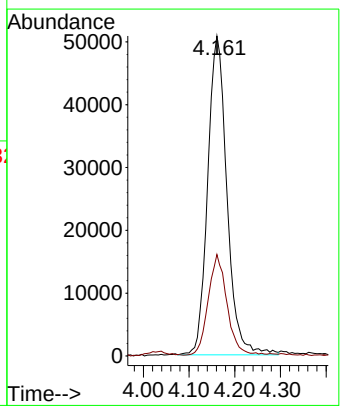


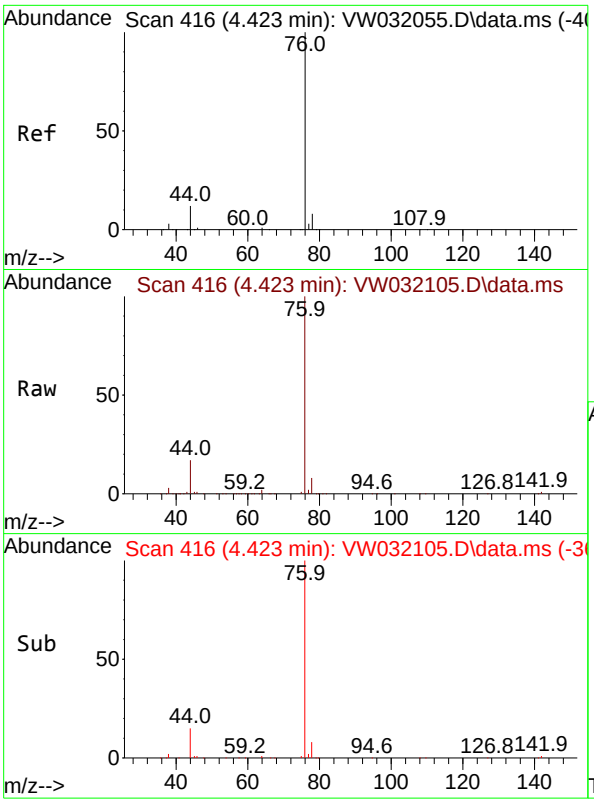


#16
Acetone
Concen: 232.009 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 148614

Ion	Ratio	Lower	Upper
43	100		
58	31.4	26.6	39.8



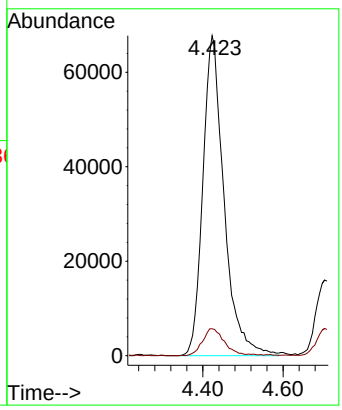


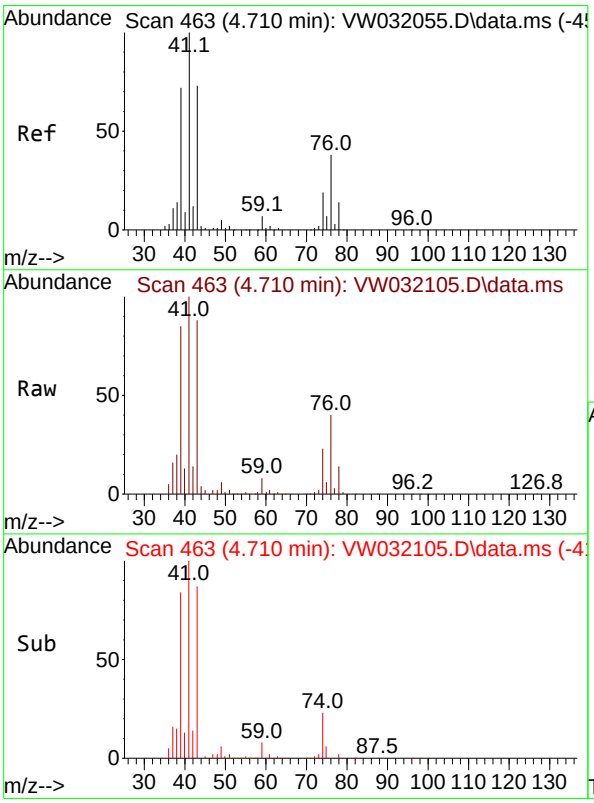
#17
Carbon Disulfide
Concen: 39.816 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 247936

Ion	Ratio	Lower	Upper
76	100		
78	8.4	6.4	9.6

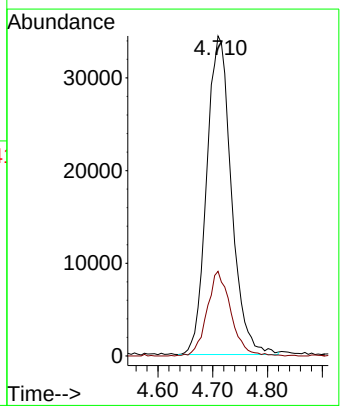


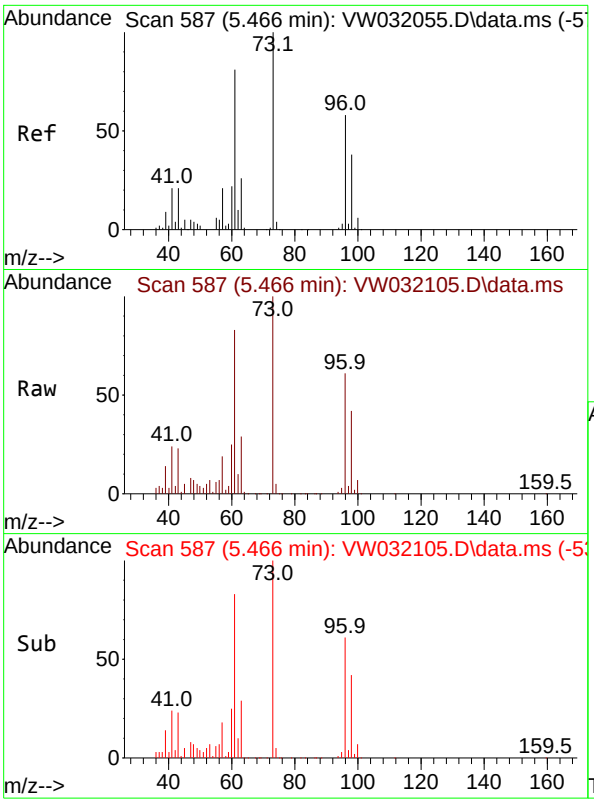


#18
Methyl Acetate
Concen: 53.076 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 107582

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0



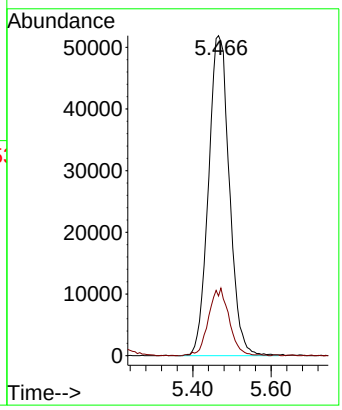


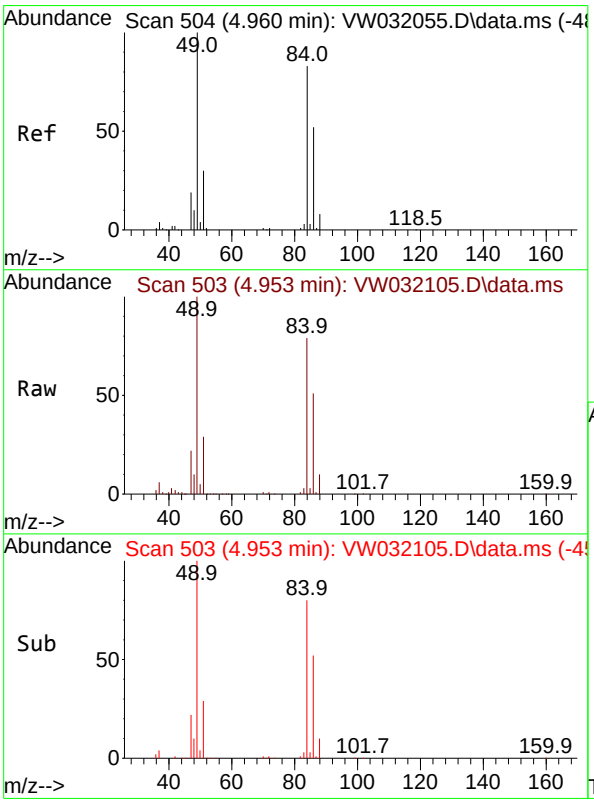
#19
Methyl tert-butyl Ether
Concen: 46.982 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 192043

Ion	Ratio	Lower	Upper
73	100		
57	18.6	17.2	25.8

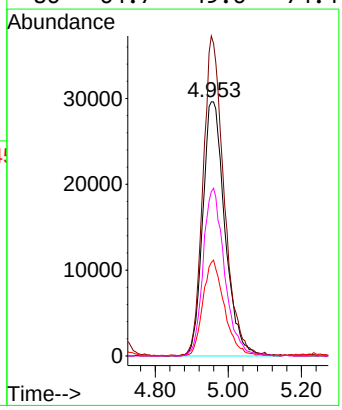


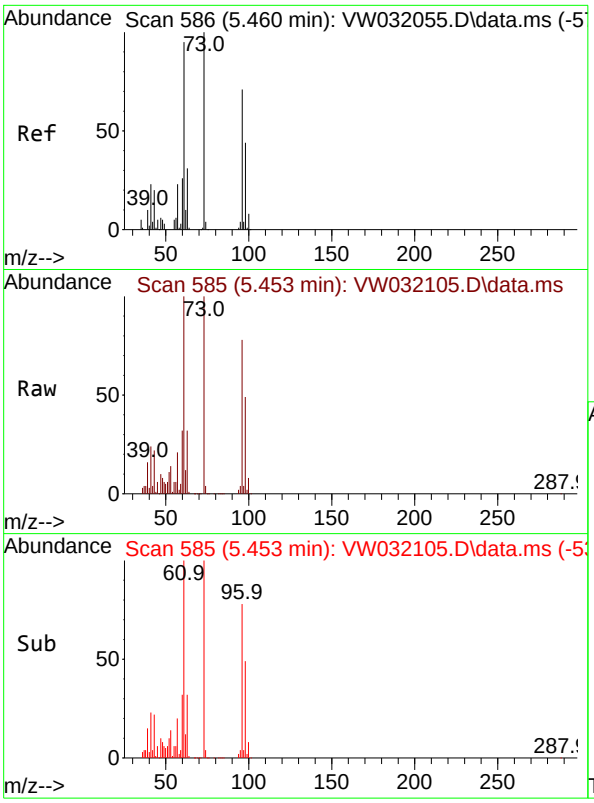


#20
Methylene Chloride
Concen: 41.890 ug/l
RT: 4.953 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 84 Resp: 124065

Ion	Ratio	Lower	Upper
84	100		
49	125.7	95.9	143.9
51	36.7	28.6	43.0
86	64.7	49.6	74.4



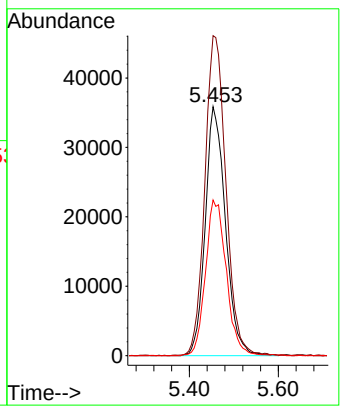


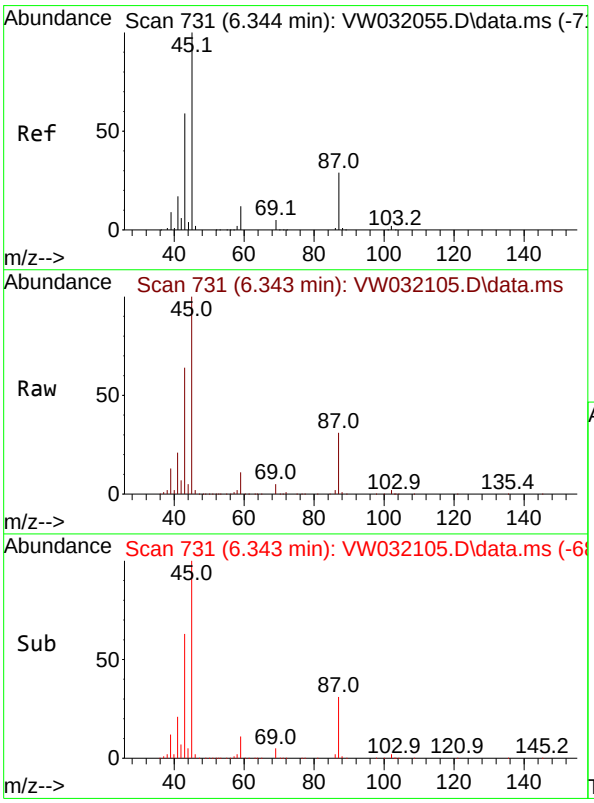
#21
trans-1,2-Dichloroethene
Concen: 46.116 ug/l
RT: 5.453 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 113537

Ion	Ratio	Lower	Upper
96	100		
61	128.3	106.8	160.2
98	62.5	49.6	74.4

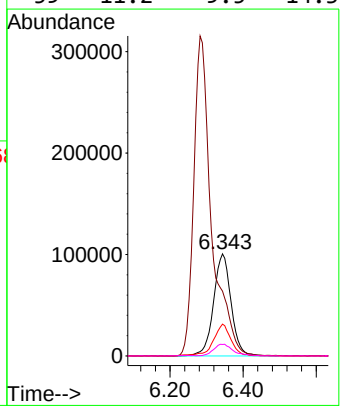


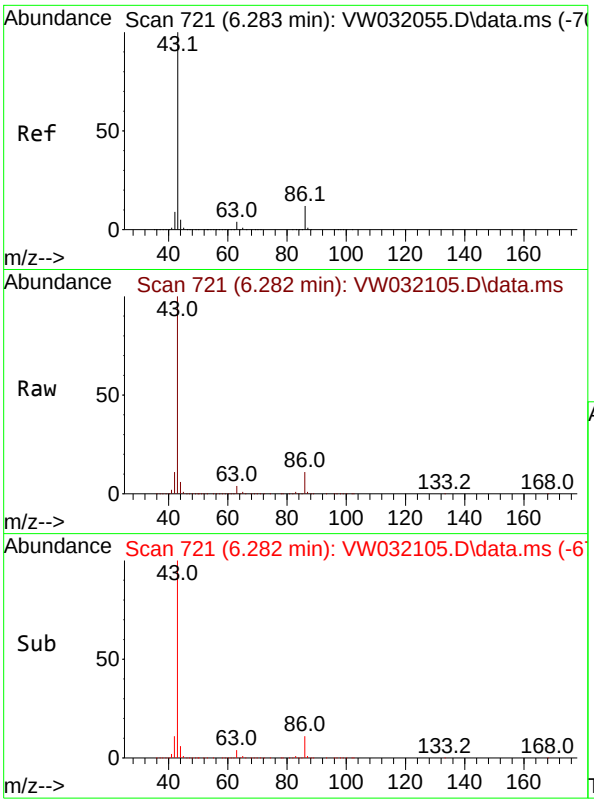


#22
Diisopropyl ether
Concen: 47.159 ug/l
RT: 6.343 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 45 Resp: 335676

Ion	Ratio	Lower	Upper
45	100		
43	63.2	47.0	70.4
87	31.1	23.8	35.8
59	11.2	9.5	14.3



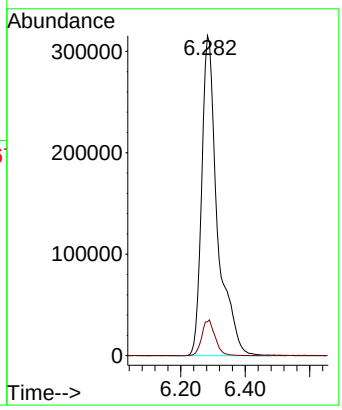


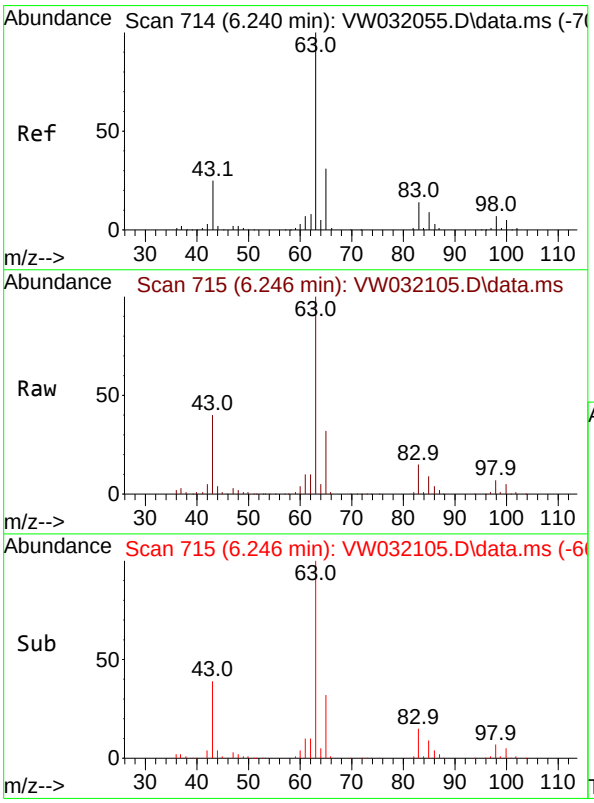
#23
Vinyl Acetate
Concen: 229.096 ug/l
RT: 6.282 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1070647

Ion	Ratio	Lower	Upper
43	100		
86	10.6	9.4	14.0

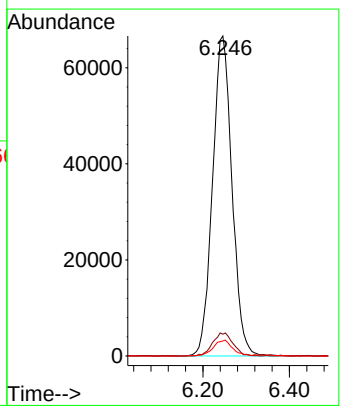


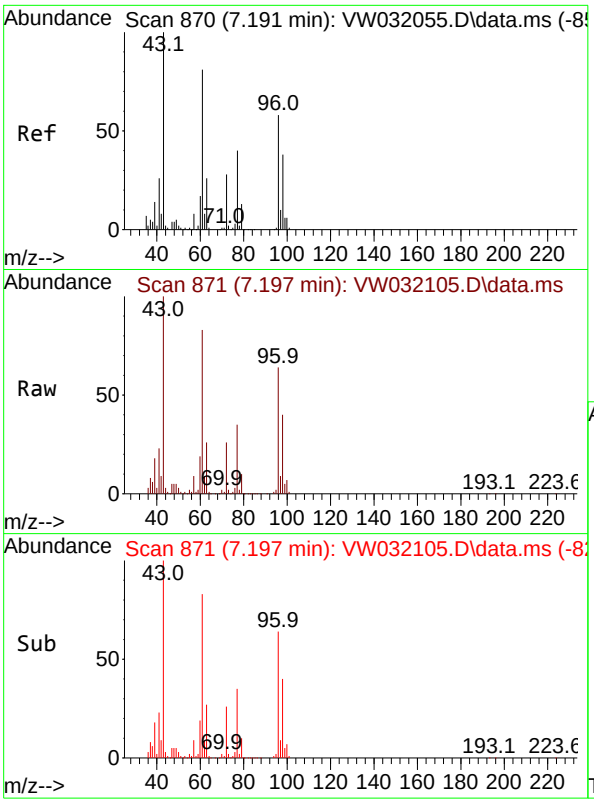


#24
1,1-Dichloroethane
Concen: 45.846 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 63 Resp: 208500

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.7	11.1
100	4.7	2.5	7.4



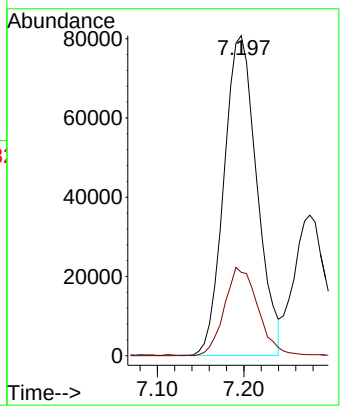


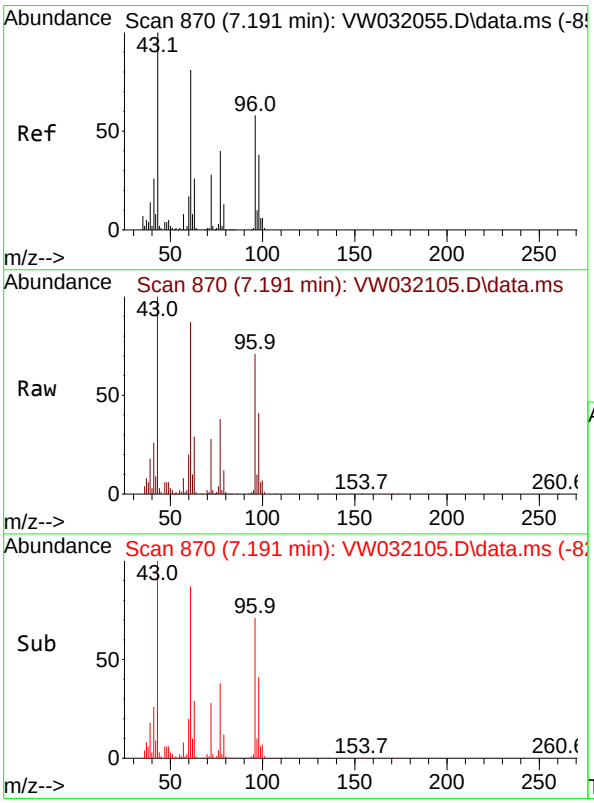
#25
2-Butanone
Concen: 234.553 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 213535

Ion	Ratio	Lower	Upper
43	100		
72	26.0	22.3	33.5

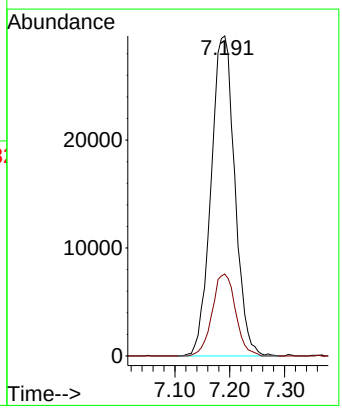


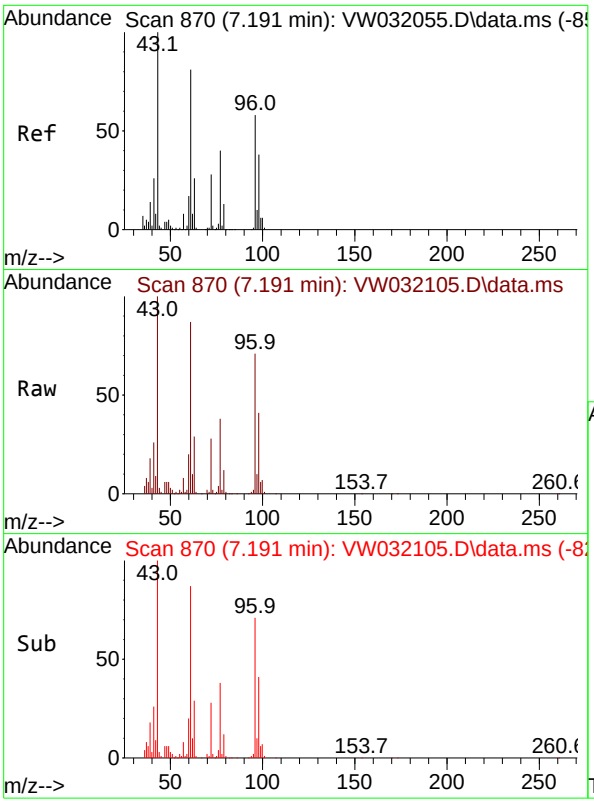


#26
2,2-Dichloropropane
Concen: 39.077 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 77 Resp: 89156

Ion	Ratio	Lower	Upper
77	100		
97	25.3	12.3	36.9



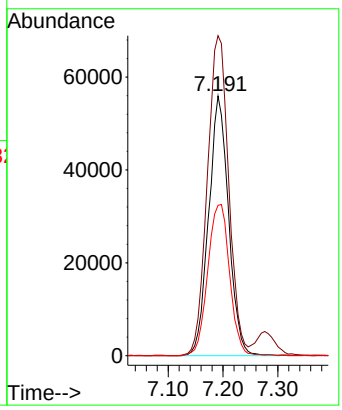


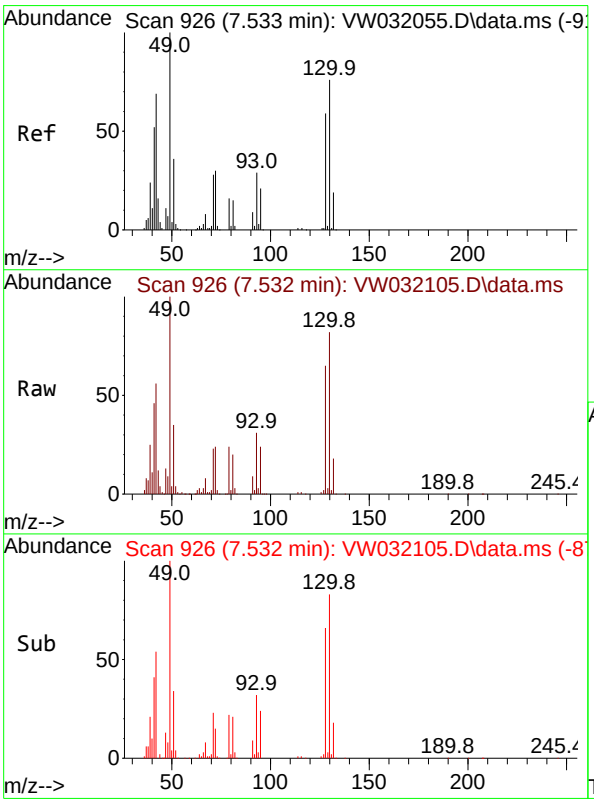
#27
cis-1,2-Dichloroethene
Concen: 49.023 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 141078

Ion	Ratio	Lower	Upper
96	100		
61	132.2	0.0	281.2
98	63.9	0.0	130.8

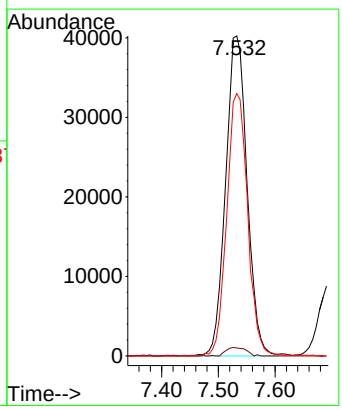


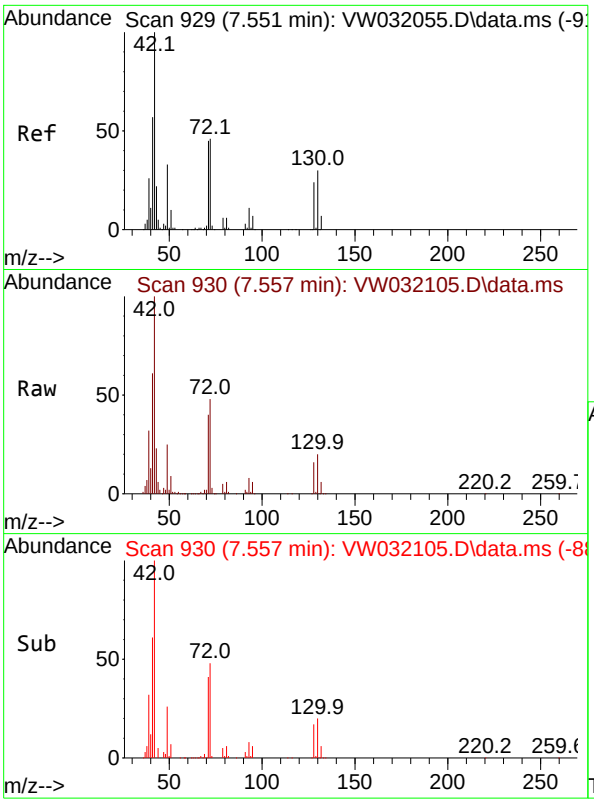


#28
Bromochloromethane
Concen: 51.150 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 49 Resp: 105860

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	79.6	61.9	92.9



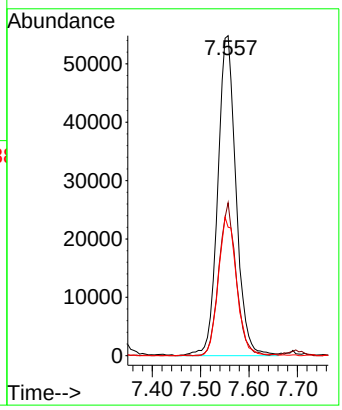


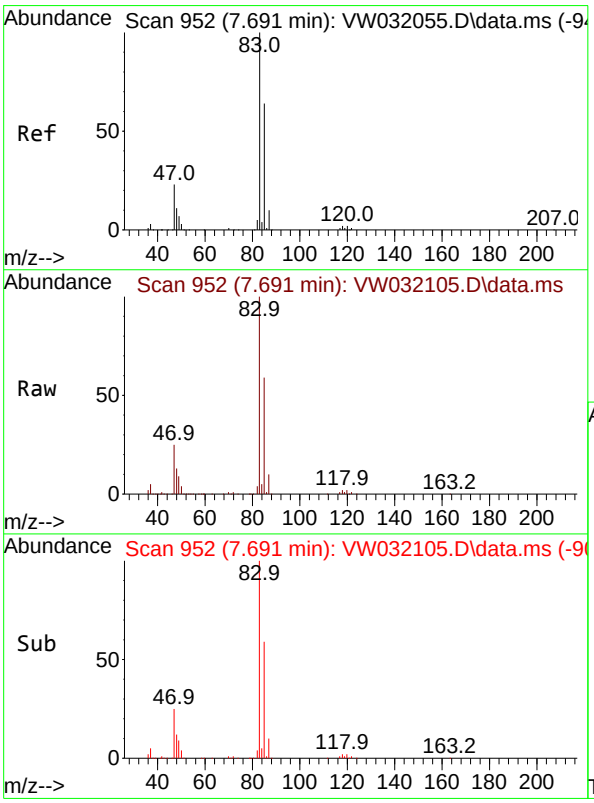
#29
Tetrahydrofuran
Concen: 239.596 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 143851

Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.6	55.0
71	43.5	34.7	52.1

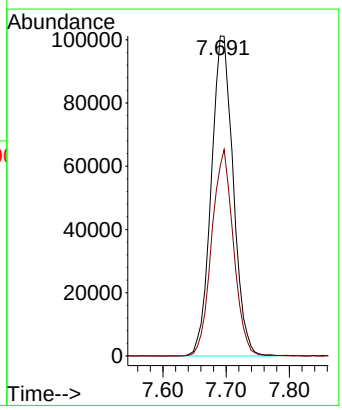


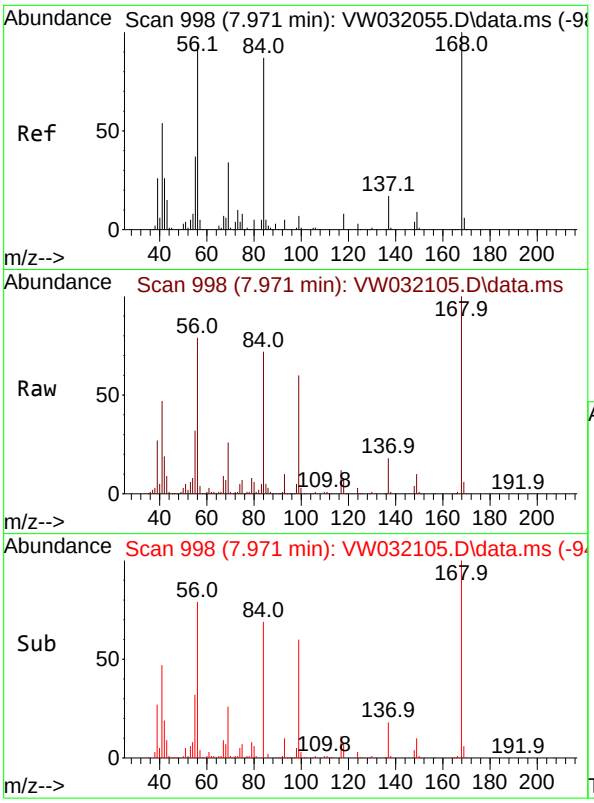


#30
Chloroform
Concen: 50.525 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 83 Resp: 243601

Ion	Ratio	Lower	Upper
83	100		
85	59.4	51.0	76.4



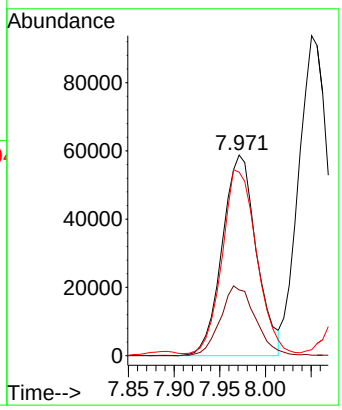


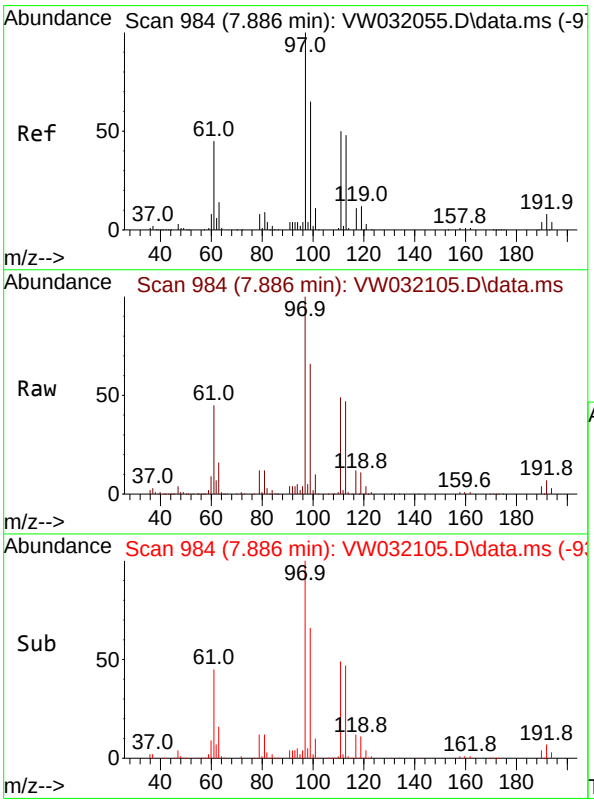
#31
Cyclohexane
Concen: 38.784 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 152916

Ion	Ratio	Lower	Upper
56	100		
69	32.8	28.6	42.8
84	90.3	73.0	109.4

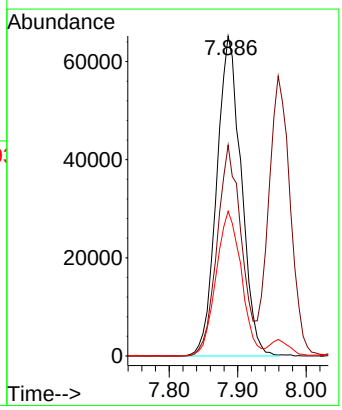


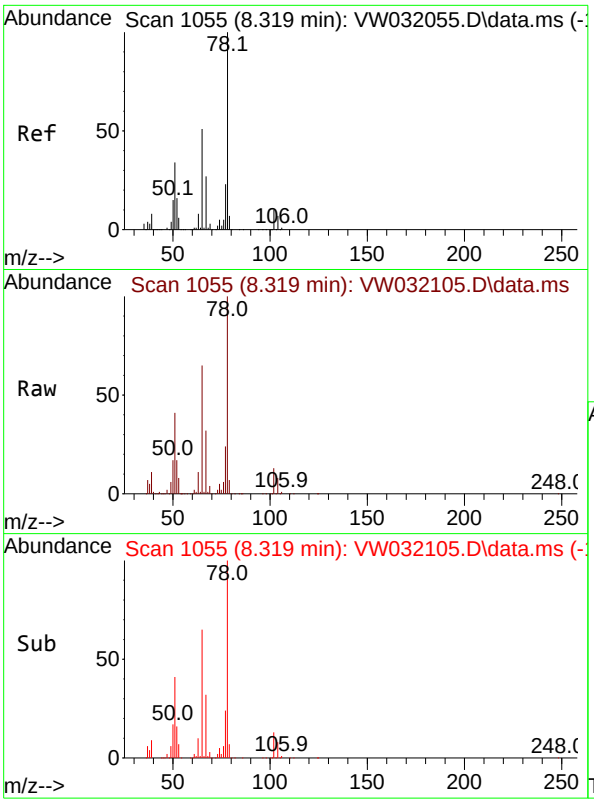


#32
1,1,1-Trichloroethane
Concen: 46.176 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 97 Resp: 161712

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.8	77.8
61	46.8	35.9	53.9



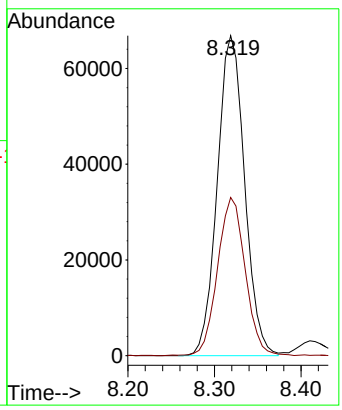


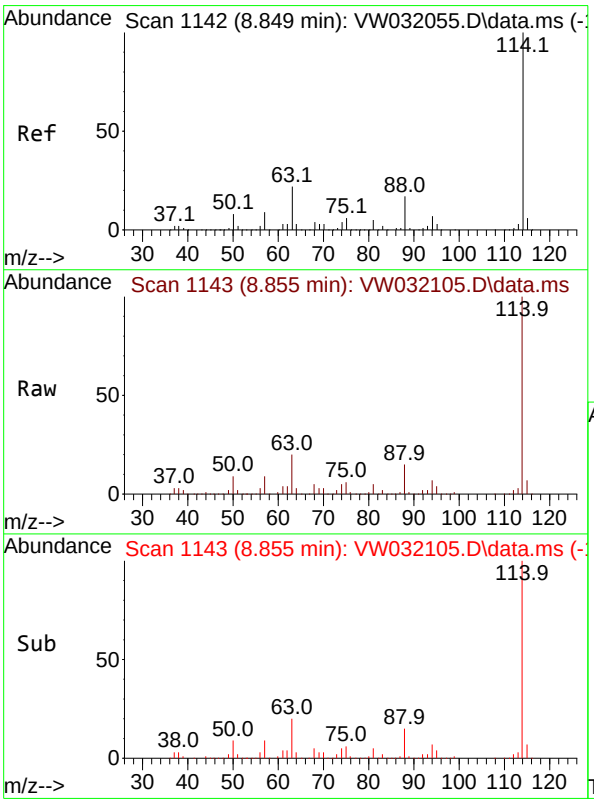
#33
1,2-Dichloroethane-d4
Concen: 53.028 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 146710

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	102.4

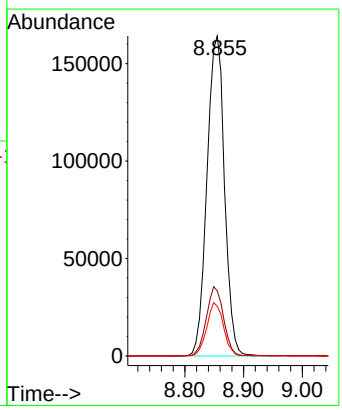


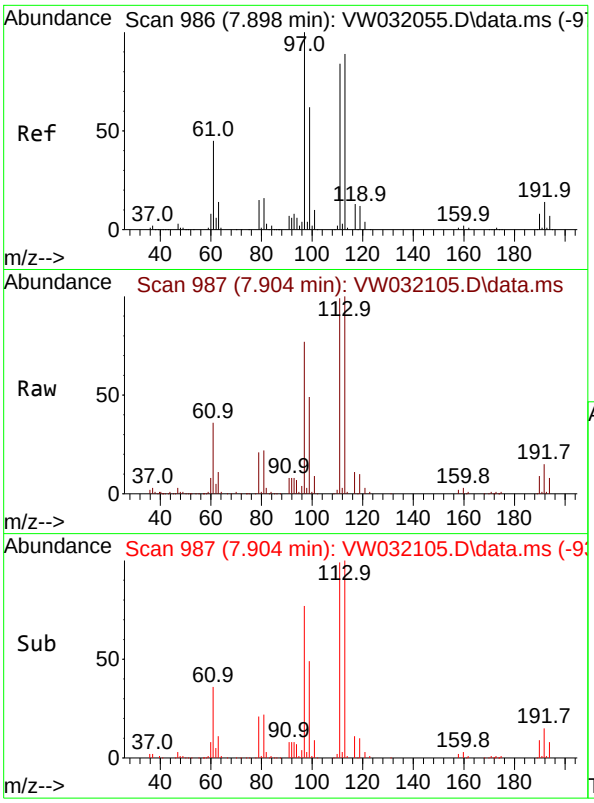


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:114 Resp: 340189

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.0
88	15.5	0.0	33.8



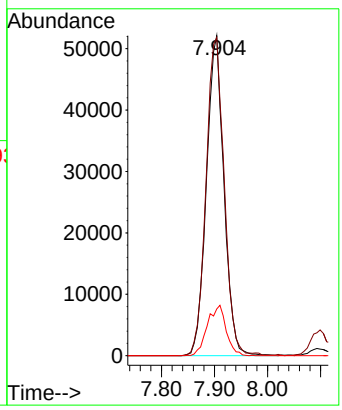


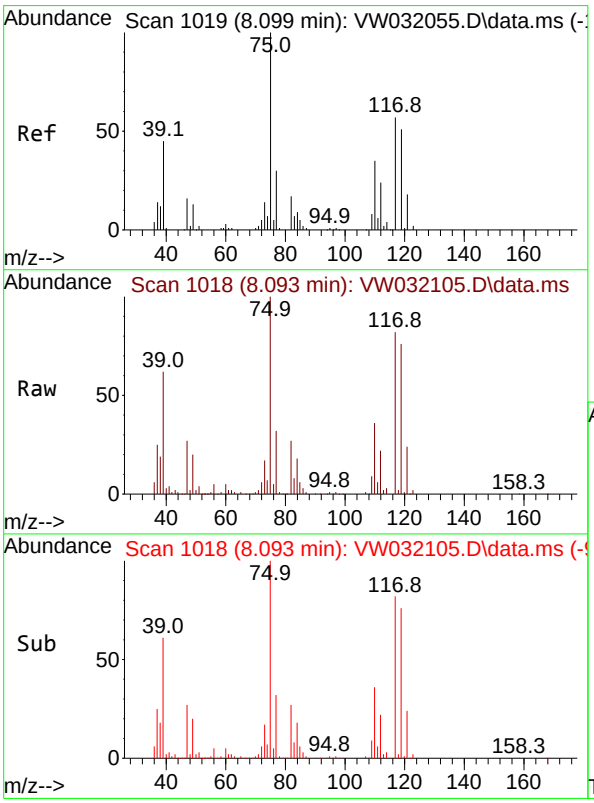
#35
Dibromofluoromethane
Concen: 54.222 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 119167

Ion	Ratio	Lower	Upper
113	100		
111	103.6	80.1	120.1
192	17.0	13.1	19.7

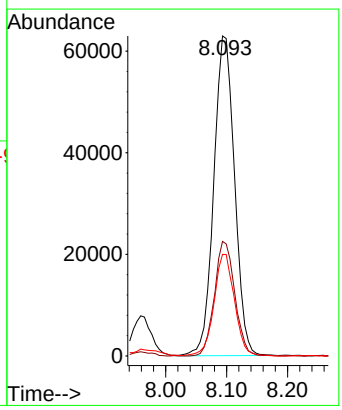


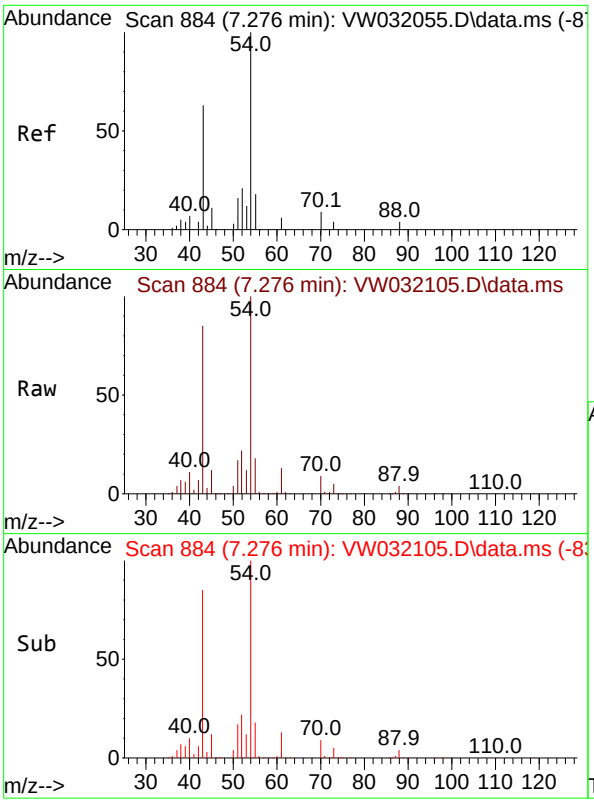


#36
1,1-Dichloropropene
Concen: 48.076 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 148951

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.4	24.7	37.1



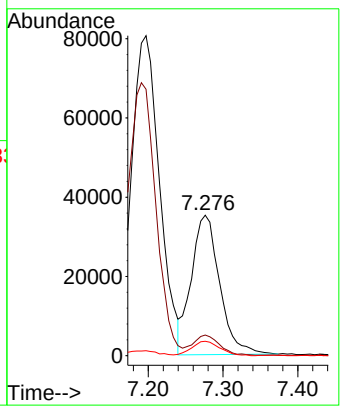


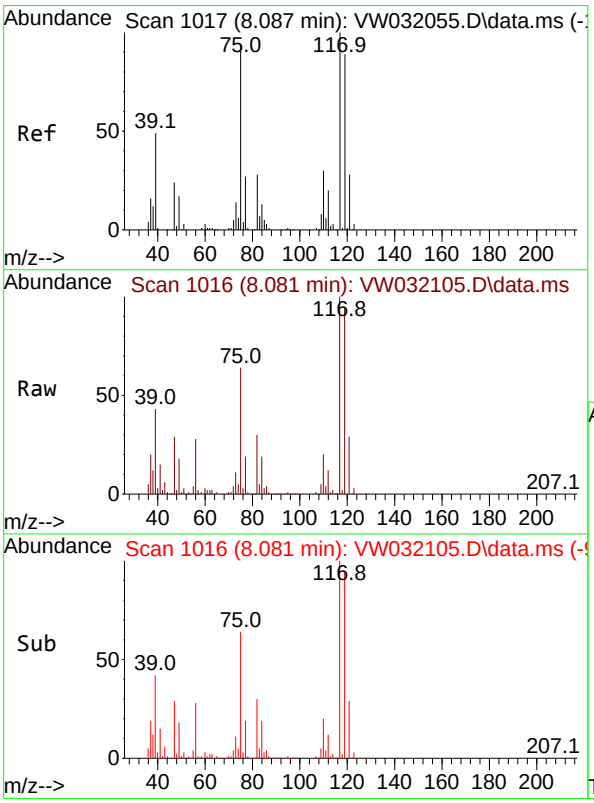
#37
Ethyl Acetate
Concen: 50.898 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 92875

Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.8	17.6
70	10.3	9.4	14.0

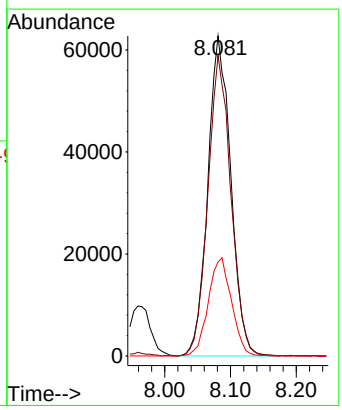


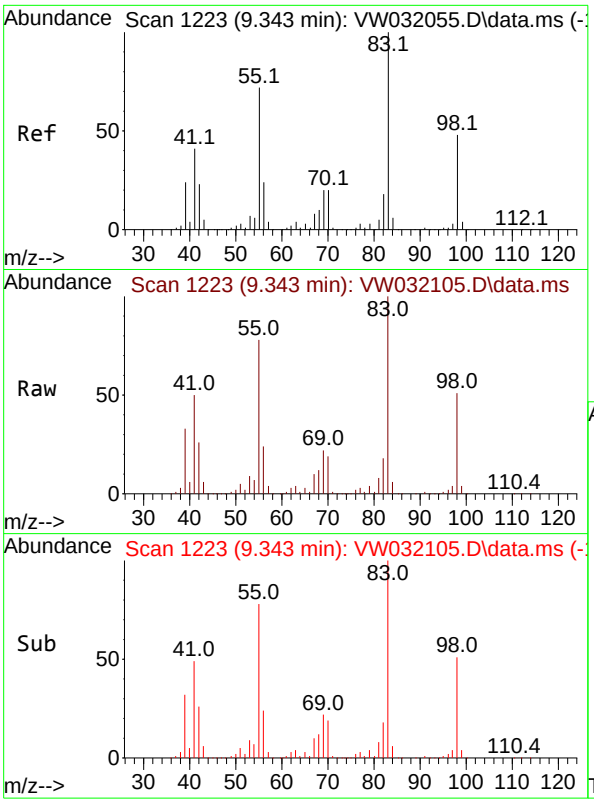


#38
Carbon Tetrachloride
Concen: 51.129 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:117 Resp: 152872

Ion	Ratio	Lower	Upper
117	100		
119	93.8	71.4	107.2
121	29.3	22.3	33.5



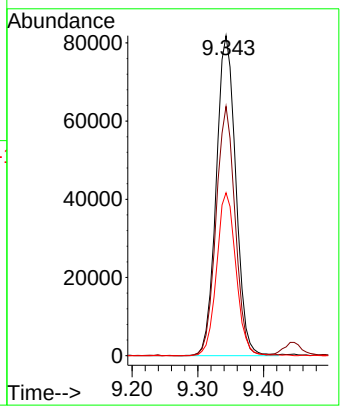


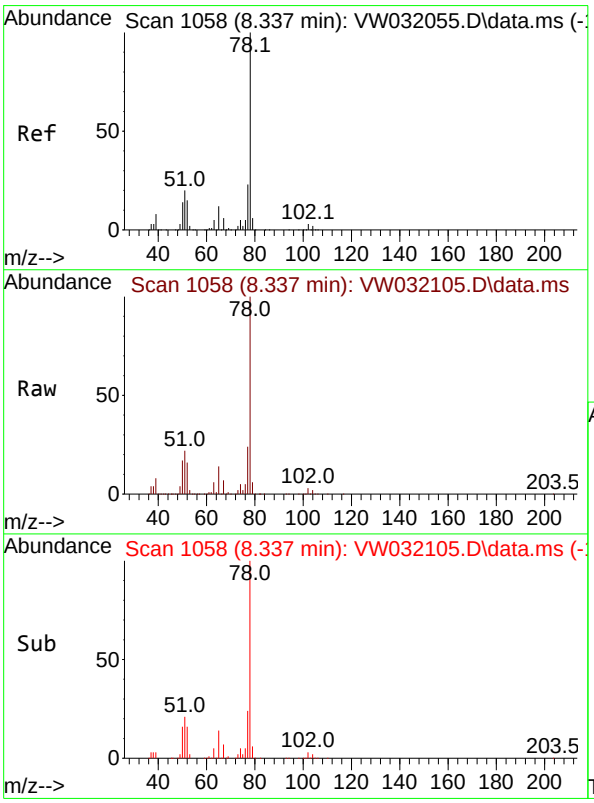
#39
Methylcyclohexane
Concen: 44.891 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 169525

Ion	Ratio	Lower	Upper
83	100		
55	77.9	57.9	86.9
98	50.9	38.3	57.5

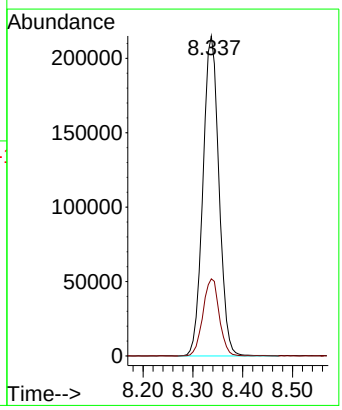


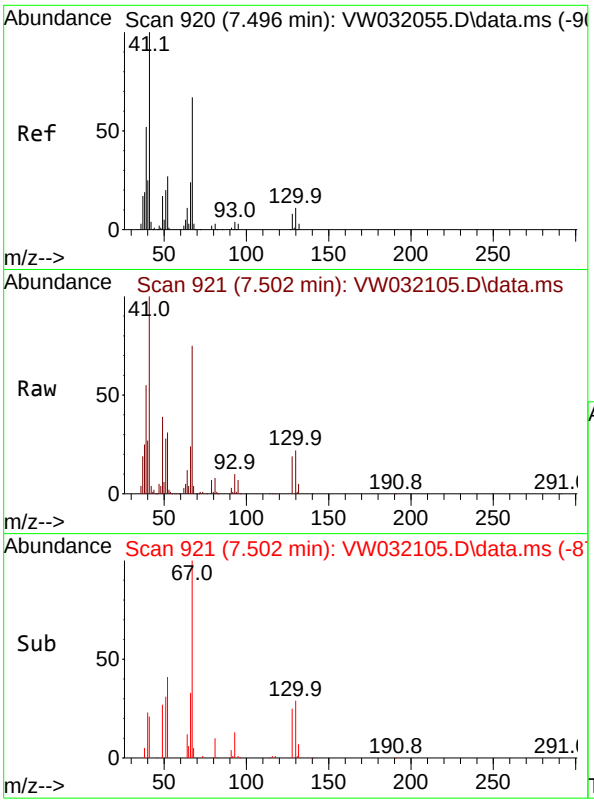


#40
Benzene
Concen: 49.865 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 78 Resp: 480231

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.4	27.6



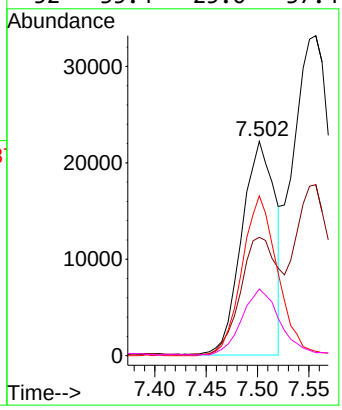


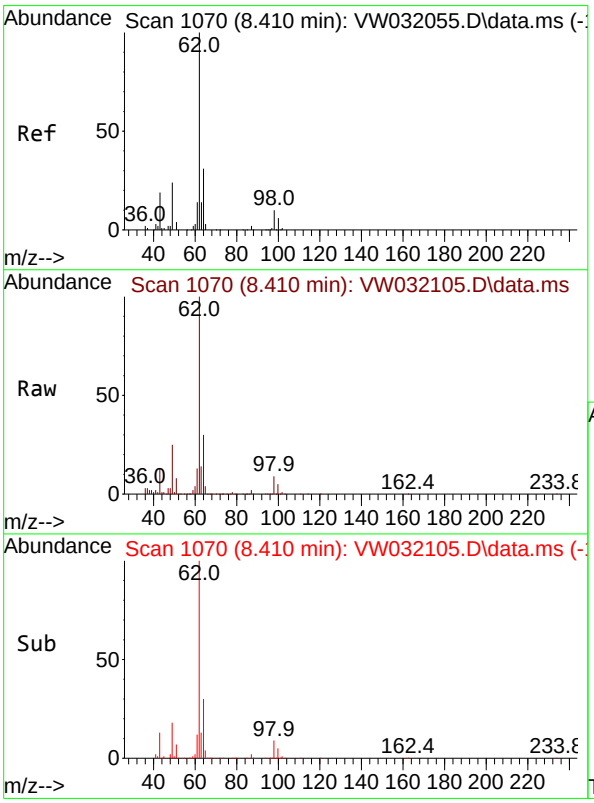
#41
Methacrylonitrile
Concen: 48.528 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 50217

Ion	Ratio	Lower	Upper
41	100		
39	63.7	42.6	63.8
67	80.8	61.0	91.4
52	35.4	25.0	37.4

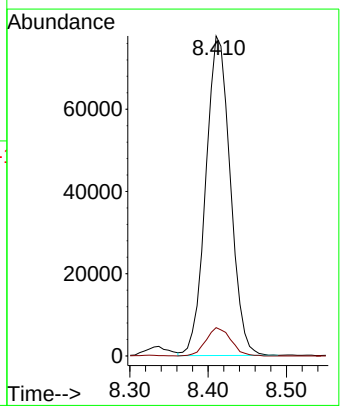


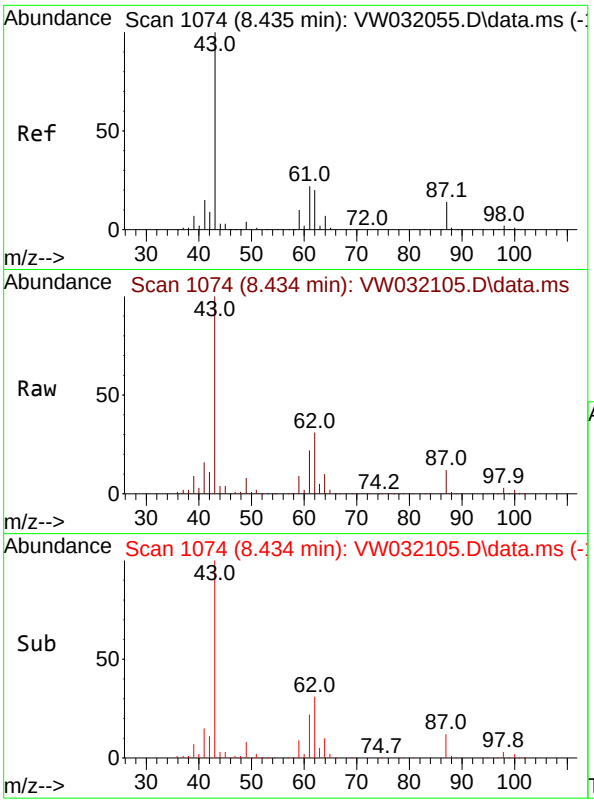


#42
1,2-Dichloroethane
Concen: 54.726 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 62 Resp: 168647

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	19.8



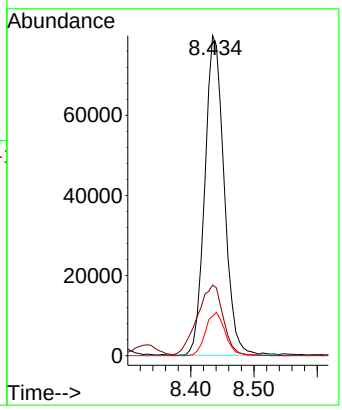


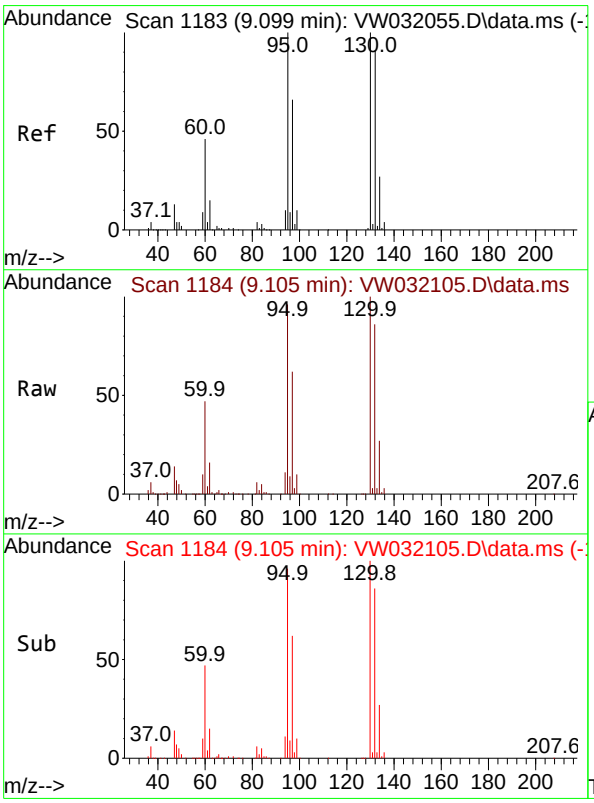
#43
Isopropyl Acetate
Concen: 50.564 ug/l
RT: 8.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 169753

Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.8	35.8
87	13.9	11.7	17.5

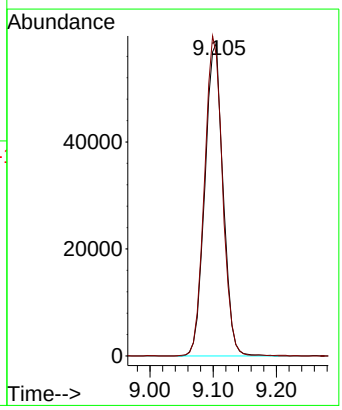


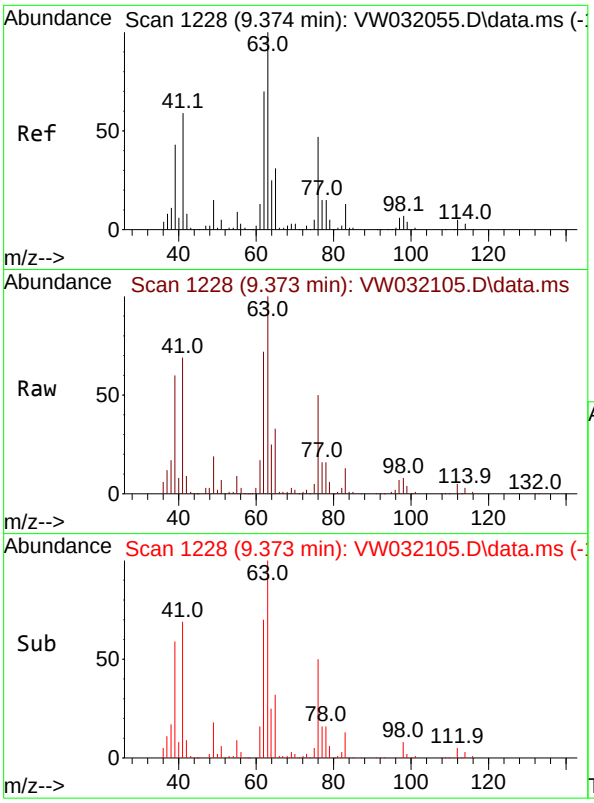


#44
Trichloroethene
Concen: 50.915 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:130 Resp: 116771

Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	200.6



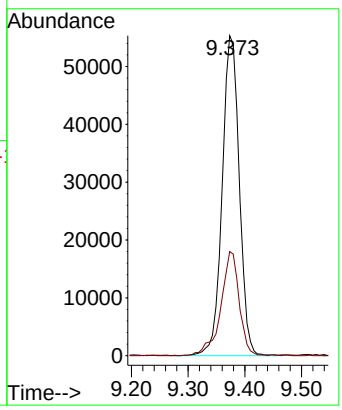


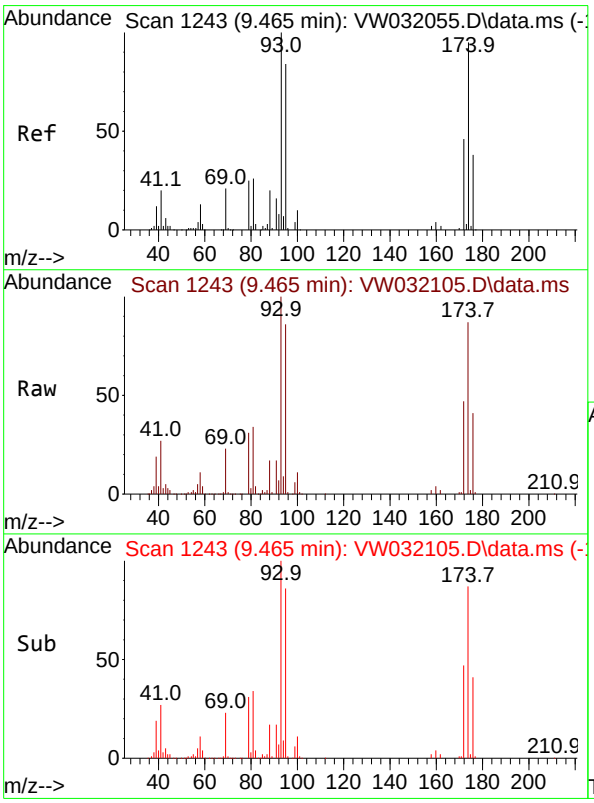
#45
1,2-Dichloropropane
Concen: 49.769 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 115794

Ion	Ratio	Lower	Upper
63	100		
65	32.6	24.6	36.8

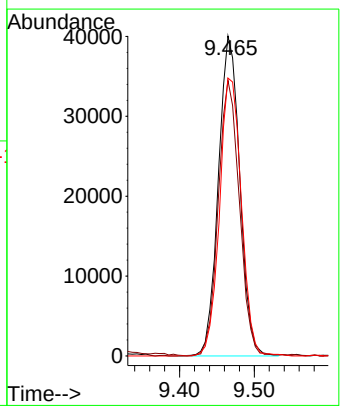


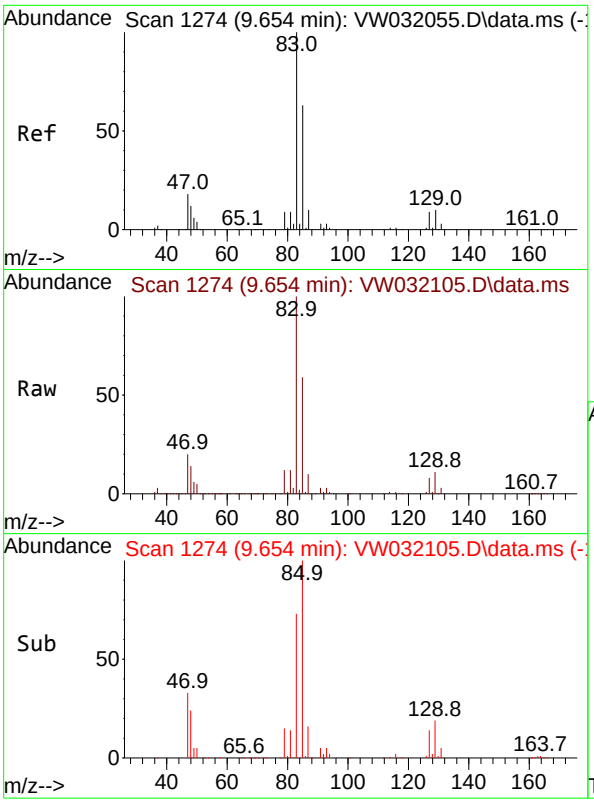


#46
Dibromomethane
Concen: 53.105 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 93 Resp: 79744

Ion	Ratio	Lower	Upper
93	100		
95	85.2	65.3	97.9
174	88.7	68.6	102.8



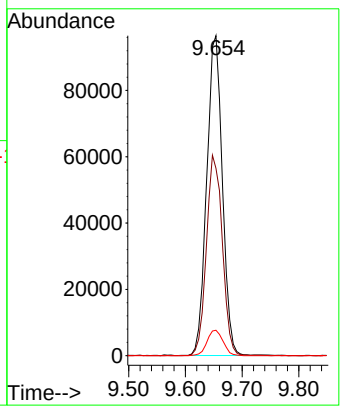


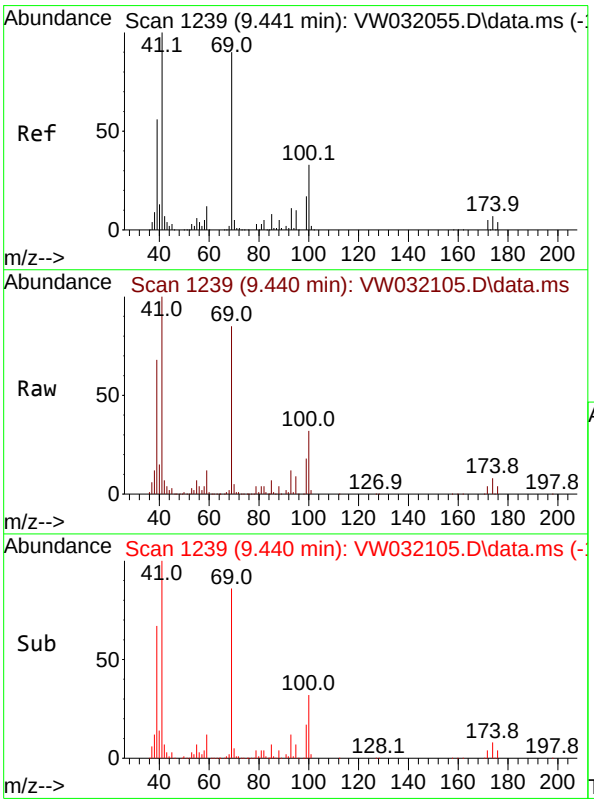
#47
Bromodichloromethane
Concen: 53.359 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 184629

Ion	Ratio	Lower	Upper
83	100		
85	58.6	50.6	75.8
127	8.0	6.9	10.3

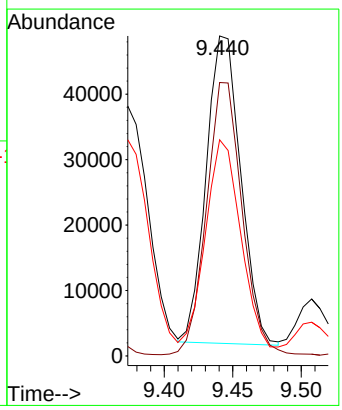


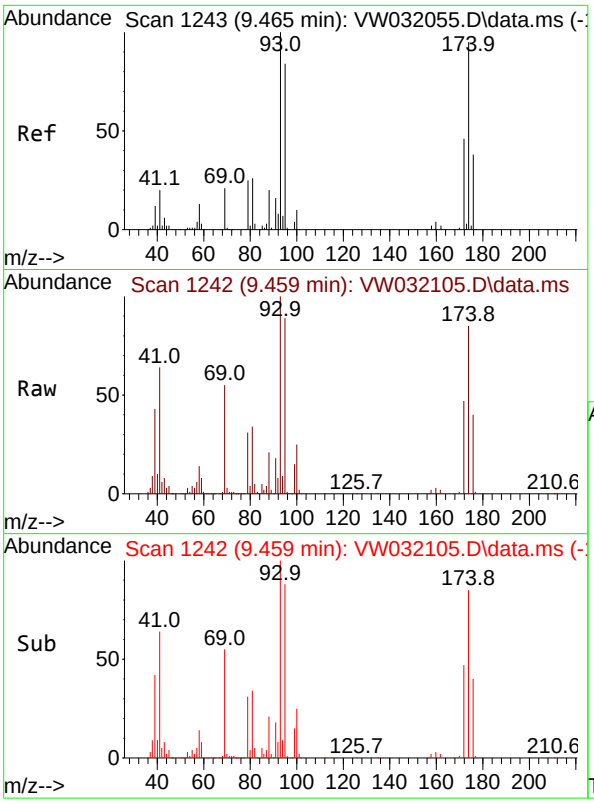


#48
Methyl methacrylate
Concen: 50.886 ug/l
RT: 9.440 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 41 Resp: 82474

Ion	Ratio	Lower	Upper
41	100		
69	91.9	73.0	109.6
39	74.0	45.0	67.4#



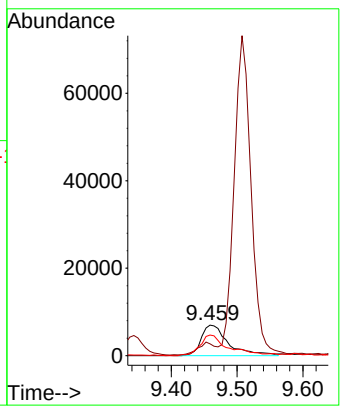


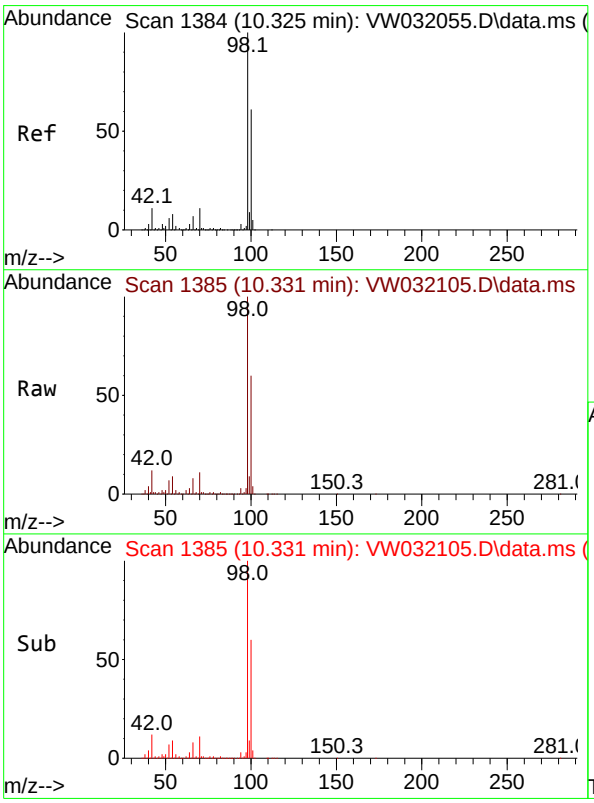
#49
1,4-Dioxane
Concen: 1041.083 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 20213

Ion	Ratio	Lower	Upper
88	100		
43	27.2	20.6	30.8
58	68.8	60.4	90.6

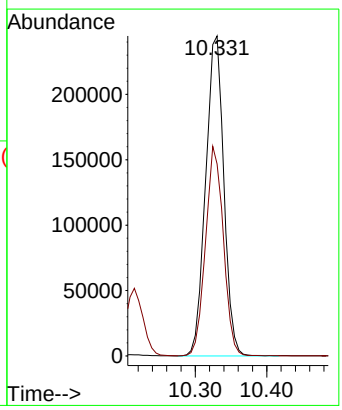


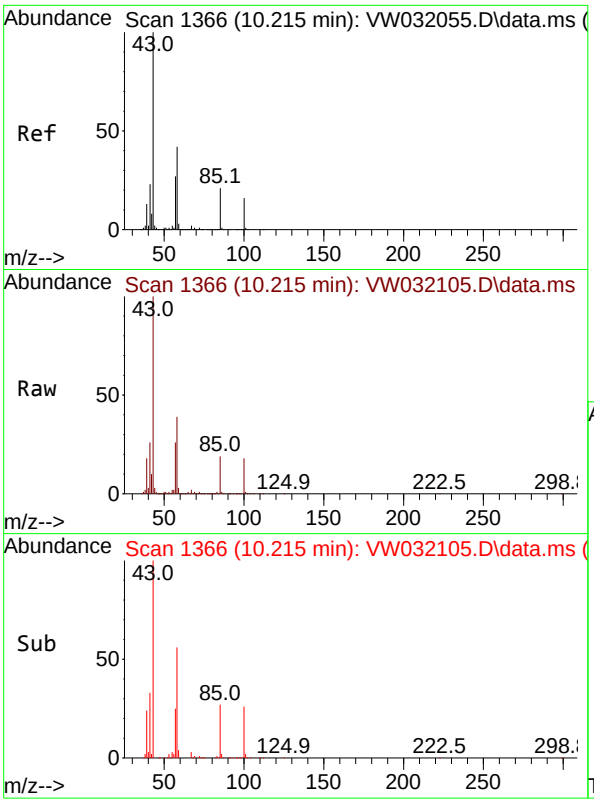


#50
Toluene-d8
Concen: 53.076 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 98 Resp: 431442

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7



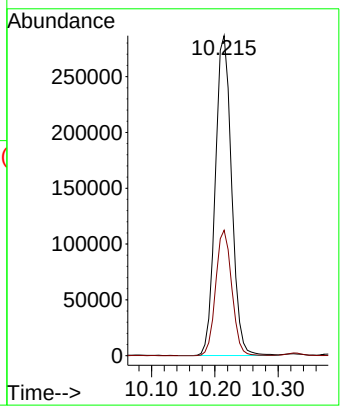


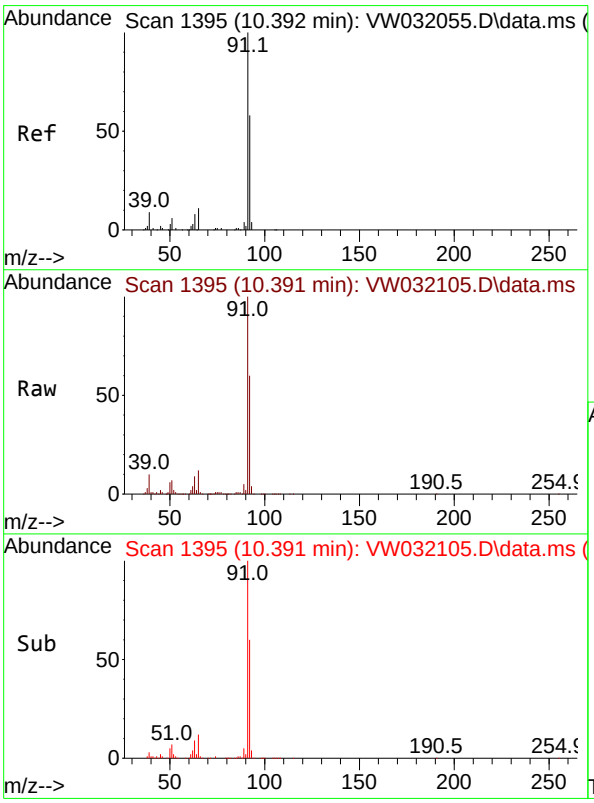
#51
4-Methyl-2-Pentanone
Concen: 269.316 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 510331

Ion	Ratio	Lower	Upper
43	100		
58	38.9	33.1	49.7

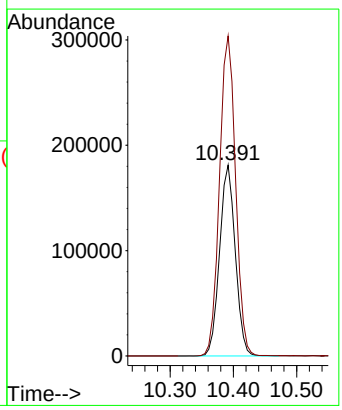


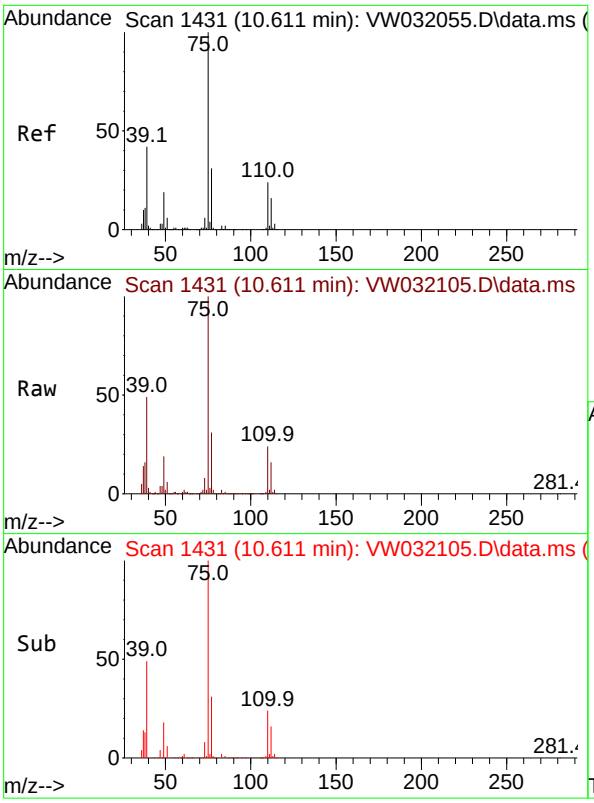


#52
Toluene
Concen: 51.219 ug/l
RT: 10.391 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 92 Resp: 310694

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.3	204.5



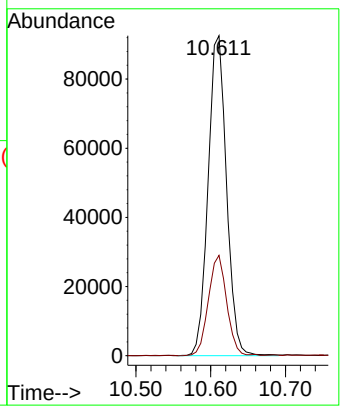


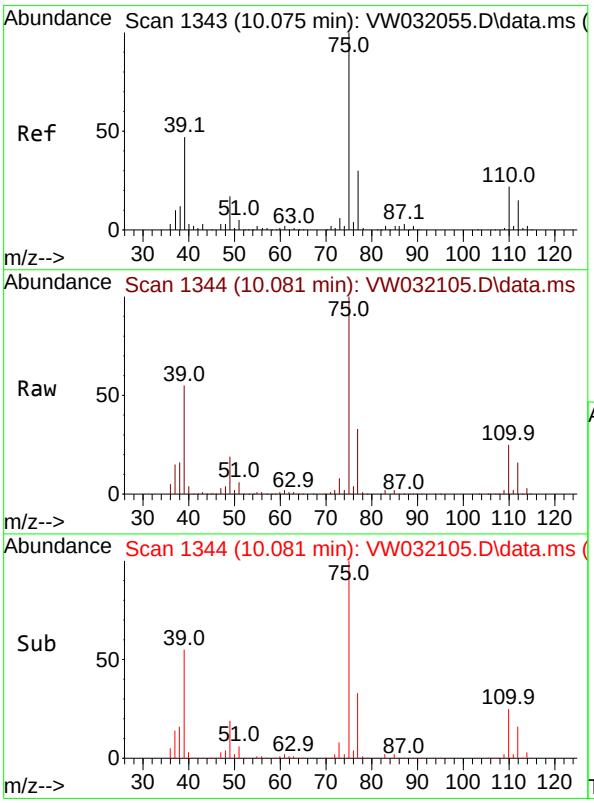
#53
t-1,3-Dichloropropene
Concen: 48.849 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 158355

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

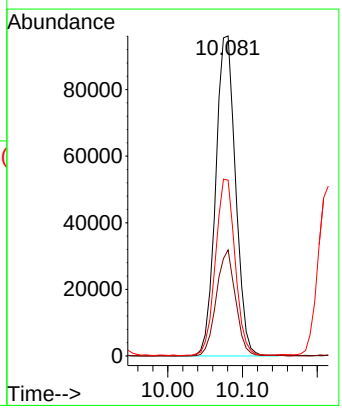


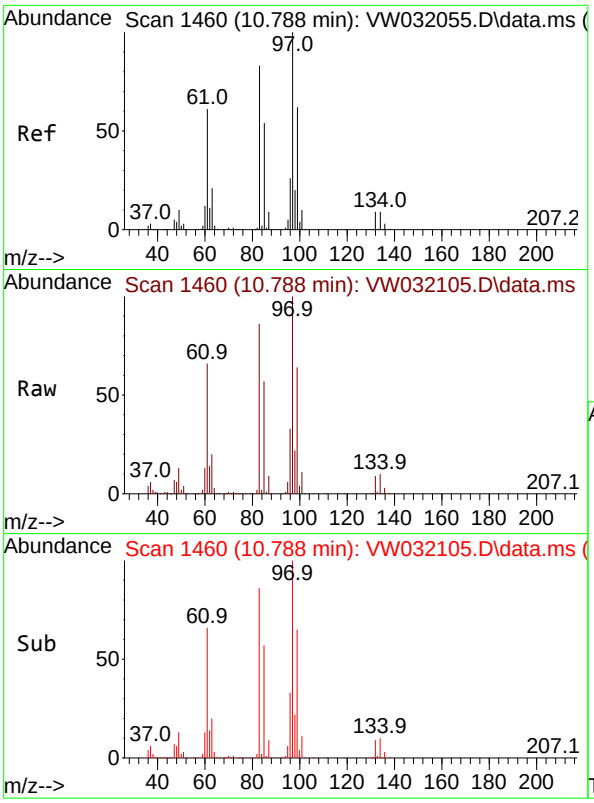


#54
cis-1,3-Dichloropropene
Concen: 48.366 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 177874

Ion	Ratio	Lower	Upper
75	100		
77	33.2	24.0	36.0
39	54.8	37.8	56.8



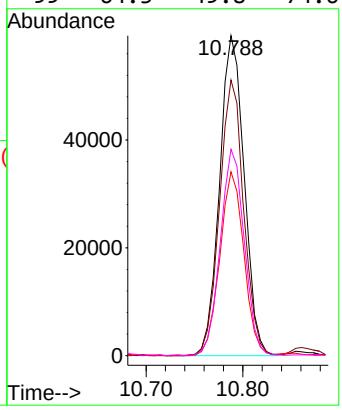


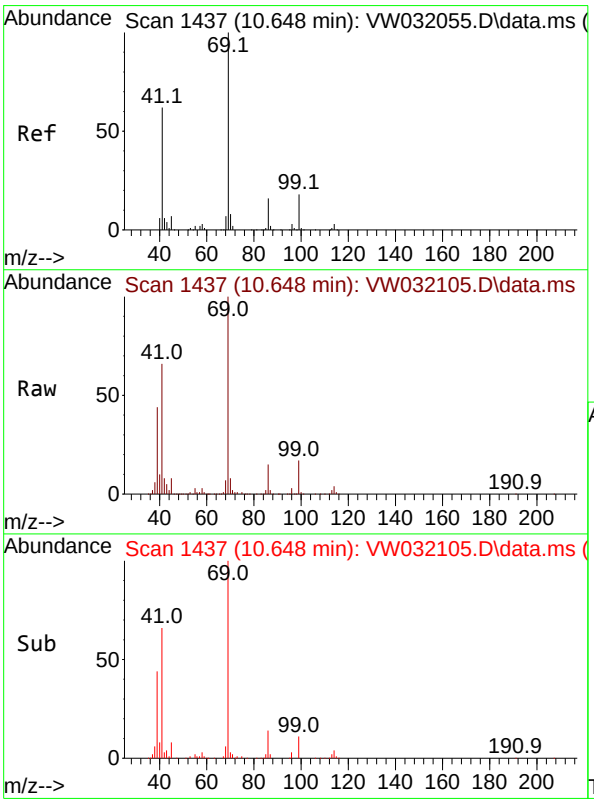
#55
1,1,2-Trichloroethane
Concen: 52.415 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 104590

Ion	Ratio	Lower	Upper
97	100		
83	85.9	66.4	99.6
85	57.5	43.1	64.7
99	64.3	49.8	74.6

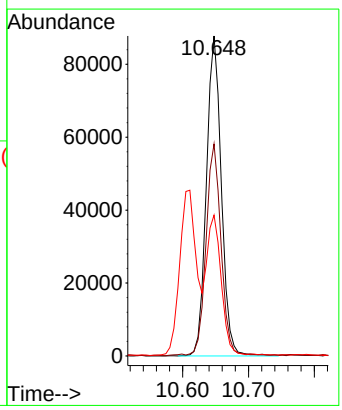


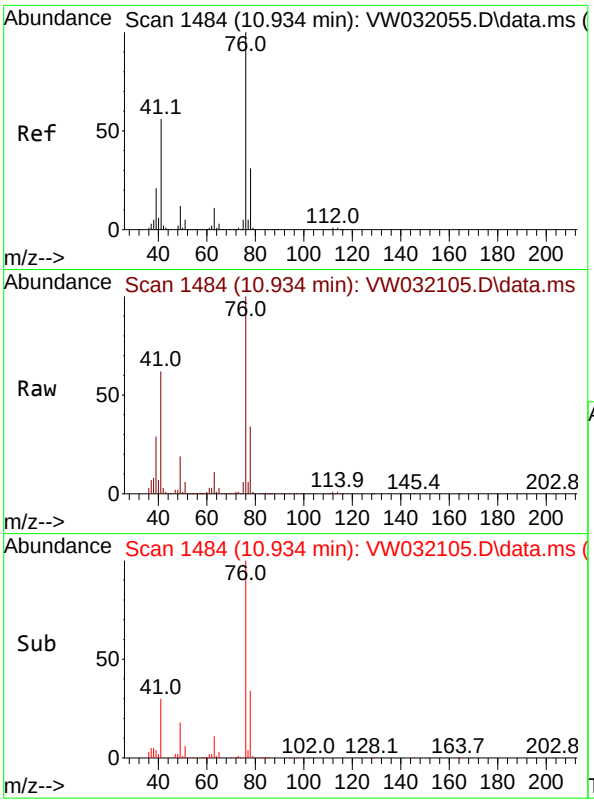


#56
Ethyl methacrylate
Concen: 51.993 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 69 Resp: 138833

Ion	Ratio	Lower	Upper
69	100		
41	66.2	51.2	76.8
39	41.9	25.4	38.0#



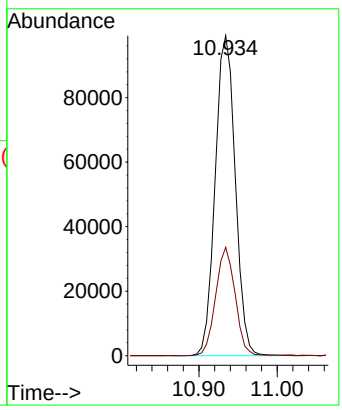


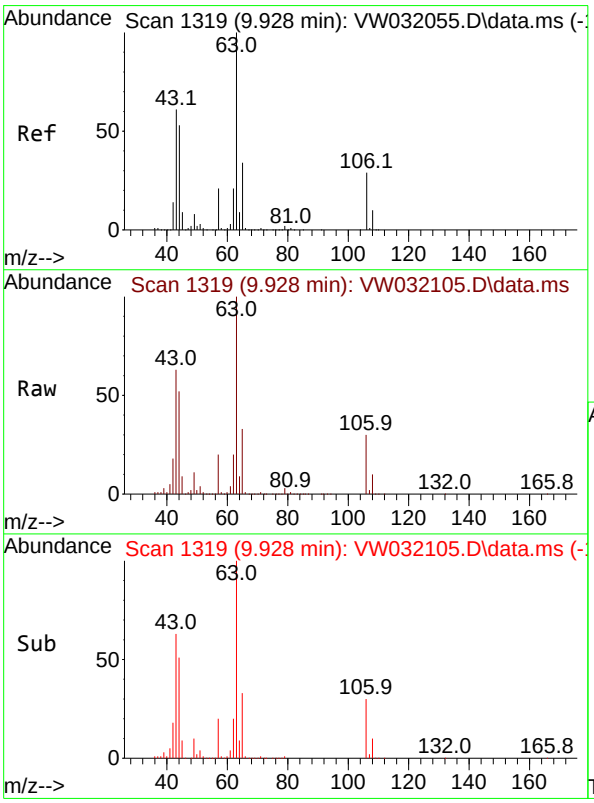
#57
1,3-Dichloropropane
Concen: 50.807 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 176713

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.6

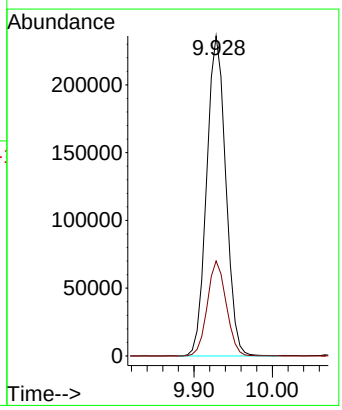


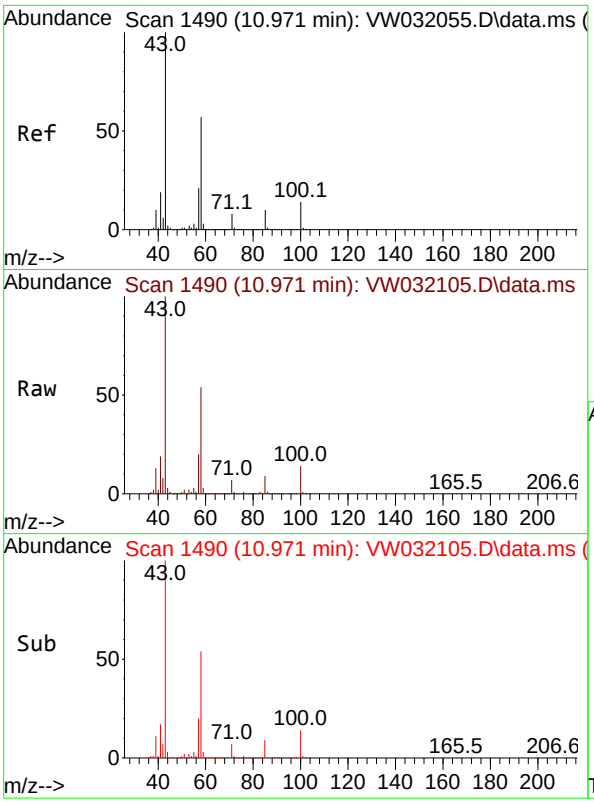


#58
2-Chloroethyl Vinyl ether
Concen: 271.010 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 63 Resp: 400276

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.5	35.3



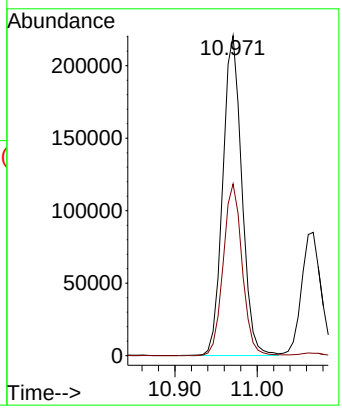


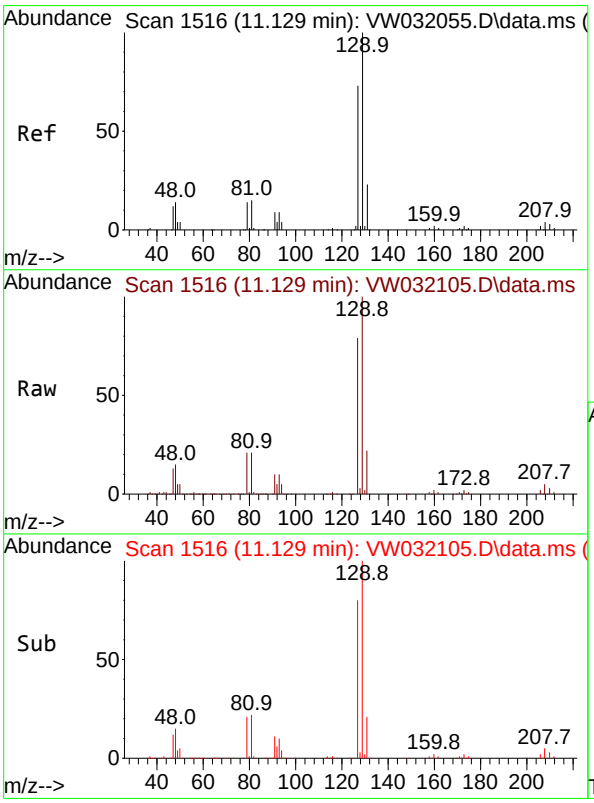
#59
2-Hexanone
Concen: 270.484 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 354969

Ion	Ratio	Lower	Upper
43	100		
58	53.6	28.3	85.0

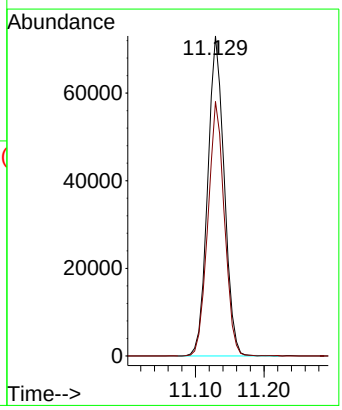


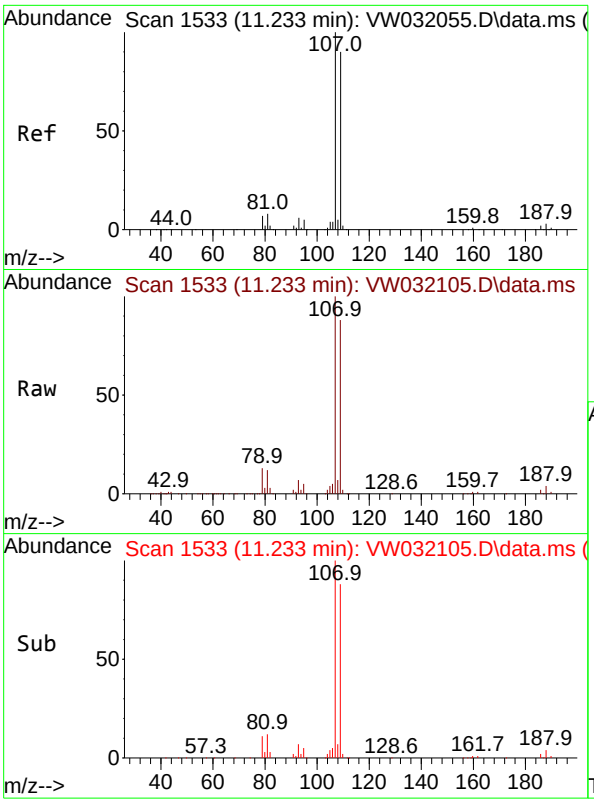


#60
Dibromochloromethane
Concen: 53.691 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:129 Resp: 122381

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.0	116.9



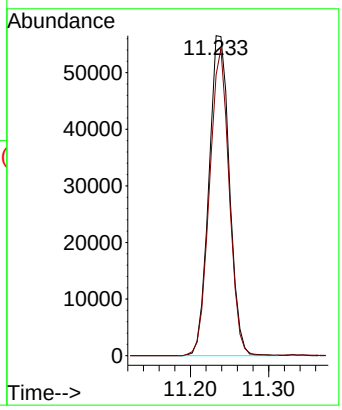


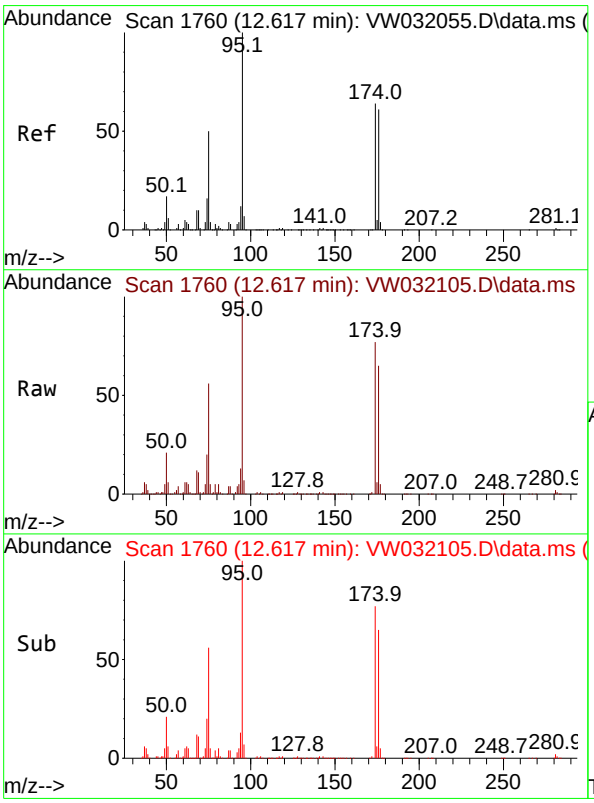
#61
1,2-Dibromoethane
Concen: 53.107 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 102979

Ion	Ratio	Lower	Upper
107	100		
109	91.6	74.2	111.4

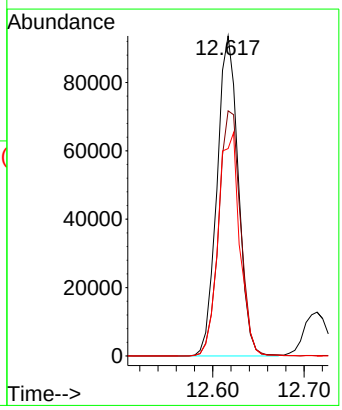


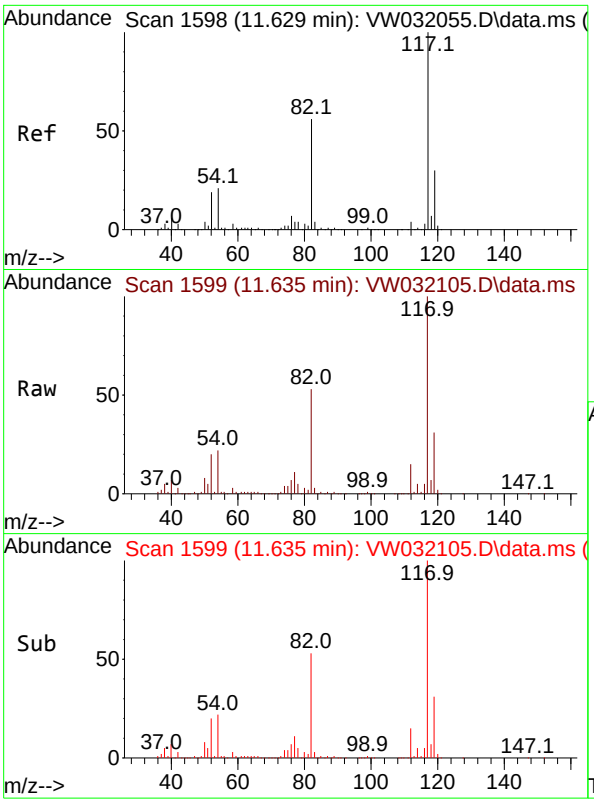


#62
4-Bromofluorobenzene
Concen: 50.684 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 95 Resp: 151827

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	129.0
176	71.1	0.0	124.6



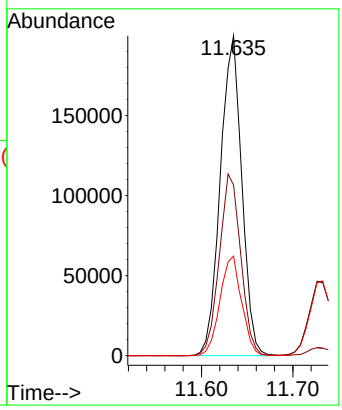


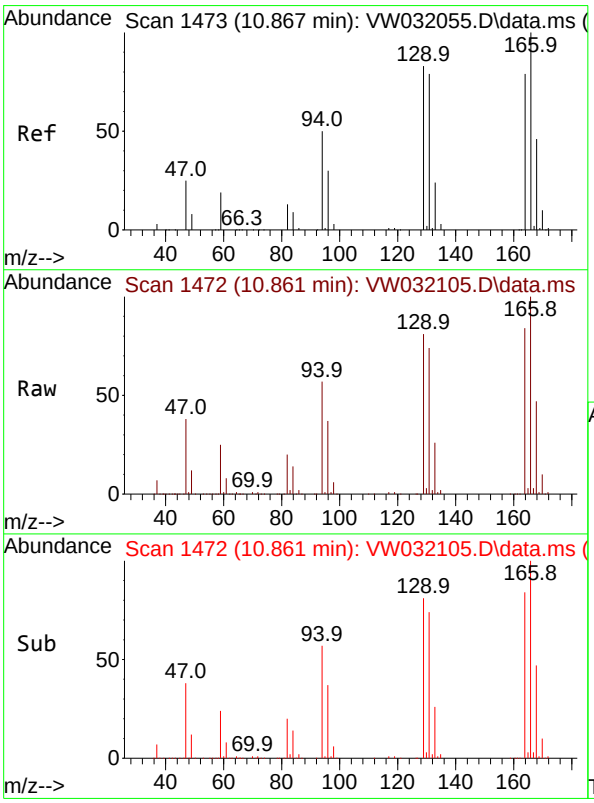
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 325940

Ion	Ratio	Lower	Upper
117	100		
82	53.3	45.0	67.4
119	31.1	24.2	36.4

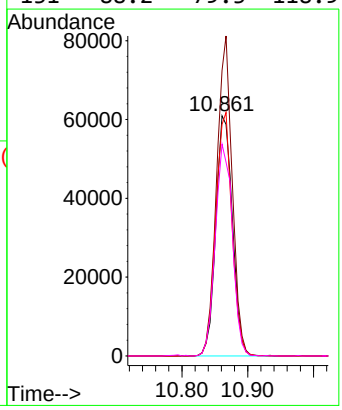


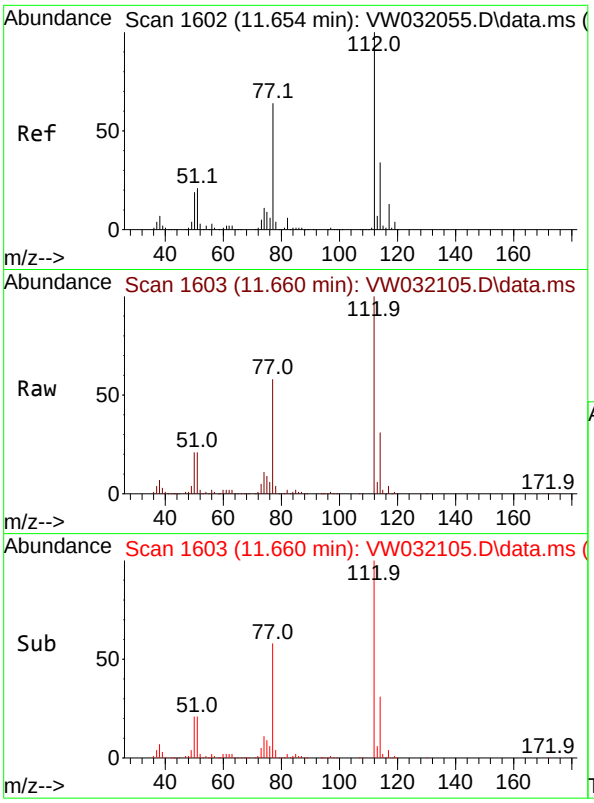


#64
Tetrachloroethene
Concen: 56.838 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:164 Resp: 107005

Ion	Ratio	Lower	Upper
164	100		
166	118.8	100.9	151.3
129	96.4	83.6	125.4
131	88.2	79.3	118.9



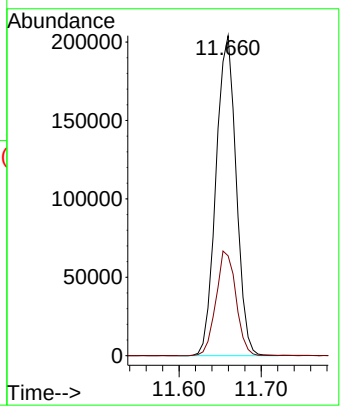


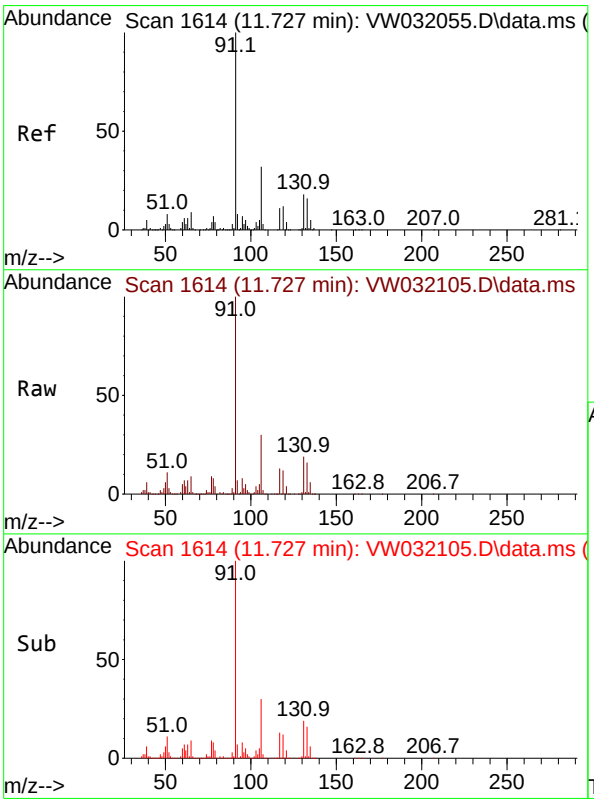
#65
Chlorobenzene
Concen: 49.157 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 348750

Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.9	40.3

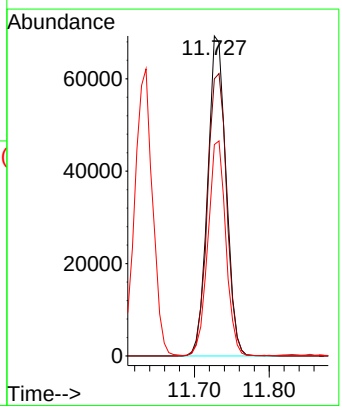


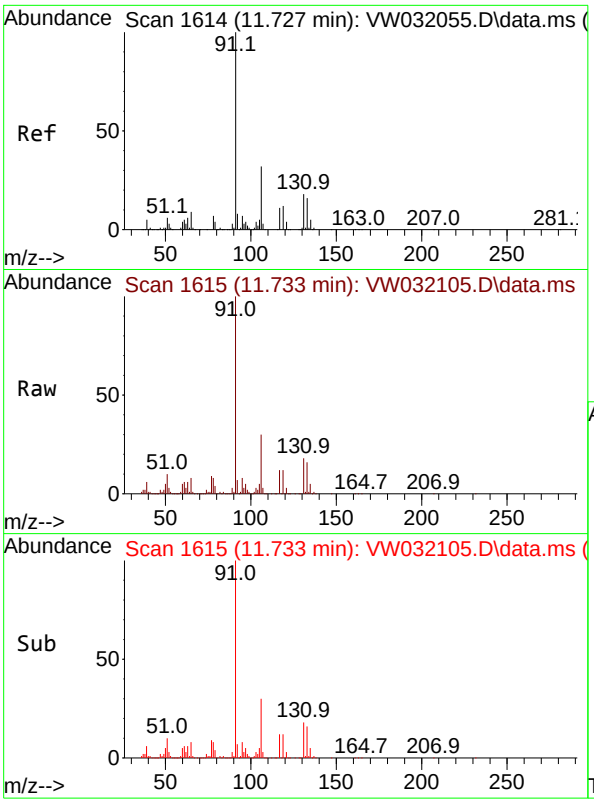


#66
1,1,1,2-Tetrachloroethane
Concen: 53.648 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:131 Resp: 118751

Ion	Ratio	Lower	Upper
131	100		
133	92.1	47.3	142.0
119	65.1	34.5	103.5



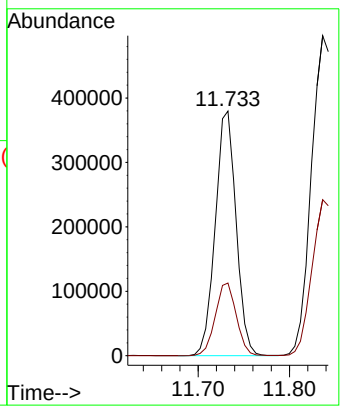


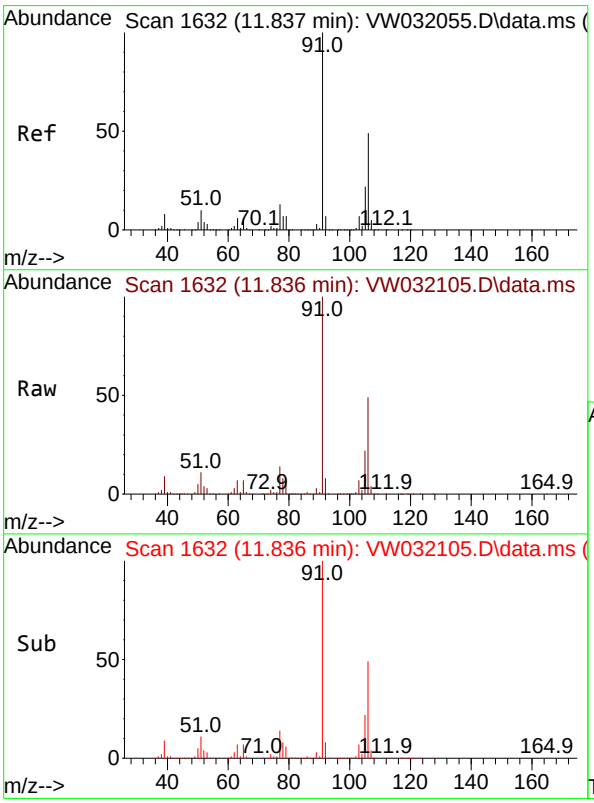
#67
Ethyl Benzene
Concen: 50.069 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 601685

Ion	Ratio	Lower	Upper
91	100		
106	29.7	25.4	38.0

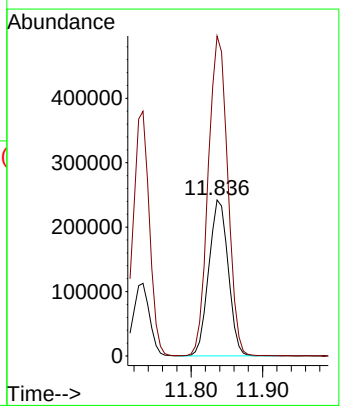


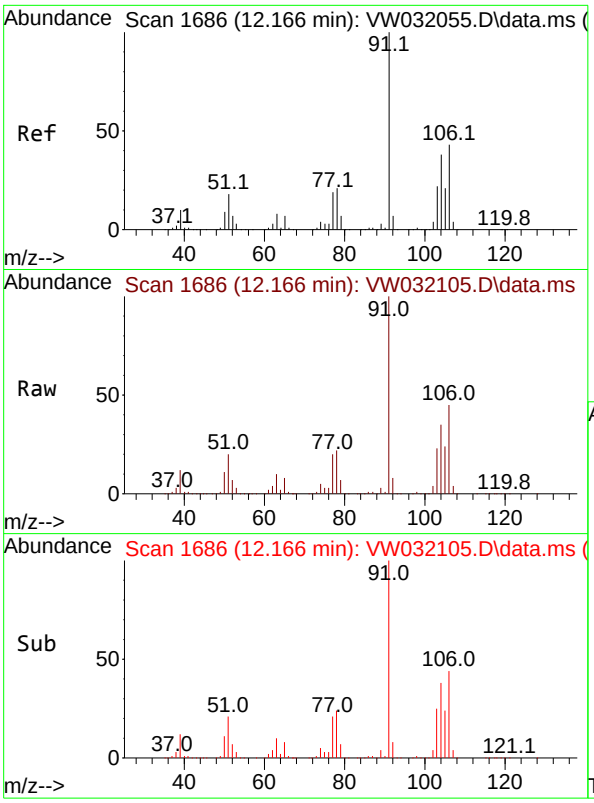


#68
m/p-Xylenes
Concen: 98.314 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:106 Resp: 455888

Ion	Ratio	Lower	Upper
106	100		
91	206.4	162.2	243.2



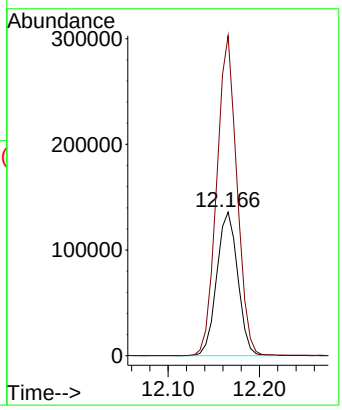


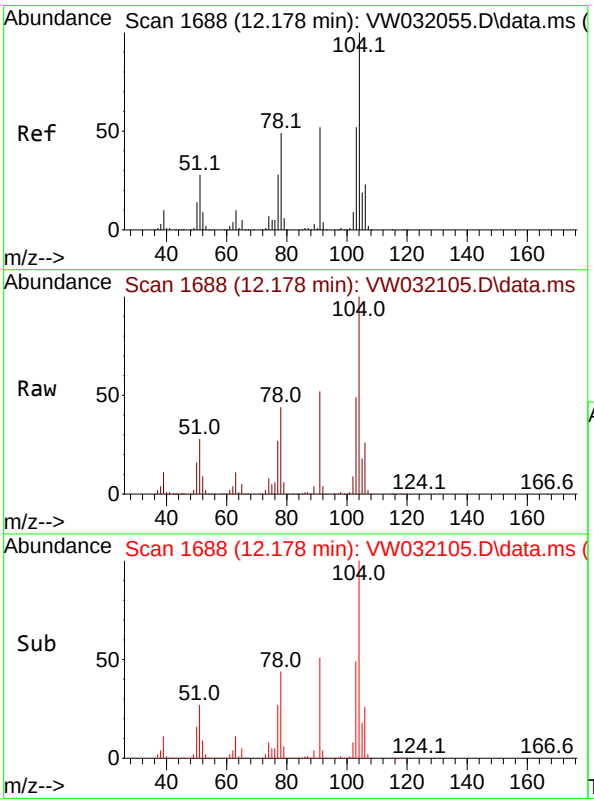
#69
o-Xylene
Concen: 50.609 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 216903

Ion	Ratio	Lower	Upper
106	100		
91	215.1	110.8	332.3

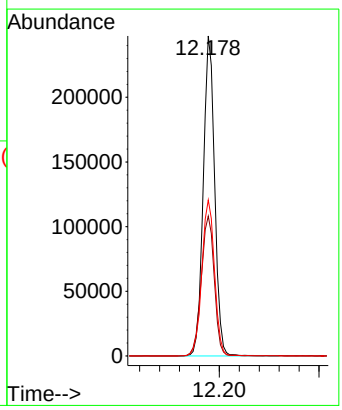


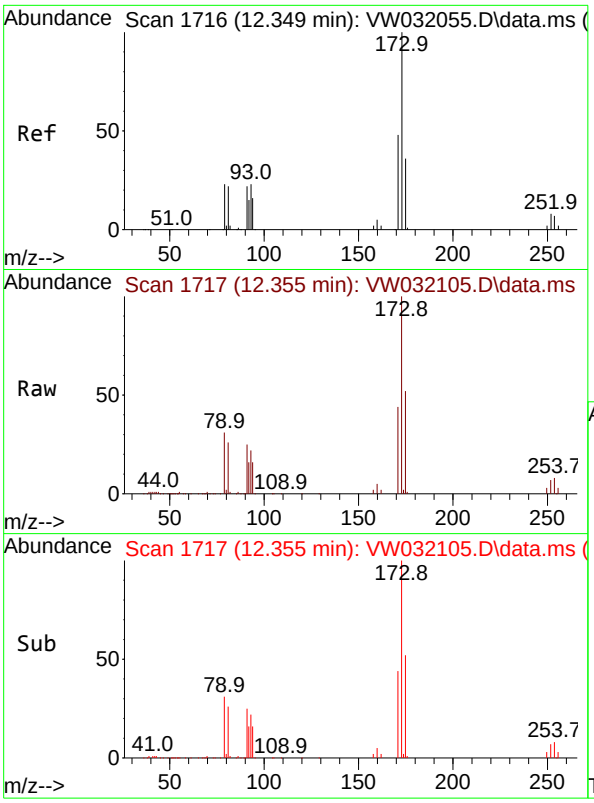


#70
Styrene
Concen: 51.563 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:104 Resp: 392538

Ion	Ratio	Lower	Upper
104	100		
78	50.0	41.2	61.8
103	54.2	43.8	65.8



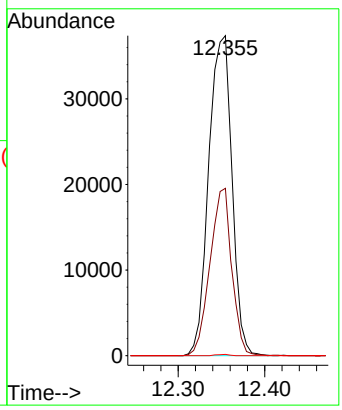


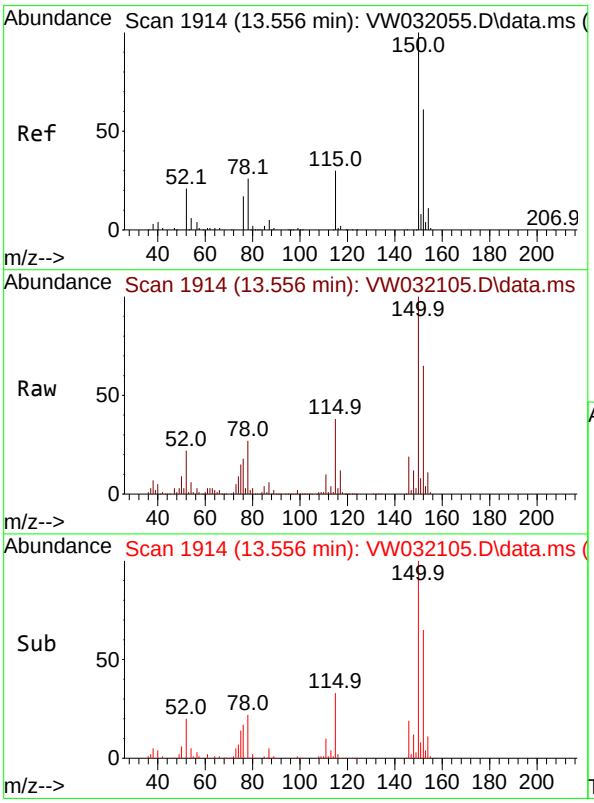
#71
Bromoform
Concen: 55.047 ug/l
RT: 12.355 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 69699

Ion	Ratio	Lower	Upper
173	100		
175	49.1	22.9	68.7
254	0.2	0.0	0.0#

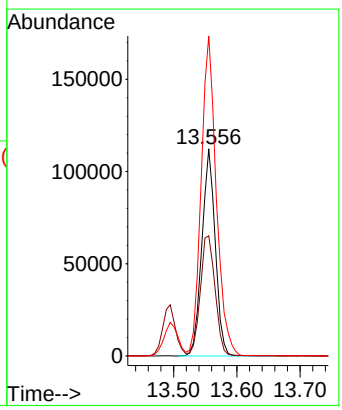


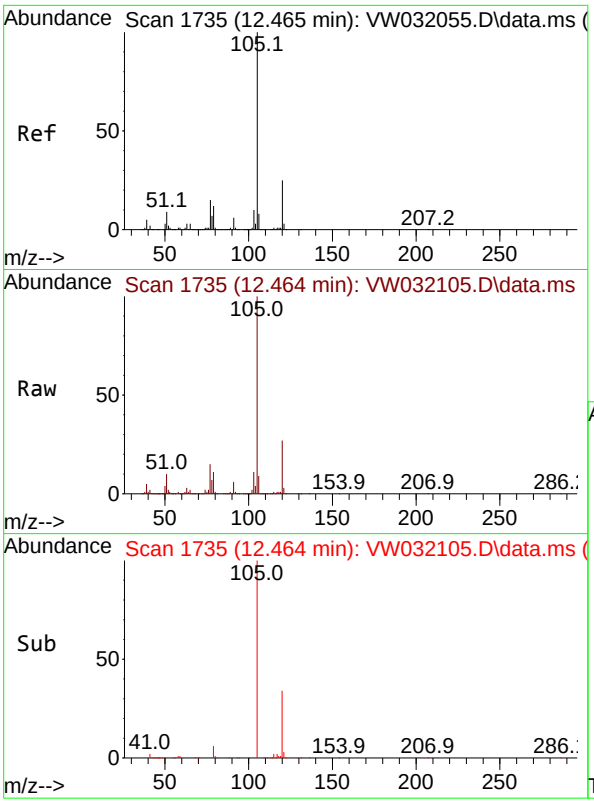


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:152 Resp: 166040

Ion	Ratio	Lower	Upper
152	100		
115	63.7	32.6	97.8
150	174.1	0.0	359.4



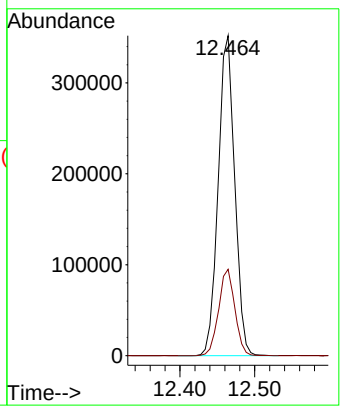


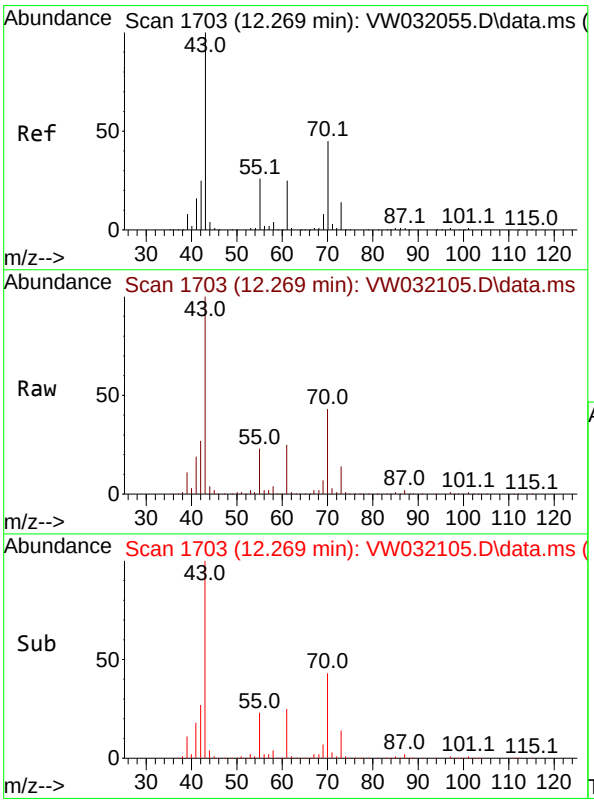
#73
Isopropylbenzene
Concen: 46.544 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 540086

Ion	Ratio	Lower	Upper
105	100		
120	26.6	12.8	38.4

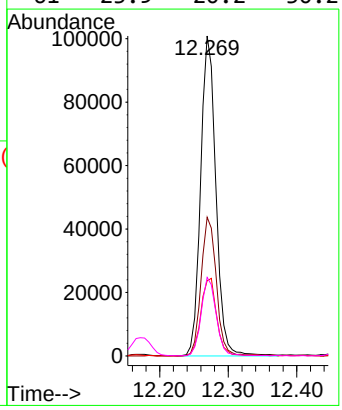


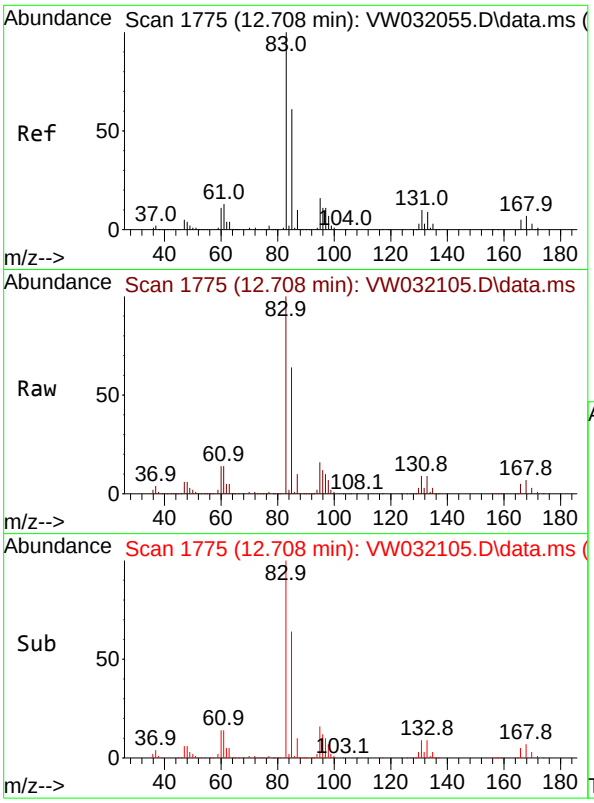


#74
N-amyl acetate
Concen: 47.086 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 43 Resp: 156756

Ion	Ratio	Lower	Upper
43	100		
70	43.4	37.0	55.4
55	25.1	21.1	31.7
61	23.9	20.2	30.2



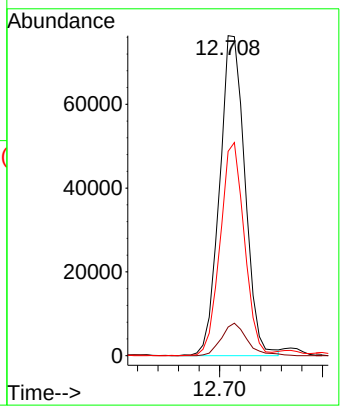


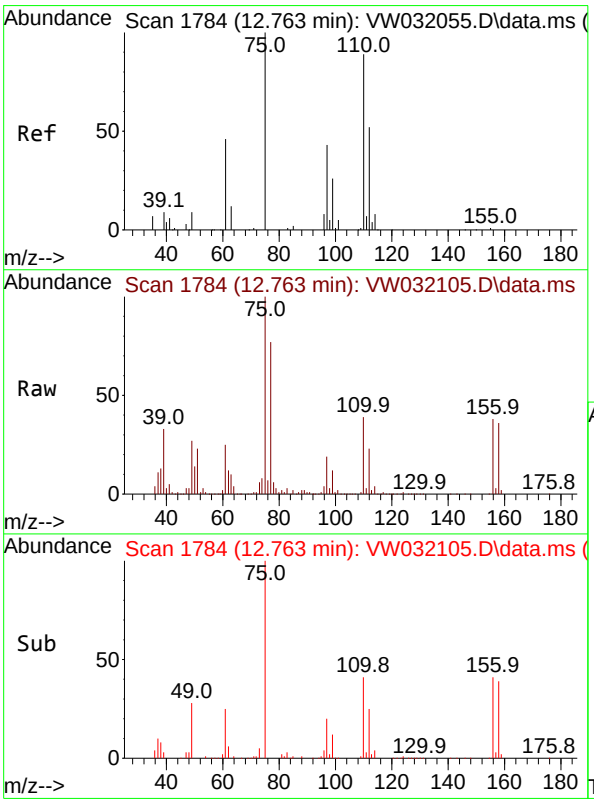
#75
1,1,2,2-Tetrachloroethane
Concen: 47.526 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 130940

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.7	32.2	96.6

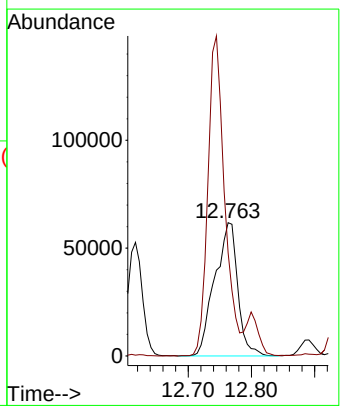


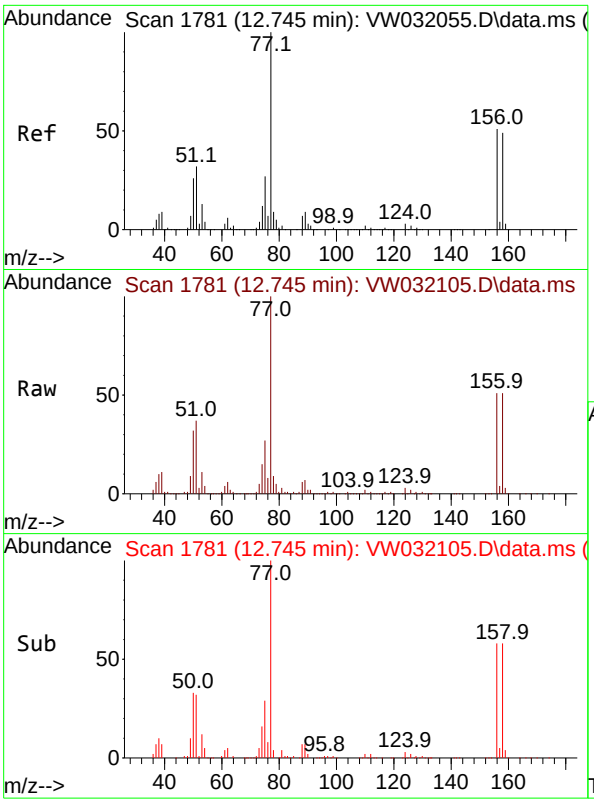


#76
1,2,3-Trichloropropane
Concen: 69.173 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 155884

Ion	Ratio	Lower	Upper
75	100		
77	175.2	123.5	370.5



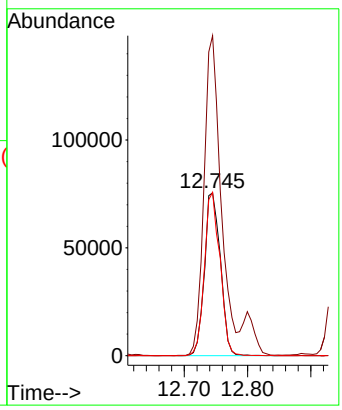


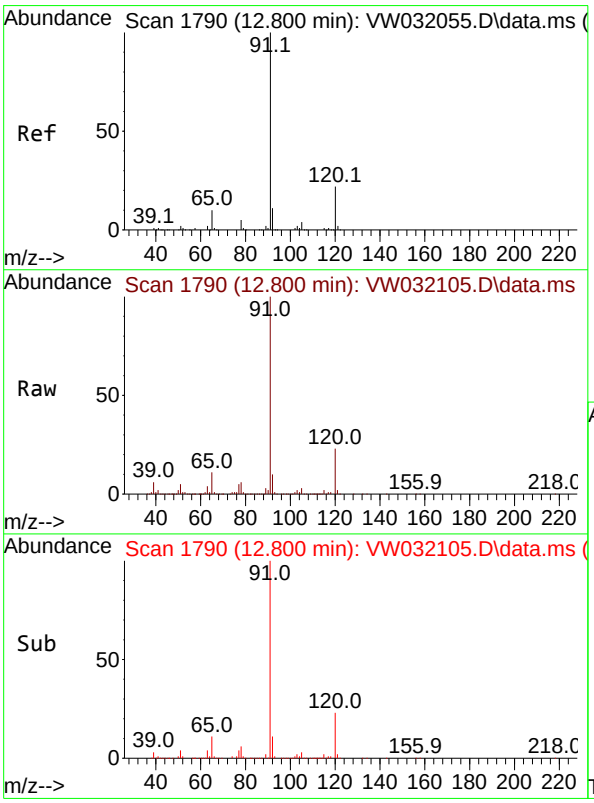
#77
Bromobenzene
Concen: 47.862 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 132649

Ion	Ratio	Lower	Upper
156	100		
77	205.9	108.7	326.3
158	98.2	48.3	144.9

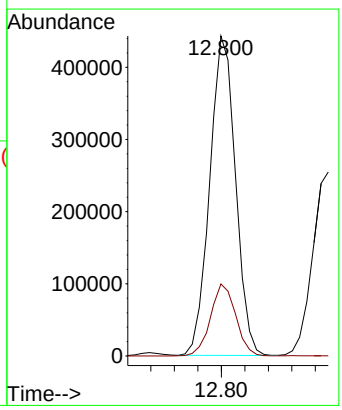


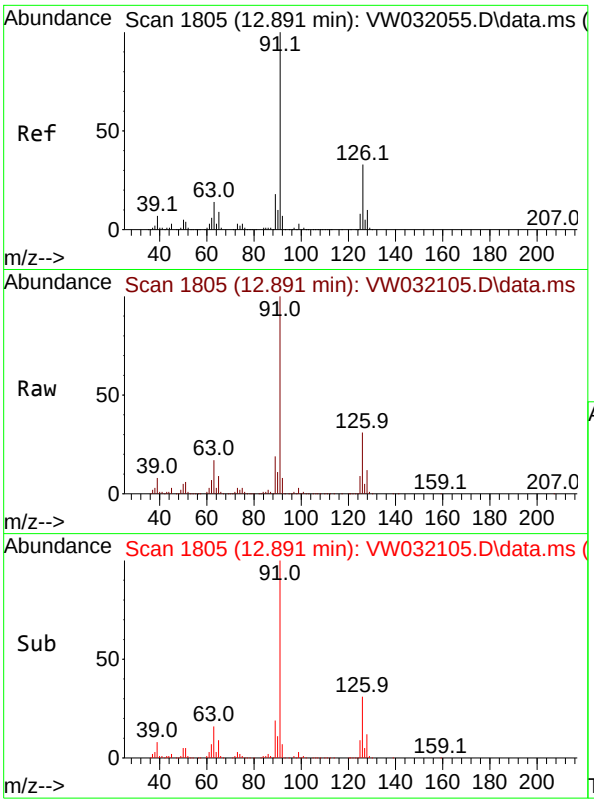


#78
n-propylbenzene
Concen: 47.233 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 674775

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3



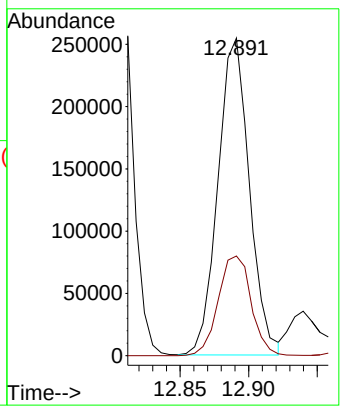


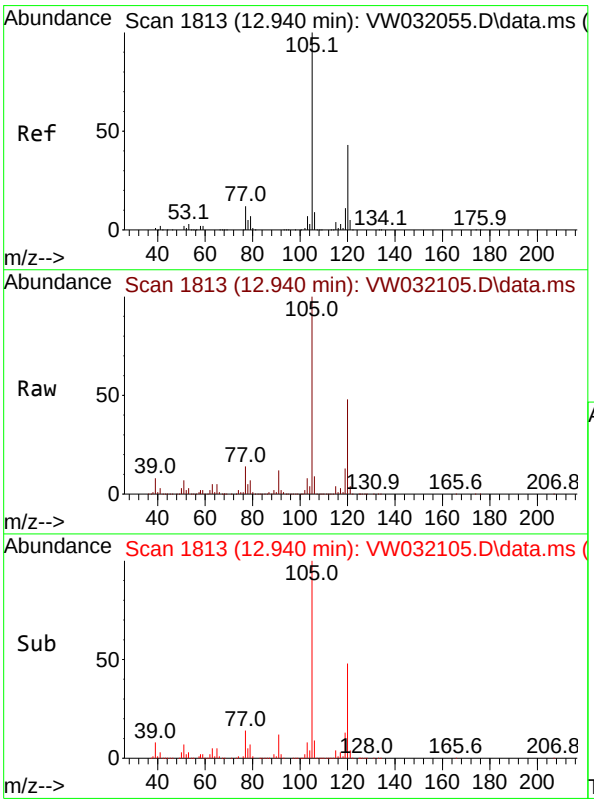
#79
2-Chlorotoluene
Concen: 46.044 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 405968

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.9	47.7

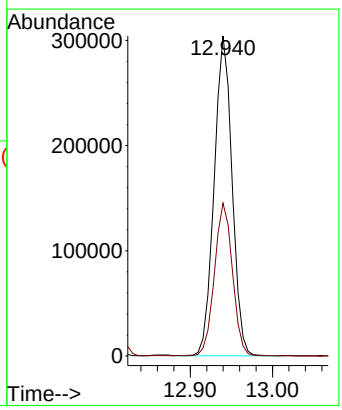


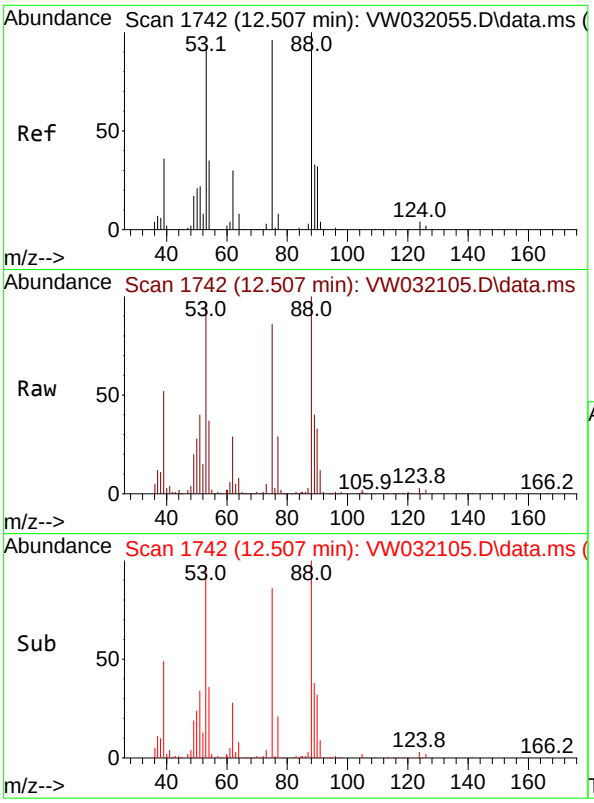


#80
1,3,5-Trimethylbenzene
Concen: 46.706 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:105 Resp: 460118

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.4	70.0



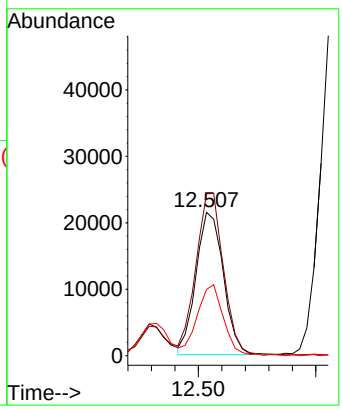


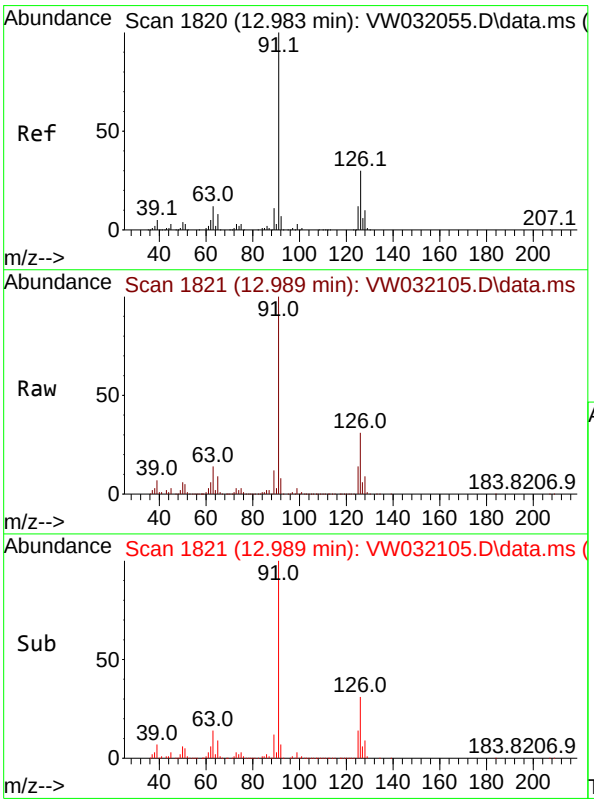
#81
trans-1,4-Dichloro-2-butene
Concen: 39.765 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 34614

Ion	Ratio	Lower	Upper
75	100		
53	114.9	81.0	121.6
89	48.3	37.3	55.9

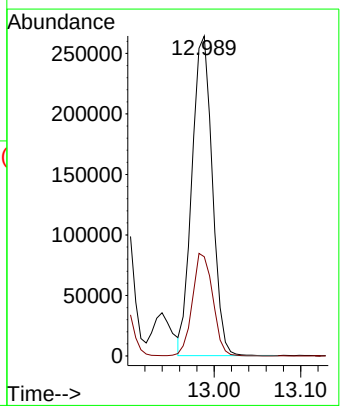


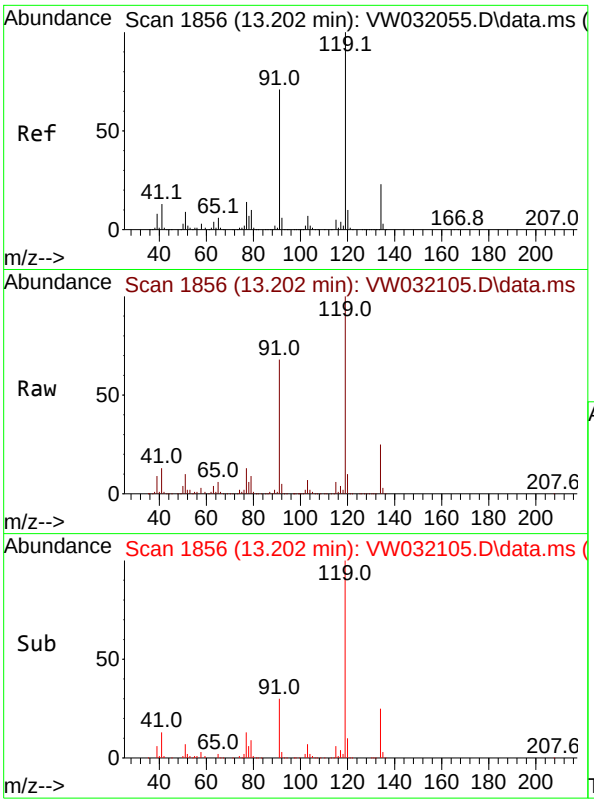


#82
4-Chlorotoluene
Concen: 46.038 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 91 Resp: 431266

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.5	46.5



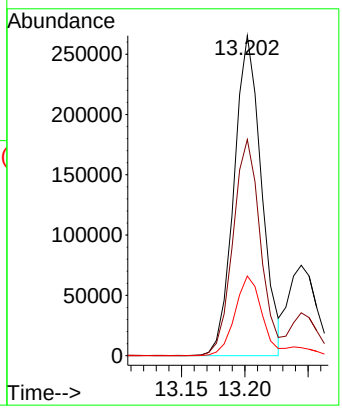


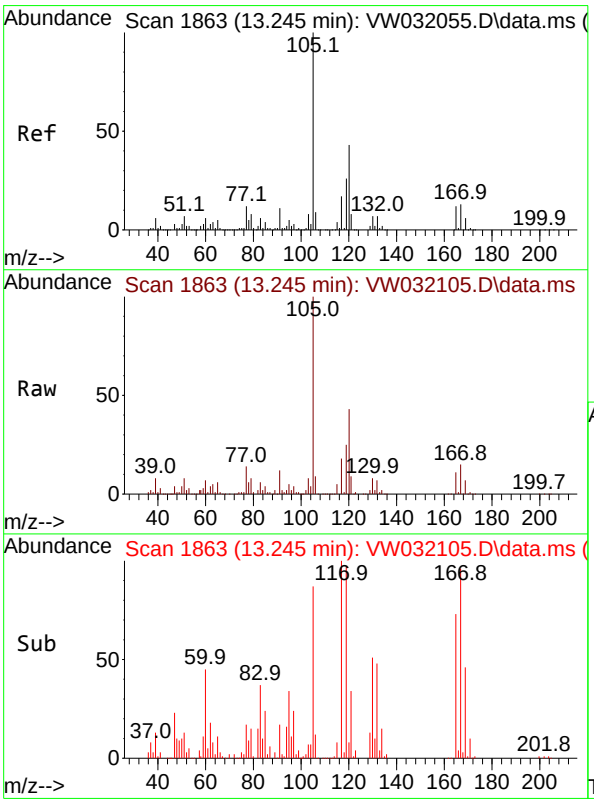
#83
tert-Butylbenzene
Concen: 49.066 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 401156

Ion	Ratio	Lower	Upper
119	100		
91	67.3	35.3	105.9
134	24.7	12.1	36.3

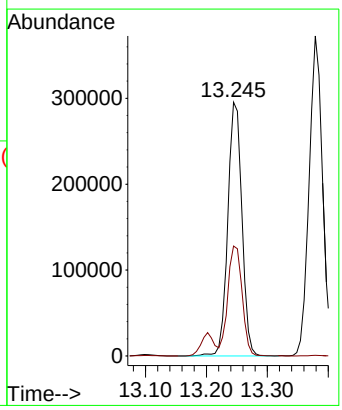


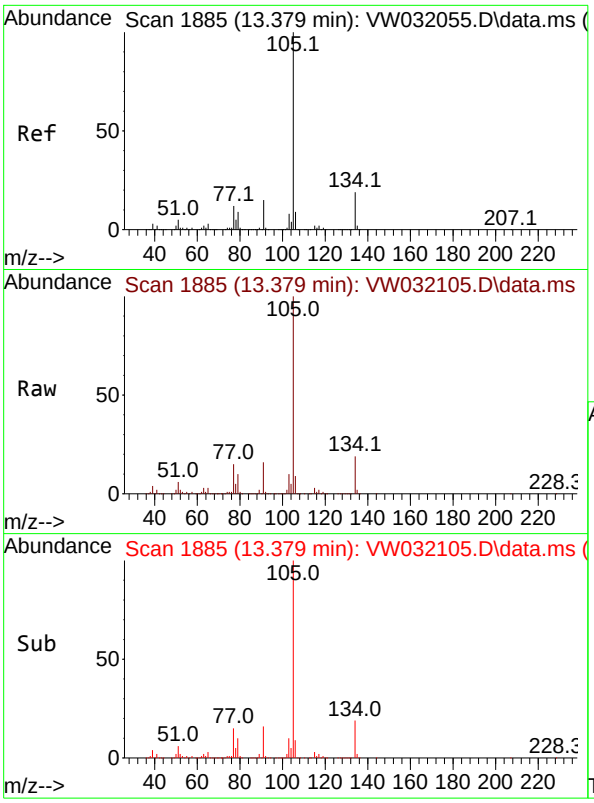


#84
1,2,4-Trimethylbenzene
Concen: 47.371 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:105 Resp: 475052

Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.6	64.8



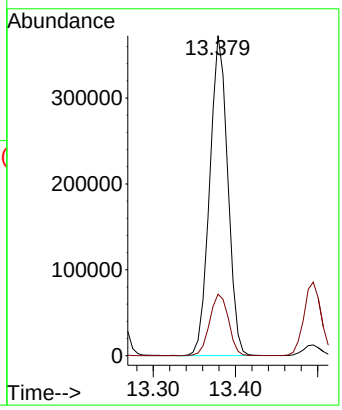


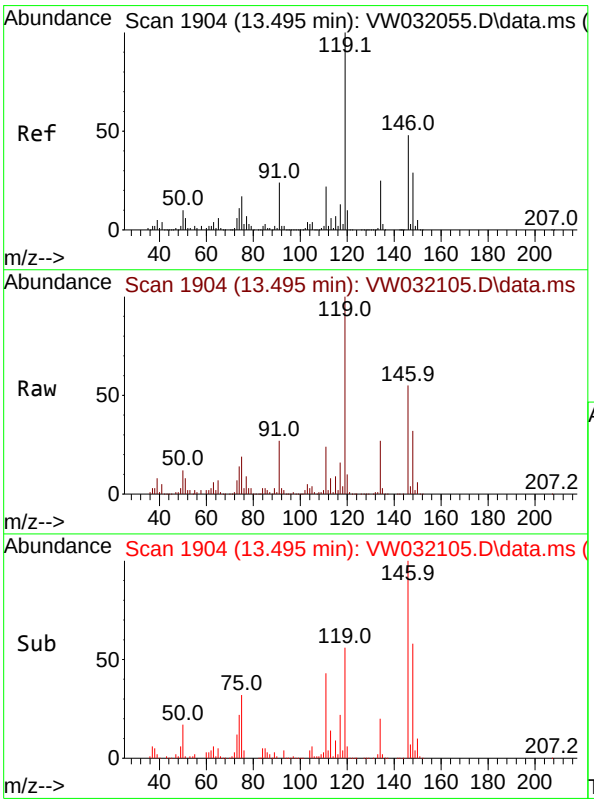
#85
sec-Butylbenzene
Concen: 45.955 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 568054

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.9	29.7

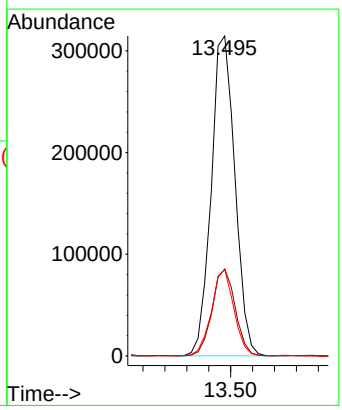


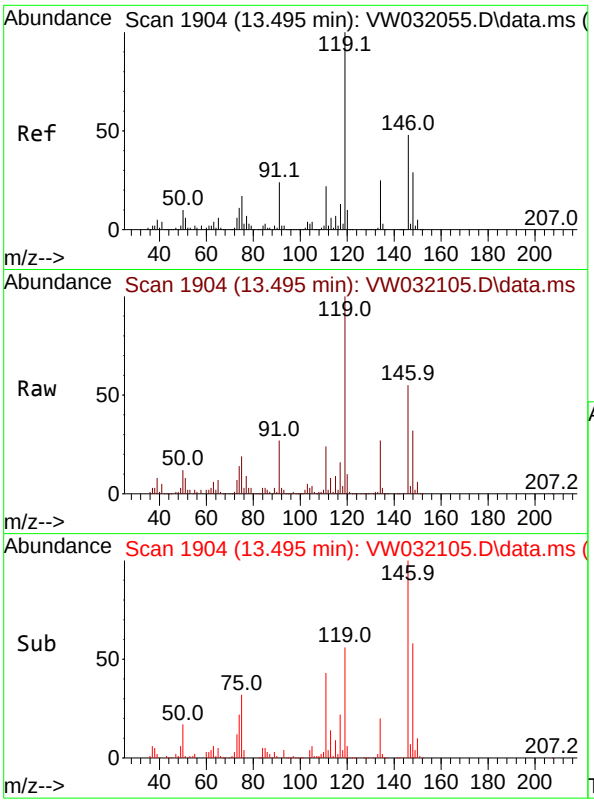


#86
p-Isopropyltoluene
Concen: 45.874 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:119 Resp: 472729

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.4	37.0
91	25.4	12.1	36.3



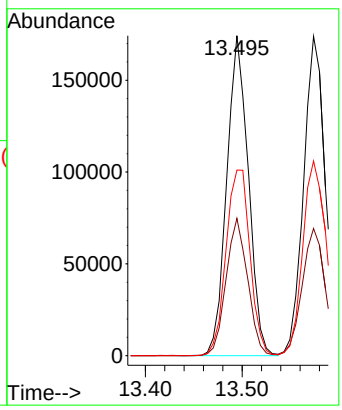


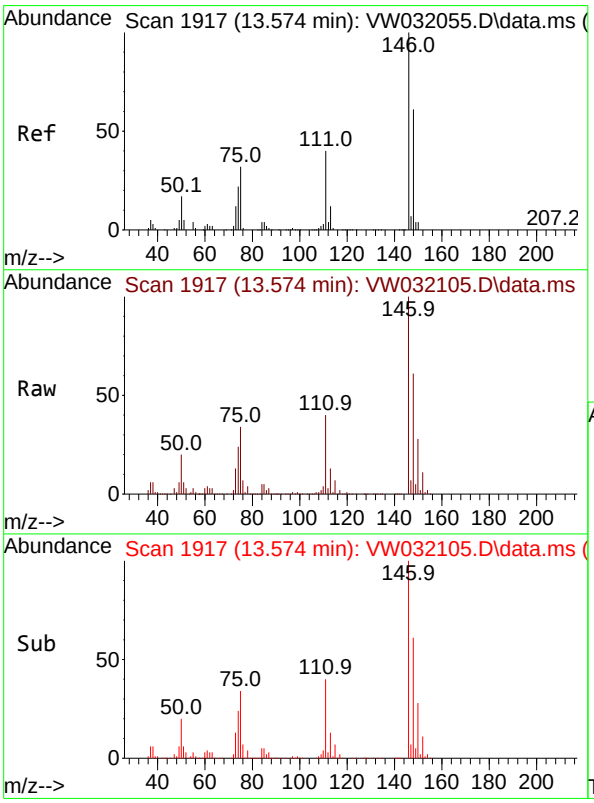
#87
1,3-Dichlorobenzene
Concen: 49.021 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 270340

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.2	63.6
148	64.5	30.3	90.8

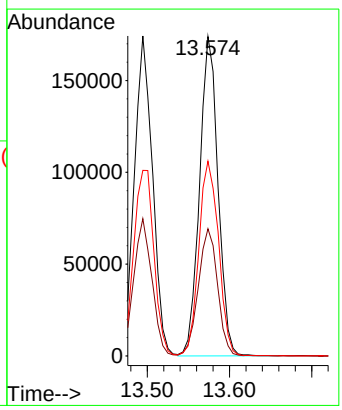


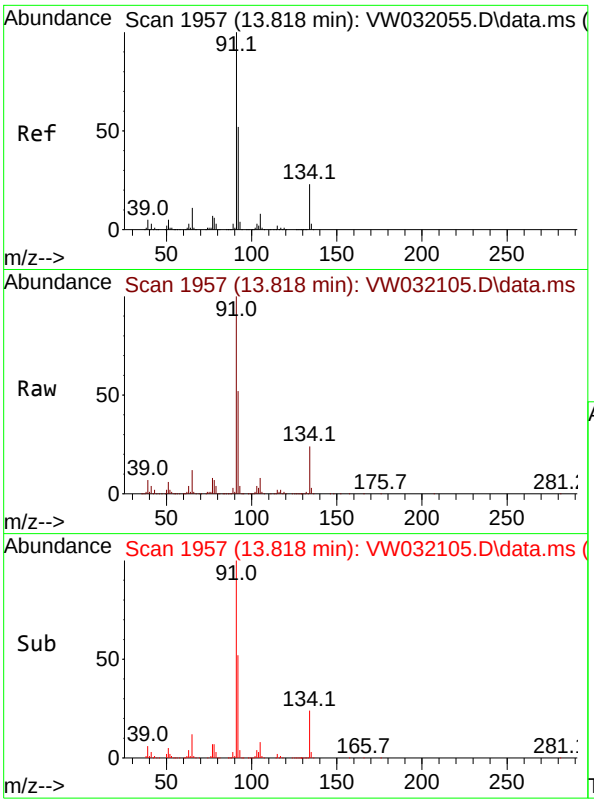


#88
1,4-Dichlorobenzene
Concen: 48.665 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:146 Resp: 271213

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.6	64.6
148	65.1	32.0	96.2



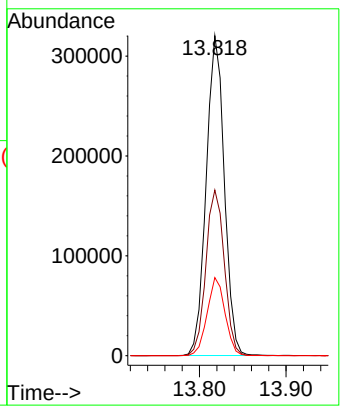


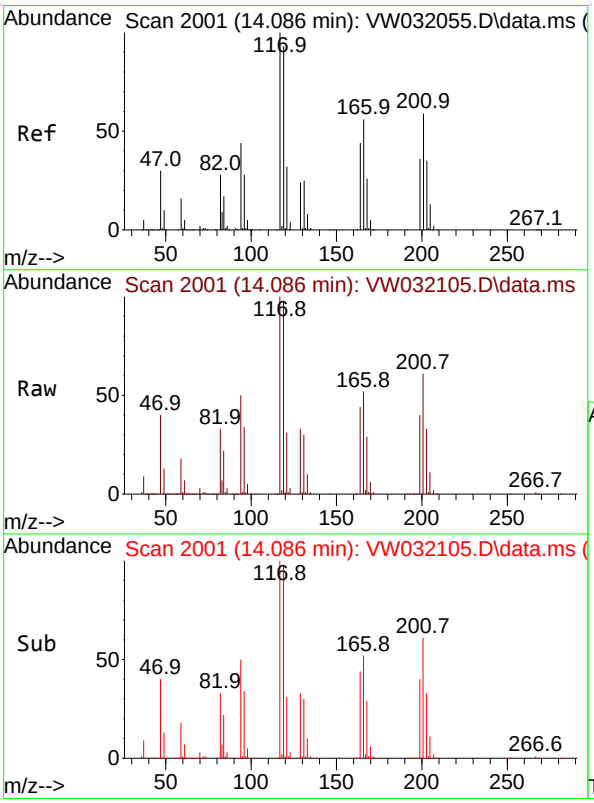
#89
n-Butylbenzene
Concen: 46.594 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 466468

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.7	80.1
134	24.2	12.0	36.1

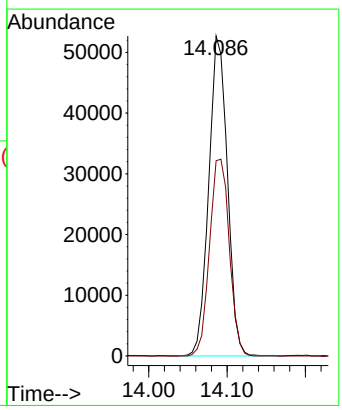


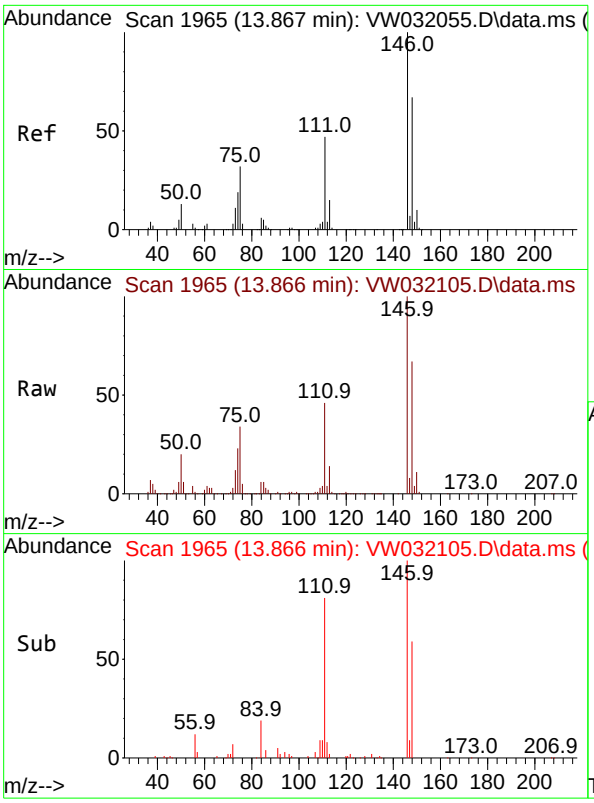


#90
Hexachloroethane
Concen: 46.262 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:117 Resp: 87184

Ion	Ratio	Lower	Upper
117	100		
201	65.1	30.9	92.5



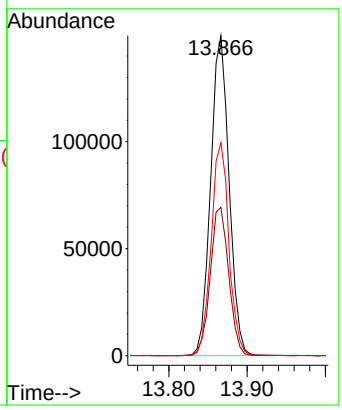


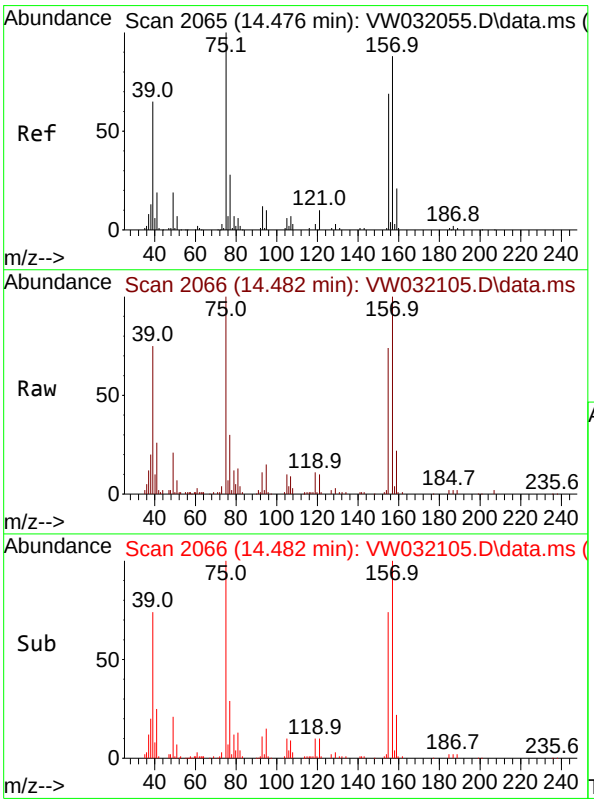
#91
1,2-Dichlorobenzene
Concen: 48.837 ug/l
RT: 13.866 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 243969

Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.1	69.3
148	64.4	32.9	98.6

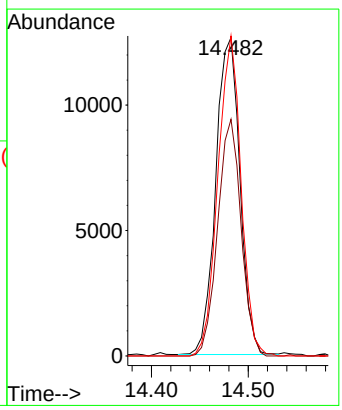


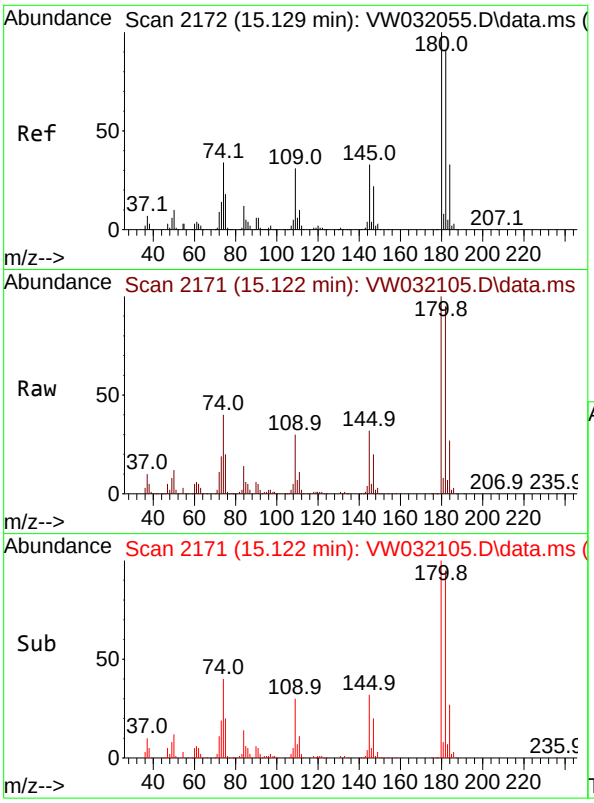


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.641 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion: 75 Resp: 21865

Ion	Ratio	Lower	Upper
75	100		
155	72.5	35.2	105.6
157	96.7	47.5	142.6



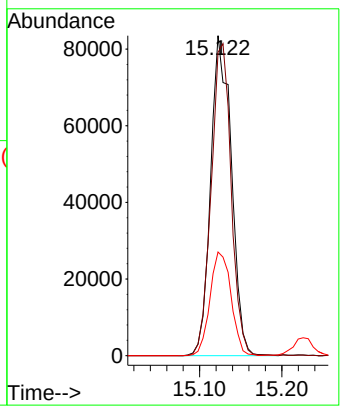


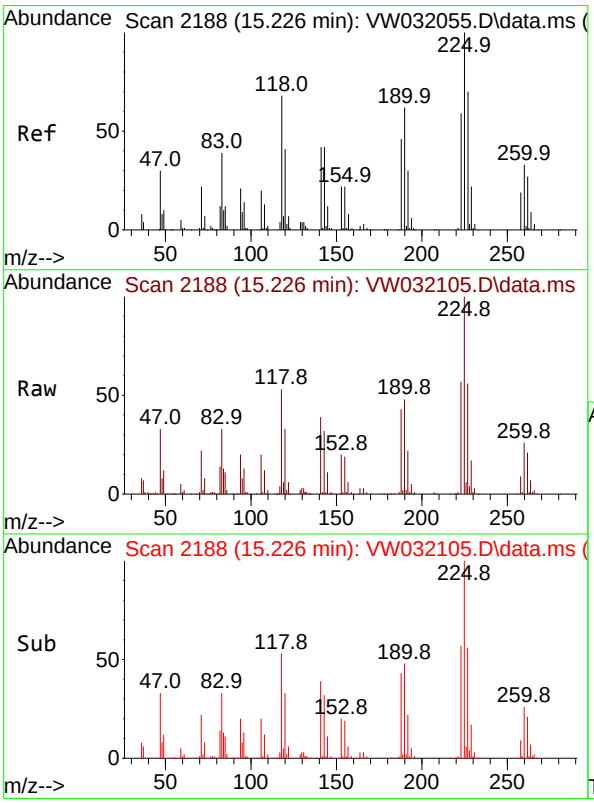
#93
1,2,4-Trichlorobenzene
Concen: 48.861 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 146018

Ion	Ratio	Lower	Upper
180	100		
182	94.2	49.0	147.0
145	33.1	17.3	51.9

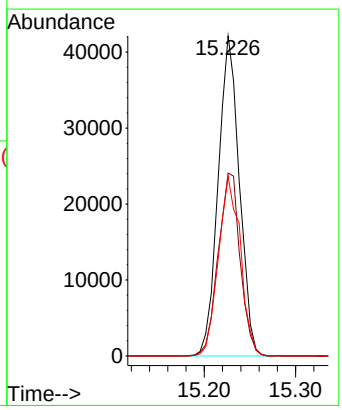


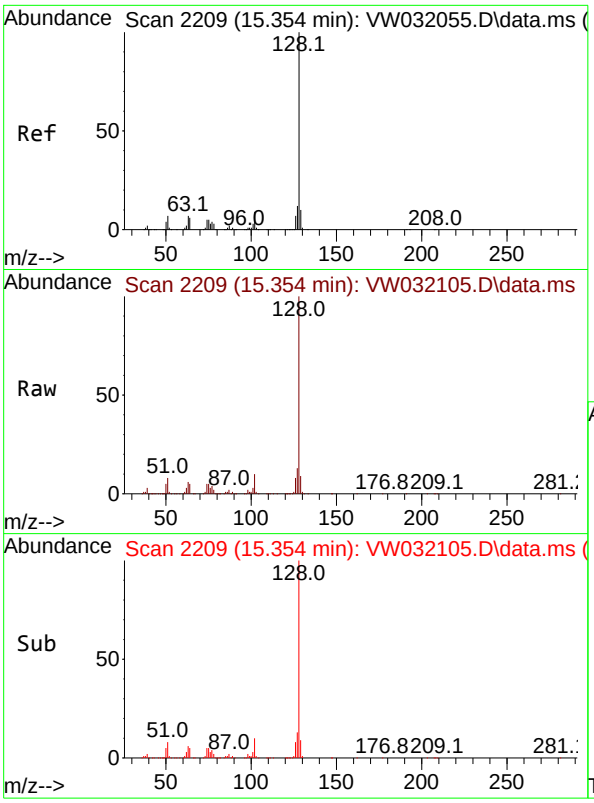


#94
Hexachlorobutadiene
Concen: 50.817 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:225 Resp: 67884

Ion	Ratio	Lower	Upper
225	100		
223	59.2	31.8	95.3
227	58.1	33.5	100.5



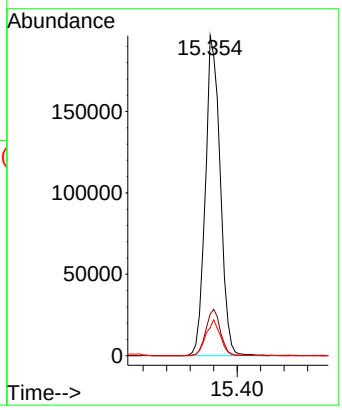


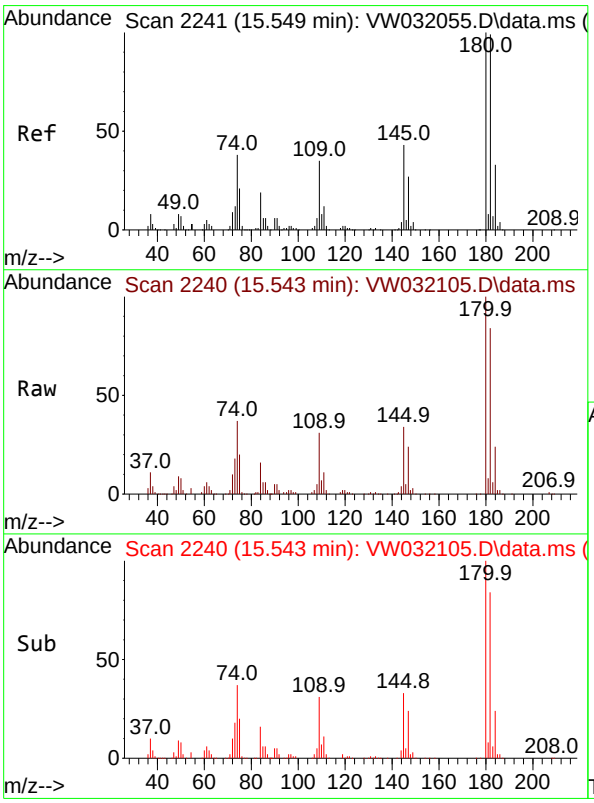
#95
Naphthalene
Concen: 47.200 ug/l
RT: 15.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 345629

Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.5	15.7
129	10.9	8.2	12.4

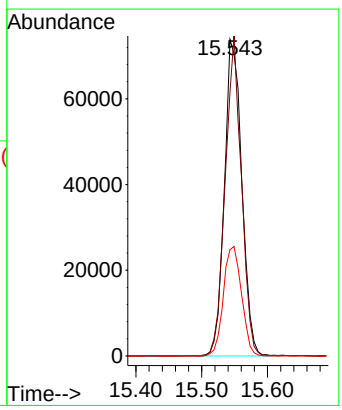




#96
1,2,3-Trichlorobenzene
Concen: 50.054 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032105.D
Acq: 14 Aug 2025 19:32

Tgt Ion:180 Resp: 136101

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.0	138.0
145	36.0	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	561390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	904866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	759914	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	360397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	27563	5.152	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 10.300%#			
35) Dibromofluoromethane	7.634	113	26265	4.851	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 9.700%#			
50) Toluene-d8	10.103	98	104144	4.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	12.402	95	32420	4.766	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 9.540%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	27351	5.969	ug/l	96
3) Chloromethane	2.068	50	39269	5.291	ug/l	98
4) Vinyl Chloride	2.202	62	48736	5.312	ug/l	99
5) Bromomethane	2.592	94	37773	5.513	ug/l	97
6) Chloroethane	2.732	64	32816	5.380	ug/l	98
7) Trichlorofluoromethane	3.050	101	59438	5.328	ug/l	99
8) Diethyl Ether	3.452	74	15231	5.160	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	29291	5.322	ug/l	98
10) Methyl Iodide	3.994	142	26272	4.424	ug/l	98
11) Tert butyl alcohol	4.866	59	9219	25.147	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	27635	5.108	ug/l	87
13) Acrolein	3.647	56	13391	24.941	ug/l	95
14) Allyl chloride	4.372	41	41201	5.176	ug/l	94
15) Acrylonitrile	5.061	53	28255	23.547	ug/l	95
16) Acetone	3.866	43	30803	26.574	ug/l	98
17) Carbon Disulfide	4.098	76	92964	5.270	ug/l	96
18) Methyl Acetate	4.379	43	16806	4.872	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	66308	4.730	ug/l	98
20) Methylene Chloride	4.604	84	48322	5.657	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	30021	4.938	ug/l	97
22) Diisopropyl ether	6.012	45	80938	4.679	ug/l	91
23) Vinyl Acetate	5.958	43	221862	23.196	ug/l	97
24) 1,1-Dichloroethane	5.909	63	52152	4.931	ug/l	99
25) 2-Butanone	6.890	43	37821	23.991	ug/l	97
26) 2,2-Dichloropropane	6.878	77	46964	5.147	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	34877	4.962	ug/l	97
28) Bromochloromethane	7.238	49	20615	4.913	ug/l	96
29) Tetrahydrofuran	7.256	42	23487	24.035	ug/l	96
30) Chloroform	7.415	83	54392	4.987	ug/l	96
31) Cyclohexane	7.701	56	58362	5.856	ug/l #	83
32) 1,1,1-Trichloroethane	7.610	97	48413	5.003	ug/l	99
36) 1,1-Dichloropropene	7.829	75	39978	4.968	ug/l	99
37) Ethyl Acetate	6.982	43	15080	4.461	ug/l #	95
38) Carbon Tetrachloride	7.811	117	44360	5.076	ug/l	99
39) Methylcyclohexane	9.103	83	51931	4.901	ug/l	99
40) Benzene	8.073	78	122482	4.939	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	6006	3.075	ug/l	#	56
42) 1,2-Dichloroethane	8.152	62	31902	4.946	ug/l		98
43) Isopropyl Acetate	8.195	43	31890	4.668	ug/l		100
44) Trichloroethene	8.859	130	32050	5.001	ug/l		93
45) 1,2-Dichloropropane	9.134	63	27418	4.805	ug/l		93
46) Dibromomethane	9.225	93	15033	4.590	ug/l		97
47) Bromodichloromethane	9.420	83	40327	4.785	ug/l		98
48) Methyl methacrylate	9.219	41	13477	4.122	ug/l		90
49) 1,4-Dioxane	9.231	88	3454	89.939	ug/l	#	91
51) 4-Methyl-2-Pentanone	9.993	43	75891	21.535	ug/l		100
52) Toluene	10.164	92	73910	4.692	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	34154	4.475	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	41326	4.579	ug/l		97
55) 1,1,2-Trichloroethane	10.566	97	20795	4.745	ug/l		98
56) Ethyl methacrylate	10.432	69	22376	3.990	ug/l		99
57) 1,3-Dichloropropane	10.713	76	34835	4.687	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	51585	19.500	ug/l		100
59) 2-Hexanone	10.755	43	50604	21.088	ug/l		97
60) Dibromochloromethane	10.908	129	27141	4.693	ug/l		100
61) 1,2-Dibromoethane	11.012	107	18652	4.528	ug/l		97
64) Tetrachloroethene	10.640	164	36210	5.336	ug/l		97
65) Chlorobenzene	11.438	112	80684	4.922	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.511	131	26397	4.745	ug/l		94
67) Ethyl Benzene	11.511	91	134854	4.781	ug/l		99
68) m/p-Xylenes	11.621	106	102783	9.329	ug/l		97
69) o-Xylene	11.950	106	45944	4.453	ug/l		94
70) Styrene	11.963	104	71801	4.255	ug/l		97
71) Bromoform	12.127	173	14954	4.599	ug/l	#	94
73) Isopropylbenzene	12.249	105	123246	4.845	ug/l		99
74) N-amyl acetate	12.066	43	22829	4.232	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.499	83	21057	4.848	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	28374	8.152	ug/l	#	100
77) Bromobenzene	12.530	156	29681	4.891	ug/l		100
78) n-propylbenzene	12.590	91	146043	4.822	ug/l		99
79) 2-Chlorotoluene	12.670	91	84671	4.880	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	96308	4.685	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	6514	4.533	ug/l		89
82) 4-Chlorotoluene	12.773	91	87454	4.859	ug/l		99
83) tert-Butylbenzene	12.993	119	87496	4.712	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	93551	4.571	ug/l		100
85) sec-Butylbenzene	13.170	105	131079	4.806	ug/l		99
86) p-Isopropyltoluene	13.285	119	103731	4.582	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	57668	4.819	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	60781	5.120	ug/l		97
89) n-Butylbenzene	13.609	91	94594	4.549	ug/l		98
90) Hexachloroethane	13.871	117	22980	4.958	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	50829	4.843	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3369	4.982	ug/l		93
93) 1,2,4-Trichlorobenzene	14.913	180	28399	4.576	ug/l		98
94) Hexachlorobutadiene	15.017	225	19196	5.263	ug/l		96
95) Naphthalene	15.133	128	43395	4.100	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	24703	4.619	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

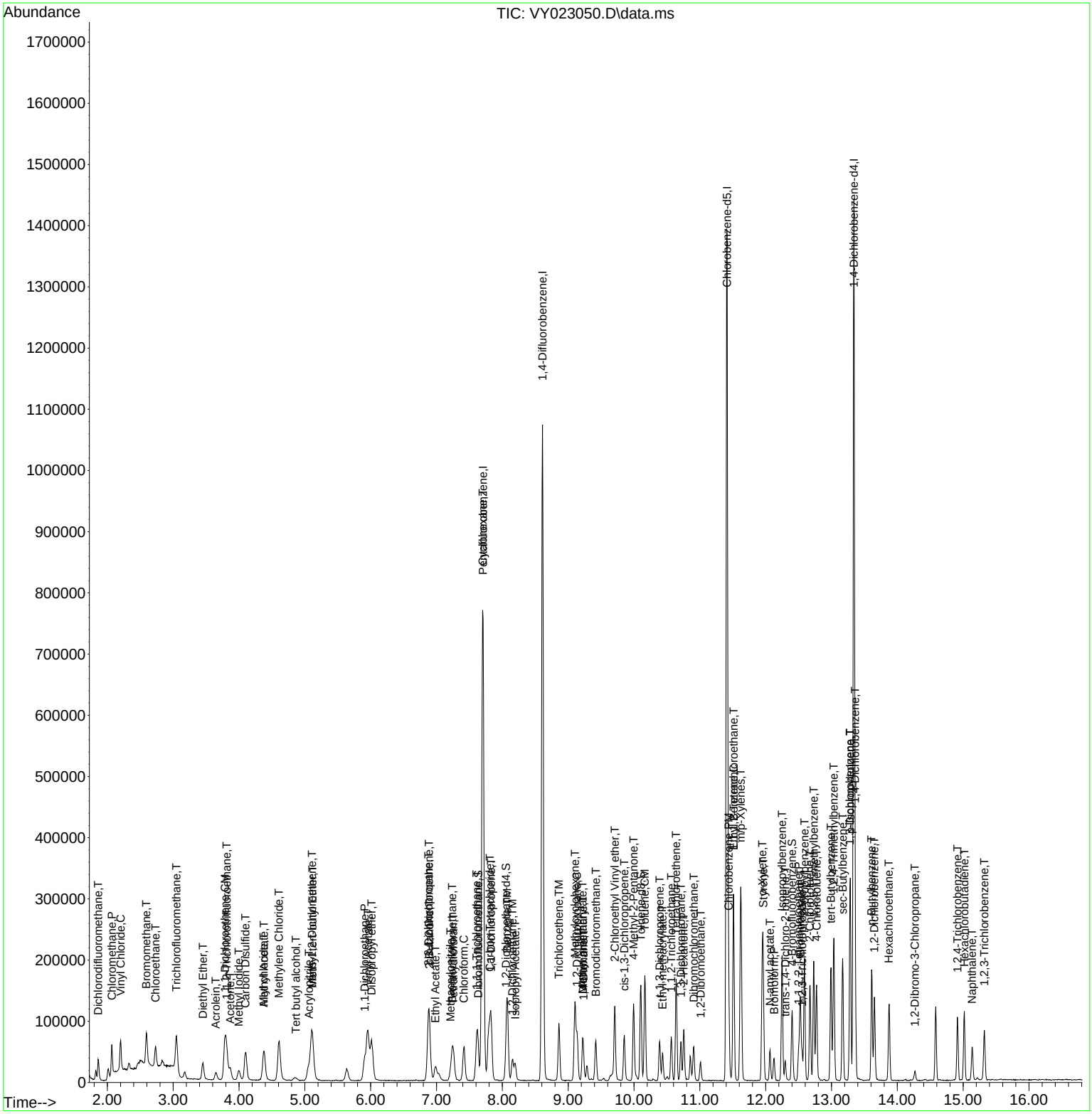
(#) = qualifier out of range (m) = manual integration (+) = signals summed

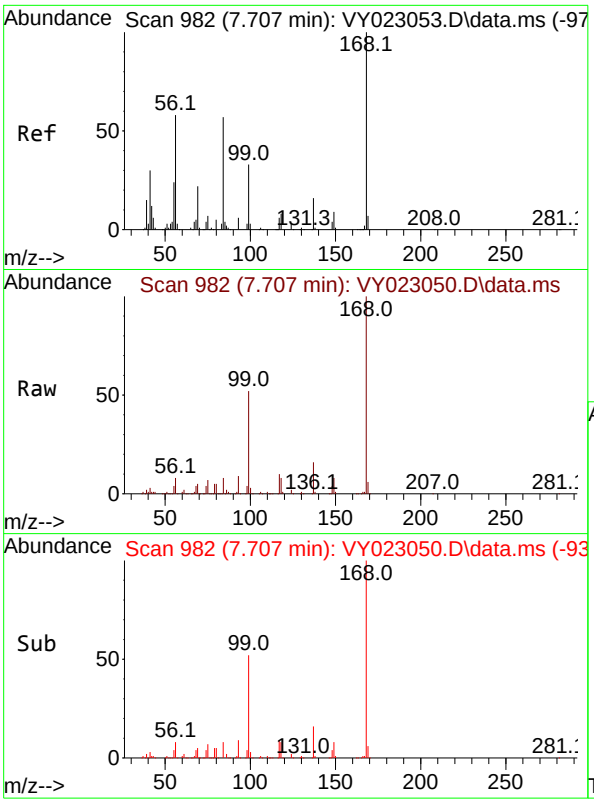
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



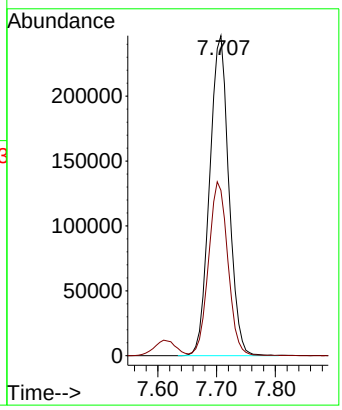


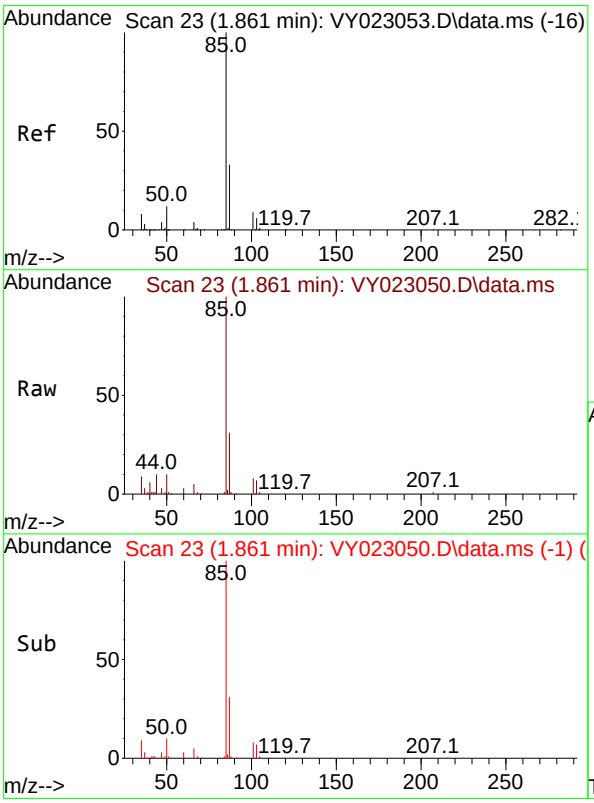
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 561390

Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2

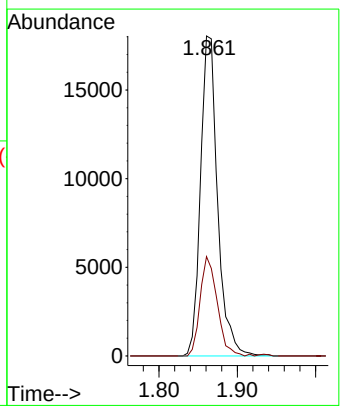


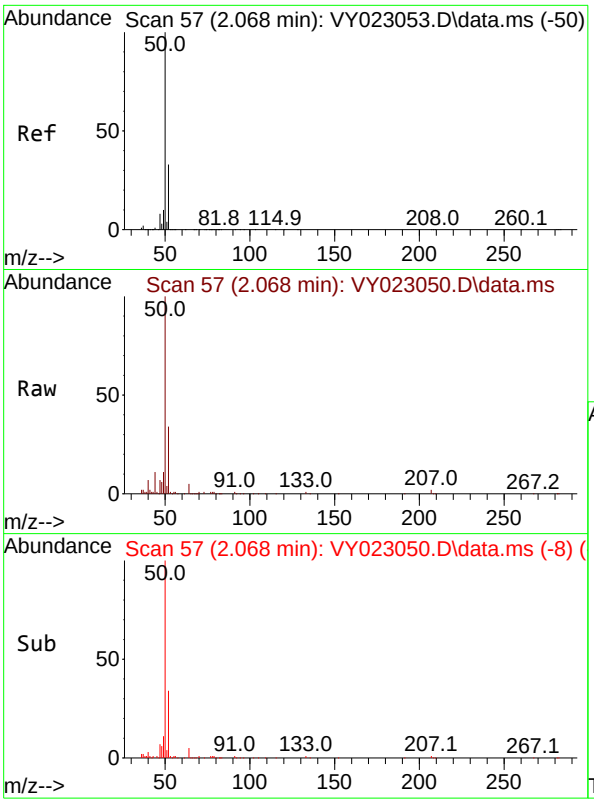


#2
Dichlorodifluoromethane
Concen: 5.969 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 85 Resp: 27351

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.6	49.8



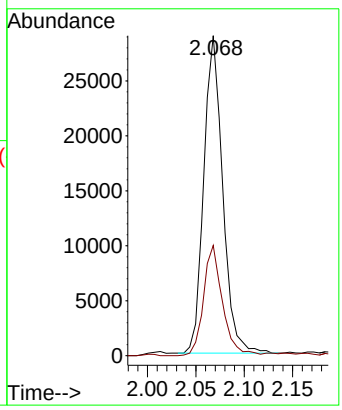


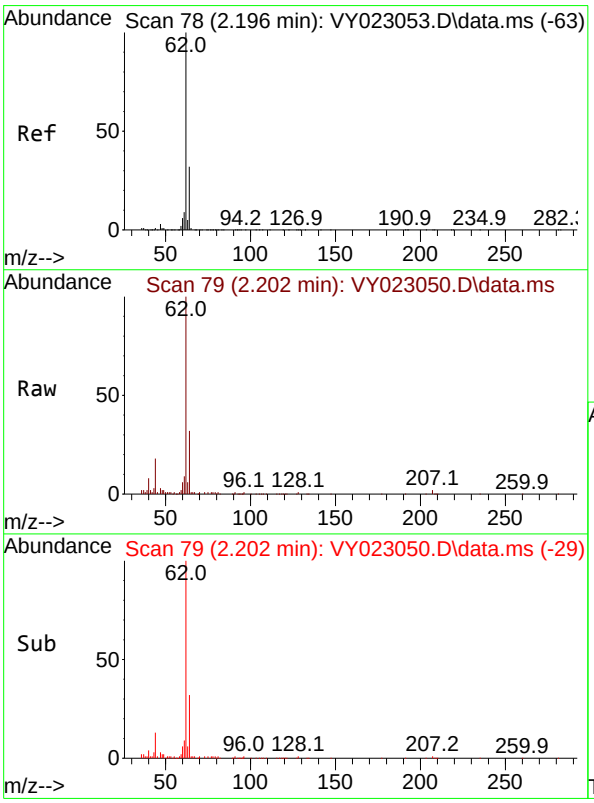
#3
Chloromethane
Concen: 5.291 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 39269

Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.7	40.1

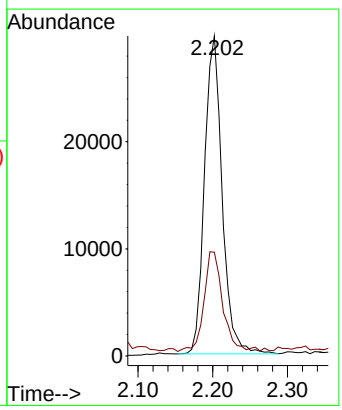


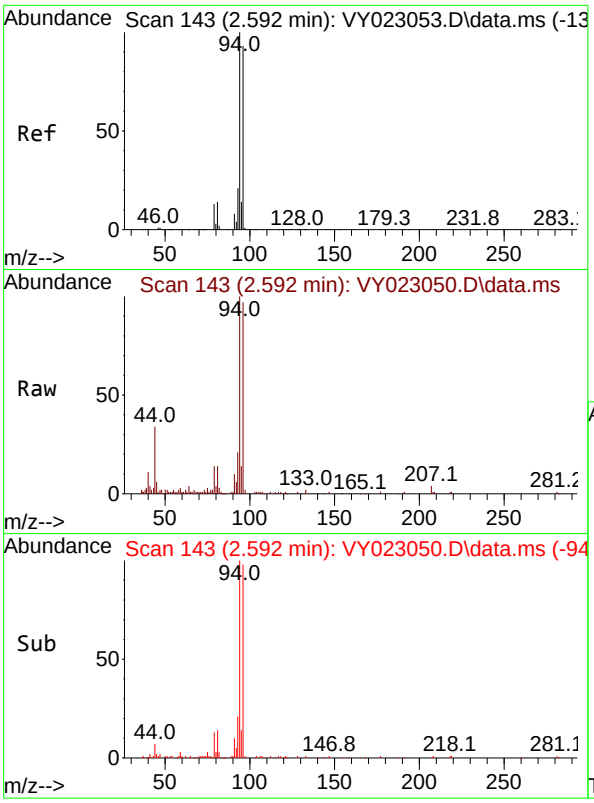


#4
Vinyl Chloride
Concen: 5.312 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 48736

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.4	38.0



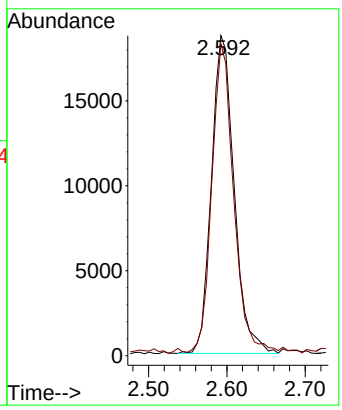


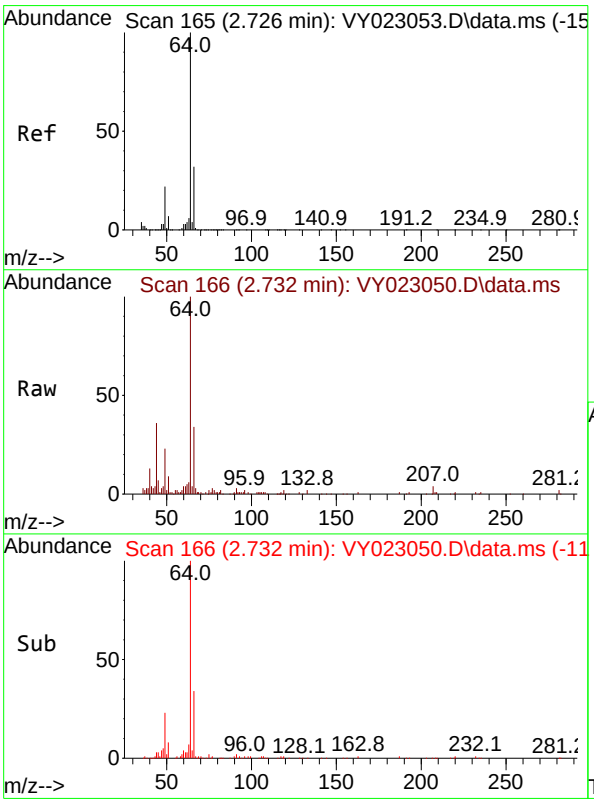
#5
Bromomethane
Concen: 5.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 37773

Ion	Ratio	Lower	Upper
94	100		
96	96.5	74.6	112.0

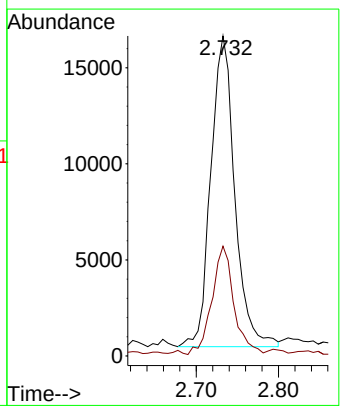


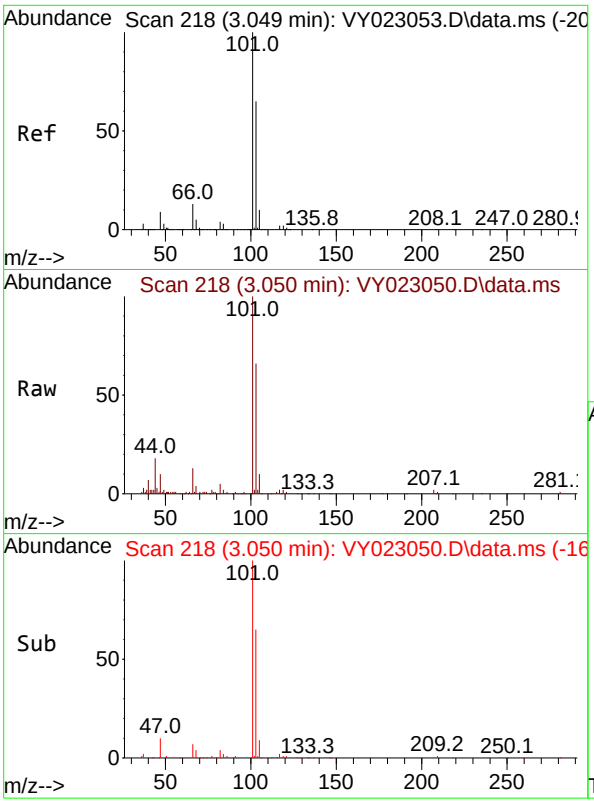


#6
Chloroethane
Concen: 5.380 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 64 Resp: 32816

Ion	Ratio	Lower	Upper
64	100		
66	33.5	25.8	38.6



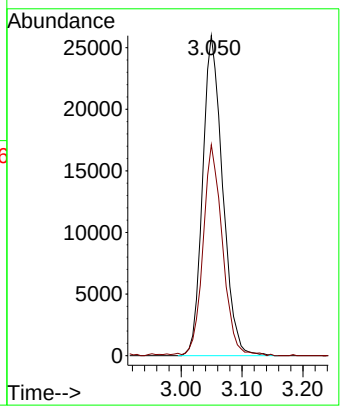


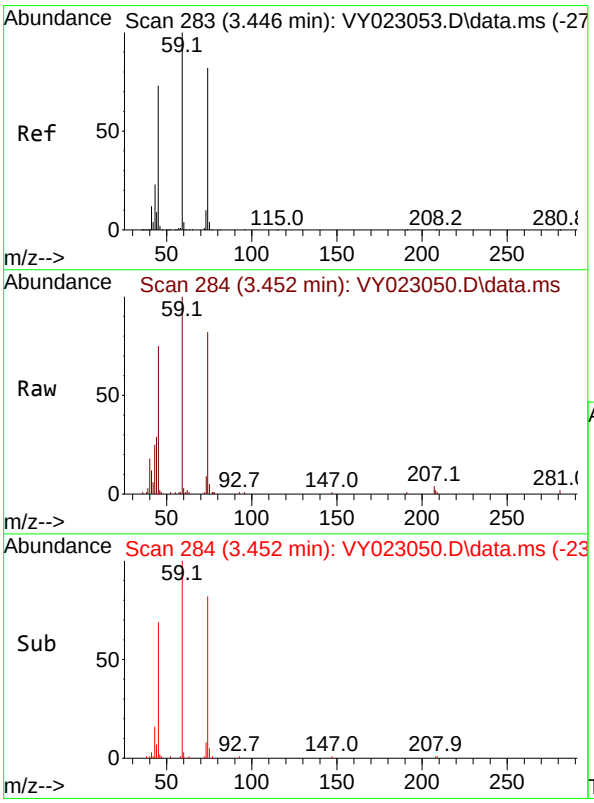
#7
Trichlorofluoromethane
Concen: 5.328 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 59438

Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.9	77.9

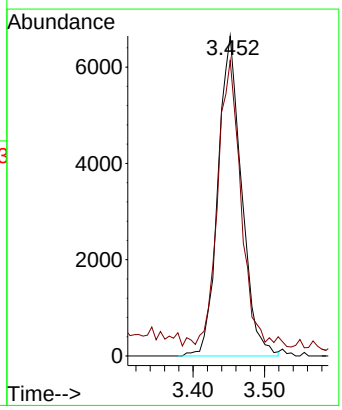


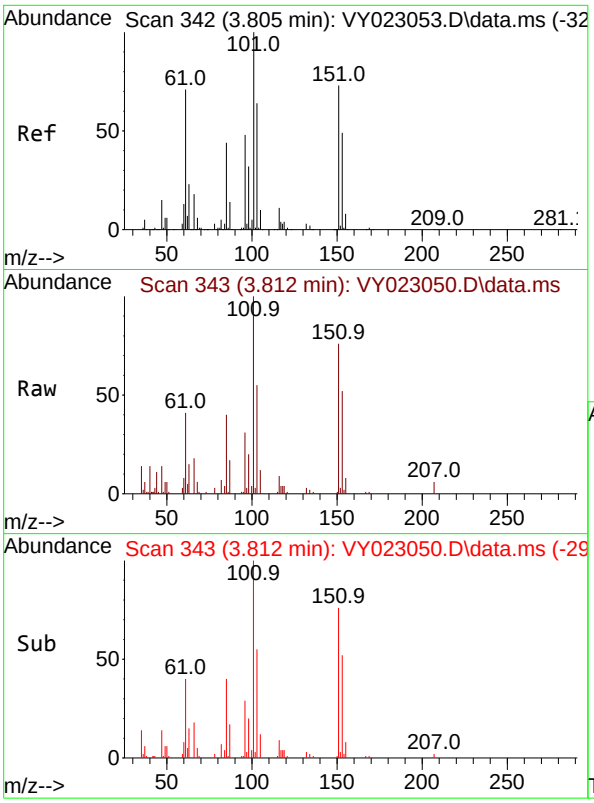


#8
Diethyl Ether
Concen: 5.160 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 74 Resp: 15231

Ion	Ratio	Lower	Upper
74	100		
45	88.2	44.4	133.2



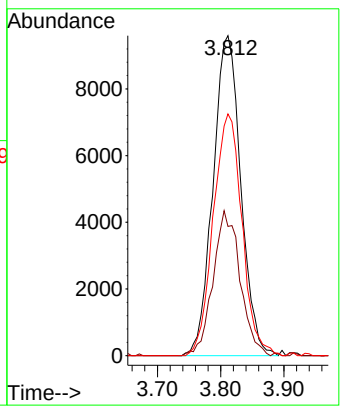


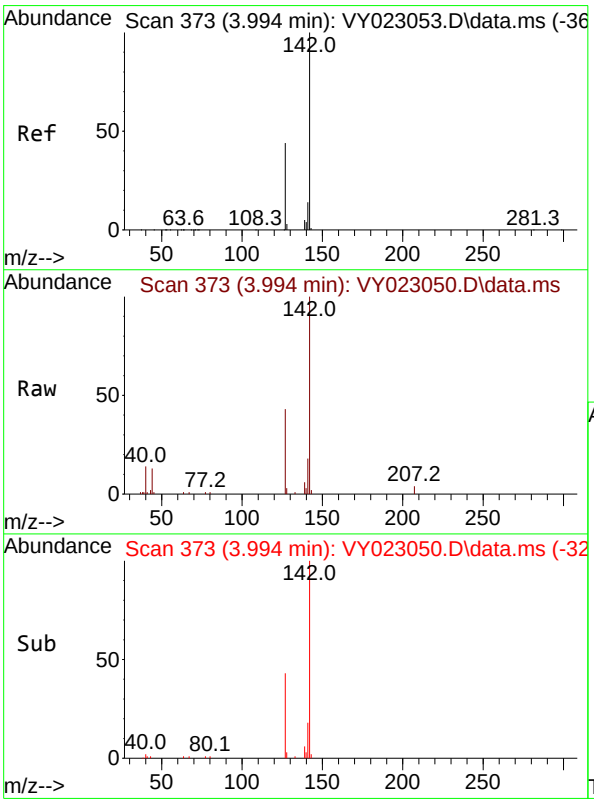
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.322 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 29291

Ion	Ratio	Lower	Upper
101	100		
85	44.1	36.3	54.5
151	78.2	61.5	92.3

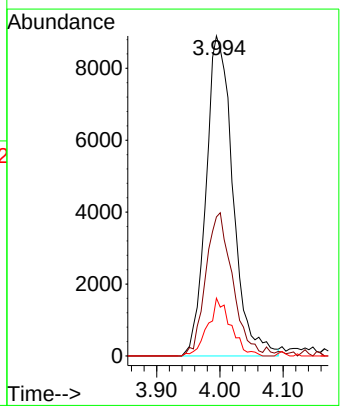


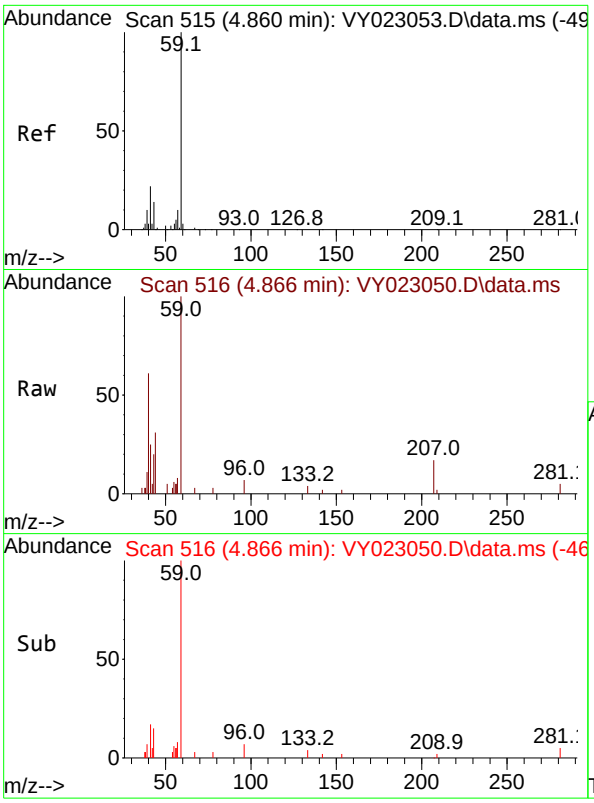


#10
Methyl Iodide
Concen: 4.424 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:142 Resp: 26272

Ion	Ratio	Lower	Upper
142	100		
127	44.6	34.9	52.3
141	15.6	11.3	16.9



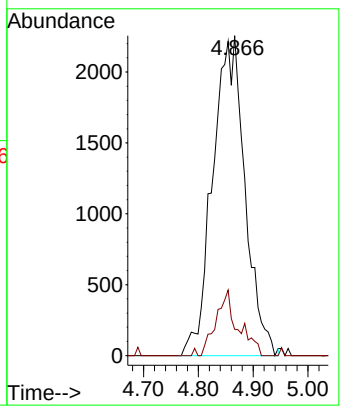


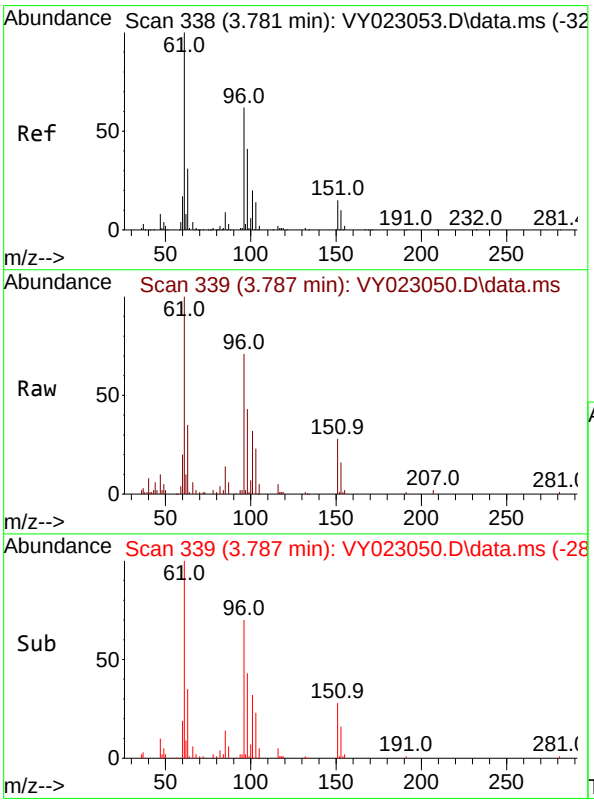
#11
Tert butyl alcohol
Concen: 25.147 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 9219

Ion	Ratio	Lower	Upper
59	100		
57	13.9	8.6	13.0#

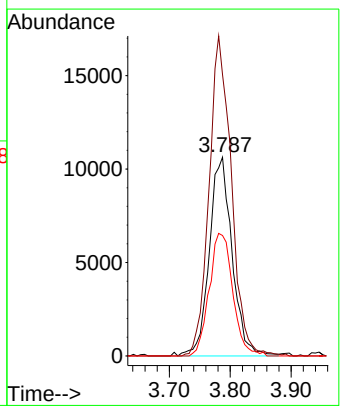


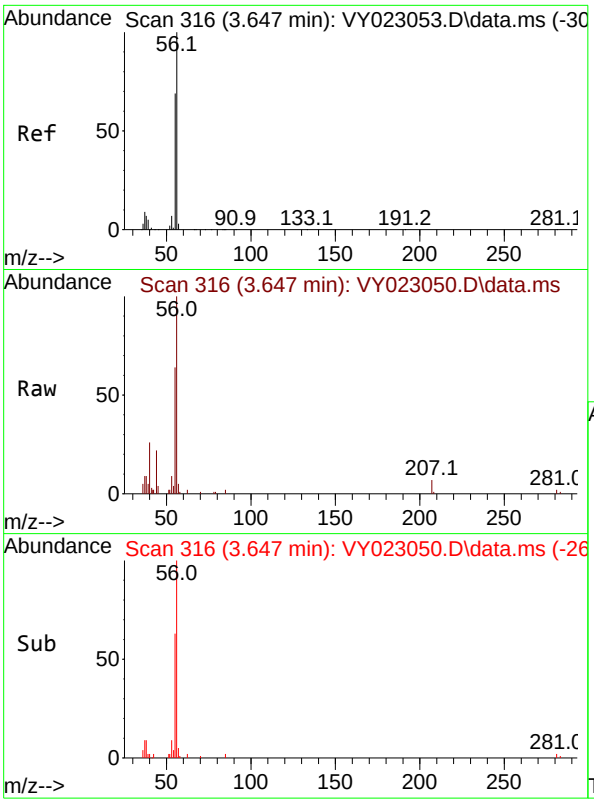


#12
1,1-Dichloroethene
Concen: 5.108 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 27635

Ion	Ratio	Lower	Upper
96	100		
61	141.6	129.4	194.2
98	60.6	52.8	79.2



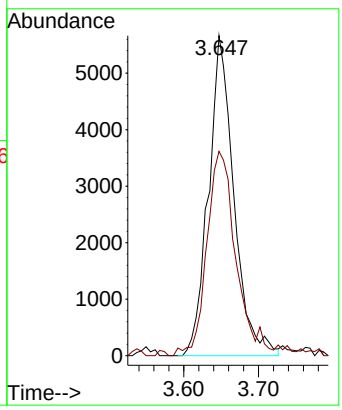


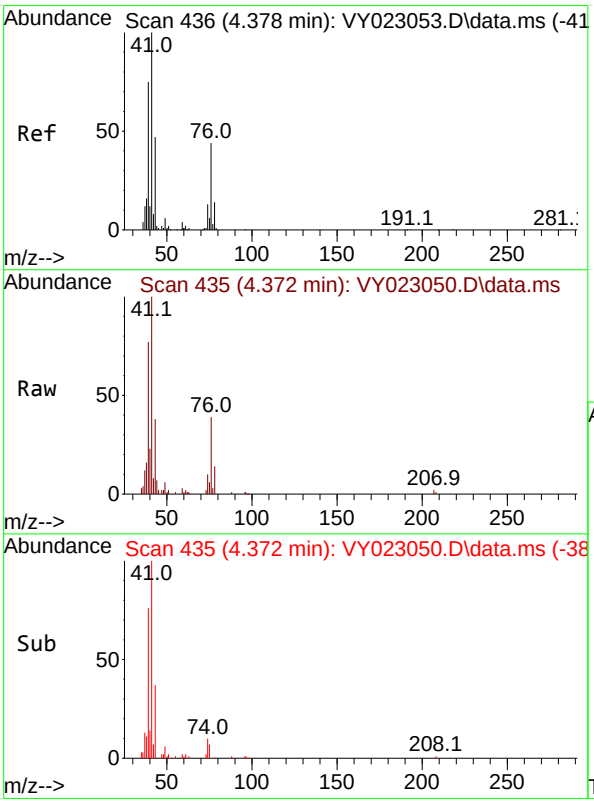
#13
Acrolein
Concen: 24.941 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 13391

Ion	Ratio	Lower	Upper
56	100		
55	72.8	55.2	82.8

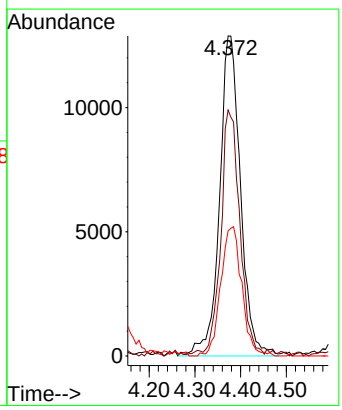


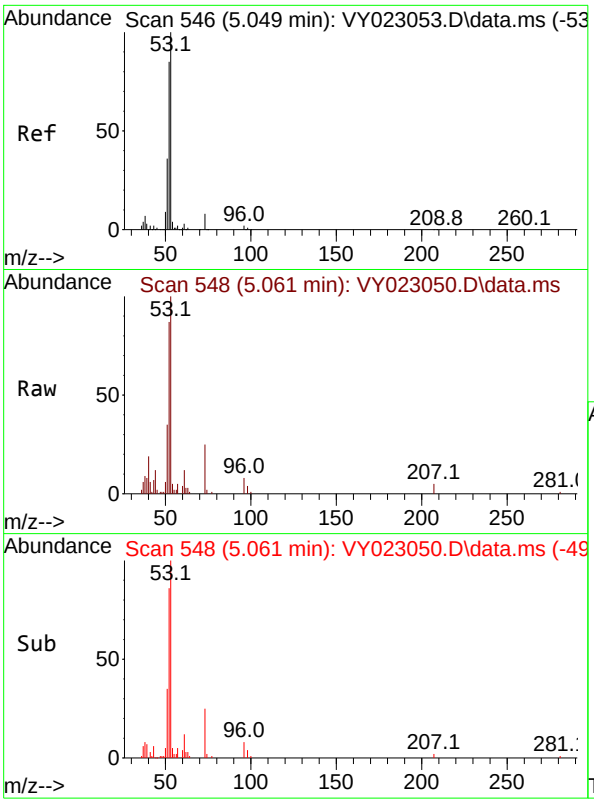


#14
Allyl chloride
Concen: 5.176 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 41201

Ion	Ratio	Lower	Upper
41	100		
39	67.7	59.8	89.6
76	40.4	33.7	50.5



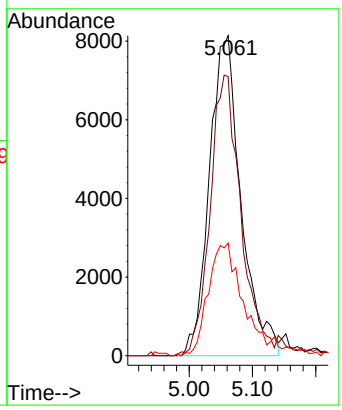


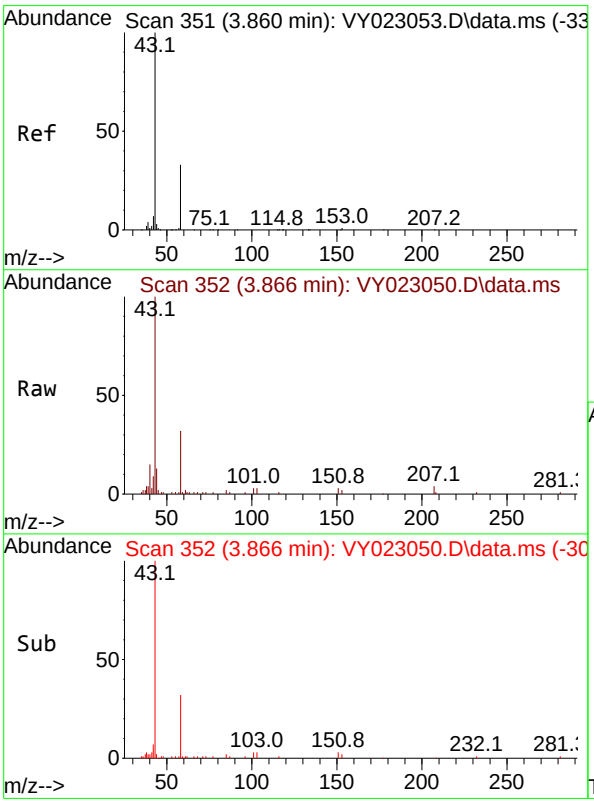
#15
Acrylonitrile
Concen: 23.547 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 28255

Ion	Ratio	Lower	Upper
53	100		
52	84.9	65.3	97.9
51	40.9	29.5	44.3

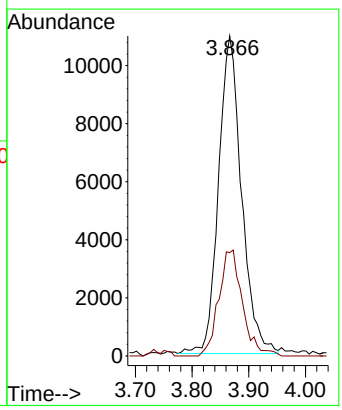


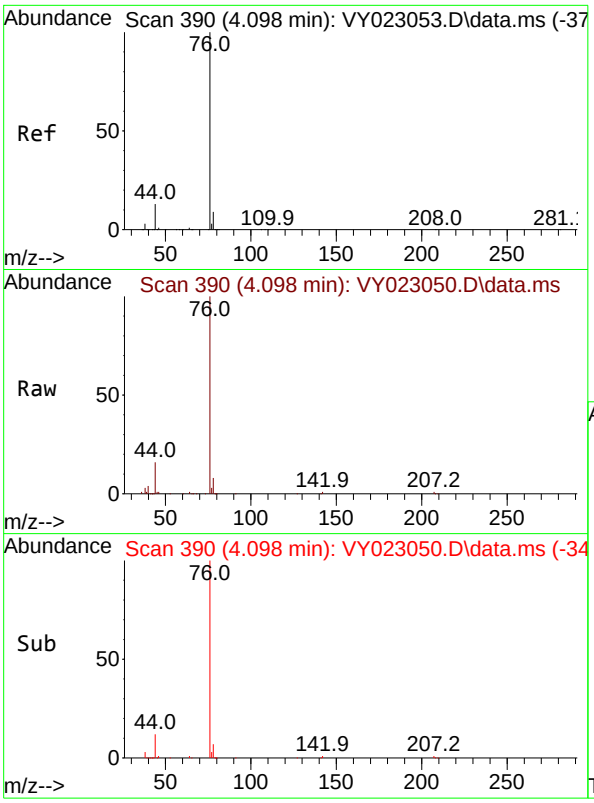


#16
Acetone
Concen: 26.574 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 30803

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7



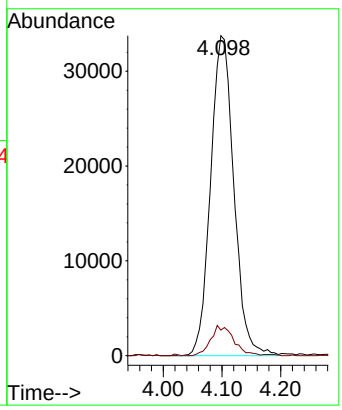


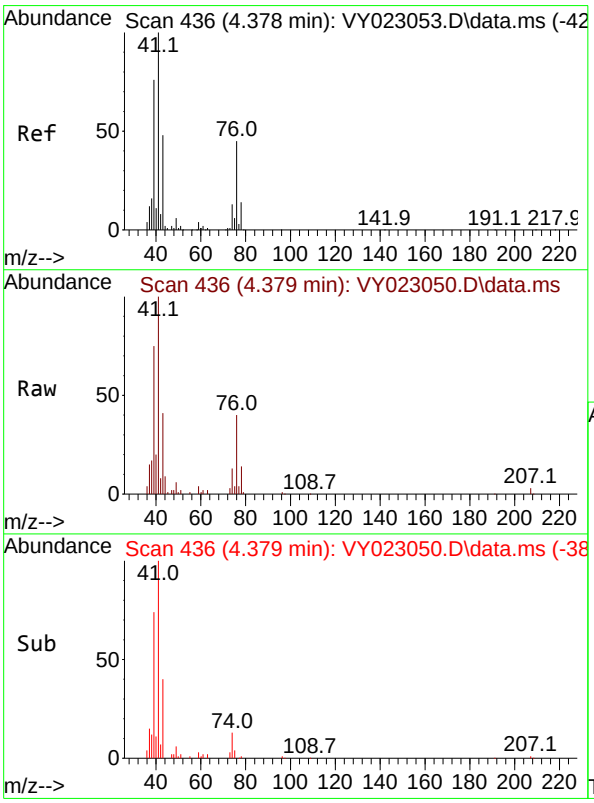
#17
Carbon Disulfide
Concen: 5.270 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 92964

Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.4	11.2

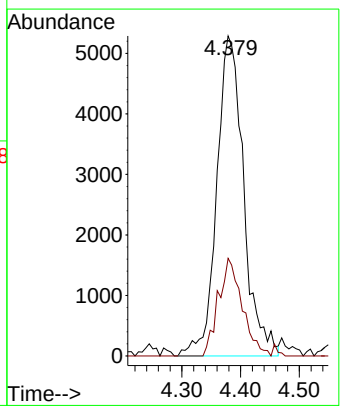


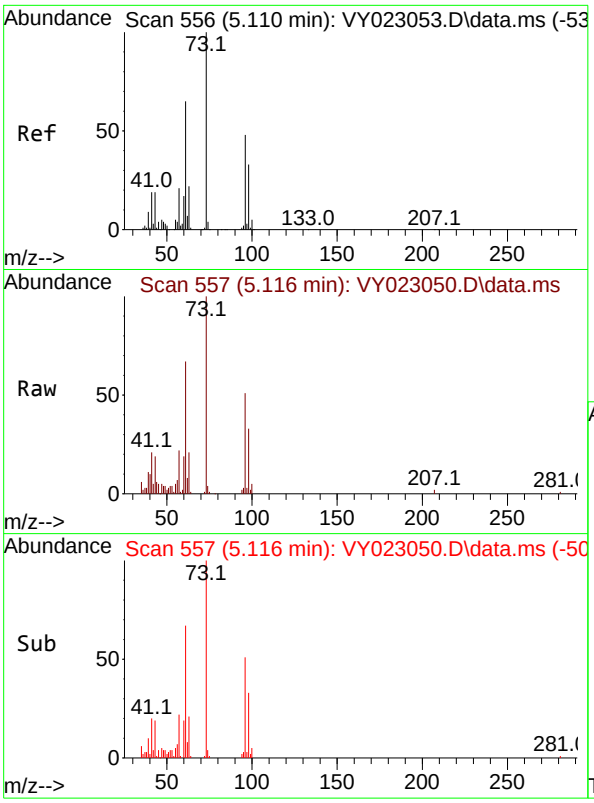


#18
Methyl Acetate
Concen: 4.872 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 16806

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8



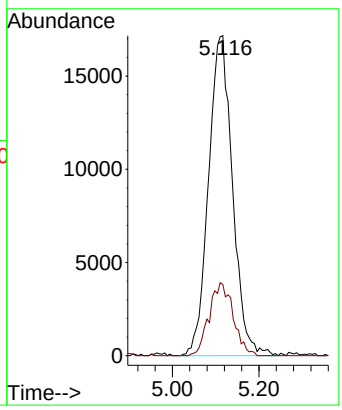


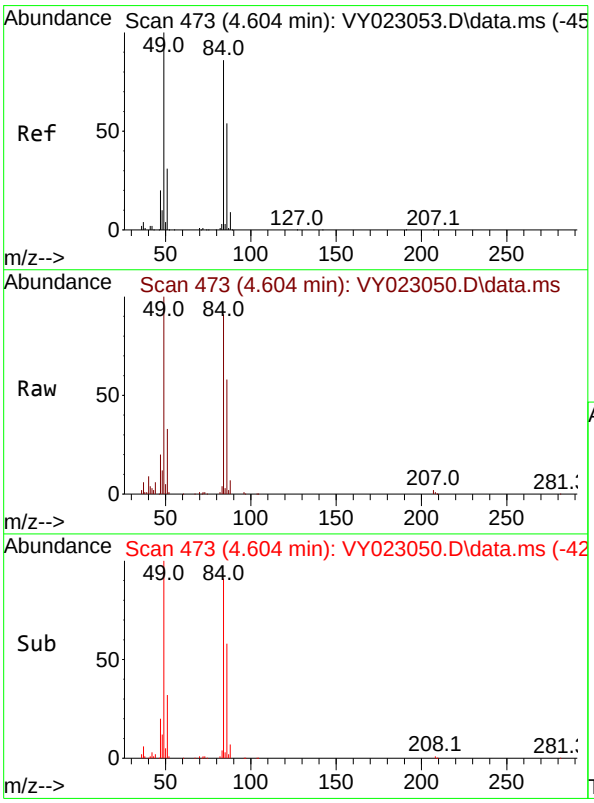
#19
Methyl tert-butyl Ether
Concen: 4.730 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 66308

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.1	25.7

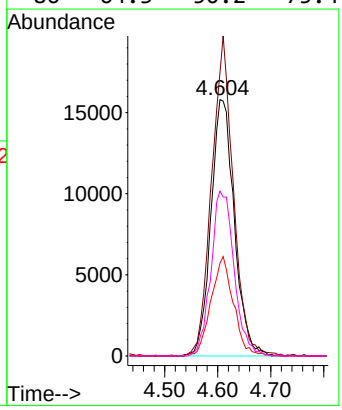


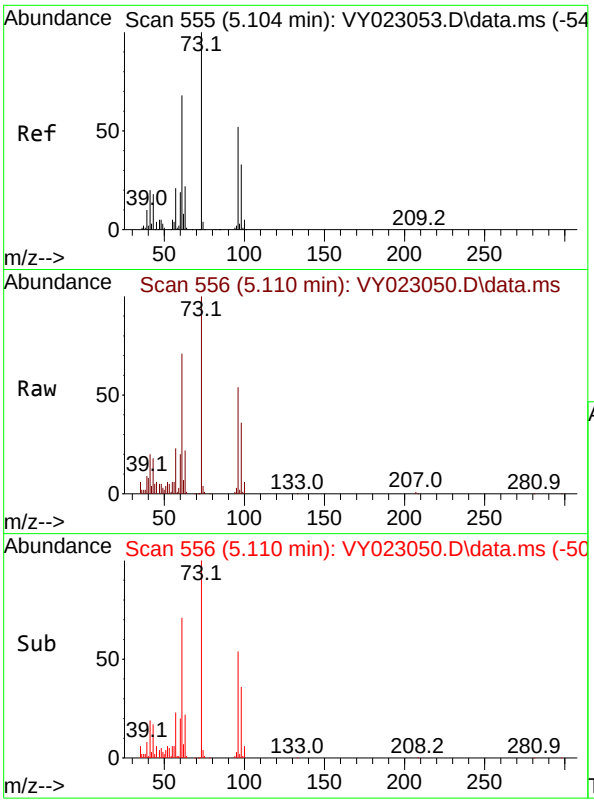


#20
Methylene Chloride
Concen: 5.657 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 84 Resp: 48322

Ion	Ratio	Lower	Upper
84	100		
49	110.5	93.0	139.6
51	36.2	29.0	43.4
86	64.3	50.2	75.4



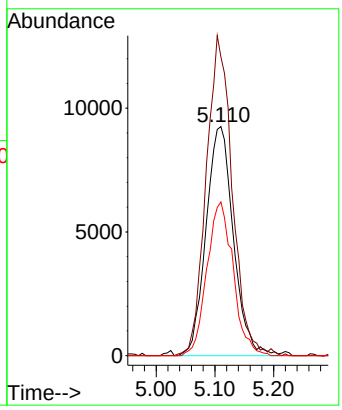


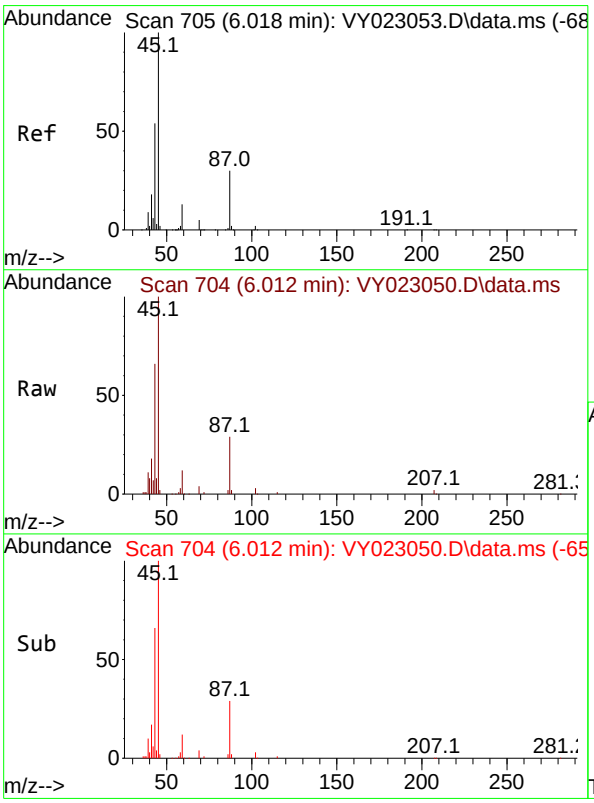
#21
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 30021

Ion	Ratio	Lower	Upper
96	100		
61	129.7	104.8	157.2
98	67.2	50.1	75.1

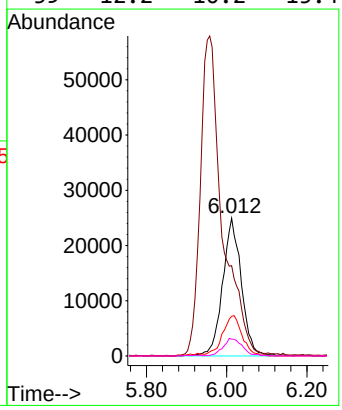


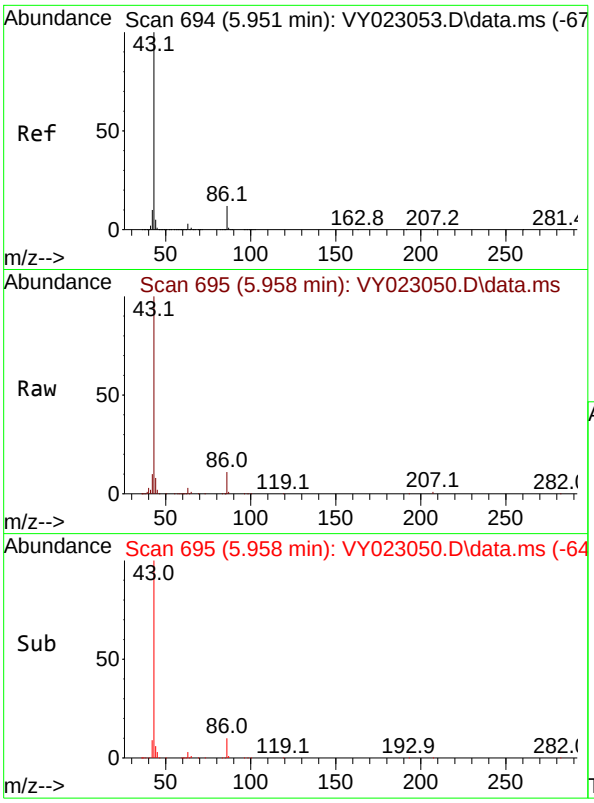


#22
Diisopropyl ether
Concen: 4.679 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 45 Resp: 80938

Ion	Ratio	Lower	Upper
45	100		
43	64.9	43.4	65.0
87	28.9	24.4	36.6
59	12.2	10.2	15.4



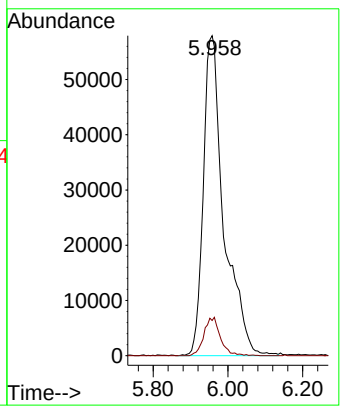


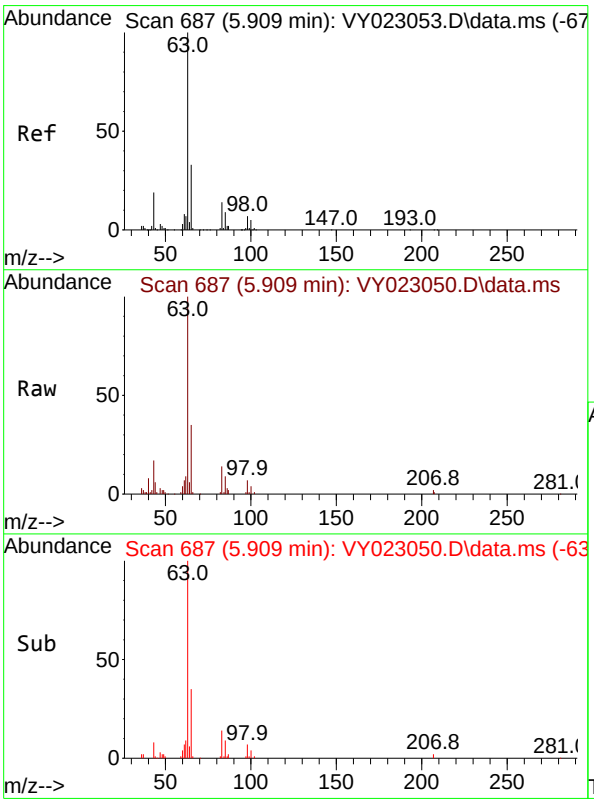
#23
Vinyl Acetate
Concen: 23.196 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 221862

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.6	14.4

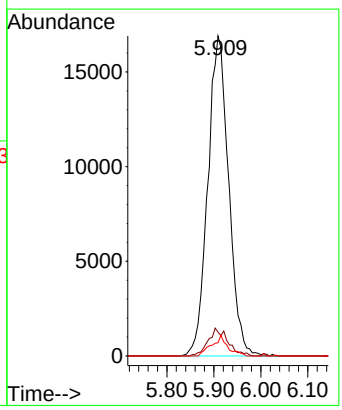


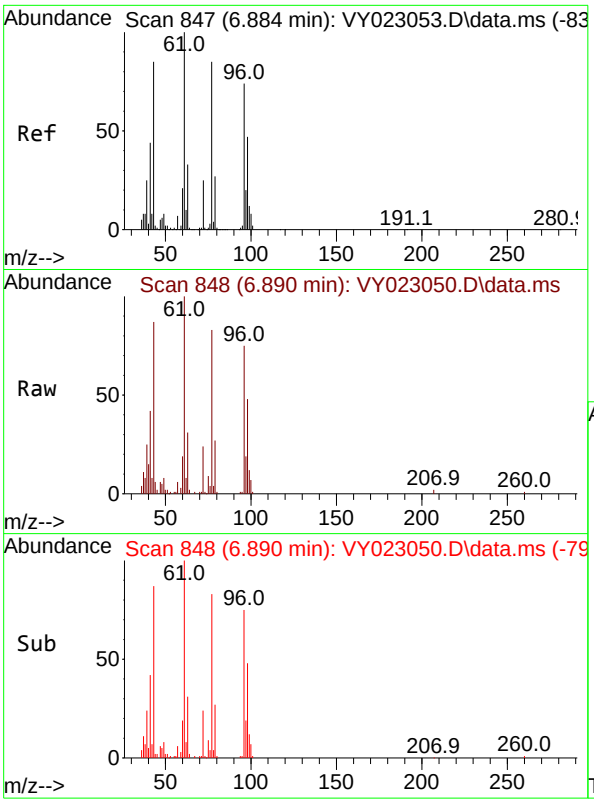


#24
1,1-Dichloroethane
Concen: 4.931 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 52152

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.1	2.4	7.1



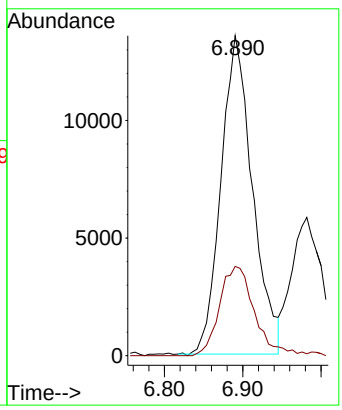


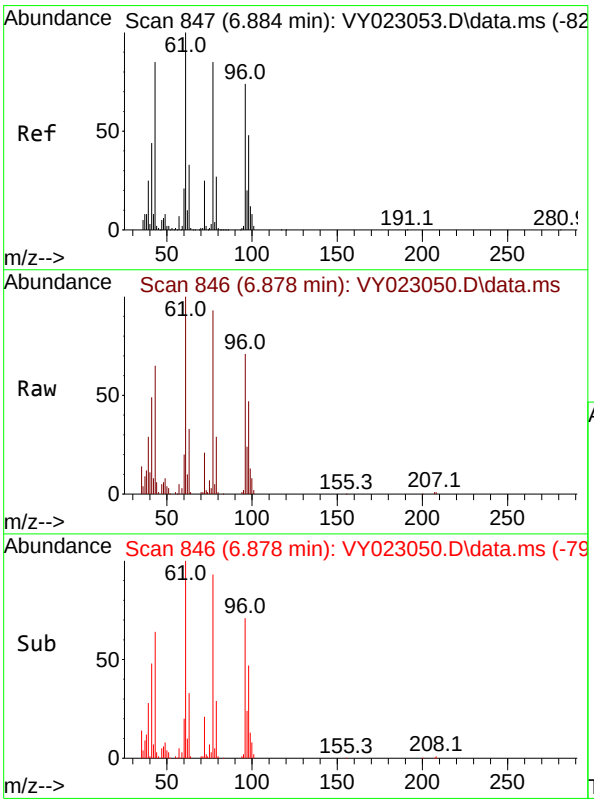
#25
2-Butanone
Concen: 23.991 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 37821

Ion	Ratio	Lower	Upper
43	100		
72	28.0	23.5	35.3

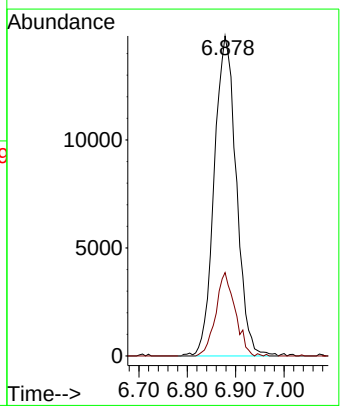


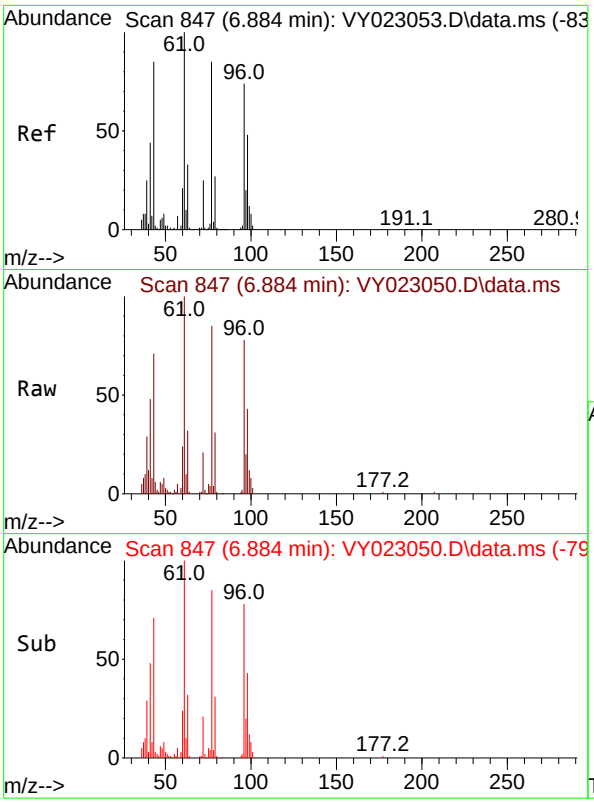


#26
2,2-Dichloropropane
Concen: 5.147 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 77 Resp: 46964

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.6	34.8



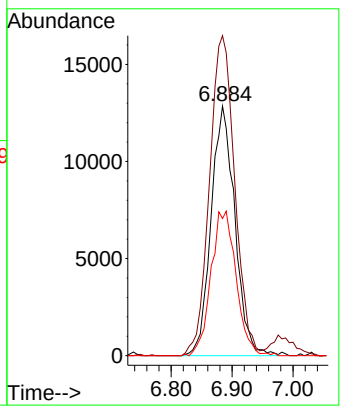


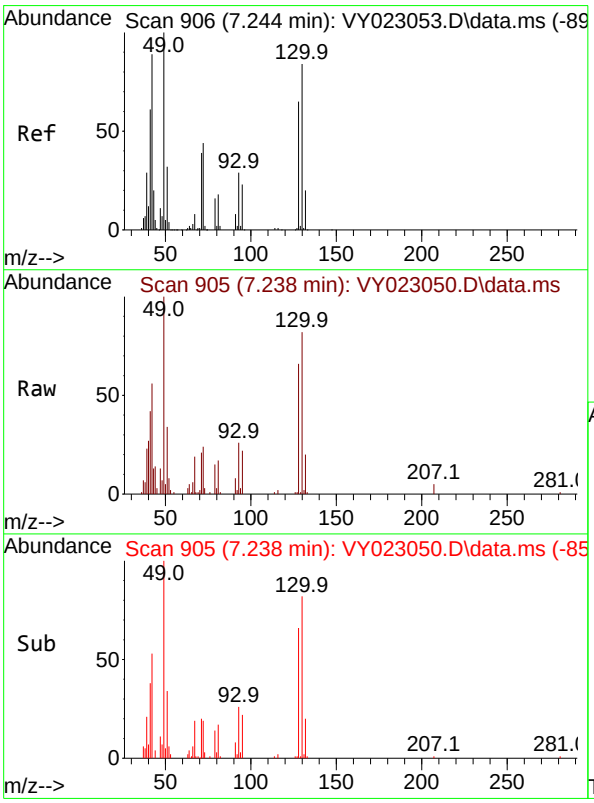
#27
cis-1,2-Dichloroethene
Concen: 4.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 34877

Ion	Ratio	Lower	Upper
96	100		
61	135.9	0.0	278.6
98	61.4	0.0	130.4

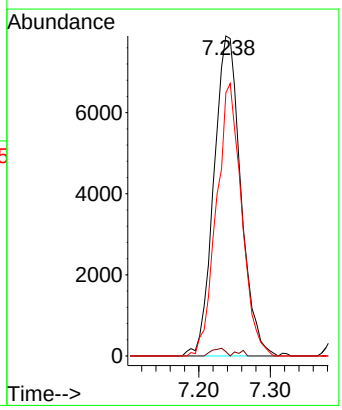


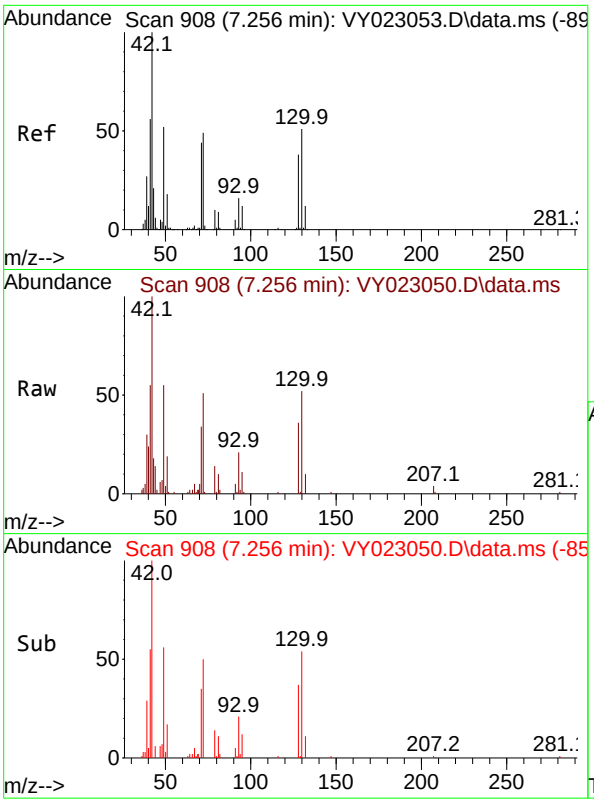


#28
Bromochloromethane
Concen: 4.913 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 49 Resp: 20615

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.2
130	79.7	66.4	99.6



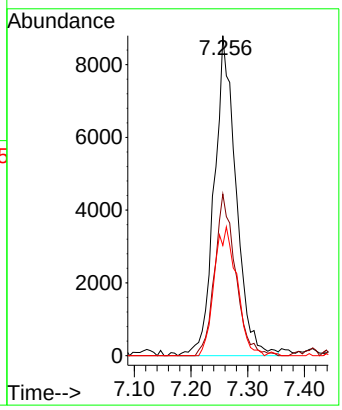


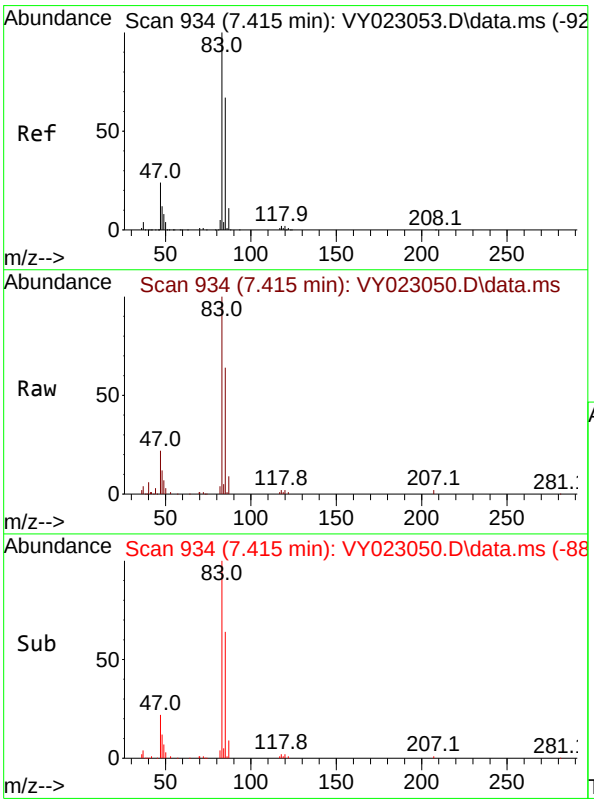
#29
Tetrahydrofuran
Concen: 24.035 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 23487

Ion	Ratio	Lower	Upper
42	100		
72	48.1	39.4	59.2
71	41.8	36.5	54.7

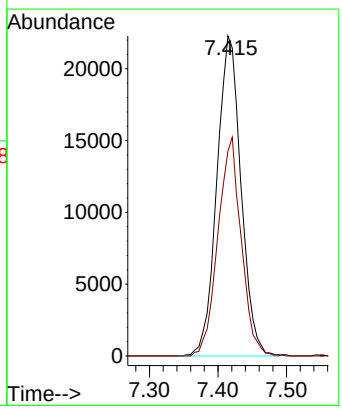


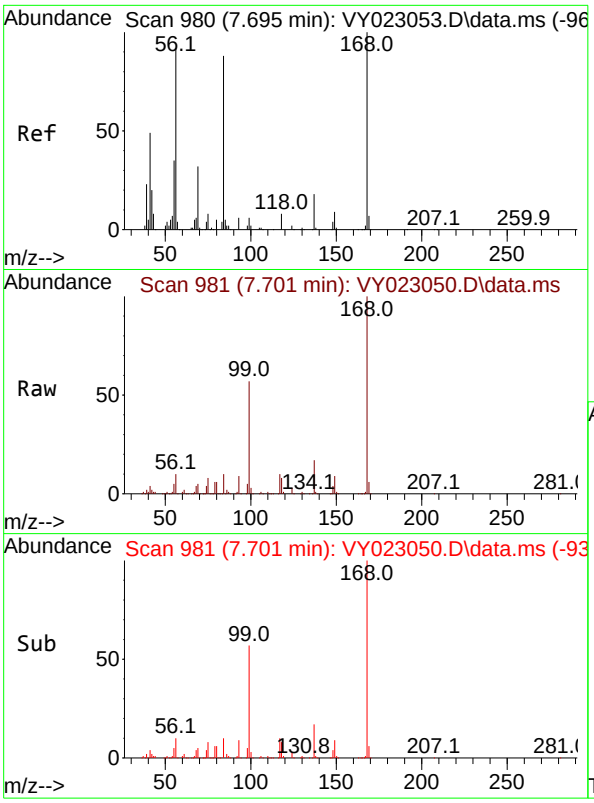


#30
Chloroform
Concen: 4.987 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 54392

Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.8	80.8



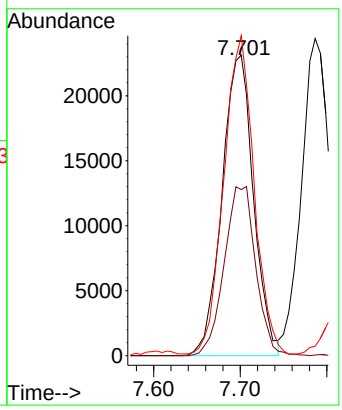


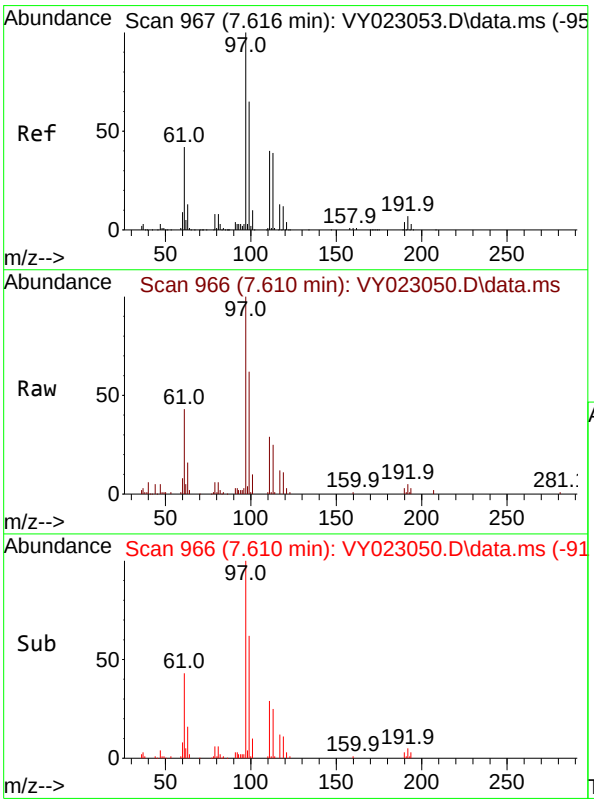
#31
Cyclohexane
Concen: 5.856 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 58362

Ion	Ratio	Lower	Upper
56	100		
69	55.3	28.2	42.2#
84	105.9	76.6	114.8

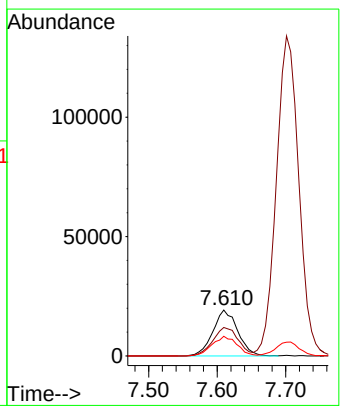


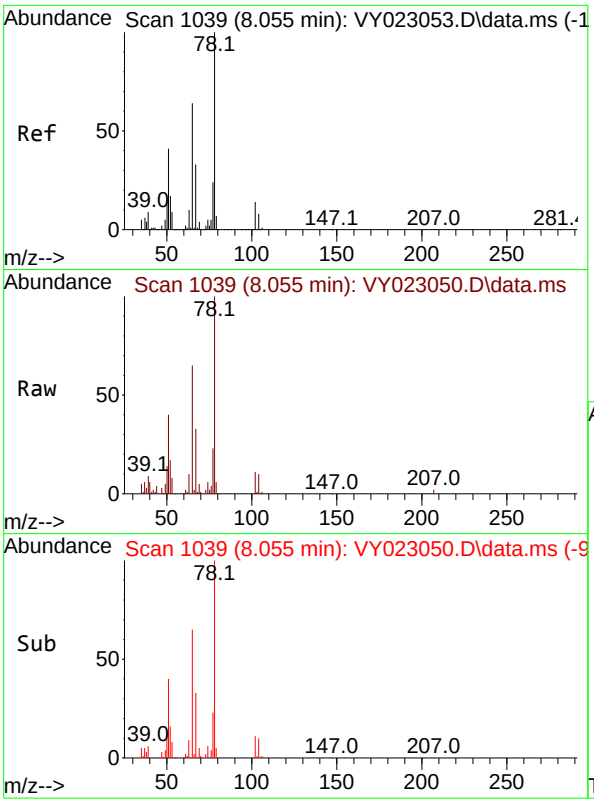


#32
1,1,1-Trichloroethane
Concen: 5.003 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 97 Resp: 48413

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.6	77.4
61	43.4	34.2	51.2



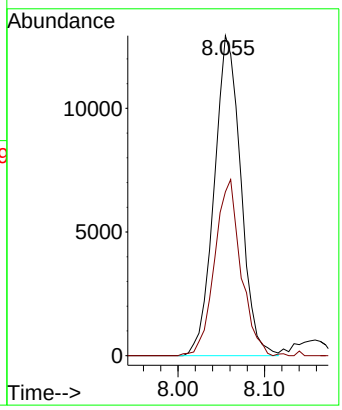


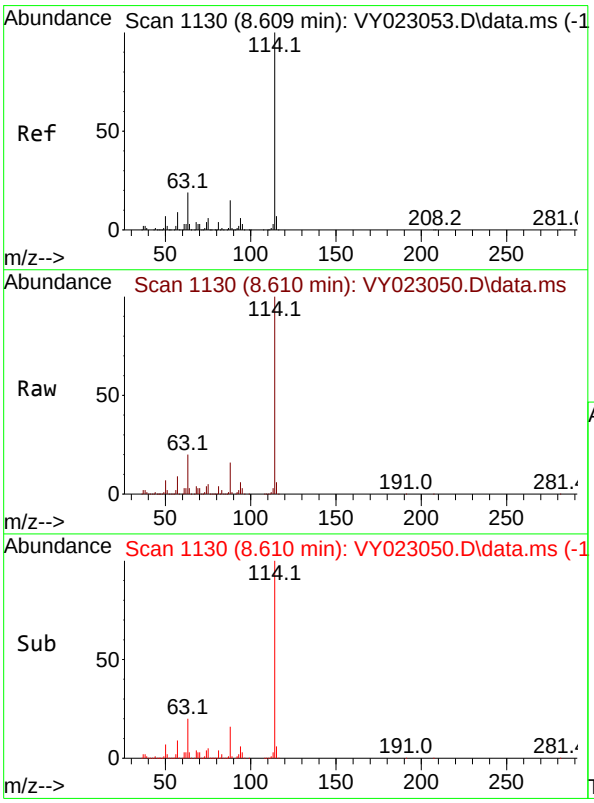
#33
1,2-Dichloroethane-d4
Concen: 5.152 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 27563

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	106.8

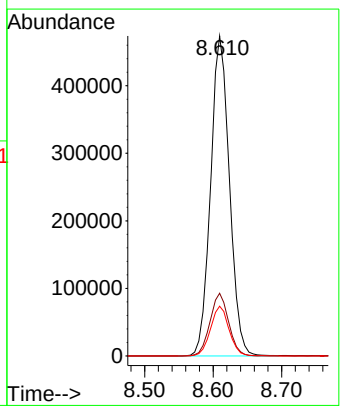


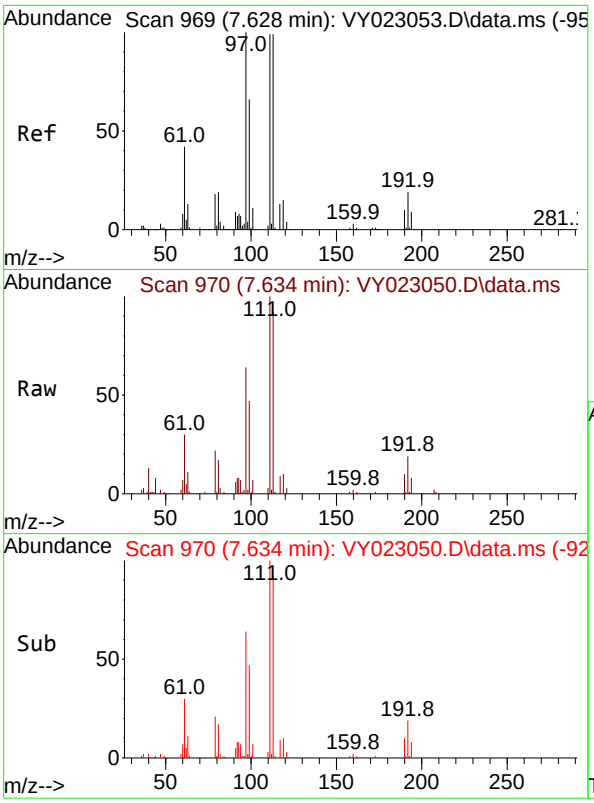


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:114 Resp: 904866

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.4
88	15.5	0.0	30.0



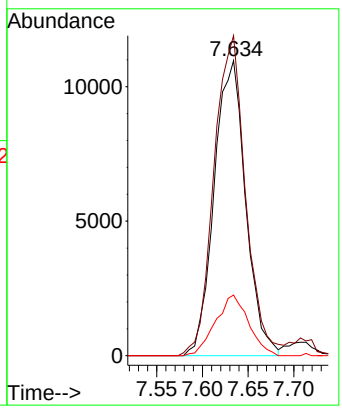


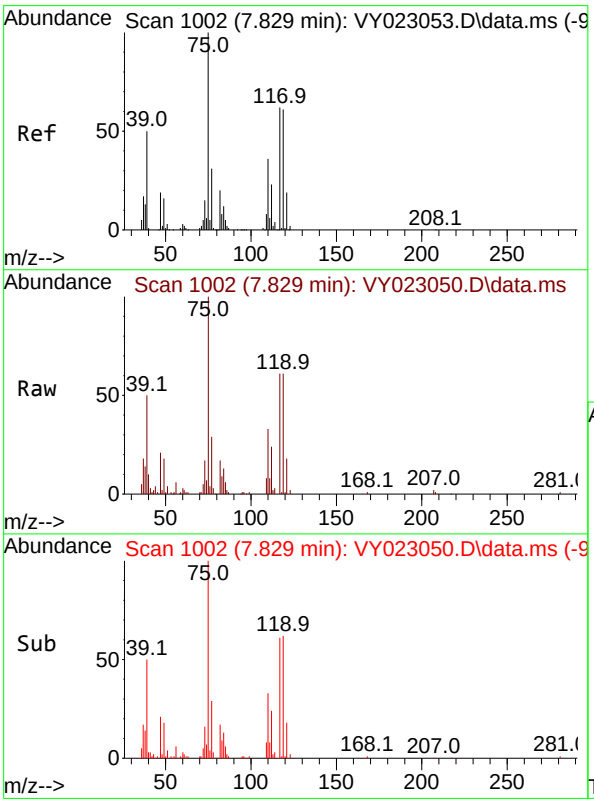
#35
Dibromofluoromethane
Concen: 4.851 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 26265

Ion	Ratio	Lower	Upper
113	100		
111	108.8	81.1	121.7
192	21.6	16.2	24.4

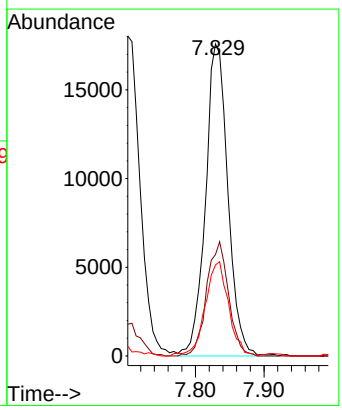


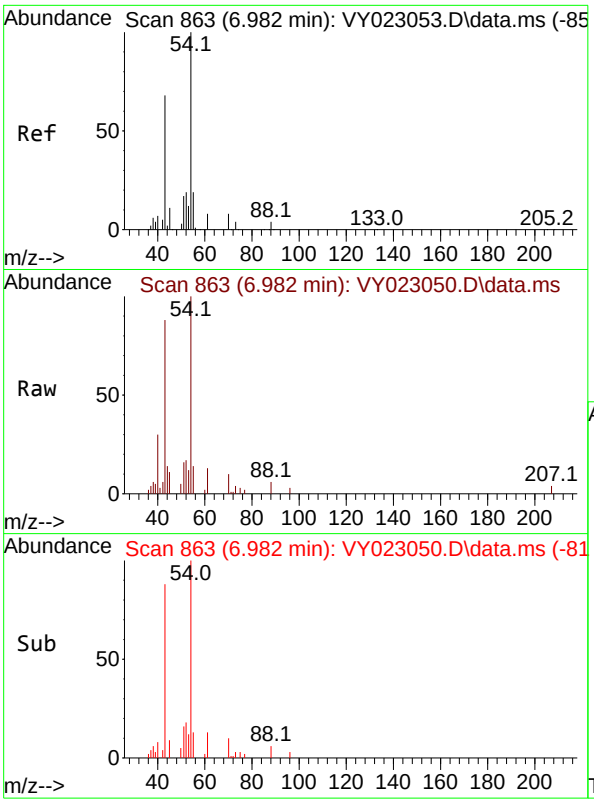


#36
1,1-Dichloropropene
Concen: 4.968 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 39978

Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.1	54.4
77	31.4	24.6	37.0



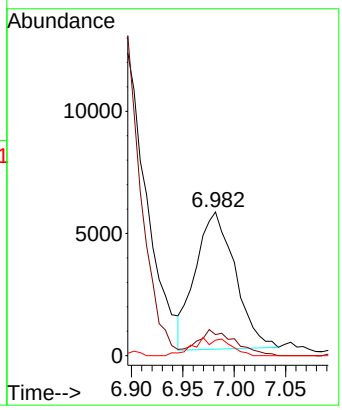


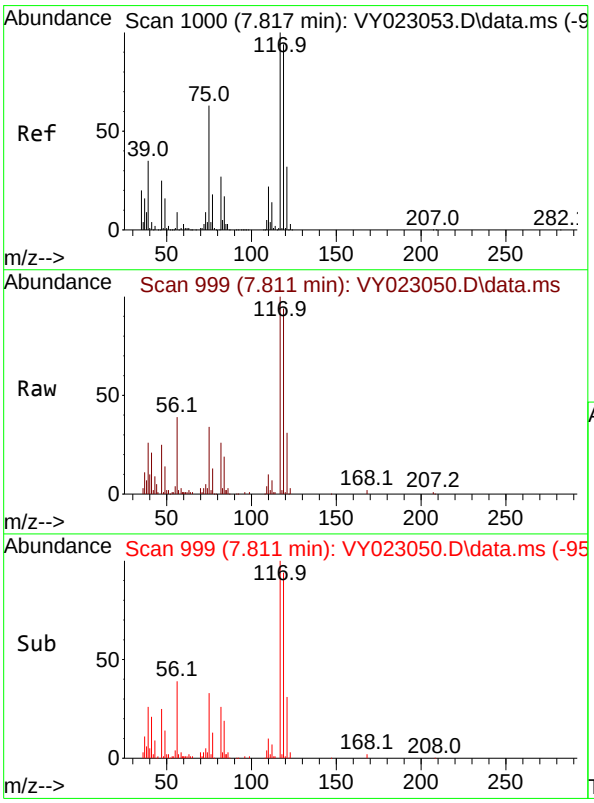
#37
Ethyl Acetate
Concen: 4.461 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 15080

Ion	Ratio	Lower	Upper
43	100		
61	18.1	11.9	17.9#
70	11.6	8.8	13.2

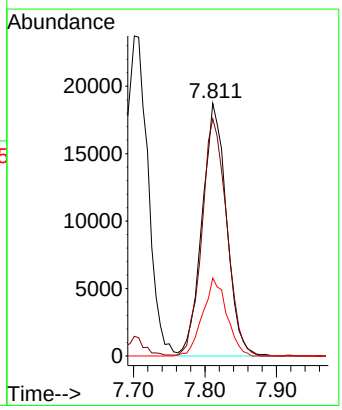


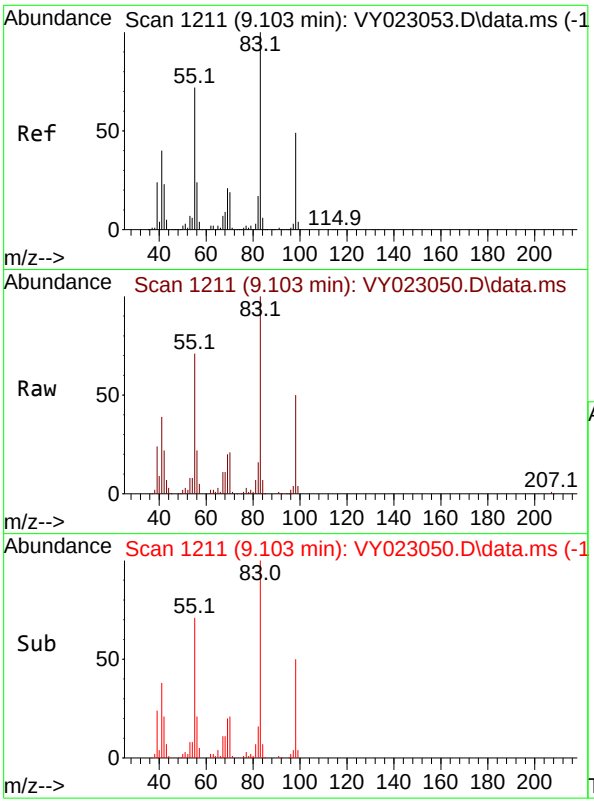


#38
Carbon Tetrachloride
Concen: 5.076 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 44360

Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.6	113.4
121	30.8	25.8	38.8



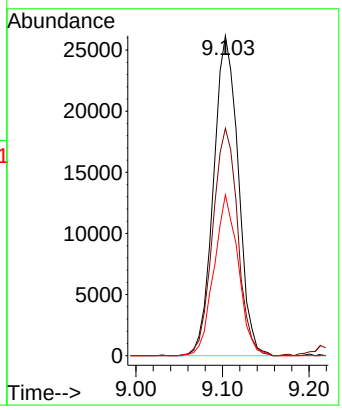


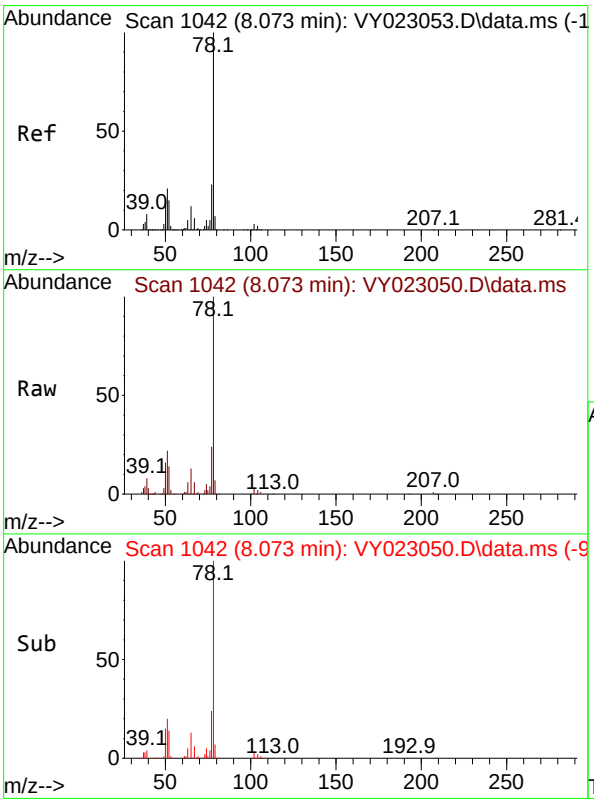
#39
Methylcyclohexane
Concen: 4.901 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 51931

Ion	Ratio	Lower	Upper
83	100		
55	71.1	57.6	86.4
98	50.2	39.2	58.8

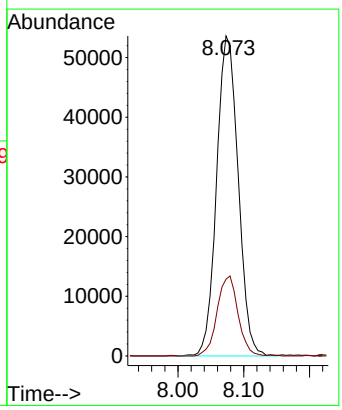


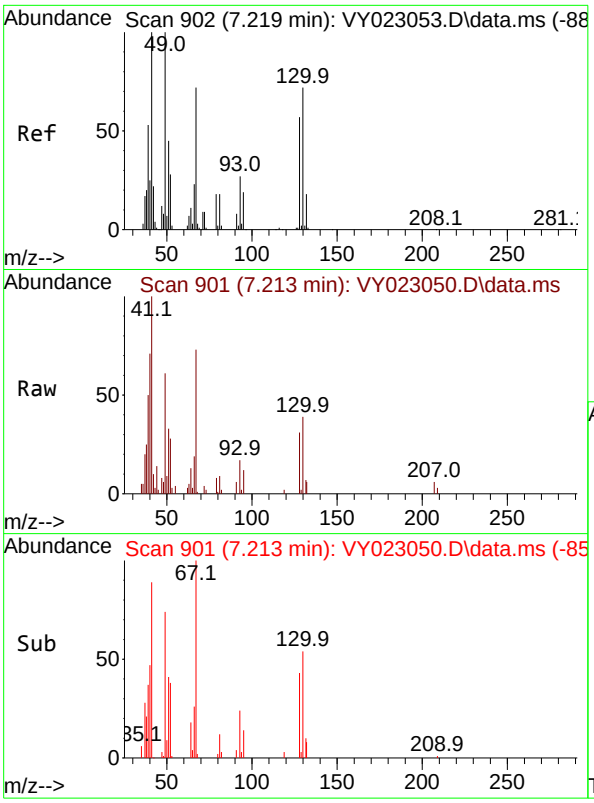


#40
Benzene
Concen: 4.939 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 78 Resp: 122482

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0



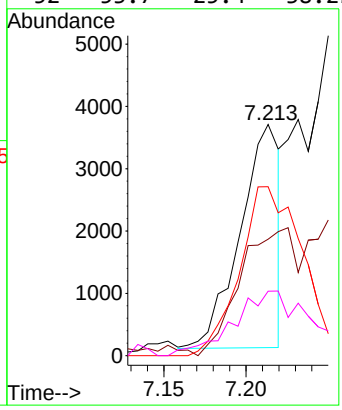


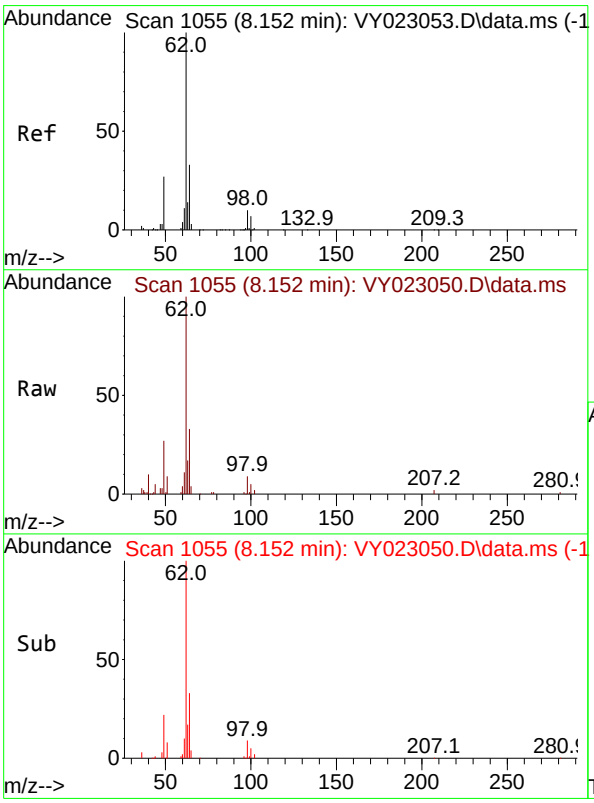
#41
Methacrylonitrile
Concen: 3.075 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 6006

Ion	Ratio	Lower	Upper
41	100		
39	80.4	43.4	65.2#
67	123.5	63.6	95.4#
52	53.7	25.4	38.2#

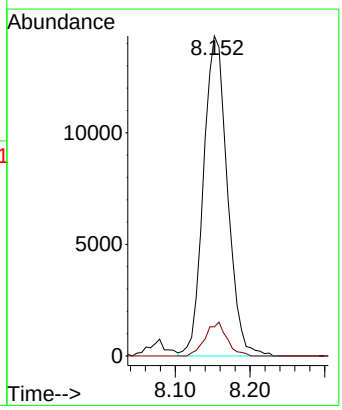


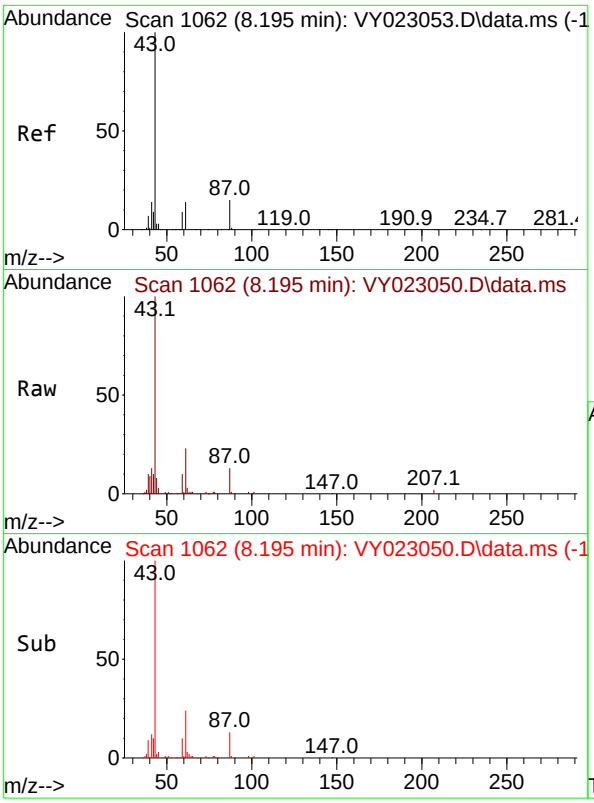


#42
1,2-Dichloroethane
Concen: 4.946 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 31902

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6



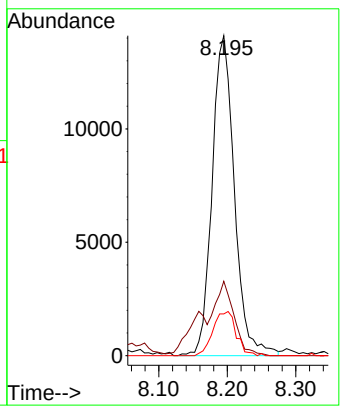


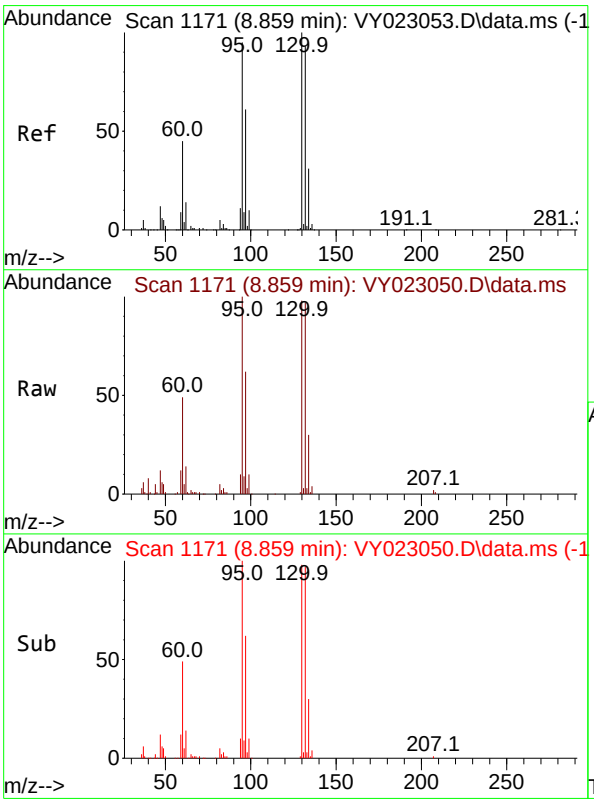
#43
Isopropyl Acetate
Concen: 4.668 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 31890

Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.4	24.6
87	14.4	11.8	17.6

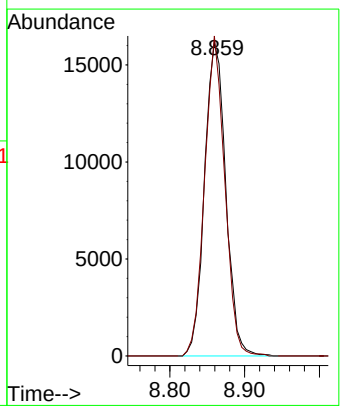


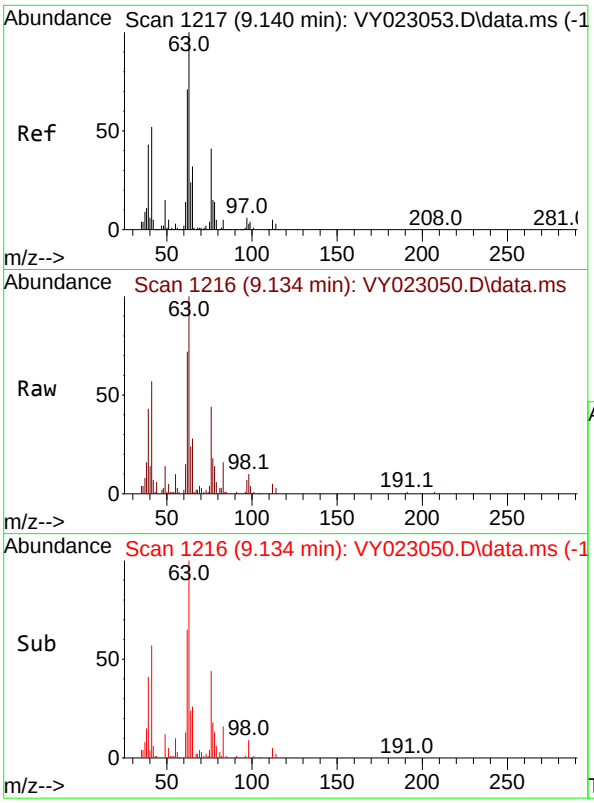


#44
Trichloroethene
Concen: 5.001 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:130 Resp: 32050

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	190.2



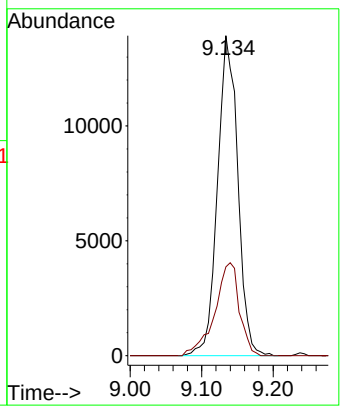


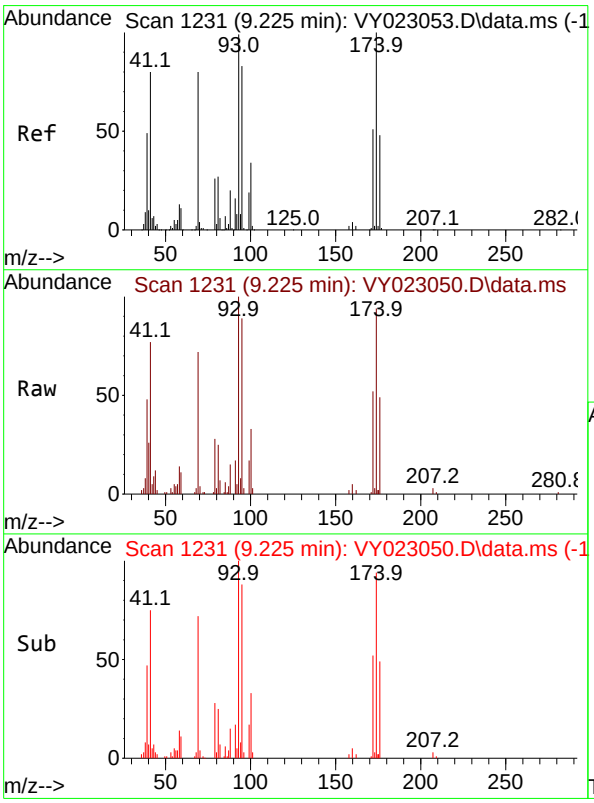
#45
1,2-Dichloropropane
Concen: 4.805 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 27418

Ion	Ratio	Lower	Upper
63	100		
65	27.7	25.3	37.9

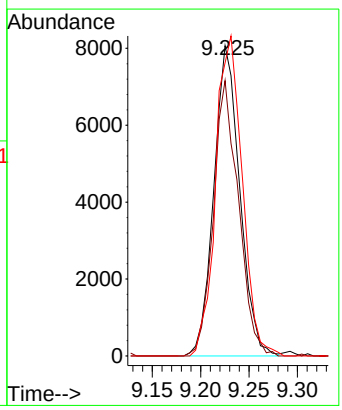


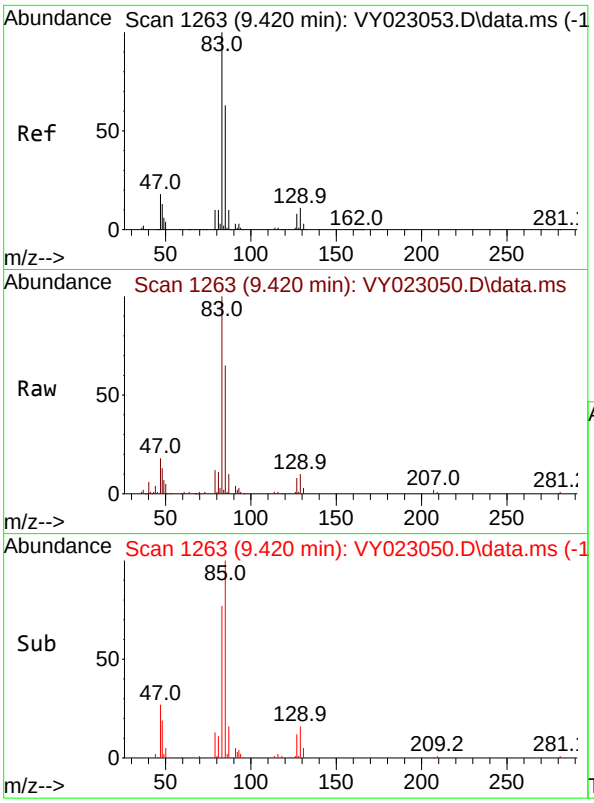


#46
Dibromomethane
Concen: 4.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 93 Resp: 15033

Ion	Ratio	Lower	Upper
93	100		
95	86.0	66.5	99.7
174	106.0	81.8	122.8



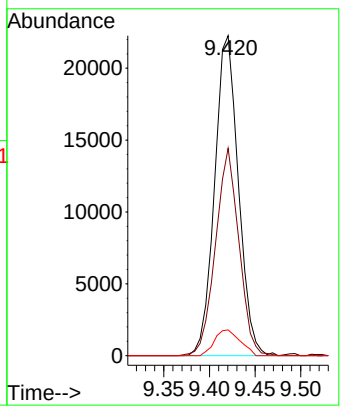


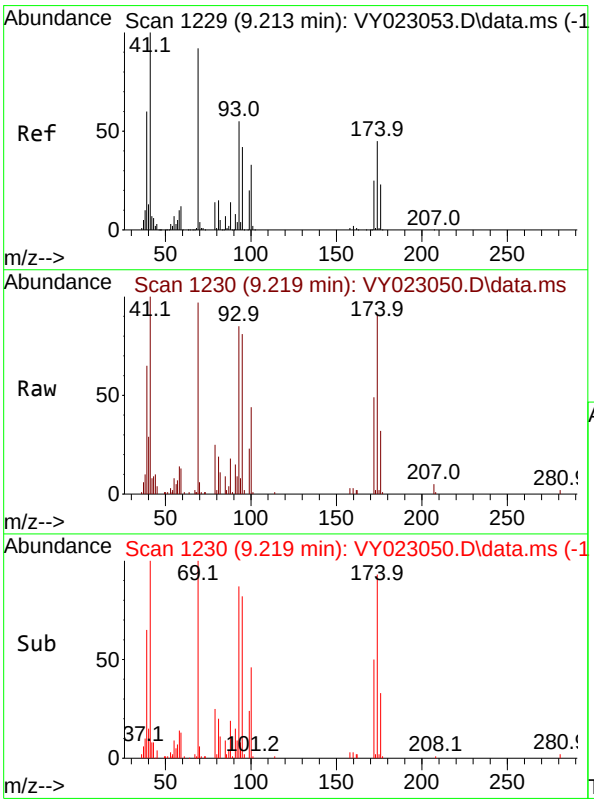
#47
Bromodichloromethane
Concen: 4.785 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 40327

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.2	75.4
127	8.1	6.6	10.0

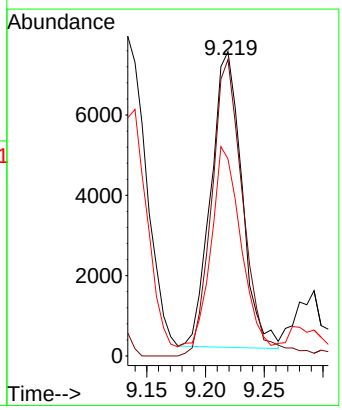


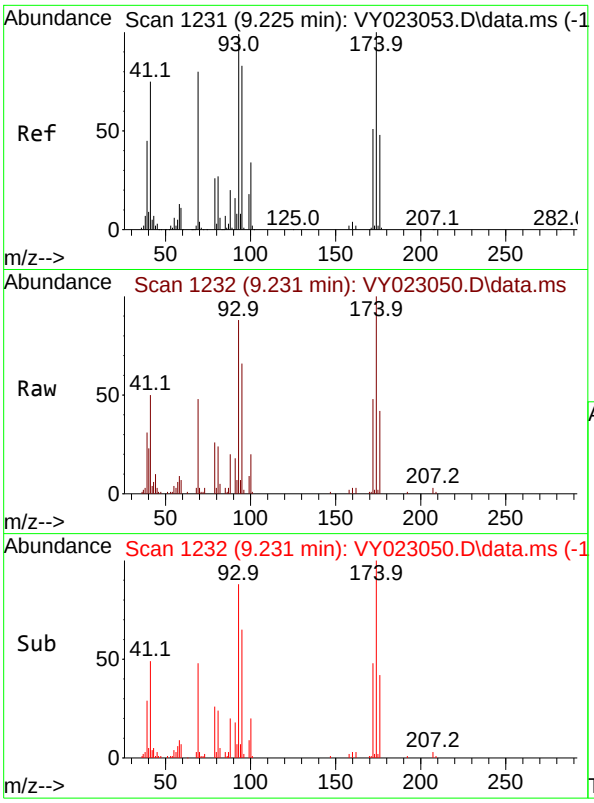


#48
Methyl methacrylate
Concen: 4.122 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 13477

Ion	Ratio	Lower	Upper
41	100		
69	102.1	73.2	109.8
39	65.2	47.0	70.4



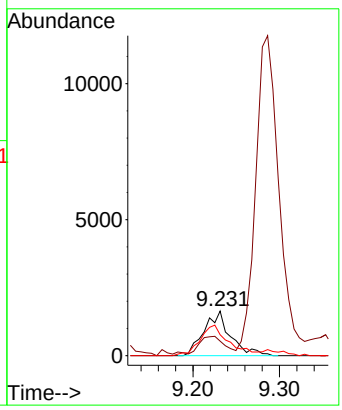


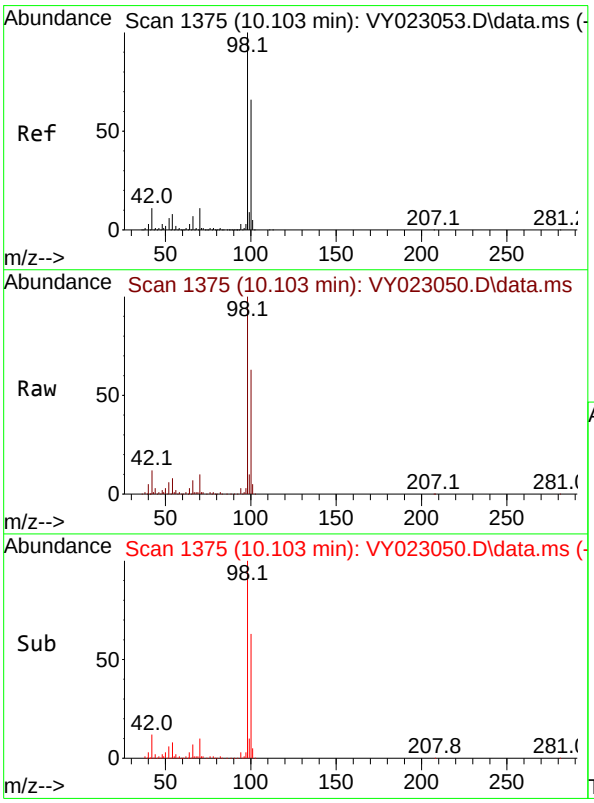
#49
1,4-Dioxane
Concen: 89.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 3454

Ion	Ratio	Lower	Upper
88	100		
43	38.3	24.3	36.5#
58	74.4	55.4	83.0

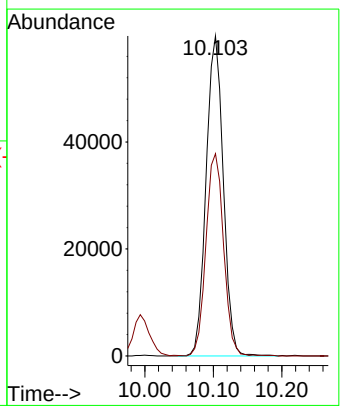


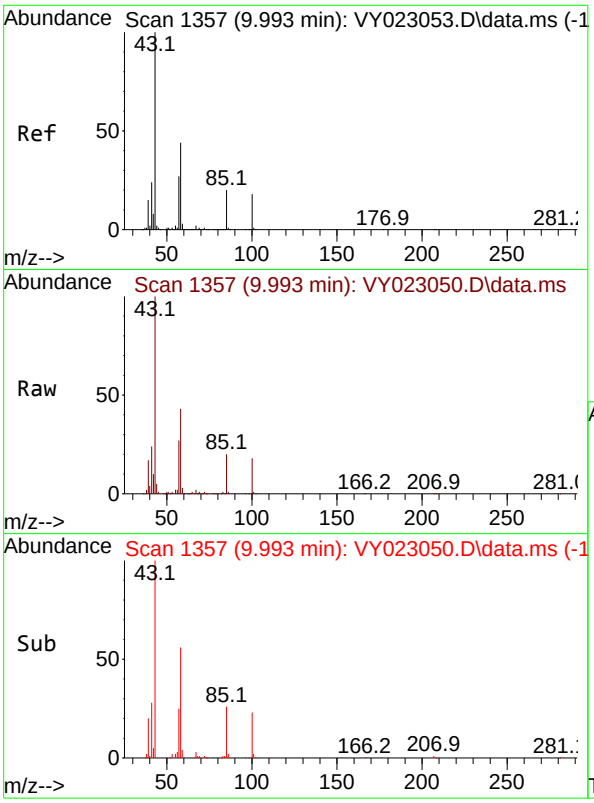


#50
Toluene-d8
Concen: 4.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 98 Resp: 104144

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5



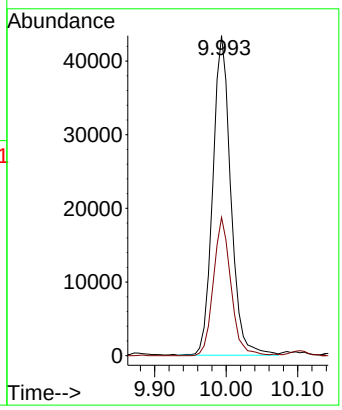


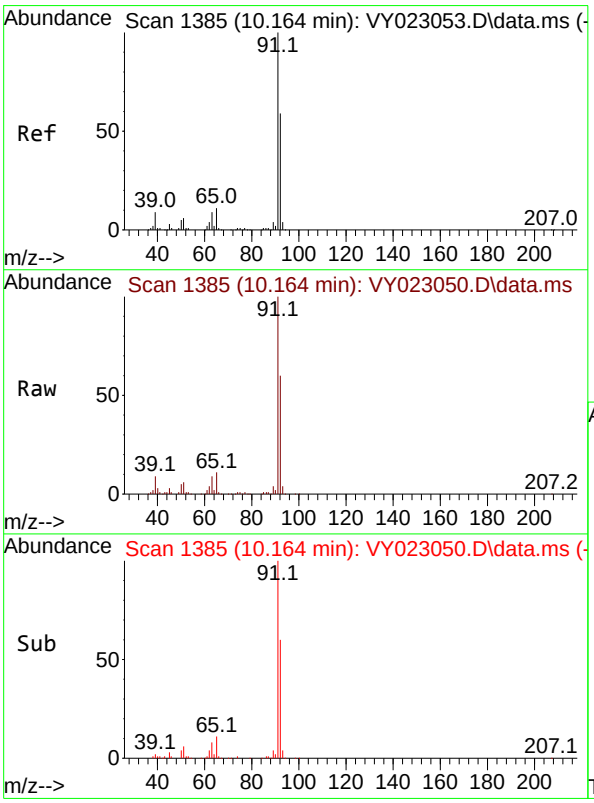
#51
4-Methyl-2-Pentanone
Concen: 21.535 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 75891

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3

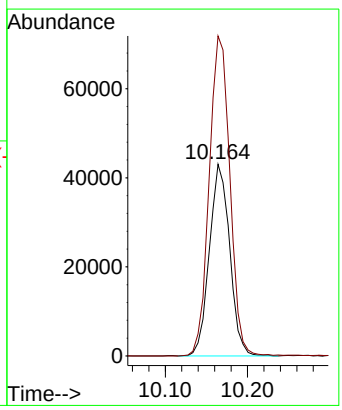


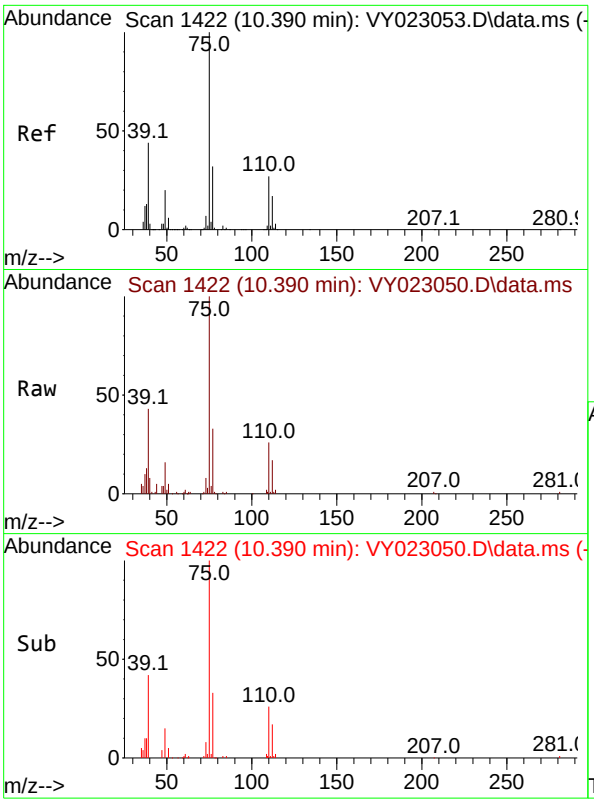


#52
Toluene
Concen: 4.692 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 92 Resp: 73910

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.4	204.6



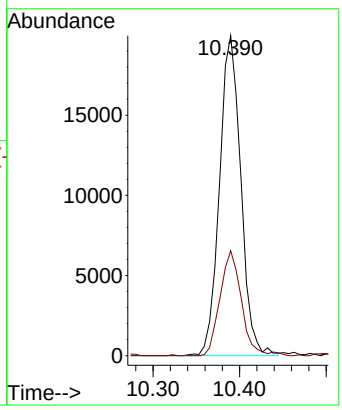


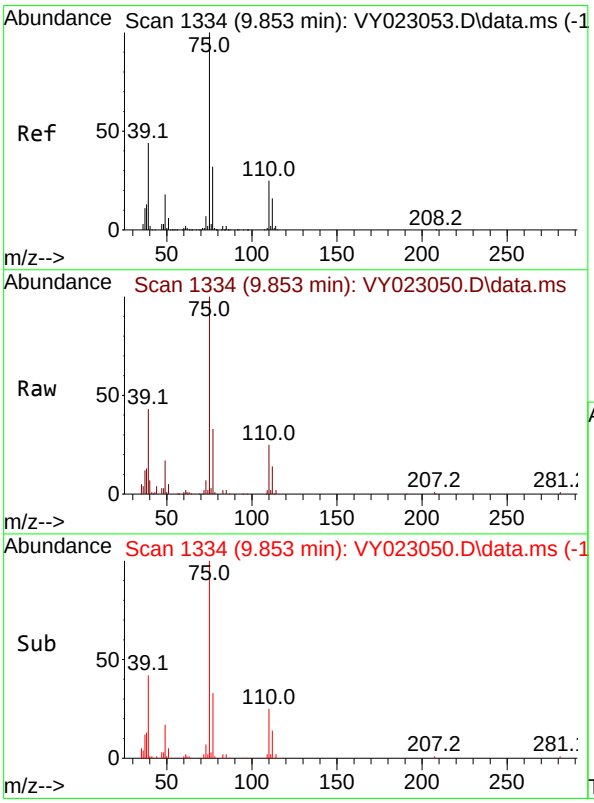
#53
t-1,3-Dichloropropene
Concen: 4.475 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 34154

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.7	38.5

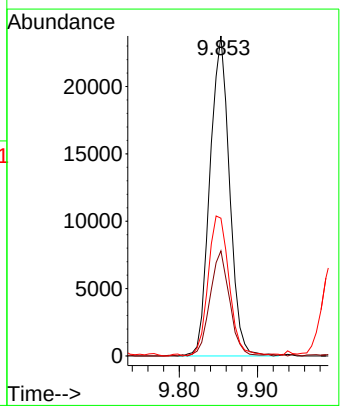


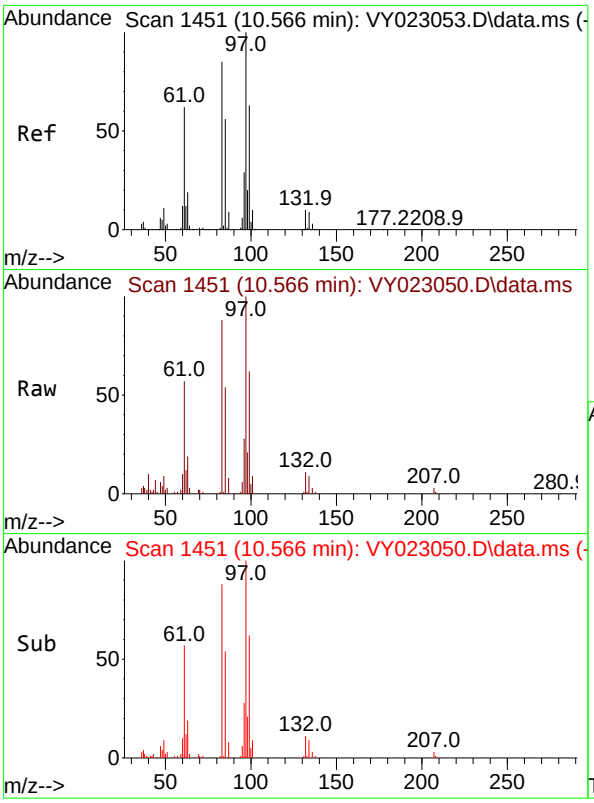


#54
cis-1,3-Dichloropropene
Concen: 4.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 41326

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.4	38.0
39	42.5	35.6	53.4



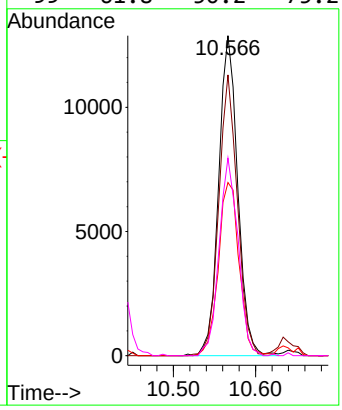


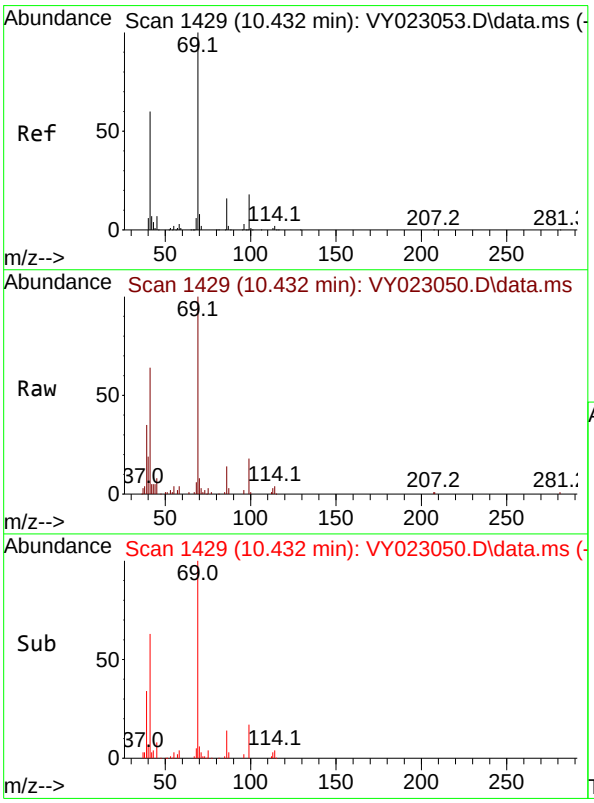
#55
1,1,2-Trichloroethane
Concen: 4.745 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 20795

Ion	Ratio	Lower	Upper
97	100		
83	87.8	67.7	101.5
85	54.1	44.5	66.7
99	61.8	50.2	75.2

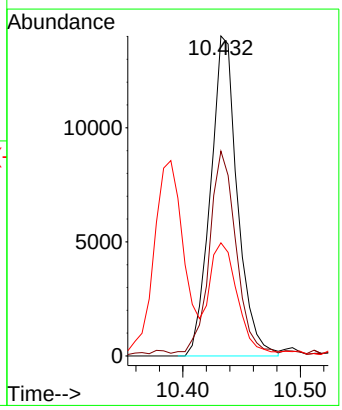


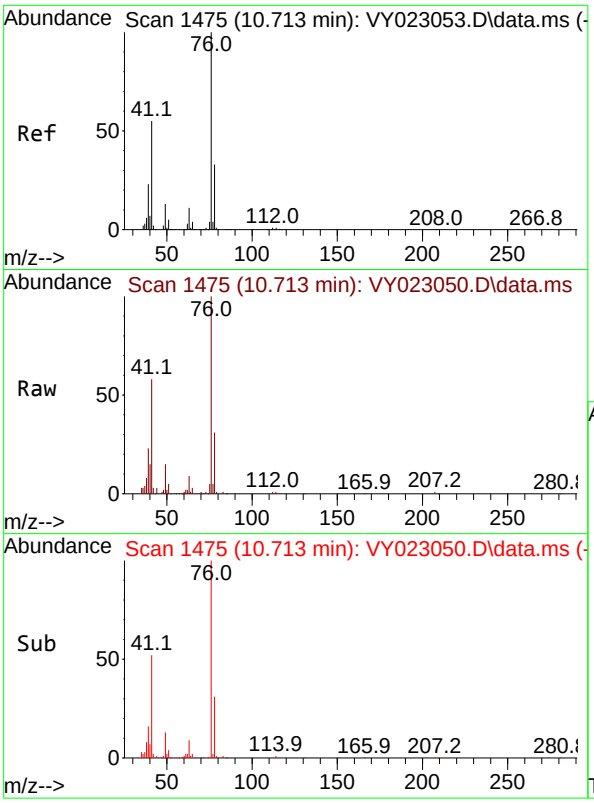


#56
Ethyl methacrylate
Concen: 3.990 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 69 Resp: 22376

Ion	Ratio	Lower	Upper
69	100		
41	61.6	48.6	72.8
39	34.3	27.0	40.4



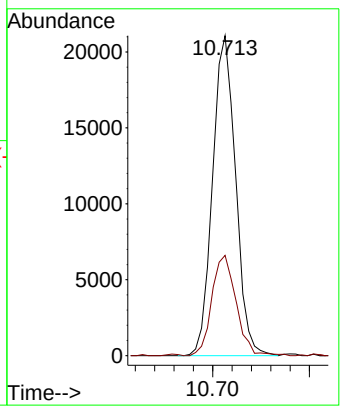


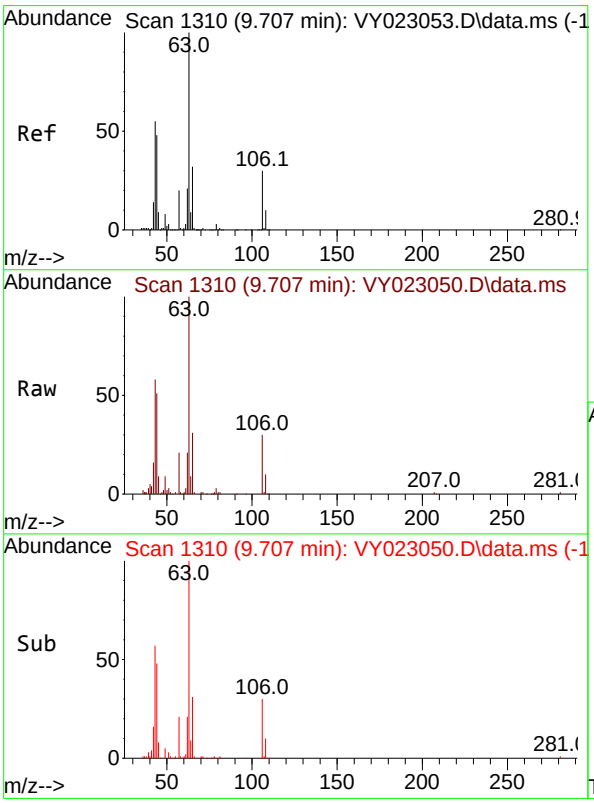
#57
1,3-Dichloropropane
Concen: 4.687 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 34835

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.0	39.0

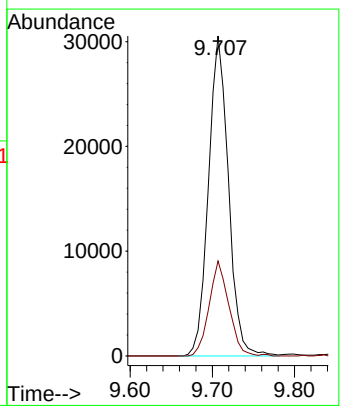


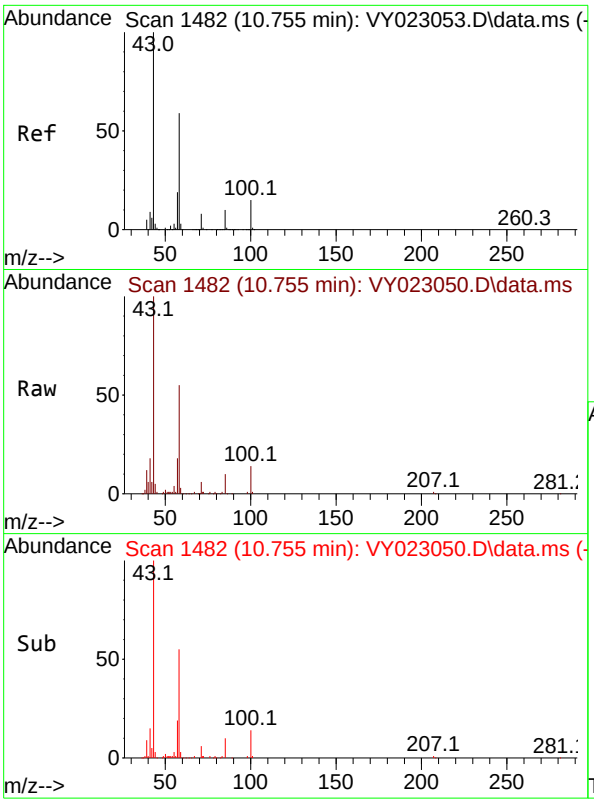


#58
2-Chloroethyl Vinyl ether
Concen: 19.500 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 51585

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.2	34.8



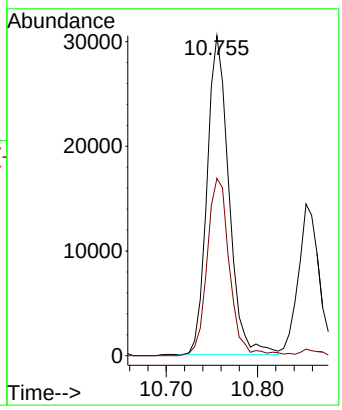


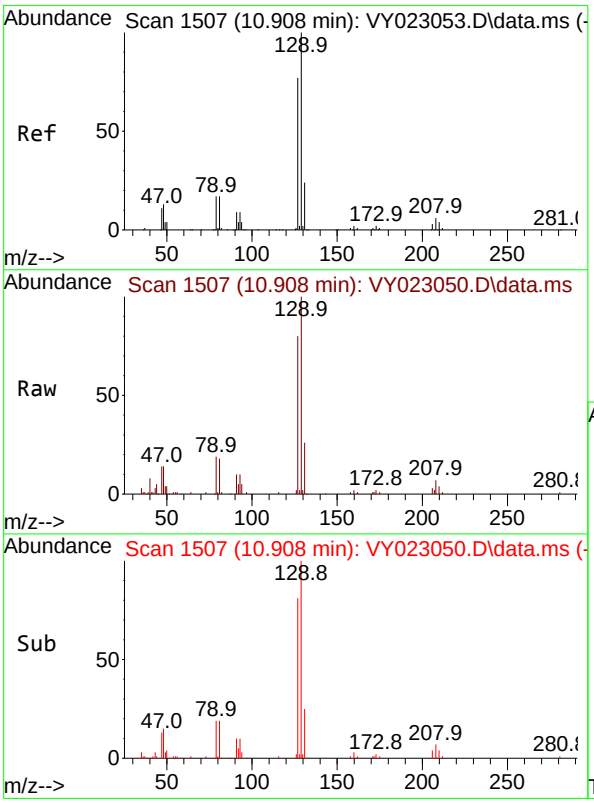
#59
2-Hexanone
Concen: 21.088 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 50604

Ion	Ratio	Lower	Upper
43	100		
58	56.9	29.5	88.5

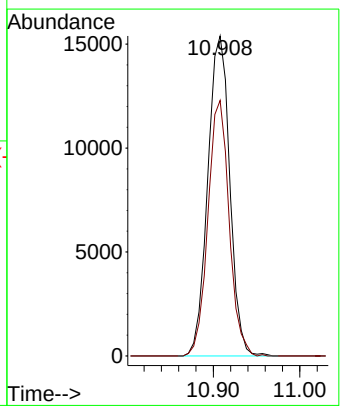


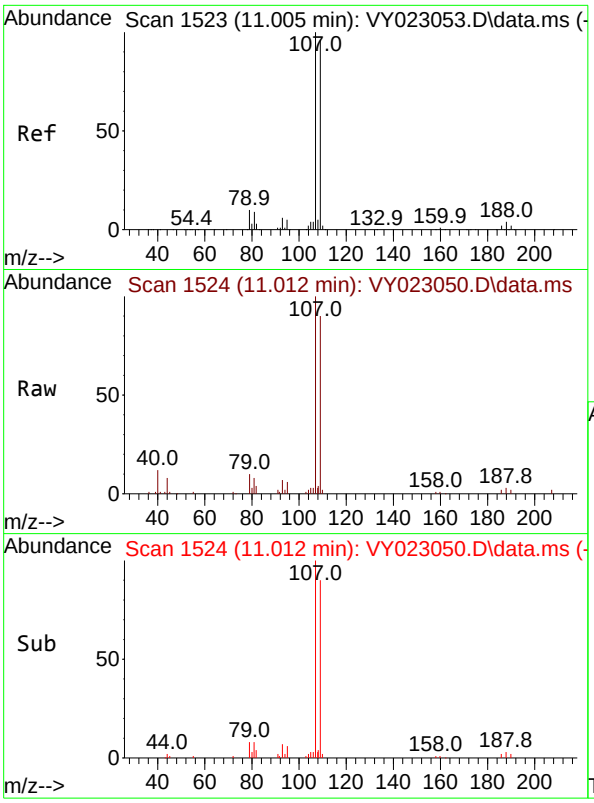


#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:129 Resp: 27141

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5



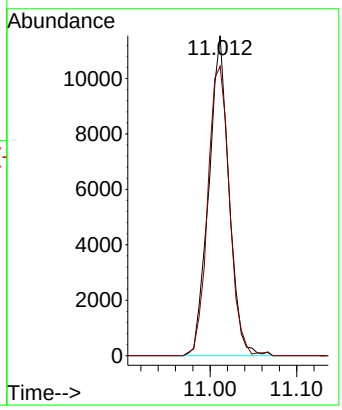


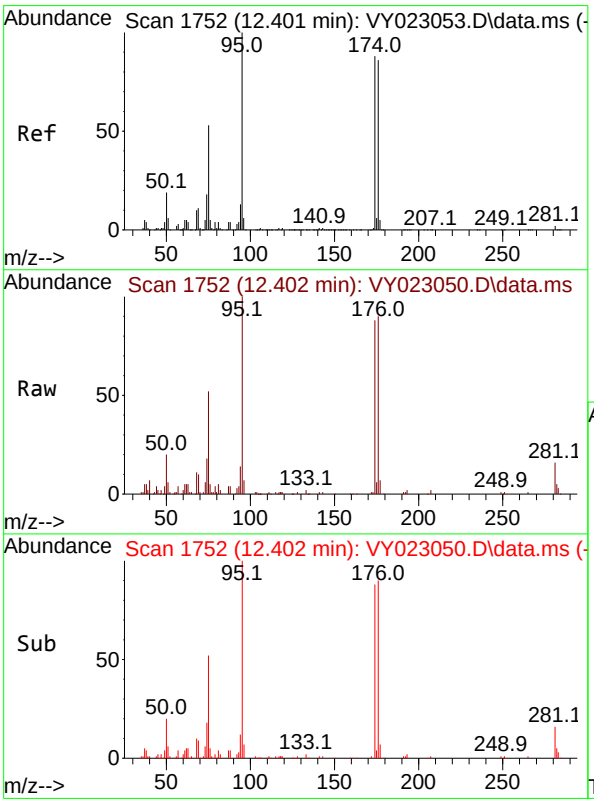
#61
1,2-Dibromoethane
Concen: 4.528 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 18652

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.6	113.4

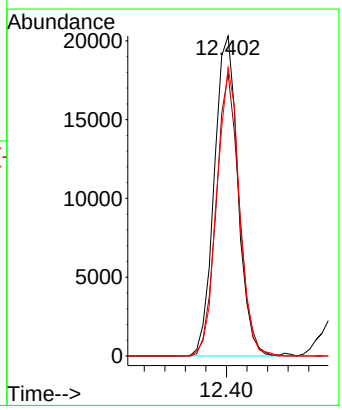


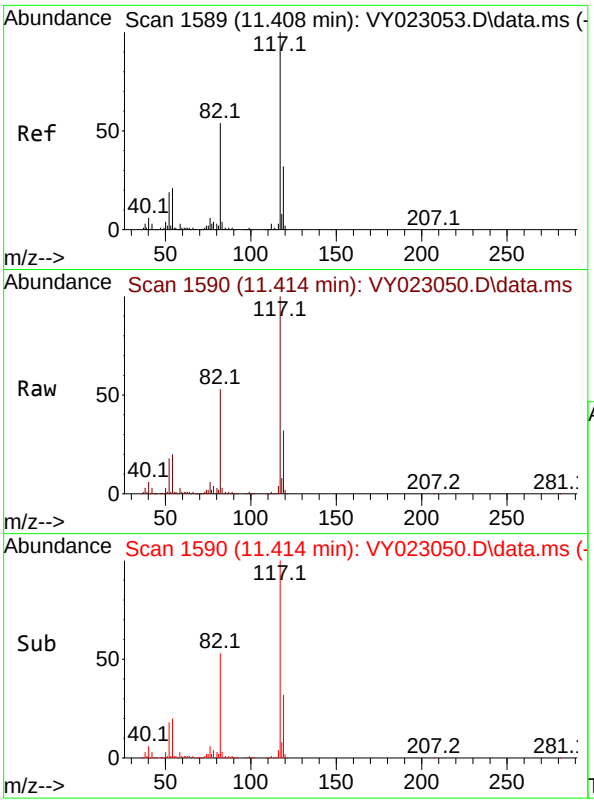


#62
4-Bromofluorobenzene
Concen: 4.766 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 95 Resp: 32420

Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	171.6
176	86.1	0.0	167.6



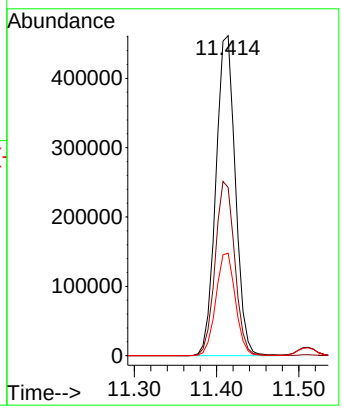


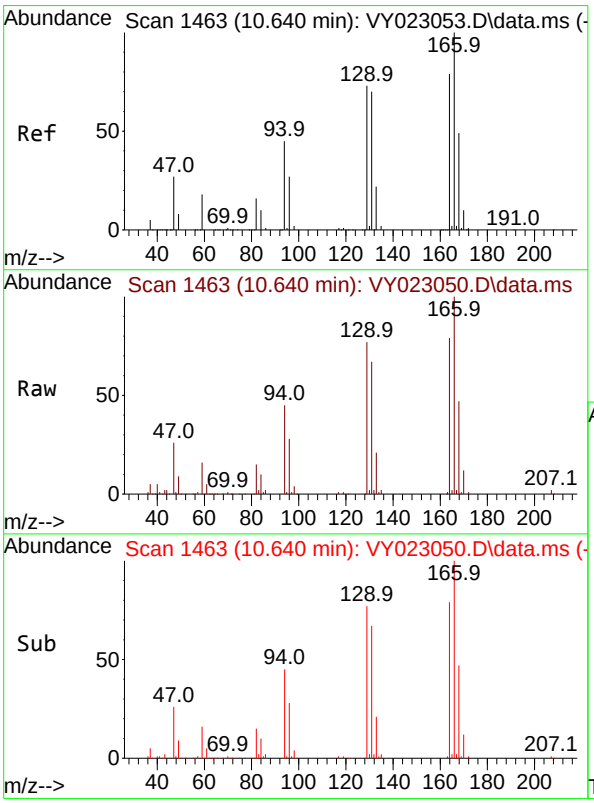
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 759914

Ion	Ratio	Lower	Upper
117	100		
82	52.6	43.4	65.0
119	32.1	25.6	38.4

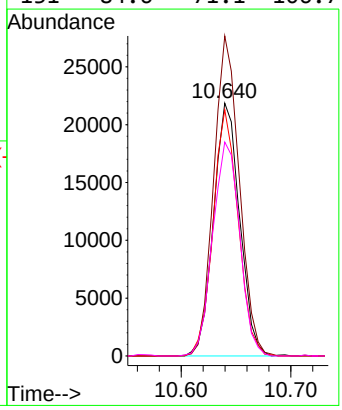


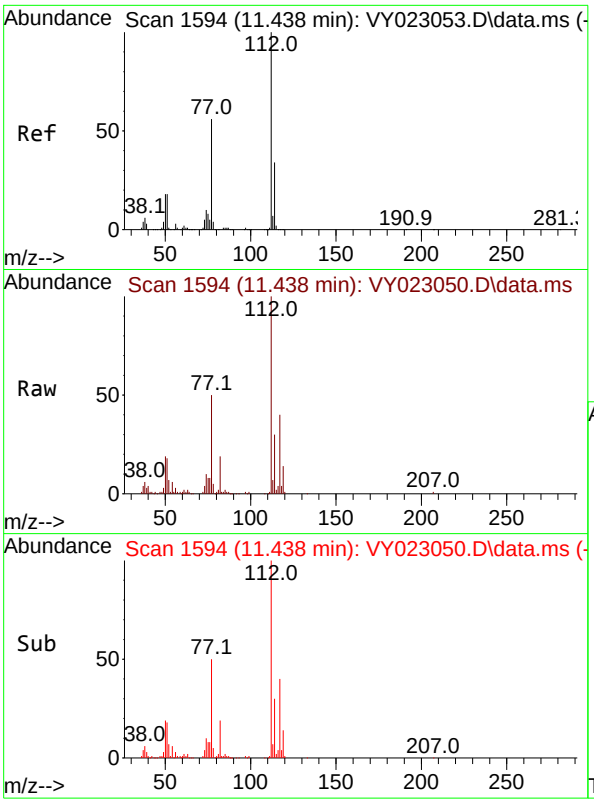


#64
Tetrachloroethene
Concen: 5.336 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:164 Resp: 36210

Ion	Ratio	Lower	Upper
164	100		
166	126.6	101.1	151.7
129	97.4	74.0	111.0
131	84.6	71.1	106.7



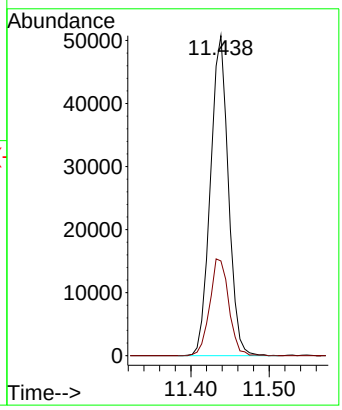


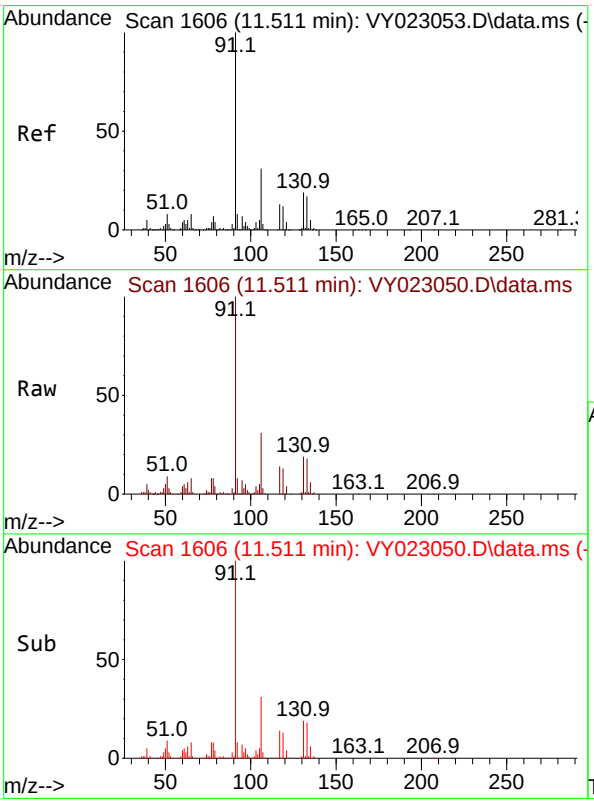
#65
Chlorobenzene
Concen: 4.922 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 80684

Ion	Ratio	Lower	Upper
112	100		
114	29.6	27.0	40.4

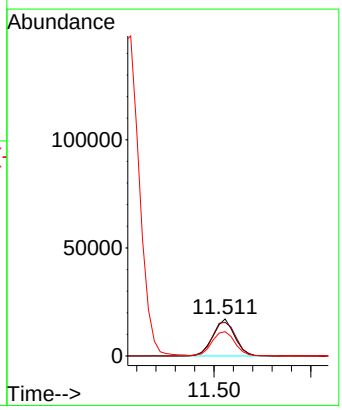


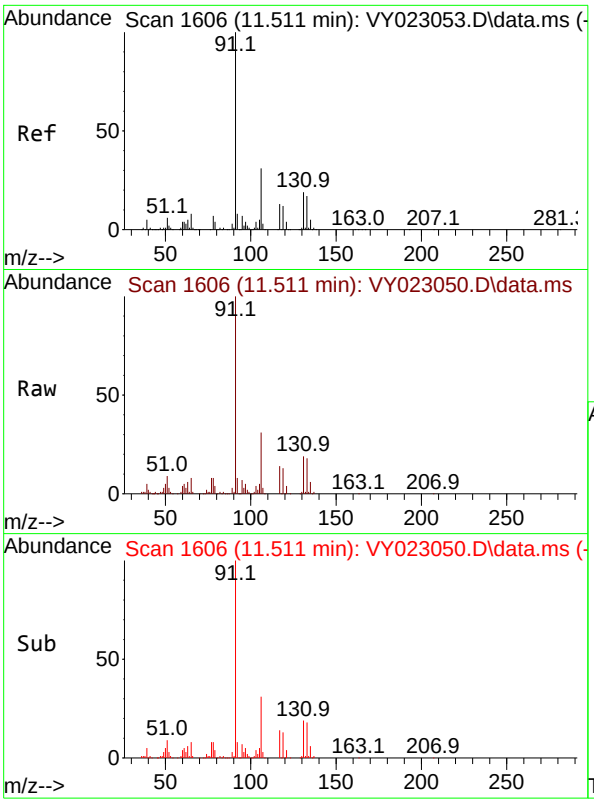


#66
1,1,1,2-Tetrachloroethane
Concen: 4.745 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:131 Resp: 26397

Ion	Ratio	Lower	Upper
131	100		
133	100.6	46.9	140.6
119	70.6	33.2	99.6



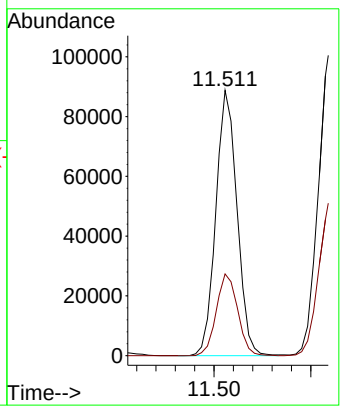


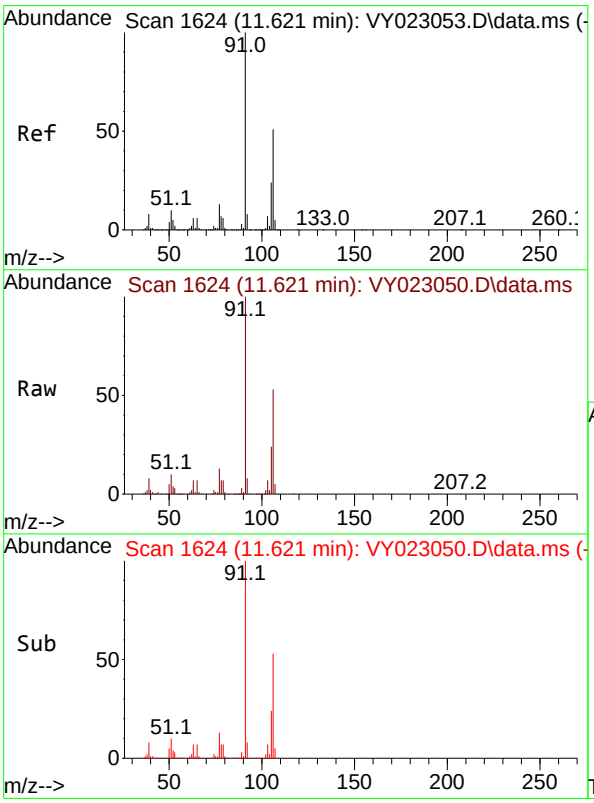
#67
Ethyl Benzene
Concen: 4.781 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 134854

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

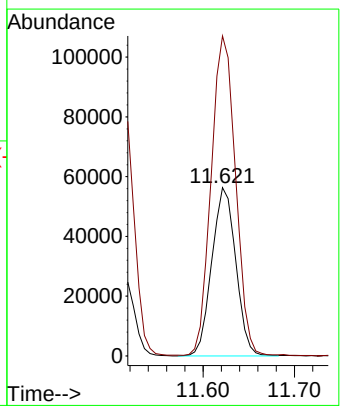


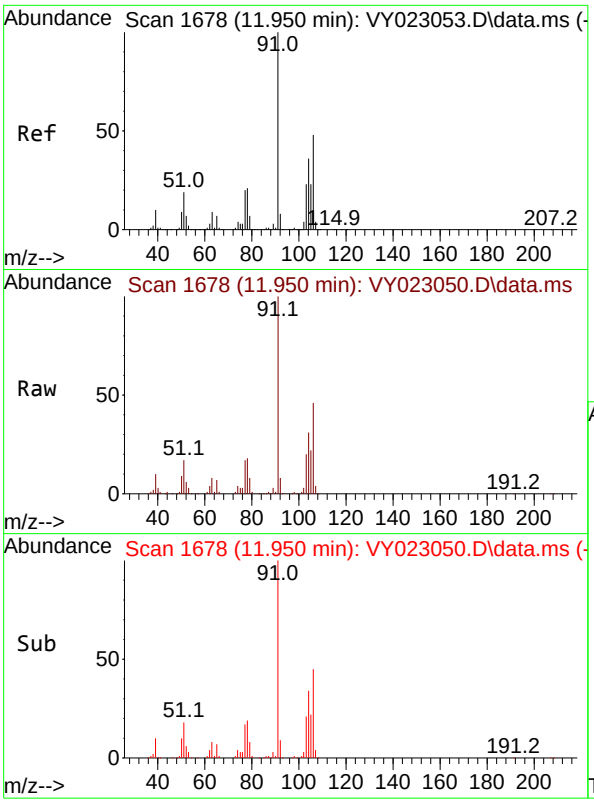


#68
m/p-Xylenes
Concen: 9.329 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 102783

Ion	Ratio	Lower	Upper
106	100		
91	194.0	158.6	238.0



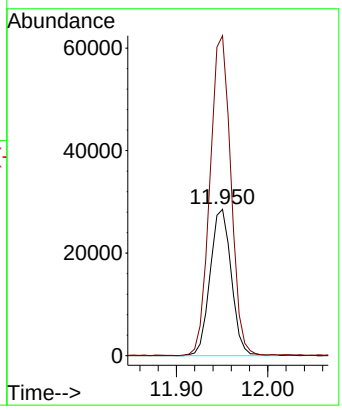


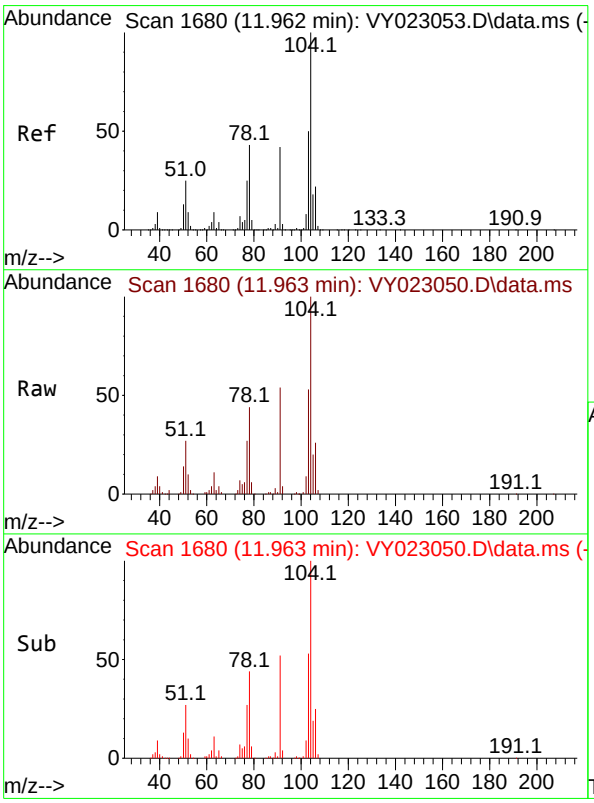
#69
o-Xylene
Concen: 4.453 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 45944

Ion	Ratio	Lower	Upper
106	100		
91	216.3	103.2	309.4

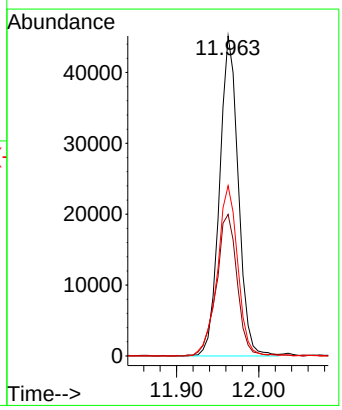


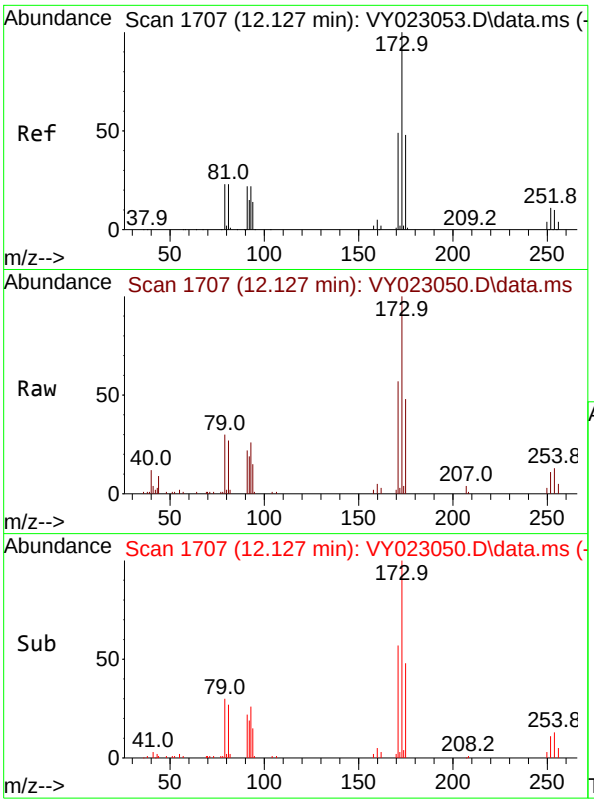


#70
Styrene
Concen: 4.255 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:104 Resp: 71801

Ion	Ratio	Lower	Upper
104	100		
78	48.8	38.5	57.7
103	57.6	43.7	65.5



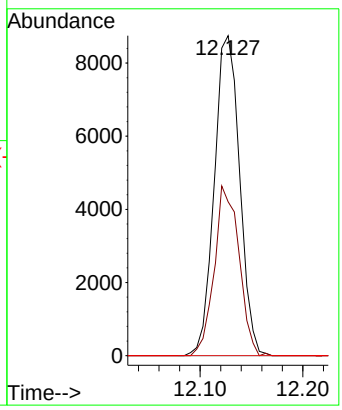


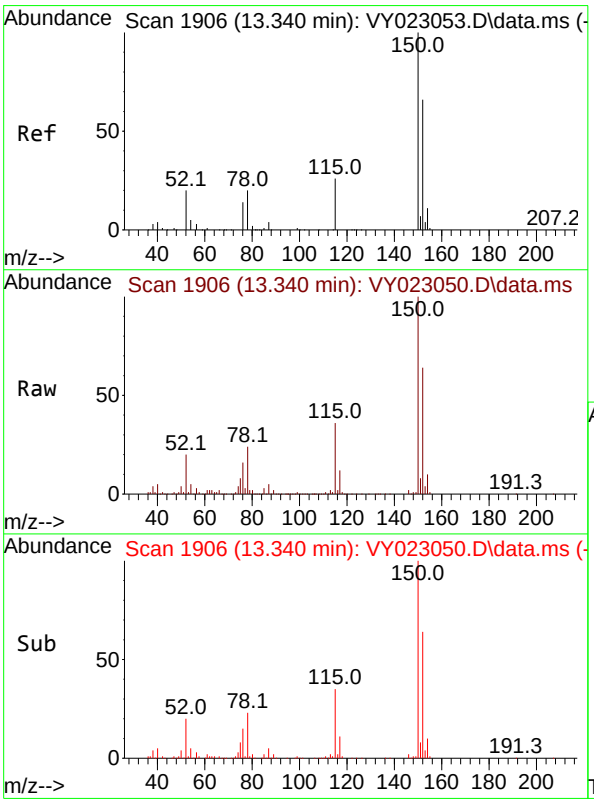
#71
Bromoform
Concen: 4.599 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 14954

Ion	Ratio	Lower	Upper
173	100		
175	51.7	23.9	71.7
254	0.0	0.1	0.1#

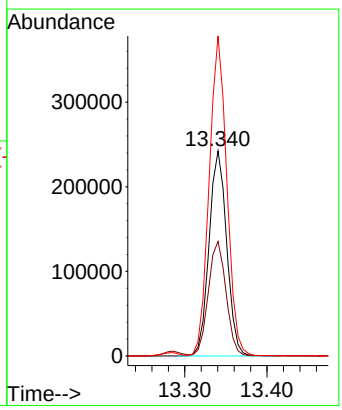


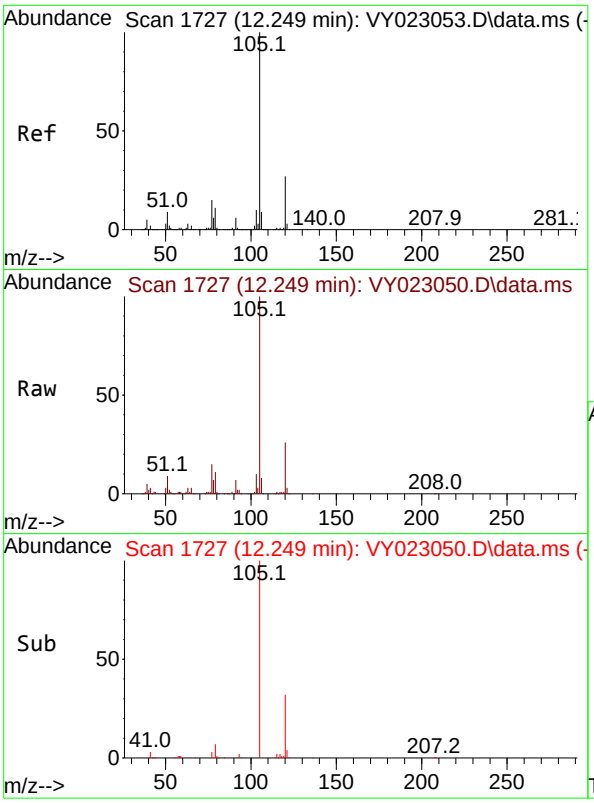


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:152 Resp: 360397

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	155.7	0.0	348.0



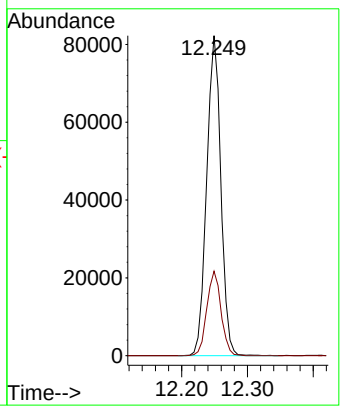


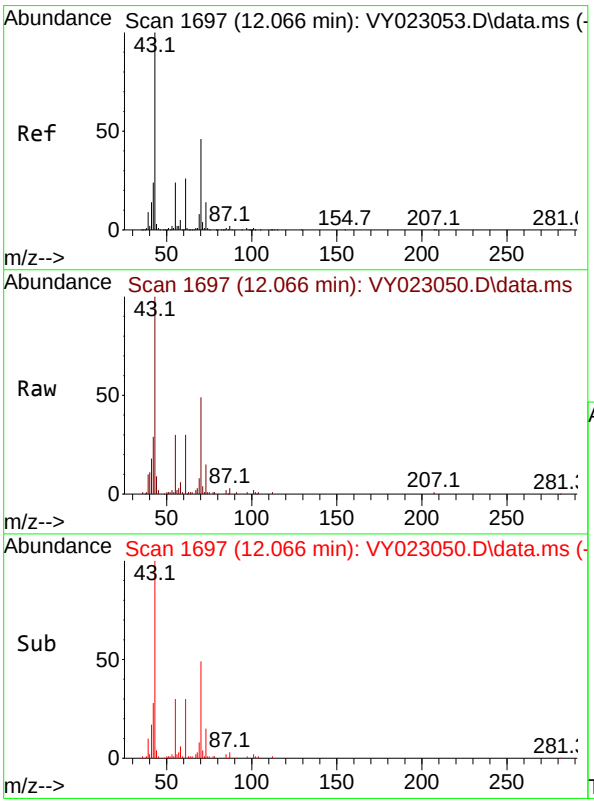
#73
Isopropylbenzene
Concen: 4.845 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 123246

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.4	40.2

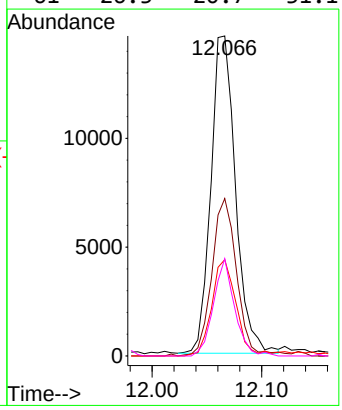


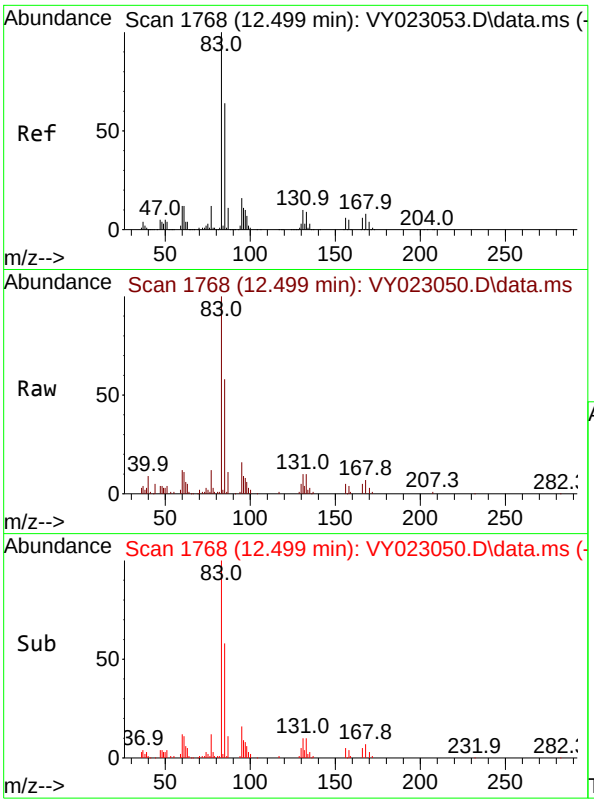


#74
N-amyl acetate
Concen: 4.232 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 22829

Ion	Ratio	Lower	Upper
43	100		
70	50.0	37.5	56.3
55	29.9	20.7	31.1
61	26.3	20.7	31.1



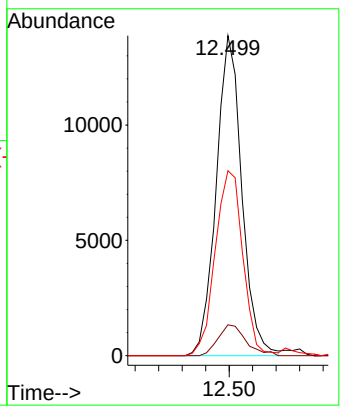


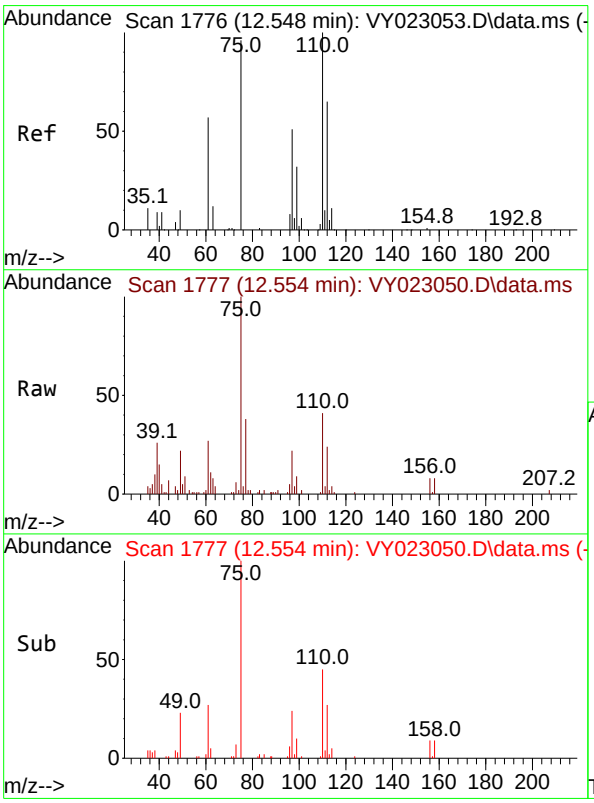
#75
1,1,2,2-Tetrachloroethane
Concen: 4.848 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 21057

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	62.2	31.8	95.3

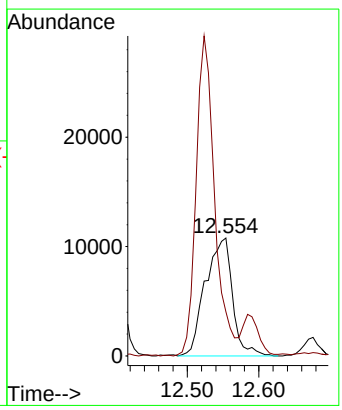


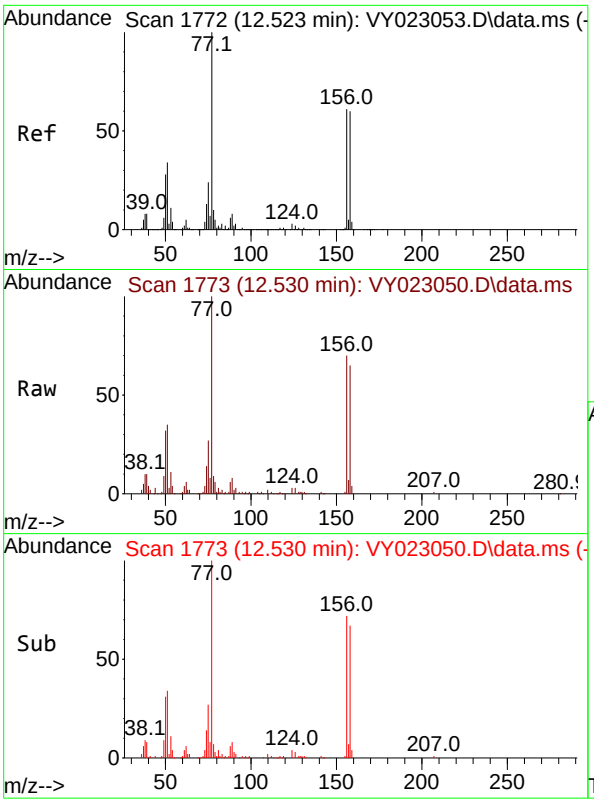


#76
1,2,3-Trichloropropane
Concen: 8.152 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 28374

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



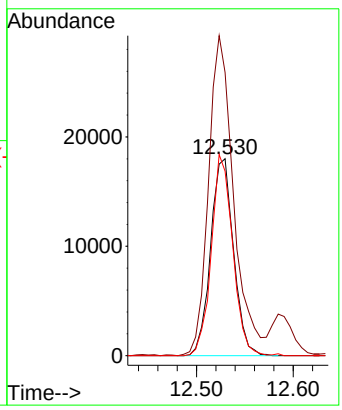


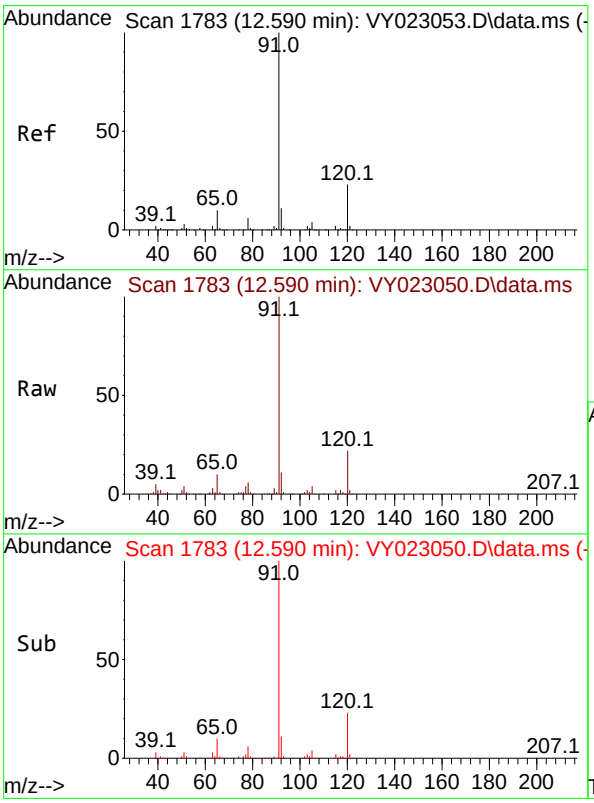
#77
Bromobenzene
Concen: 4.891 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 29681

Ion	Ratio	Lower	Upper
156	100		
77	176.7	88.1	264.4
158	95.4	48.0	144.0

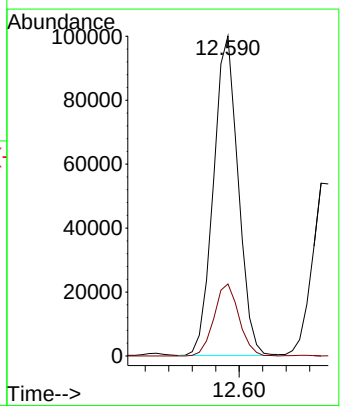


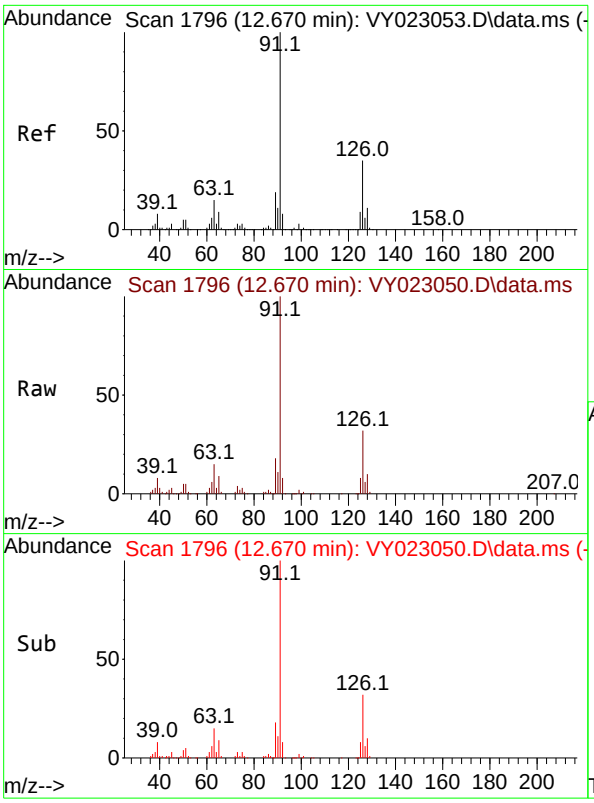


#78
n-propylbenzene
Concen: 4.822 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 146043

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.5	34.5



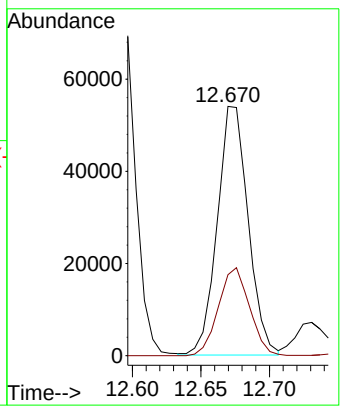


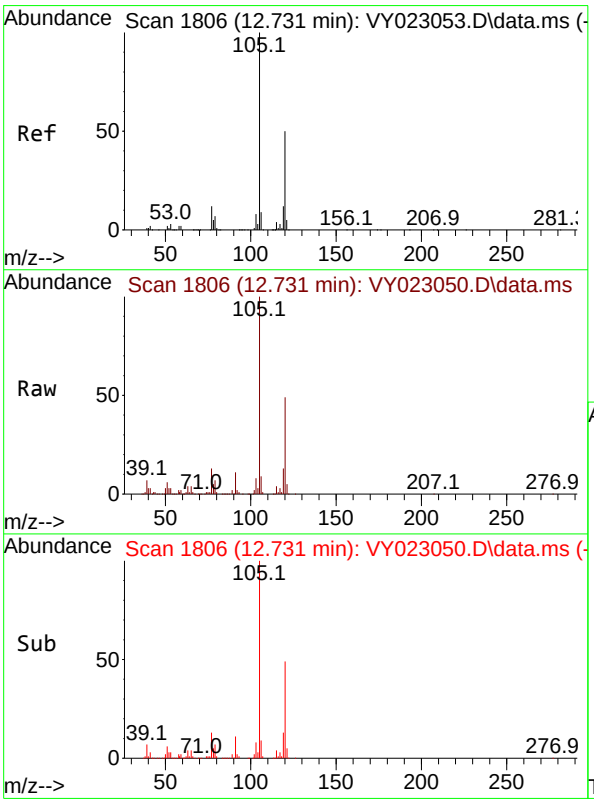
#79
2-Chlorotoluene
Concen: 4.880 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 84671

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.4	52.3

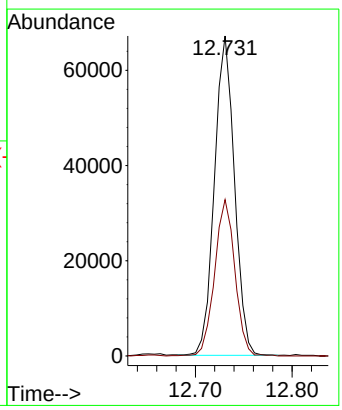


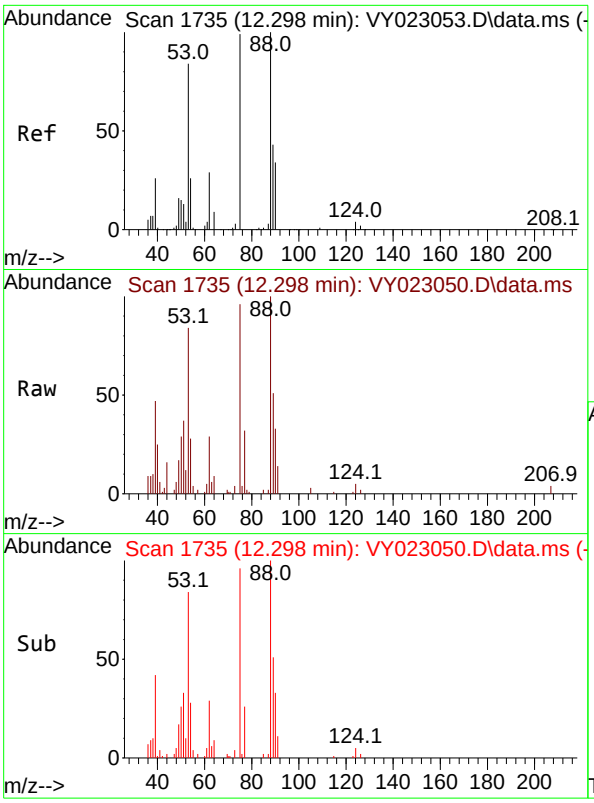


#80
1,3,5-Trimethylbenzene
Concen: 4.685 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 96308

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



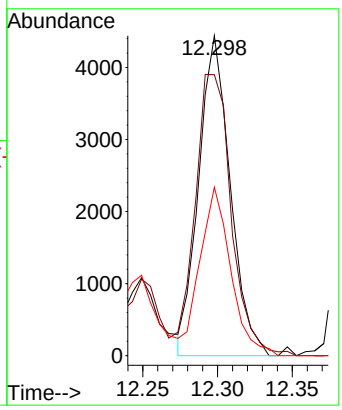


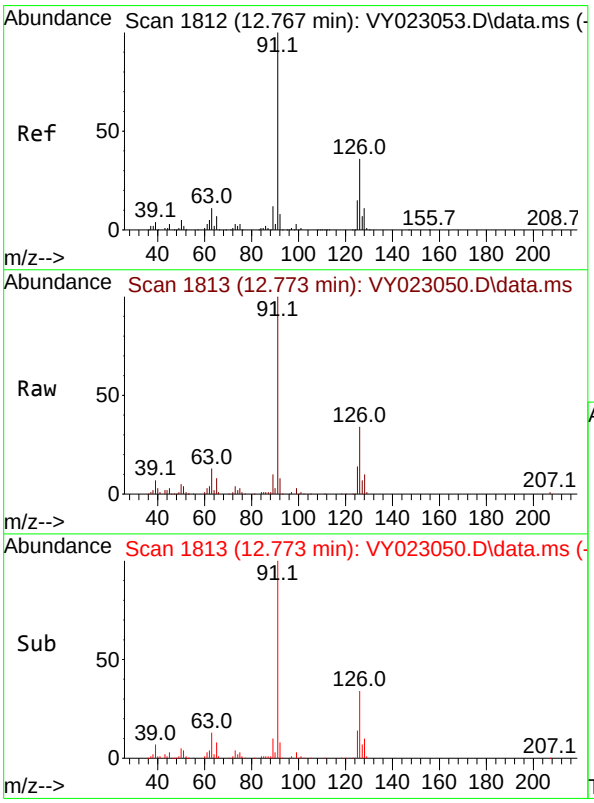
#81
trans-1,4-Dichloro-2-butene
Concen: 4.533 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 6514

Ion	Ratio	Lower	Upper
75	100		
53	101.3	70.8	106.2
89	51.7	38.1	57.1

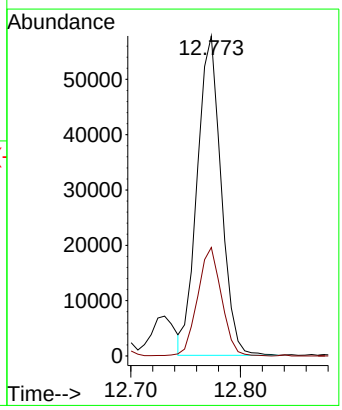


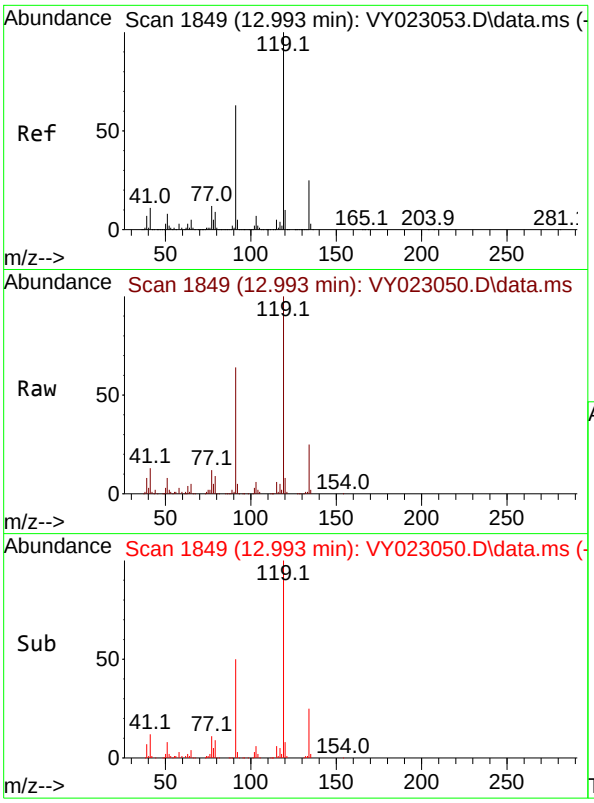


#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 87454

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.3	52.0



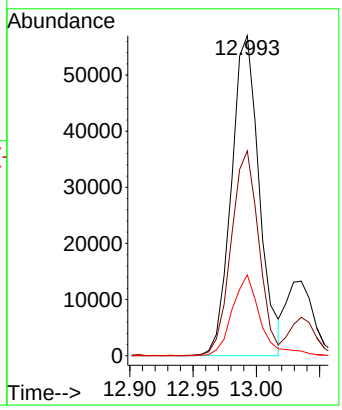


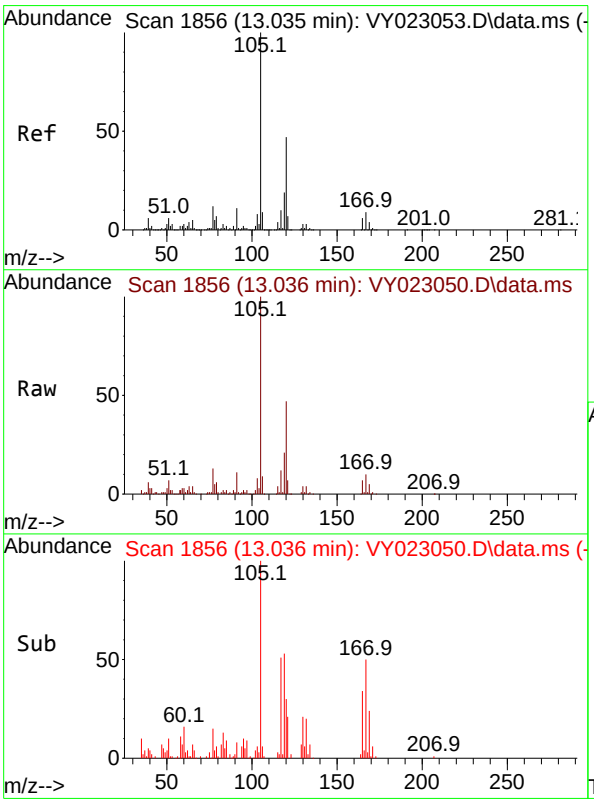
#83
tert-Butylbenzene
Concen: 4.712 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 87496

Ion	Ratio	Lower	Upper
119	100		
91	63.6	31.6	94.8
134	25.5	12.9	38.7

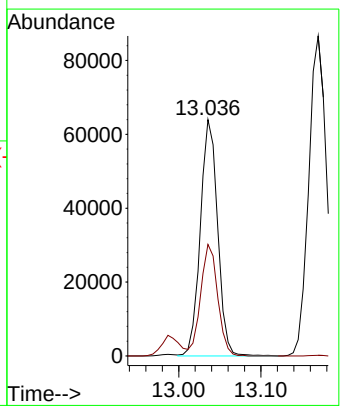


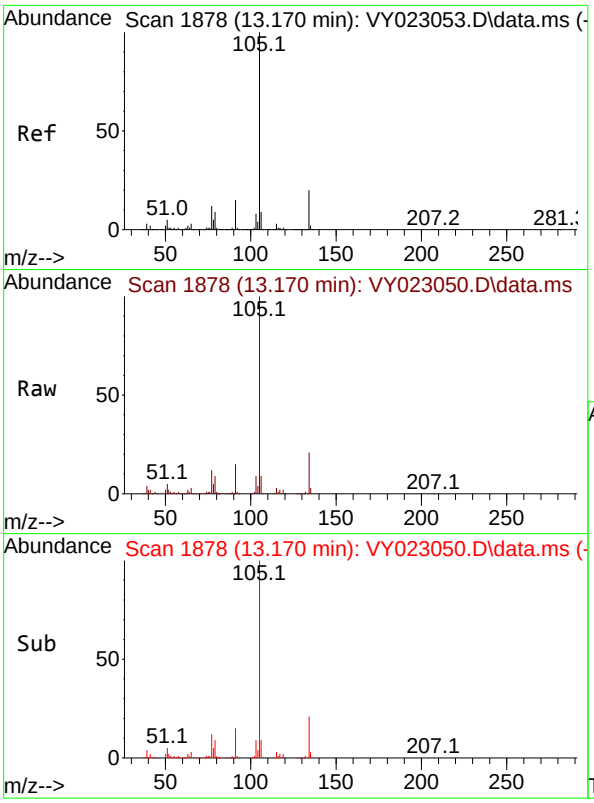


#84
1,2,4-Trimethylbenzene
Concen: 4.571 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 93551

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0



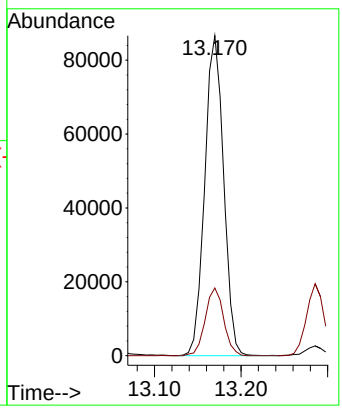


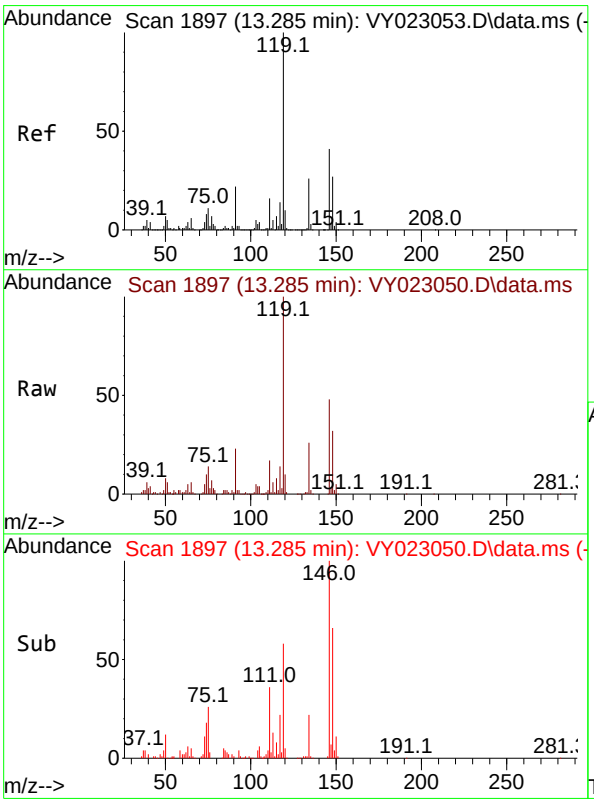
#85
sec-Butylbenzene
Concen: 4.806 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 131079

Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.2	30.4

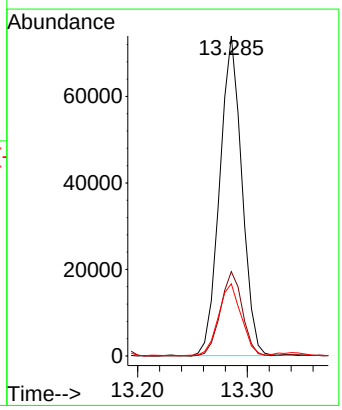


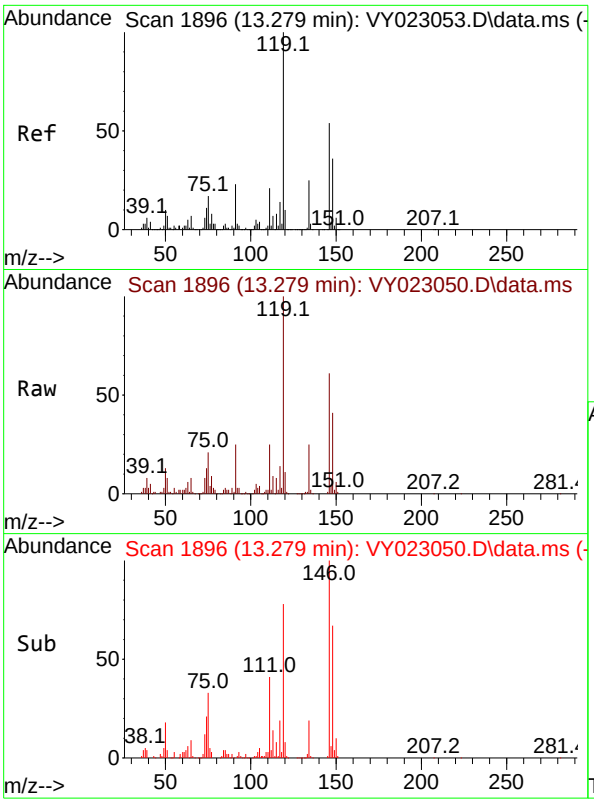


#86
p-Isopropyltoluene
Concen: 4.582 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:119 Resp: 103731

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	23.5	11.3	33.8



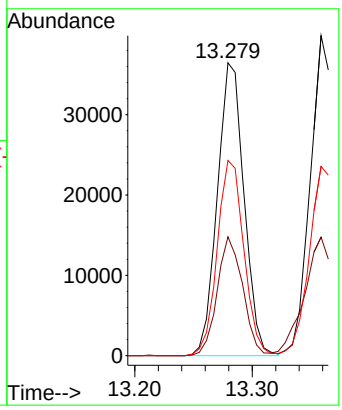


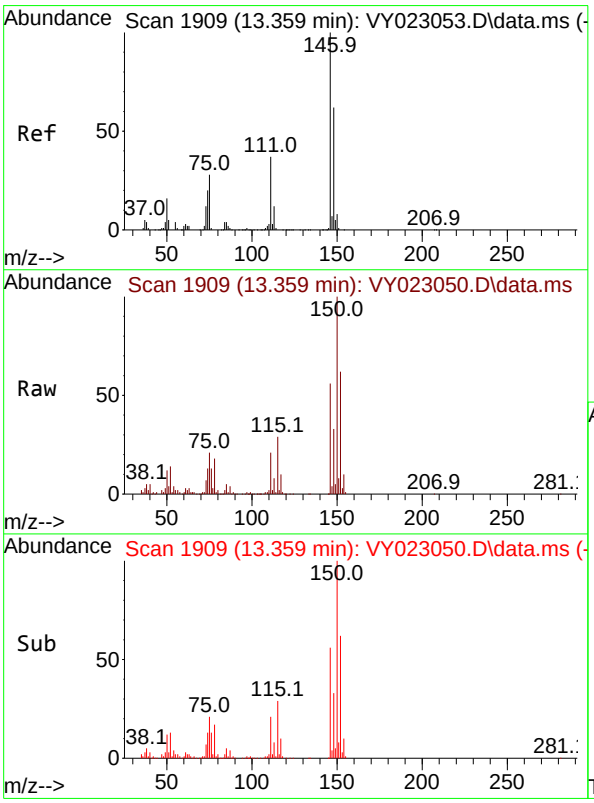
#87
1,3-Dichlorobenzene
Concen: 4.819 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 57668

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	66.5	32.5	97.5

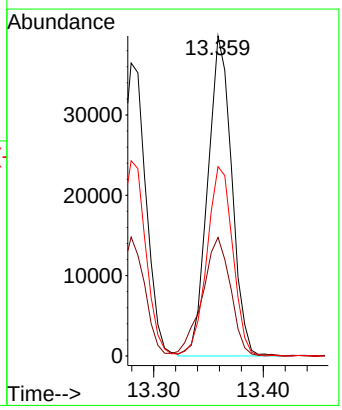


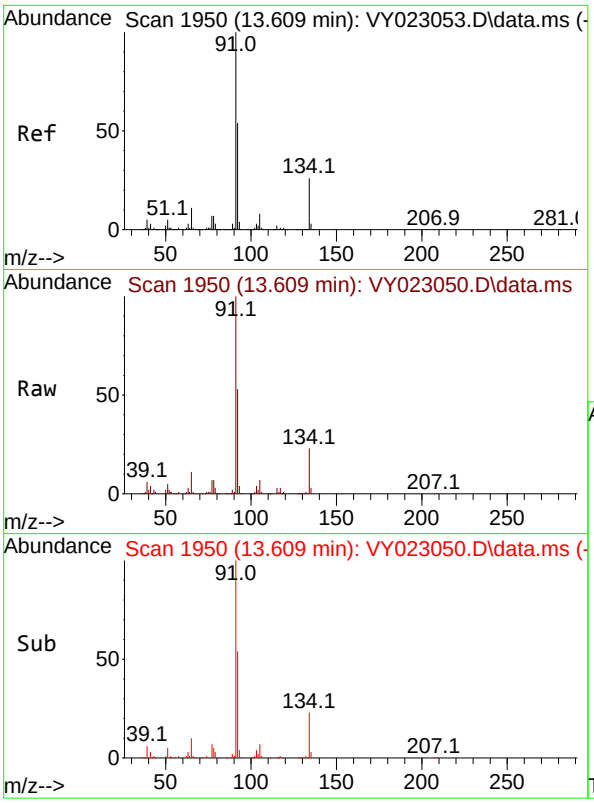


#88
1,4-Dichlorobenzene
Concen: 5.120 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 60781

Ion	Ratio	Lower	Upper
146	100		
111	42.8	19.1	57.1
148	63.6	31.6	94.7



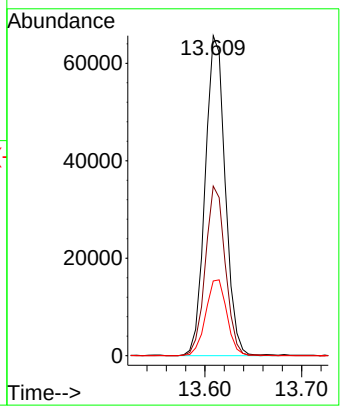


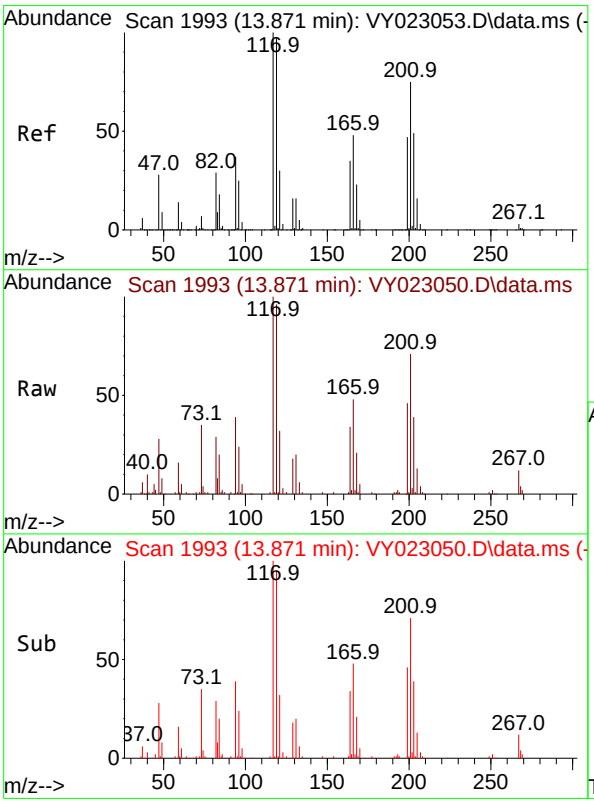
#89
n-Butylbenzene
Concen: 4.549 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 94594

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.9	80.7
134	25.1	13.2	39.5

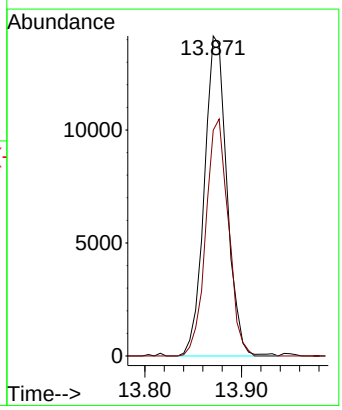


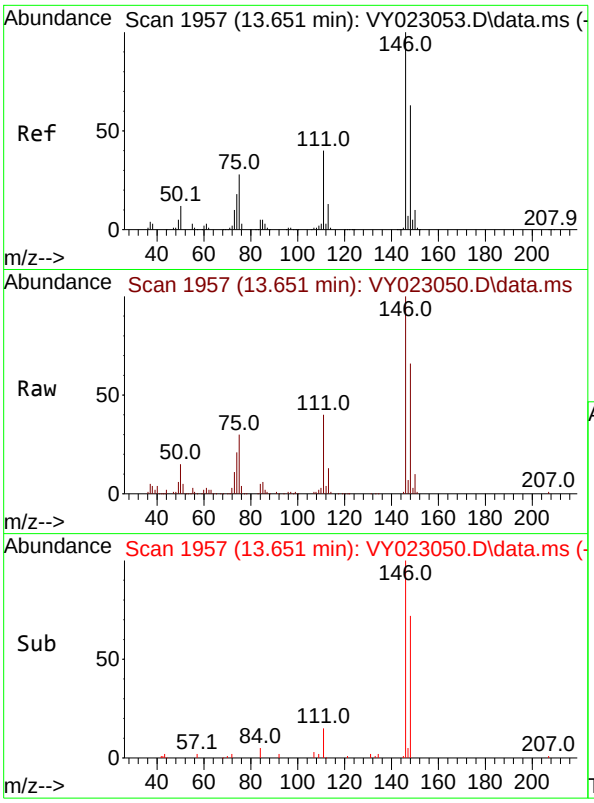


#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 22980

Ion	Ratio	Lower	Upper
117	100		
201	74.0	38.4	115.1



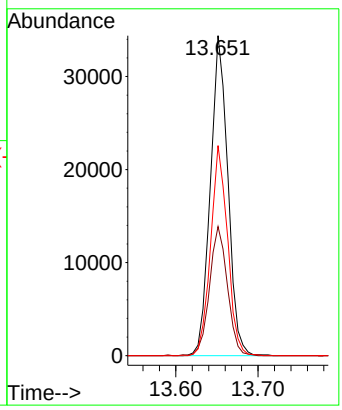


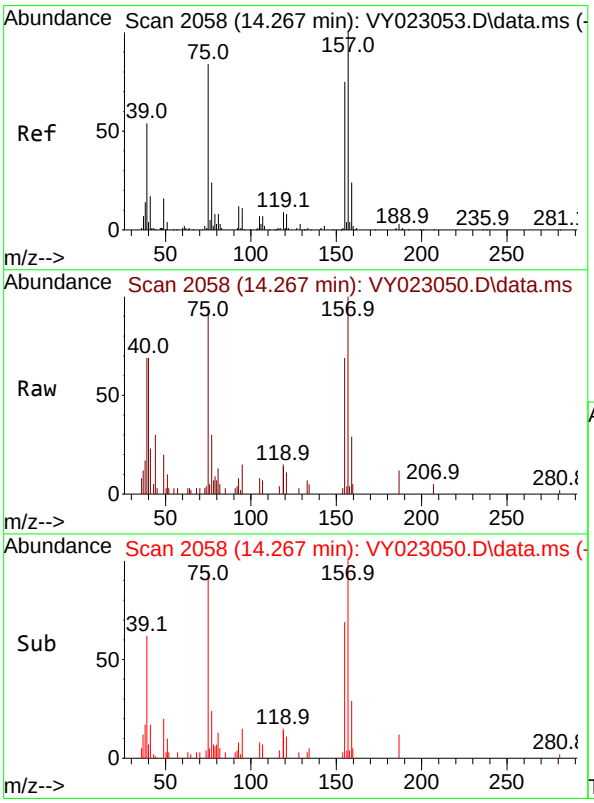
#91
1,2-Dichlorobenzene
Concen: 4.843 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 50829

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	60.8
148	63.6	32.2	96.6

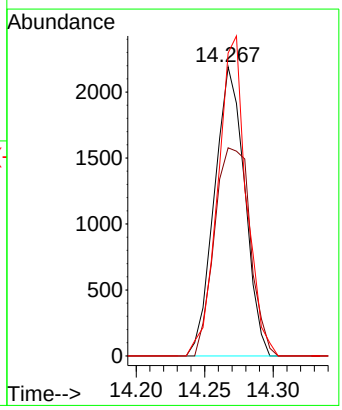


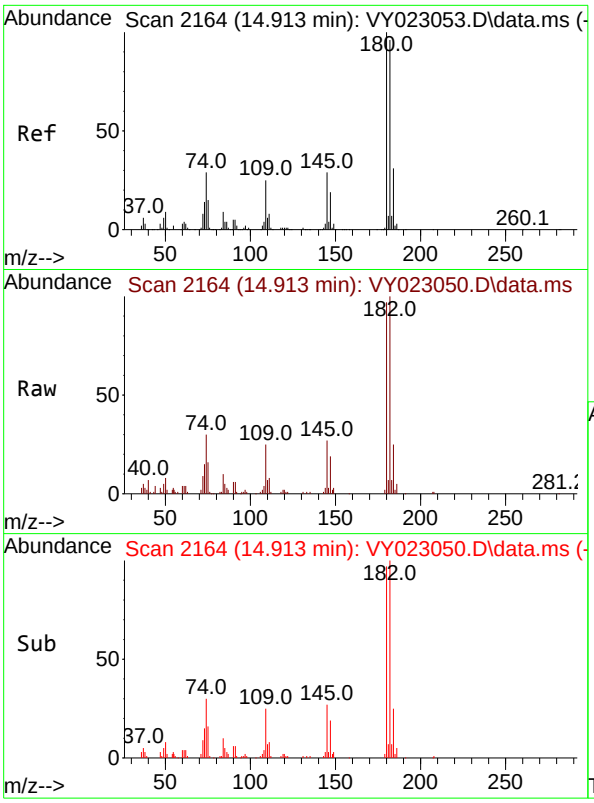


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 3369

Ion	Ratio	Lower	Upper
75	100		
155	85.3	43.9	131.6
157	103.8	57.2	171.6



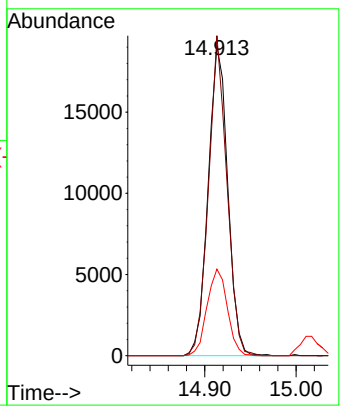


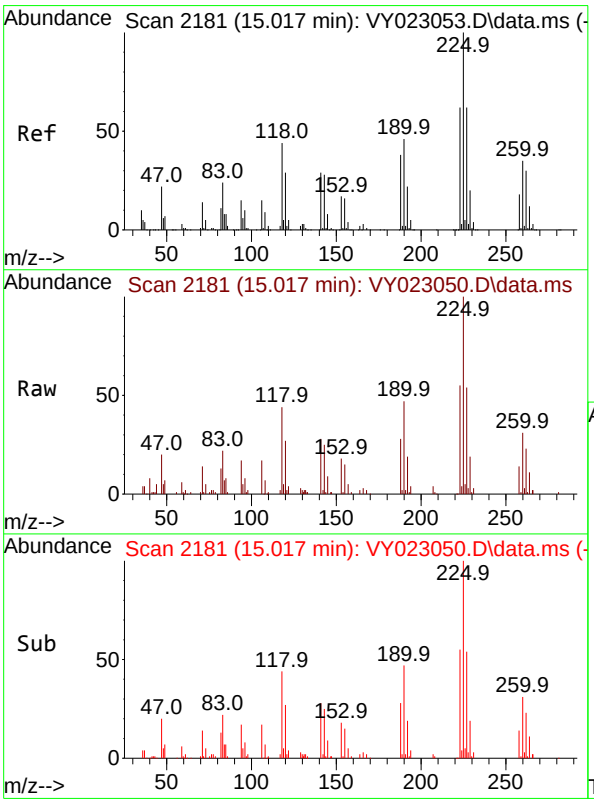
#93
1,2,4-Trichlorobenzene
Concen: 4.576 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 28399

Ion	Ratio	Lower	Upper
180	100		
182	96.6	46.8	140.4
145	28.9	14.4	43.4

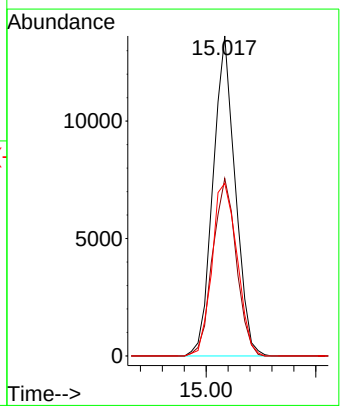


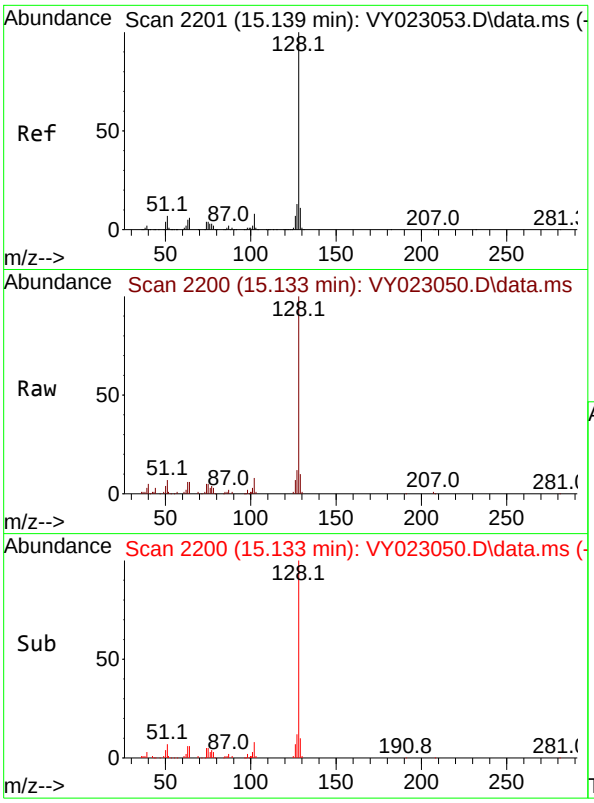


#94
Hexachlorobutadiene
Concen: 5.263 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:225 Resp: 19196

Ion	Ratio	Lower	Upper
225	100		
223	58.9	31.3	93.8
227	61.0	31.5	94.5



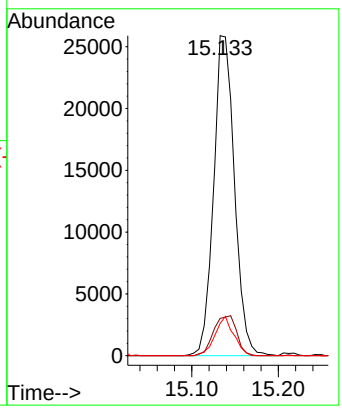


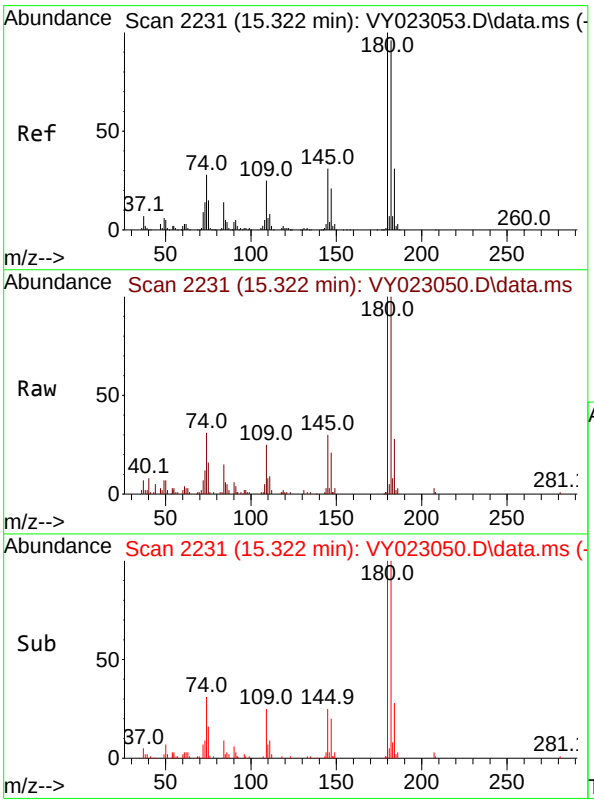
#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 43395

Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.4	15.6
129	10.9	9.0	13.4

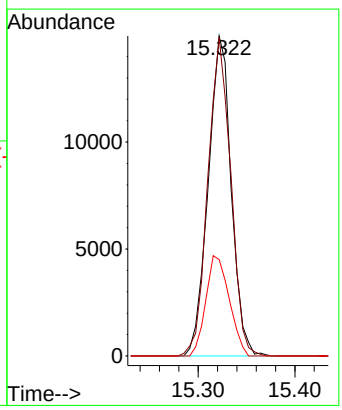




#96
1,2,3-Trichlorobenzene
Concen: 4.619 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 24703

Ion	Ratio	Lower	Upper
180	100		
182	98.4	47.9	143.7
145	31.9	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	551522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	883548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	761327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	365647	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	54002	10.274	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.540%#		
35) Dibromofluoromethane	7.628	113	52916	10.009	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.020%#		
50) Toluene-d8	10.103	98	204532	9.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.800%#		
62) 4-Bromofluorobenzene	12.401	95	64927	9.775	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.540%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	51022	11.334	ug/l	95
3) Chloromethane	2.068	50	77982	10.695	ug/l	97
4) Vinyl Chloride	2.202	62	95983	10.649	ug/l	99
5) Bromomethane	2.592	94	70415	10.461	ug/l	99
6) Chloroethane	2.732	64	62514	10.432	ug/l	97
7) Trichlorofluoromethane	3.049	101	115150	10.507	ug/l	94
8) Diethyl Ether	3.452	74	30390	10.481	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	57210	10.581	ug/l	100
10) Methyl Iodide	4.001	142	54184	9.287	ug/l	99
11) Tert butyl alcohol	4.866	59	20212	56.119	ug/l	99
12) 1,1-Dichloroethene	3.781	96	55669	10.475	ug/l	92
13) Acrolein	3.647	56	30081	57.030	ug/l	97
14) Allyl chloride	4.372	41	79145	10.121	ug/l	98
15) Acrylonitrile	5.049	53	62889	53.349	ug/l	99
16) Acetone	3.873	43	61290	53.821	ug/l	94
17) Carbon Disulfide	4.098	76	183399	10.583	ug/l	98
18) Methyl Acetate	4.385	43	33996	10.032	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	139820	10.153	ug/l	95
20) Methylene Chloride	4.604	84	77920	11.095	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	61826	10.352	ug/l	100
22) Diisopropyl ether	6.012	45	172602	10.157	ug/l	93
23) Vinyl Acetate	5.957	43	482714	51.372	ug/l	98
24) 1,1-Dichloroethane	5.903	63	106831	10.282	ug/l	99
25) 2-Butanone	6.896	43	83923	54.187	ug/l	96
26) 2,2-Dichloropropane	6.878	77	91579	10.215	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	68839	9.970	ug/l	99
28) Bromochloromethane	7.238	49	41820	10.146	ug/l	100
29) Tetrahydrofuran	7.262	42	49926	52.005	ug/l	99
30) Chloroform	7.415	83	109942	10.260	ug/l	93
31) Cyclohexane	7.701	56	103068	10.527	ug/l #	89
32) 1,1,1-Trichloroethane	7.616	97	96693	10.170	ug/l	98
36) 1,1-Dichloropropene	7.829	75	80479	10.243	ug/l	99
37) Ethyl Acetate	6.982	43	34854	10.560	ug/l	97
38) Carbon Tetrachloride	7.811	117	85932	10.070	ug/l	97
39) Methylcyclohexane	9.103	83	102275	9.885	ug/l	99
40) Benzene	8.073	78	243060	10.037	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	18825	9.872	ug/l	#	89
42) 1,2-Dichloroethane	8.152	62	65350	10.376	ug/l		99
43) Isopropyl Acetate	8.195	43	67669	10.144	ug/l		99
44) Trichloroethene	8.859	130	62689	10.017	ug/l		98
45) 1,2-Dichloropropane	9.134	63	56720	10.179	ug/l		97
46) Dibromomethane	9.225	93	33460	10.462	ug/l		98
47) Bromodichloromethane	9.420	83	81951	9.959	ug/l		97
48) Methyl methacrylate	9.213	41	31851	9.978	ug/l		96
49) 1,4-Dioxane	9.231	88	7705	205.471	ug/l		94
51) 4-Methyl-2-Pentanone	9.993	43	177157	51.484	ug/l		98
52) Toluene	10.164	92	150422	9.780	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	72507	9.730	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	85945	9.753	ug/l		100
55) 1,1,2-Trichloroethane	10.566	97	42712	9.981	ug/l		97
56) Ethyl methacrylate	10.432	69	52746	9.632	ug/l		98
57) 1,3-Dichloropropane	10.713	76	74433	10.256	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	119417	46.232	ug/l		98
59) 2-Hexanone	10.755	43	118452	50.553	ug/l		99
60) Dibromochloromethane	10.902	129	56045	9.925	ug/l		99
61) 1,2-Dibromoethane	11.011	107	41009	10.196	ug/l		99
64) Tetrachloroethene	10.640	164	70502	10.371	ug/l		98
65) Chlorobenzene	11.438	112	162985	9.925	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	54856	9.842	ug/l		97
67) Ethyl Benzene	11.511	91	273281	9.670	ug/l		99
68) m/p-Xylenes	11.621	106	212766	19.277	ug/l		99
69) o-Xylene	11.950	106	97841	9.465	ug/l		98
70) Styrene	11.963	104	155809	9.216	ug/l		99
71) Bromoform	12.127	173	32470	9.968	ug/l	#	97
73) Isopropylbenzene	12.249	105	254745	9.871	ug/l		99
74) N-amyl acetate	12.066	43	53943	9.857	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	47304	10.735	ug/l		99
76) 1,2,3-Trichloropropane	12.548	75	61290	17.357	ug/l	#	100
77) Bromobenzene	12.523	156	60728	9.864	ug/l		96
78) n-propylbenzene	12.590	91	303440	9.876	ug/l		100
79) 2-Chlorotoluene	12.676	91	175364	9.962	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	205544	9.855	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	15715	10.780	ug/l		96
82) 4-Chlorotoluene	12.767	91	181812	9.956	ug/l		99
83) tert-Butylbenzene	12.993	119	181408	9.630	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	201812	9.720	ug/l		100
85) sec-Butylbenzene	13.170	105	274178	9.908	ug/l		99
86) p-Isopropyltoluene	13.285	119	217799	9.482	ug/l		98
87) 1,3-Dichlorobenzene	13.279	146	120109	9.893	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	121160	10.060	ug/l		97
89) n-Butylbenzene	13.609	91	205420	9.737	ug/l		98
90) Hexachloroethane	13.871	117	47353	10.071	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	107656	10.110	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7032	10.250	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	61323	9.739	ug/l		99
94) Hexachlorobutadiene	15.017	225	37011	10.003	ug/l		99
95) Naphthalene	15.139	128	99780	9.293	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	53626	9.883	ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

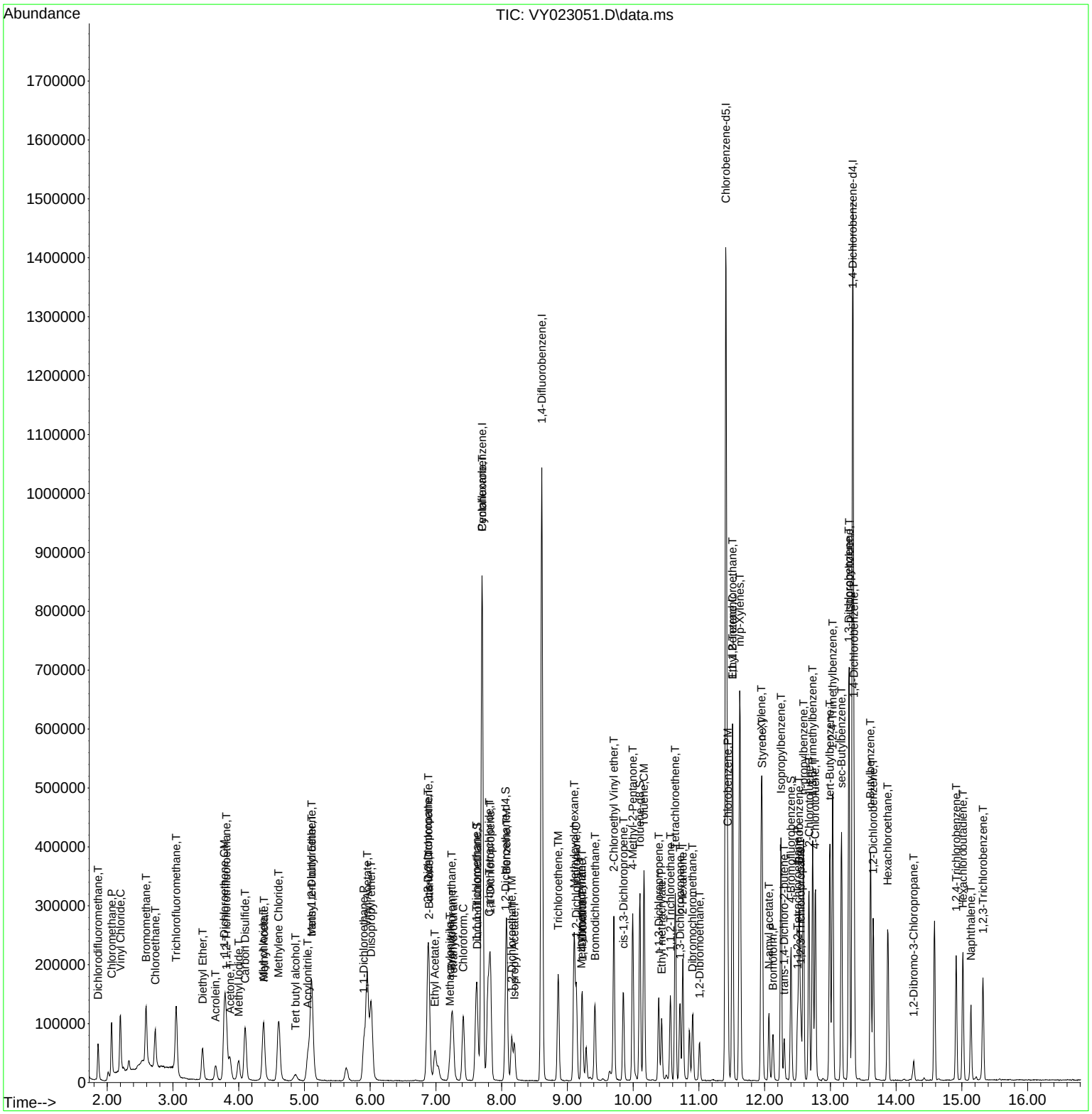
(#) = qualifier out of range (m) = manual integration (+) = signals summed

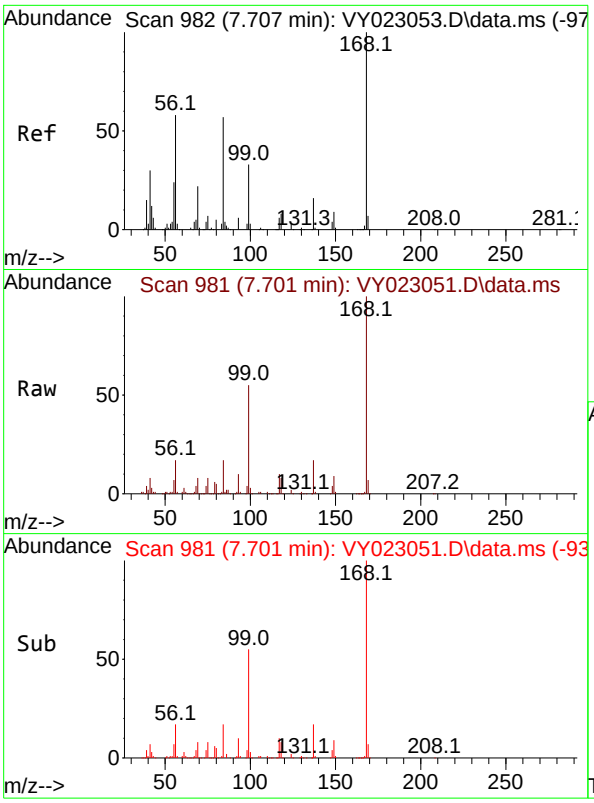
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



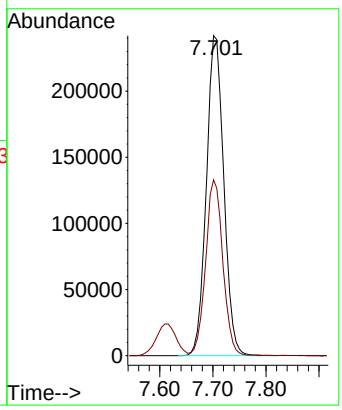


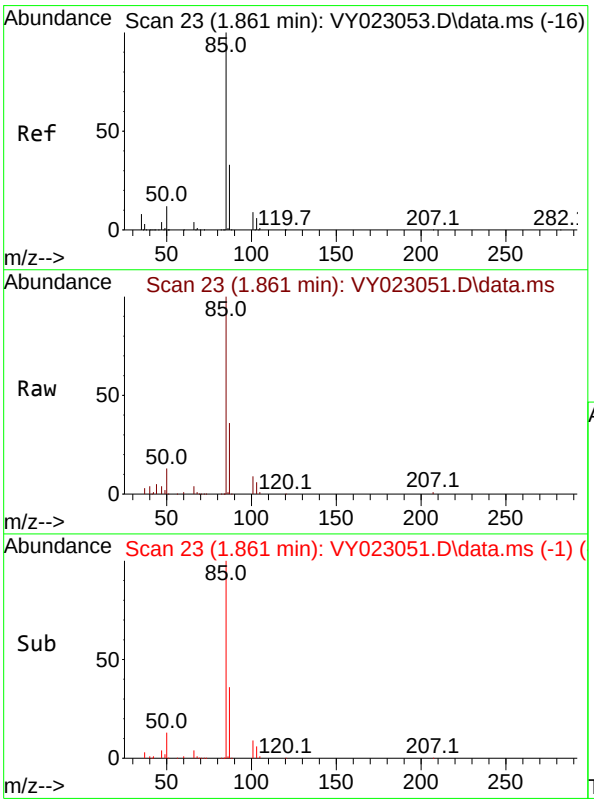
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 551522

Ion	Ratio	Lower	Upper
168	100		
99	54.9	42.8	64.2

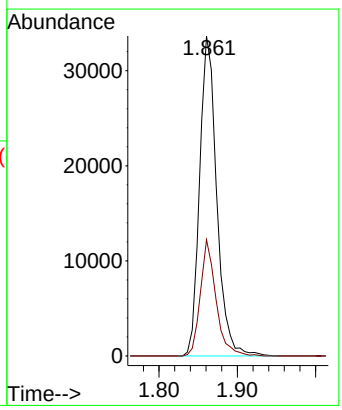


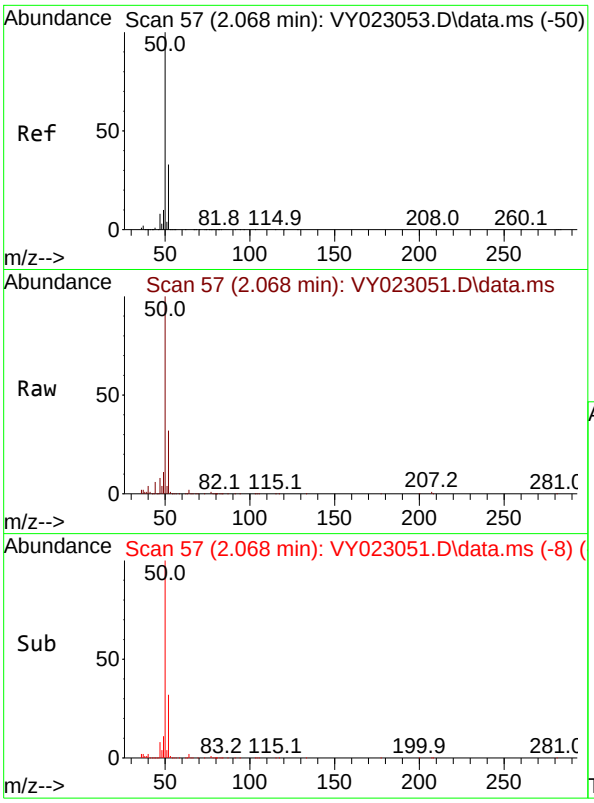


#2
Dichlorodifluoromethane
Concen: 11.334 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 85 Resp: 51022

Ion	Ratio	Lower	Upper
85	100		
87	36.3	16.6	49.8



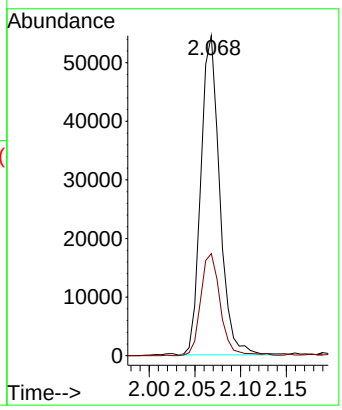


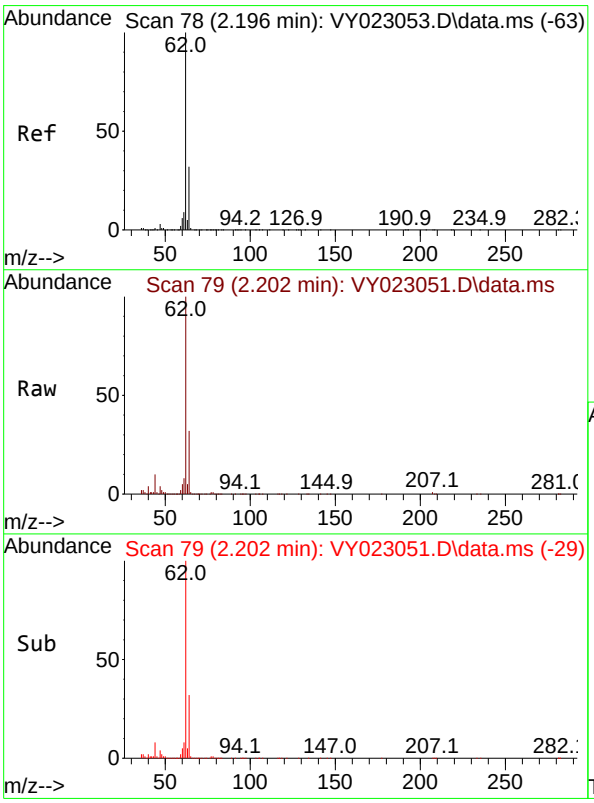
#3
Chloromethane
Concen: 10.695 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 77982

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1

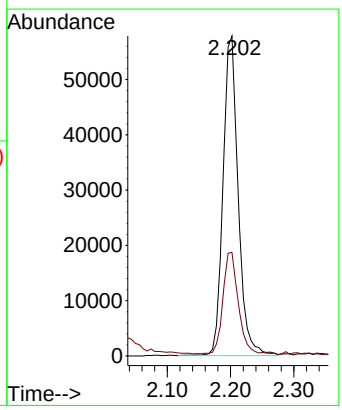


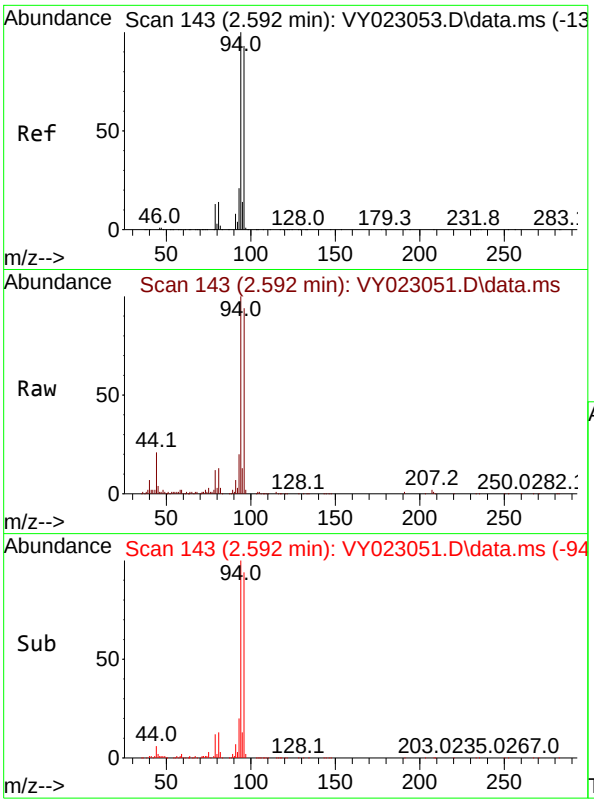


#4
Vinyl Chloride
Concen: 10.649 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 95983

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.4	38.0



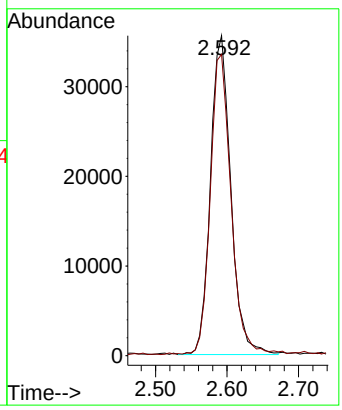


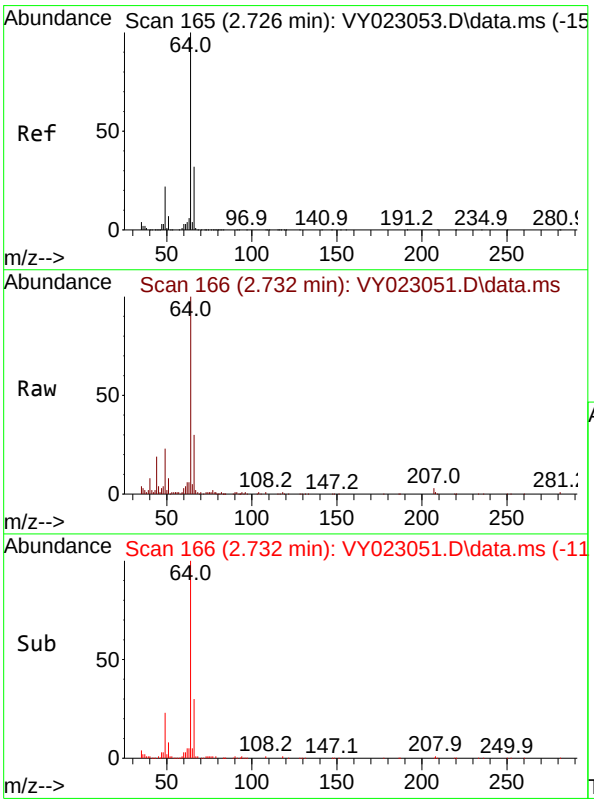
#5
Bromomethane
Concen: 10.461 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 70415

Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.6	112.0

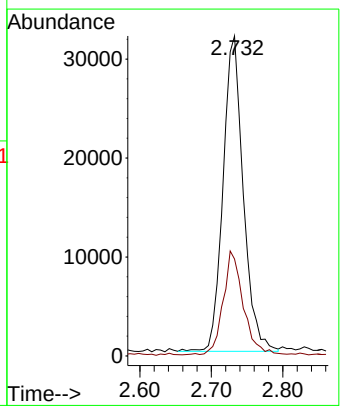


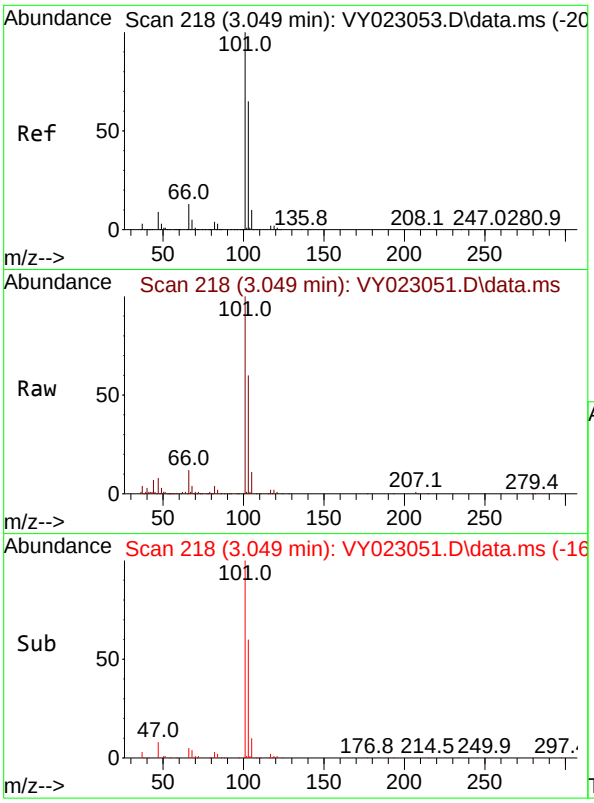


#6
Chloroethane
Concen: 10.432 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 64 Resp: 62514

Ion	Ratio	Lower	Upper
64	100		
66	30.4	25.8	38.6



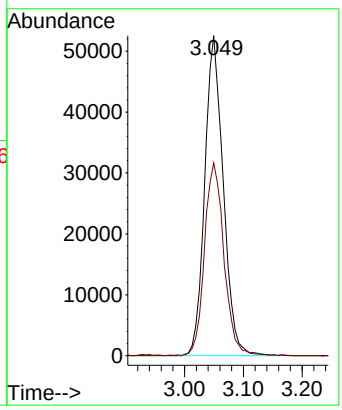


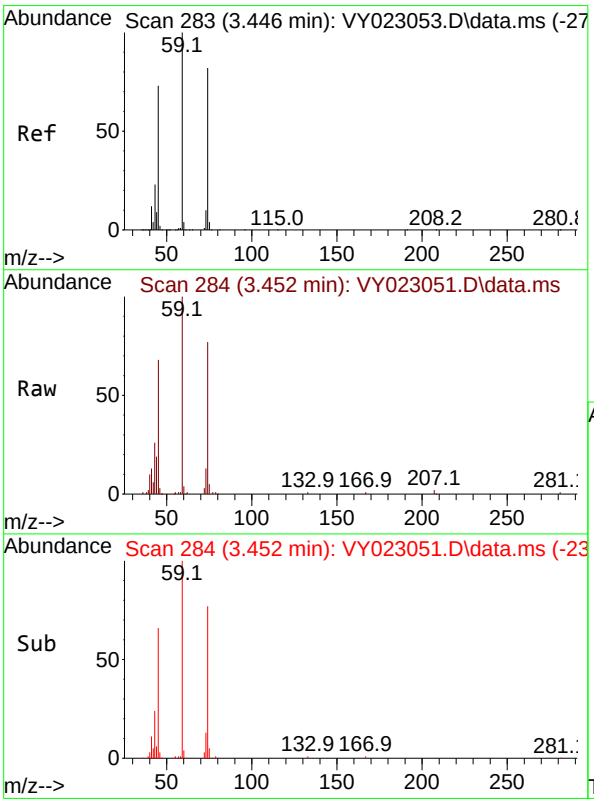
#7
Trichlorofluoromethane
Concen: 10.507 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 115150

Ion	Ratio	Lower	Upper
101	100		
103	60.1	51.9	77.9

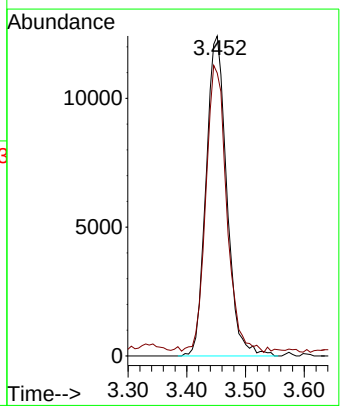


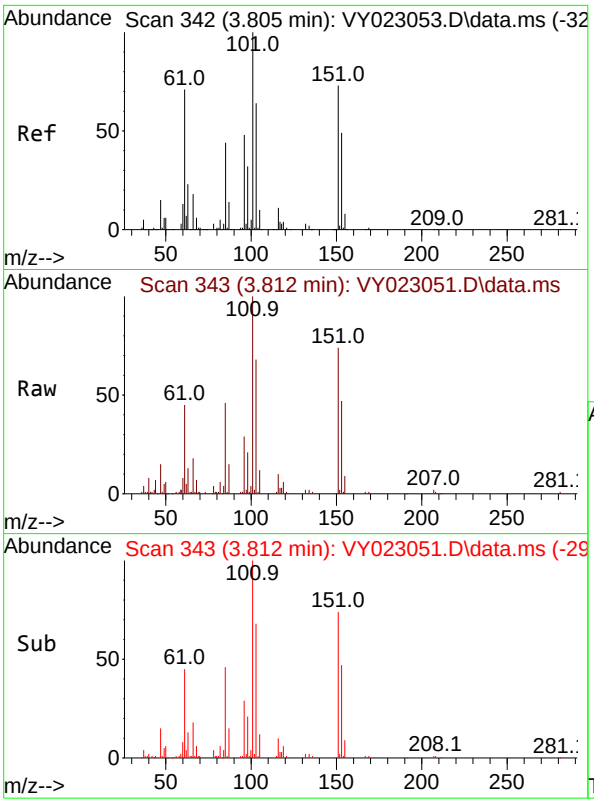


#8
Diethyl Ether
Concen: 10.481 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 74 Resp: 30390

Ion	Ratio	Lower	Upper
74	100		
45	90.2	44.4	133.2



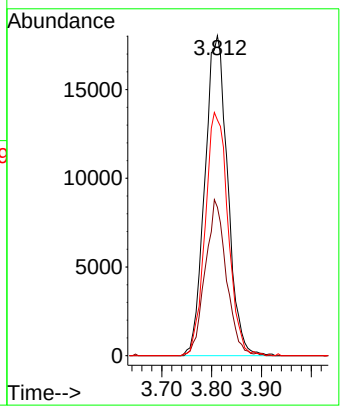


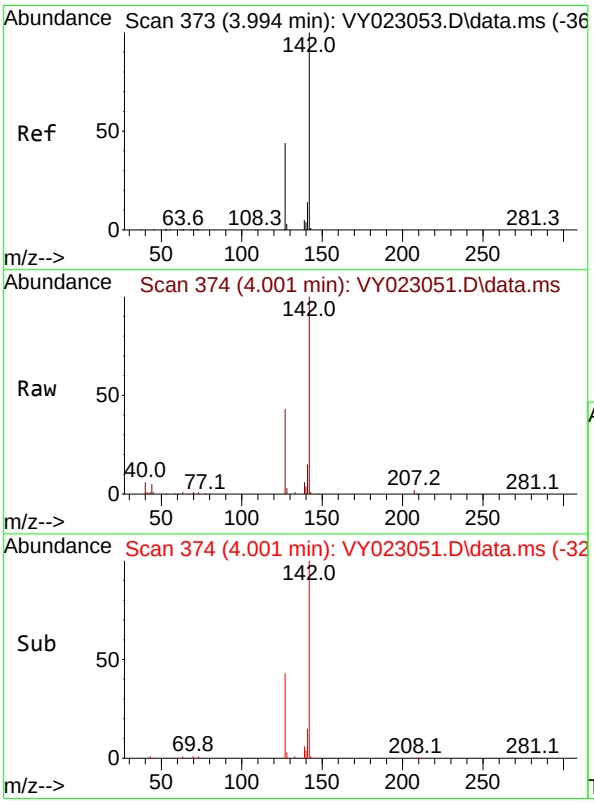
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.581 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 57210

Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.3	54.5
151	76.3	61.5	92.3

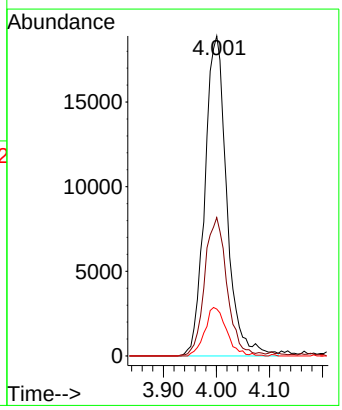


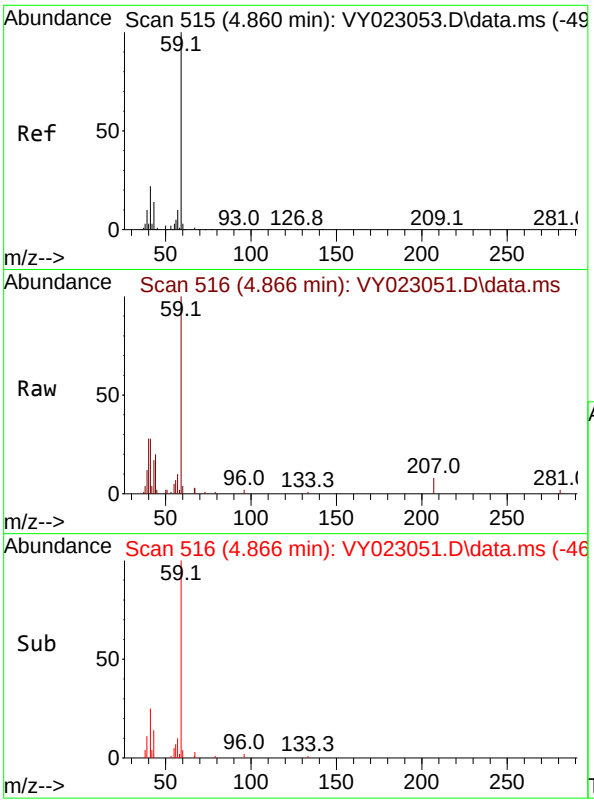


#10
Methyl Iodide
Concen: 9.287 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:142 Resp: 54184

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.9	52.3
141	14.9	11.3	16.9



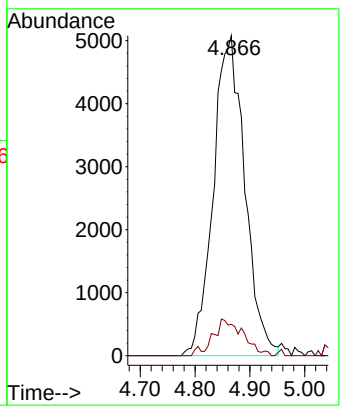


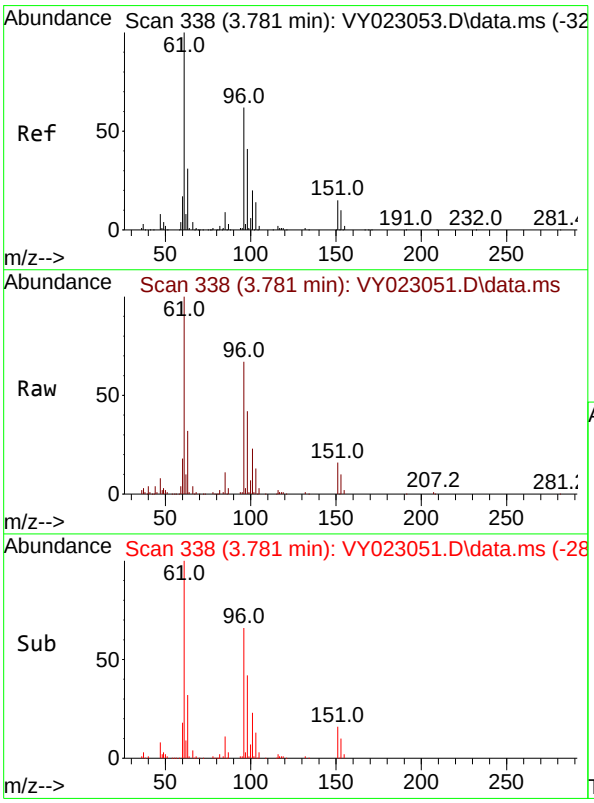
#11
Tert butyl alcohol
Concen: 56.119 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 20212

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.6	13.0

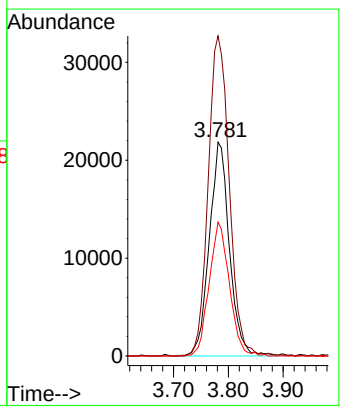


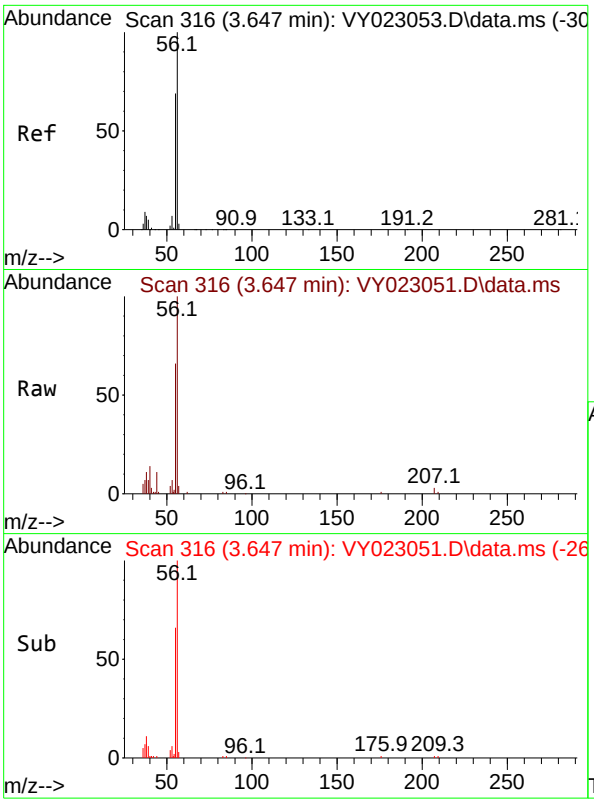


#12
1,1-Dichloroethene
Concen: 10.475 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 55669

Ion	Ratio	Lower	Upper
96	100		
61	149.7	129.4	194.2
98	62.6	52.8	79.2



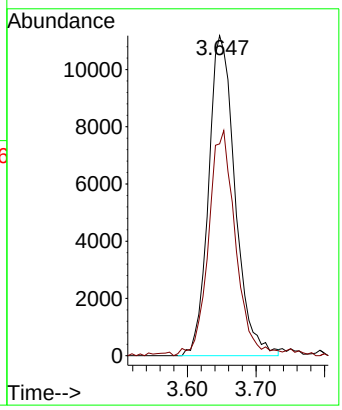


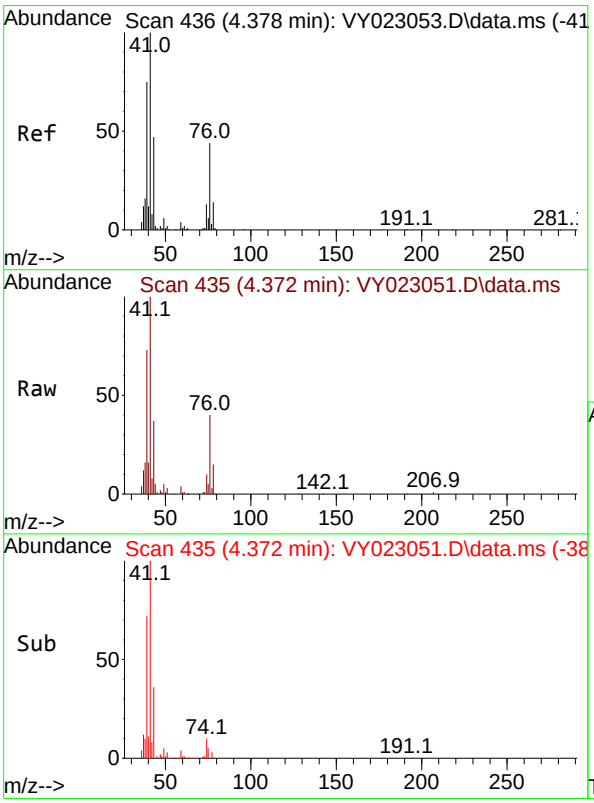
#13
Acrolein
Concen: 57.030 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 30081

Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.2	82.8

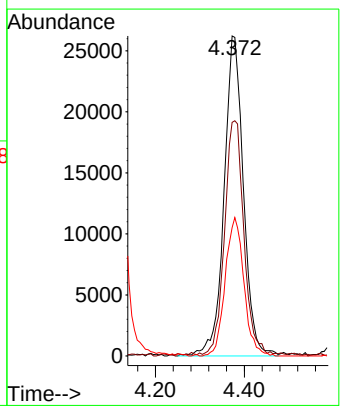


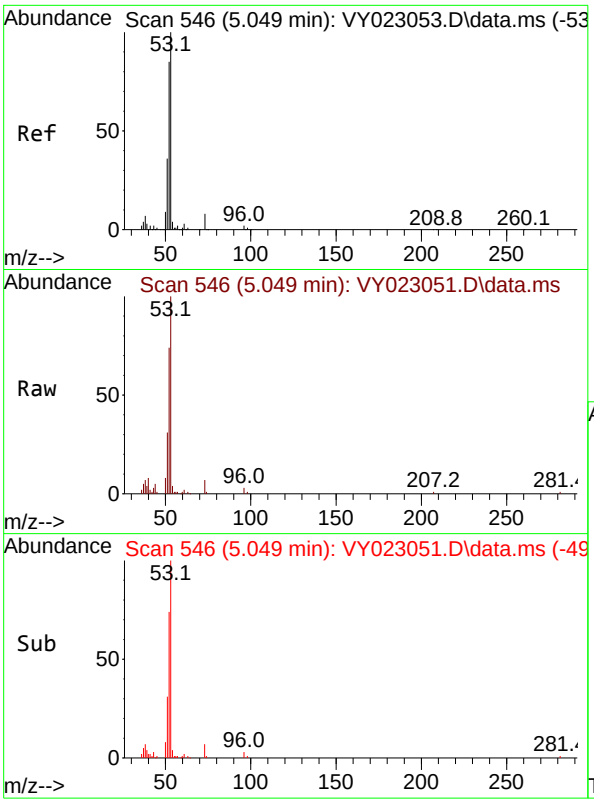


#14
Allyl chloride
Concen: 10.121 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 79145

Ion	Ratio	Lower	Upper
41	100		
39	72.7	59.8	89.6
76	41.9	33.7	50.5



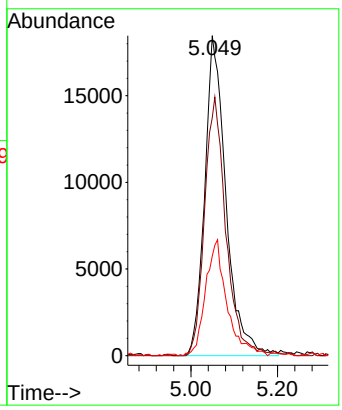


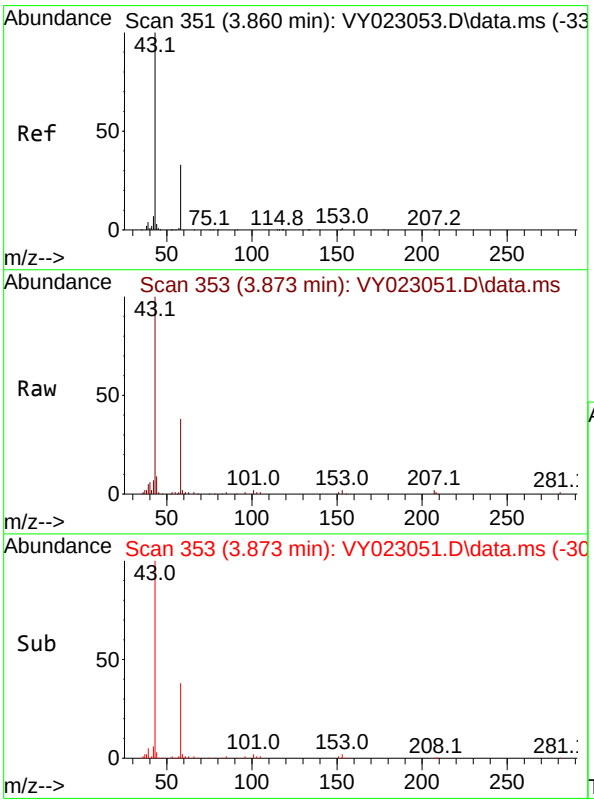
#15
Acrylonitrile
Concen: 53.349 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 62889

Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.3	97.9
51	36.5	29.5	44.3

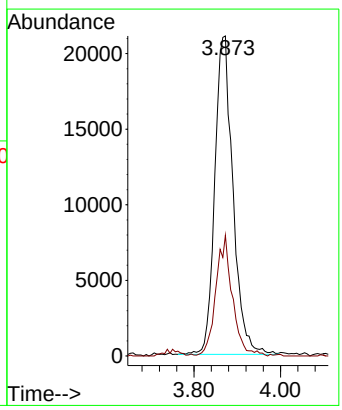


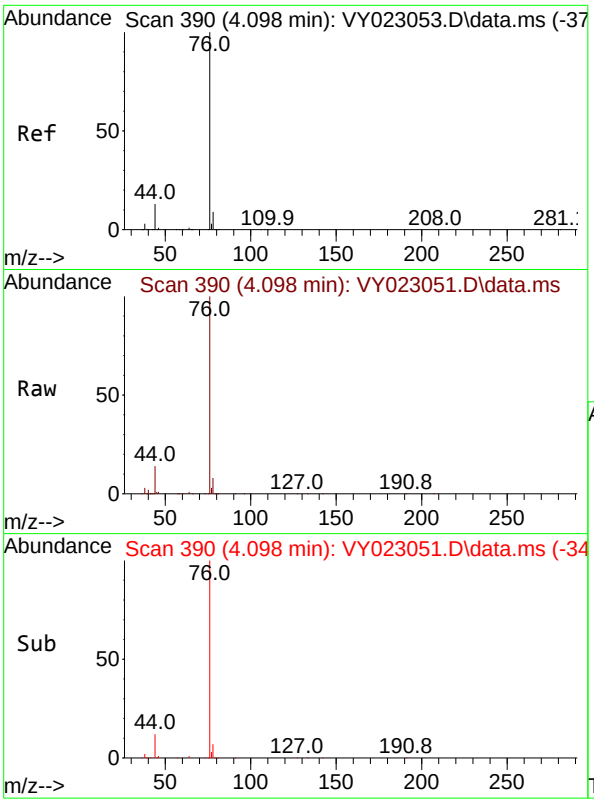


#16
Acetone
Concen: 53.821 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 61290

Ion	Ratio	Lower	Upper
43	100		
58	37.4	27.1	40.7



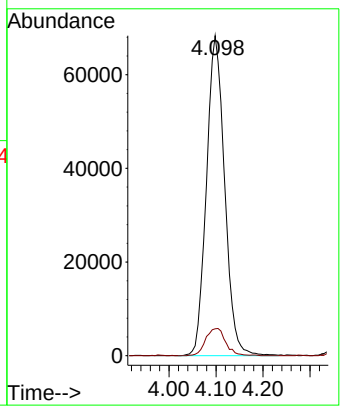


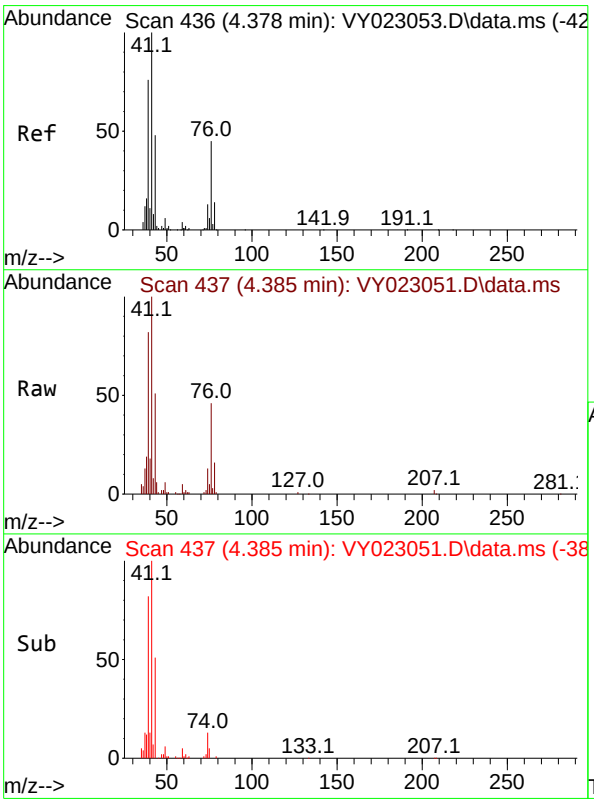
#17
Carbon Disulfide
Concen: 10.583 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 183399

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.2

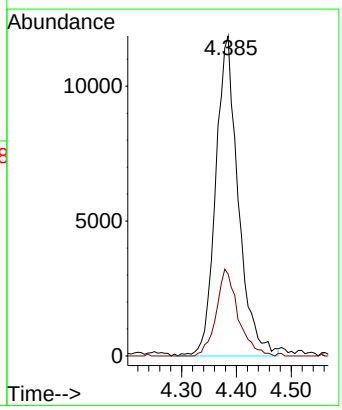


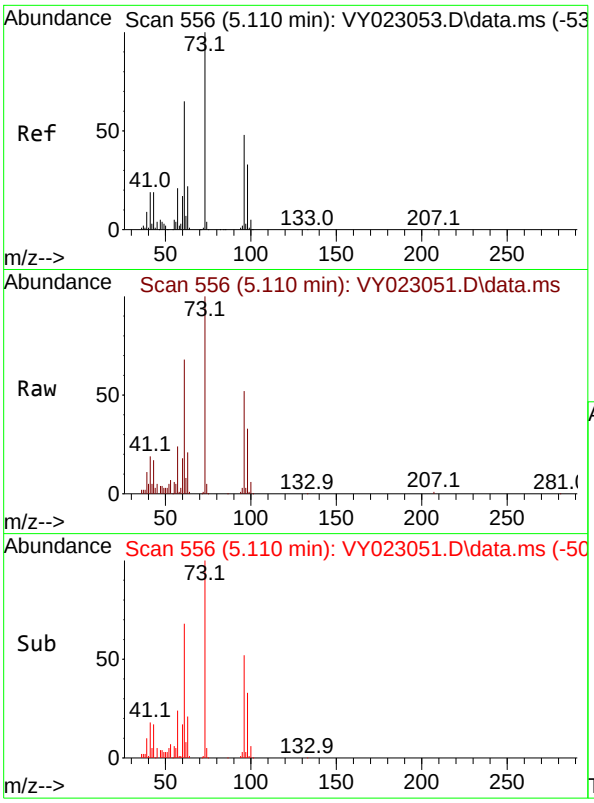


#18
Methyl Acetate
Concen: 10.032 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 33996

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.2	31.8



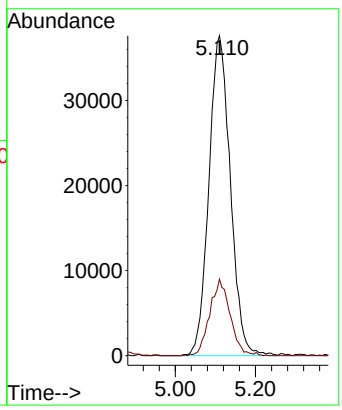


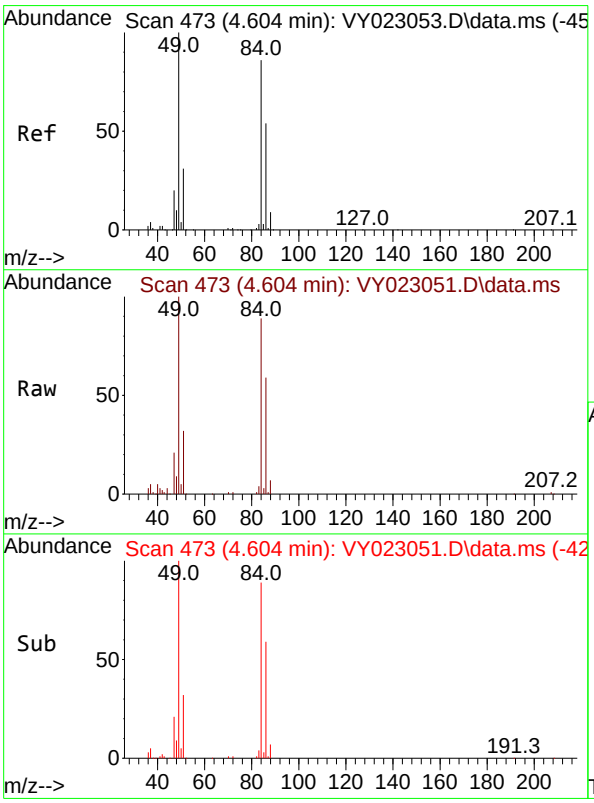
#19
Methyl tert-butyl Ether
Concen: 10.153 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 139820

Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.1	25.7

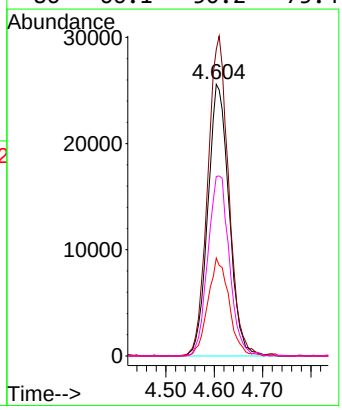


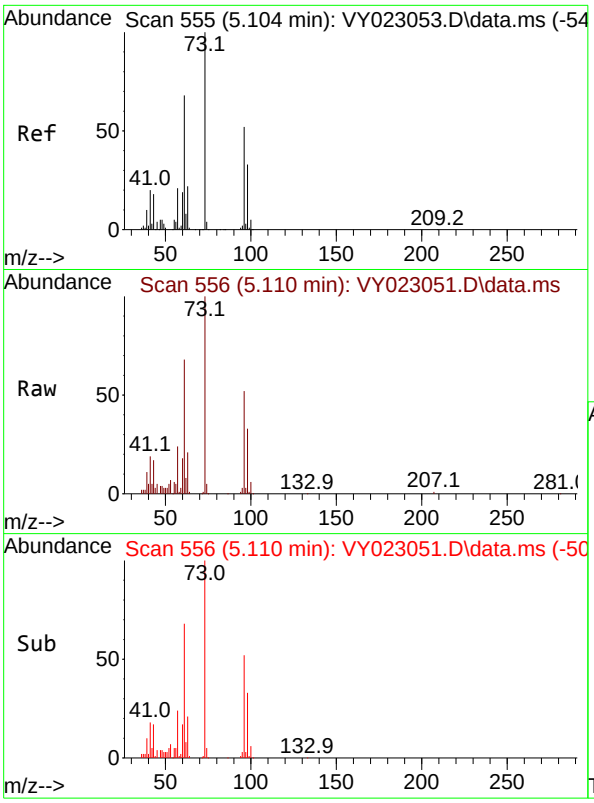


#20
Methylene Chloride
Concen: 11.095 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 84 Resp: 77920

Ion	Ratio	Lower	Upper
84	100		
49	112.8	93.0	139.6
51	36.1	29.0	43.4
86	66.1	50.2	75.4



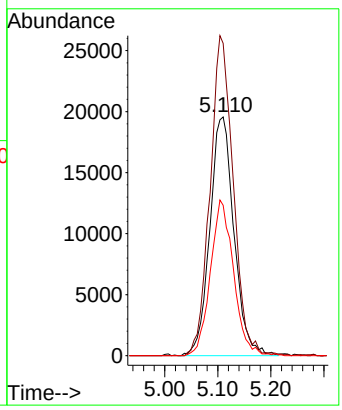


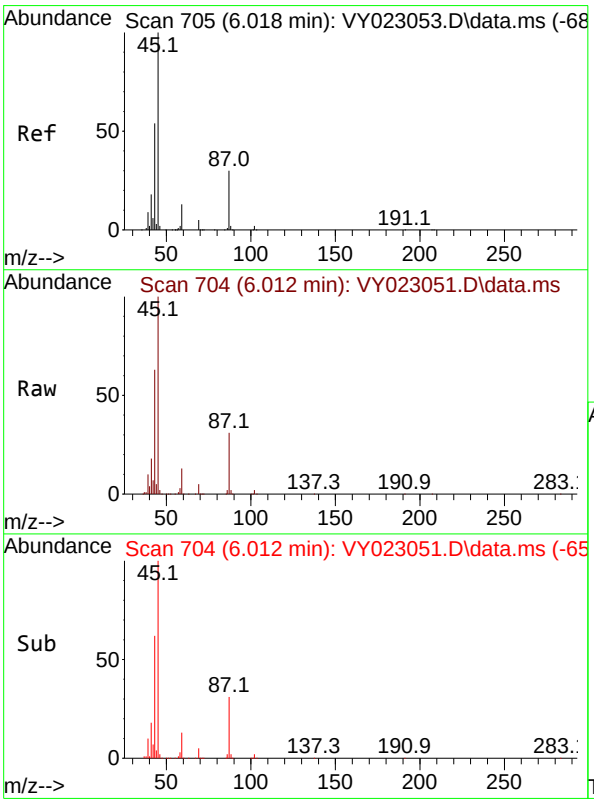
#21
trans-1,2-Dichloroethene
Concen: 10.352 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 61826

Ion	Ratio	Lower	Upper
96	100		
61	130.8	104.8	157.2
98	63.0	50.1	75.1

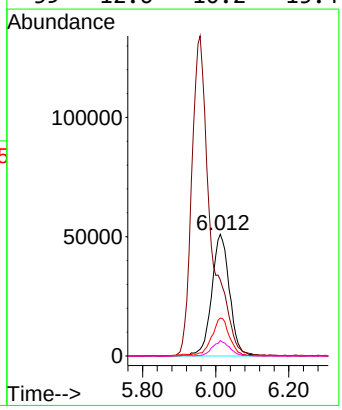


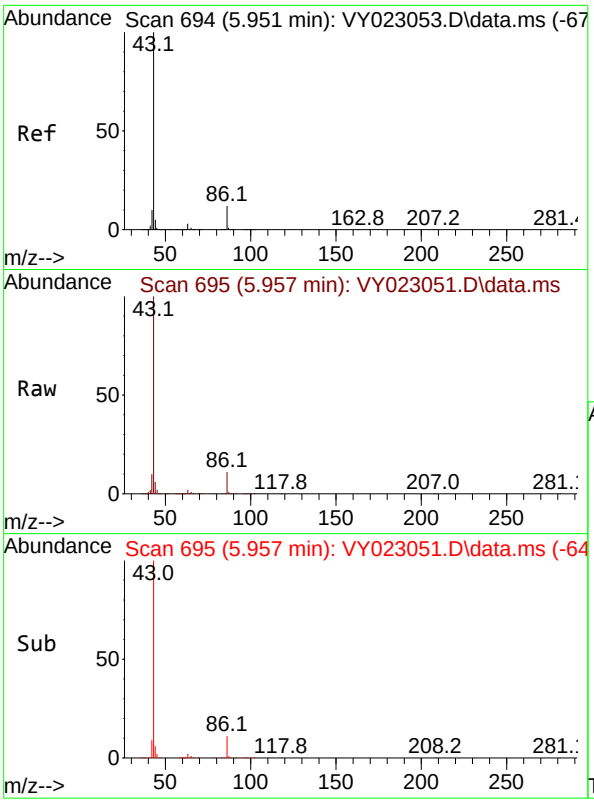


#22
Diisopropyl ether
Concen: 10.157 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 45 Resp: 172602

Ion	Ratio	Lower	Upper
45	100		
43	62.2	43.4	65.0
87	31.2	24.4	36.6
59	12.6	10.2	15.4



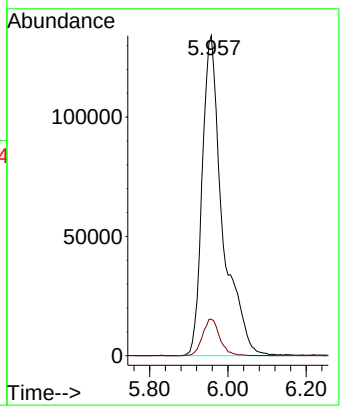


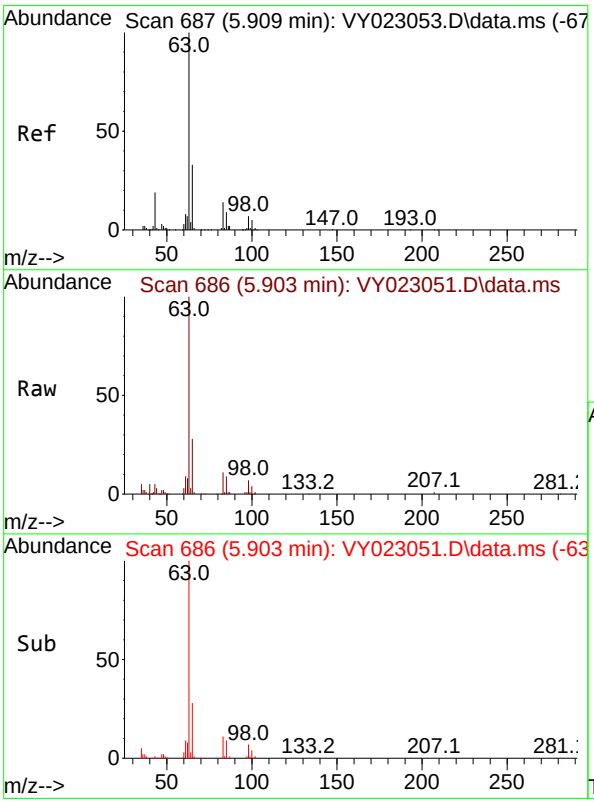
#23
Vinyl Acetate
Concen: 51.372 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 482714

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.6	14.4

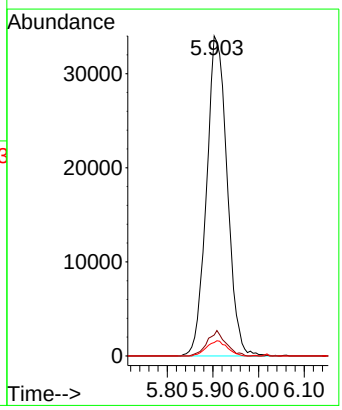


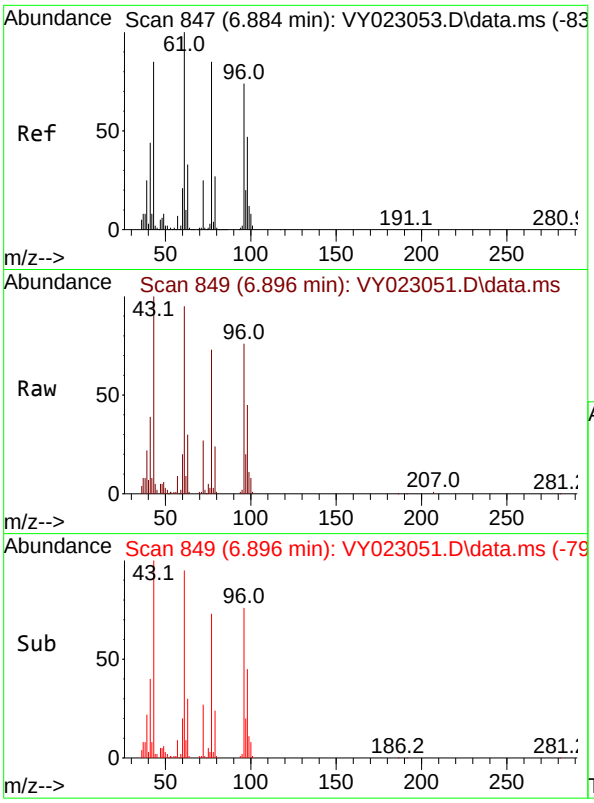


#24
1,1-Dichloroethane
Concen: 10.282 ug/l
RT: 5.903 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 106831

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.6
100	4.2	2.4	7.1



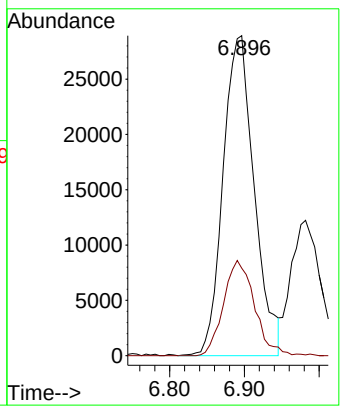


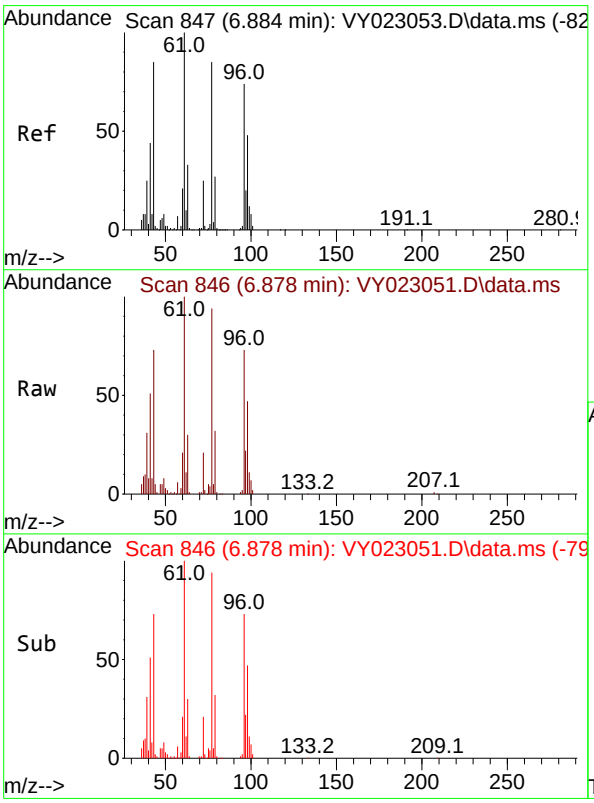
#25
2-Butanone
Concen: 54.187 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 83923

Ion	Ratio	Lower	Upper
43	100		
72	27.3	23.5	35.3

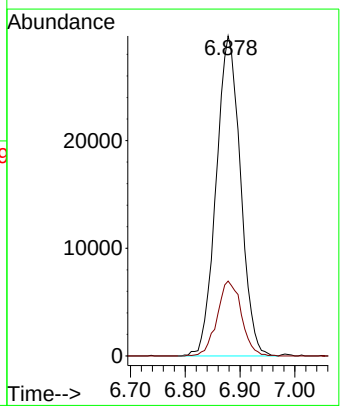


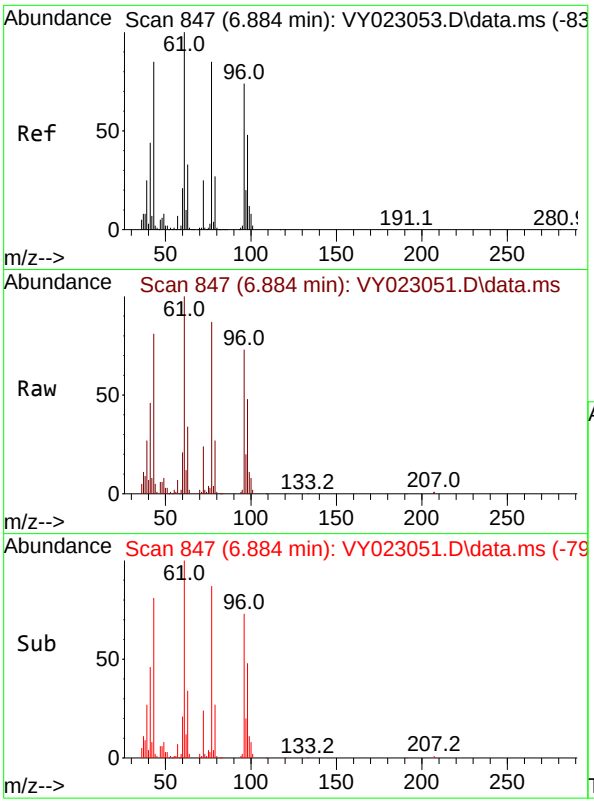


#26
2,2-Dichloropropane
Concen: 10.215 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 77 Resp: 91579

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8



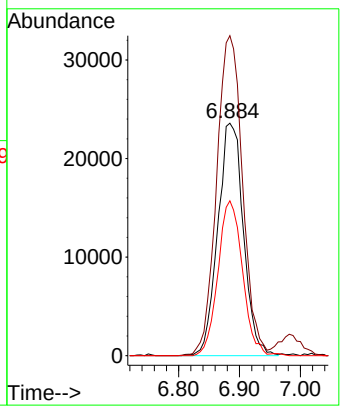


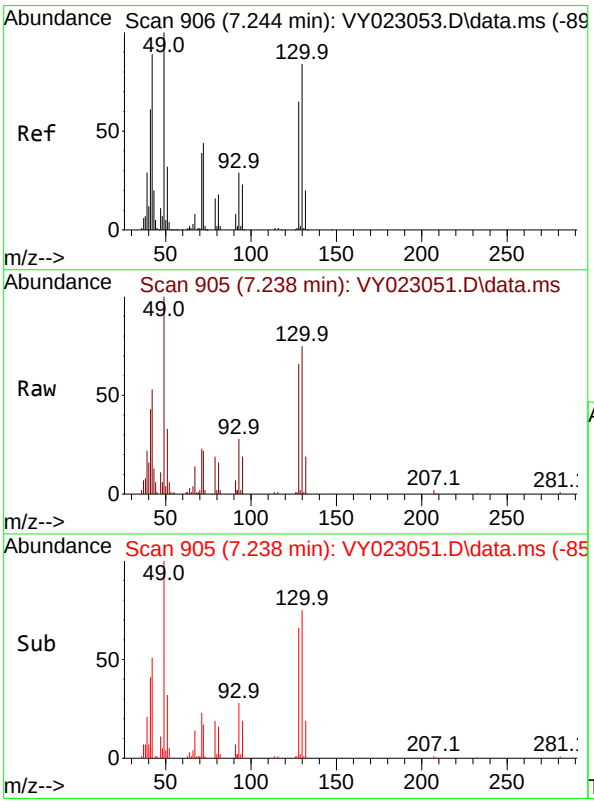
#27
cis-1,2-Dichloroethene
Concen: 9.970 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 68839

Ion	Ratio	Lower	Upper
96	100		
61	139.5	0.0	278.6
98	63.6	0.0	130.4

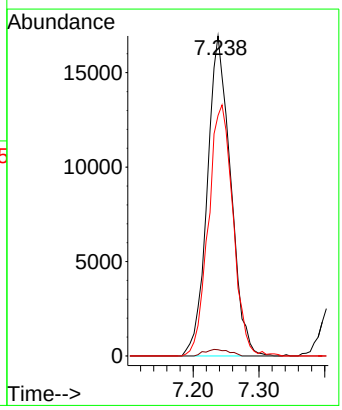


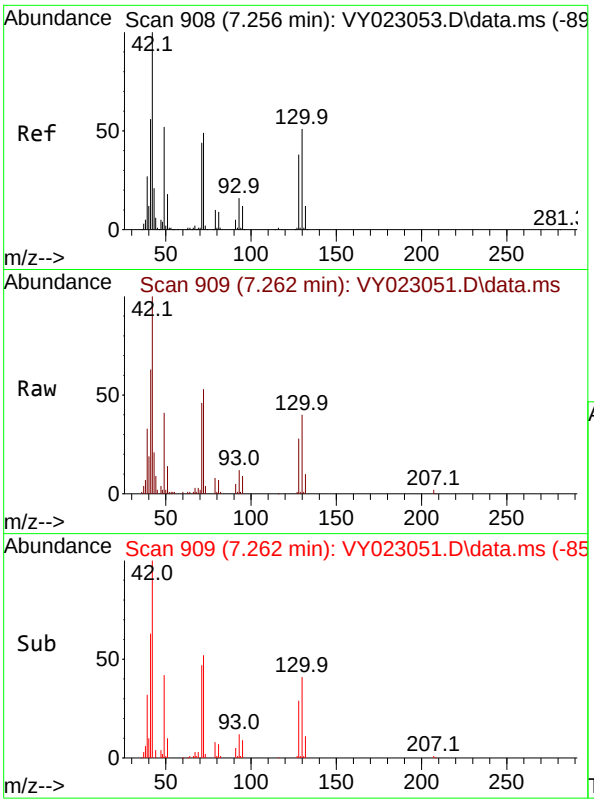


#28
Bromochloromethane
Concen: 10.146 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 49 Resp: 41820

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.8	66.4	99.6



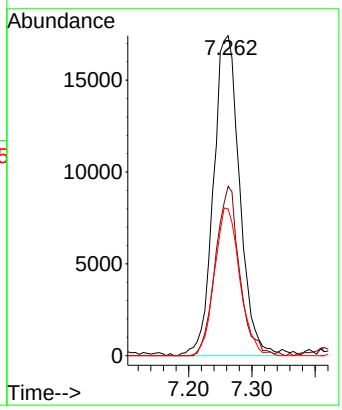


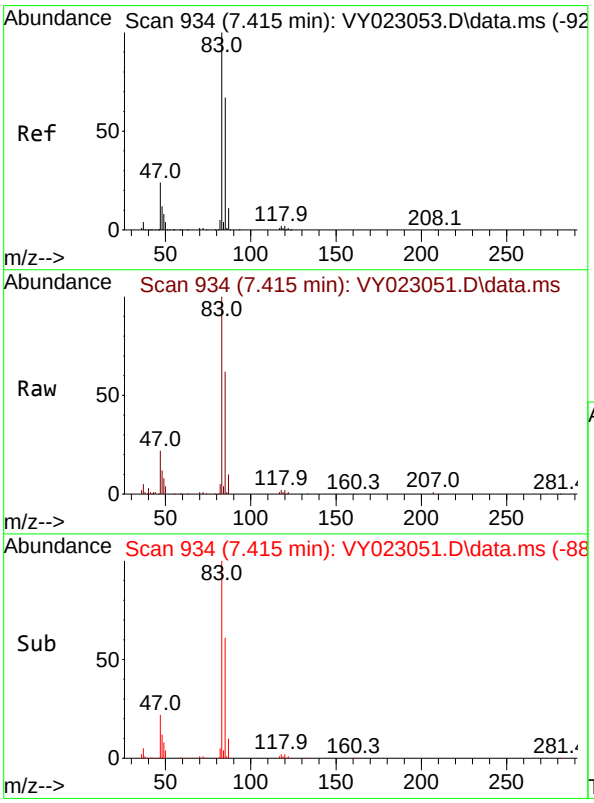
#29
Tetrahydrofuran
Concen: 52.005 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 49926

Ion	Ratio	Lower	Upper
42	100		
72	49.0	39.4	59.2
71	44.8	36.5	54.7

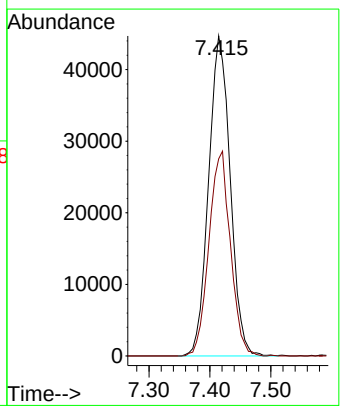


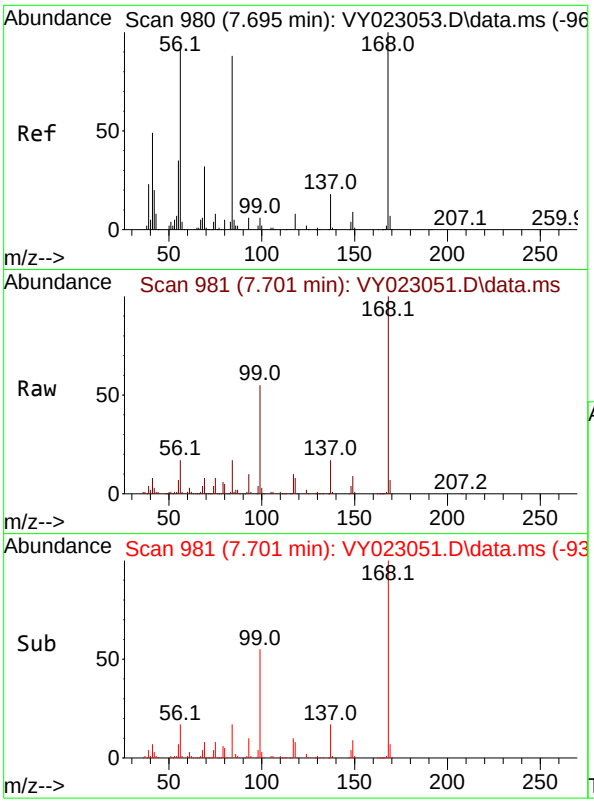


#30
Chloroform
Concen: 10.260 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 109942

Ion	Ratio	Lower	Upper
83	100		
85	61.6	53.8	80.8



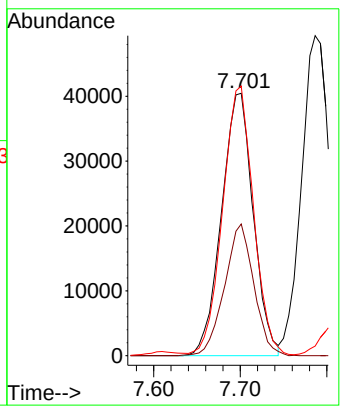


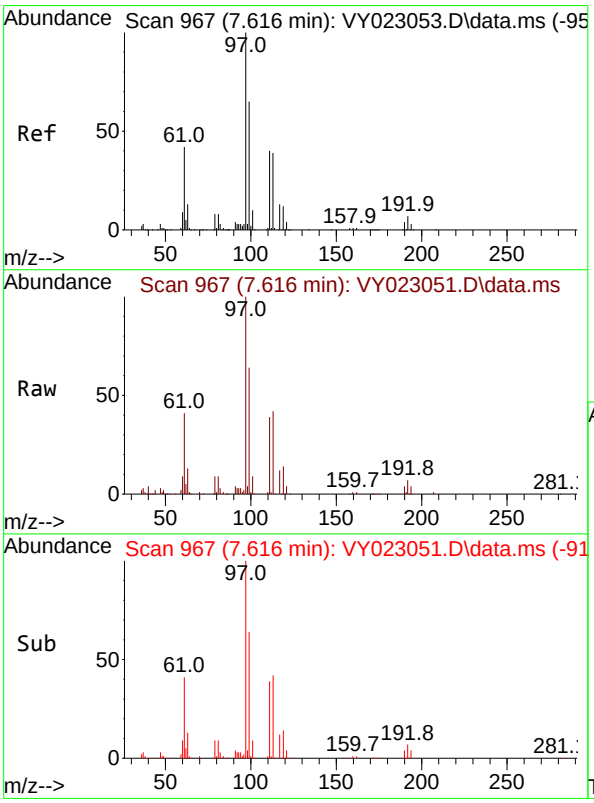
#31
Cyclohexane
Concen: 10.527 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 103068

Ion	Ratio	Lower	Upper
56	100		
69	50.2	28.2	42.2#
84	101.8	76.6	114.8

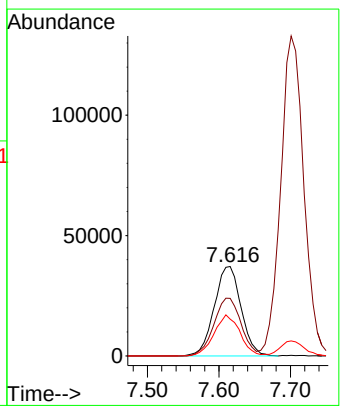


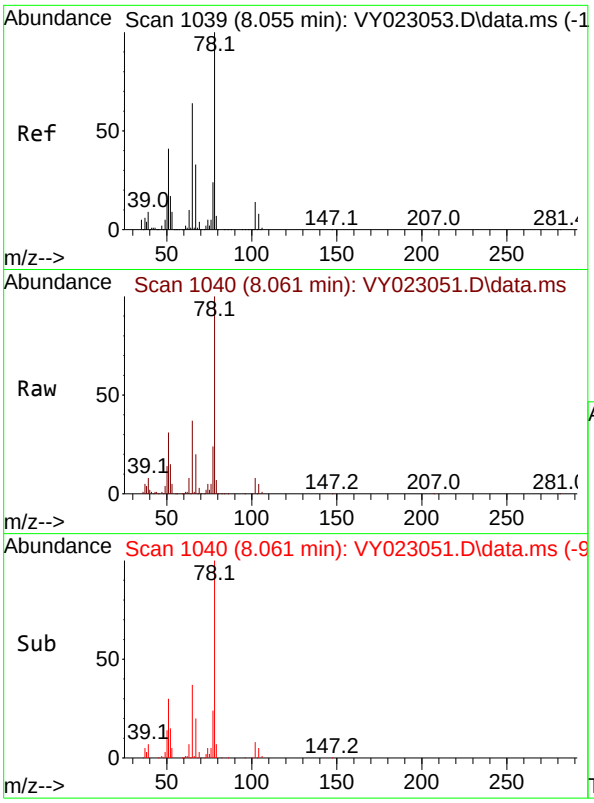


#32
1,1,1-Trichloroethane
Concen: 10.170 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 97 Resp: 96693

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	44.2	34.2	51.2



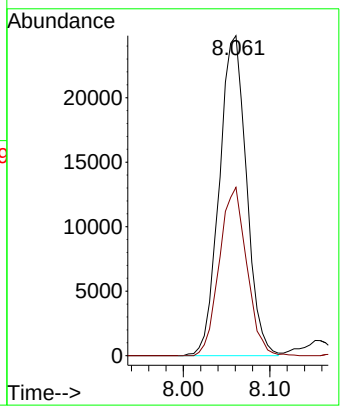


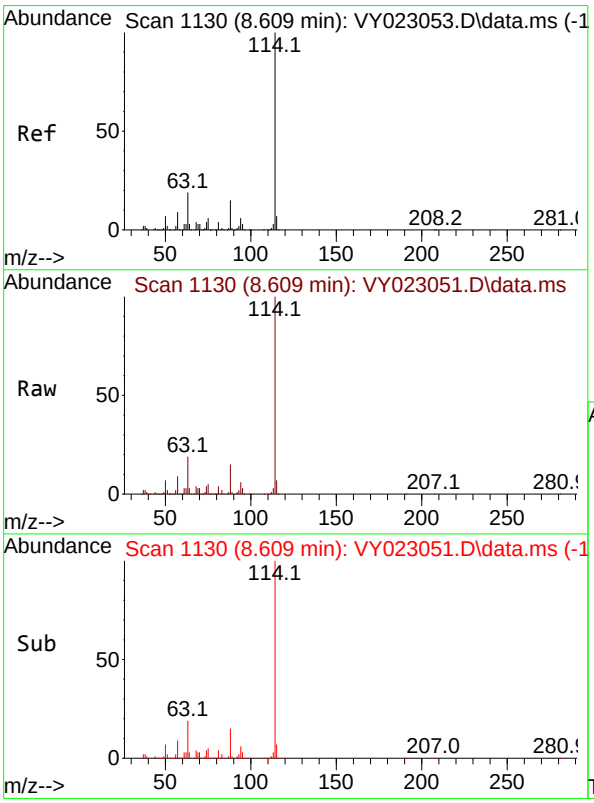
#33
1,2-Dichloroethane-d4
Concen: 10.274 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 54002

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

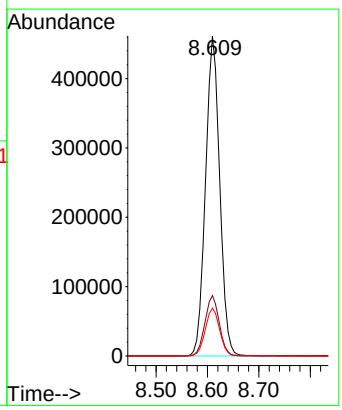


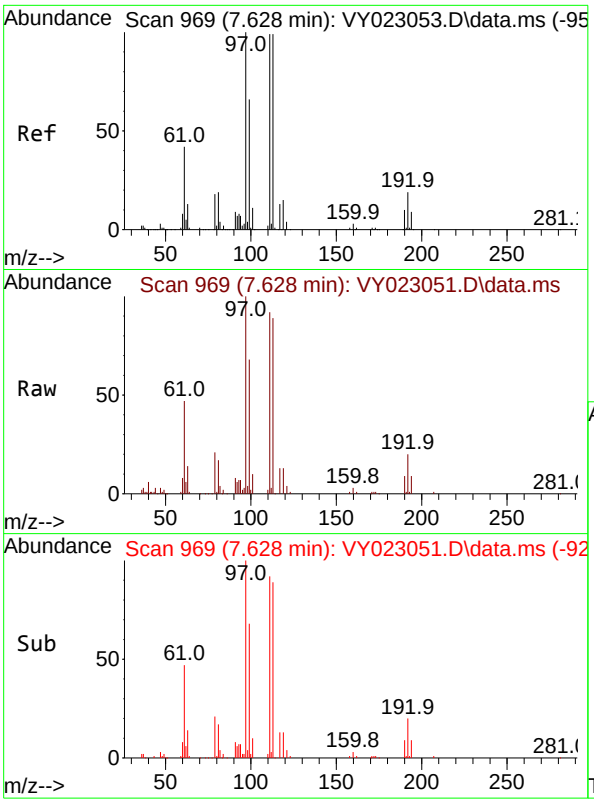


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:114 Resp: 883548

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	38.4
88	14.9	0.0	30.0



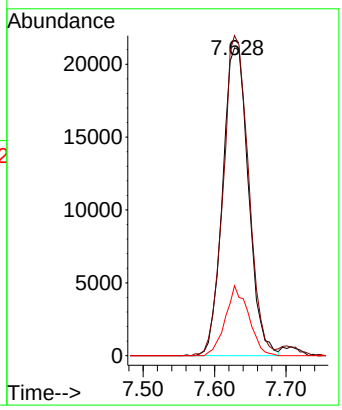


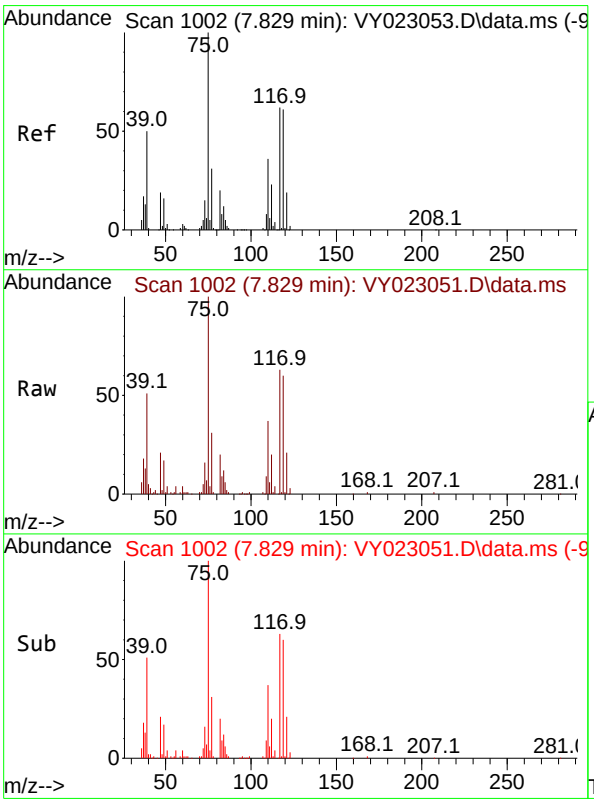
#35
Dibromofluoromethane
Concen: 10.009 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 52916

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	20.5	16.2	24.4

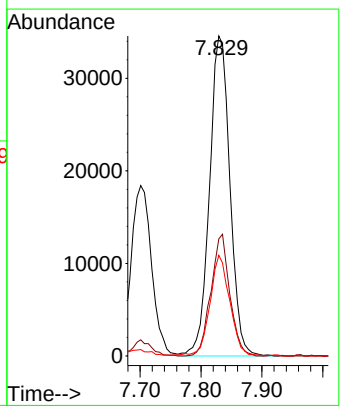


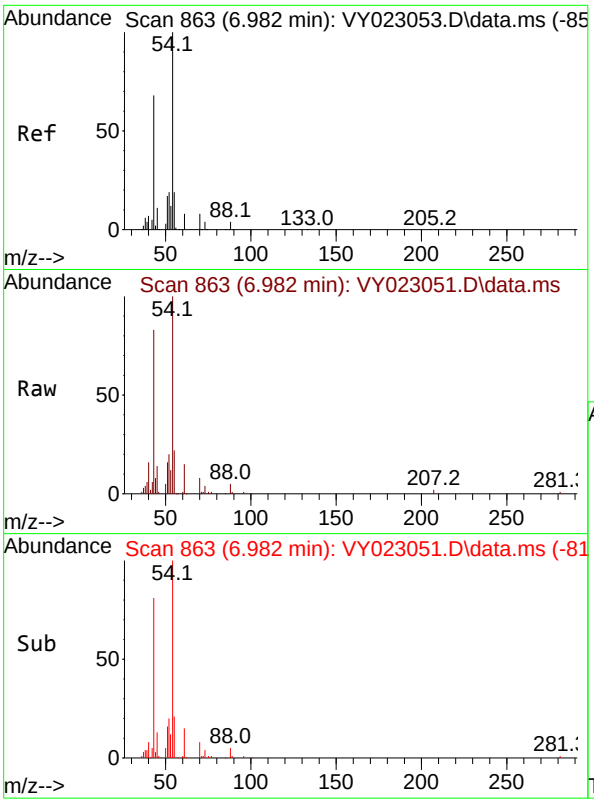


#36
1,1-Dichloropropene
Concen: 10.243 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 80479

Ion	Ratio	Lower	Upper
75	100		
110	35.2	18.1	54.4
77	30.7	24.6	37.0



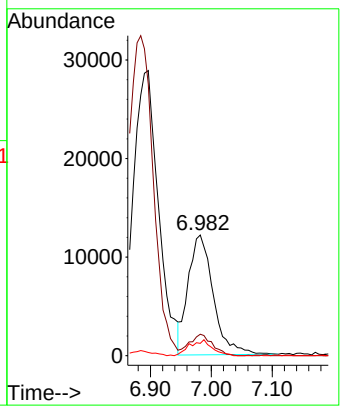


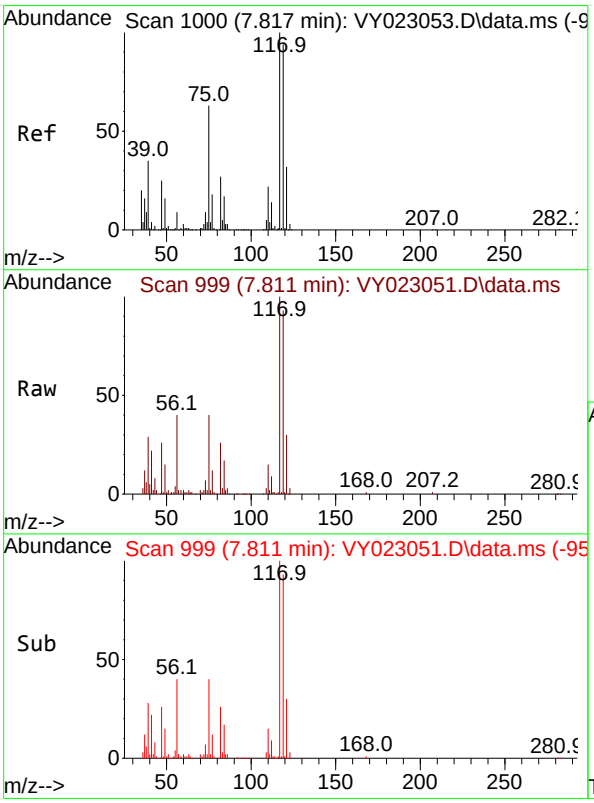
#37
Ethyl Acetate
Concen: 10.560 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 34854

Ion	Ratio	Lower	Upper
43	100		
61	16.5	11.9	17.9
70	11.7	8.8	13.2

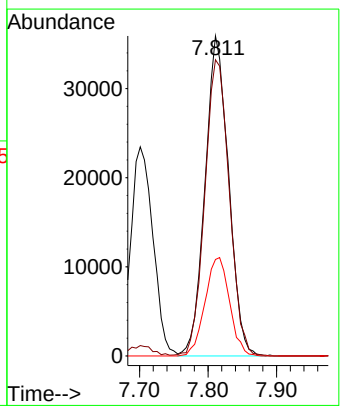


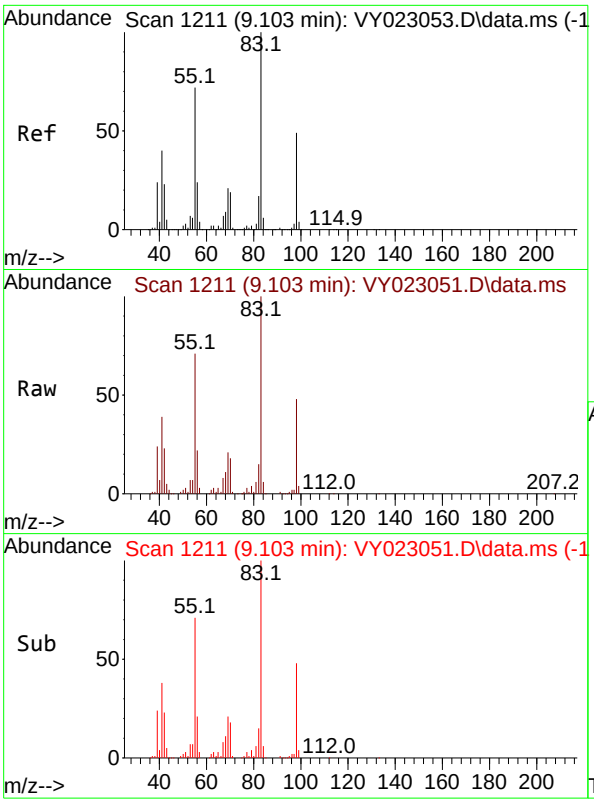


#38
Carbon Tetrachloride
Concen: 10.070 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 85932

Ion	Ratio	Lower	Upper
117	100		
119	92.5	75.6	113.4
121	30.1	25.8	38.8



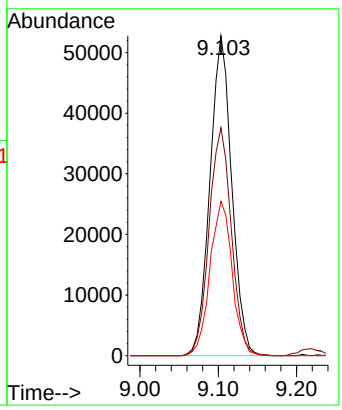


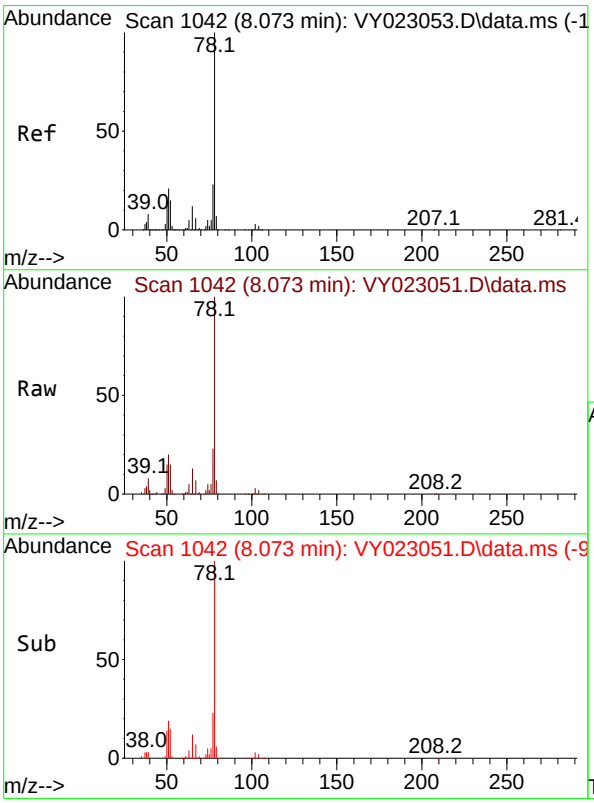
#39
Methylcyclohexane
Concen: 9.885 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 102275

Ion	Ratio	Lower	Upper
83	100		
55	71.3	57.6	86.4
98	48.2	39.2	58.8

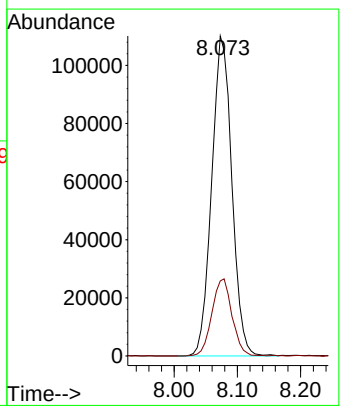


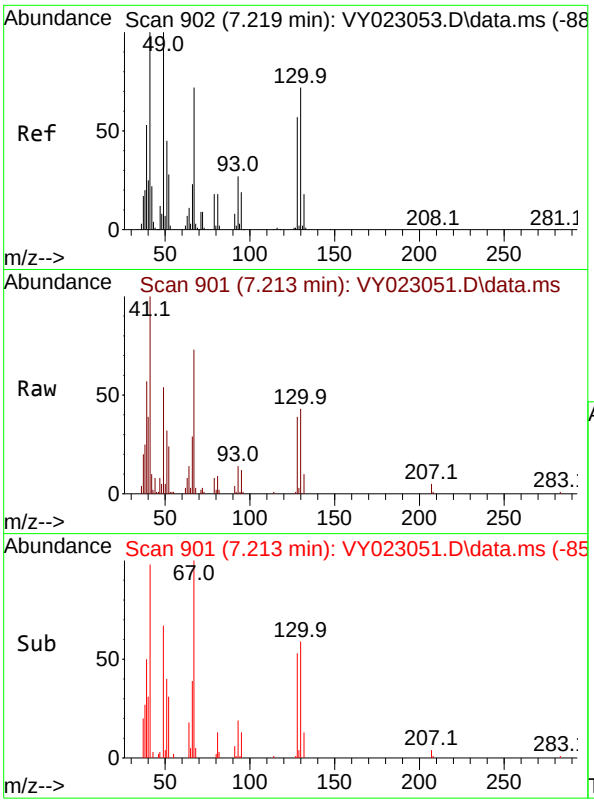


#40
Benzene
Concen: 10.037 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 78 Resp: 243060

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	28.0



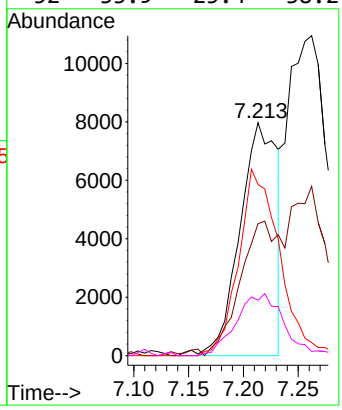


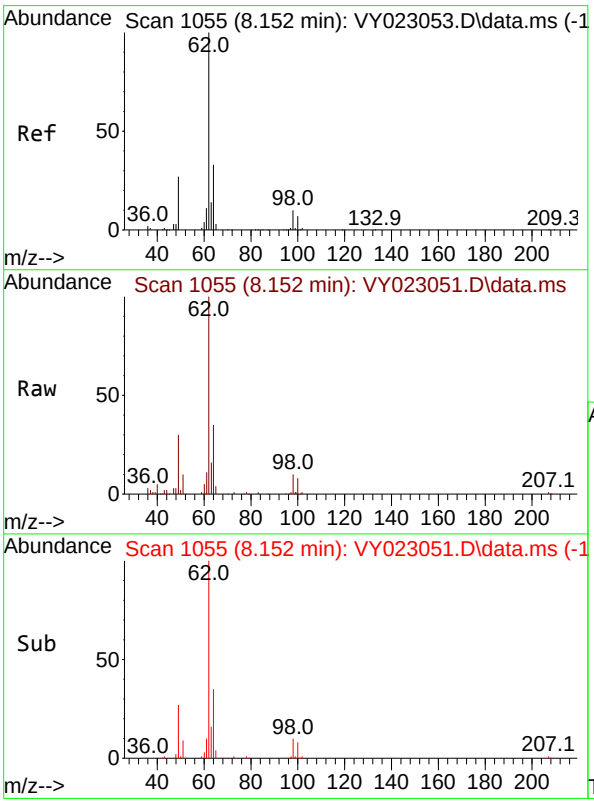
#41
Methacrylonitrile
Concen: 9.872 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 18825

Ion	Ratio	Lower	Upper
41	100		
39	66.1	43.4	65.2#
67	88.6	63.6	95.4
52	33.9	25.4	38.2

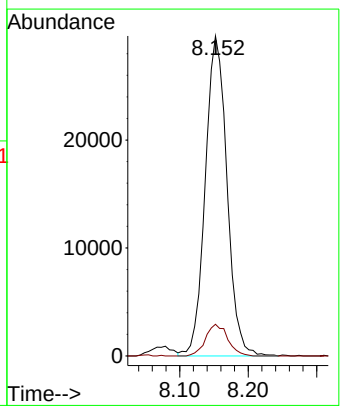


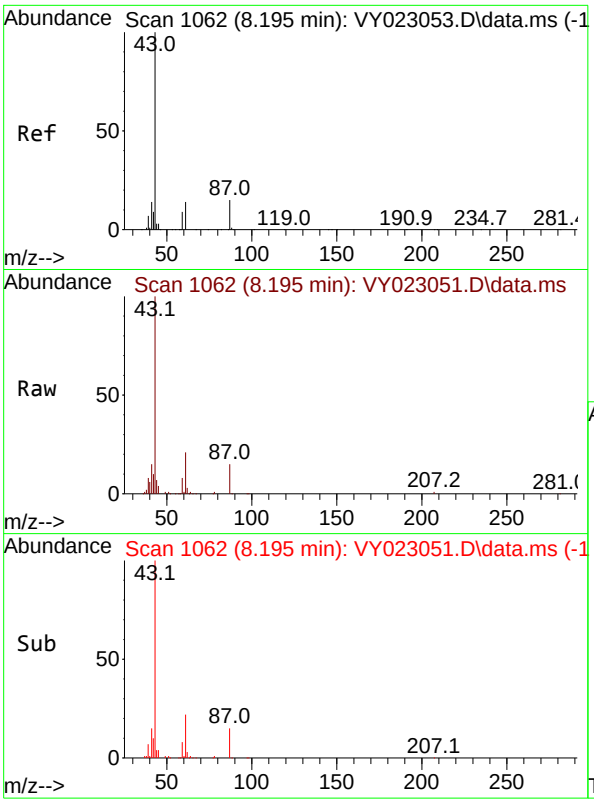


#42
1,2-Dichloroethane
Concen: 10.376 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 65350

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



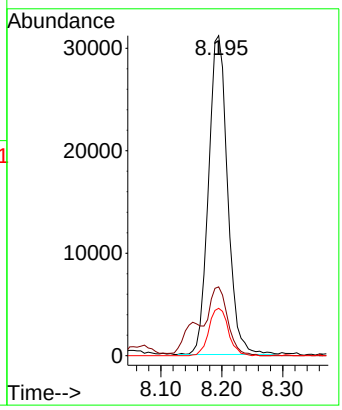


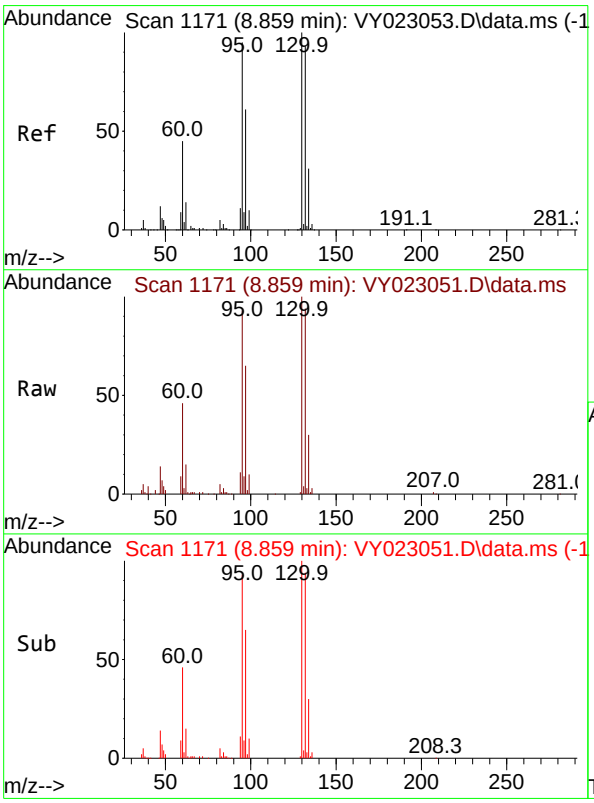
#43
Isopropyl Acetate
Concen: 10.144 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 67669

Ion	Ratio	Lower	Upper
43	100		
61	20.8	16.4	24.6
87	15.2	11.8	17.6

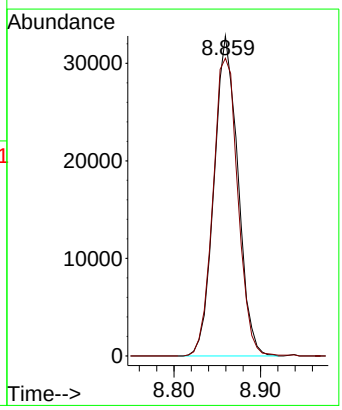


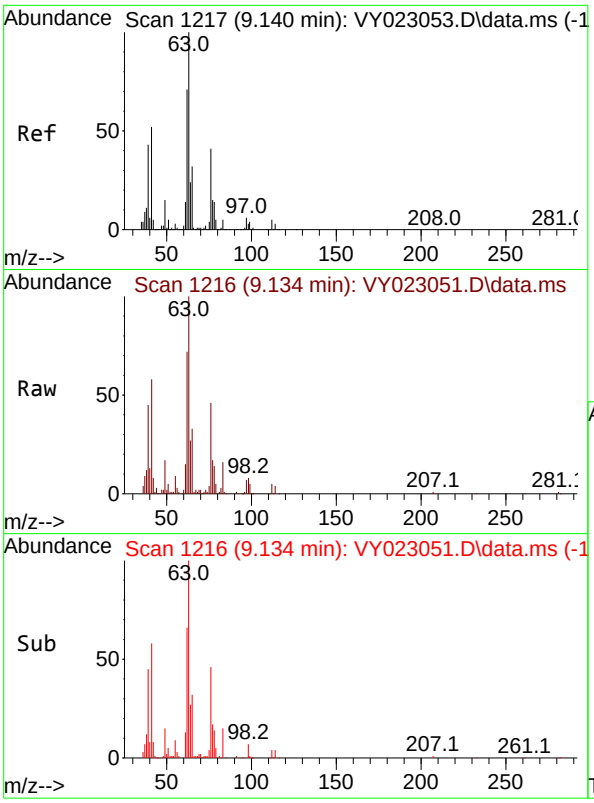


#44
Trichloroethene
Concen: 10.017 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:130 Resp: 62689

Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	190.2



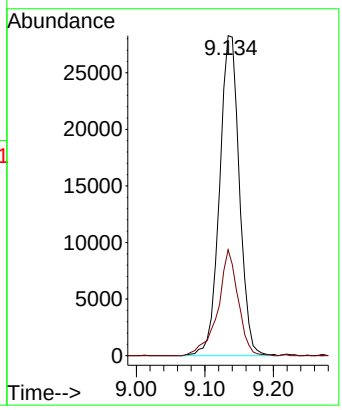


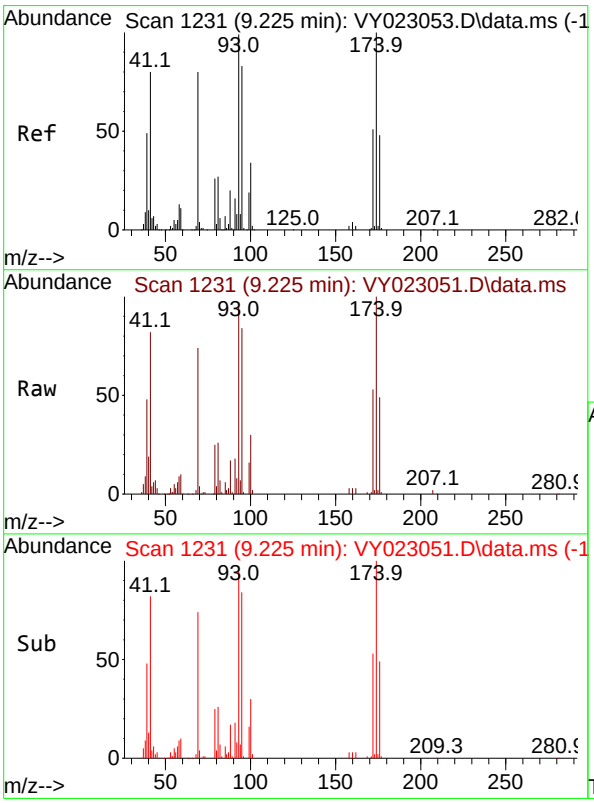
#45
1,2-Dichloropropane
Concen: 10.179 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 56720

Ion	Ratio	Lower	Upper
63	100		
65	33.1	25.3	37.9

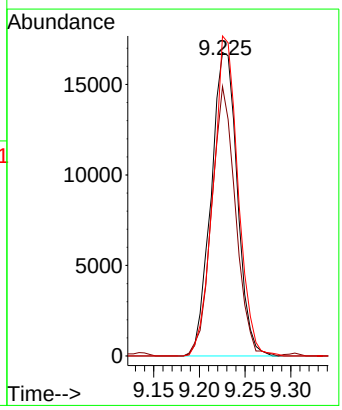


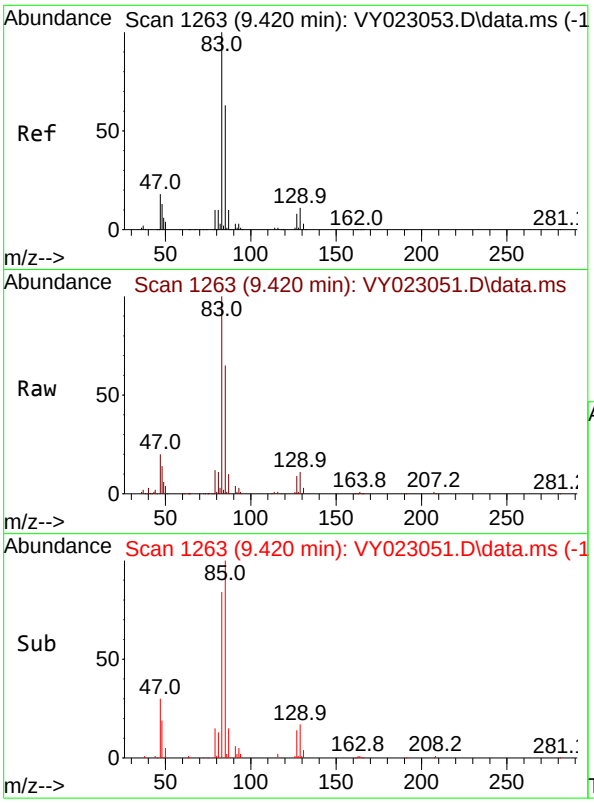


#46
Dibromomethane
Concen: 10.462 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 93 Resp: 33460

Ion	Ratio	Lower	Upper
93	100		
95	80.9	66.5	99.7
174	100.0	81.8	122.8



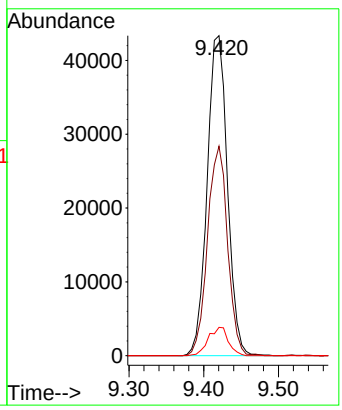


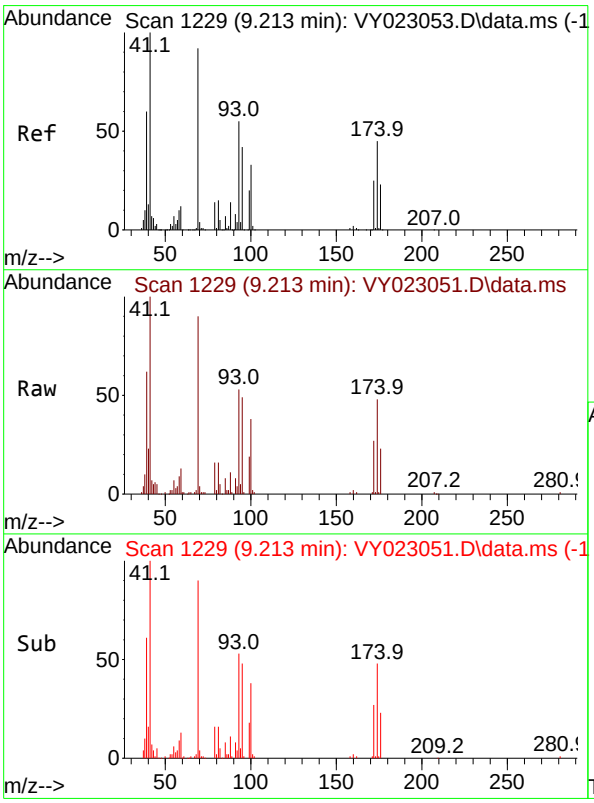
#47
Bromodichloromethane
Concen: 9.959 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 81951

Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.2	75.4
127	8.8	6.6	10.0

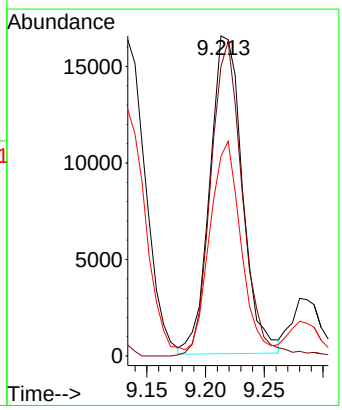


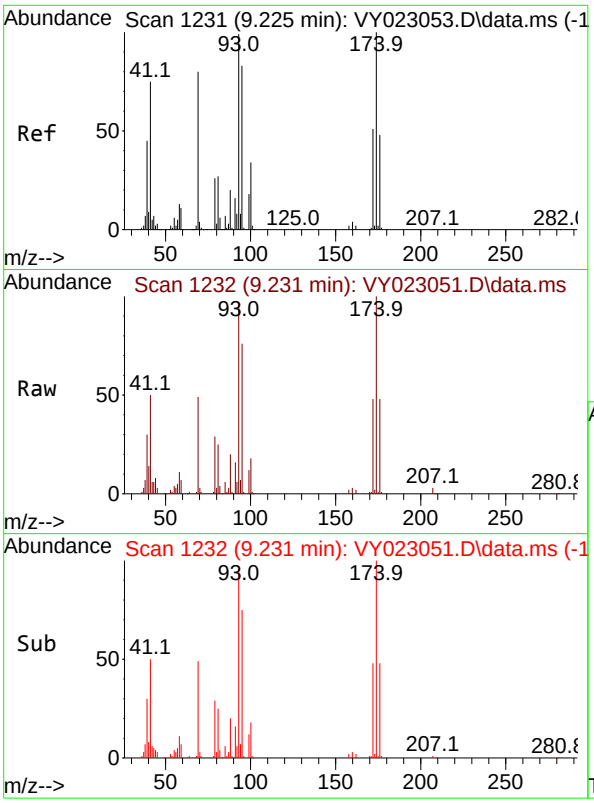


#48
Methyl methacrylate
Concen: 9.978 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 31851

Ion	Ratio	Lower	Upper
41	100		
69	96.0	73.2	109.8
39	60.9	47.0	70.4



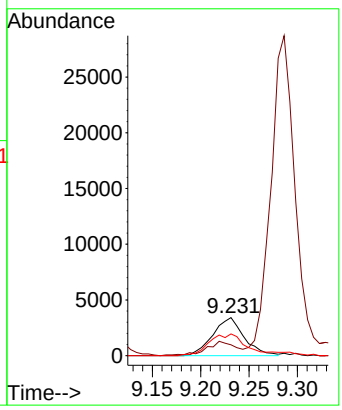


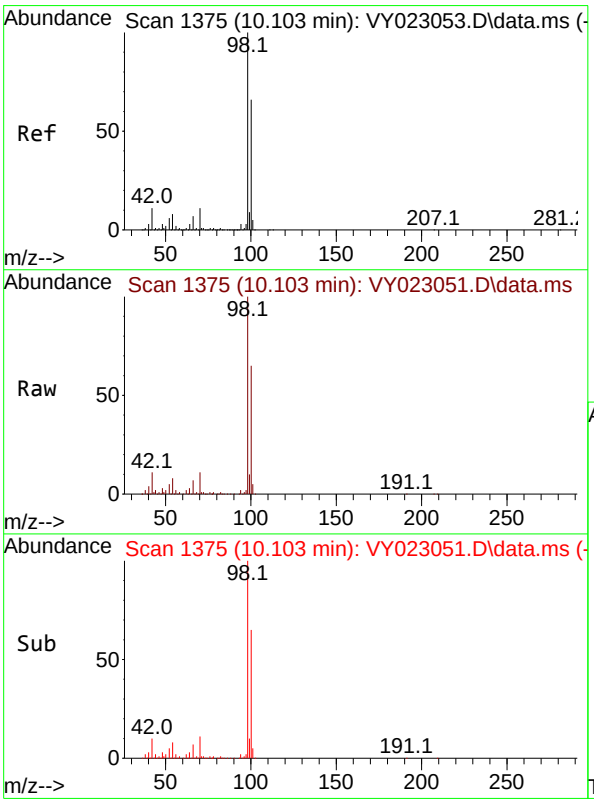
#49
1,4-Dioxane
Concen: 205.471 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 7705

Ion	Ratio	Lower	Upper
88	100		
43	35.3	24.3	36.5
58	73.3	55.4	83.0

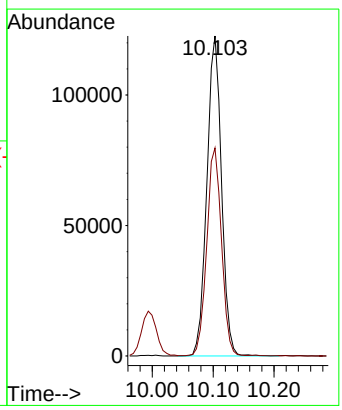


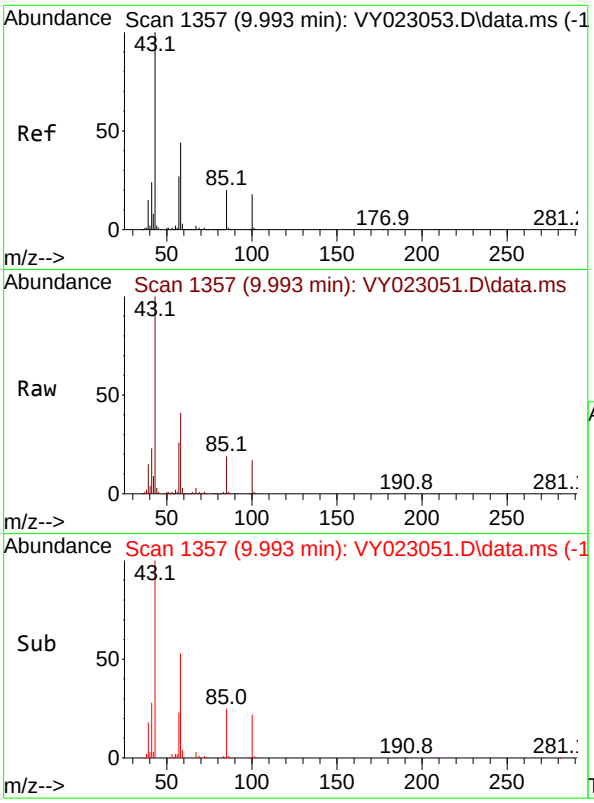


#50
Toluene-d8
Concen: 9.903 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 98 Resp: 204532

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5



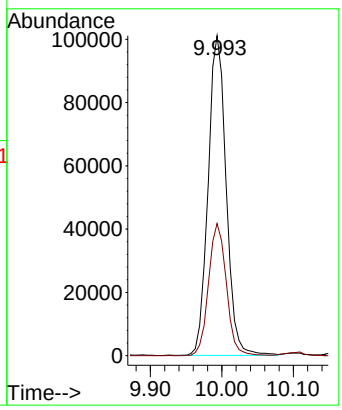


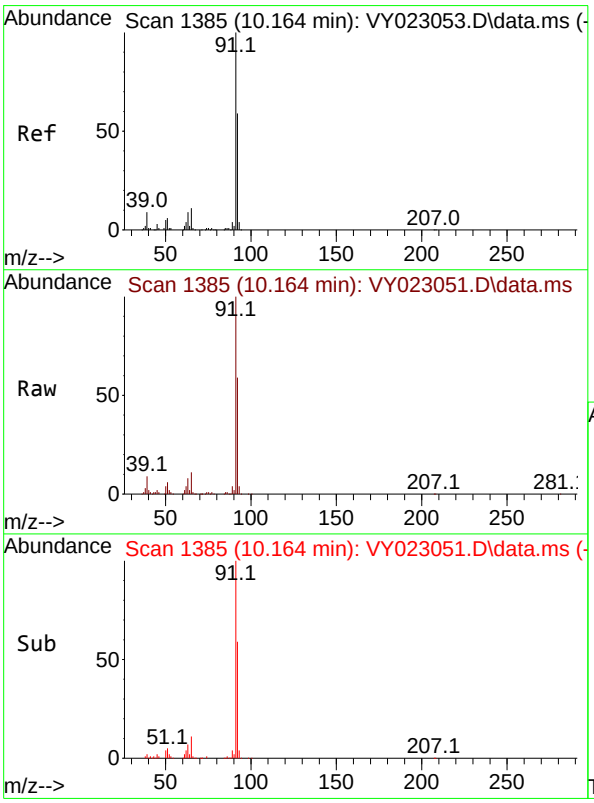
#51
4-Methyl-2-Pentanone
Concen: 51.484 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 177157

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.5	50.3

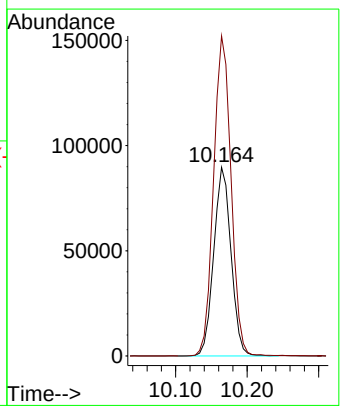


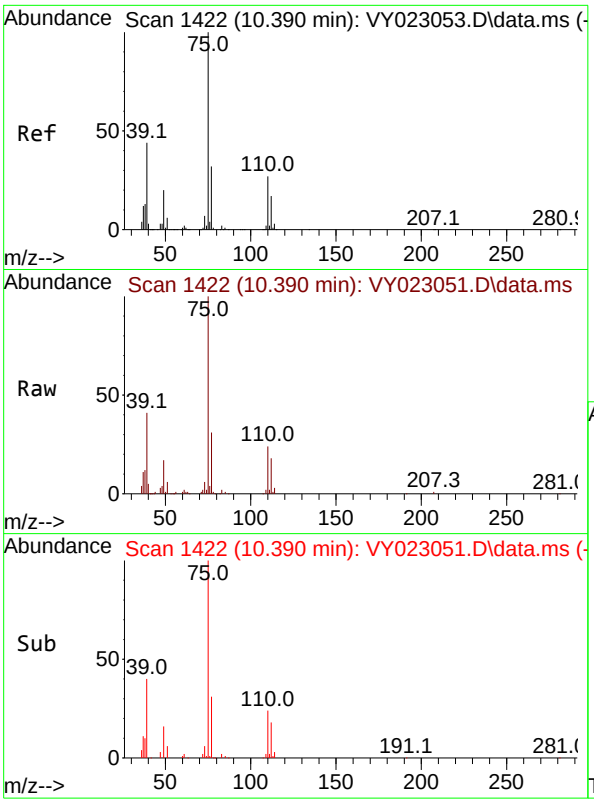


#52
Toluene
Concen: 9.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 92 Resp: 150422

Ion	Ratio	Lower	Upper
92	100		
91	171.3	136.4	204.6



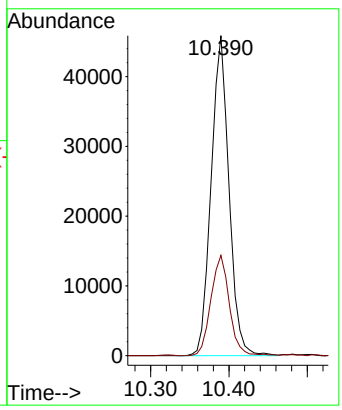


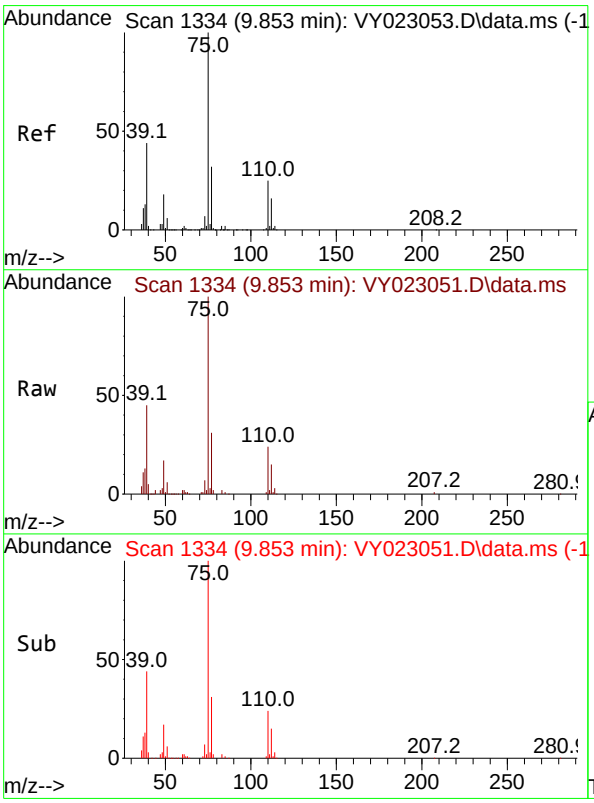
#53
t-1,3-Dichloropropene
Concen: 9.730 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 72507

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.7	38.5

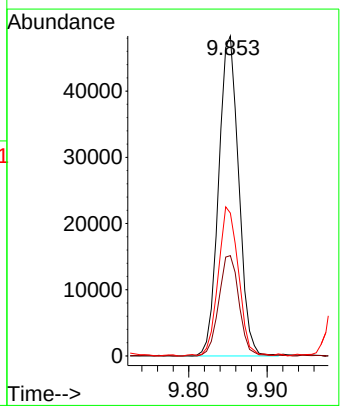


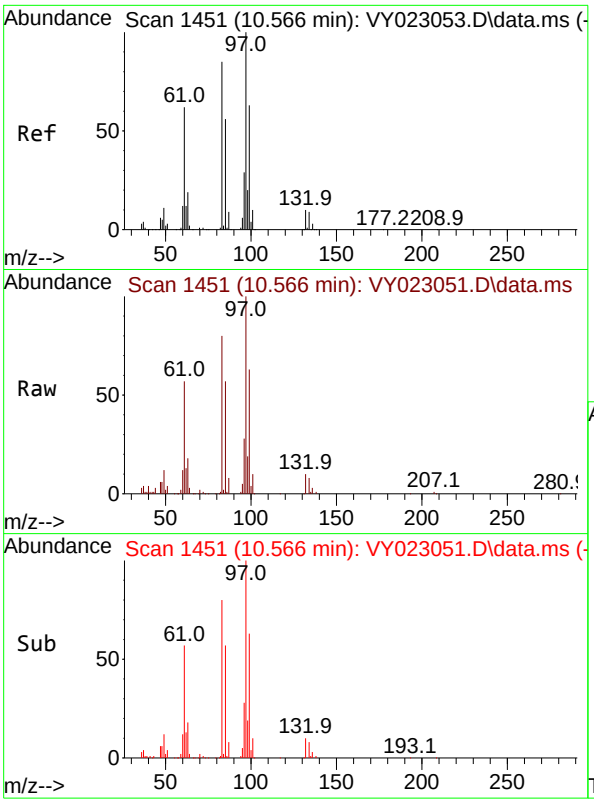


#54
cis-1,3-Dichloropropene
Concen: 9.753 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 85945

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	44.6	35.6	53.4



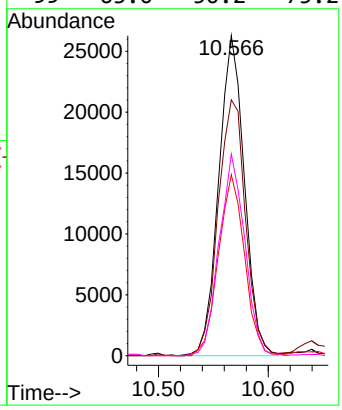


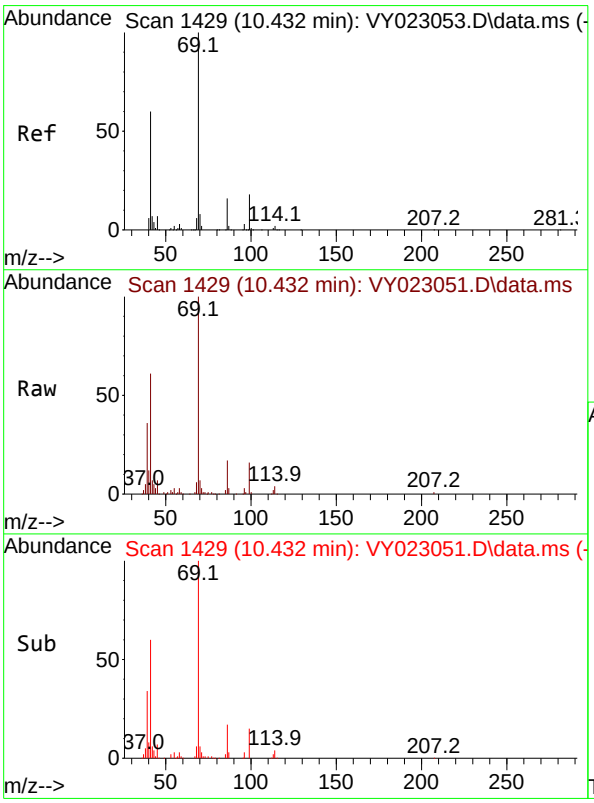
#55
1,1,2-Trichloroethane
Concen: 9.981 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 42712

Ion	Ratio	Lower	Upper
97	100		
83	79.9	67.7	101.5
85	56.6	44.5	66.7
99	63.0	50.2	75.2

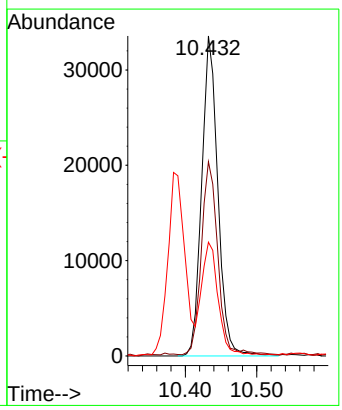


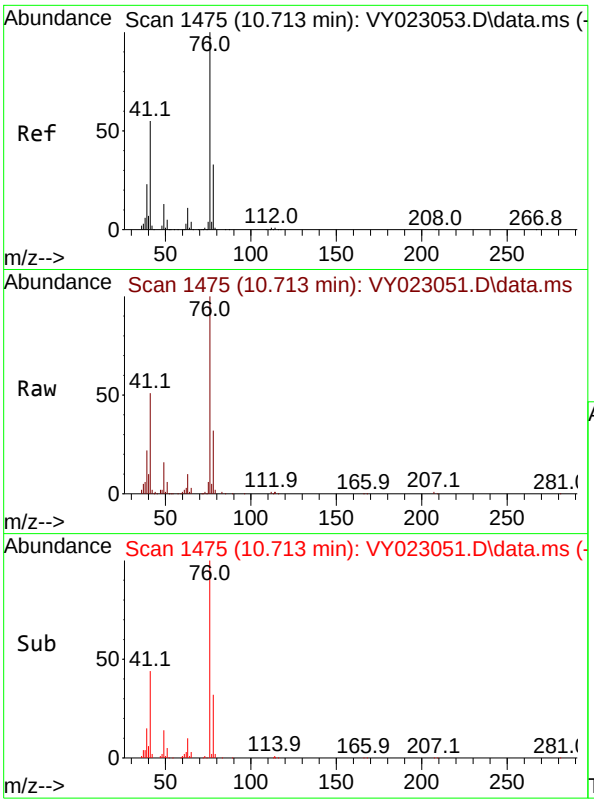


#56
Ethyl methacrylate
Concen: 9.632 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 69 Resp: 52746

Ion	Ratio	Lower	Upper
69	100		
41	61.0	48.6	72.8
39	35.9	27.0	40.4



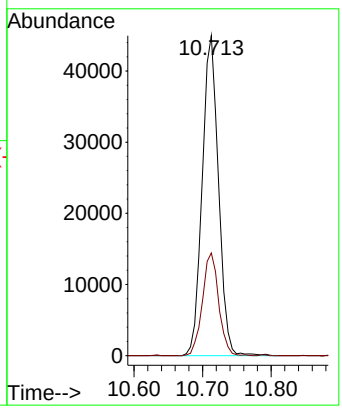


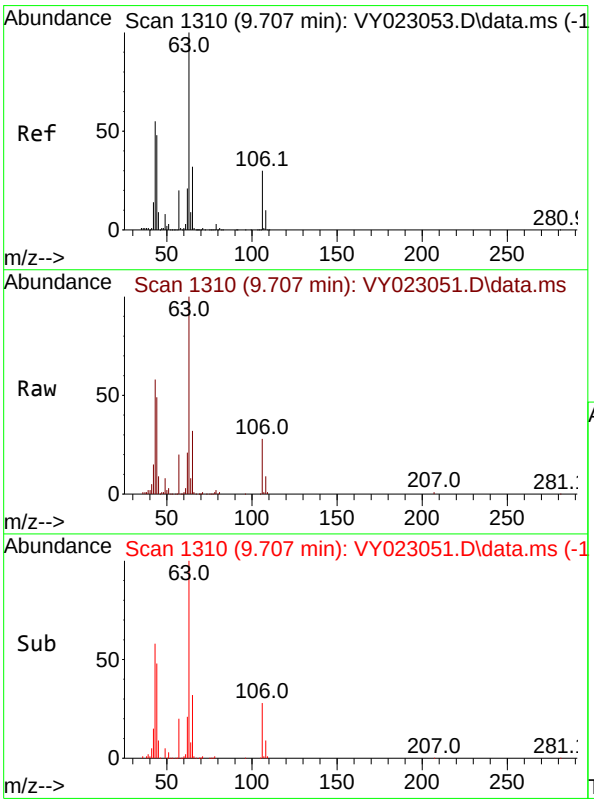
#57
1,3-Dichloropropane
Concen: 10.256 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 74433

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0

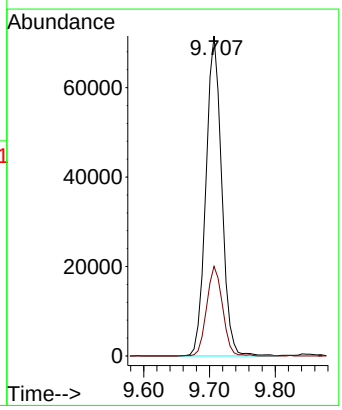


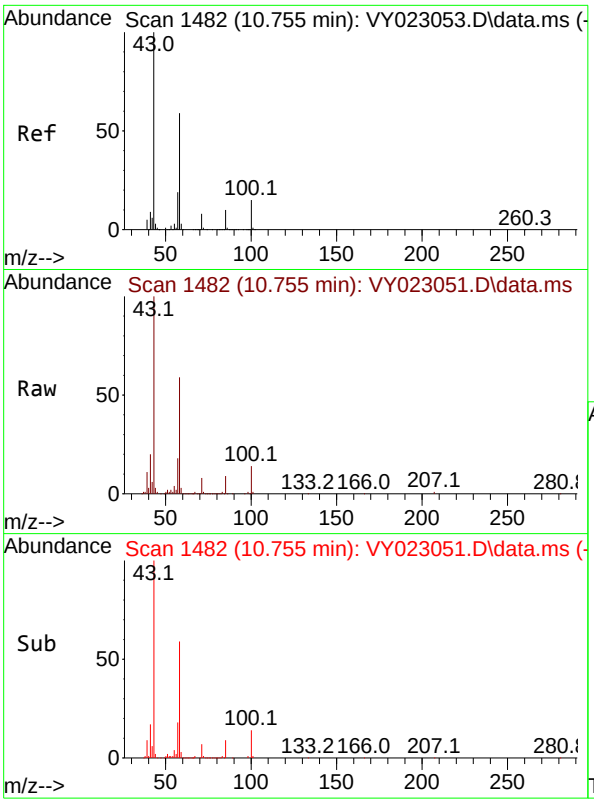


#58
2-Chloroethyl Vinyl ether
Concen: 46.232 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 119417

Ion	Ratio	Lower	Upper
63	100		
106	28.2	23.2	34.8



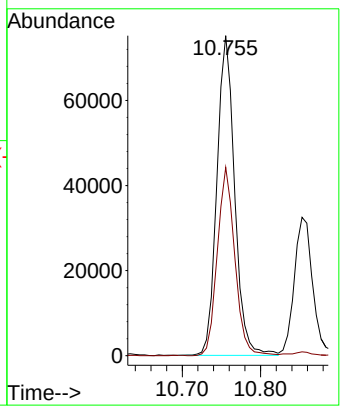


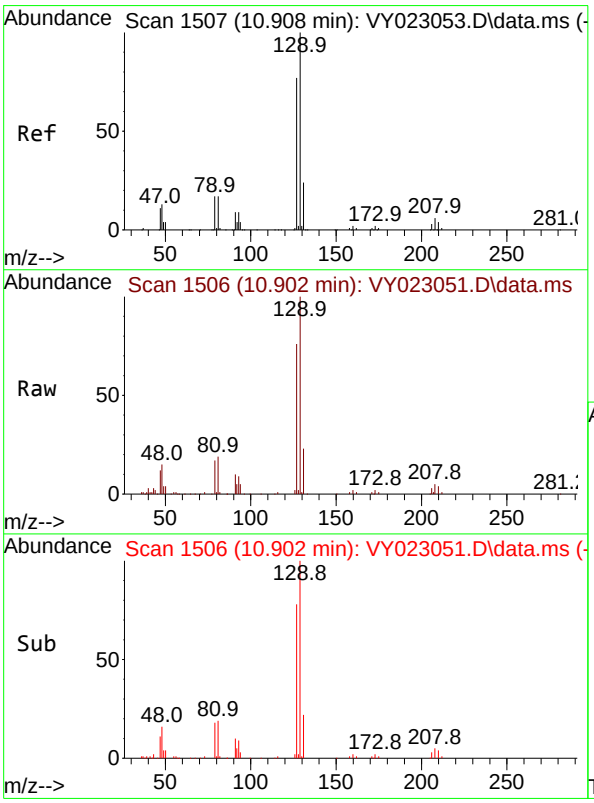
#59
2-Hexanone
Concen: 50.553 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 118452

Ion	Ratio	Lower	Upper
43	100		
58	58.3	29.5	88.5

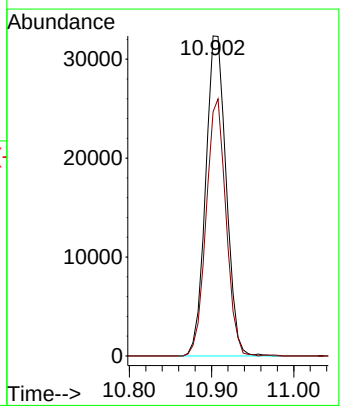


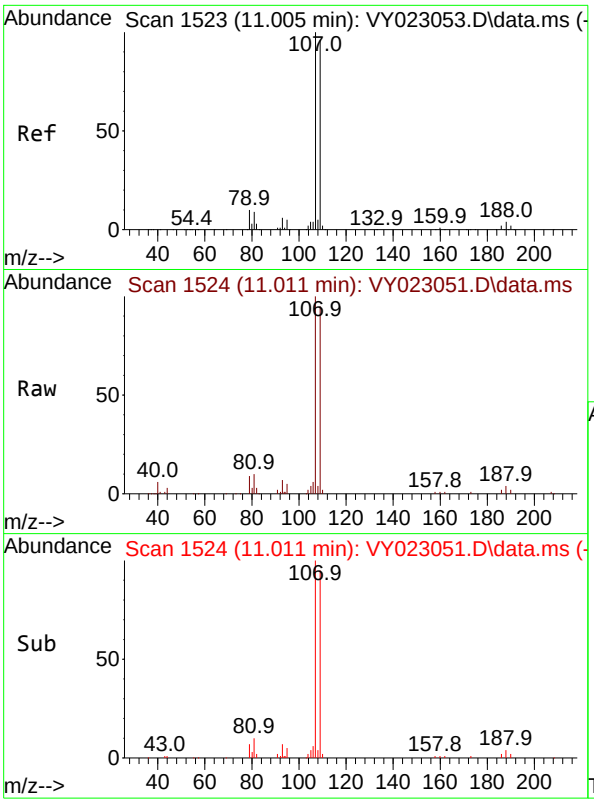


#60
Dibromochloromethane
Concen: 9.925 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:129 Resp: 56045

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5



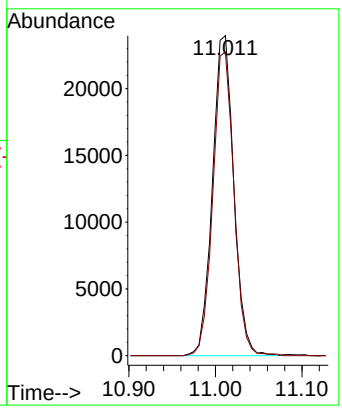


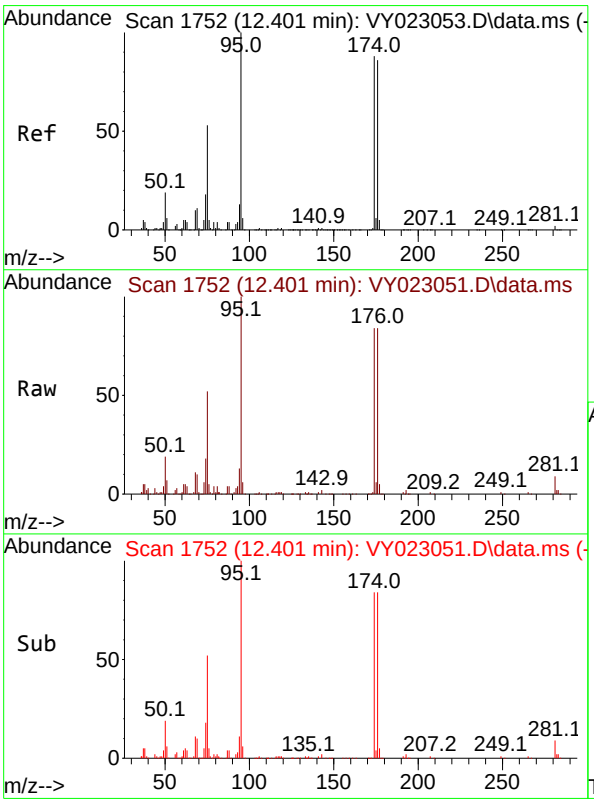
#61
1,2-Dibromoethane
Concen: 10.196 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 41009

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.6	113.4

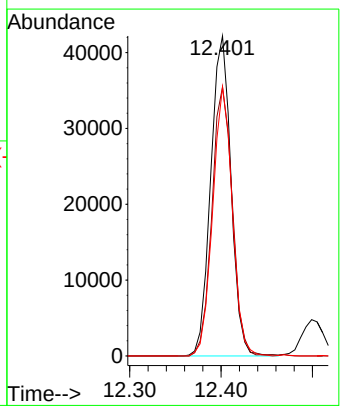


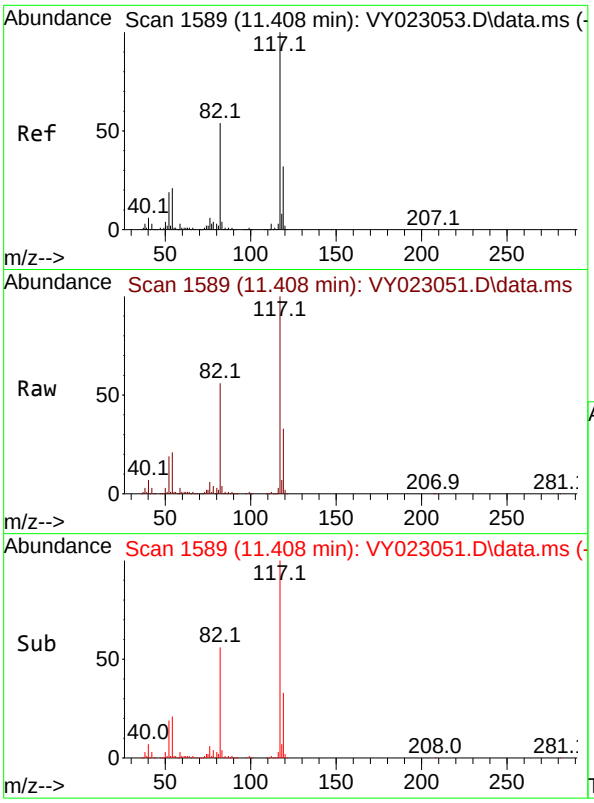


#62
4-Bromofluorobenzene
Concen: 9.775 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 95 Resp: 64927

Ion	Ratio	Lower	Upper
95	100		
174	84.8	0.0	171.6
176	81.7	0.0	167.6



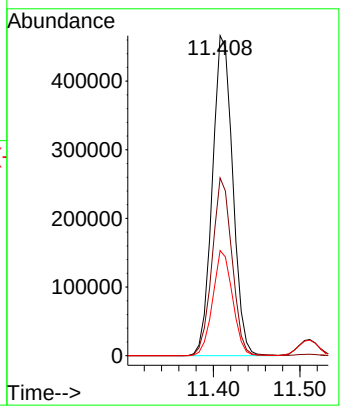


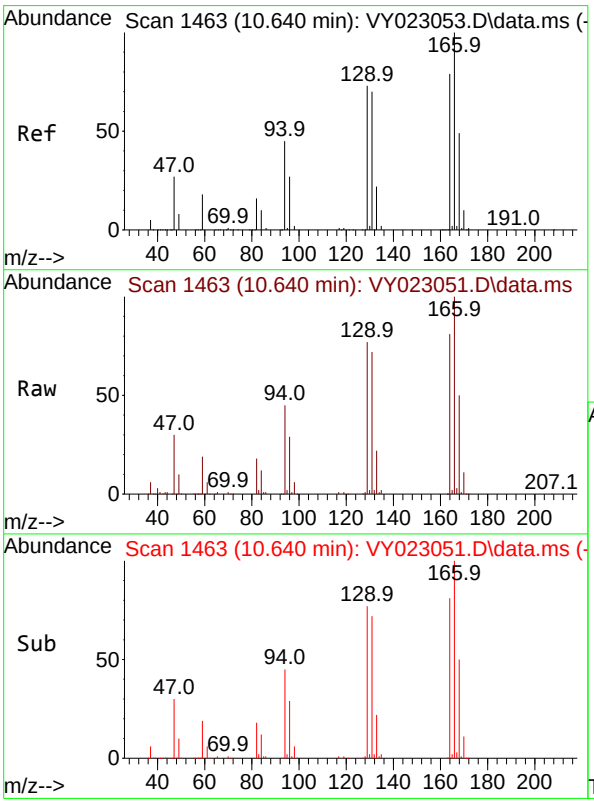
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 761327

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.8	25.6	38.4

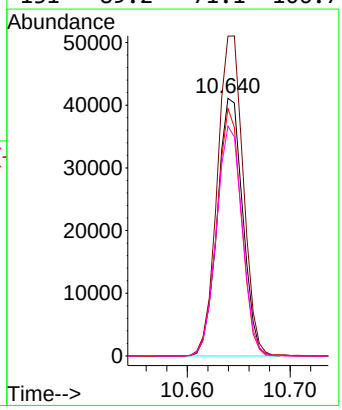


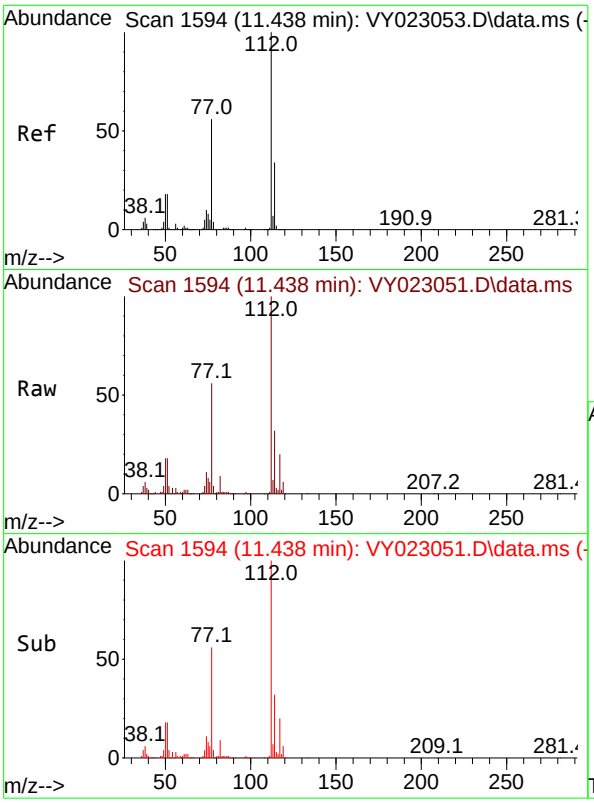


#64
Tetrachloroethene
Concen: 10.371 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:164 Resp: 70502

Ion	Ratio	Lower	Upper
164	100		
166	124.2	101.1	151.7
129	96.0	74.0	111.0
131	89.2	71.1	106.7



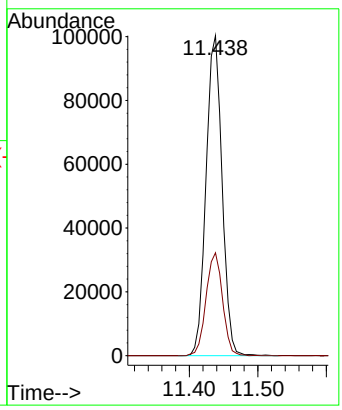


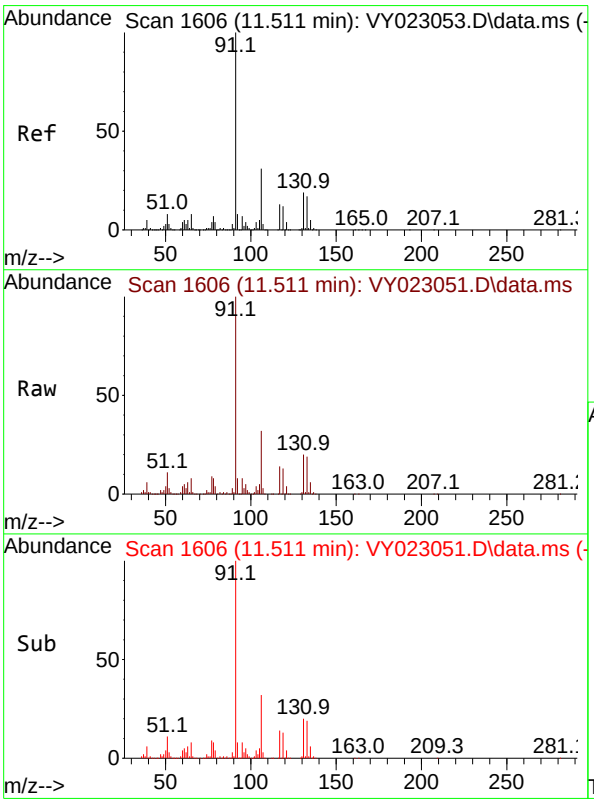
#65
Chlorobenzene
Concen: 9.925 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 162985

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

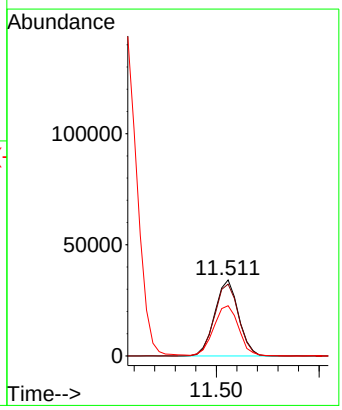


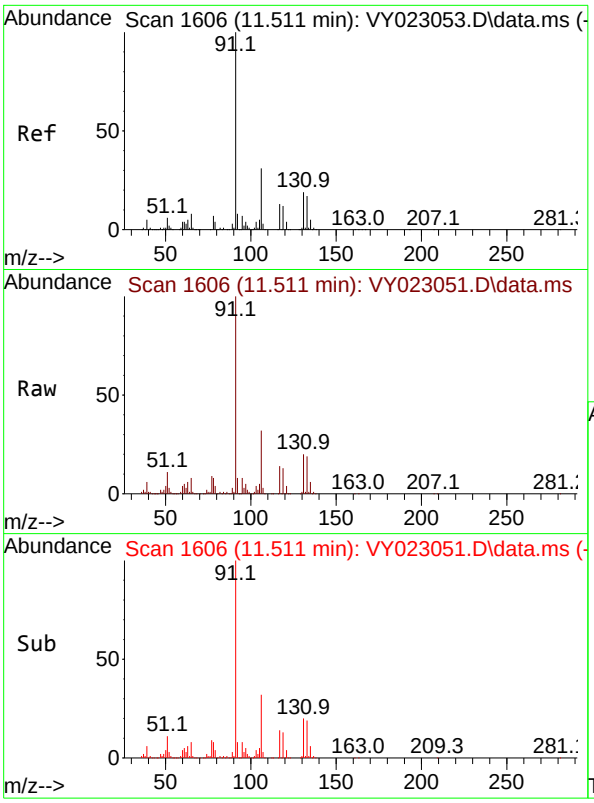


#66
1,1,1,2-Tetrachloroethane
Concen: 9.842 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:131 Resp: 54856

Ion	Ratio	Lower	Upper
131	100		
133	96.5	46.9	140.6
119	69.8	33.2	99.6



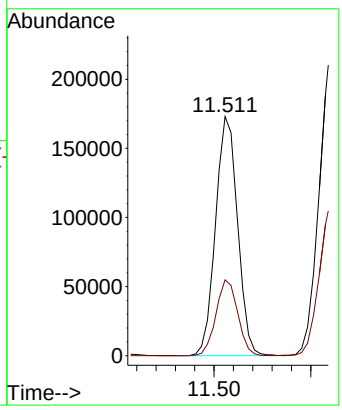


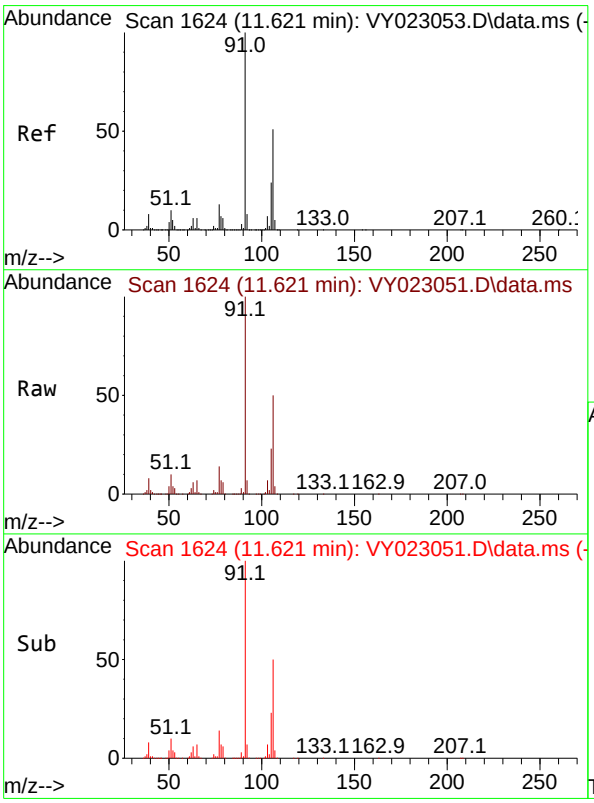
#67
Ethyl Benzene
Concen: 9.670 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 273281

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

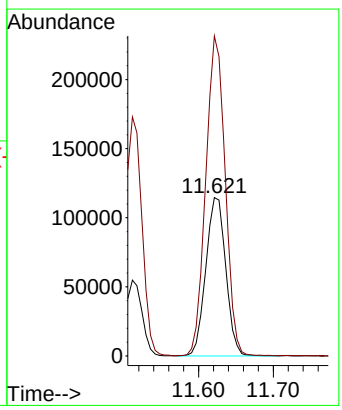


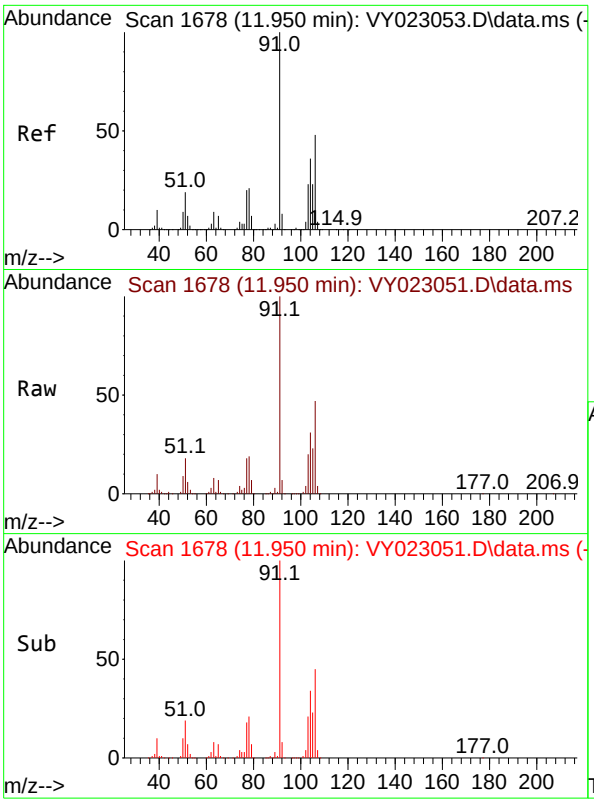


#68
m/p-Xylenes
Concen: 19.277 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 212766

Ion	Ratio	Lower	Upper
106	100		
91	196.5	158.6	238.0



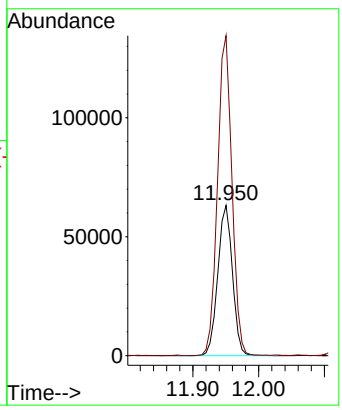


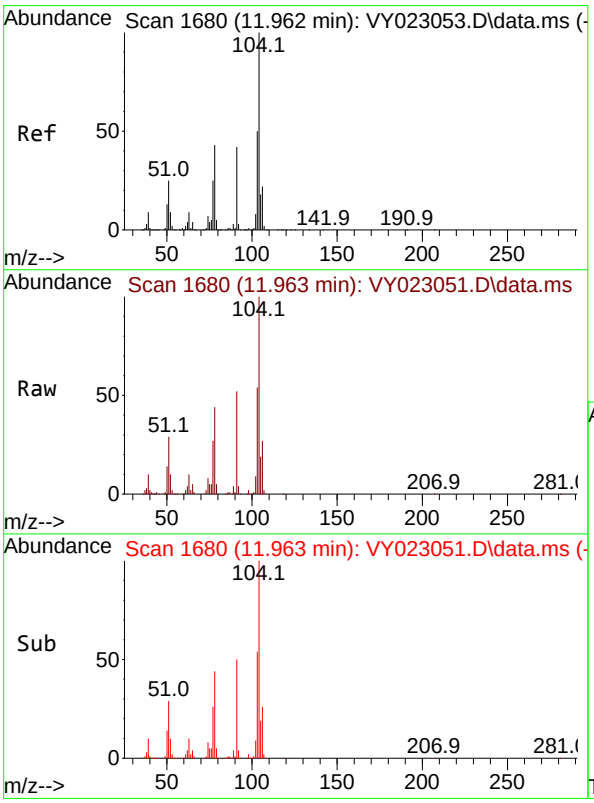
#69
o-Xylene
Concen: 9.465 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 97841

Ion	Ratio	Lower	Upper
106	100		
91	210.2	103.2	309.4

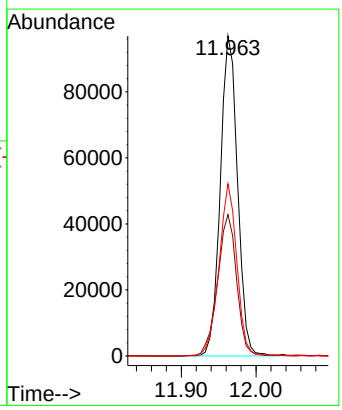


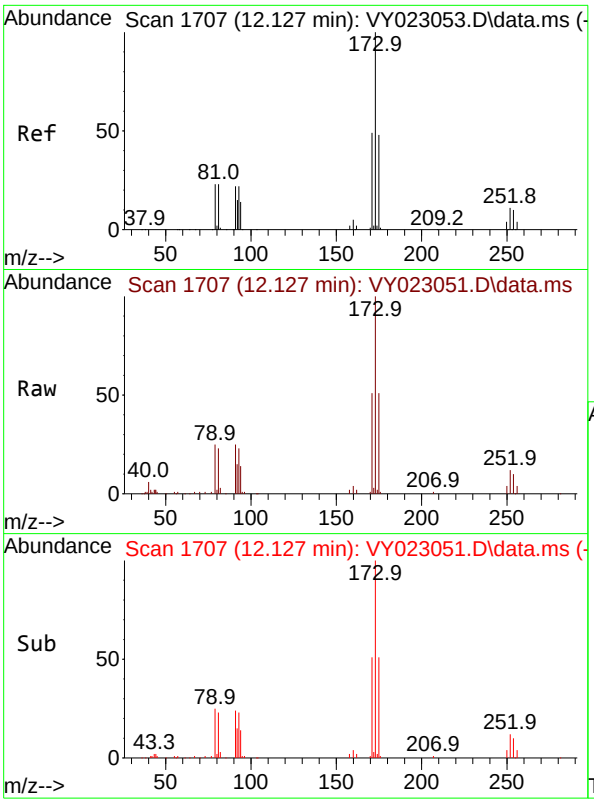


#70
Styrene
Concen: 9.216 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:104 Resp: 155809

Ion	Ratio	Lower	Upper
104	100		
78	48.8	38.5	57.7
103	55.6	43.7	65.5



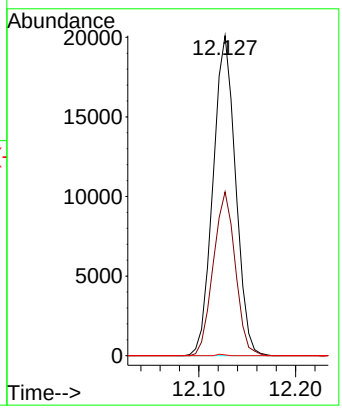


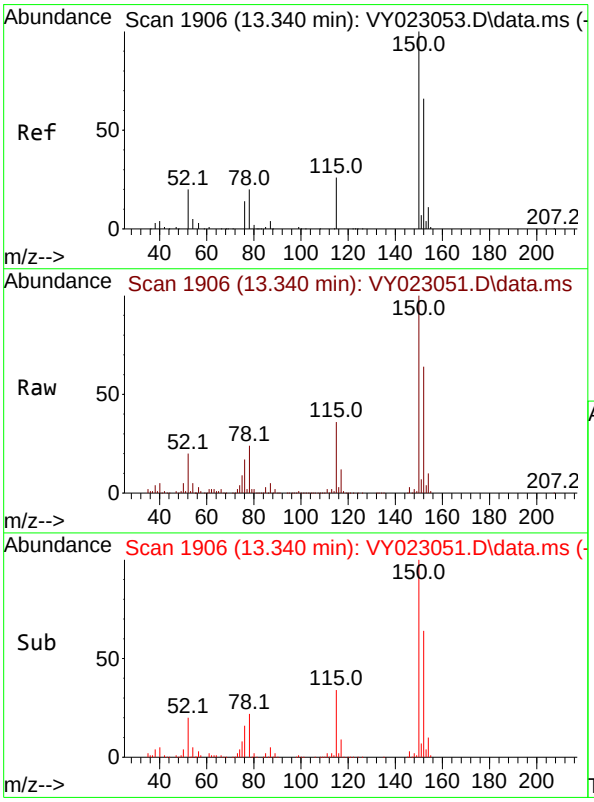
#71
Bromoform
Concen: 9.968 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 32470

Ion	Ratio	Lower	Upper
173	100		
175	50.0	23.9	71.7
254	0.2	0.1	0.1#

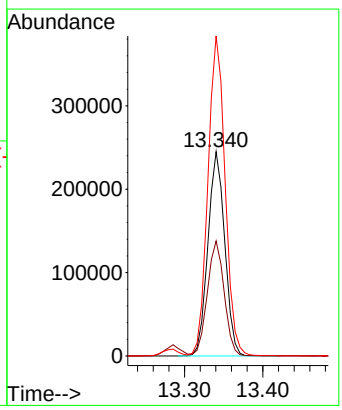


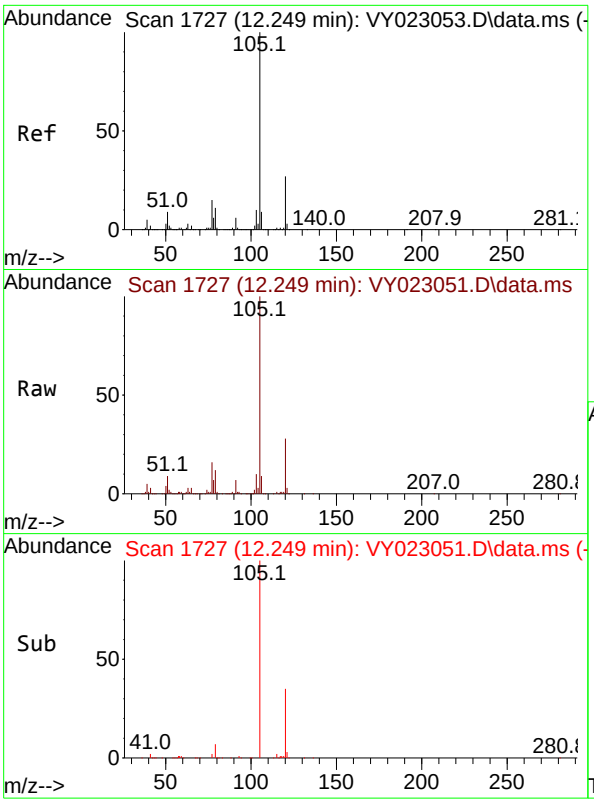


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:152 Resp: 365647

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.2	84.6
150	159.7	0.0	348.0



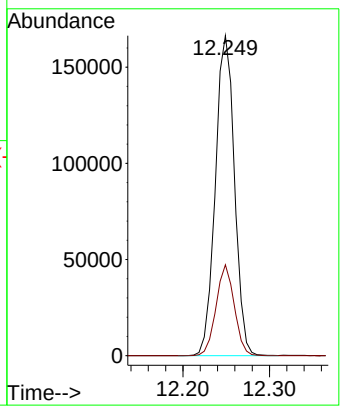


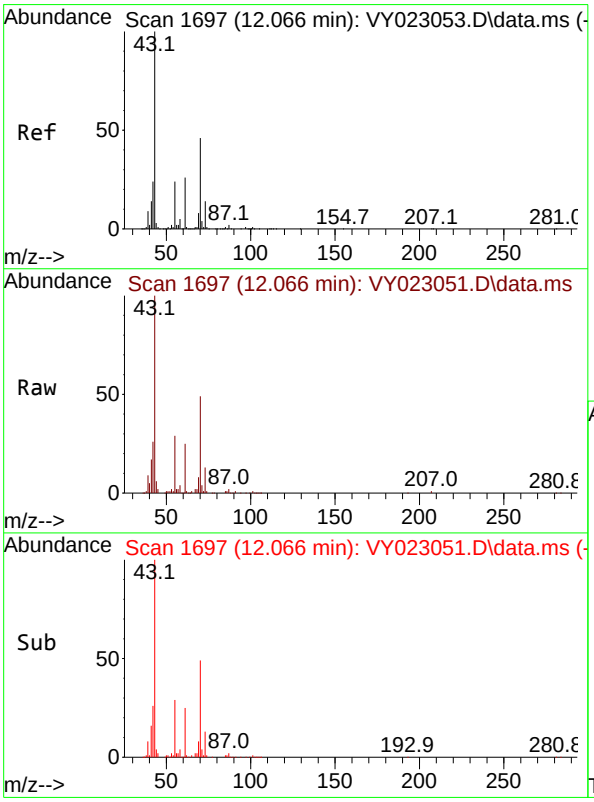
#73
Isopropylbenzene
Concen: 9.871 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 254745

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2

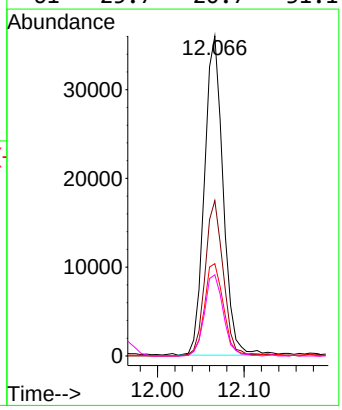


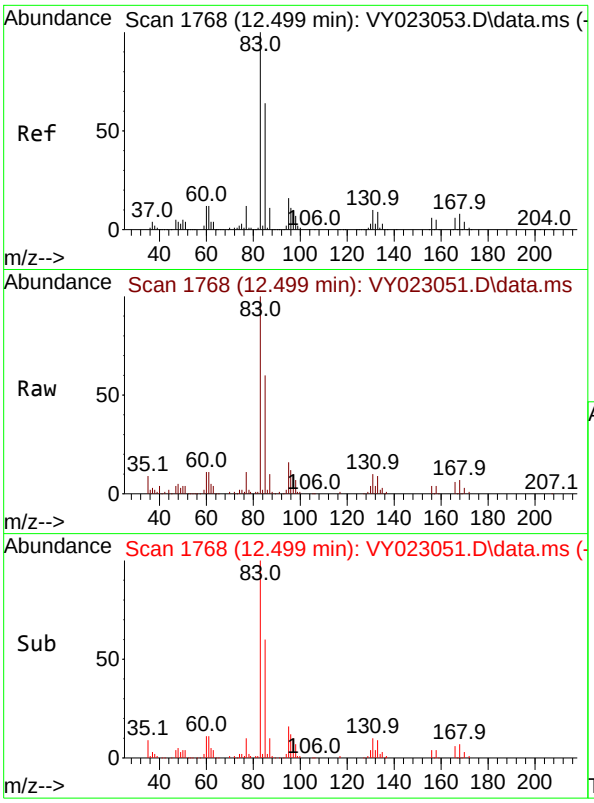


#74
N-amyl acetate
Concen: 9.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 53943

Ion	Ratio	Lower	Upper
43	100		
70	47.0	37.5	56.3
55	30.2	20.7	31.1
61	25.7	20.7	31.1



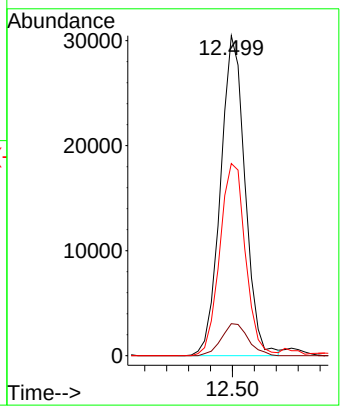


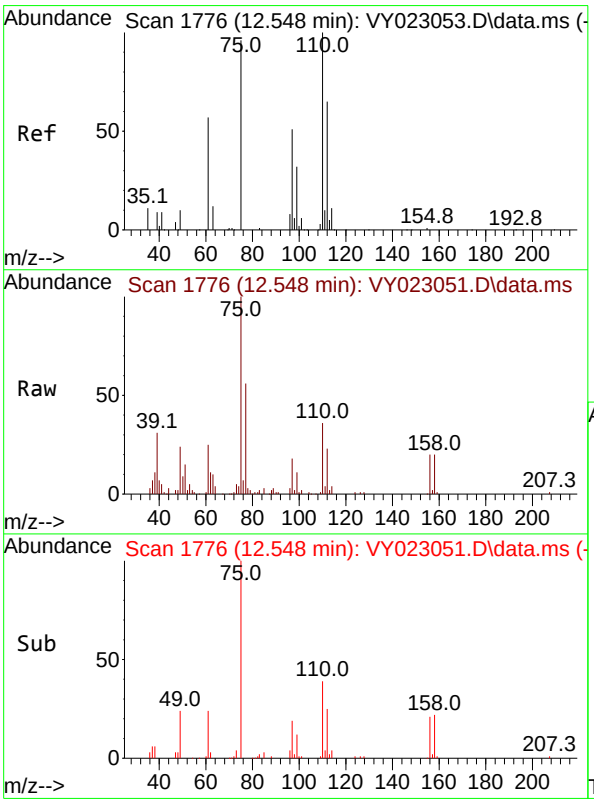
#75
1,1,2,2-Tetrachloroethane
Concen: 10.735 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 47304

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.1	15.3
85	62.9	31.8	95.3

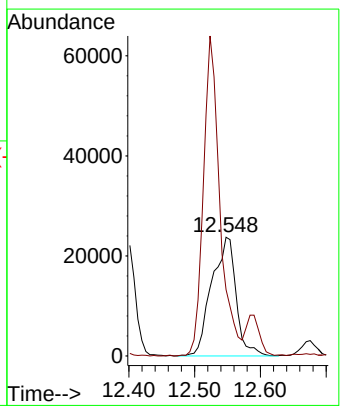


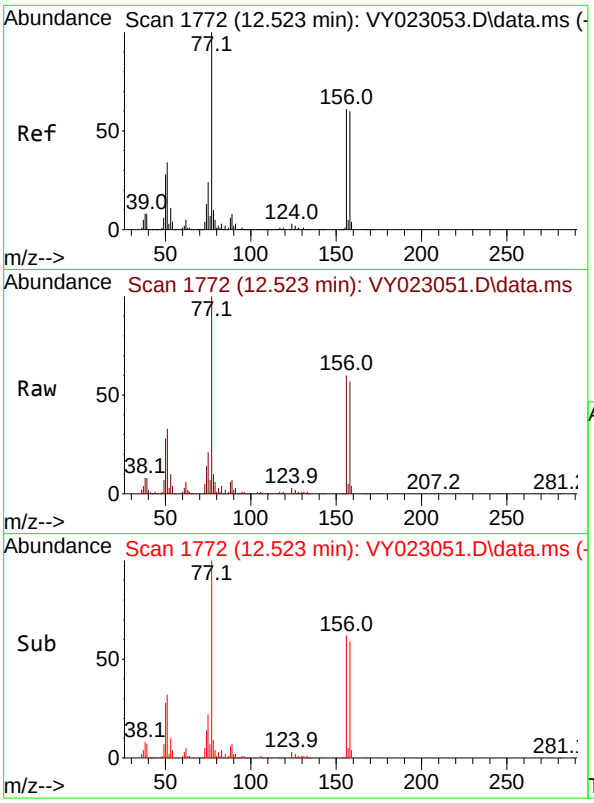


#76
1,2,3-Trichloropropane
Concen: 17.357 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 61290

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



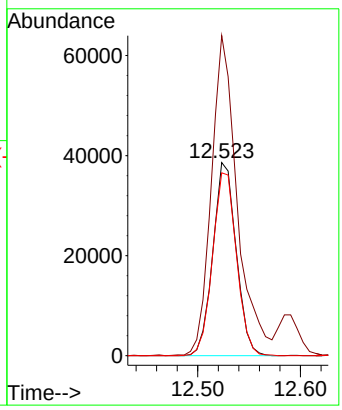


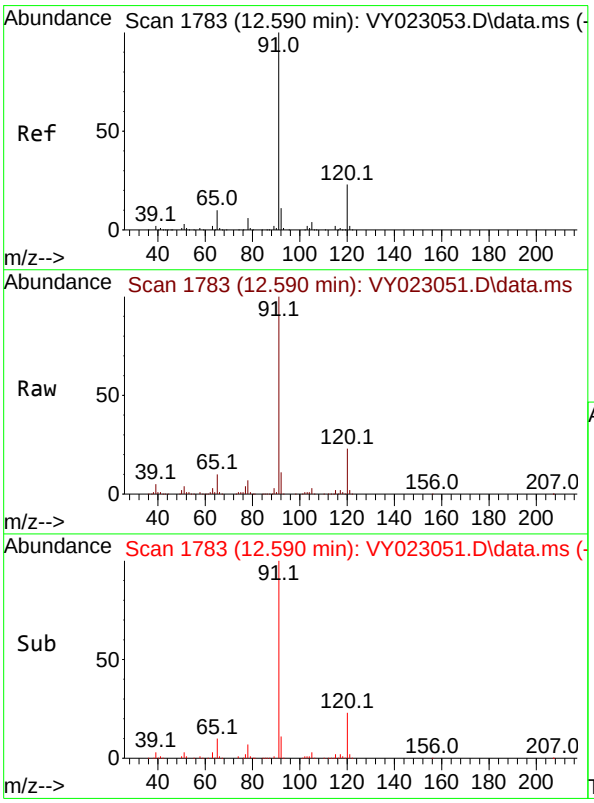
#77
Bromobenzene
Concen: 9.864 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 60728

Ion	Ratio	Lower	Upper
156	100		
77	184.8	88.1	264.4
158	97.2	48.0	144.0

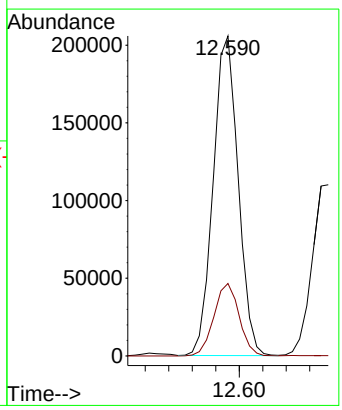


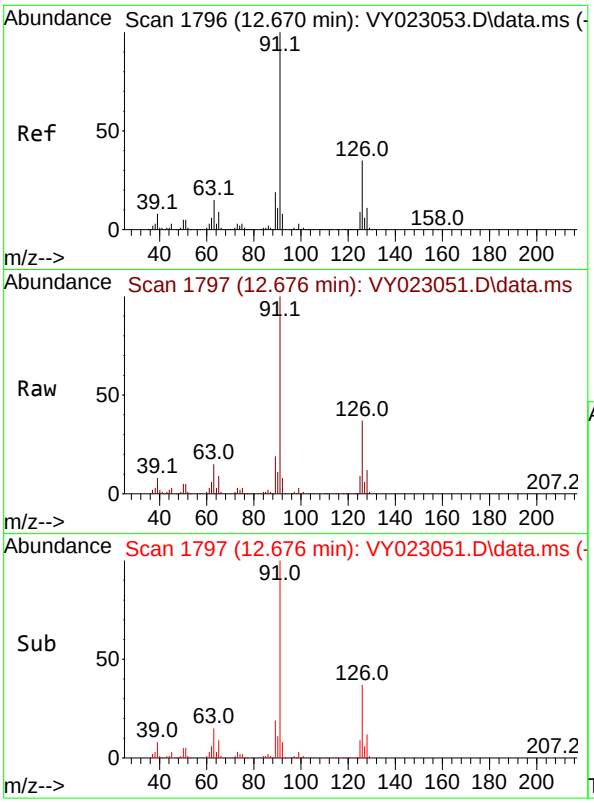


#78
n-propylbenzene
Concen: 9.876 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 303440

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



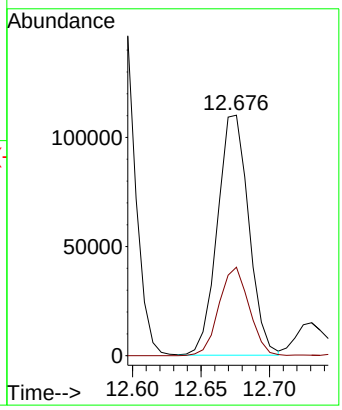


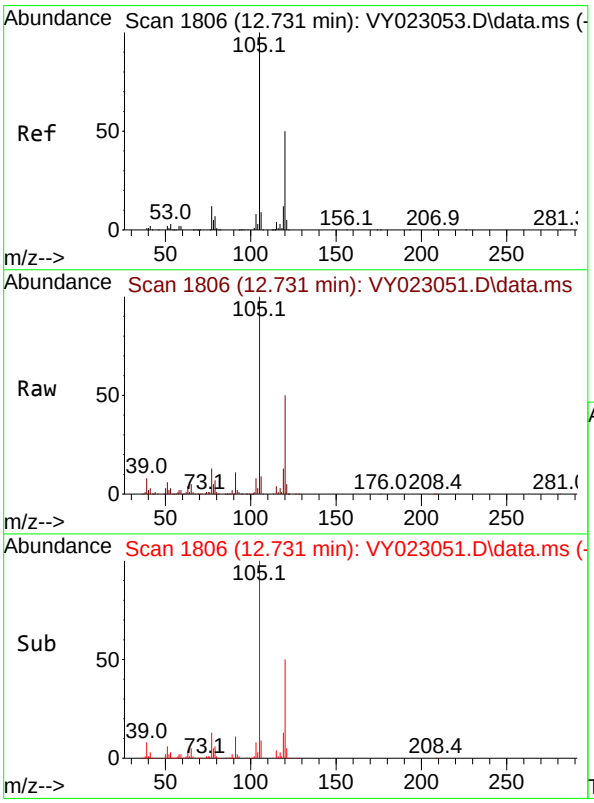
#79
2-Chlorotoluene
Concen: 9.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 175364

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.4	52.3

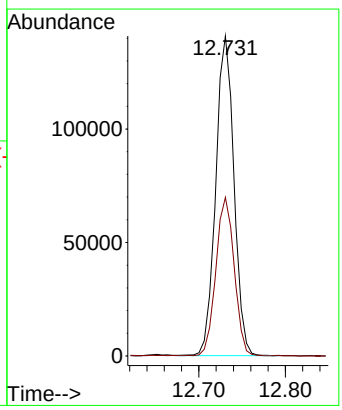


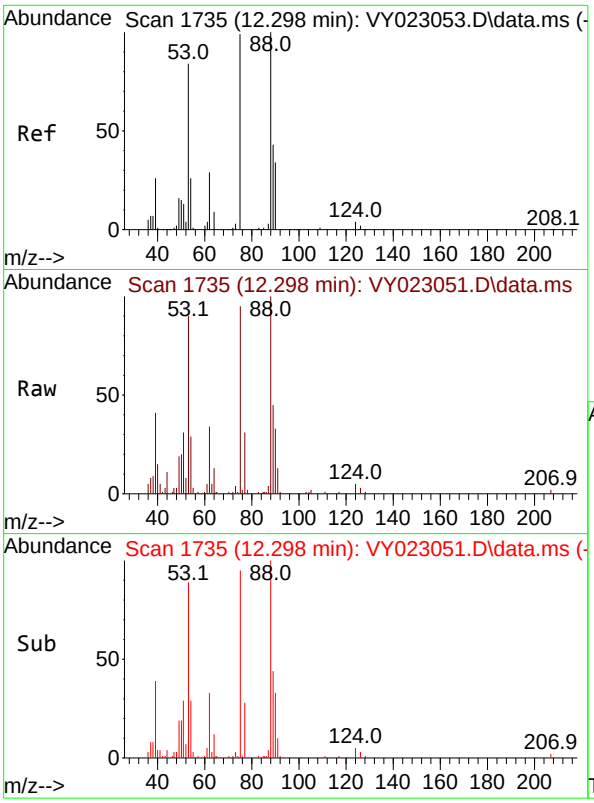


#80
1,3,5-Trimethylbenzene
Concen: 9.855 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 205544

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.8	74.4



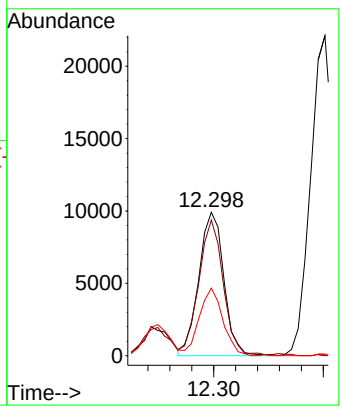


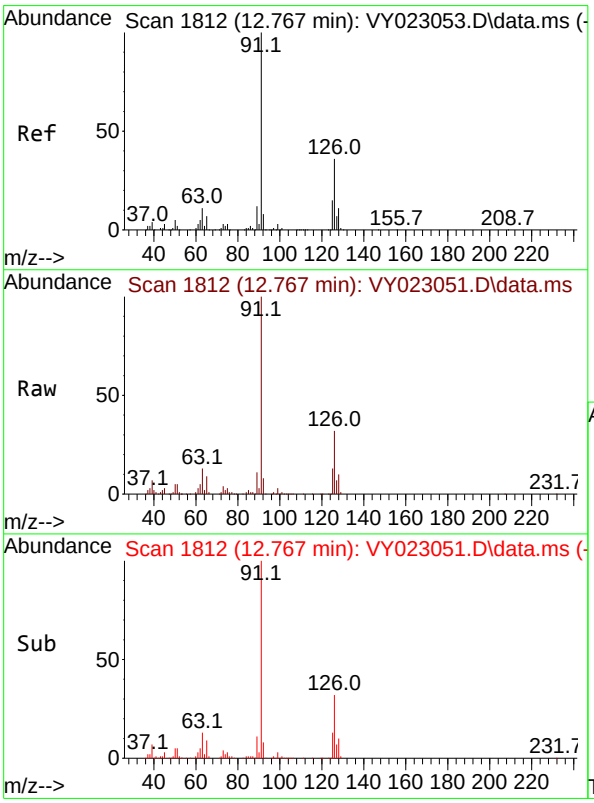
#81
trans-1,4-Dichloro-2-butene
Concen: 10.780 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 15715

Ion	Ratio	Lower	Upper
75	100		
53	91.4	70.8	106.2
89	44.0	38.1	57.1

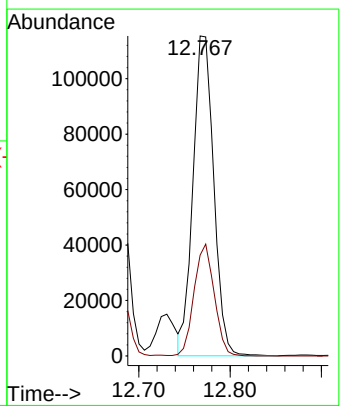


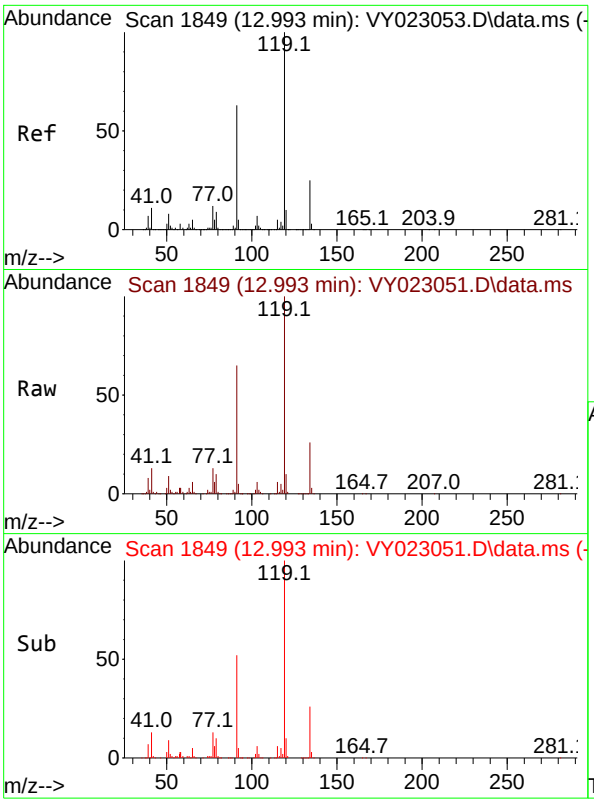


#82
4-Chlorotoluene
Concen: 9.956 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 181812

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0



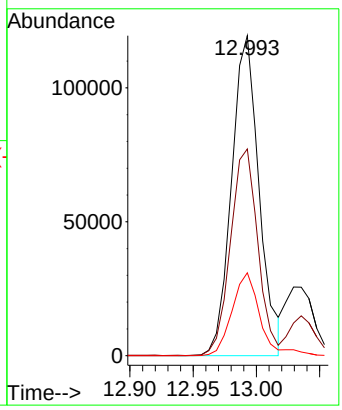


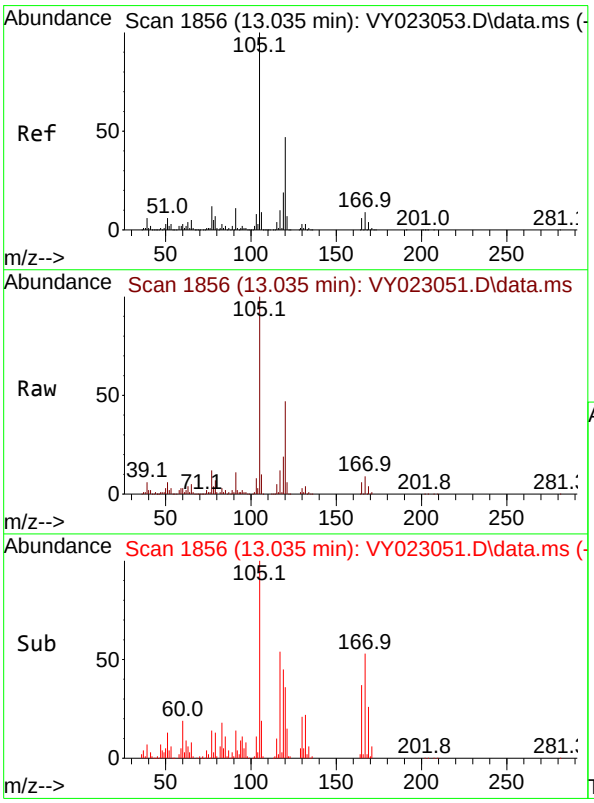
#83
tert-Butylbenzene
Concen: 9.630 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 181408

Ion	Ratio	Lower	Upper
119	100		
91	63.9	31.6	94.8
134	26.4	12.9	38.7

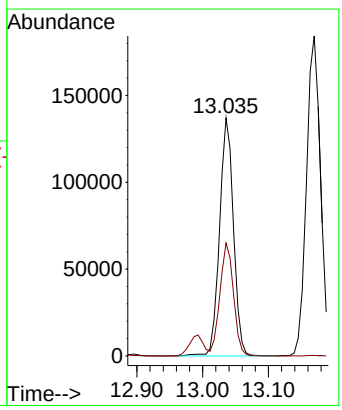


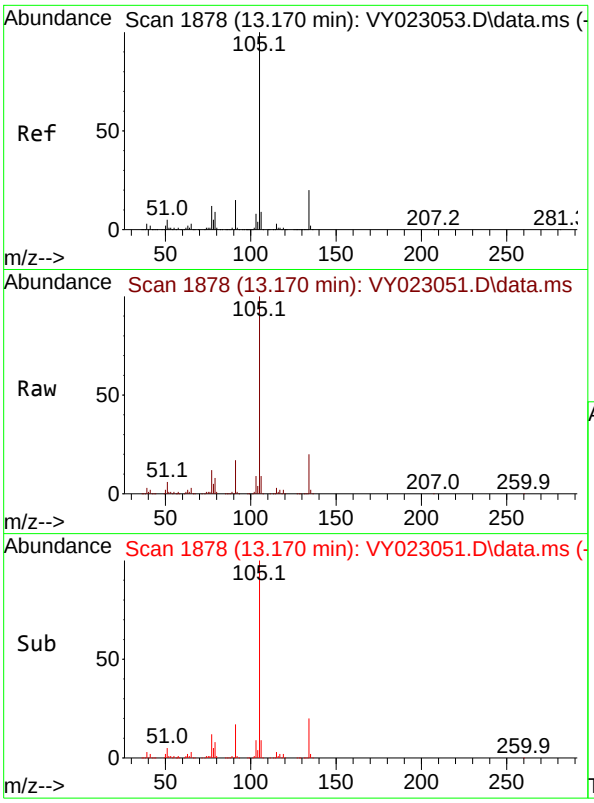


#84
1,2,4-Trimethylbenzene
Concen: 9.720 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 201812

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0



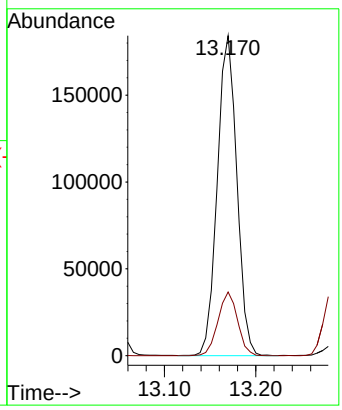


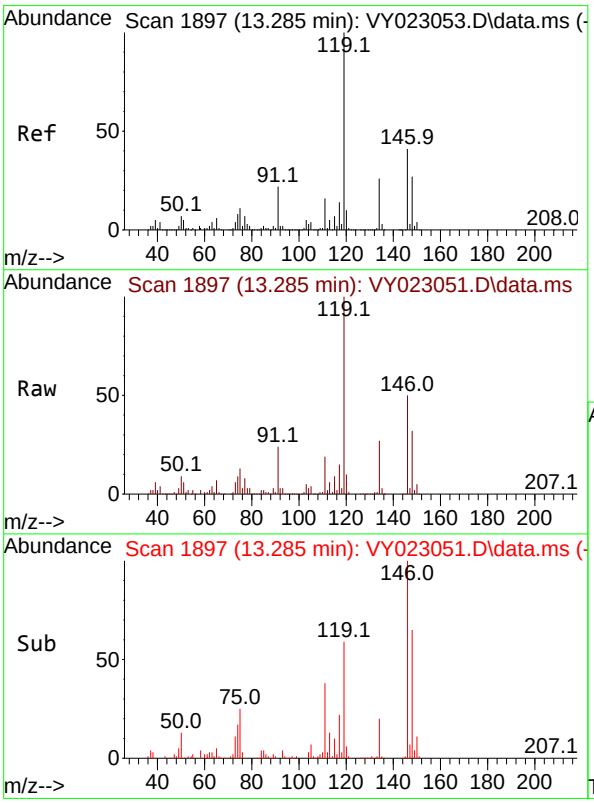
#85
sec-Butylbenzene
Concen: 9.908 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 274178

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4

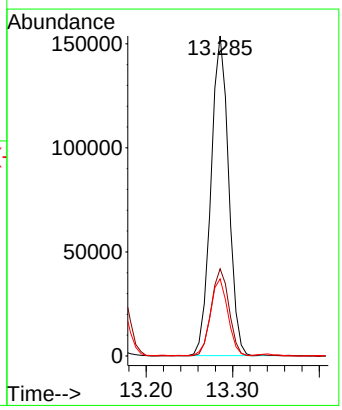


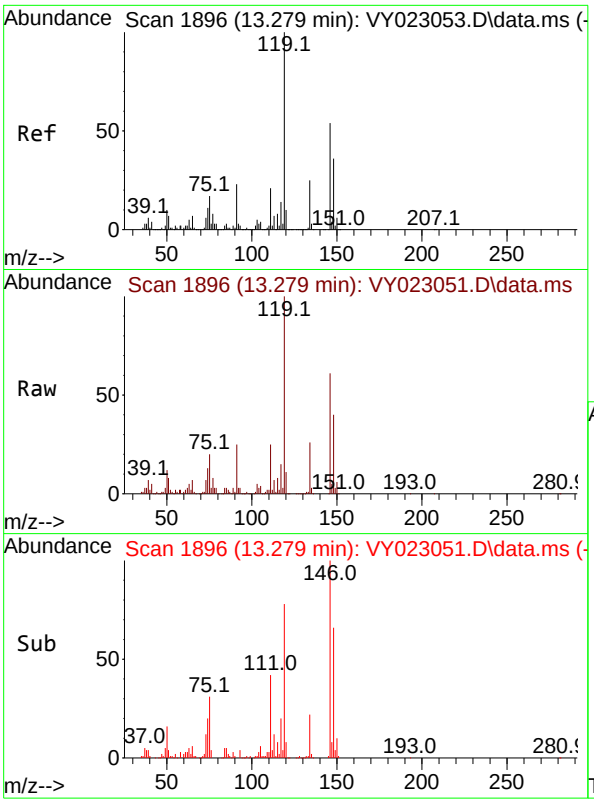


#86
p-Isopropyltoluene
Concen: 9.482 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:119 Resp: 217799

Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.2	39.6
91	23.9	11.3	33.8



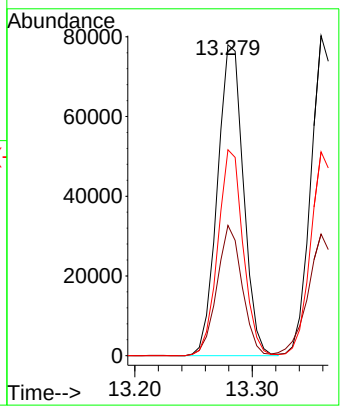


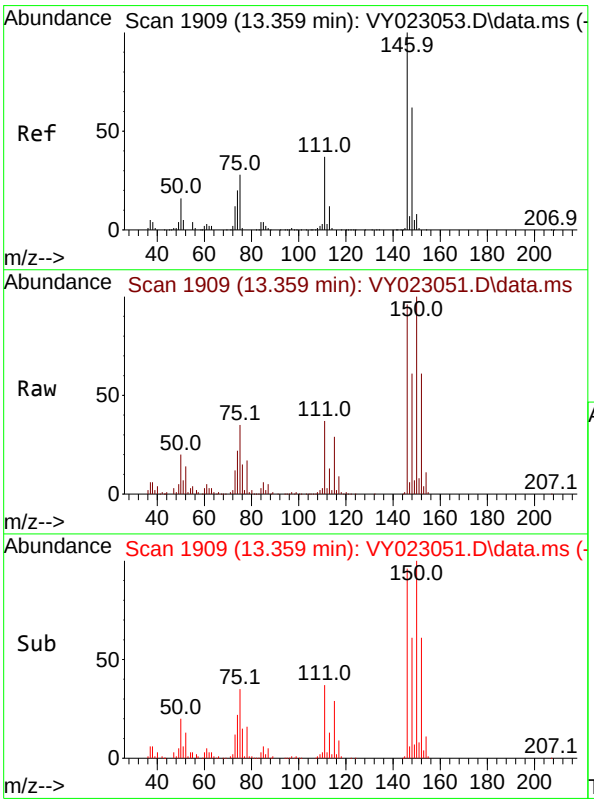
#87
1,3-Dichlorobenzene
Concen: 9.893 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 120109

Ion	Ratio	Lower	Upper
146	100		
111	40.6	19.6	58.7
148	64.3	32.5	97.5

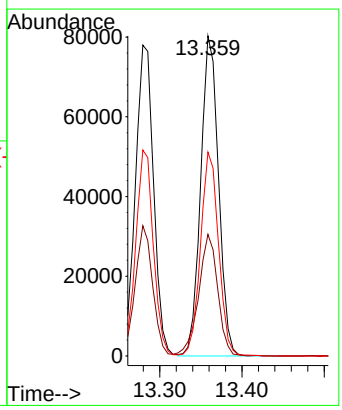


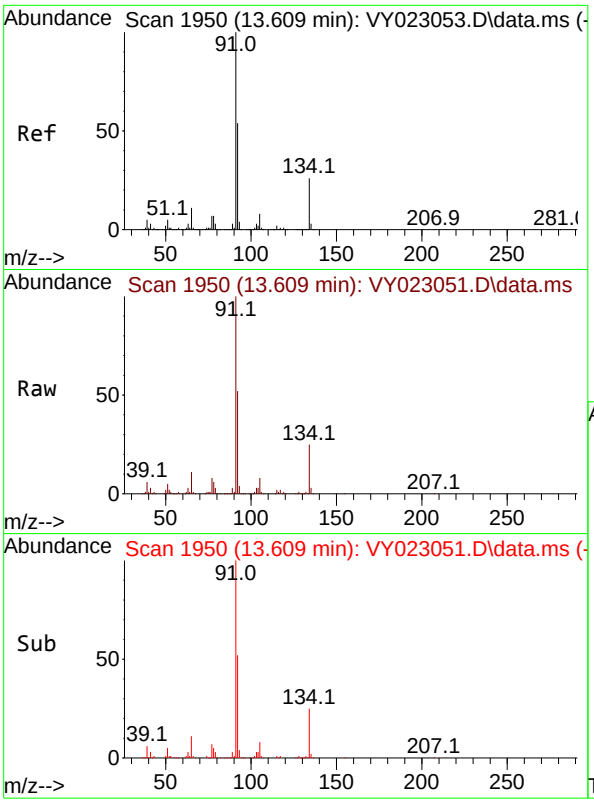


#88
1,4-Dichlorobenzene
Concen: 10.060 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 121160

Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.1	57.1
148	64.3	31.6	94.7



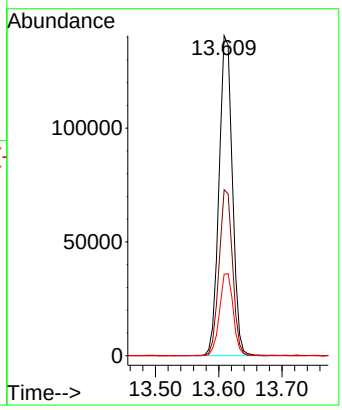


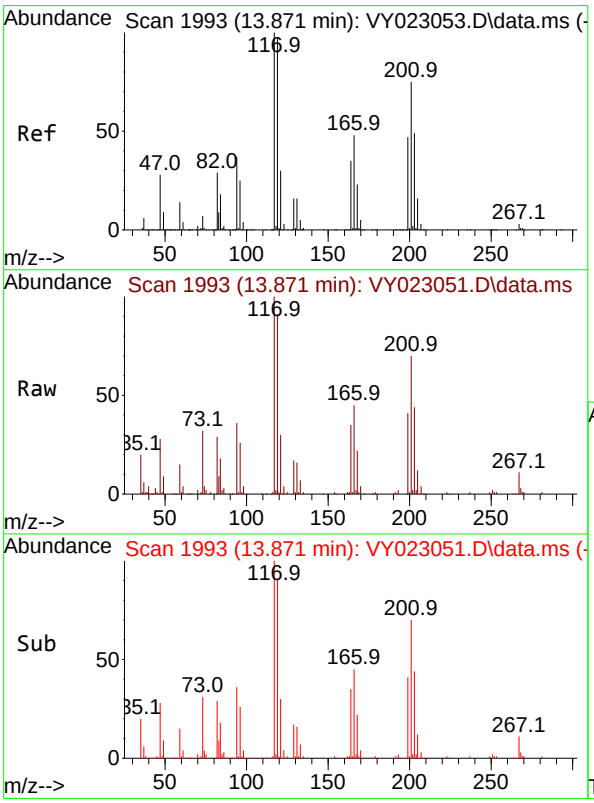
#89
n-Butylbenzene
Concen: 9.737 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 205420

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	26.1	13.2	39.5

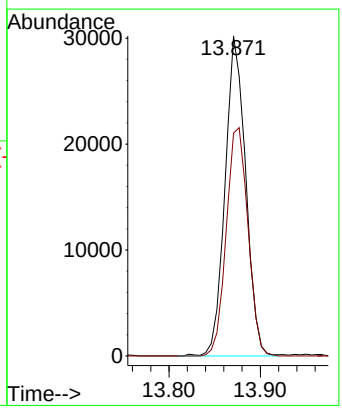


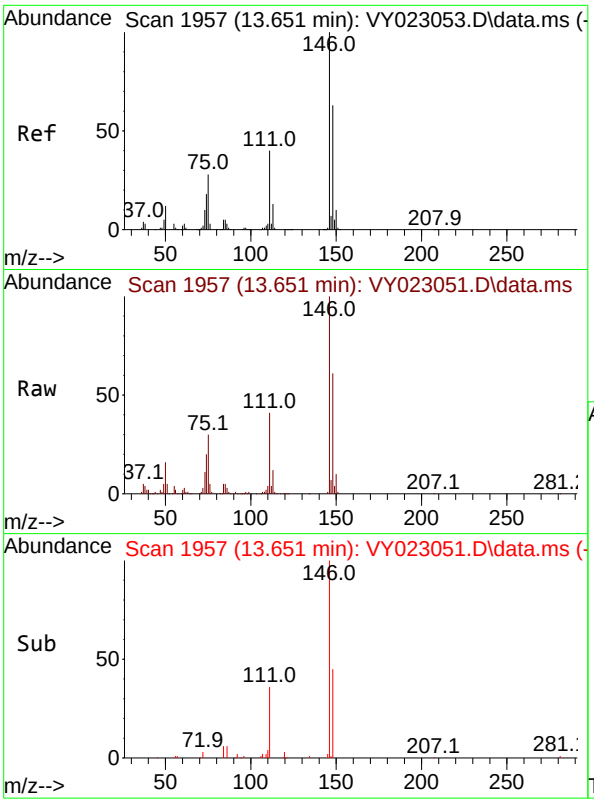


#90
Hexachloroethane
Concen: 10.071 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 47353

Ion	Ratio	Lower	Upper
117	100		
201	75.3	38.4	115.1



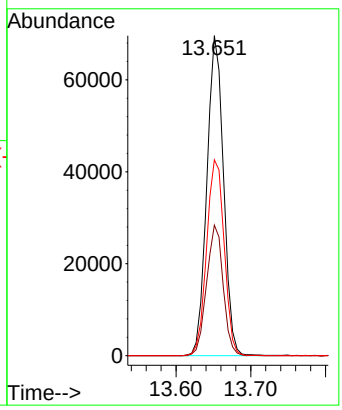


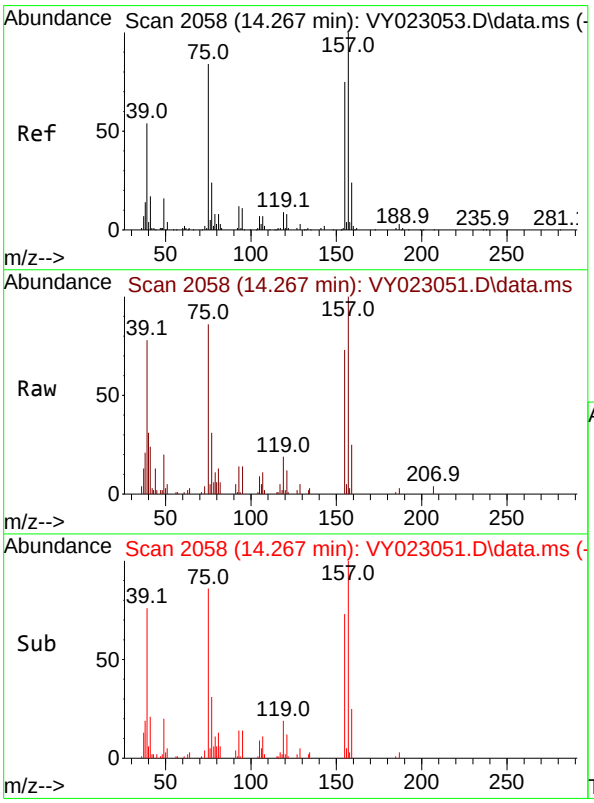
#91
1,2-Dichlorobenzene
Concen: 10.110 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 107656

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	64.5	32.2	96.6

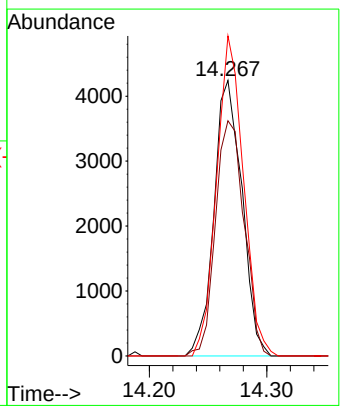


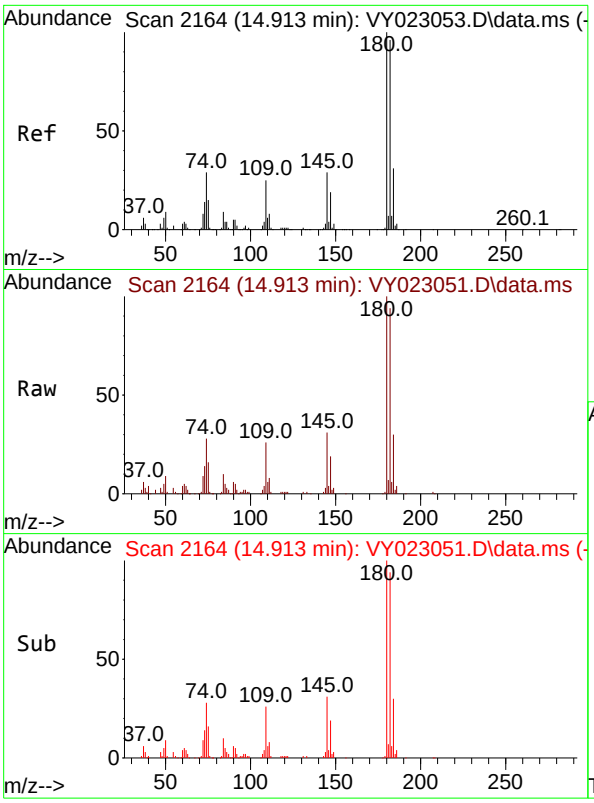


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.250 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 7032

Ion	Ratio	Lower	Upper
75	100		
155	87.6	43.9	131.6
157	111.5	57.2	171.6



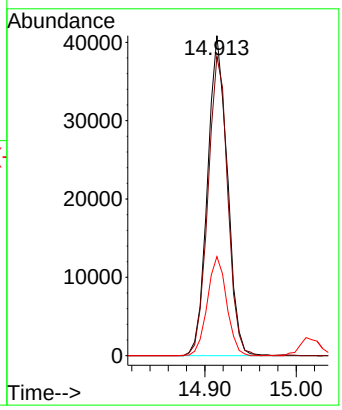


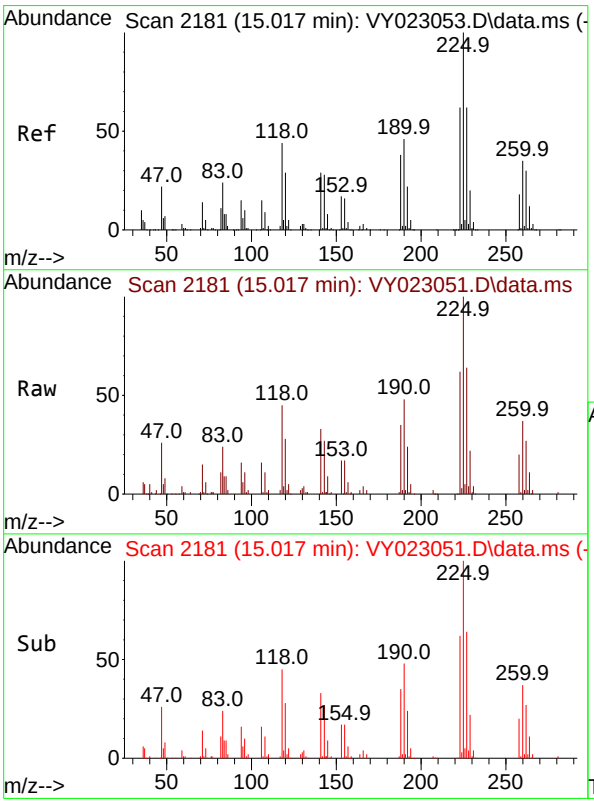
#93
1,2,4-Trichlorobenzene
Concen: 9.739 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 61323

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.8	140.4
145	30.2	14.4	43.4

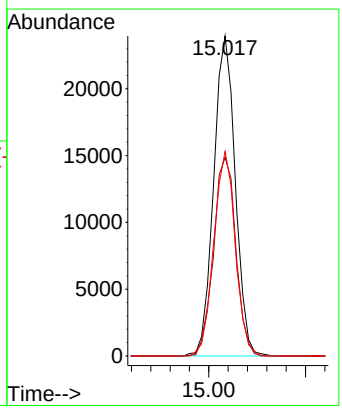


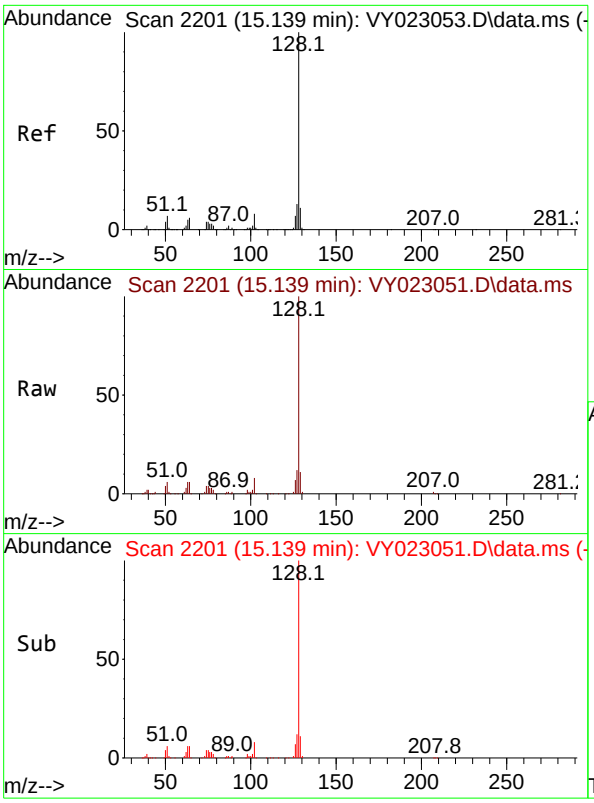


#94
Hexachlorobutadiene
Concen: 10.003 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:225 Resp: 37011

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.3	93.8
227	63.5	31.5	94.5



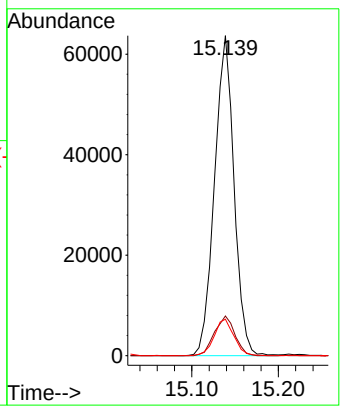


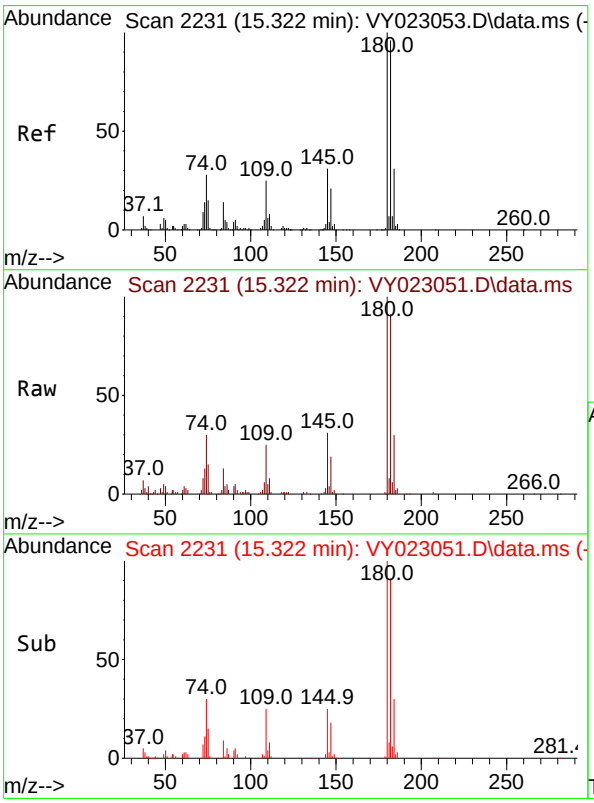
#95
Naphthalene
Concen: 9.293 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 99780

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.6	9.0	13.4

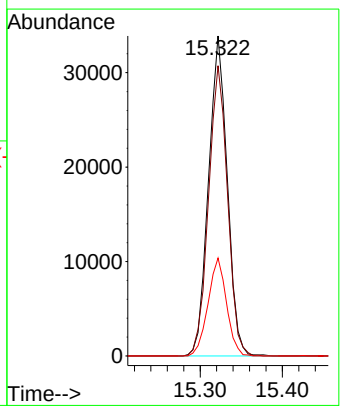




#96
1,2,3-Trichlorobenzene
Concen: 9.883 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 53626

Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.9	143.7
145	30.2	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	537748	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	848953	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	745484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	370932	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	103755	20.244	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	40.480%#		
35) Dibromofluoromethane	7.628	113	102068	20.093	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.180%#		
50) Toluene-d8	10.103	98	398394	20.075	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	40.160%#		
62) 4-Bromofluorobenzene	12.402	95	124467	19.503	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	39.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	98926	22.537	ug/l	98
3) Chloromethane	2.068	50	158310	22.268	ug/l	99
4) Vinyl Chloride	2.202	62	188307	21.427	ug/l	99
5) Bromomethane	2.586	94	140517	21.410	ug/l	99
6) Chloroethane	2.726	64	122310	20.934	ug/l	99
7) Trichlorofluoromethane	3.050	101	225373	21.090	ug/l	99
8) Diethyl Ether	3.452	74	58245	20.602	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.805	101	112116	21.267	ug/l	99
10) Methyl Iodide	3.994	142	115879	20.370	ug/l	99
11) Tert butyl alcohol	4.860	59	35192	100.214	ug/l	98
12) 1,1-Dichloroethene	3.781	96	107992	20.840	ug/l	99
13) Acrolein	3.653	56	54065	105.126	ug/l	100
14) Allyl chloride	4.379	41	155709	20.421	ug/l	97
15) Acrylonitrile	5.055	53	120151	104.535	ug/l	97
16) Acetone	3.866	43	113468	102.193	ug/l	96
17) Carbon Disulfide	4.098	76	357484	21.157	ug/l	98
18) Methyl Acetate	4.379	43	69853	21.141	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	278863	20.767	ug/l	99
20) Methylene Chloride	4.610	84	130416	21.069	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	120321	20.661	ug/l	96
22) Diisopropyl ether	6.012	45	346195	20.894	ug/l	95
23) Vinyl Acetate	5.951	43	941364	102.748	ug/l	97
24) 1,1-Dichloroethane	5.909	63	211558	20.884	ug/l	98
25) 2-Butanone	6.890	43	153363	101.559	ug/l	100
26) 2,2-Dichloropropane	6.878	77	181528	20.767	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	138775	20.613	ug/l	99
28) Bromochloromethane	7.244	49	84540	21.035	ug/l	99
29) Tetrahydrofuran	7.262	42	95795	102.341	ug/l	99
30) Chloroform	7.415	83	215585	20.635	ug/l	98
31) Cyclohexane	7.701	56	194671	20.393	ug/l	96
32) 1,1,1-Trichloroethane	7.610	97	193268	20.848	ug/l	99
36) 1,1-Dichloropropene	7.835	75	156617	20.746	ug/l	98
37) Ethyl Acetate	6.982	43	66420	20.944	ug/l	100
38) Carbon Tetrachloride	7.817	117	171344	20.897	ug/l	98
39) Methylcyclohexane	9.103	83	205594	20.680	ug/l	98
40) Benzene	8.079	78	485631	20.871	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.256	41	93052	50.787	ug/l	#	32
42) 1,2-Dichloroethane	8.152	62	126111	20.839	ug/l		100
43) Isopropyl Acetate	8.195	43	131854	20.571	ug/l		98
44) Trichloroethene	8.859	130	126772	21.083	ug/l		98
45) 1,2-Dichloropropane	9.134	63	110699	20.677	ug/l		99
46) Dibromomethane	9.225	93	63410	20.635	ug/l		98
47) Bromodichloromethane	9.420	83	165954	20.988	ug/l		96
48) Methyl methacrylate	9.219	41	64120	20.905	ug/l		98
49) 1,4-Dioxane	9.225	88	14826	411.480	ug/l		98
51) 4-Methyl-2-Pentanone	9.993	43	339298	102.622	ug/l		100
52) Toluene	10.164	92	306193	20.719	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	147696	20.627	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	174243	20.580	ug/l		96
55) 1,1,2-Trichloroethane	10.566	97	86022	20.920	ug/l		99
56) Ethyl methacrylate	10.432	69	105816	20.111	ug/l		99
57) 1,3-Dichloropropane	10.713	76	145621	20.882	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	244340	98.450	ug/l		99
59) 2-Hexanone	10.755	43	231872	102.992	ug/l		99
60) Dibromochloromethane	10.908	129	110810	20.424	ug/l		99
61) 1,2-Dibromoethane	11.012	107	80549	20.842	ug/l		97
64) Tetrachloroethene	10.640	164	141609	21.273	ug/l		99
65) Chlorobenzene	11.438	112	332700	20.690	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	112677	20.647	ug/l		99
67) Ethyl Benzene	11.511	91	564855	20.412	ug/l		99
68) m/p-Xylenes	11.621	106	444361	41.115	ug/l		98
69) o-Xylene	11.950	106	207639	20.513	ug/l		99
70) Styrene	11.963	104	339891	20.532	ug/l		99
71) Bromoform	12.127	173	64275	20.151	ug/l	#	98
73) Isopropylbenzene	12.249	105	534421	20.413	ug/l		100
74) N-amyl acetate	12.066	43	112297	20.227	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	89782	20.085	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	122494	34.195	ug/l	#	100
77) Bromobenzene	12.523	156	128501	20.574	ug/l		99
78) n-propylbenzene	12.590	91	640528	20.550	ug/l		99
79) 2-Chlorotoluene	12.670	91	365577	20.471	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	435074	20.563	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	30153	20.389	ug/l		97
82) 4-Chlorotoluene	12.773	91	385755	20.822	ug/l		99
83) tert-Butylbenzene	12.993	119	389621	20.389	ug/l		100
84) 1,2,4-Trimethylbenzene	13.036	105	438392	20.814	ug/l		98
85) sec-Butylbenzene	13.170	105	575804	20.512	ug/l		100
86) p-Isopropyltoluene	13.285	119	480937	20.640	ug/l		100
87) 1,3-Dichlorobenzene	13.279	146	252452	20.497	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	249280	20.403	ug/l		99
89) n-Butylbenzene	13.609	91	440963	20.605	ug/l		99
90) Hexachloroethane	13.871	117	96478	20.226	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	222000	20.552	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	13973	20.076	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	130718	20.464	ug/l		98
94) Hexachlorobutadiene	15.017	225	77511	20.650	ug/l		99
95) Naphthalene	15.139	128	216923	19.915	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	111506	20.258	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

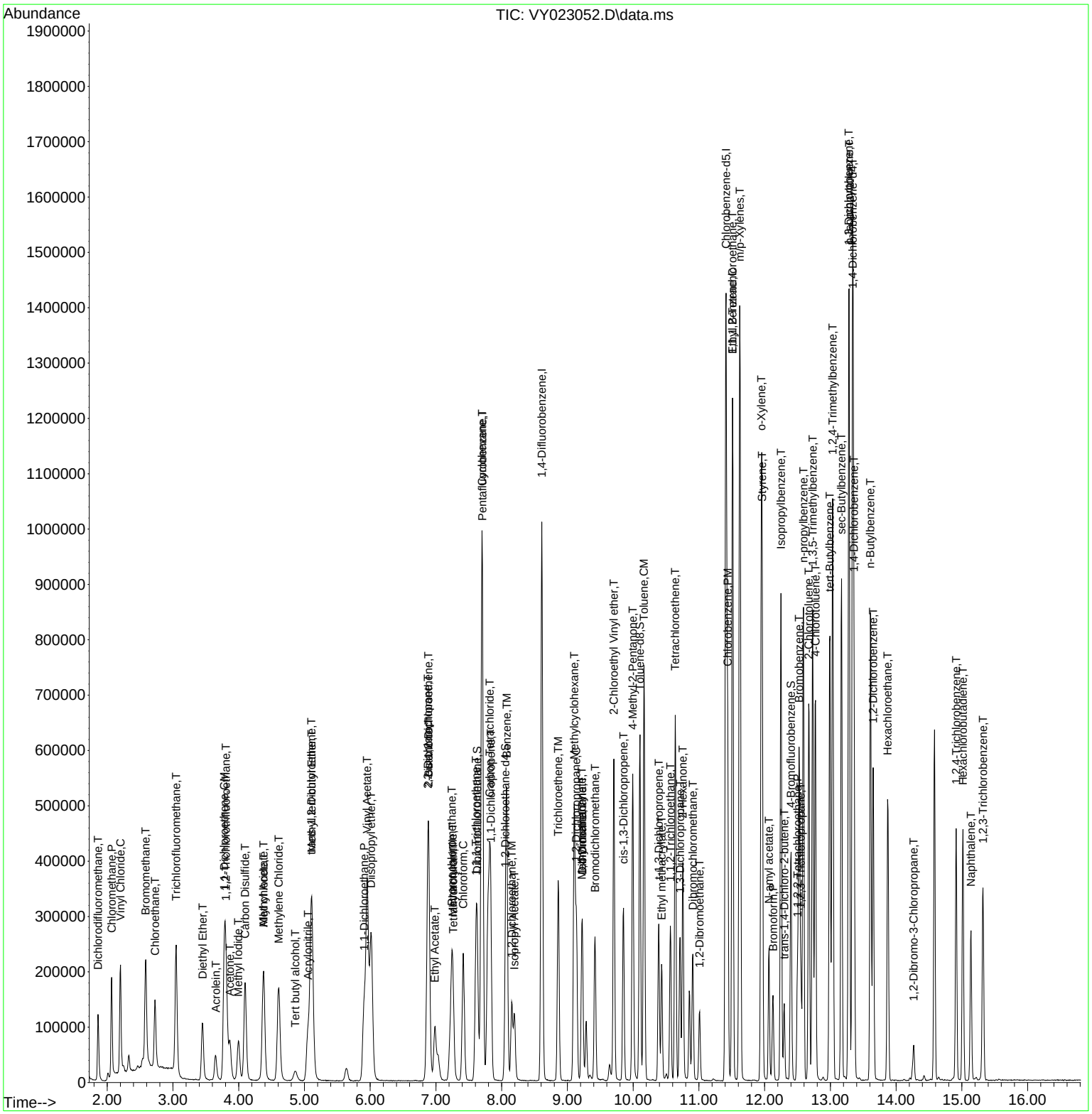
(#) = qualifier out of range (m) = manual integration (+) = signals summed

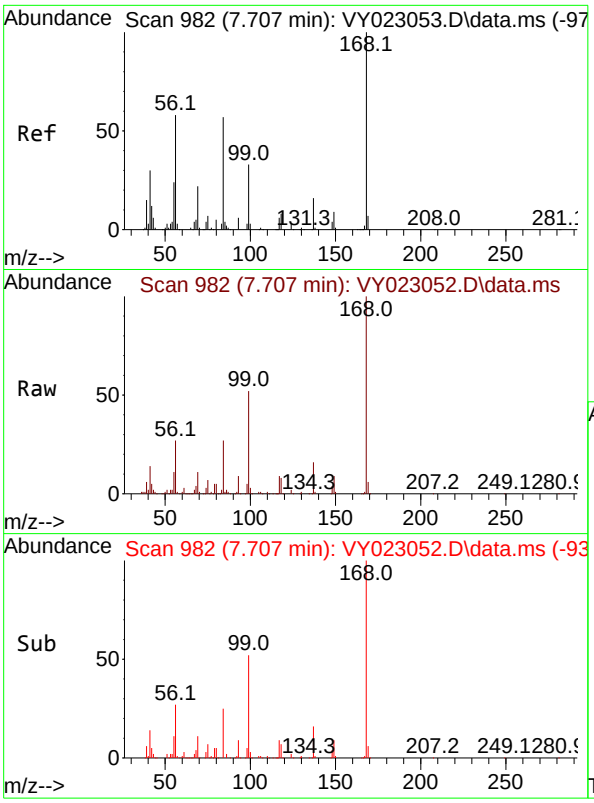
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



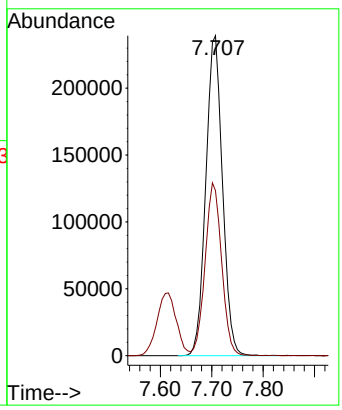


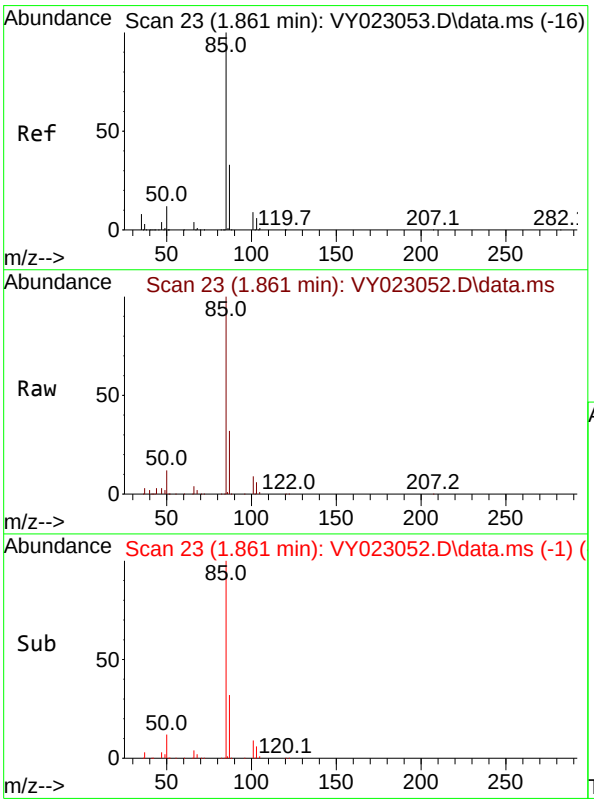
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 537748

Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2

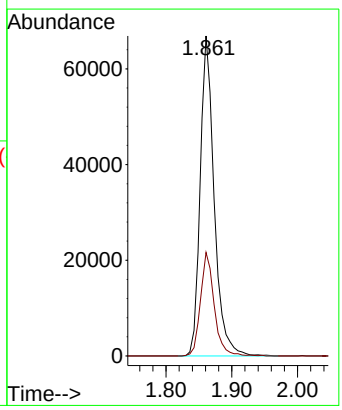


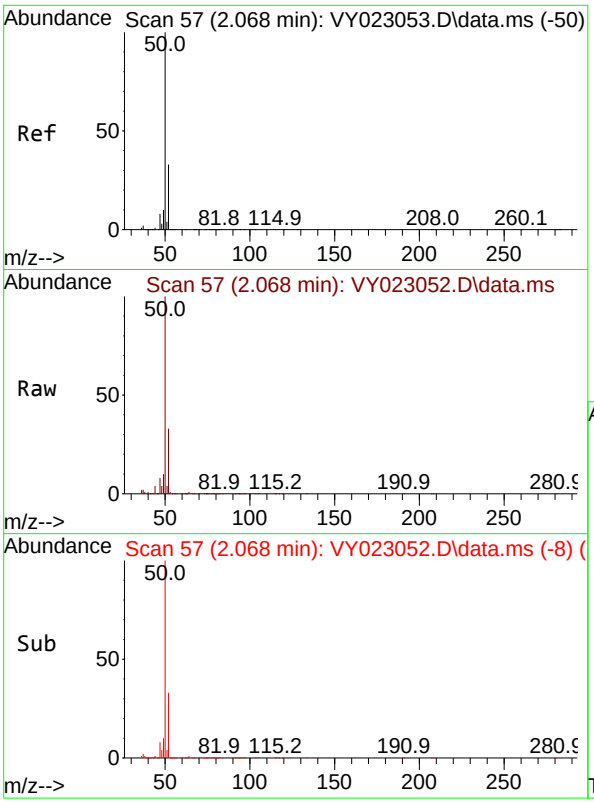


#2
Dichlorodifluoromethane
Concen: 22.537 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 85 Resp: 98926

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



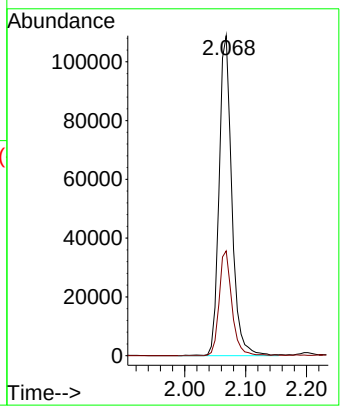


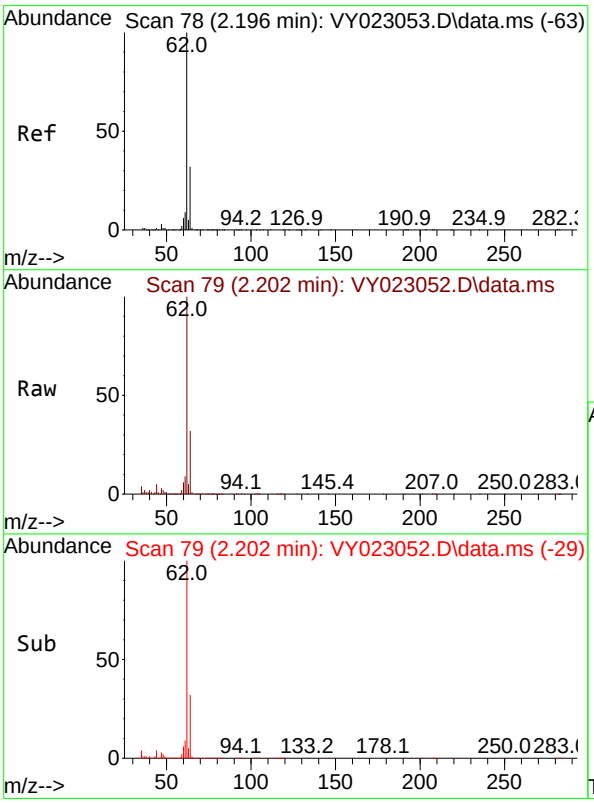
#3
Chloromethane
Concen: 22.268 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 158310

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.7	40.1

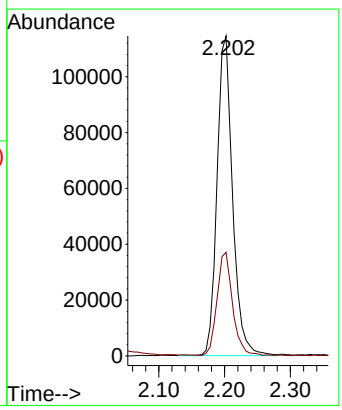


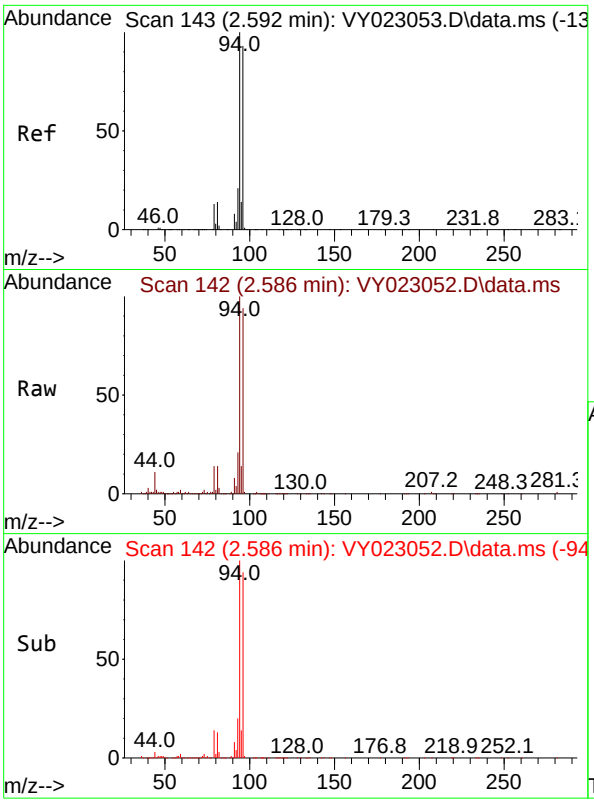


#4
Vinyl Chloride
Concen: 21.427 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 188307

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0



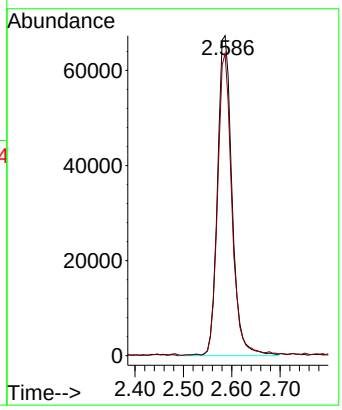


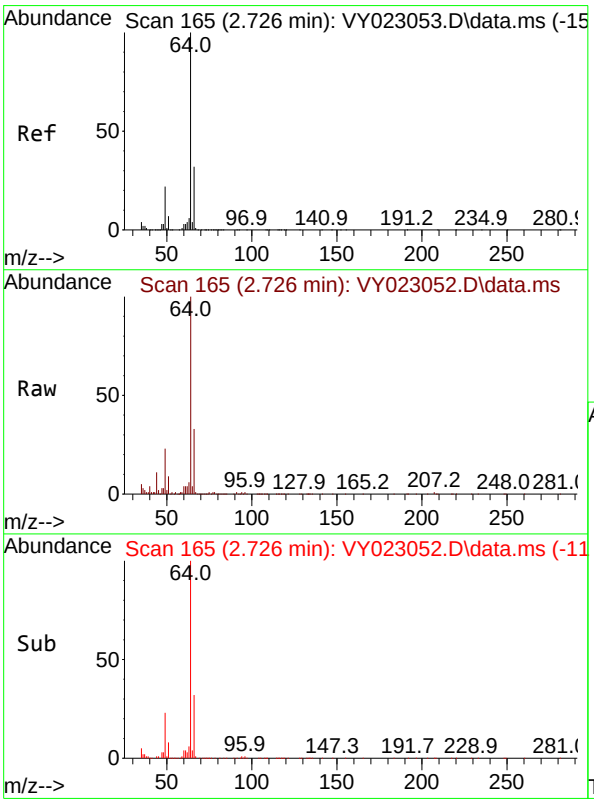
#5
Bromomethane
Concen: 21.410 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 140517

Ion	Ratio	Lower	Upper
94	100		
96	94.1	74.6	112.0

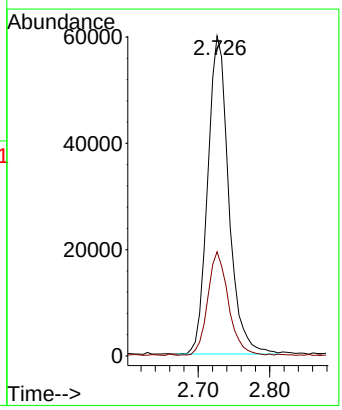


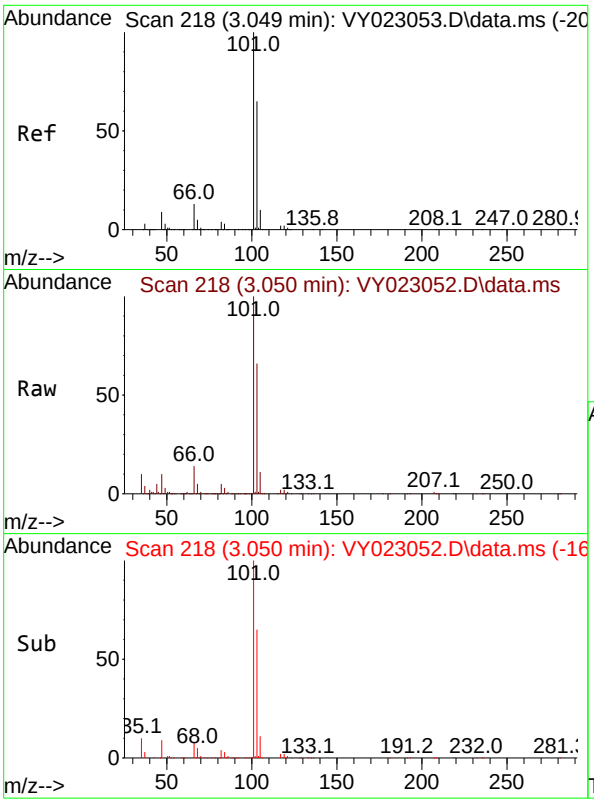


#6
Chloroethane
Concen: 20.934 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 64 Resp: 122310

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.8	38.6



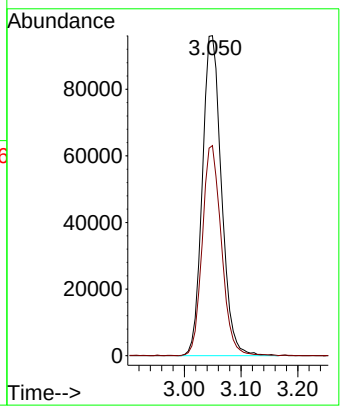


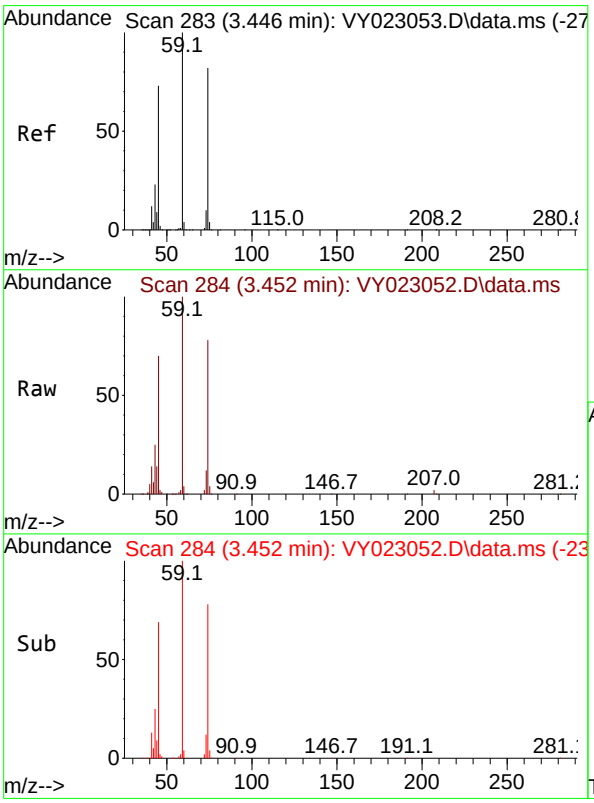
#7
Trichlorofluoromethane
Concen: 21.090 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 225373

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.9	77.9

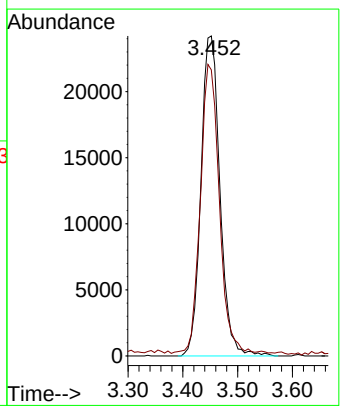


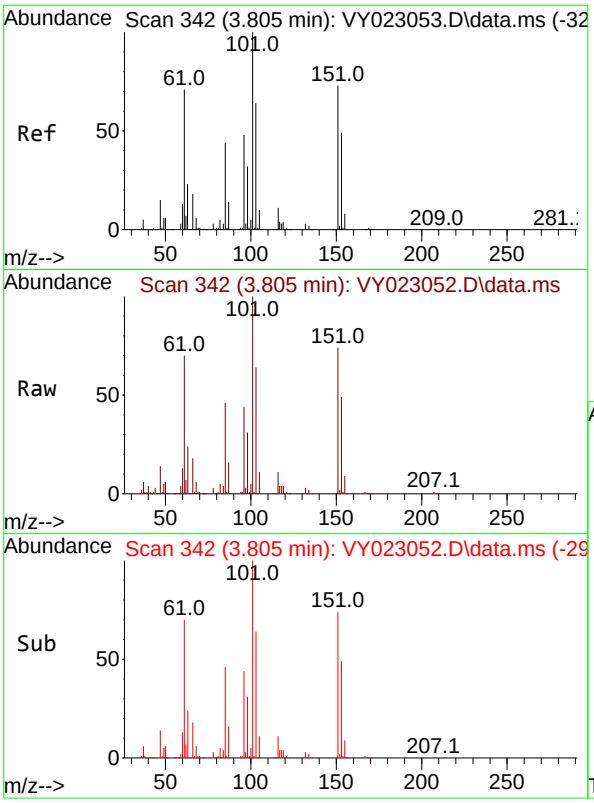


#8
Diethyl Ether
Concen: 20.602 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 74 Resp: 58245

Ion	Ratio	Lower	Upper
74	100		
45	89.8	44.4	133.2



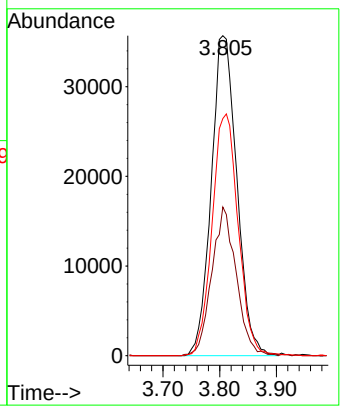


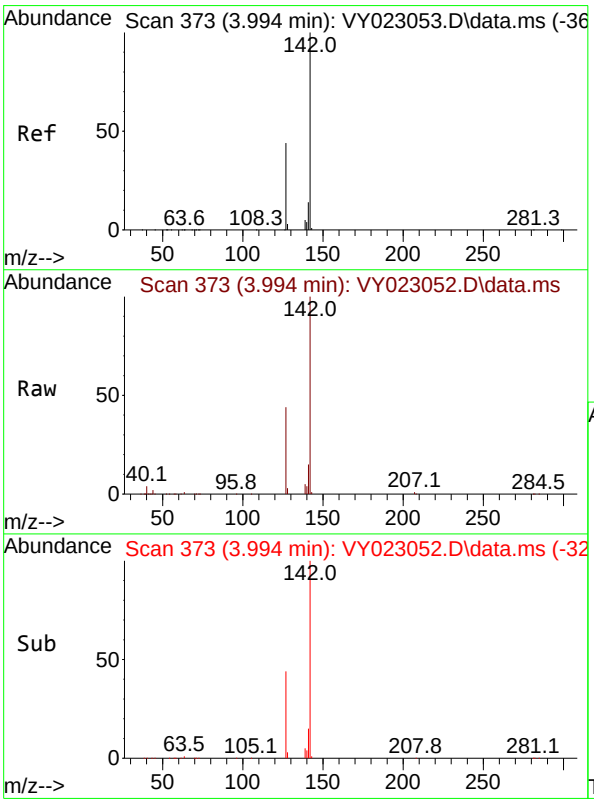
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.267 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 112116

Ion	Ratio	Lower	Upper
101	100		
85	44.2	36.3	54.5
151	76.8	61.5	92.3

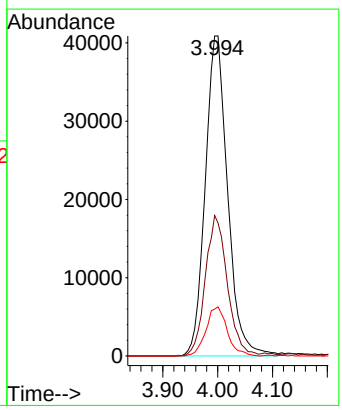


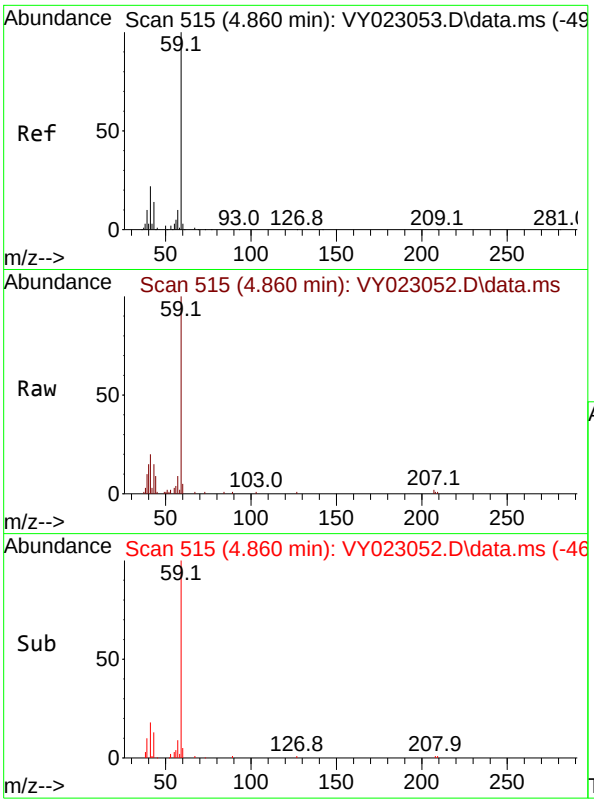


#10
Methyl Iodide
Concen: 20.370 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:142 Resp: 115879

Ion	Ratio	Lower	Upper
142	100		
127	43.0	34.9	52.3
141	14.6	11.3	16.9



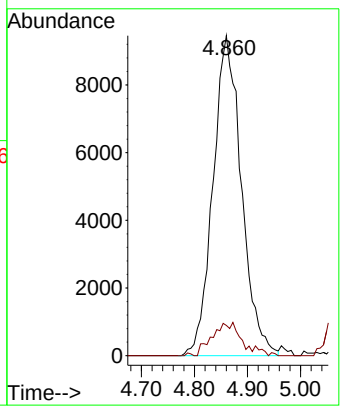


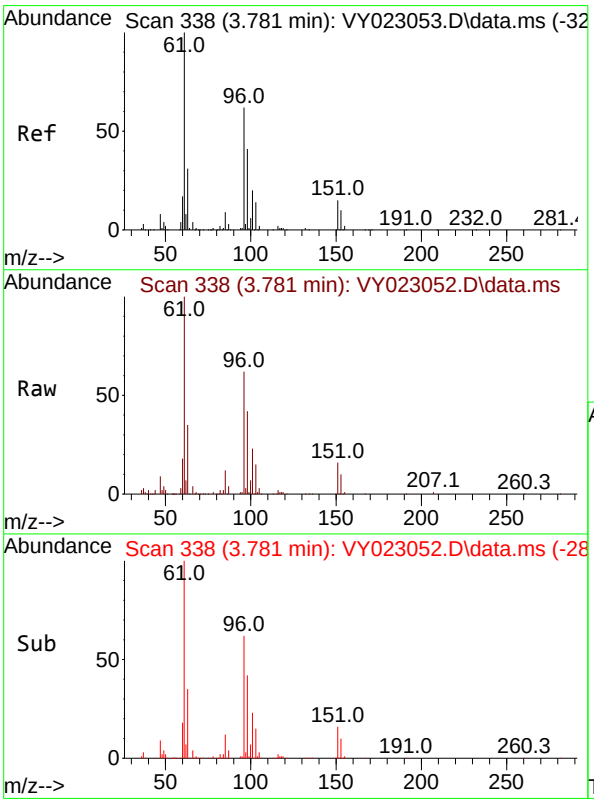
#11
Tert butyl alcohol
Concen: 100.214 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 35192

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.6	13.0

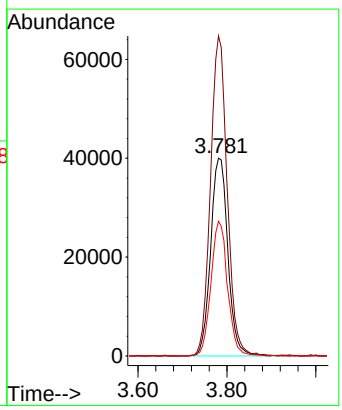


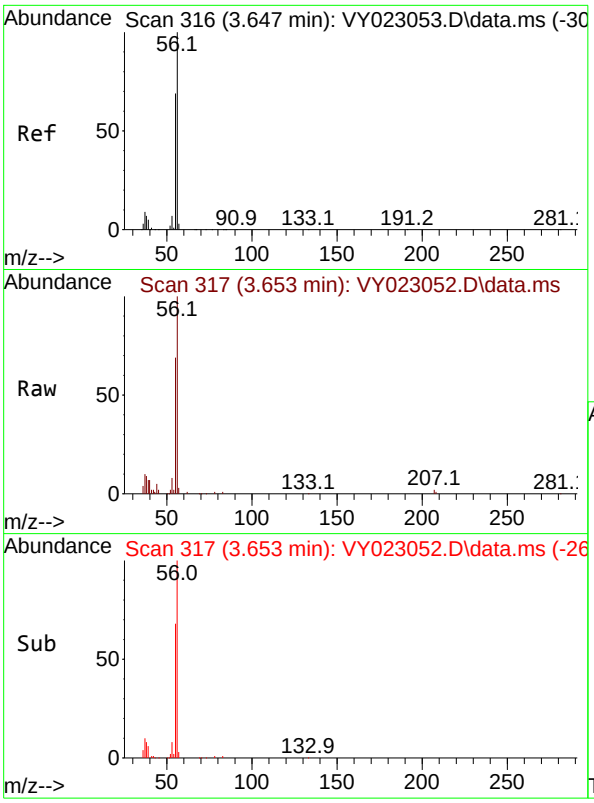


#12
1,1-Dichloroethene
Concen: 20.840 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 107992

Ion	Ratio	Lower	Upper
96	100		
61	161.8	129.4	194.2
98	68.1	52.8	79.2



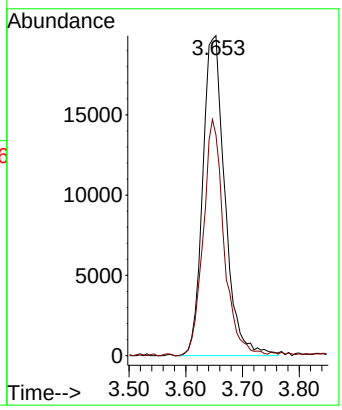


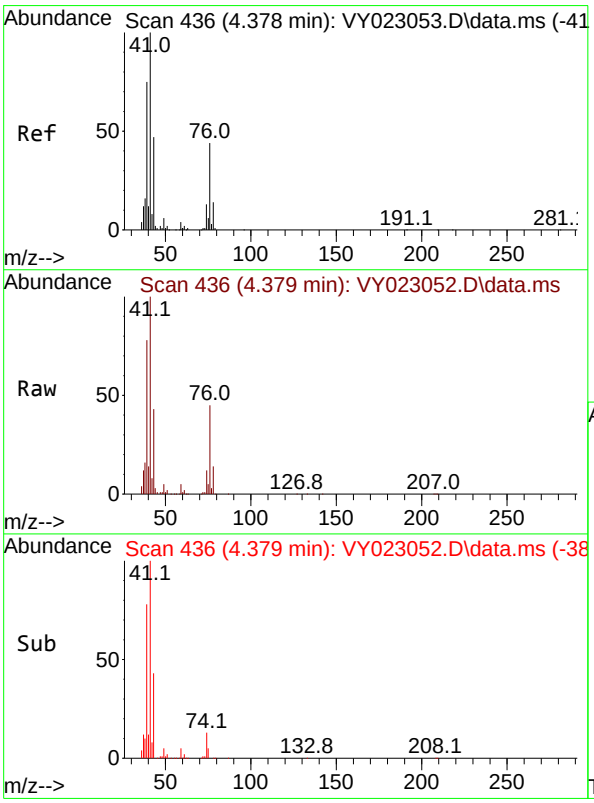
#13
Acrolein
Concen: 105.126 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 54065

Ion	Ratio	Lower	Upper
56	100		
55	69.1	55.2	82.8

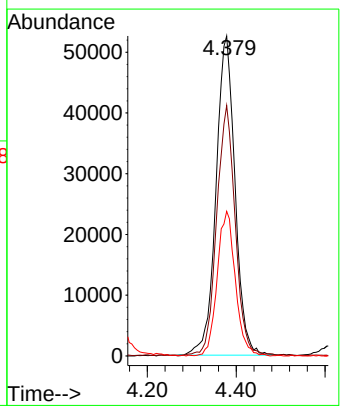


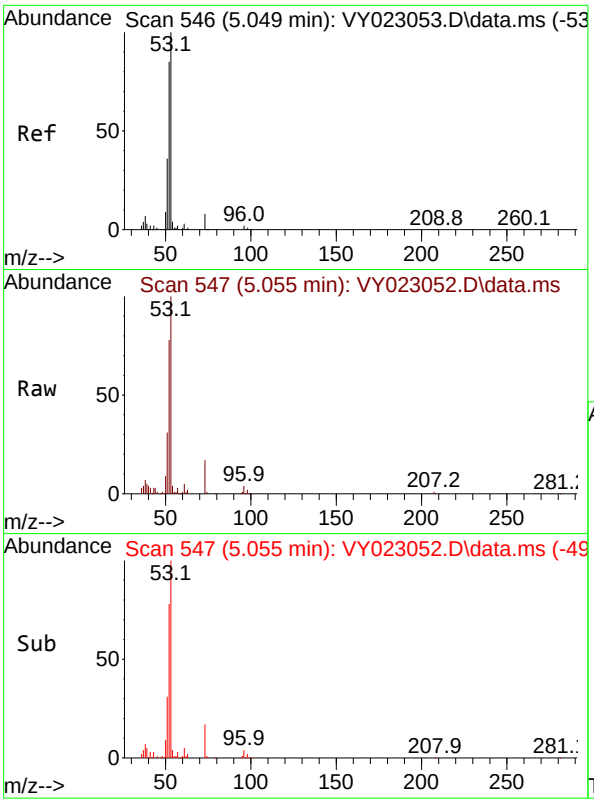


#14
Allyl chloride
Concen: 20.421 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 155709

Ion	Ratio	Lower	Upper
41	100		
39	77.1	59.8	89.6
76	43.3	33.7	50.5



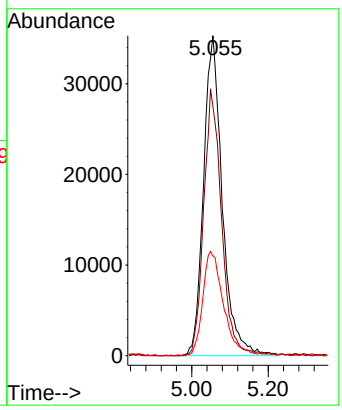


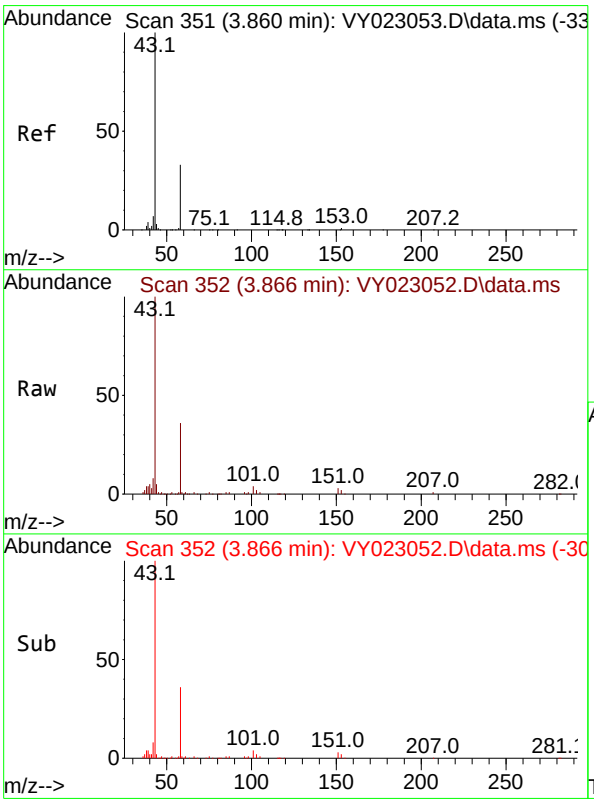
#15
Acrylonitrile
Concen: 104.535 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 120151

Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.3	97.9
51	35.9	29.5	44.3

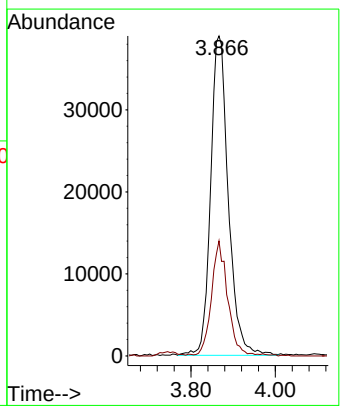


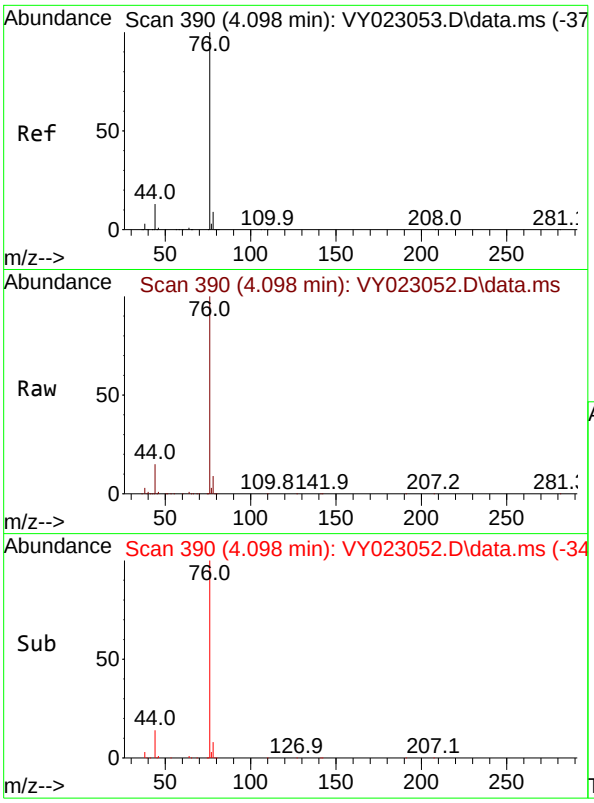


#16
Acetone
Concen: 102.193 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 113468

Ion	Ratio	Lower	Upper
43	100		
58	36.0	27.1	40.7



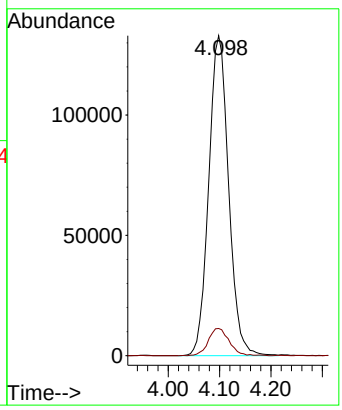


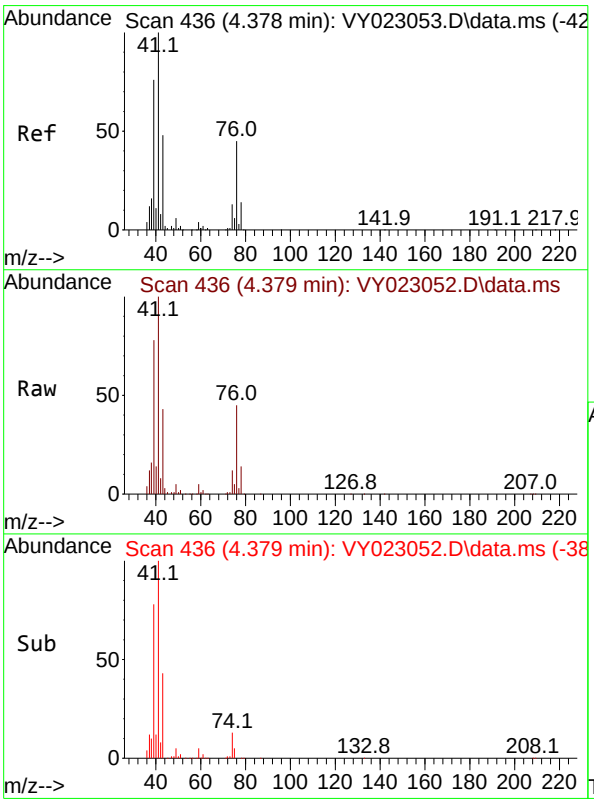
#17
Carbon Disulfide
Concen: 21.157 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 357484

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.2

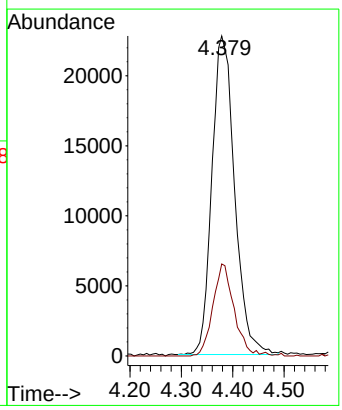


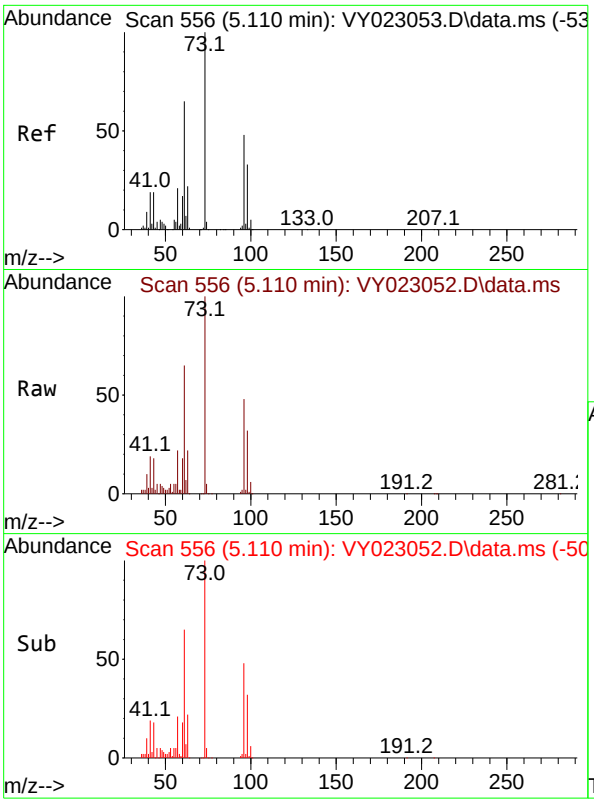


#18
Methyl Acetate
Concen: 21.141 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 69853

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.2	31.8



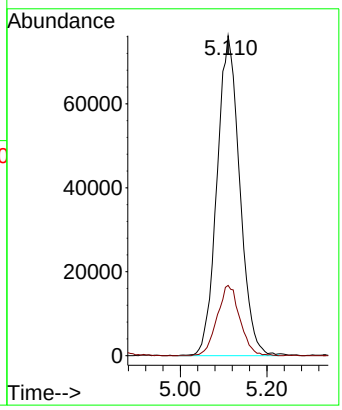


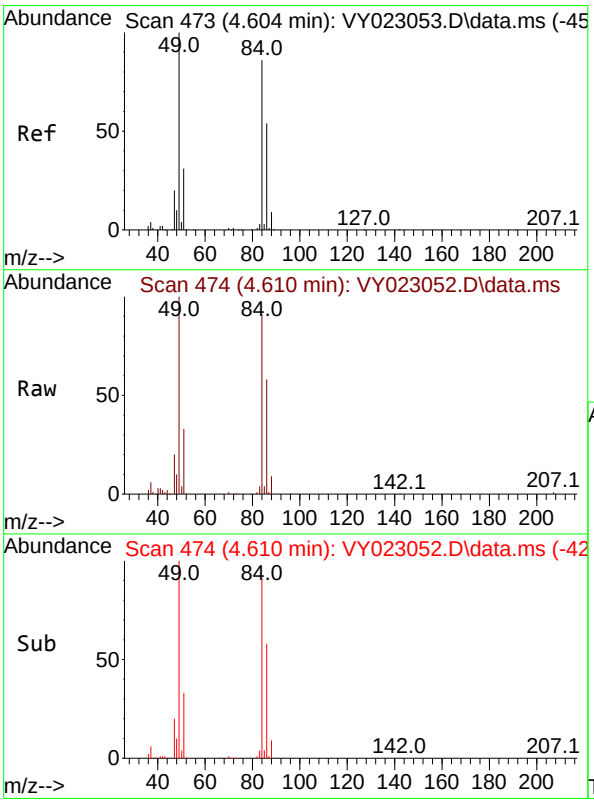
#19
Methyl tert-butyl Ether
Concen: 20.767 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 278863

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7

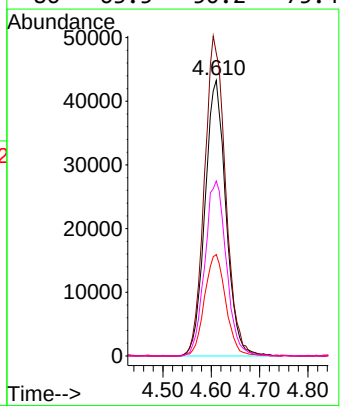


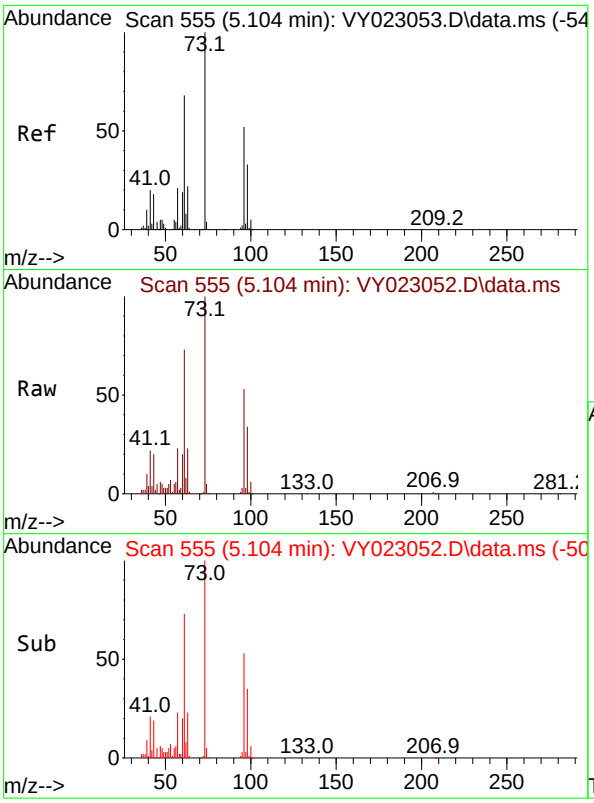


#20
Methylene Chloride
Concen: 21.069 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 84 Resp: 130416

Ion	Ratio	Lower	Upper
84	100		
49	109.9	93.0	139.6
51	36.8	29.0	43.4
86	63.5	50.2	75.4



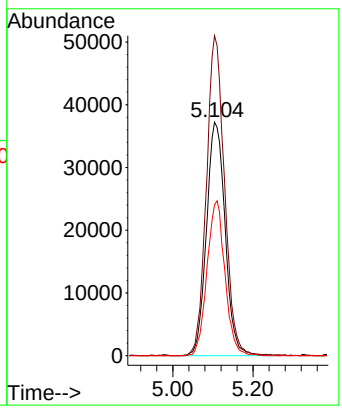


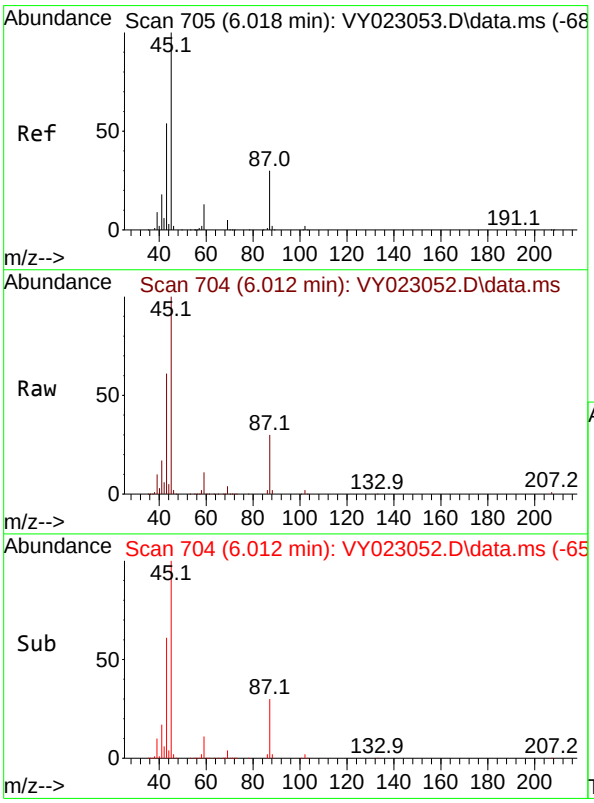
#21
trans-1,2-Dichloroethene
Concen: 20.661 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 120321

Ion	Ratio	Lower	Upper
96	100		
61	137.0	104.8	157.2
98	64.7	50.1	75.1

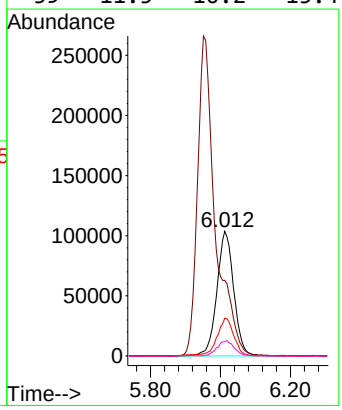


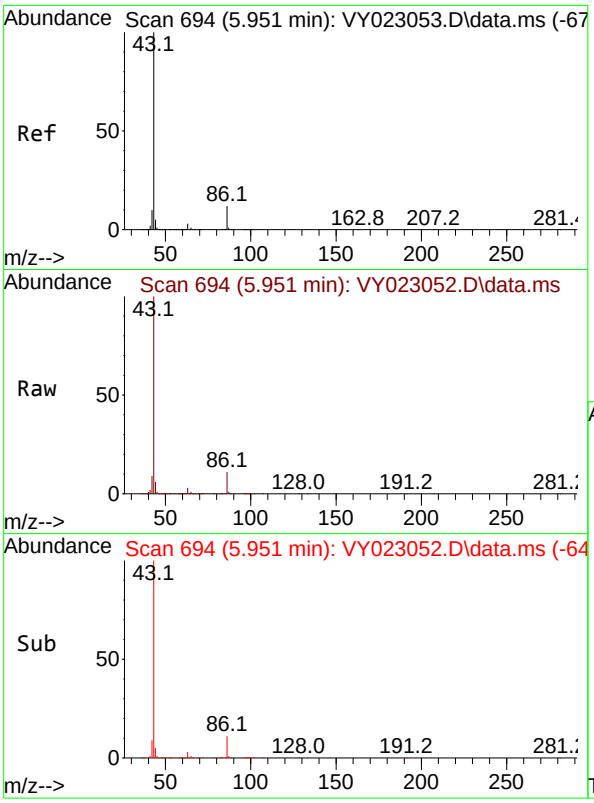


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 45 Resp: 346195

Ion	Ratio	Lower	Upper
45	100		
43	60.5	43.4	65.0
87	30.3	24.4	36.6
59	11.5	10.2	15.4



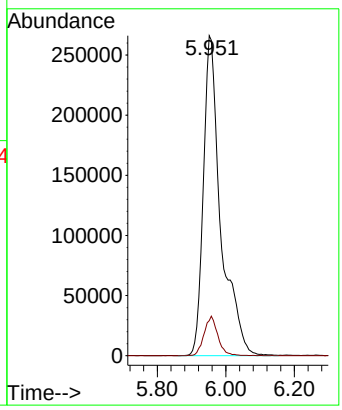


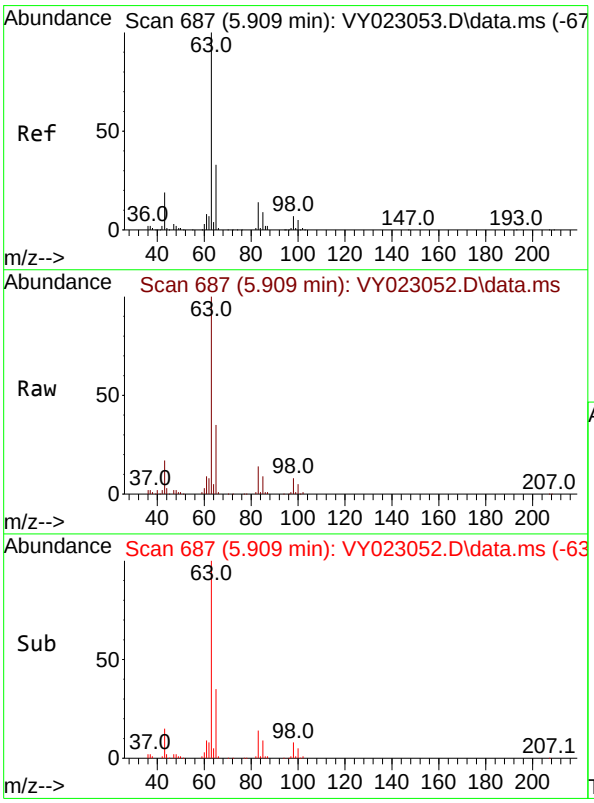
#23
Vinyl Acetate
Concen: 102.748 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 941364

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.6	14.4

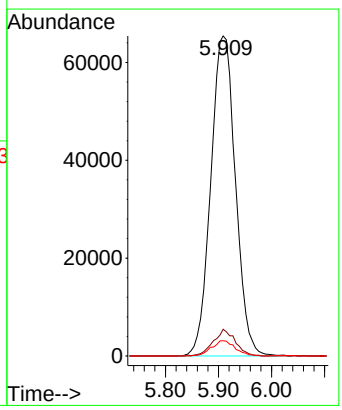


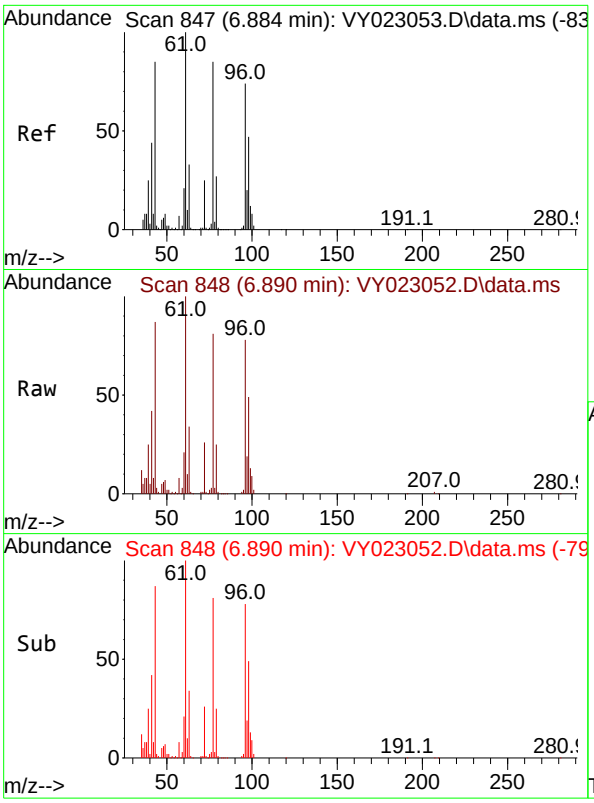


#24
1,1-Dichloroethane
Concen: 20.884 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 211558

Ion	Ratio	Lower	Upper
63	100		
98	8.4	3.5	10.6
100	4.8	2.4	7.1



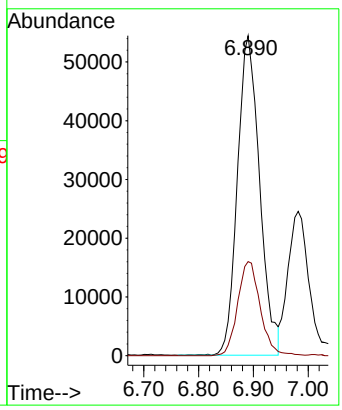


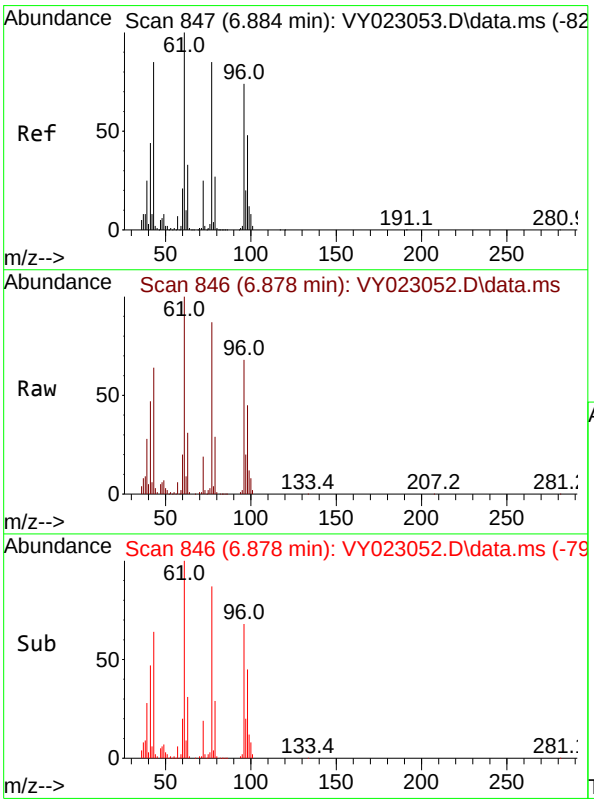
#25
2-Butanone
Concen: 101.559 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 153363

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.5	35.3

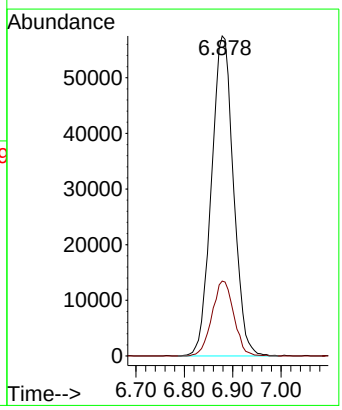


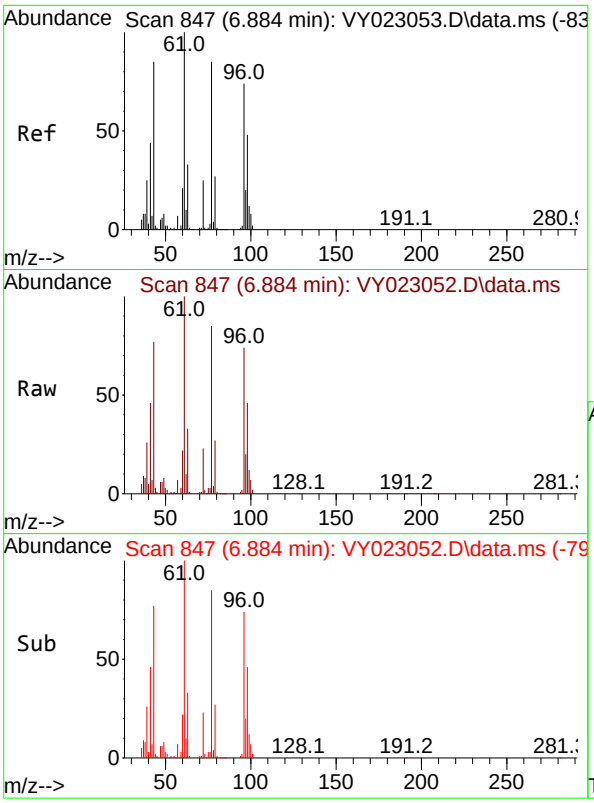


#26
2,2-Dichloropropane
Concen: 20.767 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 77 Resp: 181528

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8



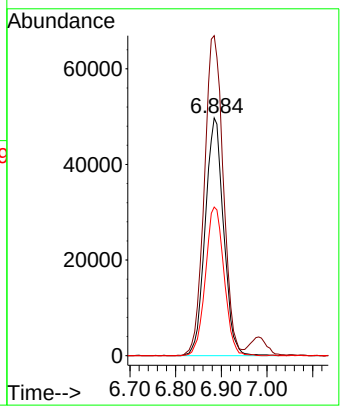


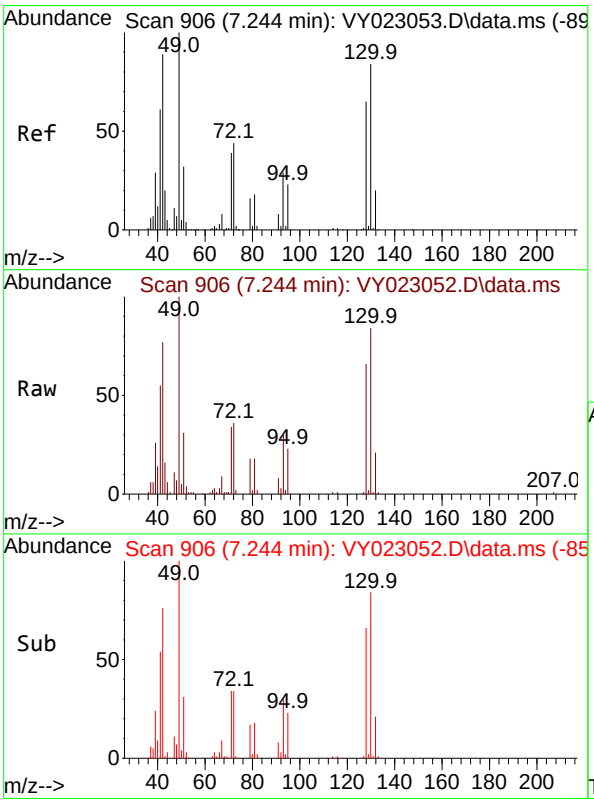
#27
cis-1,2-Dichloroethene
Concen: 20.613 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 138775

Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	278.6
98	63.4	0.0	130.4

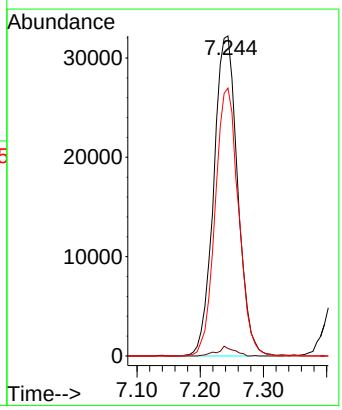


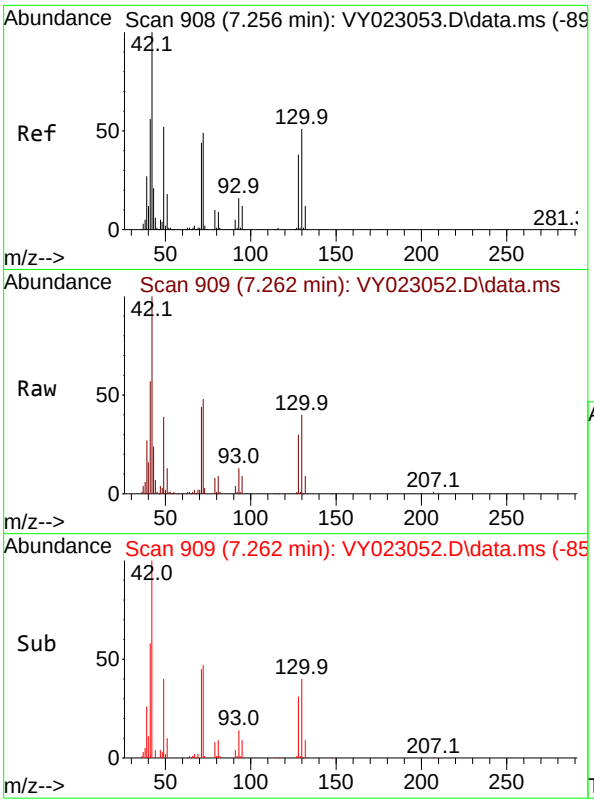


#28
Bromochloromethane
Concen: 21.035 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 49 Resp: 84540

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	81.7	66.4	99.6



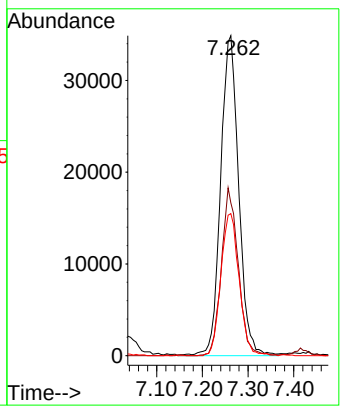


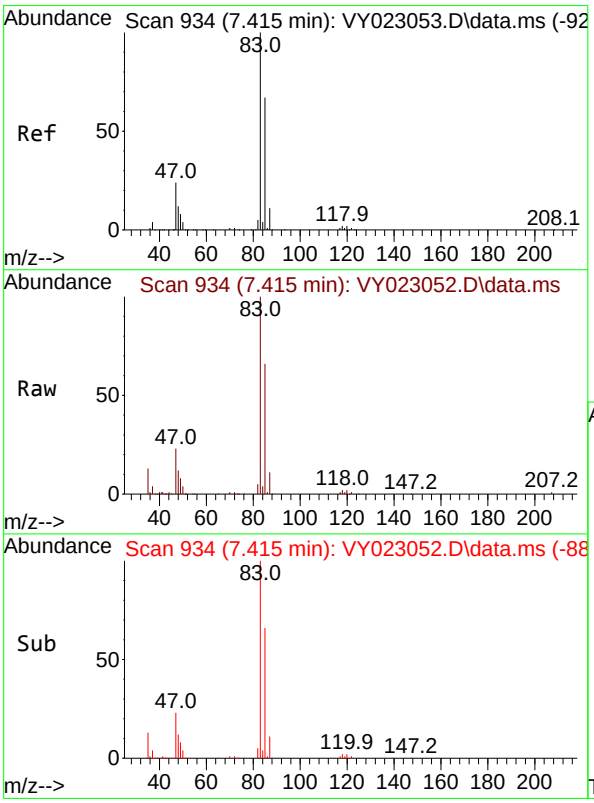
#29
Tetrahydrofuran
Concen: 102.341 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 95795

Ion	Ratio	Lower	Upper
42	100		
72	48.8	39.4	59.2
71	44.8	36.5	54.7

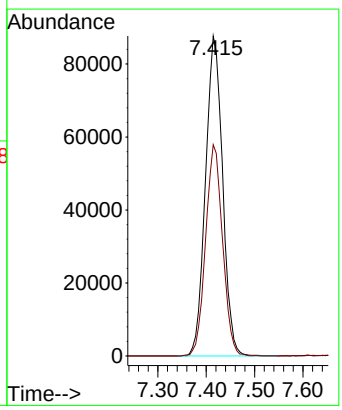


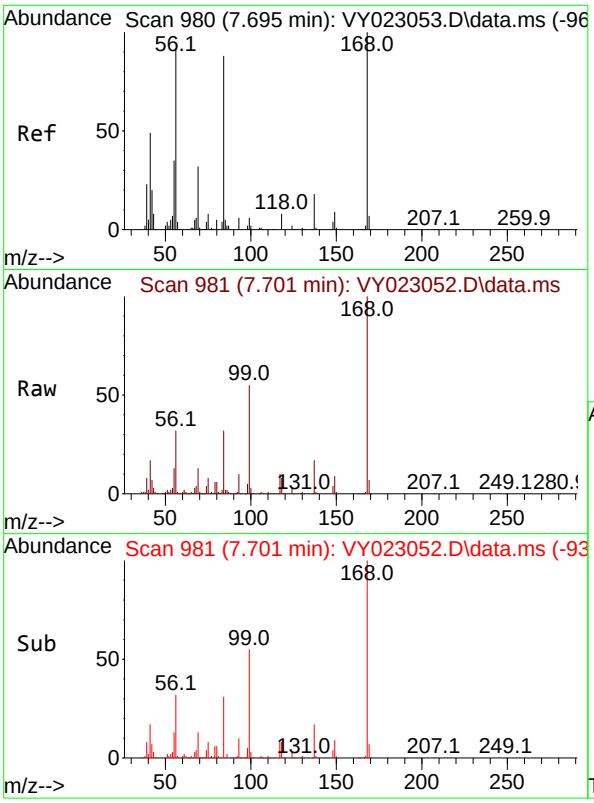


#30
Chloroform
Concen: 20.635 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 215585

Ion	Ratio	Lower	Upper
83	100		
85	66.0	53.8	80.8



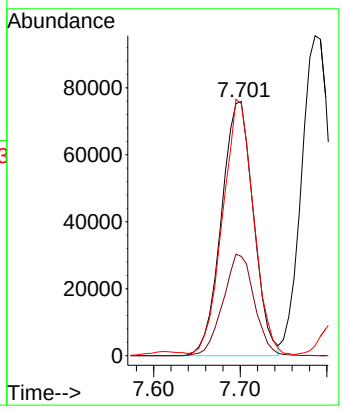


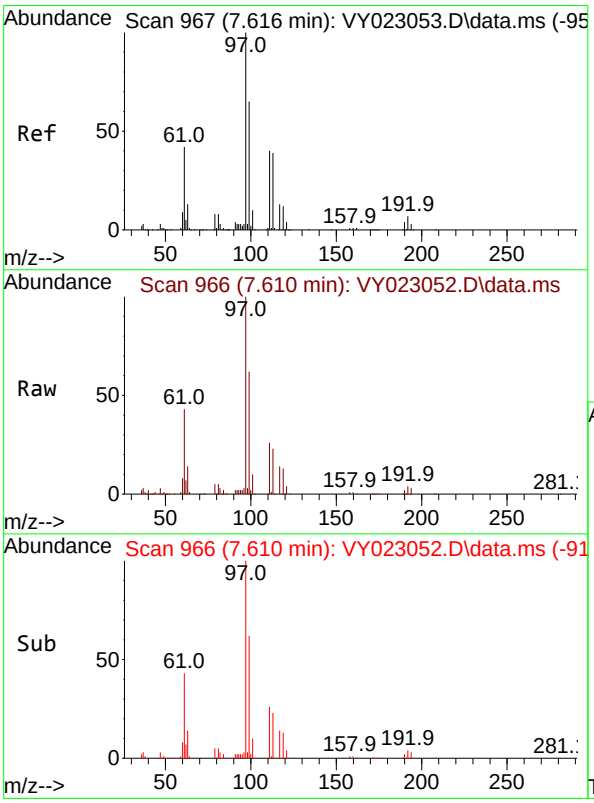
#31
Cyclohexane
Concen: 20.393 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 194671

Ion	Ratio	Lower	Upper
56	100		
69	39.1	28.2	42.2
84	98.0	76.6	114.8

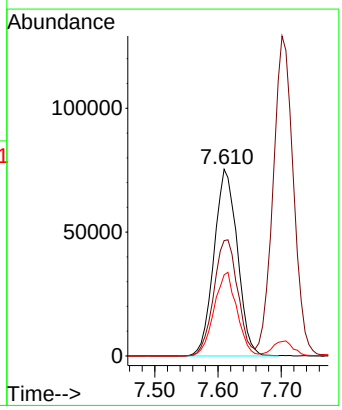


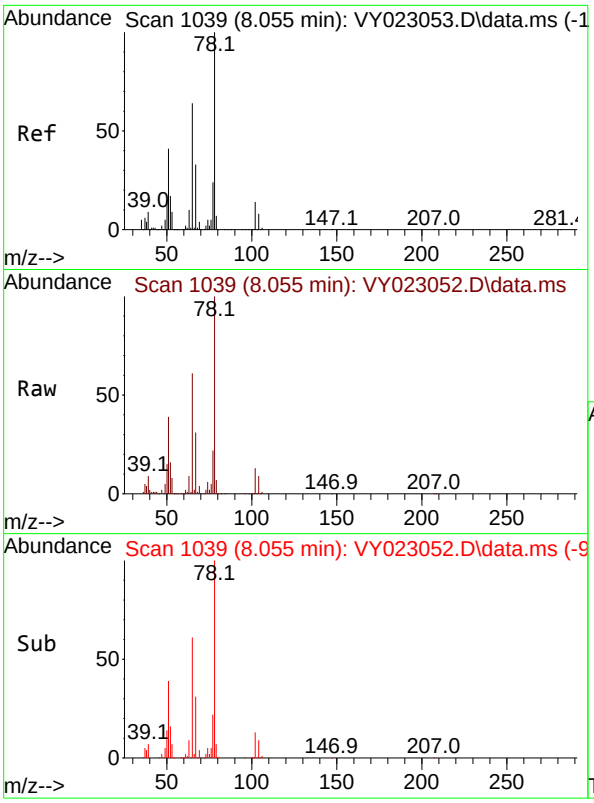


#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 97 Resp: 193268

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.6	77.4
61	43.9	34.2	51.2



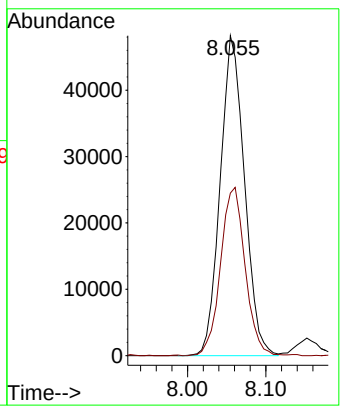


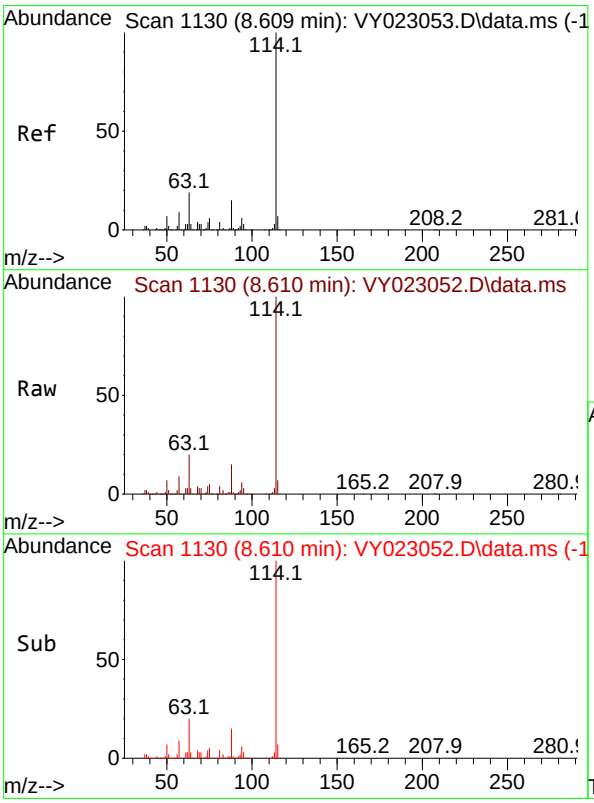
#33
1,2-Dichloroethane-d4
Concen: 20.244 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 103755

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

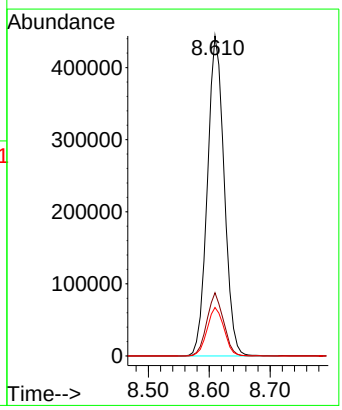


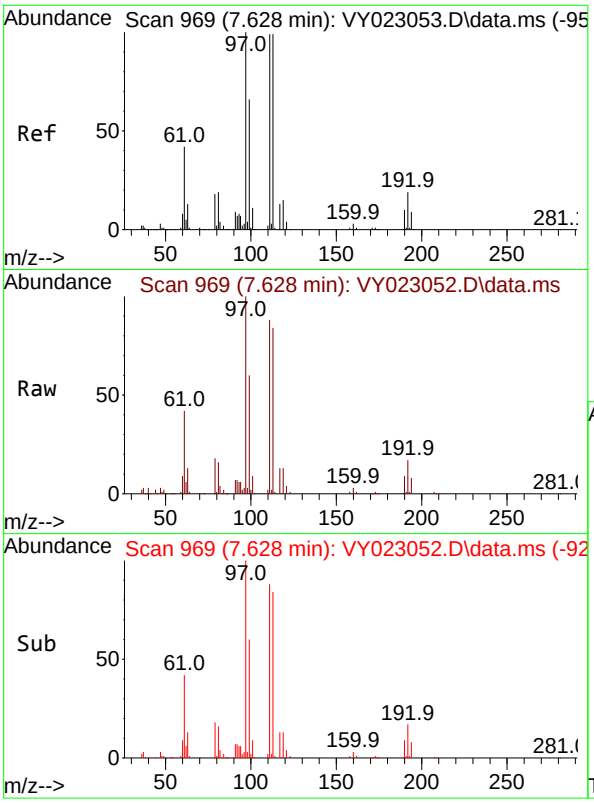


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:114 Resp: 848953

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.2	0.0	30.0



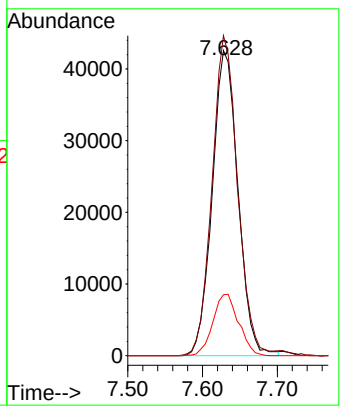


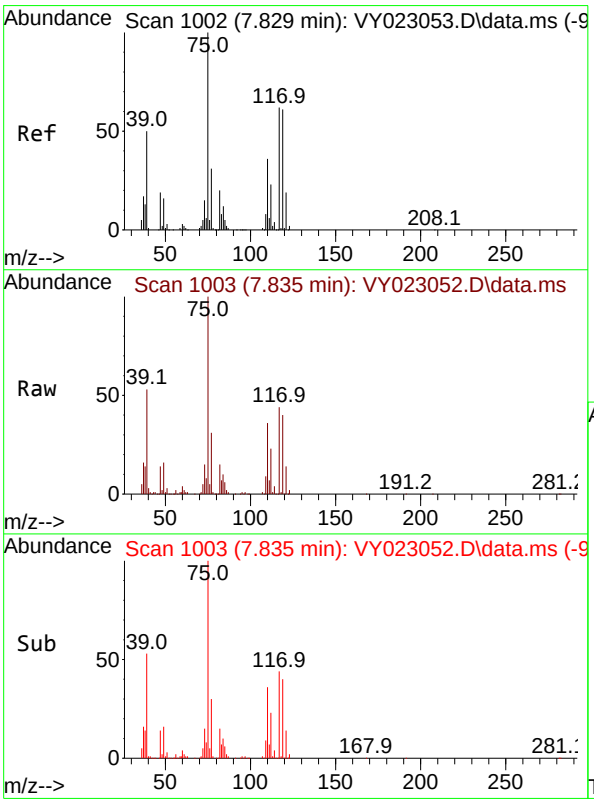
#35
Dibromofluoromethane
Concen: 20.093 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 102068

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.1	121.7
192	20.1	16.2	24.4

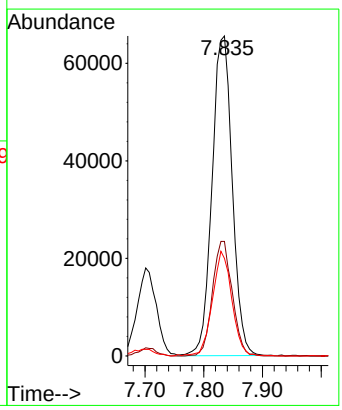


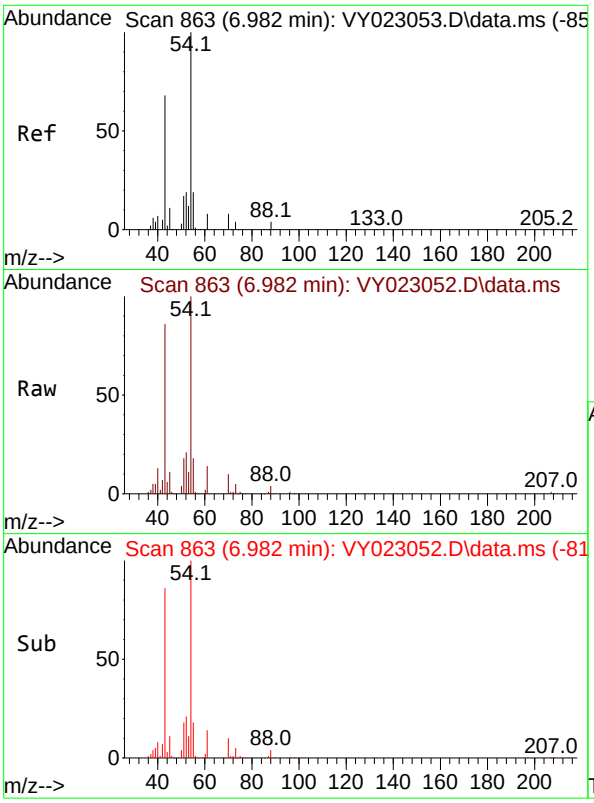


#36
1,1-Dichloropropene
Concen: 20.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 156617

Ion	Ratio	Lower	Upper
75	100		
110	35.1	18.1	54.4
77	31.6	24.6	37.0



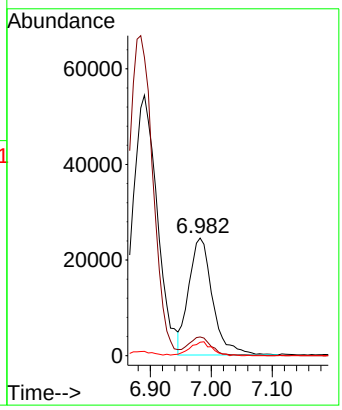


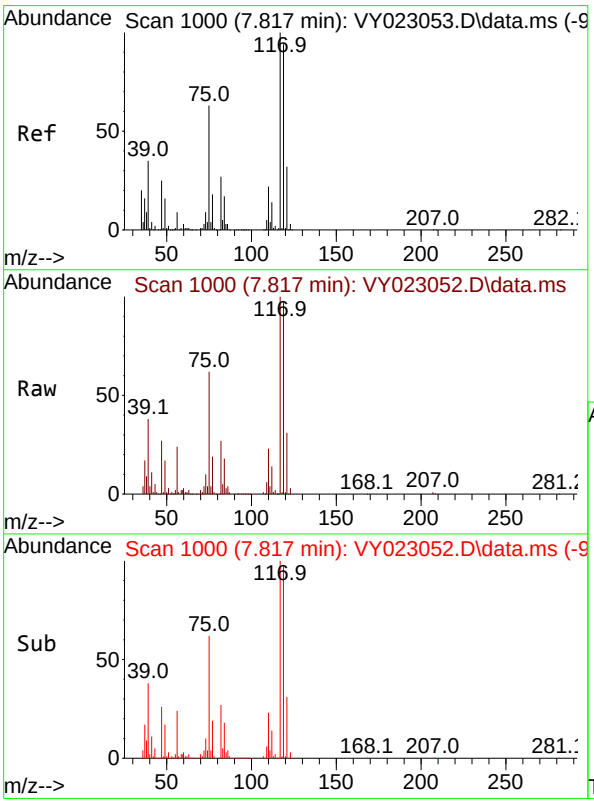
#37
Ethyl Acetate
Concen: 20.944 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 66420

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.9	17.9
70	11.0	8.8	13.2

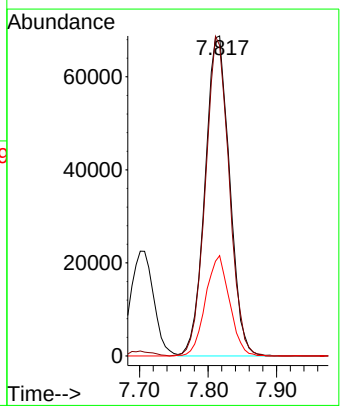


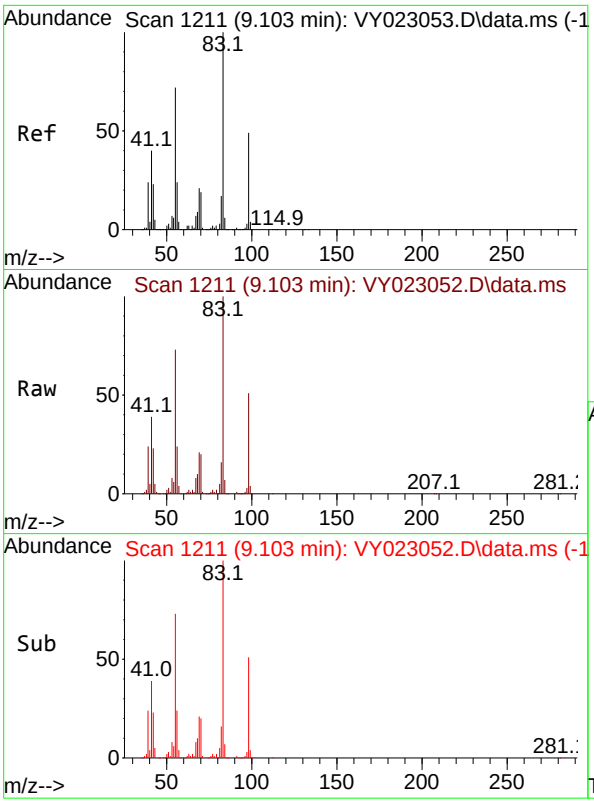


#38
Carbon Tetrachloride
Concen: 20.897 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 171344

Ion	Ratio	Lower	Upper
117	100		
119	97.0	75.6	113.4
121	31.3	25.8	38.8



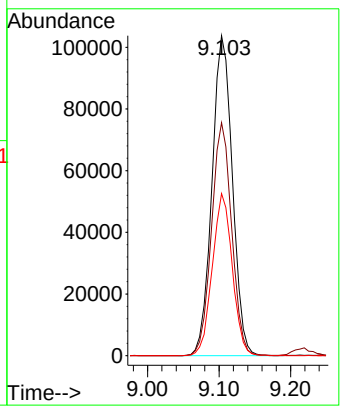


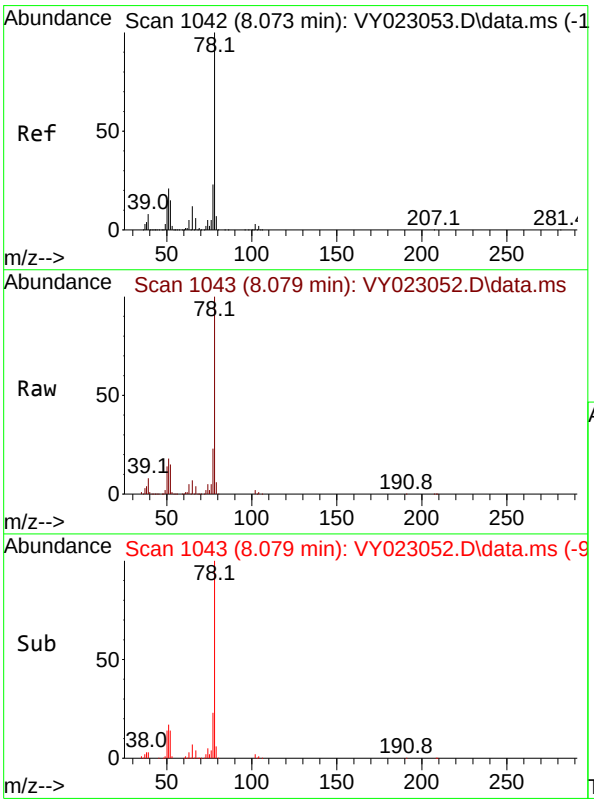
#39
Methylcyclohexane
Concen: 20.680 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 205594

Ion	Ratio	Lower	Upper
83	100		
55	72.8	57.6	86.4
98	50.7	39.2	58.8

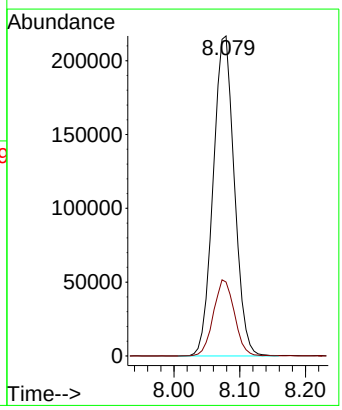


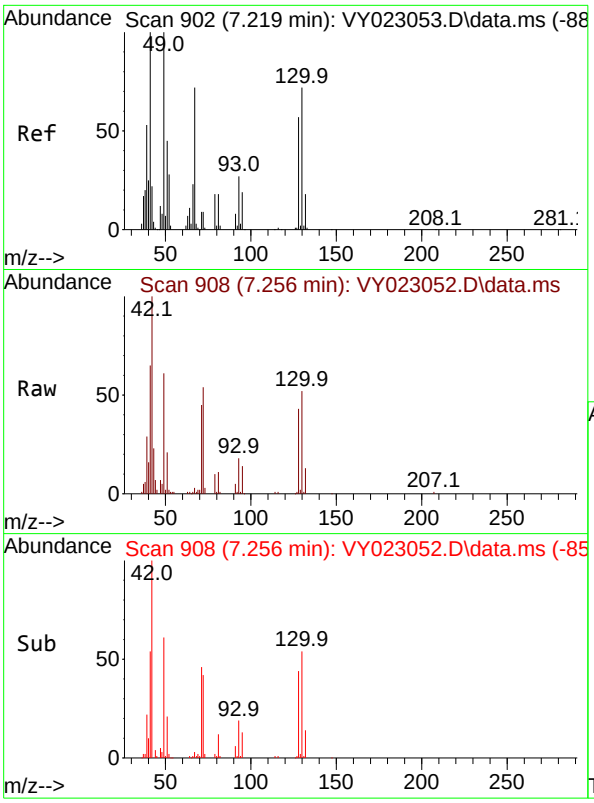


#40
Benzene
Concen: 20.871 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 78 Resp: 485631

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0



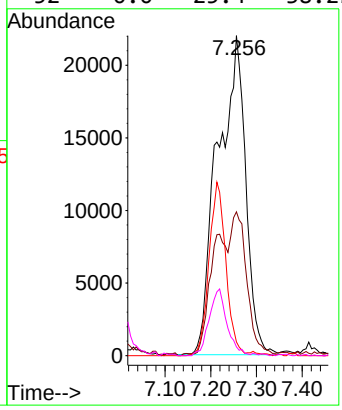


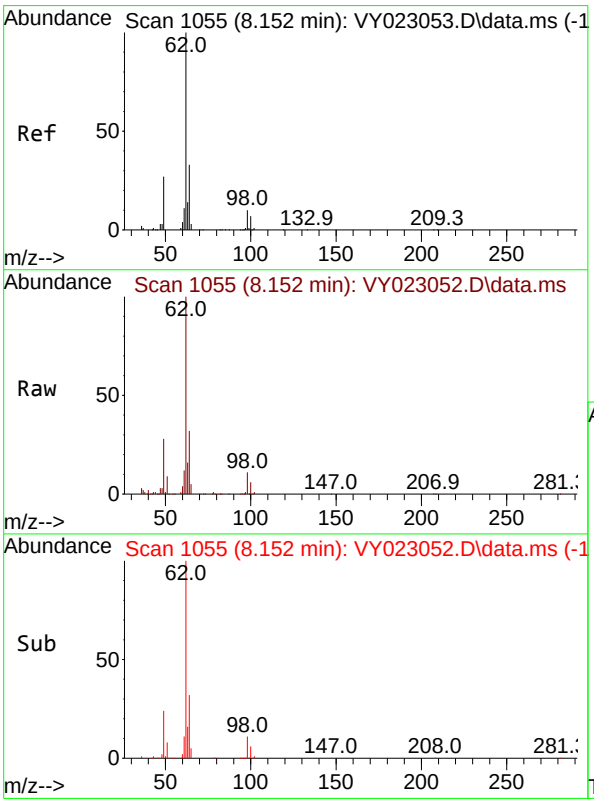
#41
Methacrylonitrile
Concen: 50.787 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.037 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 93052

Ion	Ratio	Lower	Upper
41	100		
39	25.3	43.4	65.2#
67	0.0	63.6	95.4#
52	0.0	25.4	38.2#

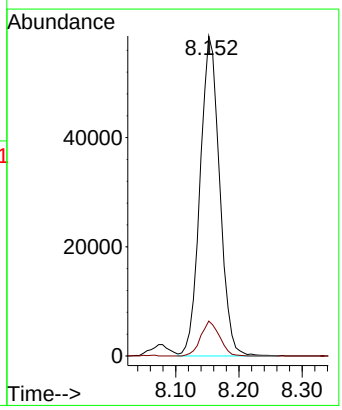


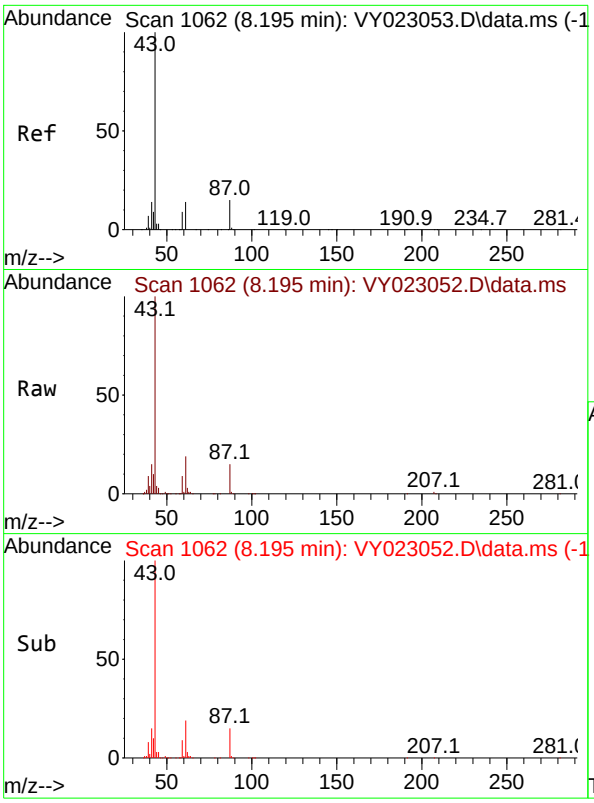


#42
1,2-Dichloroethane
Concen: 20.839 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 126111

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6



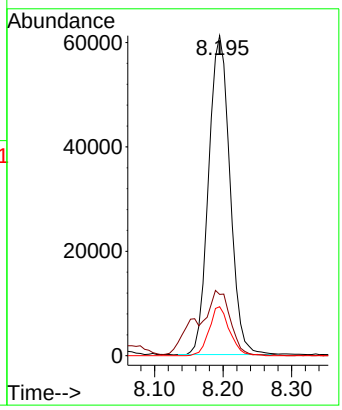


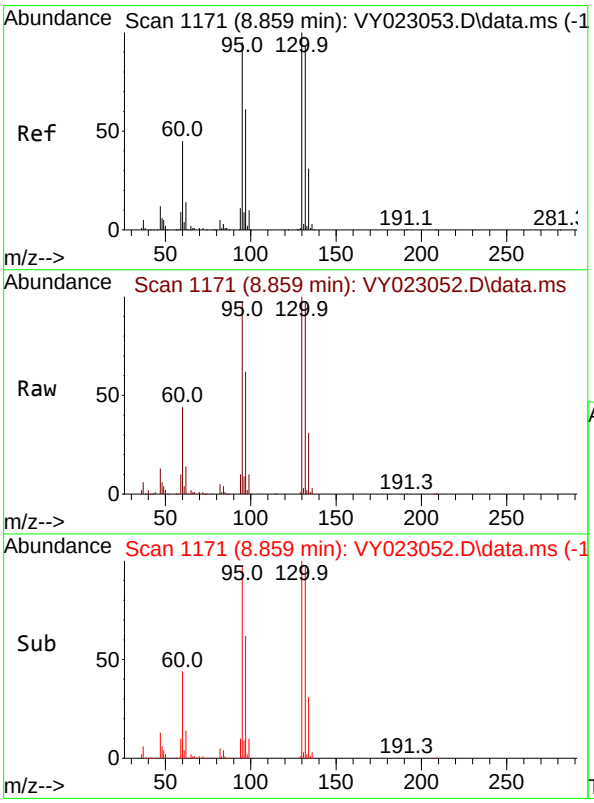
#43
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 131854

Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.4	24.6
87	14.7	11.8	17.6

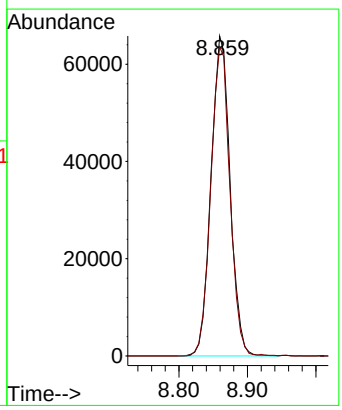


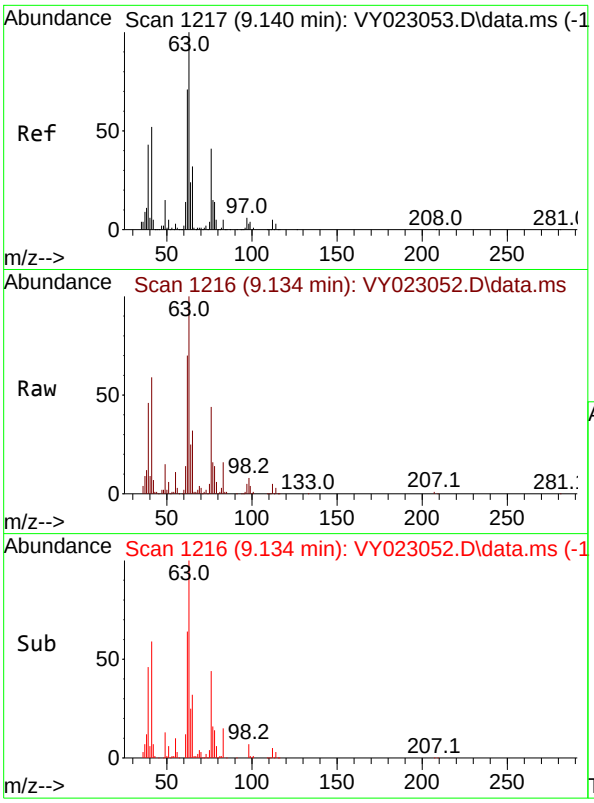


#44
Trichloroethene
Concen: 21.083 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:130 Resp: 126772

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	190.2



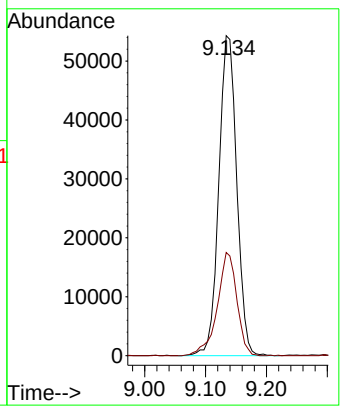


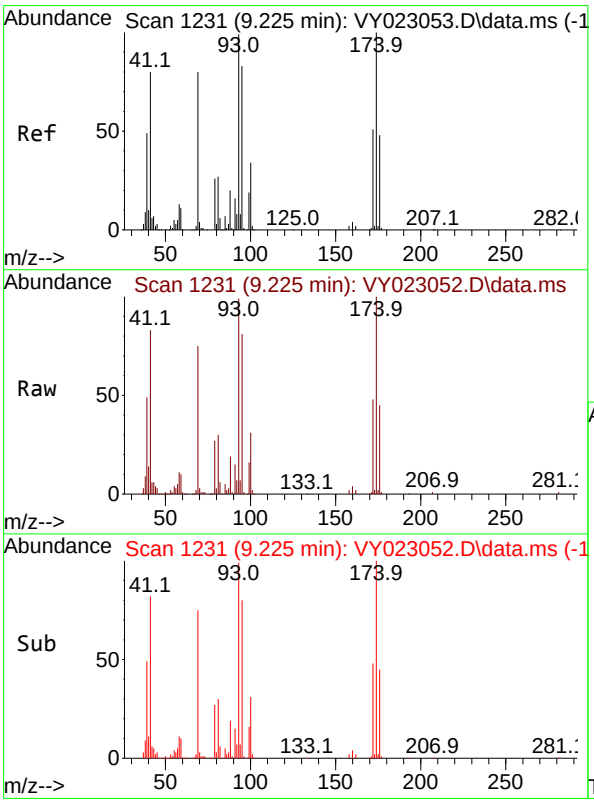
#45
1,2-Dichloropropane
Concen: 20.677 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 110699

Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.3	37.9

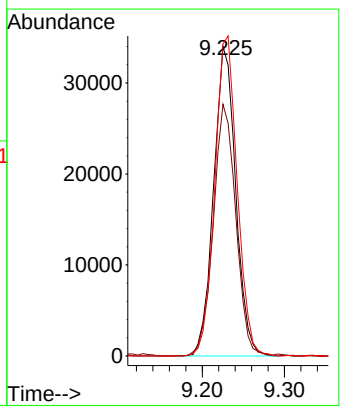


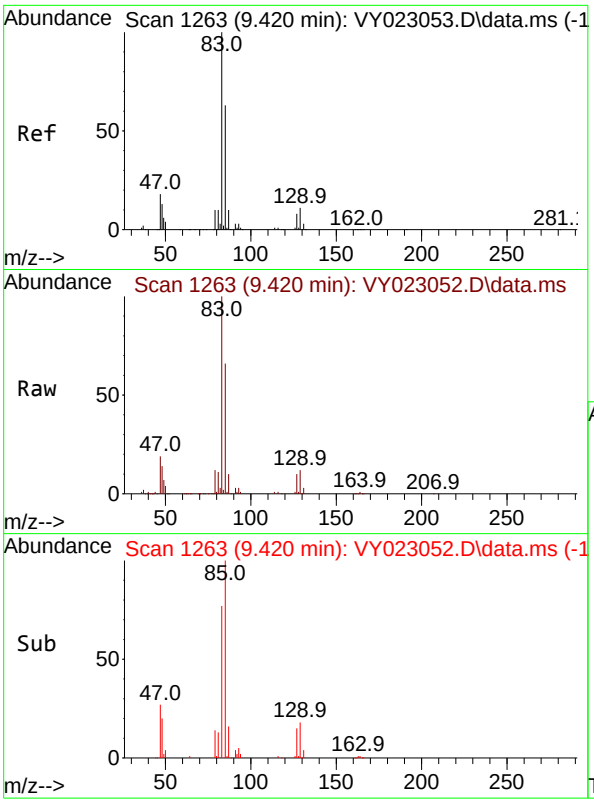


#46
Dibromomethane
Concen: 20.635 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 93 Resp: 63410

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.5	99.7
174	105.0	81.8	122.8



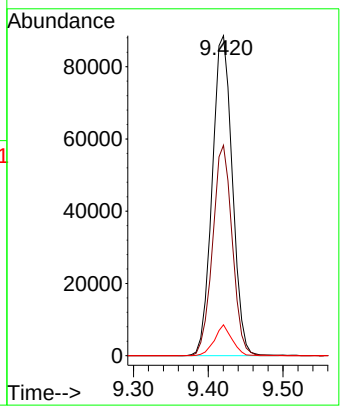


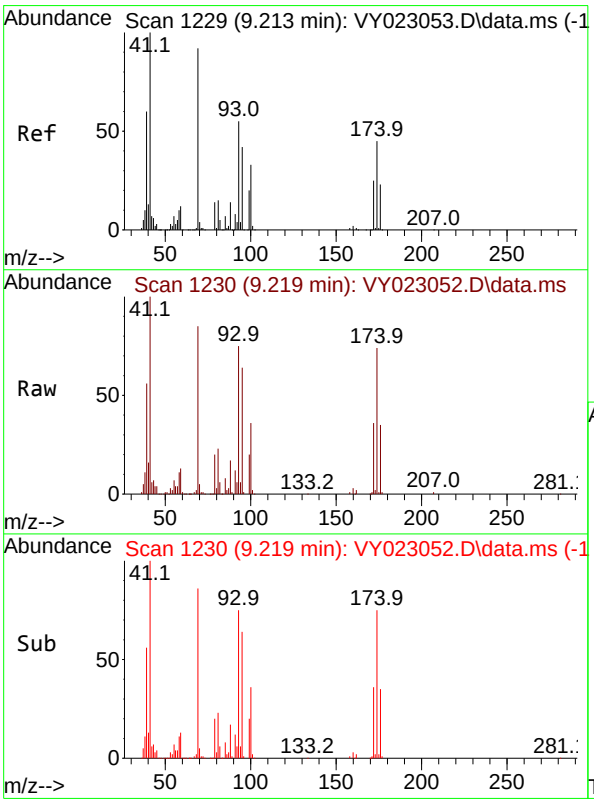
#47
Bromodichloromethane
Concen: 20.988 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 165954

Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.2	75.4
127	9.6	6.6	10.0

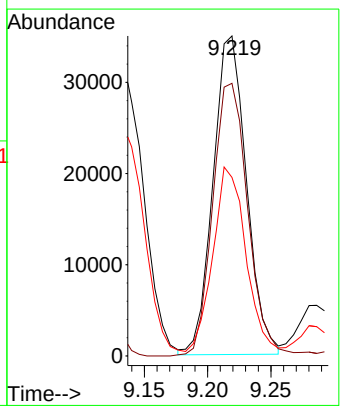


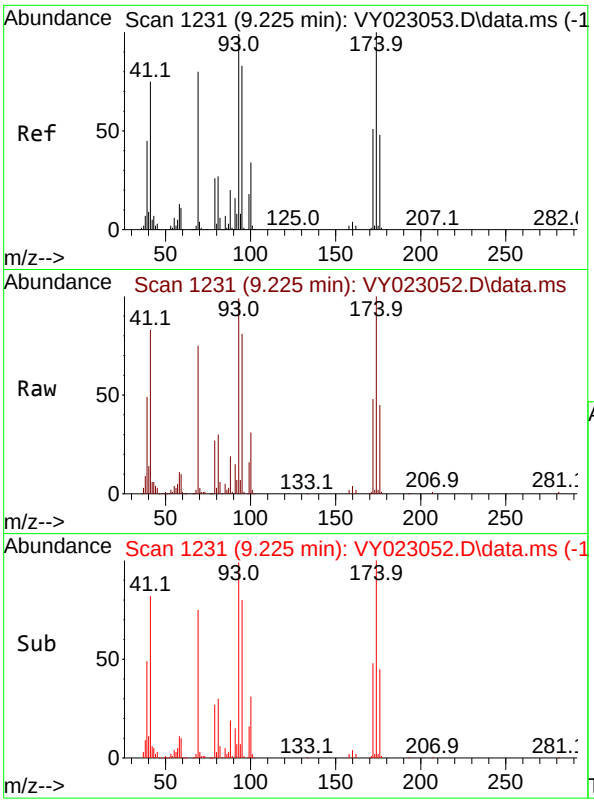


#48
Methyl methacrylate
Concen: 20.905 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 64120

Ion	Ratio	Lower	Upper
41	100		
69	89.9	73.2	109.8
39	57.0	47.0	70.4



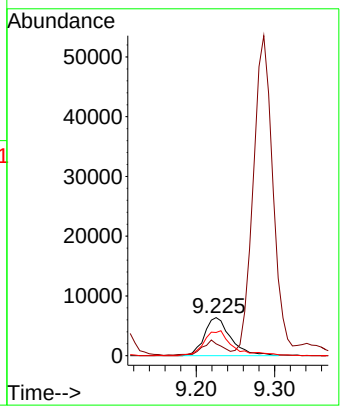


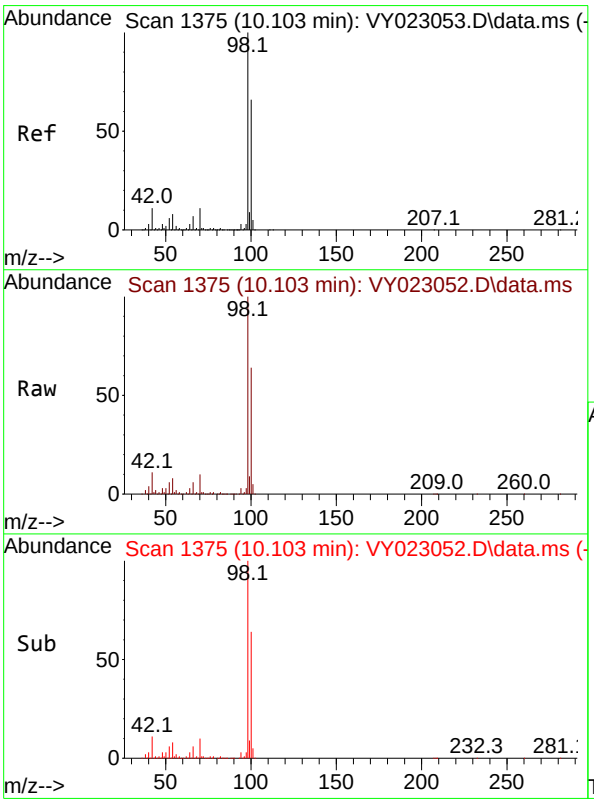
#49
1,4-Dioxane
Concen: 411.480 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 14826

Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.3	36.5
58	71.4	55.4	83.0

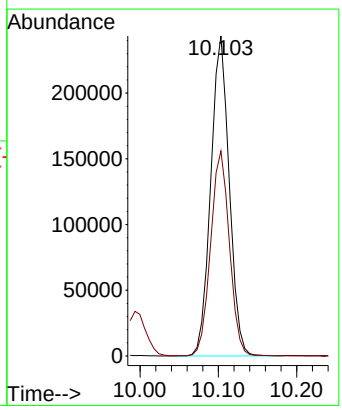


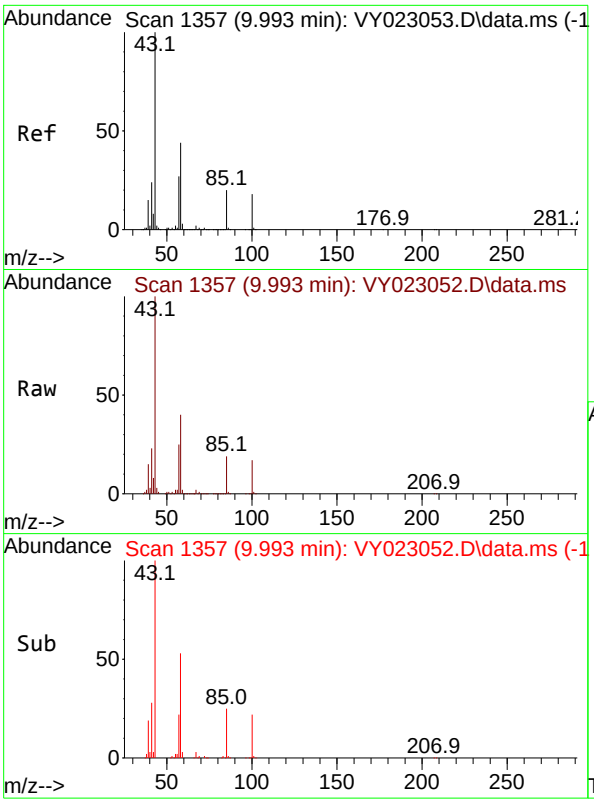


#50
Toluene-d8
Concen: 20.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 98 Resp: 398394

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5



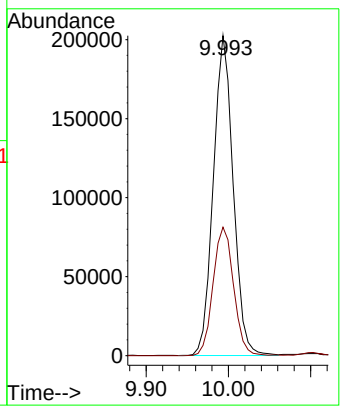


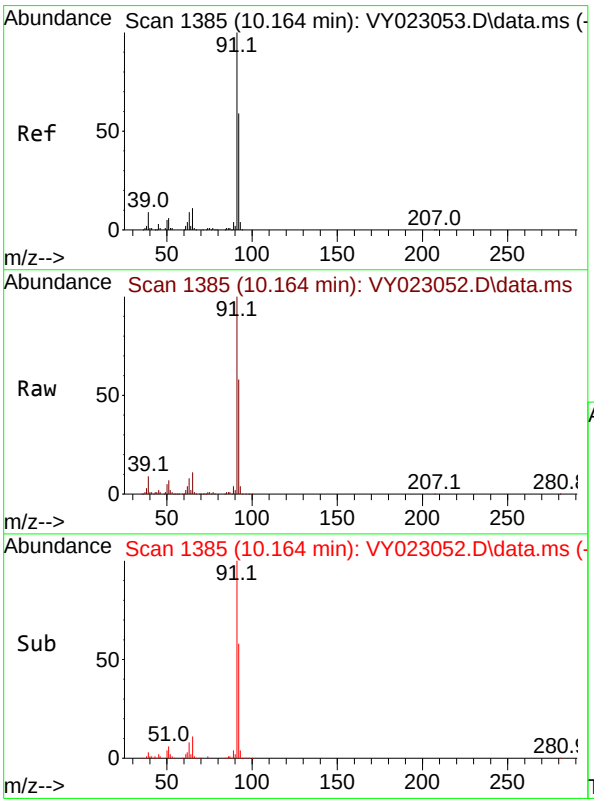
#51
4-Methyl-2-Pentanone
Concen: 102.622 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 339298

Ion	Ratio	Lower	Upper
43	100		
58	41.6	33.5	50.3

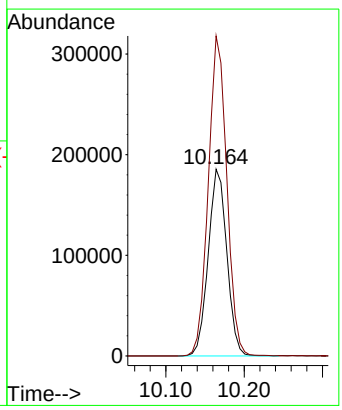


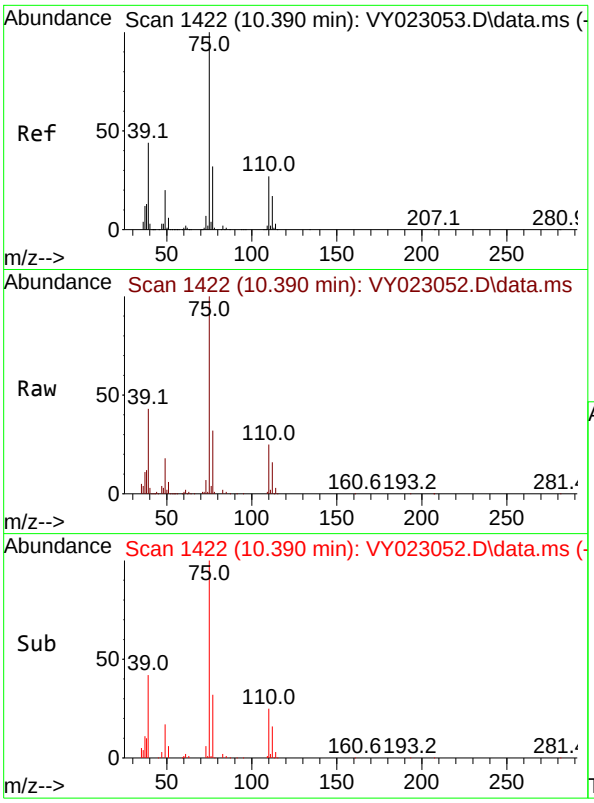


#52
Toluene
Concen: 20.719 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 92 Resp: 306193

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.4	204.6



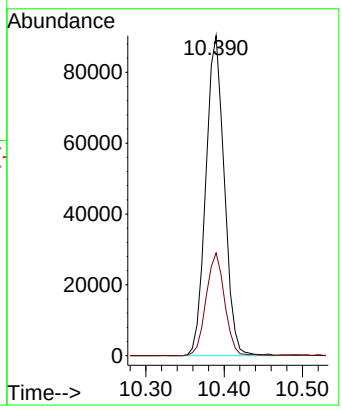


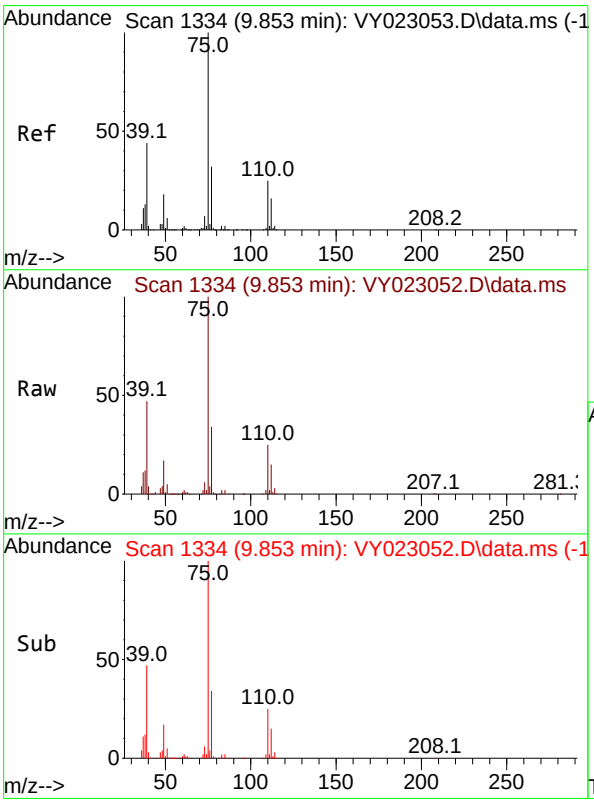
#53
t-1,3-Dichloropropene
Concen: 20.627 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 147696

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

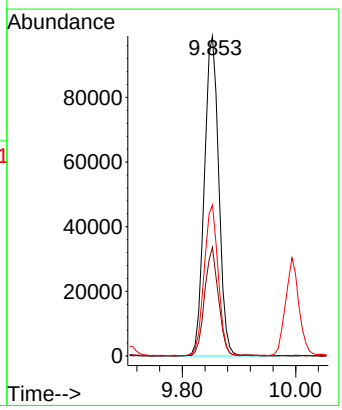


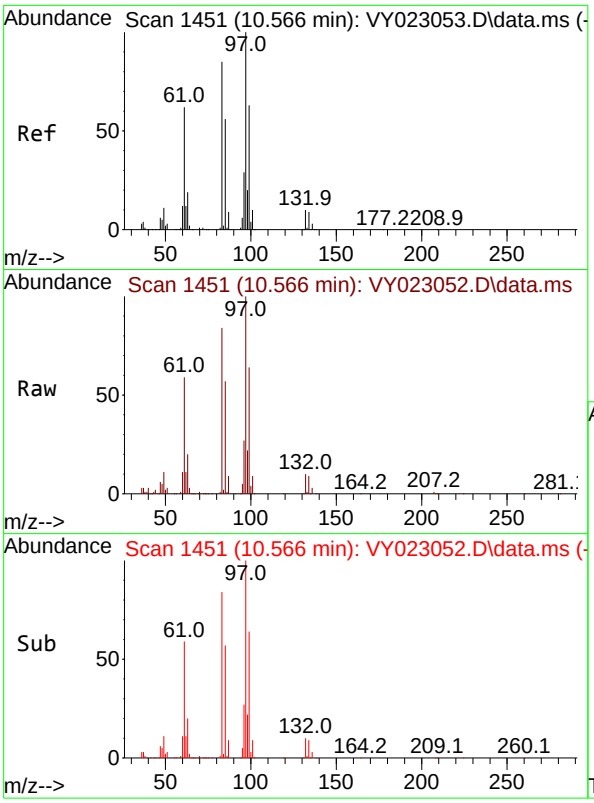


#54
cis-1,3-Dichloropropene
Concen: 20.580 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 174243

Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.4	38.0
39	47.1	35.6	53.4



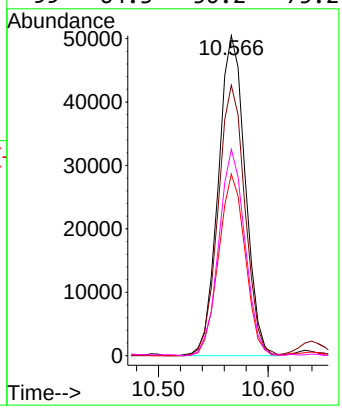


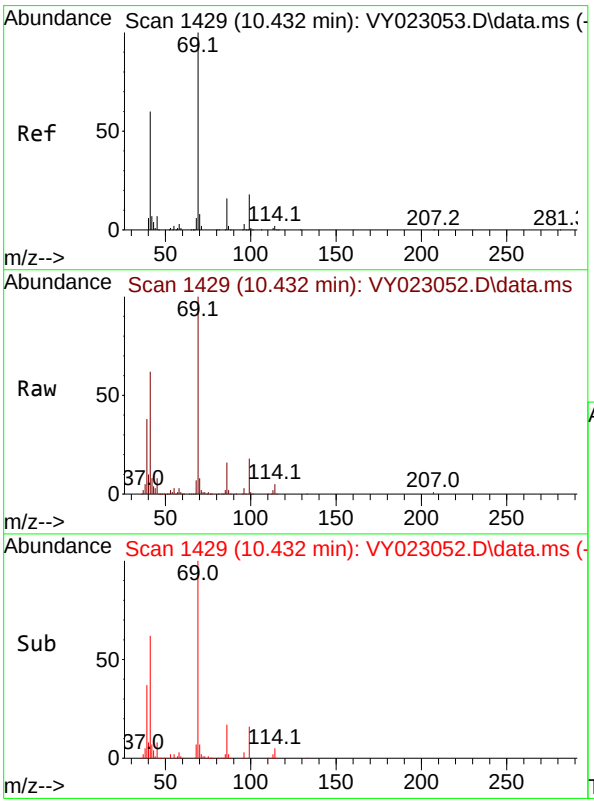
#55
1,1,2-Trichloroethane
Concen: 20.920 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 86022

Ion	Ratio	Lower	Upper
97	100		
83	84.5	67.7	101.5
85	56.7	44.5	66.7
99	64.3	50.2	75.2

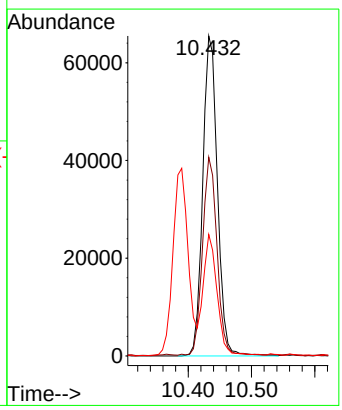


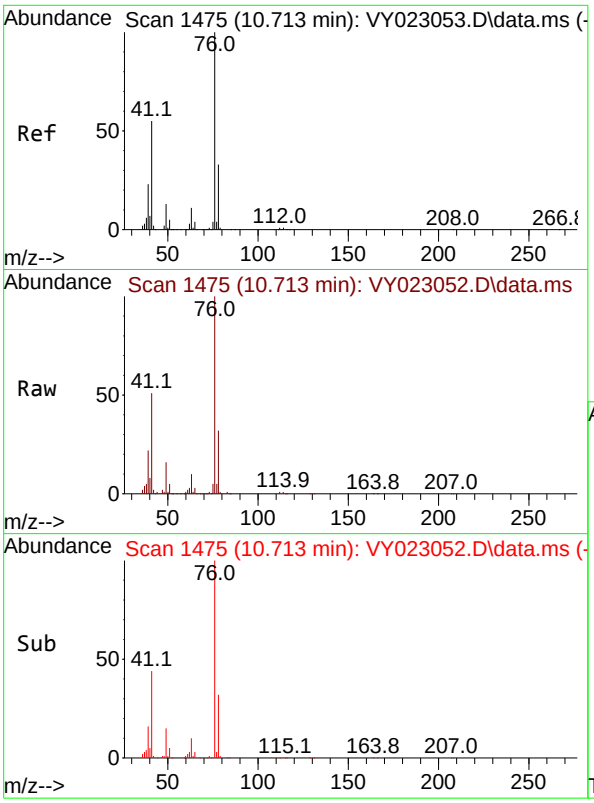


#56
Ethyl methacrylate
Concen: 20.111 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 69 Resp: 105816

Ion	Ratio	Lower	Upper
69	100		
41	61.2	48.6	72.8
39	34.7	27.0	40.4



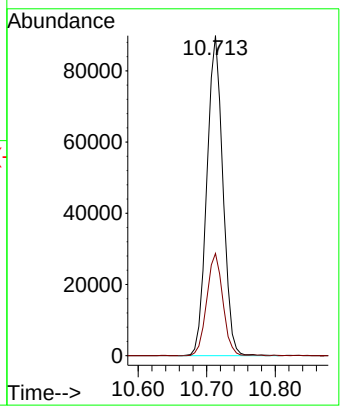


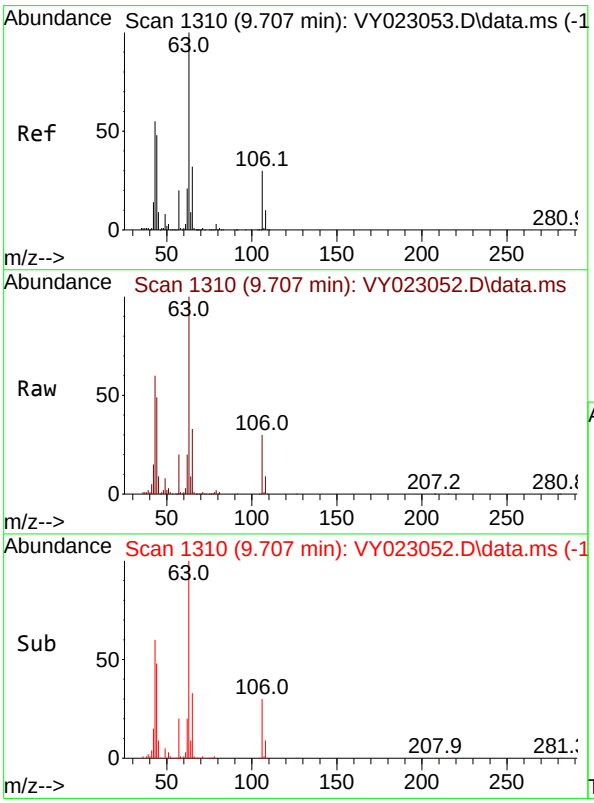
#57
1,3-Dichloropropane
Concen: 20.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 145621

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.0	39.0

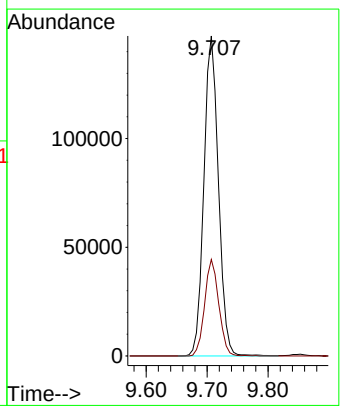


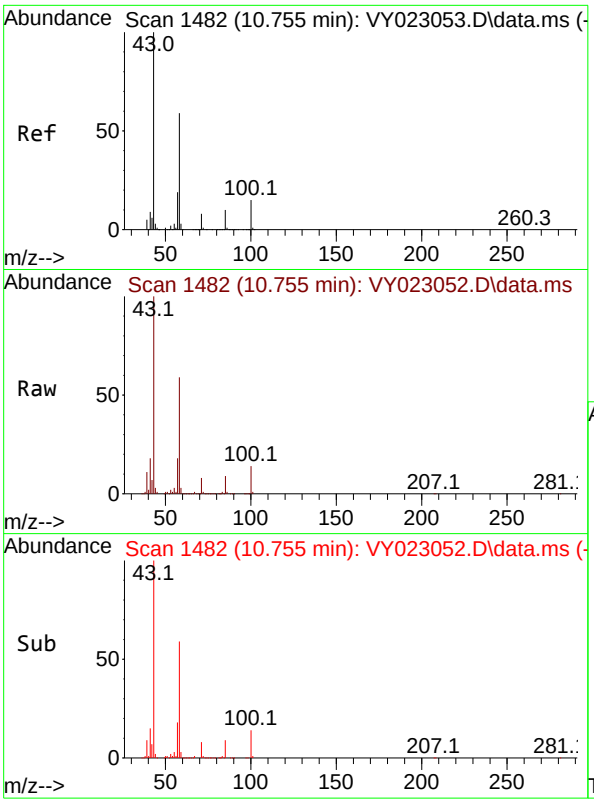


#58
2-Chloroethyl Vinyl ether
Concen: 98.450 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 244340

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.2	34.8



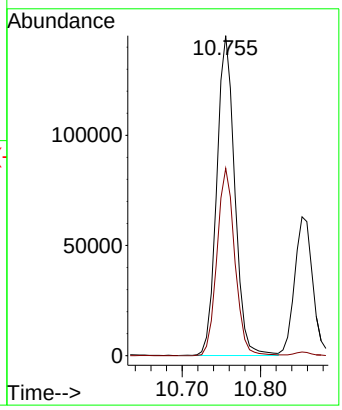


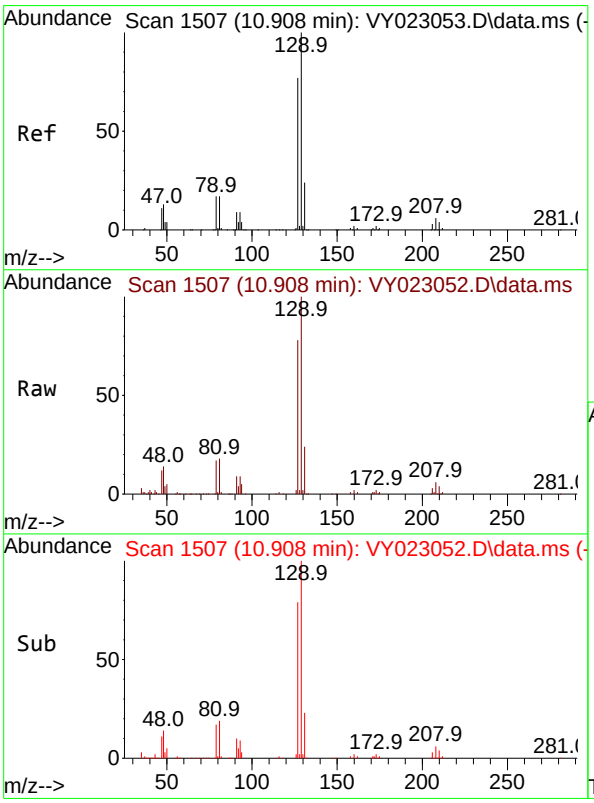
#59
2-Hexanone
Concen: 102.992 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 231872

Ion	Ratio	Lower	Upper
43	100		
58	58.1	29.5	88.5

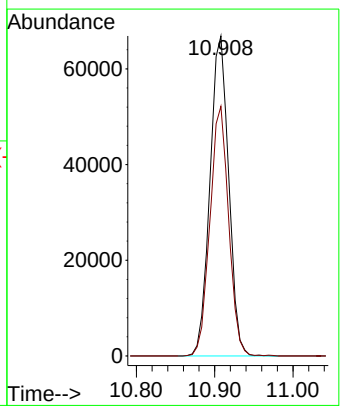


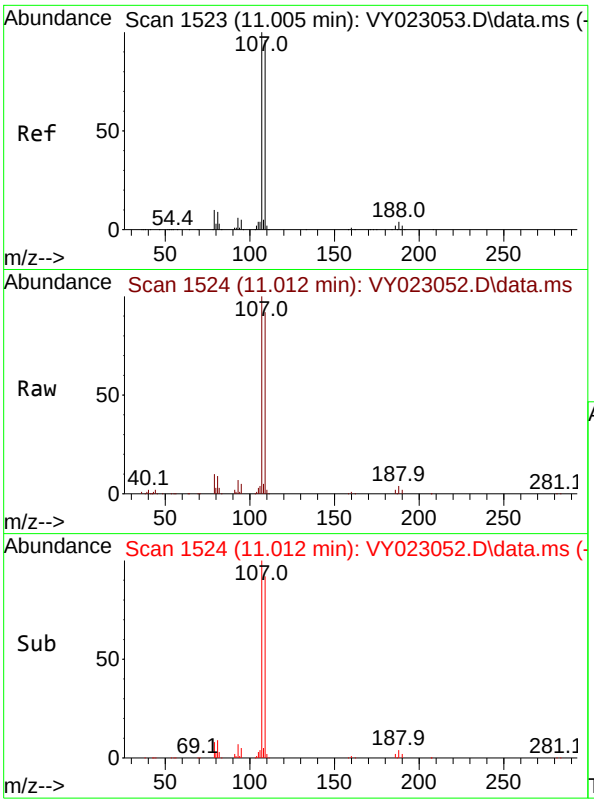


#60
Dibromochloromethane
Concen: 20.424 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:129 Resp: 110810

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.5



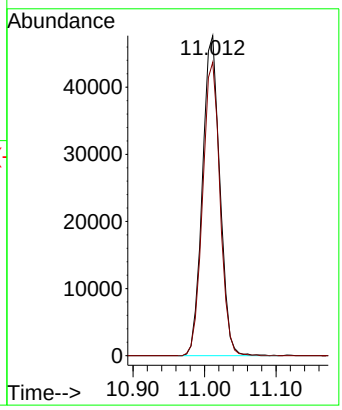


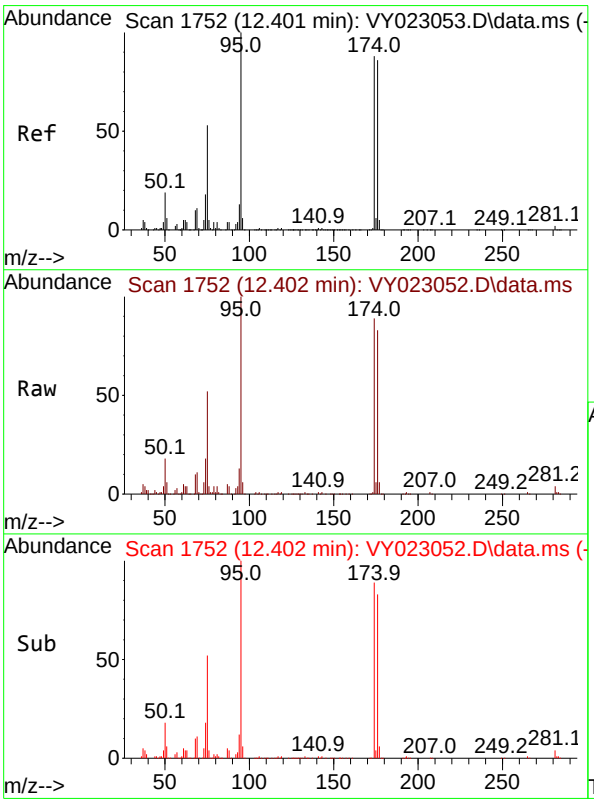
#61
1,2-Dibromoethane
Concen: 20.842 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 80549

Ion	Ratio	Lower	Upper
107	100		
109	91.5	75.6	113.4

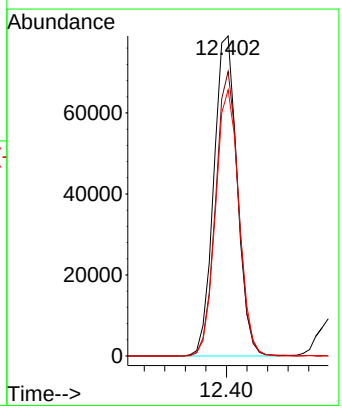


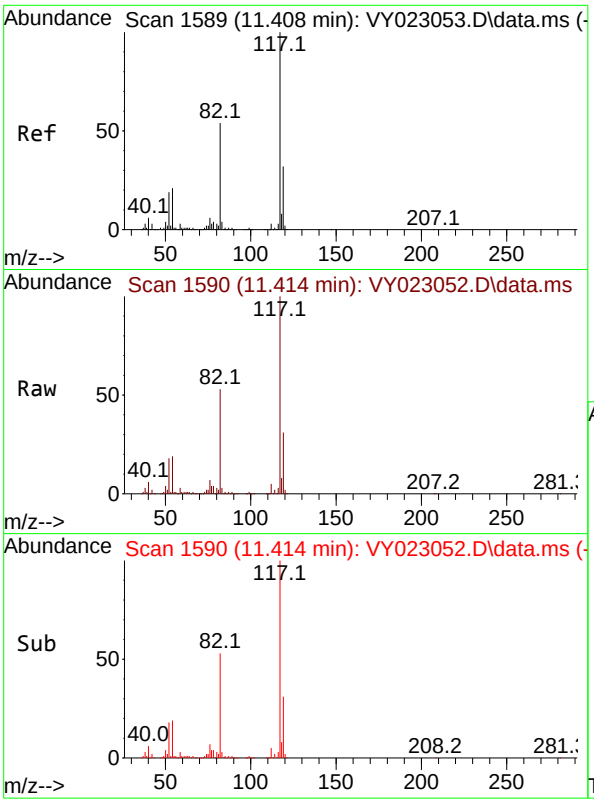


#62
4-Bromofluorobenzene
Concen: 19.503 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 95 Resp: 124467

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	171.6
176	83.3	0.0	167.6



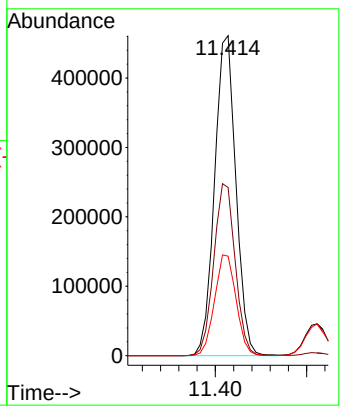


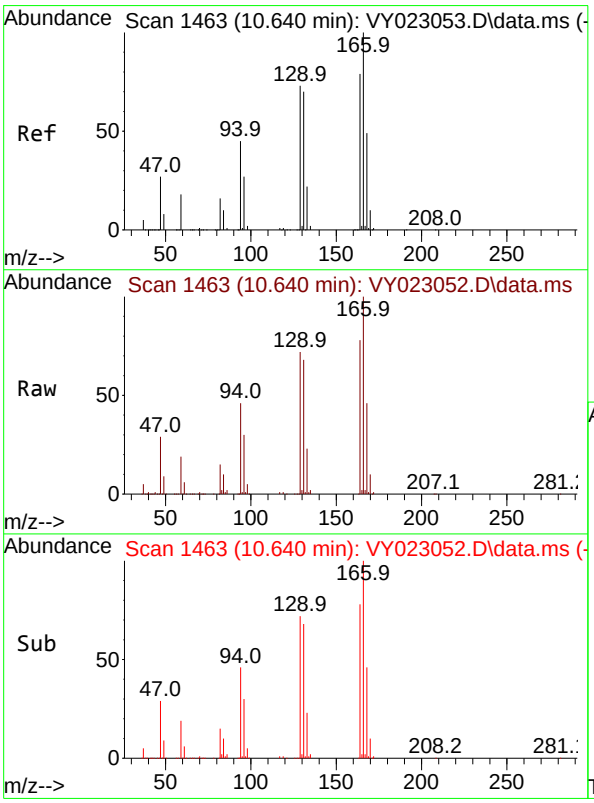
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 745484

Ion	Ratio	Lower	Upper
117	100		
82	52.5	43.4	65.0
119	31.1	25.6	38.4

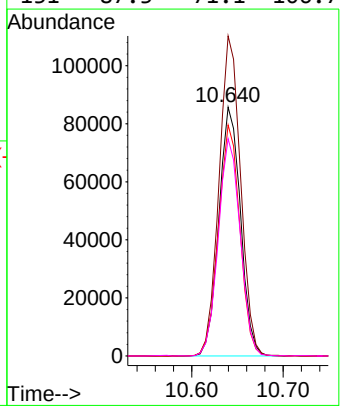


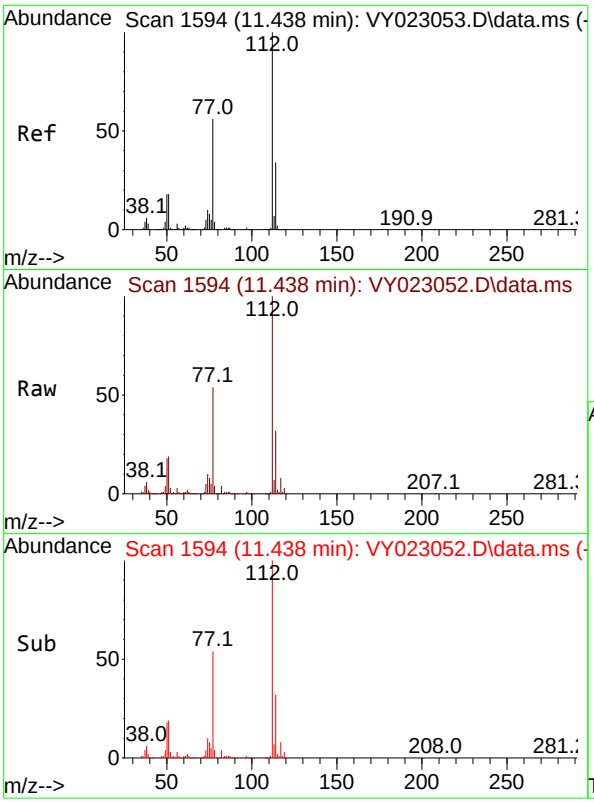


#64
Tetrachloroethene
Concen: 21.273 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:164 Resp: 141609

Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.1	151.7
129	92.9	74.0	111.0
131	87.3	71.1	106.7



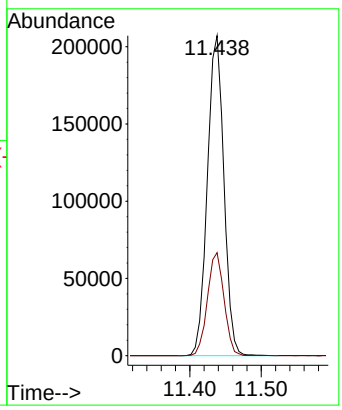


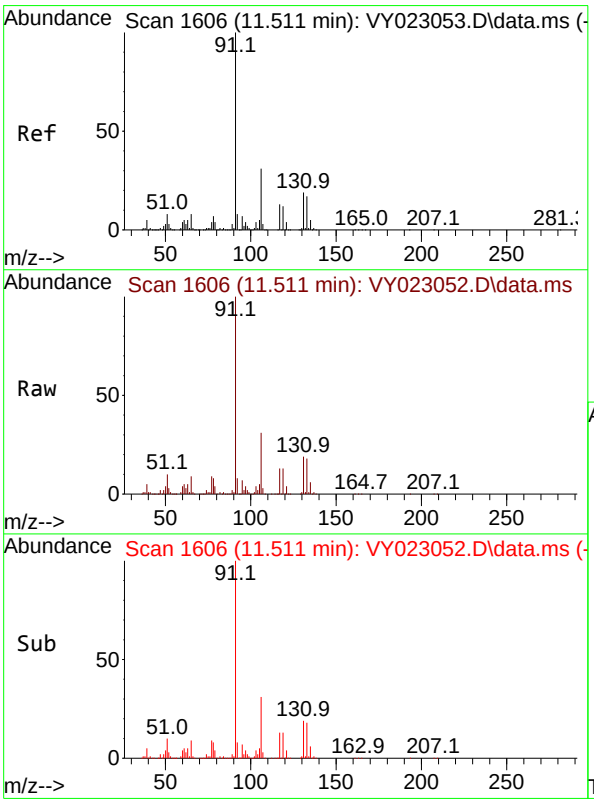
#65
Chlorobenzene
Concen: 20.690 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 332700

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

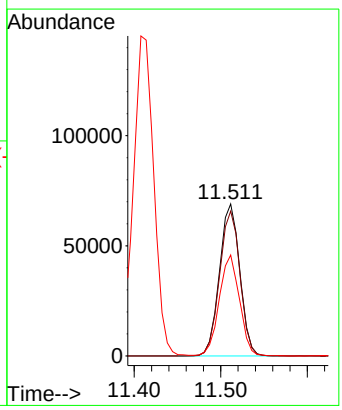


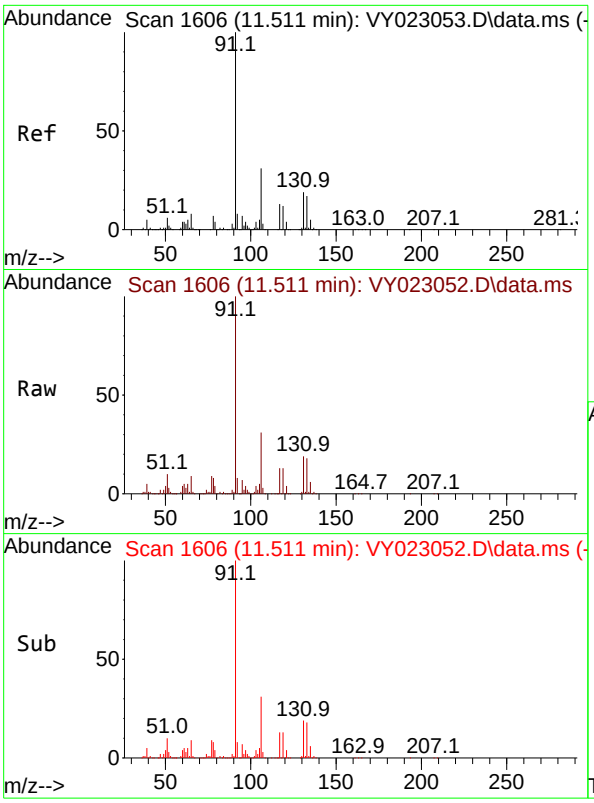


#66
1,1,1,2-Tetrachloroethane
Concen: 20.647 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:131 Resp: 112677

Ion	Ratio	Lower	Upper
131	100		
133	95.8	46.9	140.6
119	66.2	33.2	99.6



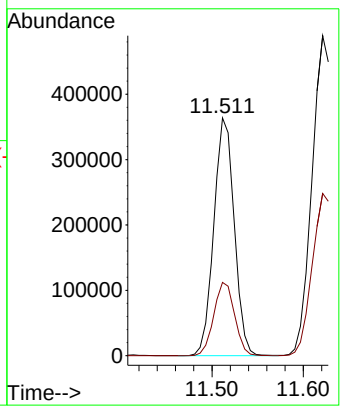


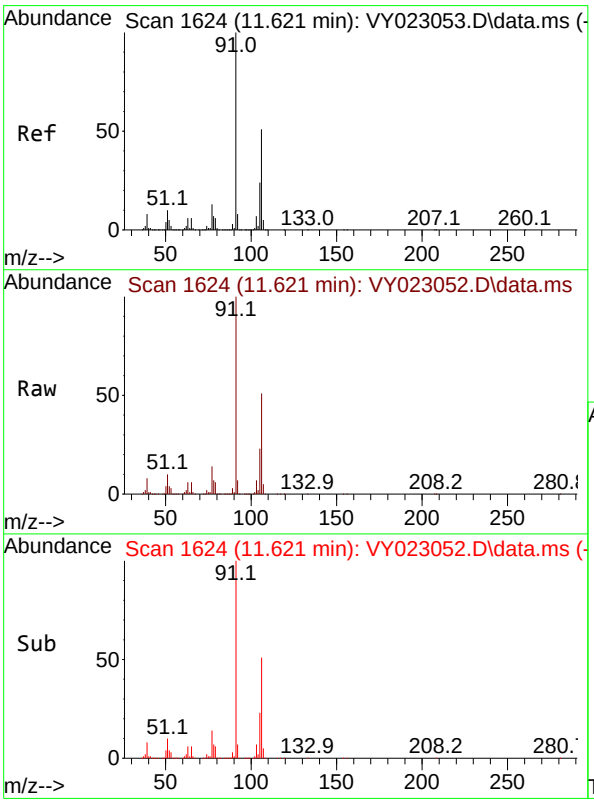
#67
Ethyl Benzene
Concen: 20.412 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 564855

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

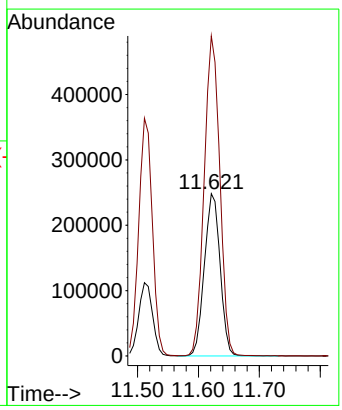


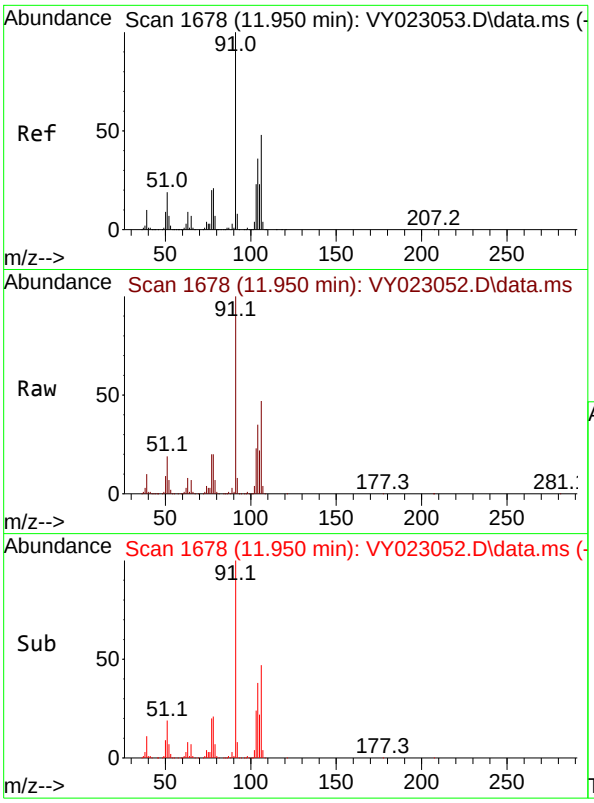


#68
m/p-Xylenes
Concen: 41.115 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:106 Resp: 444361

Ion	Ratio	Lower	Upper
106	100		
91	195.9	158.6	238.0



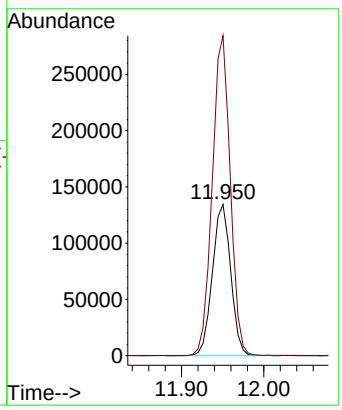


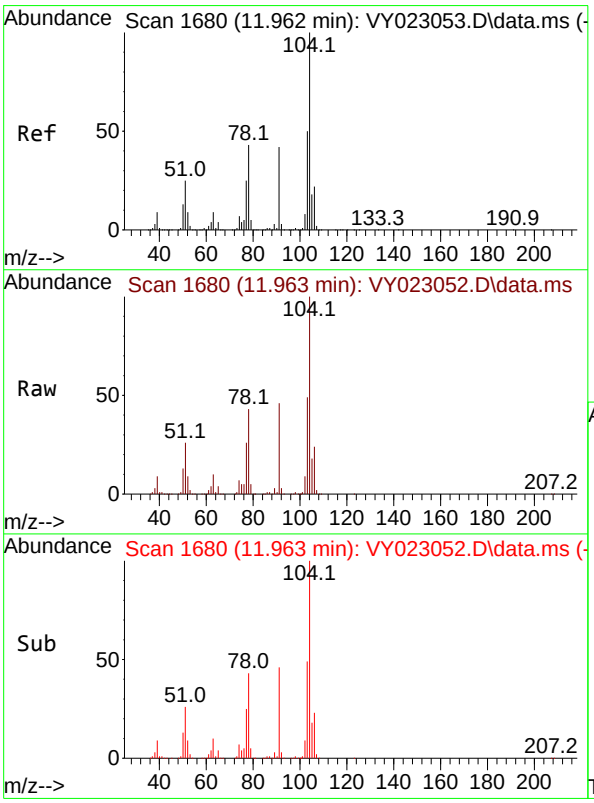
#69
o-Xylene
Concen: 20.513 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 207639

Ion	Ratio	Lower	Upper
106	100		
91	208.2	103.2	309.4

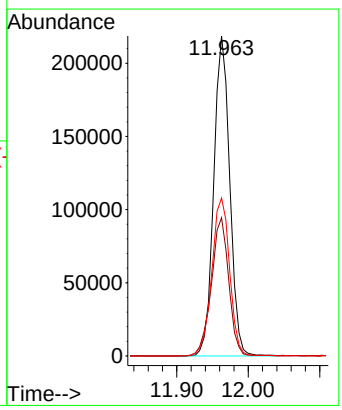


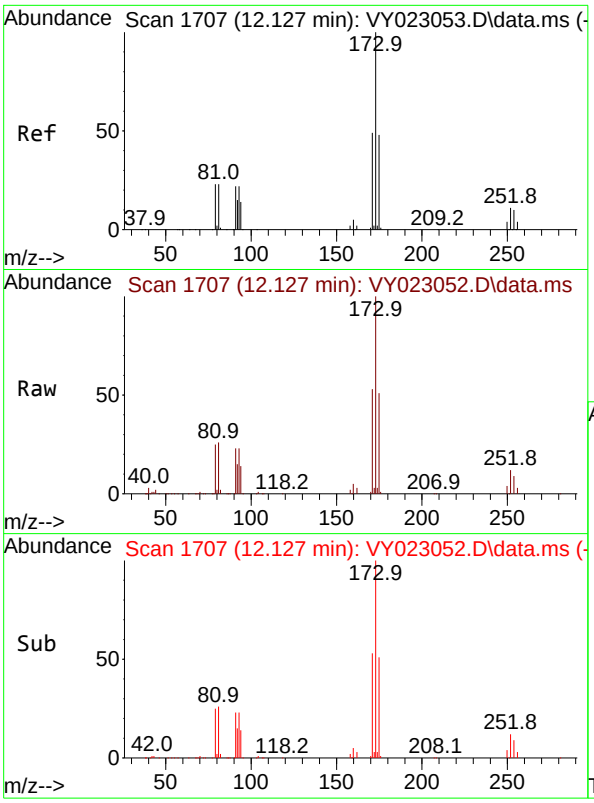


#70
Styrene
Concen: 20.532 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:104 Resp: 339891

Ion	Ratio	Lower	Upper
104	100		
78	47.0	38.5	57.7
103	54.9	43.7	65.5



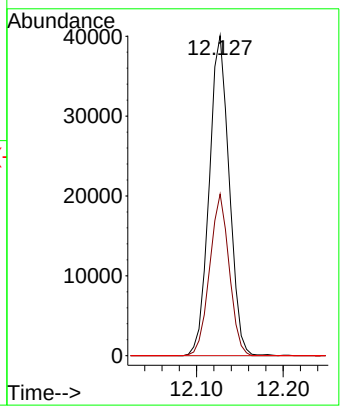


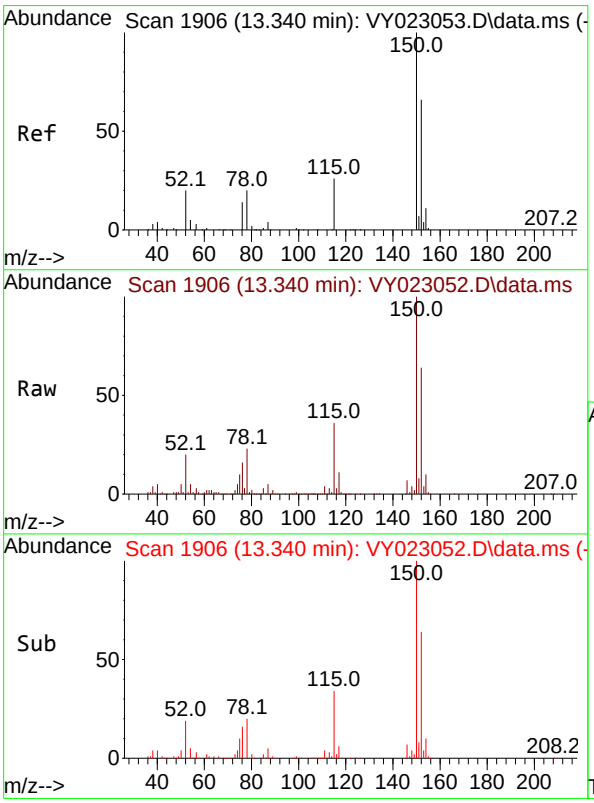
#71
Bromoform
Concen: 20.151 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 64275

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.9	71.7
254	0.0	0.1	0.1#

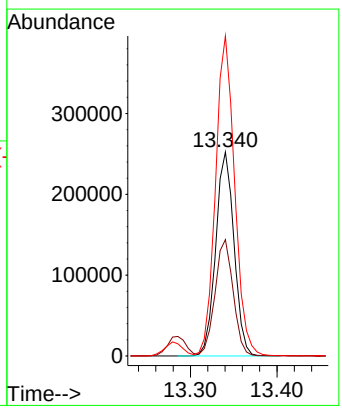


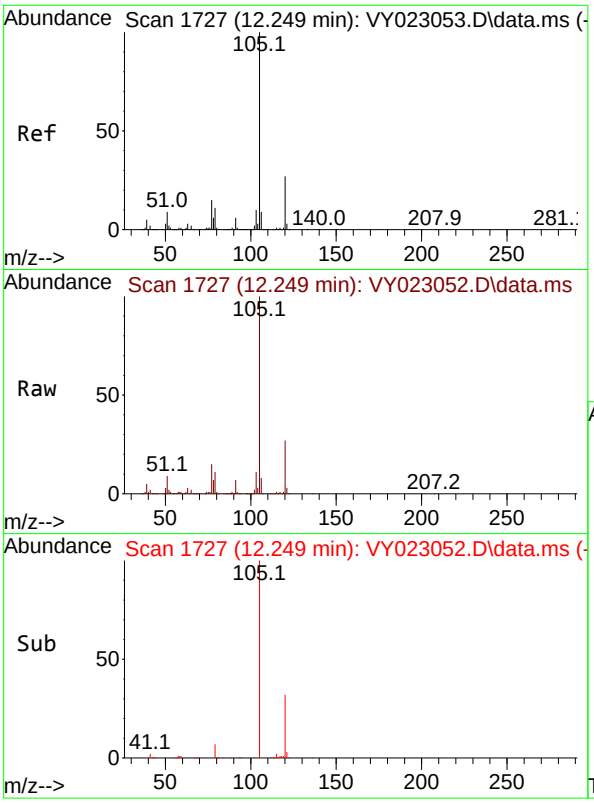


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:152 Resp: 370932

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	163.6	0.0	348.0



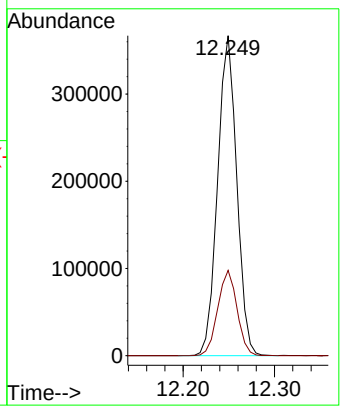


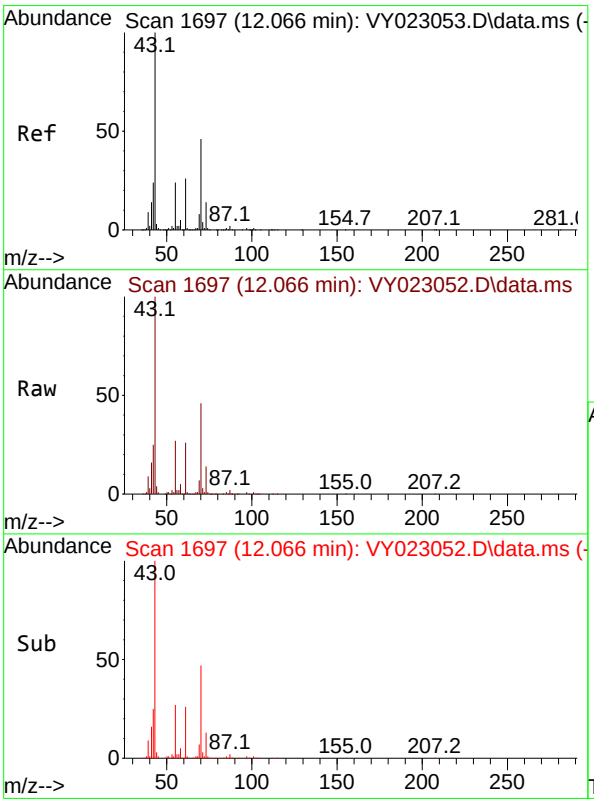
#73
Isopropylbenzene
Concen: 20.413 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 534421

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2

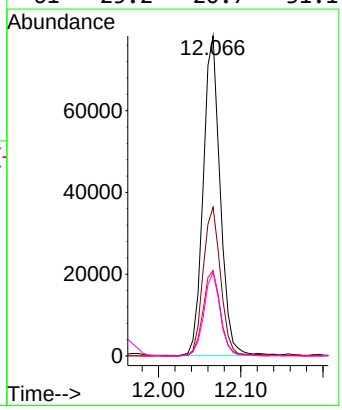


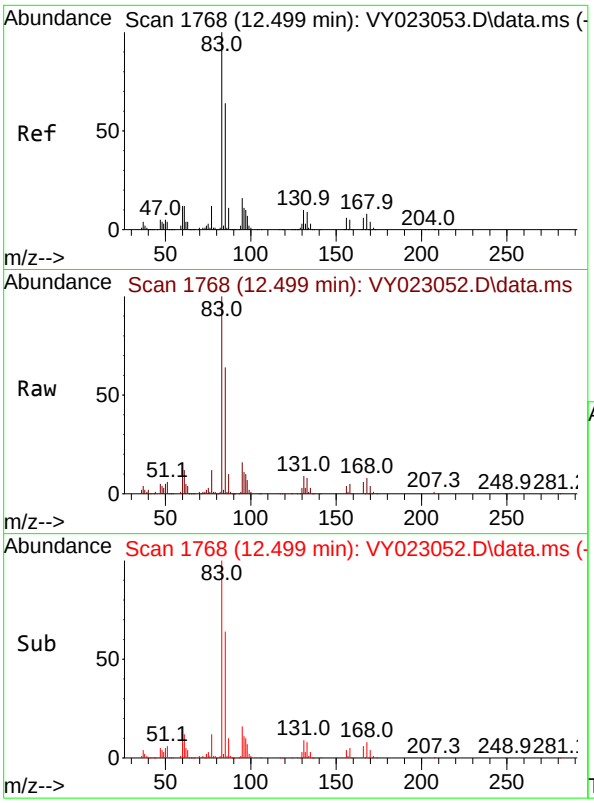


#74
N-amyl acetate
Concen: 20.227 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 112297

Ion	Ratio	Lower	Upper
43	100		
70	48.1	37.5	56.3
55	27.7	20.7	31.1
61	25.2	20.7	31.1



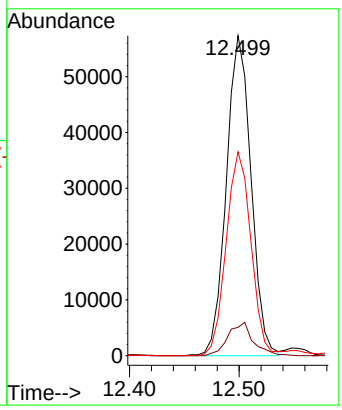


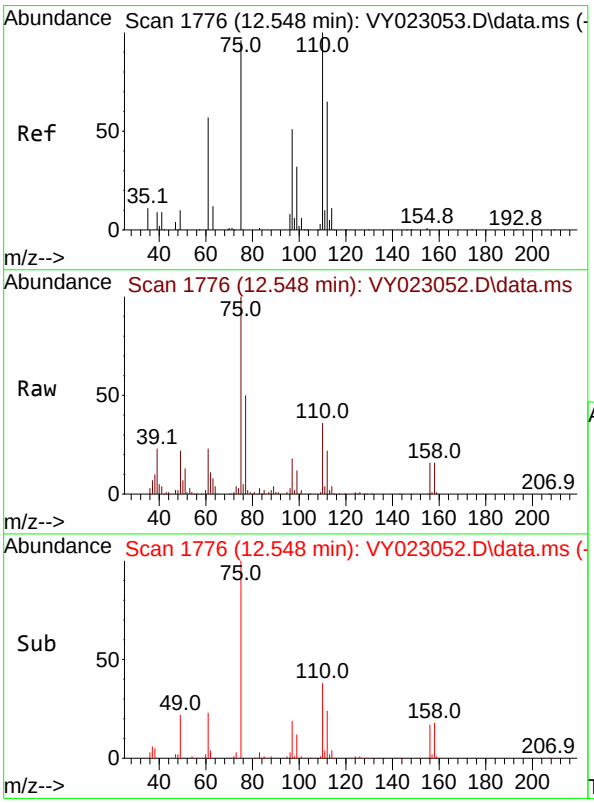
#75
1,1,2,2-Tetrachloroethane
Concen: 20.085 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 89782

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	63.8	31.8	95.3

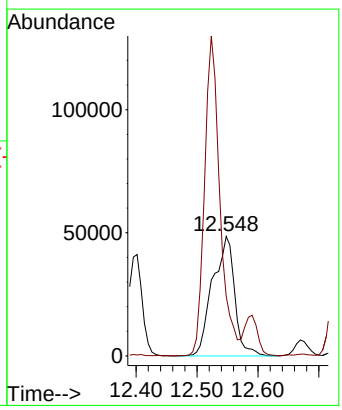


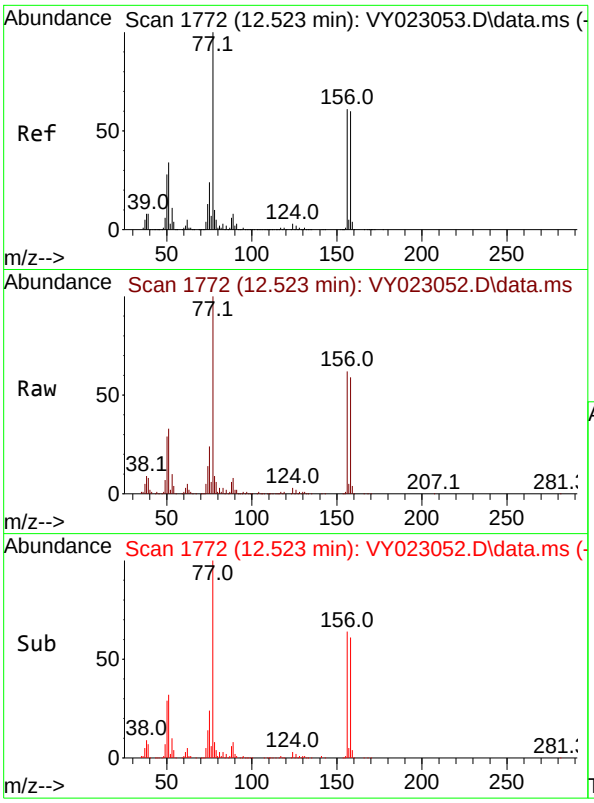


#76
1,2,3-Trichloropropane
Concen: 34.195 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 122494

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



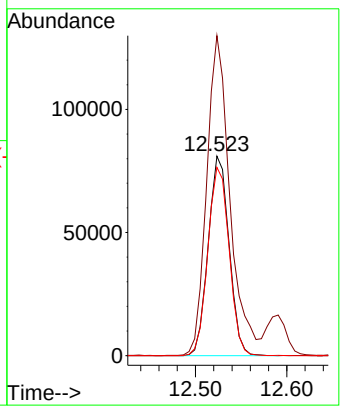


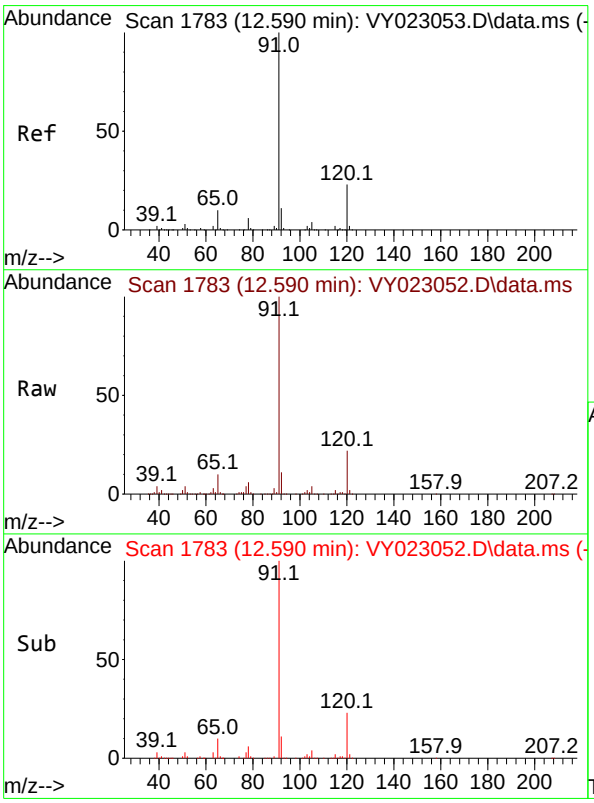
#77
Bromobenzene
Concen: 20.574 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 128501

Ion	Ratio	Lower	Upper
156	100		
77	177.5	88.1	264.4
158	96.2	48.0	144.0

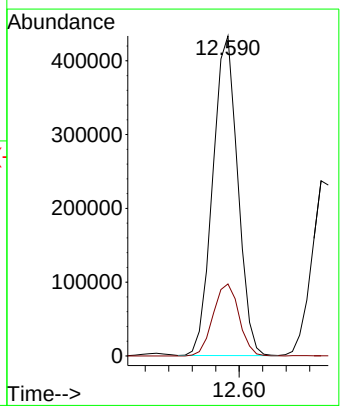


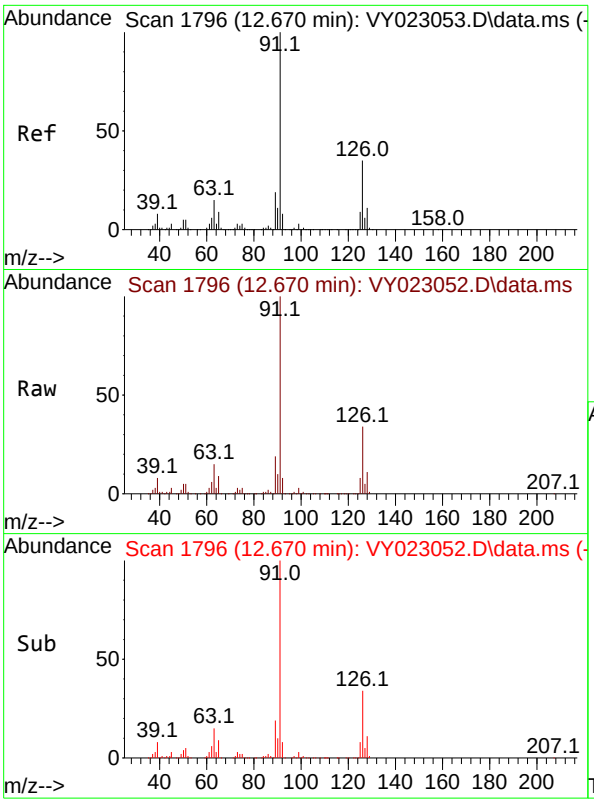


#78
n-propylbenzene
Concen: 20.550 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 640528

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.5



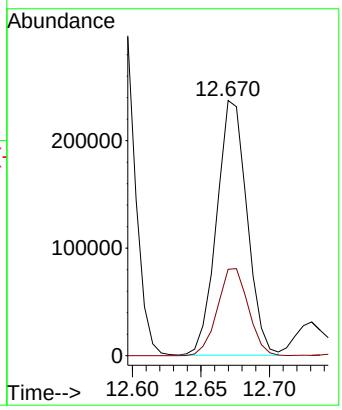


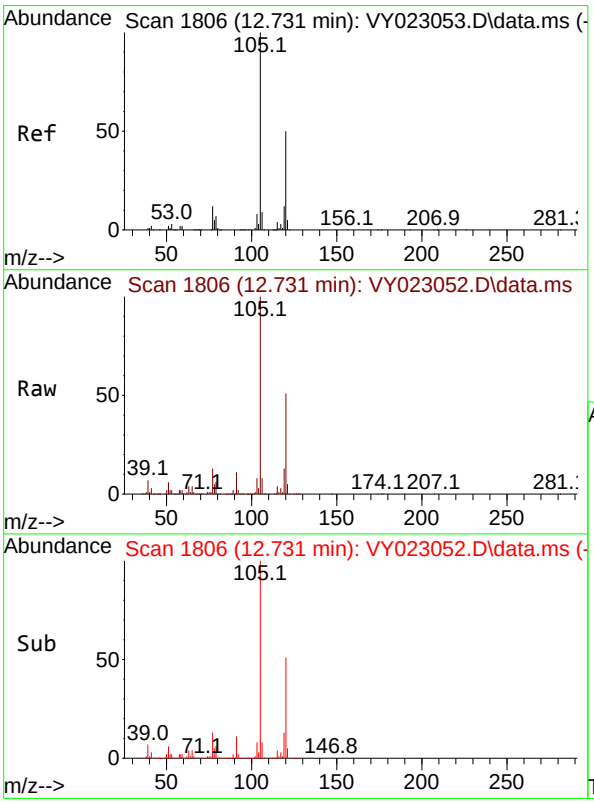
#79
2-Chlorotoluene
Concen: 20.471 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 365577

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

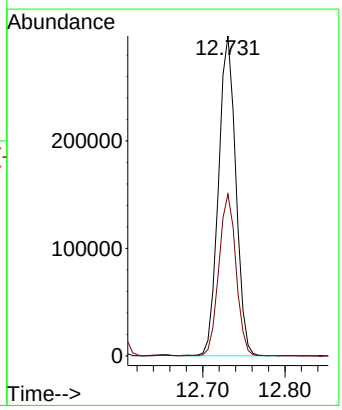


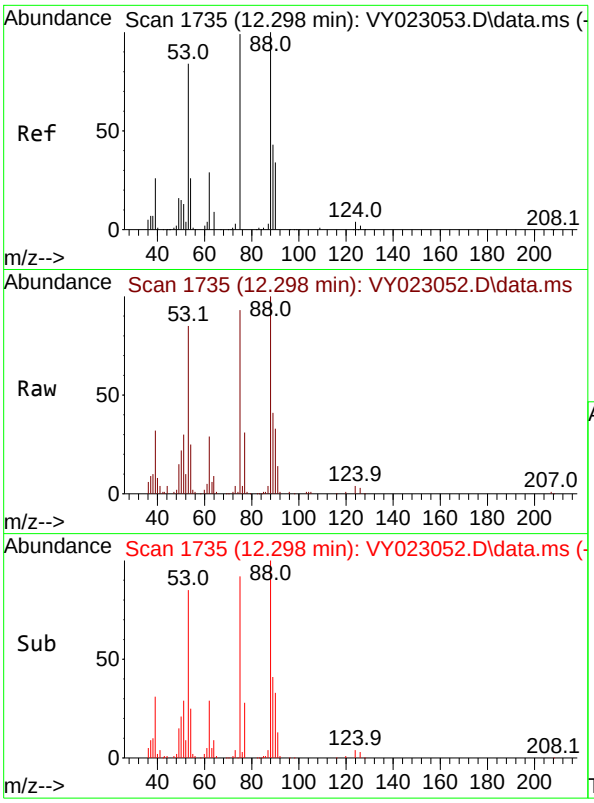


#80
1,3,5-Trimethylbenzene
Concen: 20.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 435074

Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.8	74.4



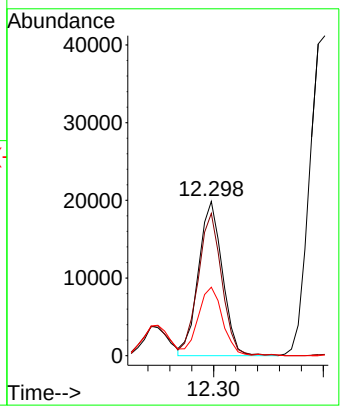


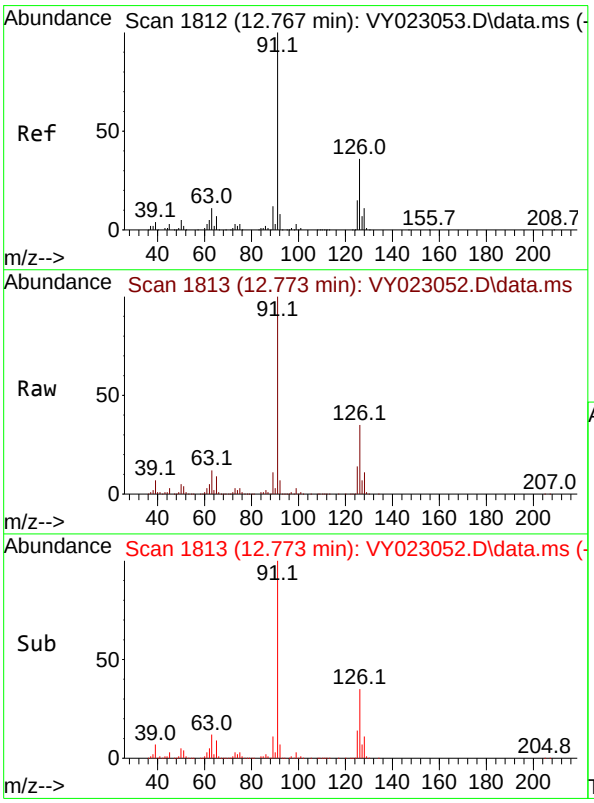
#81
trans-1,4-Dichloro-2-butene
Concen: 20.389 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 30153

Ion	Ratio	Lower	Upper
75	100		
53	91.7	70.8	106.2
89	46.2	38.1	57.1

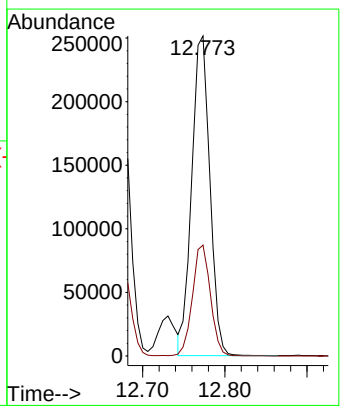


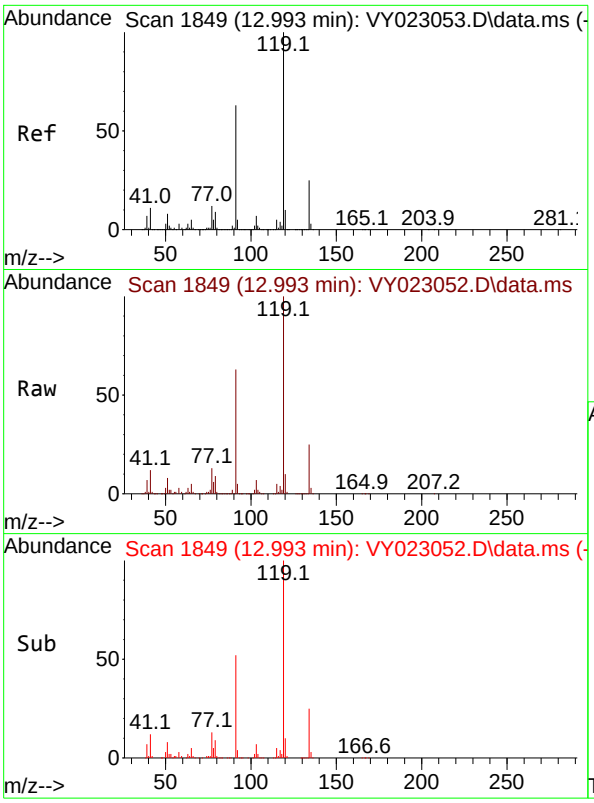


#82
4-Chlorotoluene
Concen: 20.822 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 385755

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	52.0



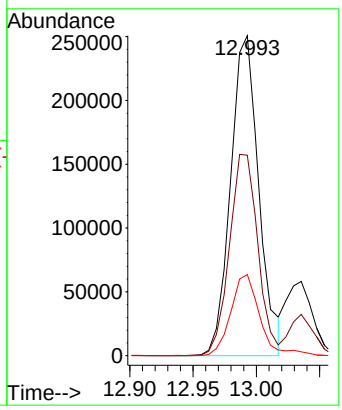


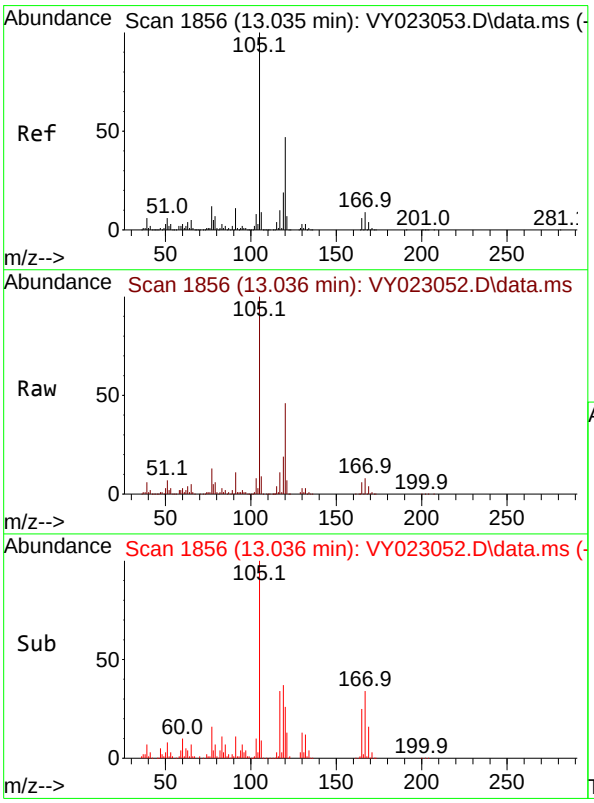
#83
tert-Butylbenzene
Concen: 20.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 389621

Ion	Ratio	Lower	Upper
119	100		
91	63.4	31.6	94.8
134	26.1	12.9	38.7

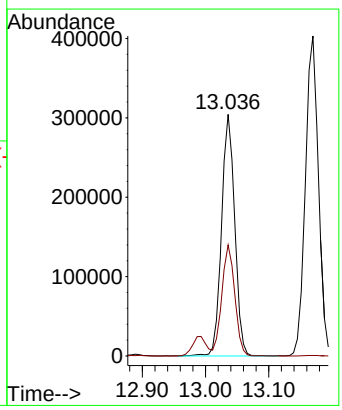


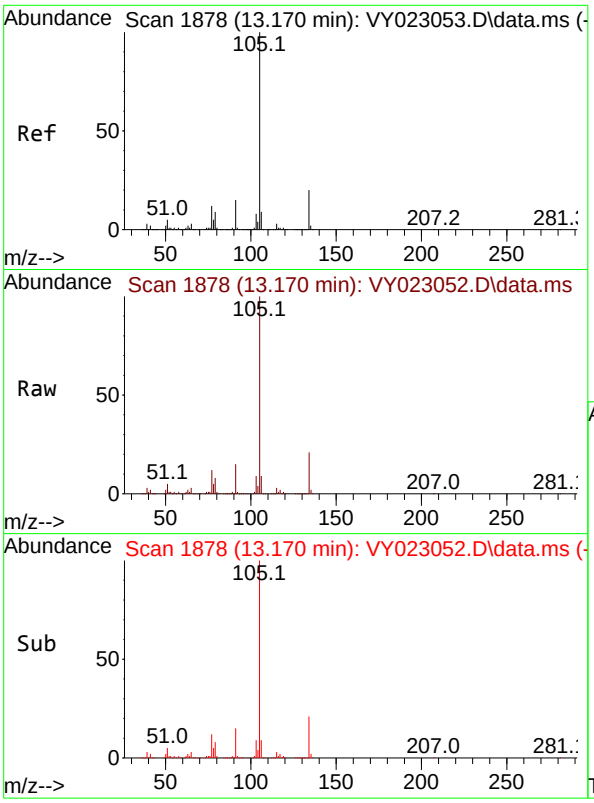


#84
1,2,4-Trimethylbenzene
Concen: 20.814 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 438392

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.0	69.0



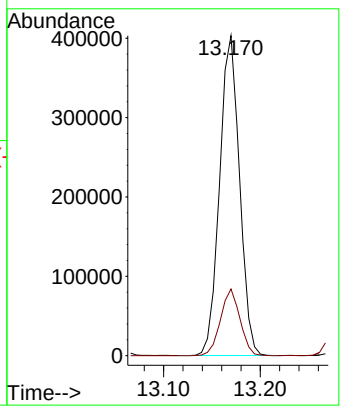


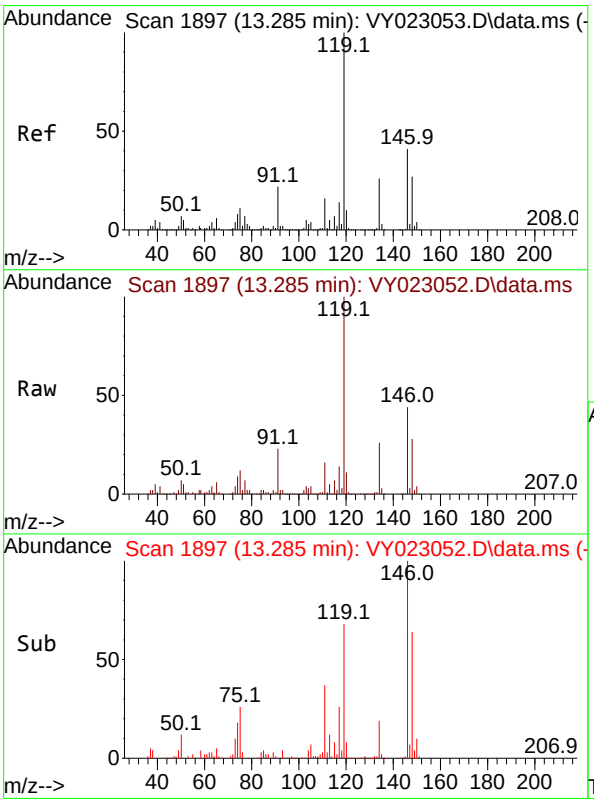
#85
sec-Butylbenzene
Concen: 20.512 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 575804

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4

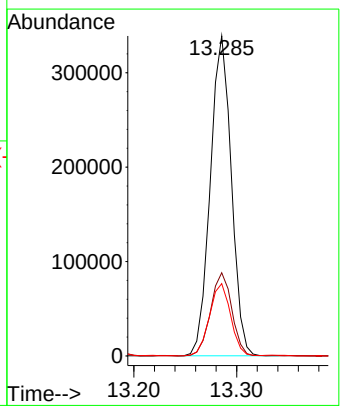


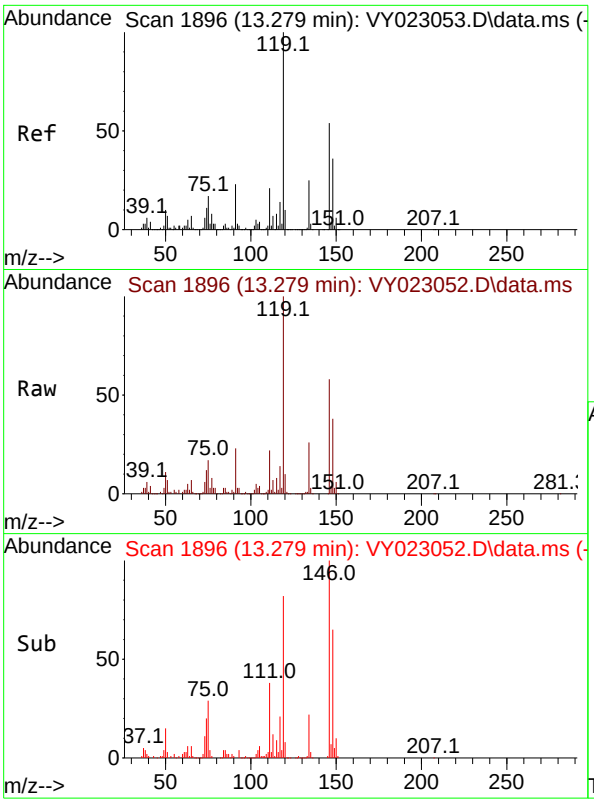


#86
p-Isopropyltoluene
Concen: 20.640 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:119 Resp: 480937

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.6
91	22.6	11.3	33.8



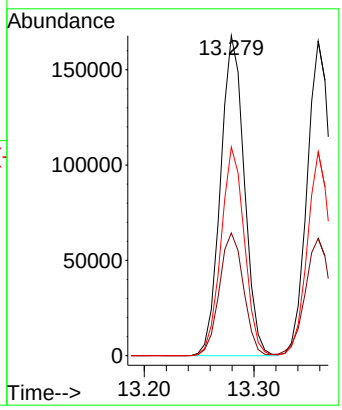


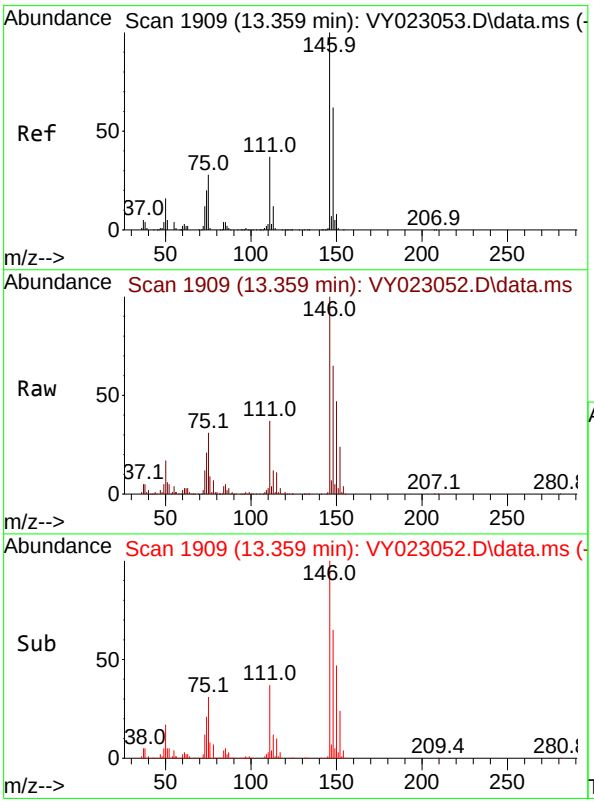
#87
1,3-Dichlorobenzene
Concen: 20.497 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 252452

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	64.3	32.5	97.5

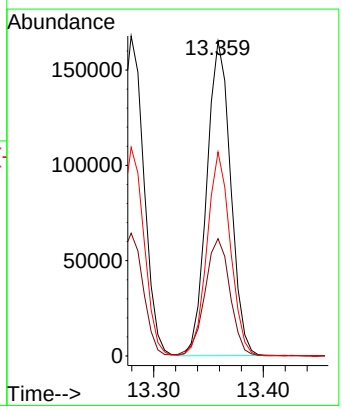


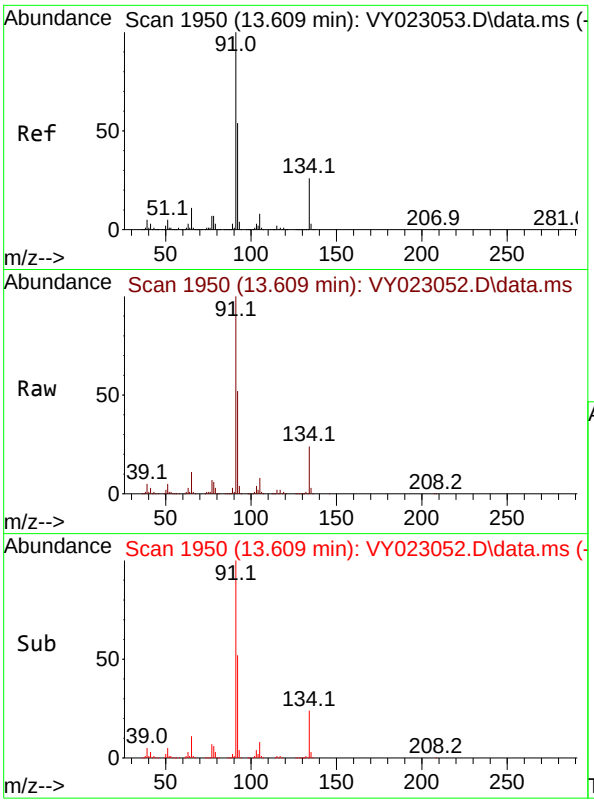


#88
1,4-Dichlorobenzene
Concen: 20.403 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 249280

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.1
148	63.5	31.6	94.7



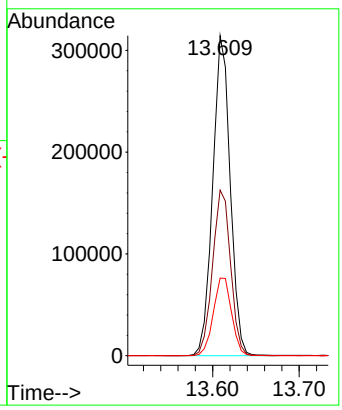


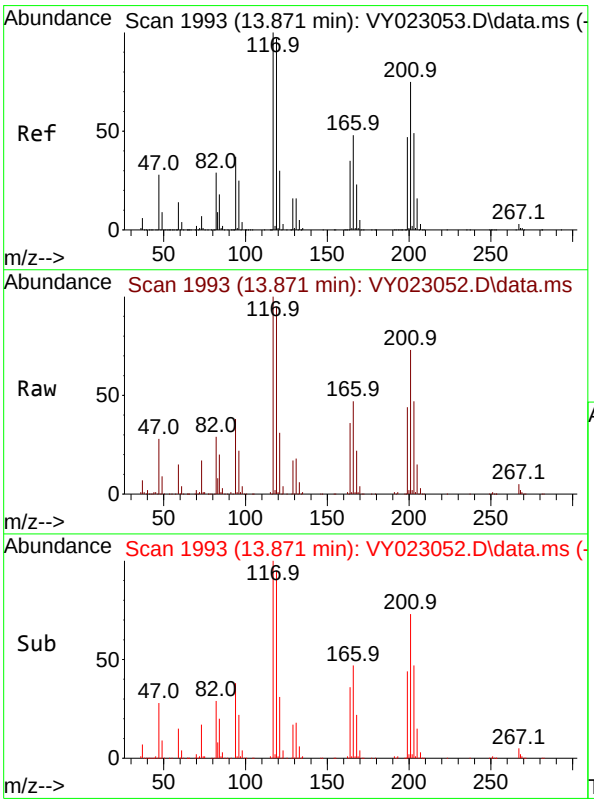
#89
n-Butylbenzene
Concen: 20.605 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 440963

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.9	80.7
134	25.4	13.2	39.5

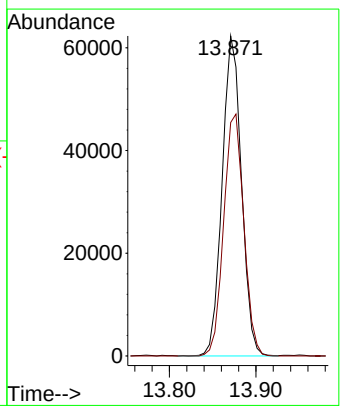


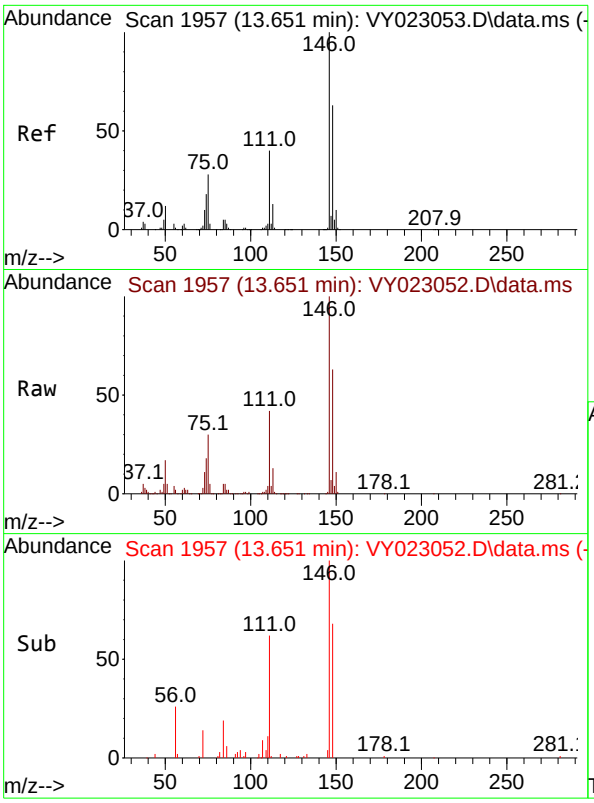


#90
Hexachloroethane
Concen: 20.226 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 96478

Ion	Ratio	Lower	Upper
117	100		
201	78.5	38.4	115.1



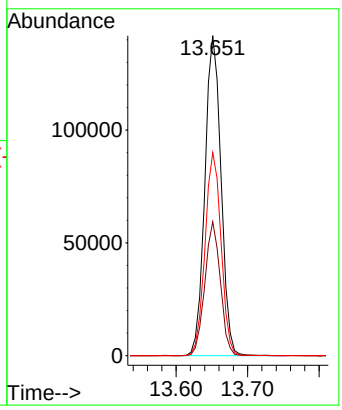


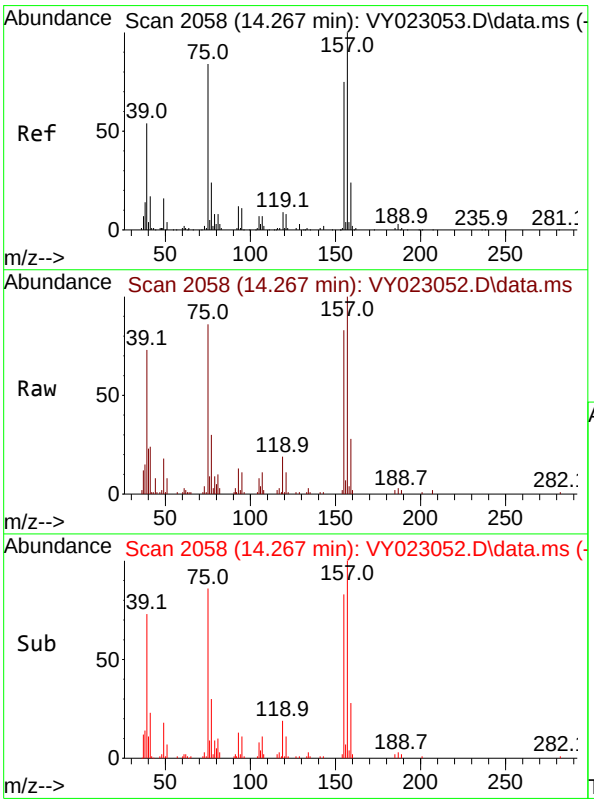
#91
1,2-Dichlorobenzene
Concen: 20.552 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 222000

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.3	60.8
148	63.2	32.2	96.6

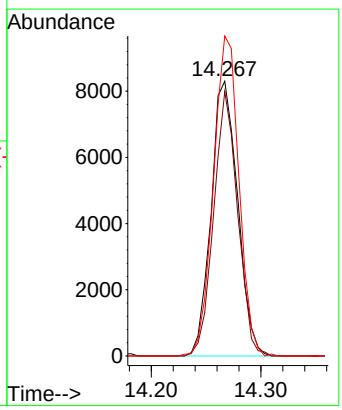


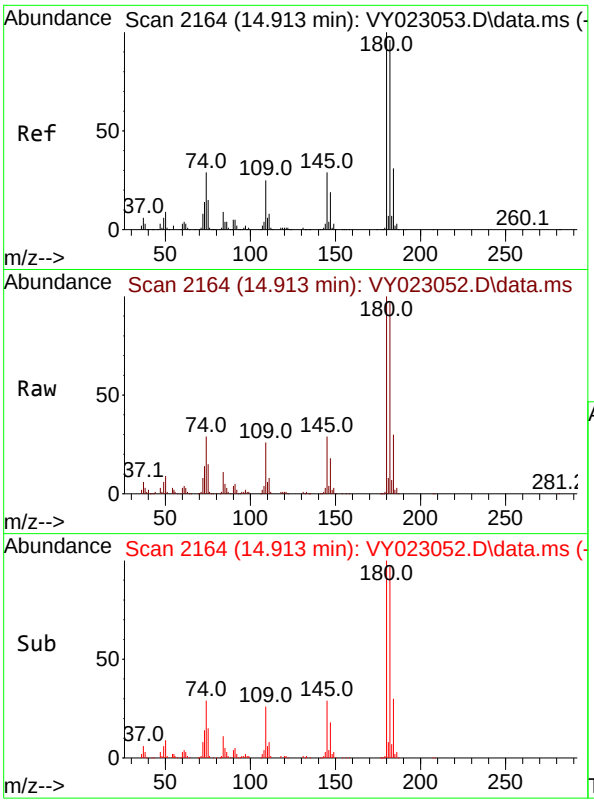


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.076 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 13973

Ion	Ratio	Lower	Upper
75	100		
155	86.7	43.9	131.6
157	111.6	57.2	171.6



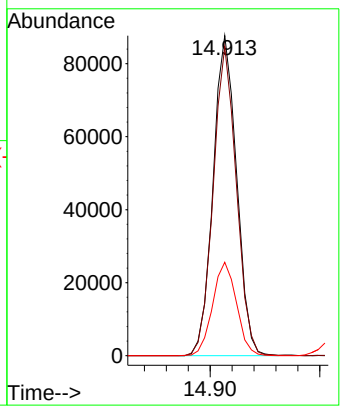


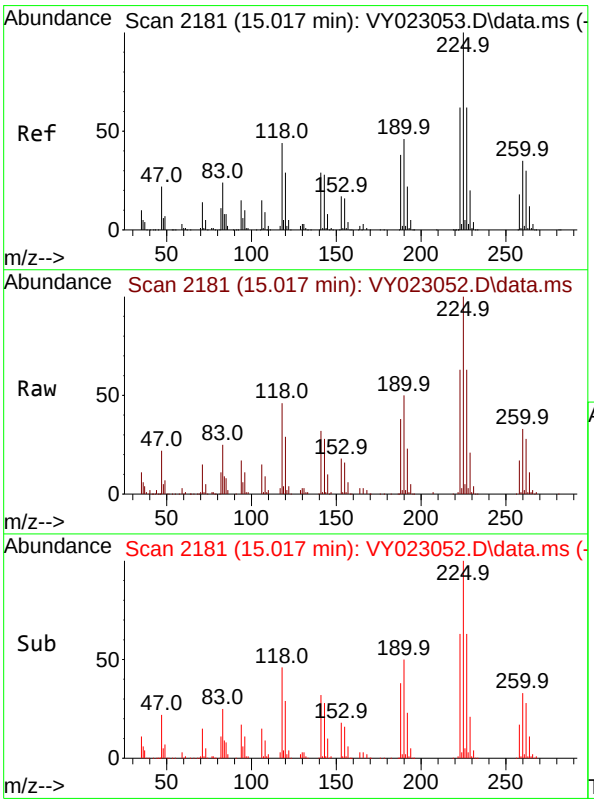
#93
1,2,4-Trichlorobenzene
Concen: 20.464 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 130718

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.8	140.4
145	29.6	14.4	43.4

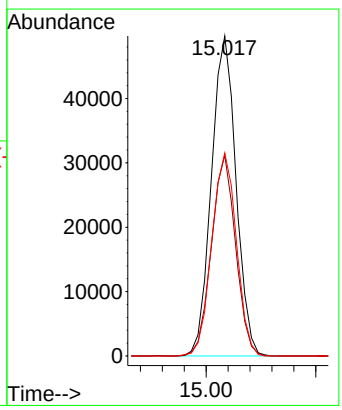


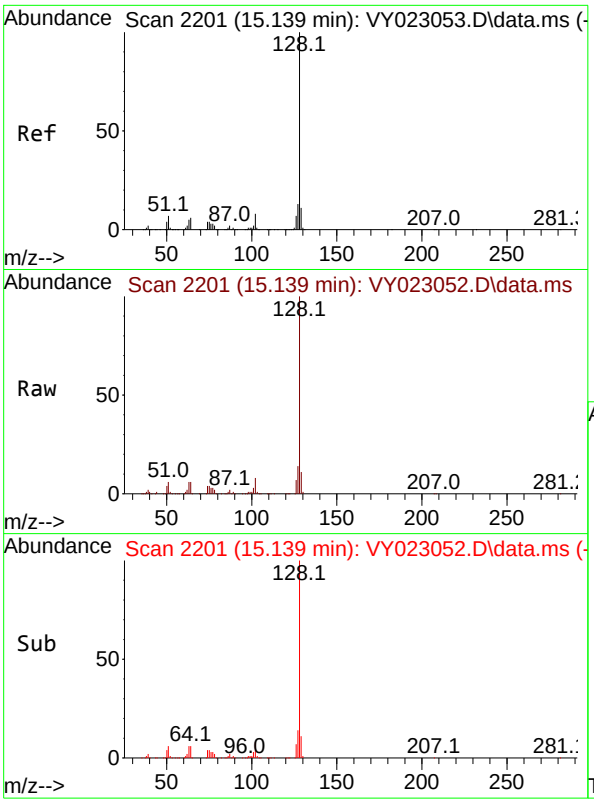


#94
Hexachlorobutadiene
Concen: 20.650 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:225 Resp: 77511

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.3	93.8
227	63.6	31.5	94.5



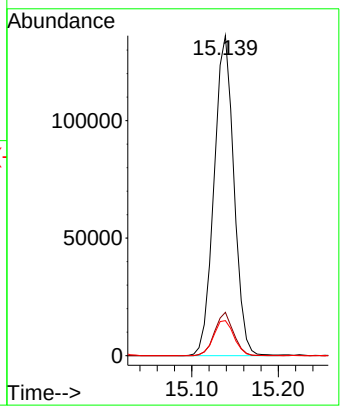


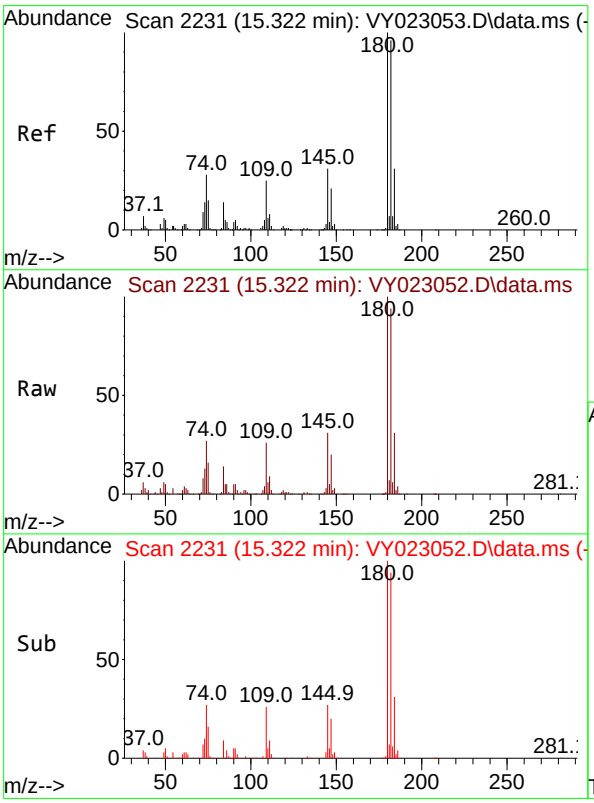
#95
Naphthalene
Concen: 19.915 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 216923

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.4	9.0	13.4

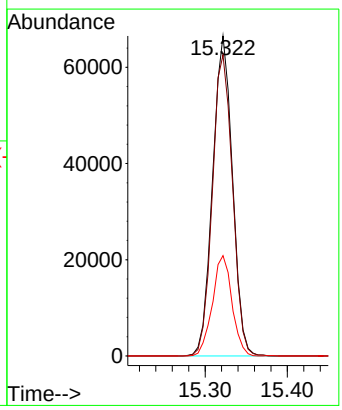




#96
1,2,3-Trichlorobenzene
Concen: 20.258 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:180 Resp: 111506

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.7
145	31.0	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	539282	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	856556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	751969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	377839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	249044	48.455	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.628	113	251193	49.010	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.020%			
50) Toluene-d8	10.103	98	979082	48.899	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.800%			
62) 4-Bromofluorobenzene	12.401	95	316770	49.194	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	187863	42.677	ug/l	100
3) Chloromethane	2.068	50	327481	45.932	ug/l	100
4) Vinyl Chloride	2.196	62	414609	47.044	ug/l	100
5) Bromomethane	2.592	94	291336	44.263	ug/l	100
6) Chloroethane	2.726	64	277698	47.394	ug/l	100
7) Trichlorofluoromethane	3.049	101	505137	47.136	ug/l	100
8) Diethyl Ether	3.446	74	135373	47.747	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	249063	47.109	ug/l	100
10) Methyl Iodide	3.994	142	296087	51.899	ug/l	100
11) Tert butyl alcohol	4.860	59	85712	243.383	ug/l	100
12) 1,1-Dichloroethene	3.781	96	249492	48.009	ug/l	100
13) Acrolein	3.647	56	121185	234.966	ug/l	100
14) Allyl chloride	4.378	41	369720	48.350	ug/l	100
15) Acrylonitrile	5.049	53	285675	247.839	ug/l	100
16) Acetone	3.860	43	278510	250.122	ug/l	100
17) Carbon Disulfide	4.098	76	804119	47.456	ug/l	100
18) Methyl Acetate	4.378	43	173642	52.403	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	666514	49.495	ug/l	100
20) Methylene Chloride	4.604	84	275004	47.415	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	282272	48.334	ug/l	100
22) Diisopropyl ether	6.018	45	815359	49.070	ug/l	100
23) Vinyl Acetate	5.951	43	2268046	246.849	ug/l	100
24) 1,1-Dichloroethane	5.909	63	495073	48.732	ug/l	100
25) 2-Butanone	6.884	43	382711	252.715	ug/l	100
26) 2,2-Dichloropropane	6.884	77	425773	48.571	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	327272	48.474	ug/l	100
28) Bromochloromethane	7.244	49	196667	48.795	ug/l	100
29) Tetrahydrofuran	7.256	42	235169	250.523	ug/l	100
30) Chloroform	7.415	83	508641	48.547	ug/l	100
31) Cyclohexane	7.695	56	440266	45.989	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	451521	48.569	ug/l	100
36) 1,1-Dichloropropene	7.829	75	371204	48.734	ug/l	100
37) Ethyl Acetate	6.982	43	160980	50.311	ug/l	100
38) Carbon Tetrachloride	7.817	117	399463	48.285	ug/l	100
39) Methylcyclohexane	9.103	83	484691	48.321	ug/l	100
40) Benzene	8.073	78	1142910	48.683	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	94123	50.916	ug/l		100
42) 1,2-Dichloroethane	8.152	62	296907	48.627	ug/l		100
43) Isopropyl Acetate	8.195	43	319600	49.419	ug/l		100
44) Trichloroethene	8.859	130	292421	48.199	ug/l		100
45) 1,2-Dichloropropane	9.140	63	264354	48.938	ug/l		100
46) Dibromomethane	9.225	93	152822	49.291	ug/l		100
47) Bromodichloromethane	9.420	83	393523	49.327	ug/l		100
48) Methyl methacrylate	9.213	41	160792	51.958	ug/l		100
49) 1,4-Dioxane	9.225	88	36249	997.124	ug/l		100
51) 4-Methyl-2-Pentanone	9.993	43	853025	255.710	ug/l		100
52) Toluene	10.164	92	735326	49.315	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	359698	49.790	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	424834	49.731	ug/l		100
55) 1,1,2-Trichloroethane	10.566	97	204368	49.261	ug/l		100
56) Ethyl methacrylate	10.432	69	273801	51.576	ug/l		100
57) 1,3-Dichloropropane	10.713	76	346510	49.249	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	663351	264.906	ug/l		100
59) 2-Hexanone	10.755	43	584223	257.194	ug/l		100
60) Dibromochloromethane	10.908	129	272171	49.719	ug/l		100
61) 1,2-Dibromoethane	11.005	107	193398	49.598	ug/l		100
64) Tetrachloroethene	10.640	164	327271	48.740	ug/l		100
65) Chlorobenzene	11.438	112	793490	48.920	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	271839	49.381	ug/l		100
67) Ethyl Benzene	11.511	91	1397704	50.073	ug/l		100
68) m/p-Xylenes	11.621	106	1080401	99.103	ug/l		100
69) o-Xylene	11.950	106	516002	50.536	ug/l		100
70) Styrene	11.962	104	844409	50.569	ug/l		100
71) Bromoform	12.127	173	160769	49.969	ug/l	#	100
73) Isopropylbenzene	12.249	105	1324313	49.660	ug/l		100
74) N-amyl acetate	12.066	43	289914	51.264	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	220853	48.503	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	303093	83.064	ug/l	#	100
77) Bromobenzene	12.523	156	312706	49.152	ug/l		100
78) n-propylbenzene	12.590	91	1593368	50.186	ug/l		100
79) 2-Chlorotoluene	12.670	91	899967	49.473	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1080333	50.126	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	74567	49.500	ug/l		100
82) 4-Chlorotoluene	12.767	91	930329	49.299	ug/l		100
83) tert-Butylbenzene	12.993	119	978031	50.244	ug/l		100
84) 1,2,4-Trimethylbenzene	13.035	105	1071926	49.963	ug/l		100
85) sec-Butylbenzene	13.170	105	1425553	49.854	ug/l		100
86) p-Isopropyltoluene	13.285	119	1196645	50.417	ug/l		100
87) 1,3-Dichlorobenzene	13.279	146	608249	48.481	ug/l		100
88) 1,4-Dichlorobenzene	13.359	146	605079	48.618	ug/l		100
89) n-Butylbenzene	13.609	91	1099864	50.454	ug/l		100
90) Hexachloroethane	13.871	117	238005	48.984	ug/l		100
91) 1,2-Dichlorobenzene	13.651	146	536637	48.772	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35867	50.592	ug/l		100
93) 1,2,4-Trichlorobenzene	14.913	180	320080	49.192	ug/l		100
94) Hexachlorobutadiene	15.017	225	185604	48.543	ug/l		100
95) Naphthalene	15.139	128	562363	50.685	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	272154	48.540	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

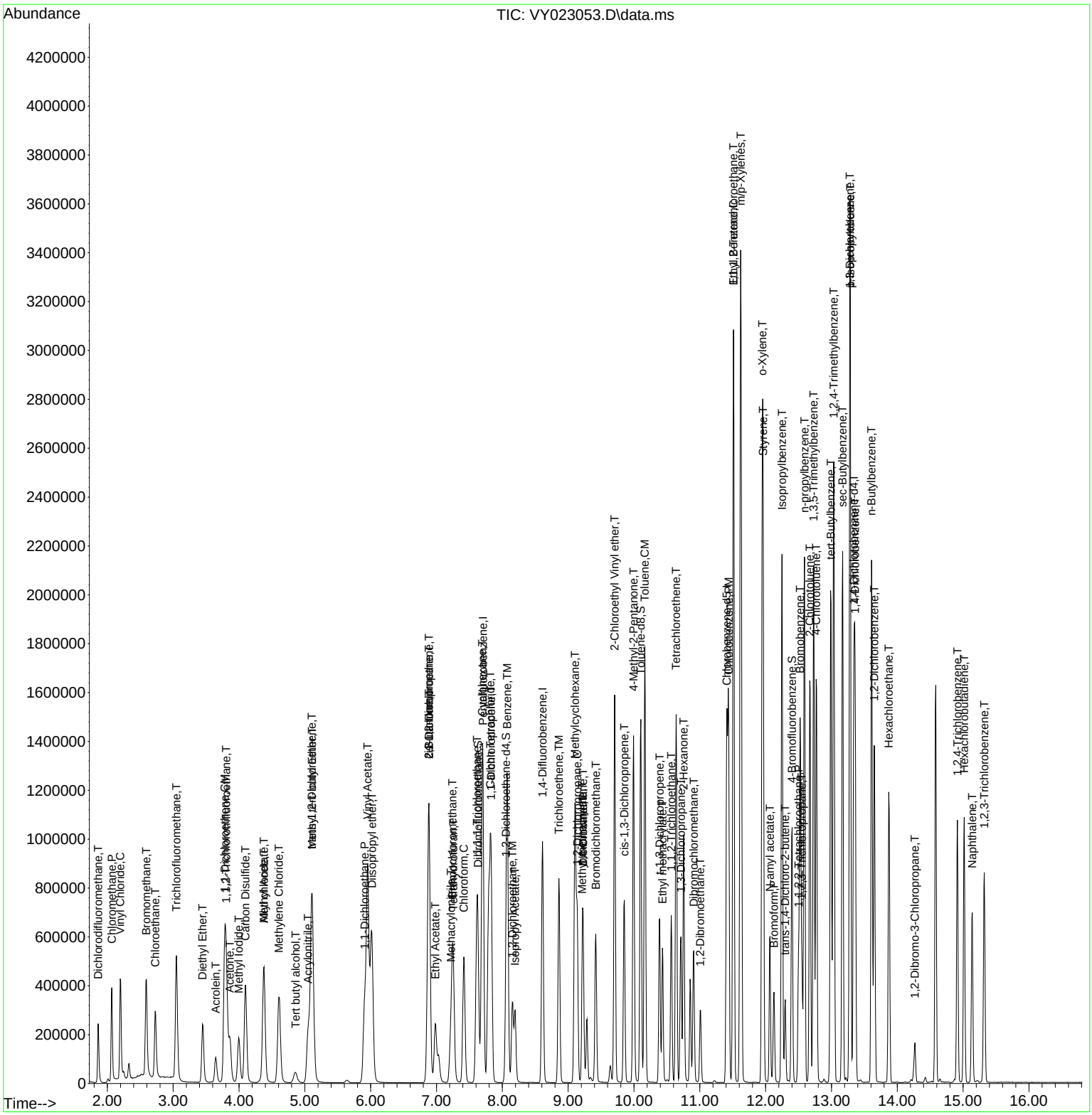
(#) = qualifier out of range (m) = manual integration (+) = signals summed

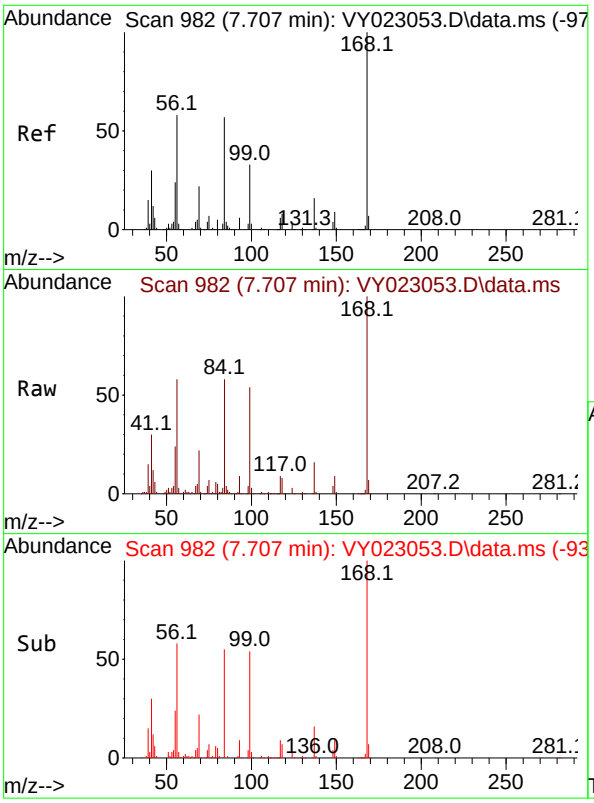
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



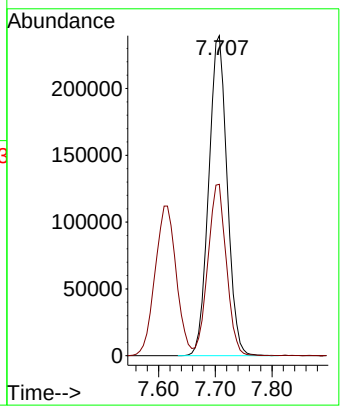


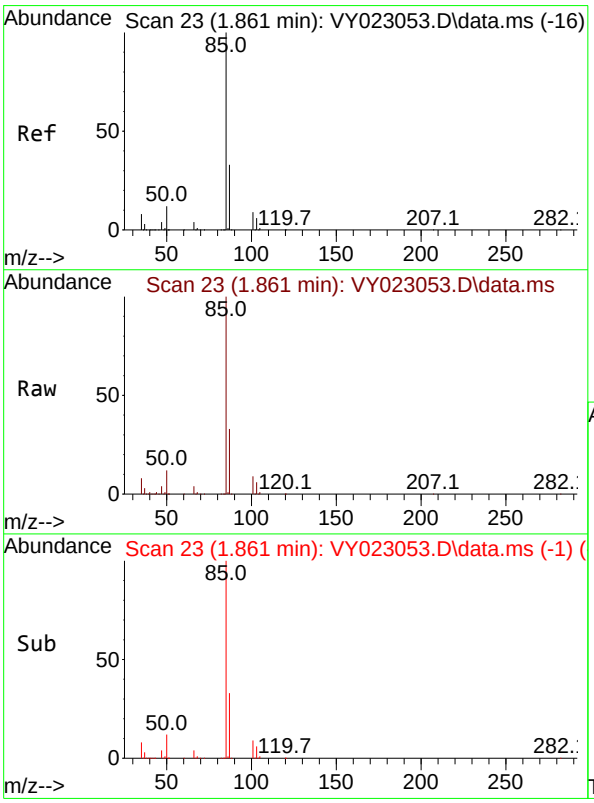
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 539282

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2

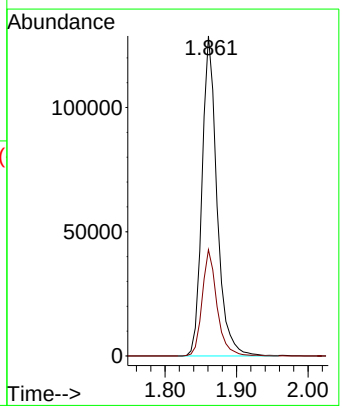


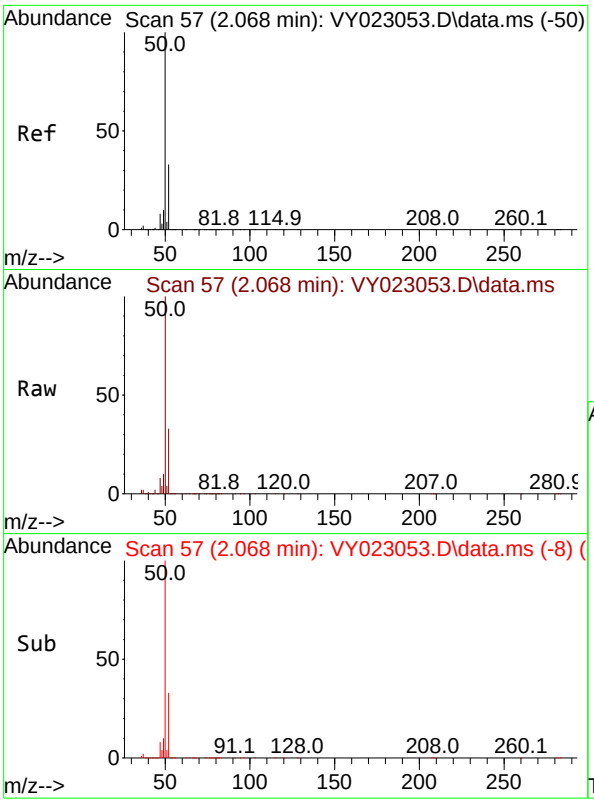


#2
Dichlorodifluoromethane
Concen: 42.677 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 85 Resp: 187863

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.6	49.8



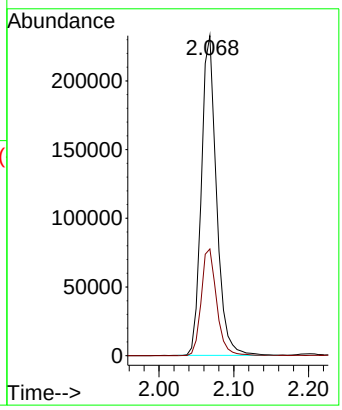


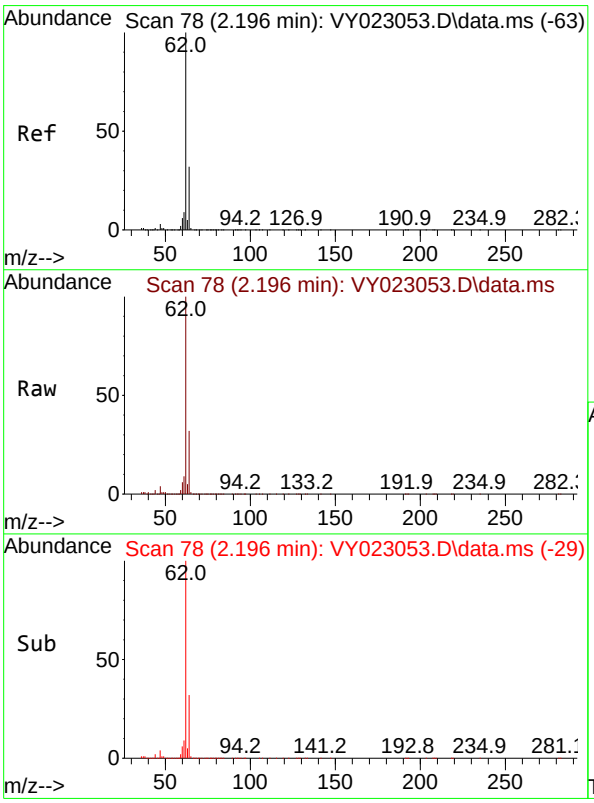
#3
Chloromethane
Concen: 45.932 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 327481

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.7	40.1

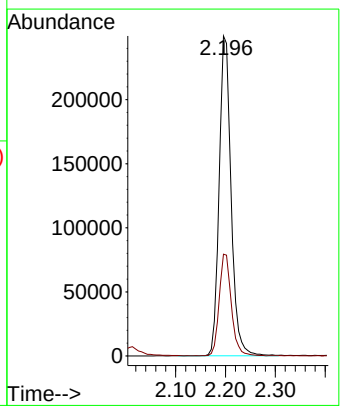


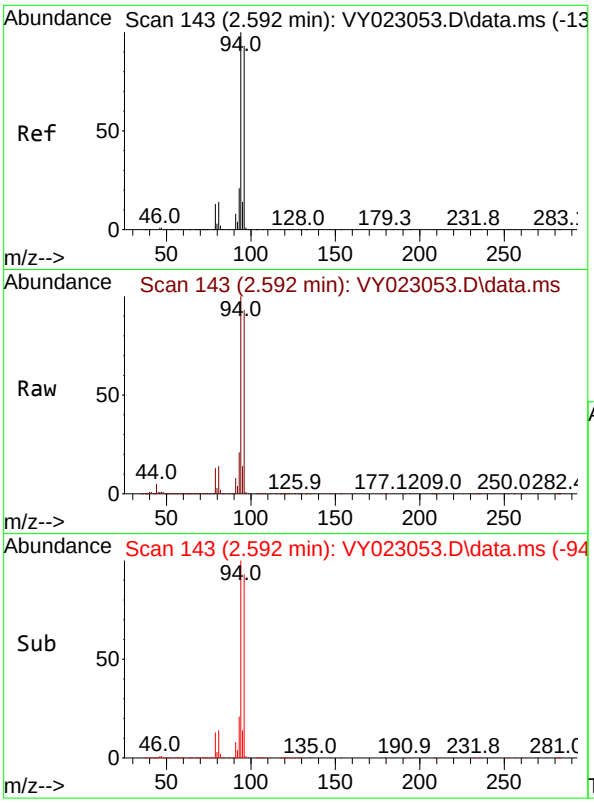


#4
Vinyl Chloride
Concen: 47.044 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 414609

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



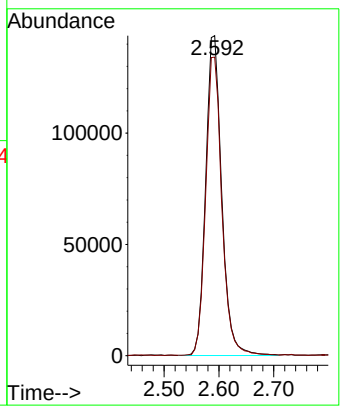


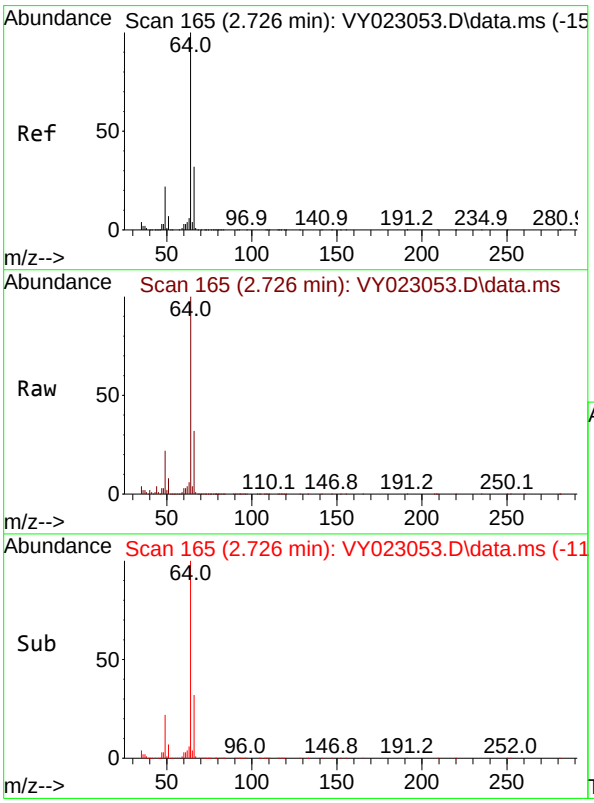
#5
Bromomethane
Concen: 44.263 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 291336

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0

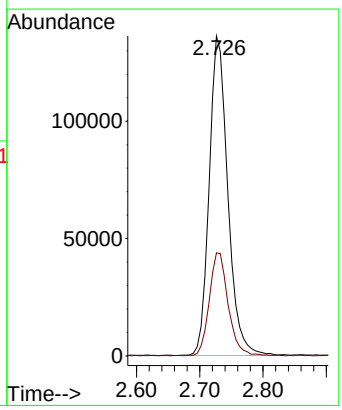


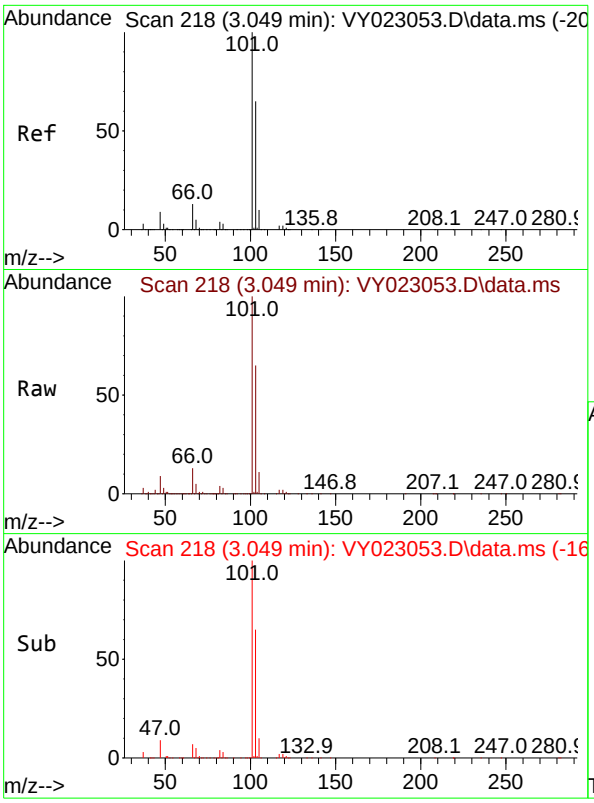


#6
Chloroethane
Concen: 47.394 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 64 Resp: 277698

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.8	38.6



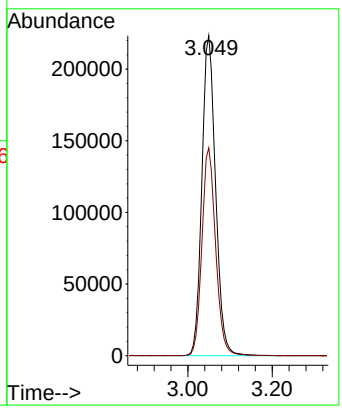


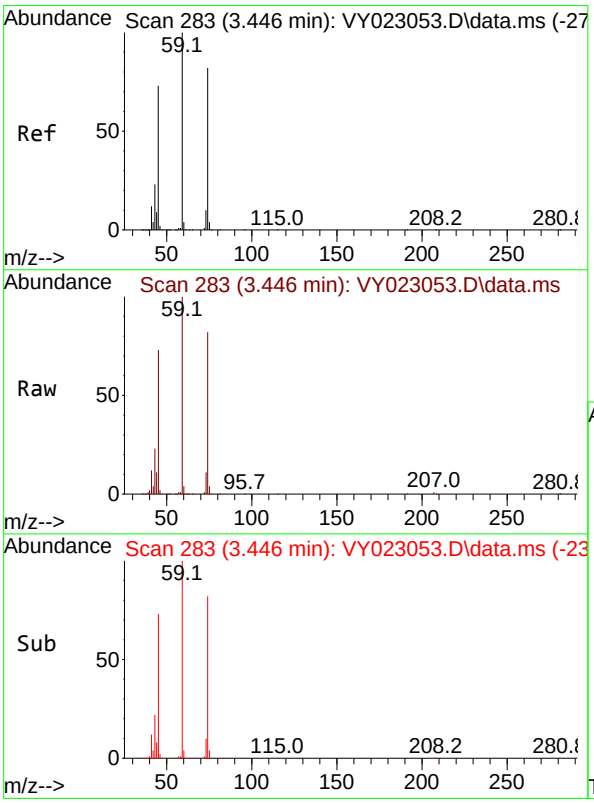
#7
Trichlorofluoromethane
Concen: 47.136 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 505137

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.9	77.9

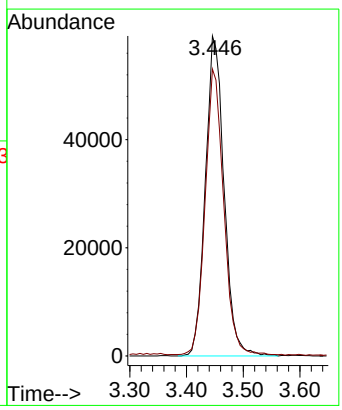


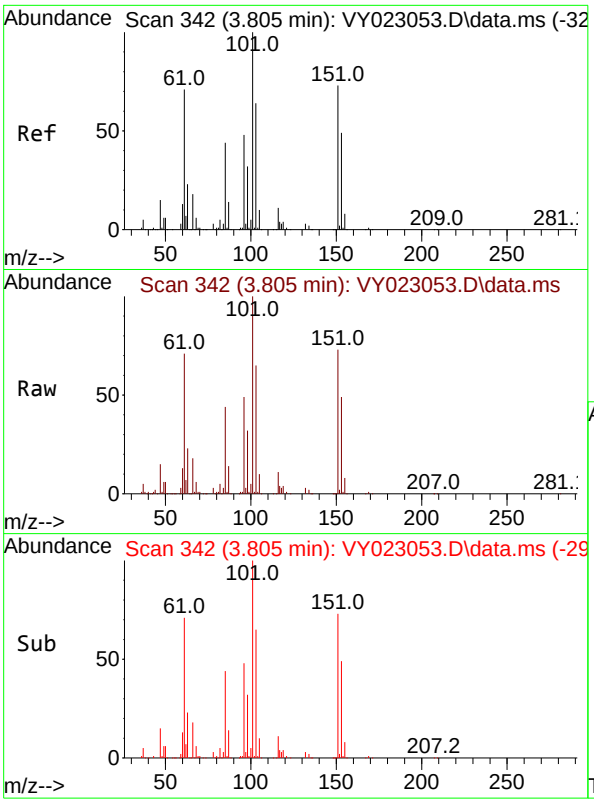


#8
Diethyl Ether
Concen: 47.747 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 74 Resp: 135373

Ion	Ratio	Lower	Upper
74	100		
45	88.8	44.4	133.2



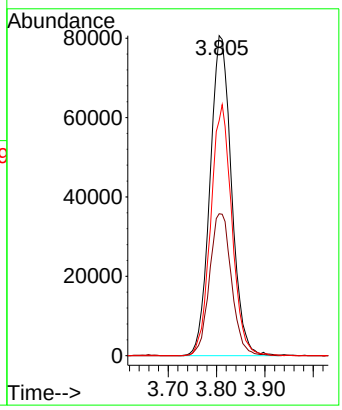


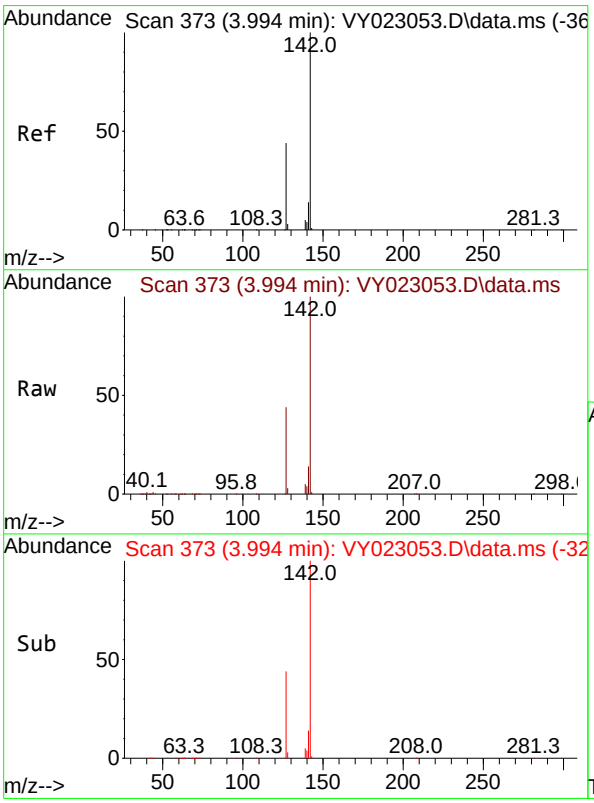
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.109 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 249063

Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.3	54.5
151	76.9	61.5	92.3

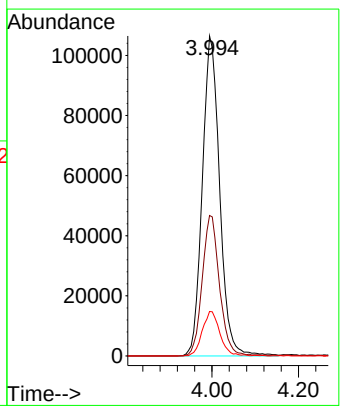


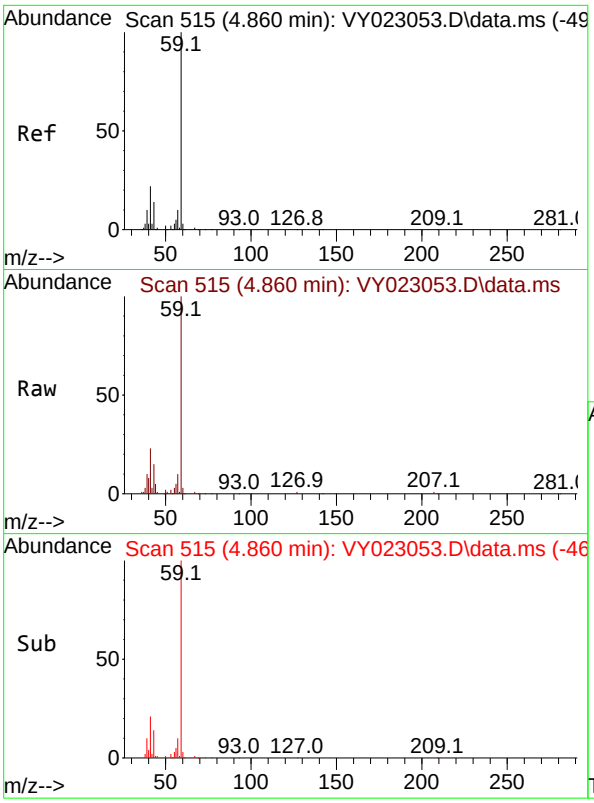


#10
Methyl Iodide
Concen: 51.899 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:142 Resp: 296087

Ion	Ratio	Lower	Upper
142	100		
127	43.6	34.9	52.3
141	14.1	11.3	16.9



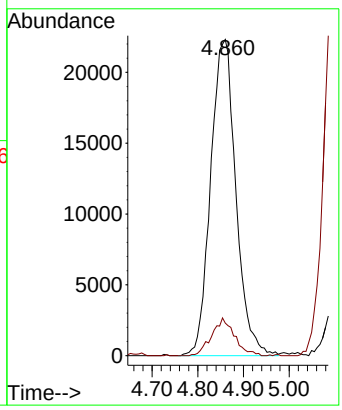


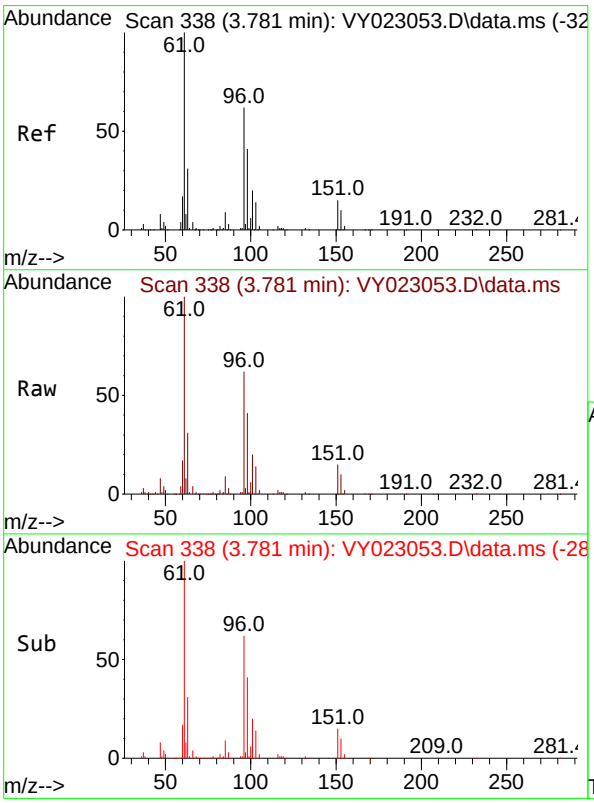
#11
Tert butyl alcohol
Concen: 243.383 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 85712

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

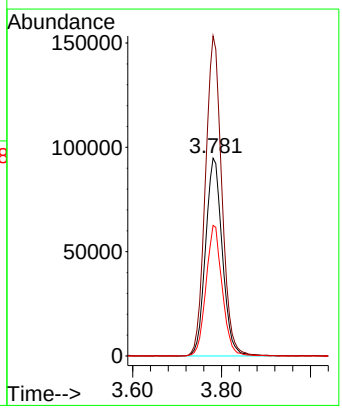


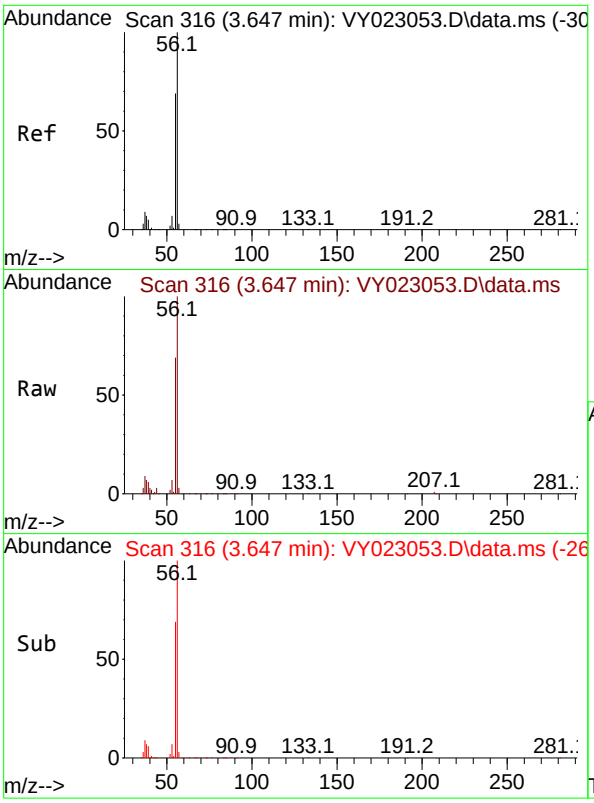


#12
1,1-Dichloroethene
Concen: 48.009 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 249492

Ion	Ratio	Lower	Upper
96	100		
61	161.8	129.4	194.2
98	66.0	52.8	79.2



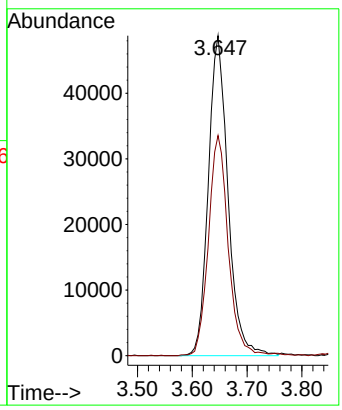


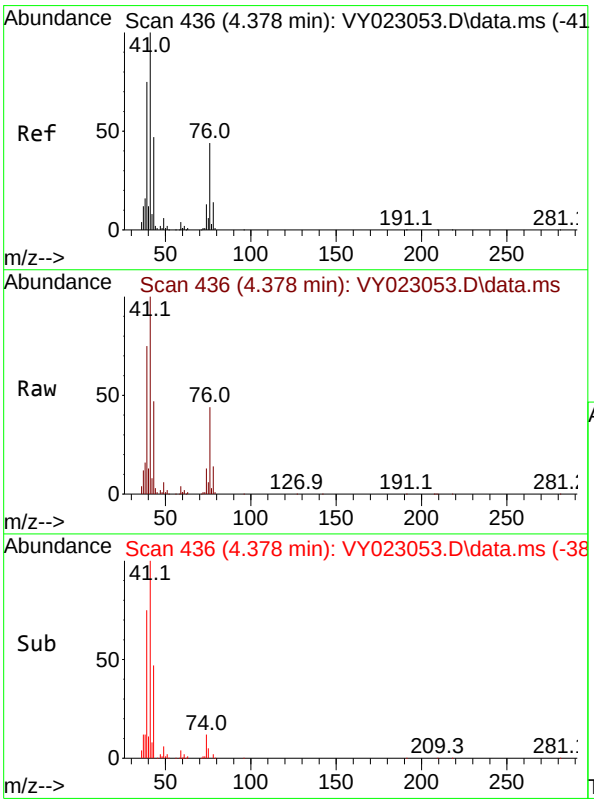
#13
Acrolein
Concen: 234.966 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 121185

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.2	82.8

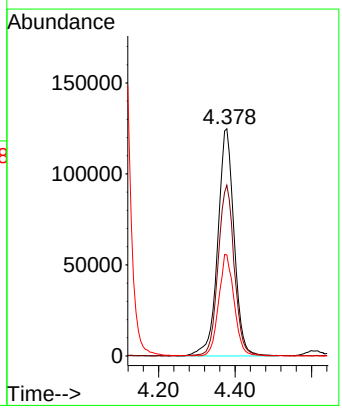


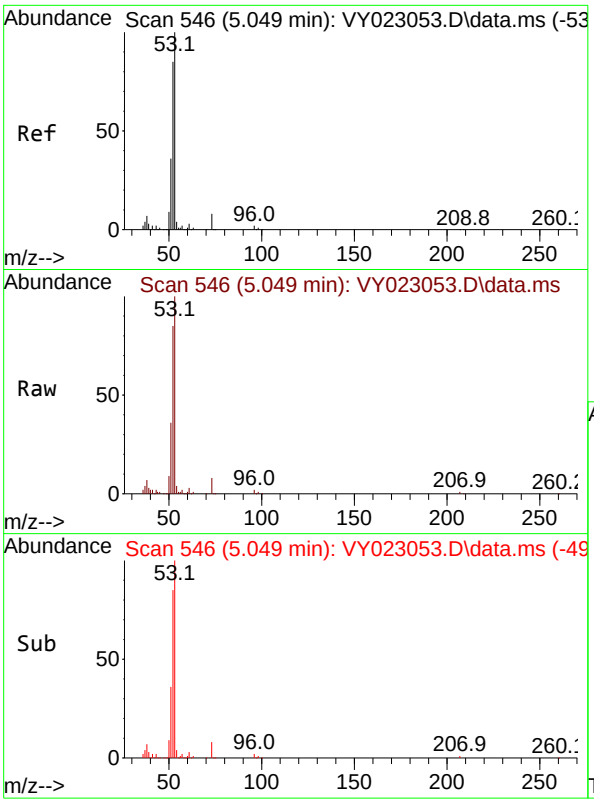


#14
Allyl chloride
Concen: 48.350 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 369720

Ion	Ratio	Lower	Upper
41	100		
39	74.7	59.8	89.6
76	42.1	33.7	50.5



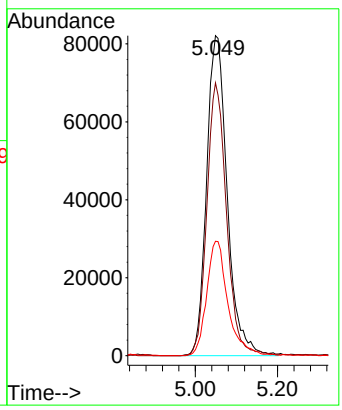


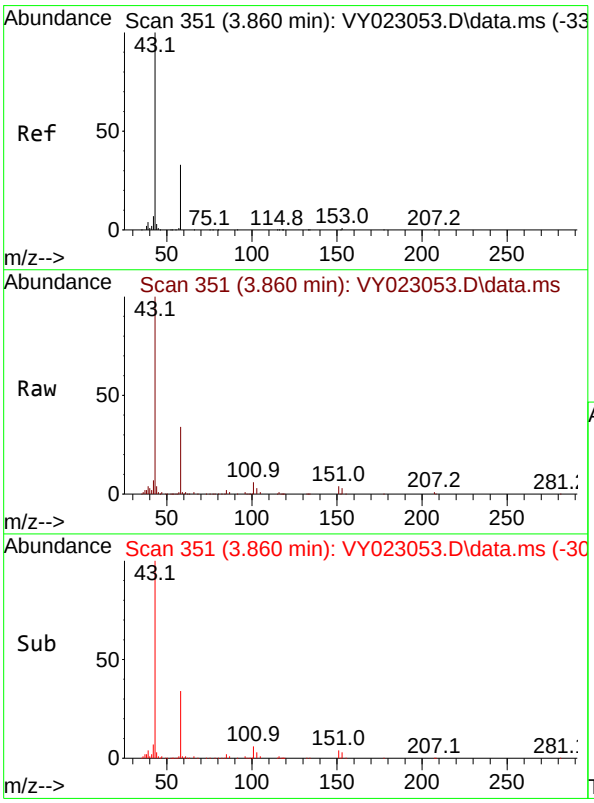
#15
Acrylonitrile
Concen: 247.839 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 285675

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.3	97.9
51	36.9	29.5	44.3

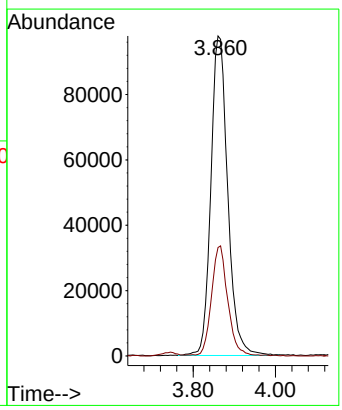


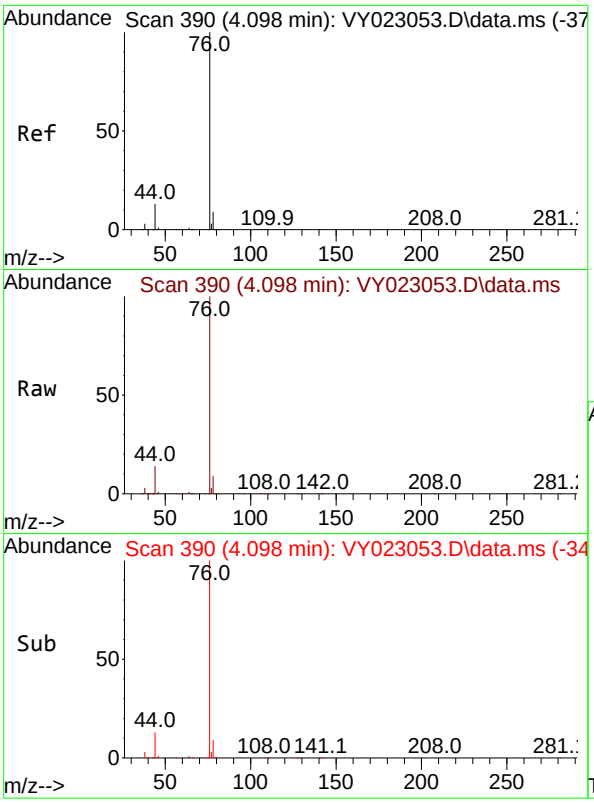


#16
Acetone
Concen: 250.122 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 278510

Ion	Ratio	Lower	Upper
43	100		
58	33.9	27.1	40.7



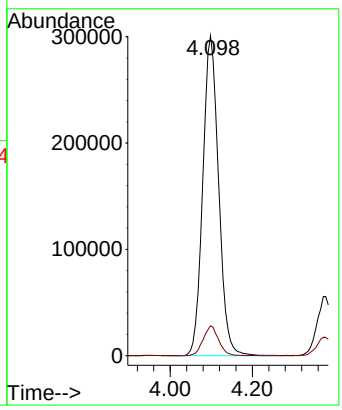


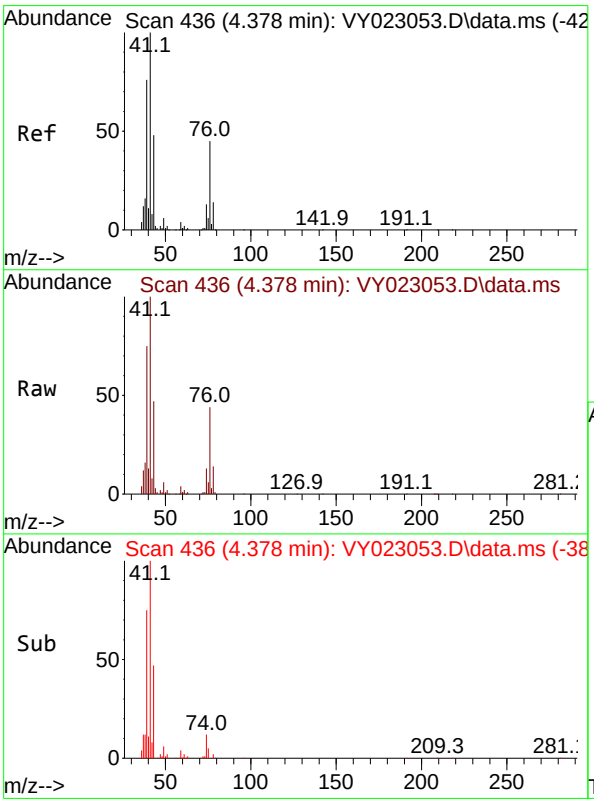
#17
Carbon Disulfide
Concen: 47.456 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 804119

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2

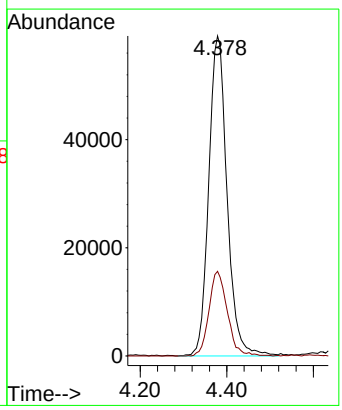


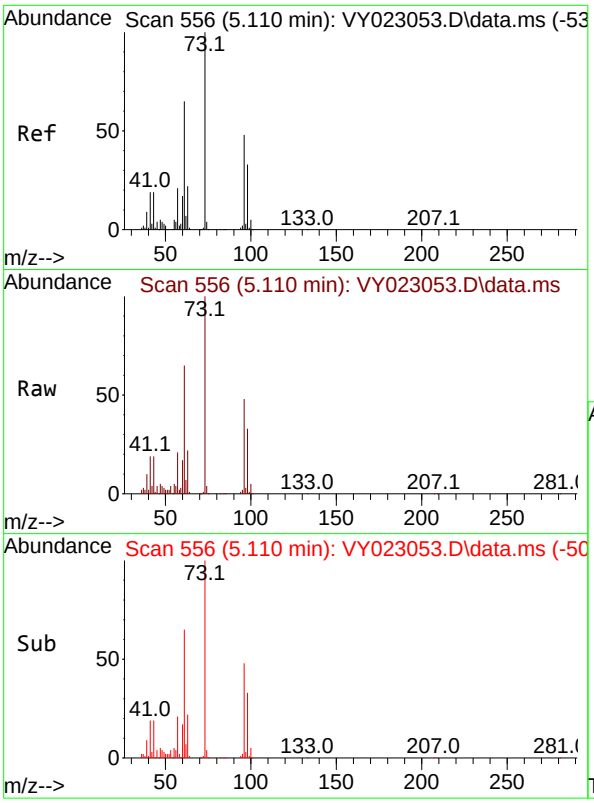


#18
Methyl Acetate
Concen: 52.403 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 173642

Ion	Ratio	Lower	Upper
43	100		
74	26.5	21.2	31.8



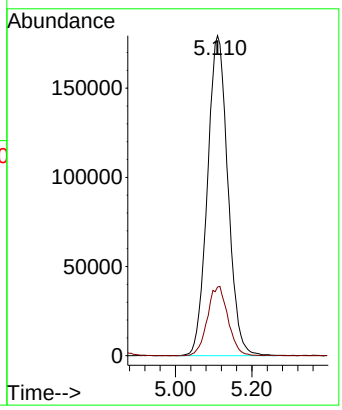


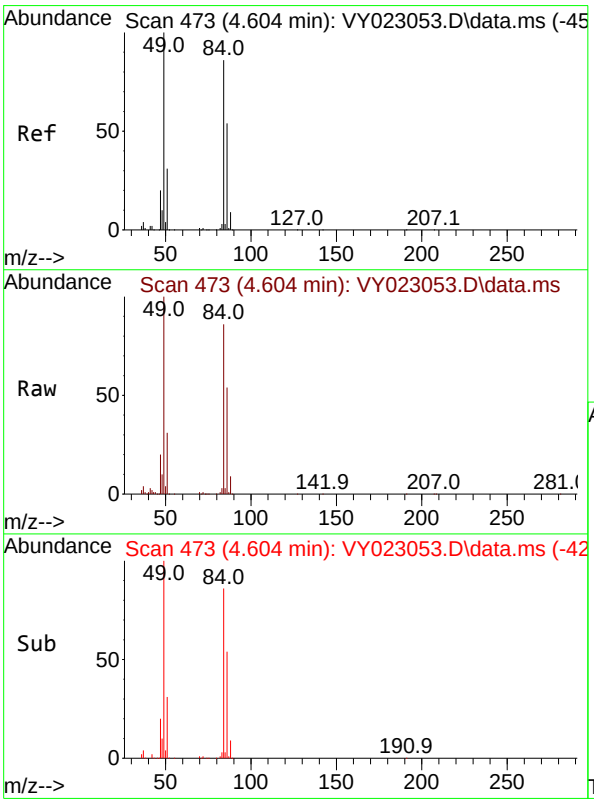
#19
Methyl tert-butyl Ether
Concen: 49.495 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 666514

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.1	25.7

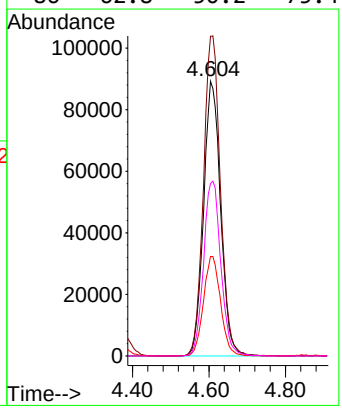


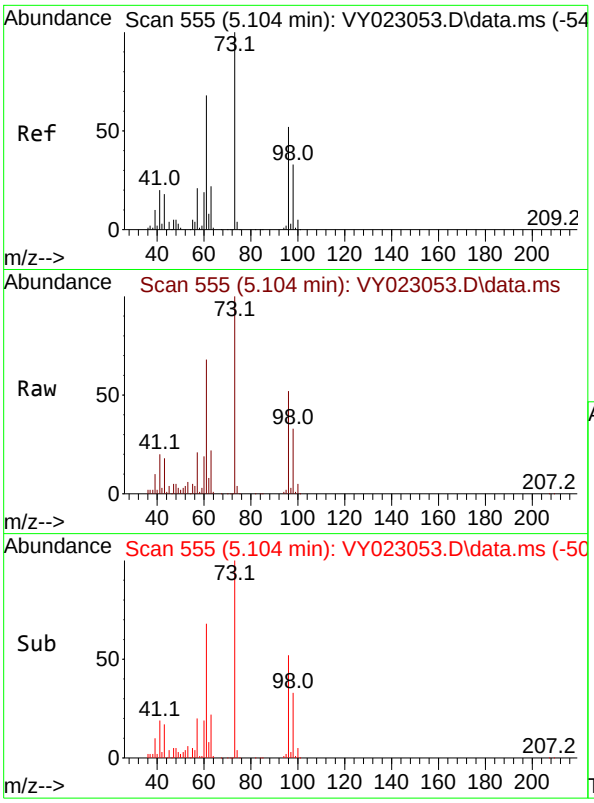


#20
Methylene Chloride
Concen: 47.415 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 84 Resp: 275004

Ion	Ratio	Lower	Upper
84	100		
49	116.3	93.0	139.6
51	36.2	29.0	43.4
86	62.8	50.2	75.4



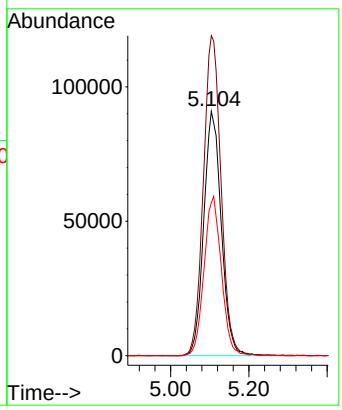


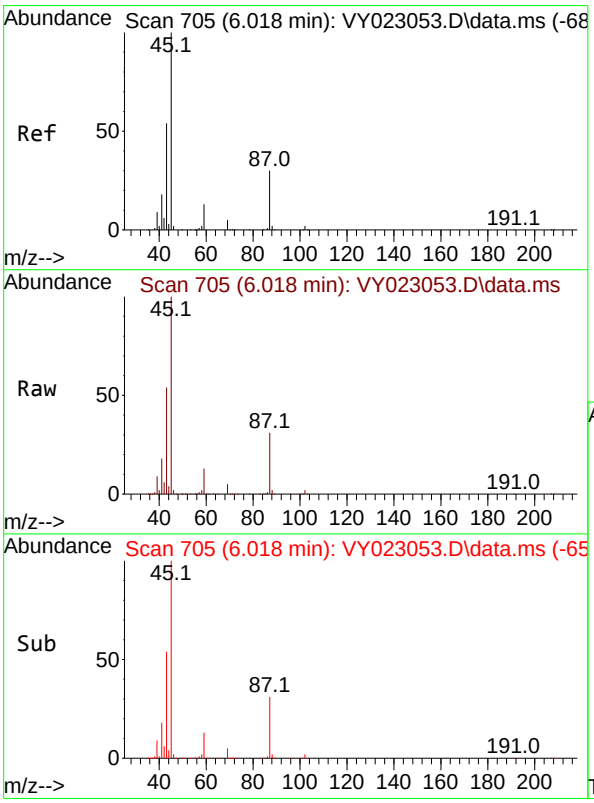
#21
trans-1,2-Dichloroethene
Concen: 48.334 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 282272

Ion	Ratio	Lower	Upper
96	100		
61	131.0	104.8	157.2
98	62.6	50.1	75.1

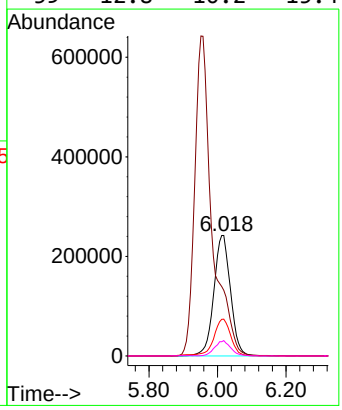


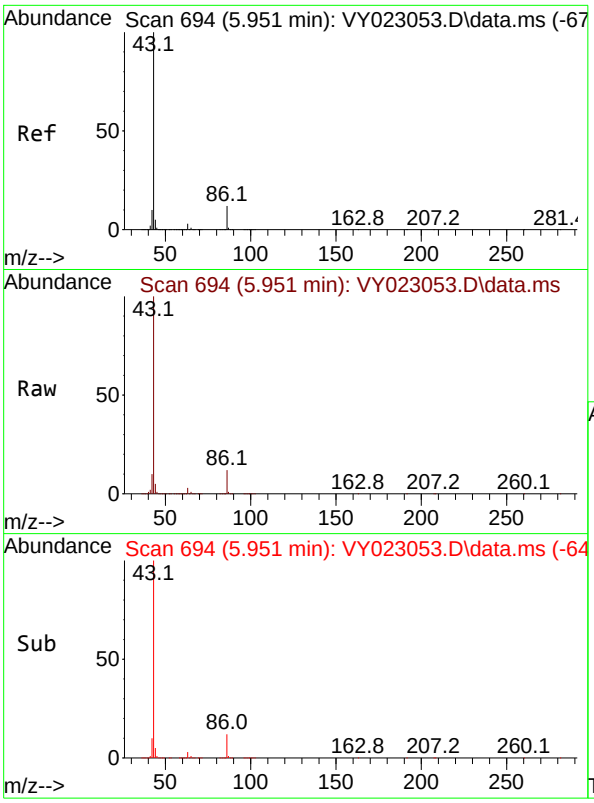


#22
Diisopropyl ether
Concen: 49.070 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 45 Resp: 815359

Ion	Ratio	Lower	Upper
45	100		
43	54.2	43.4	65.0
87	30.5	24.4	36.6
59	12.8	10.2	15.4



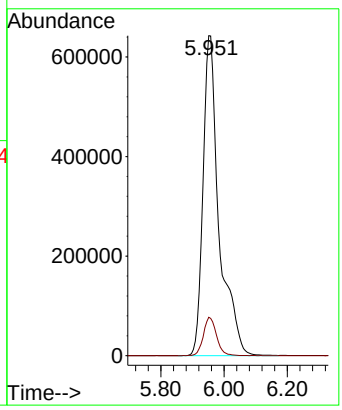


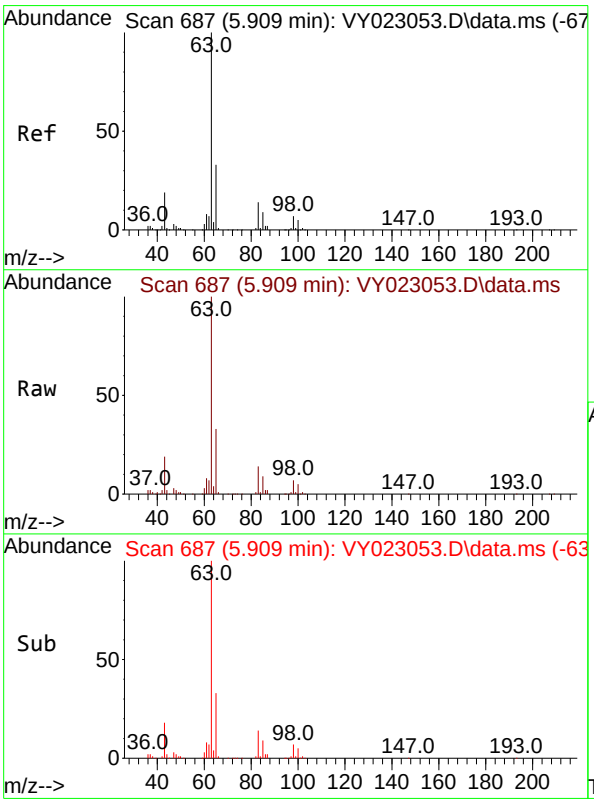
#23
Vinyl Acetate
Concen: 246.849 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2268046

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.6	14.4

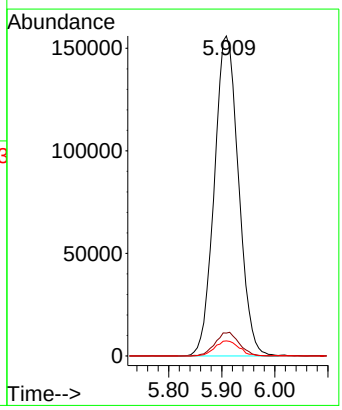


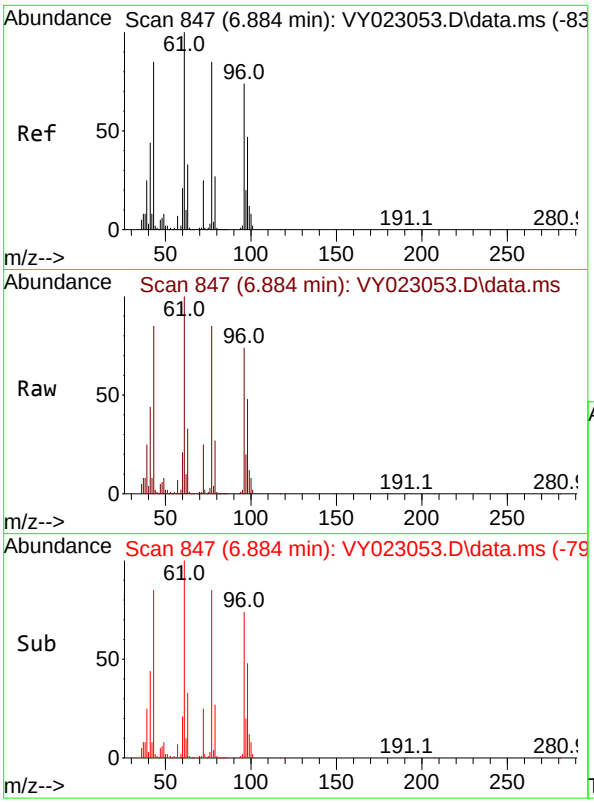


#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 495073

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.7	2.4	7.1



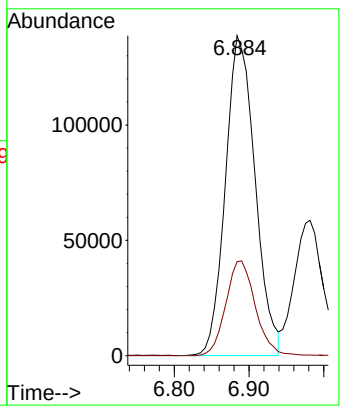


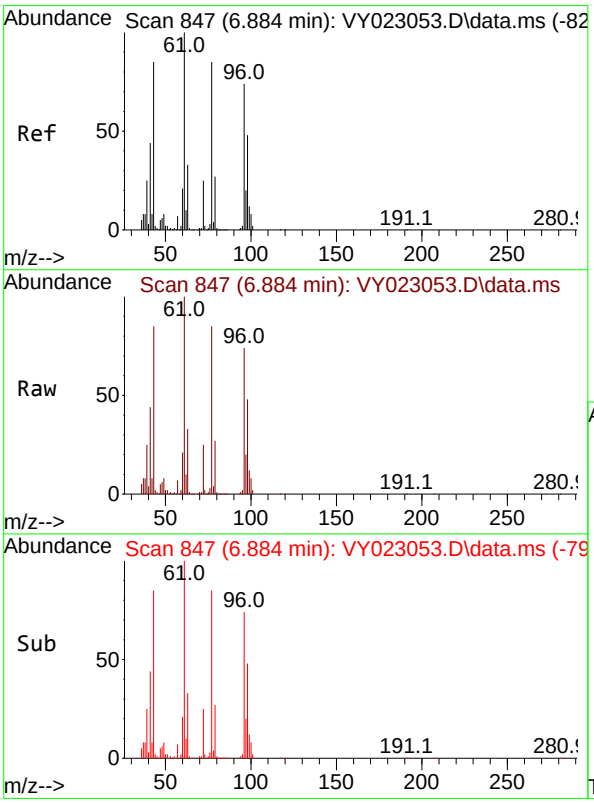
#25
2-Butanone
Concen: 252.715 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 382711

Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.5	35.3

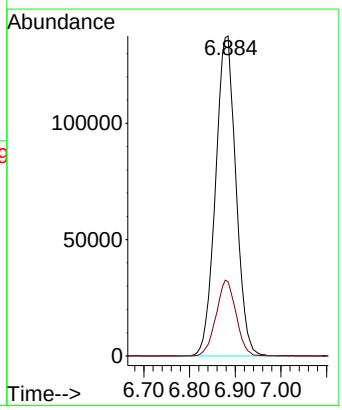


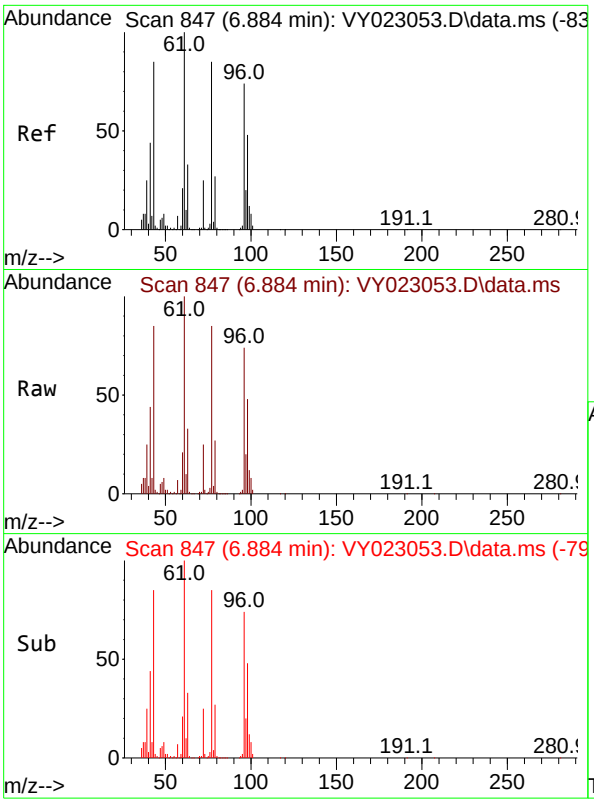


#26
2,2-Dichloropropane
Concen: 48.571 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 77 Resp: 425773

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8



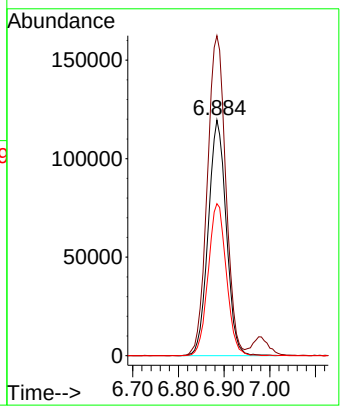


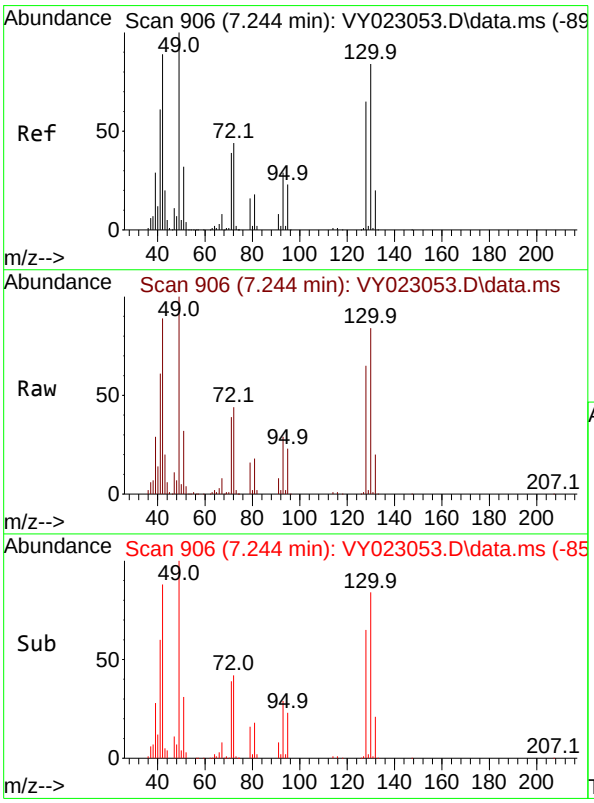
#27
cis-1,2-Dichloroethene
Concen: 48.474 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 327272

Ion	Ratio	Lower	Upper
96	100		
61	139.3	0.0	278.6
98	65.2	0.0	130.4

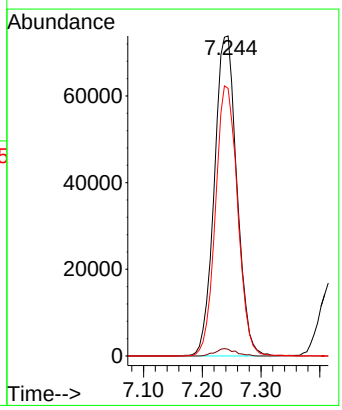


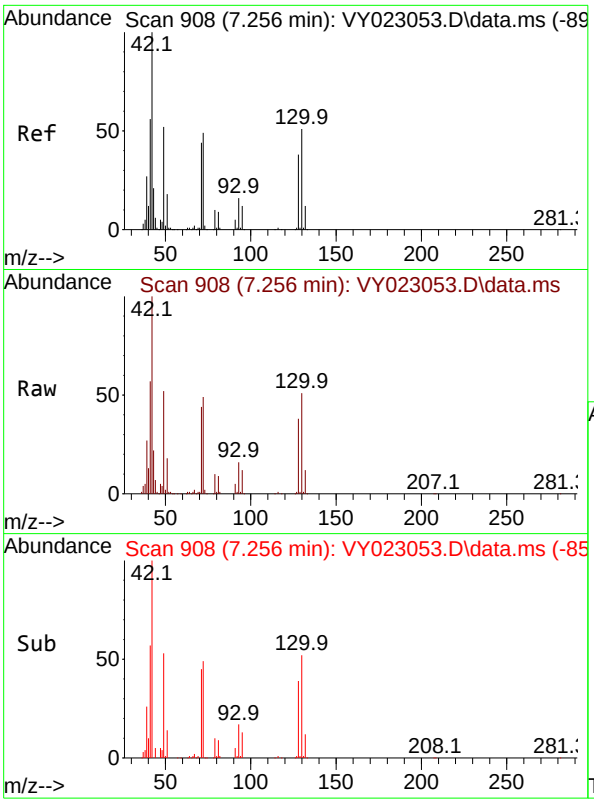


#28
Bromochloromethane
Concen: 48.795 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 49 Resp: 196667

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.0	66.4	99.6



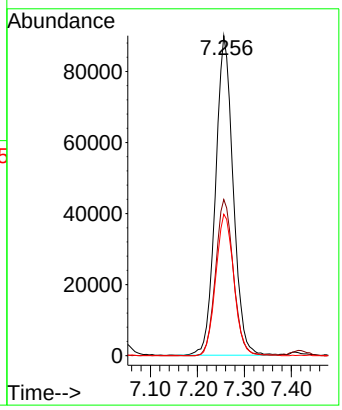


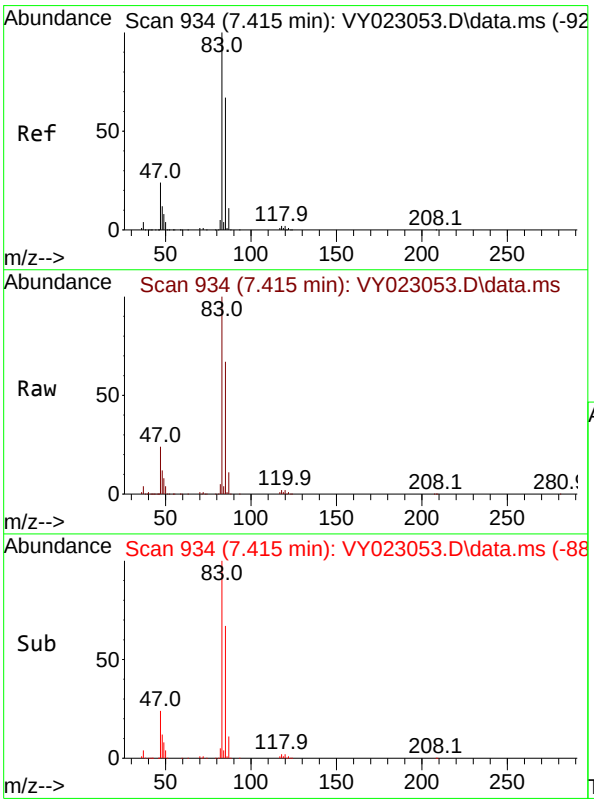
#29
Tetrahydrofuran
Concen: 250.523 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 235169

Ion	Ratio	Lower	Upper
42	100		
72	49.3	39.4	59.2
71	45.6	36.5	54.7

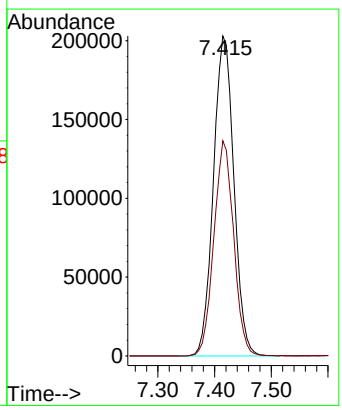


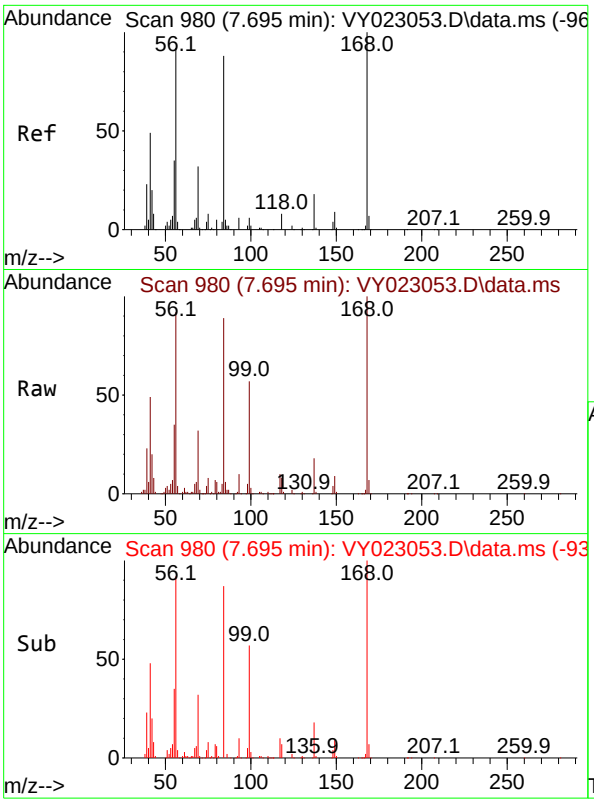


#30
Chloroform
Concen: 48.547 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 508641

Ion	Ratio	Lower	Upper
83	100		
85	67.3	53.8	80.8



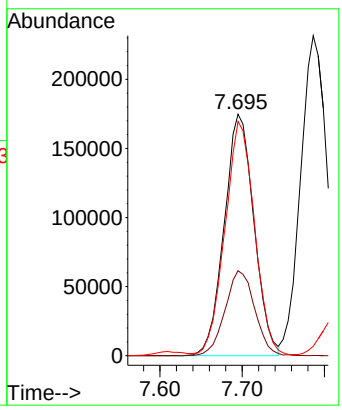


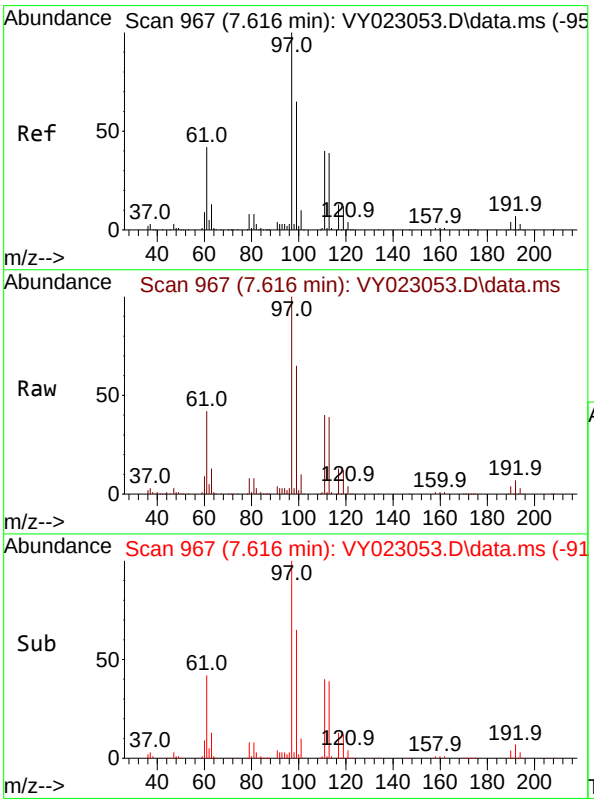
#31
Cyclohexane
Concen: 45.989 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 440266

Ion	Ratio	Lower	Upper
56	100		
69	35.2	28.2	42.2
84	95.7	76.6	114.8

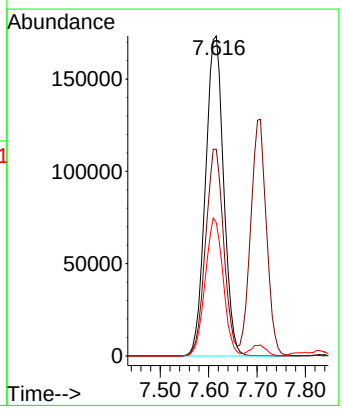


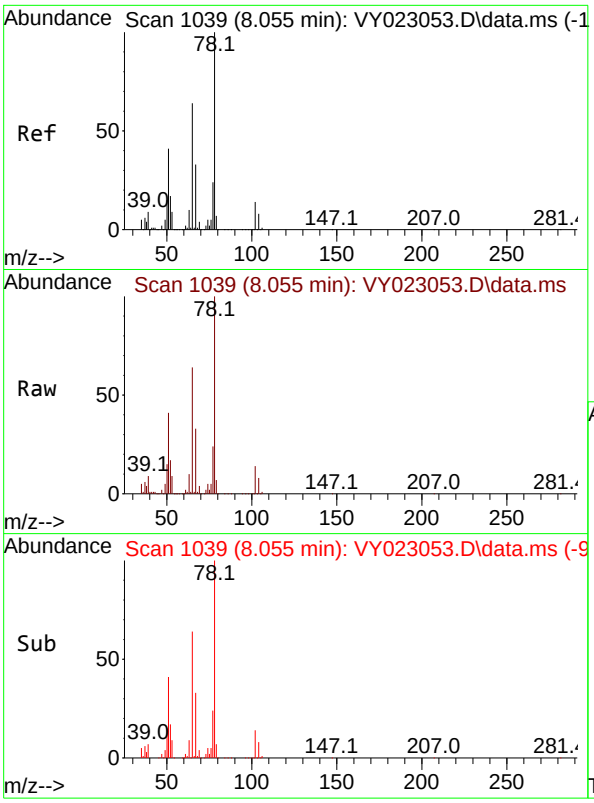


#32
1,1,1-Trichloroethane
Concen: 48.569 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 97 Resp: 451521

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	42.7	34.2	51.2



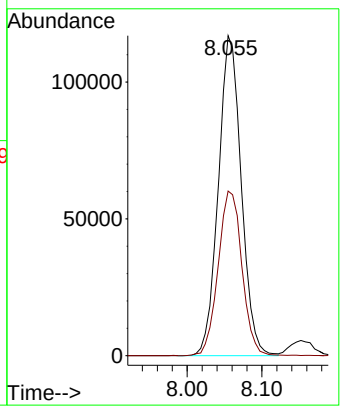


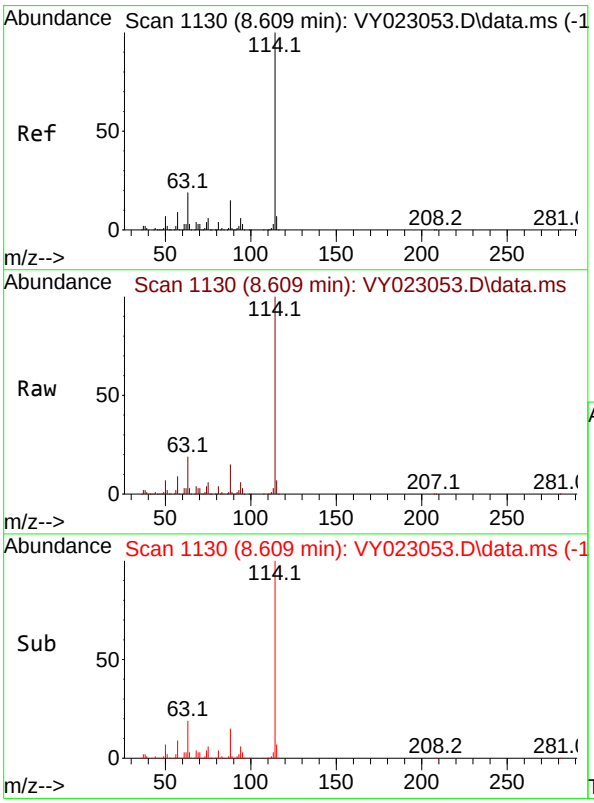
#33
1,2-Dichloroethane-d4
Concen: 48.455 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 249044

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

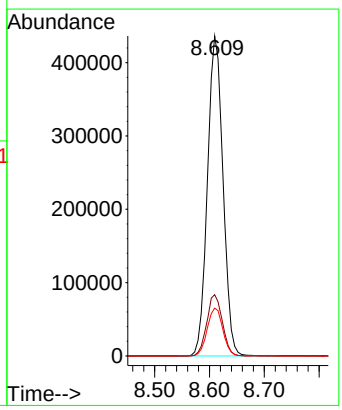


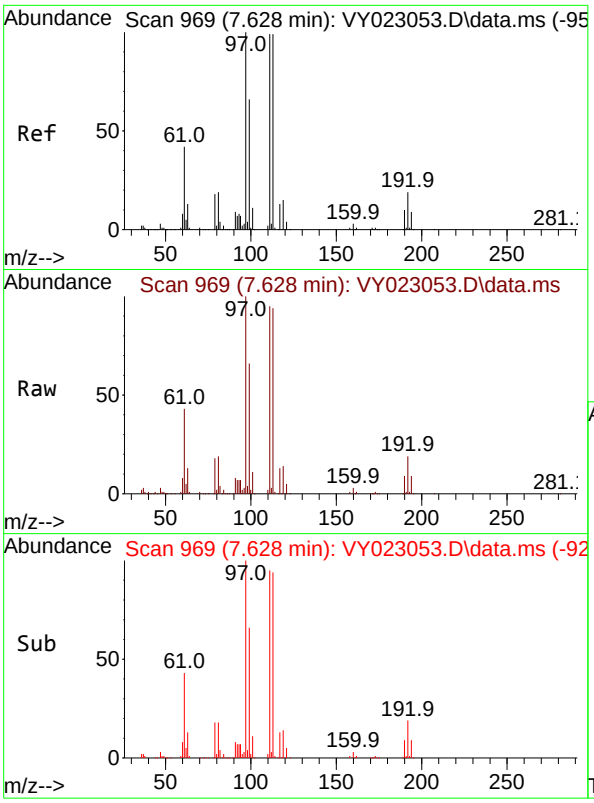


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:114 Resp: 856556

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	15.0	0.0	30.0



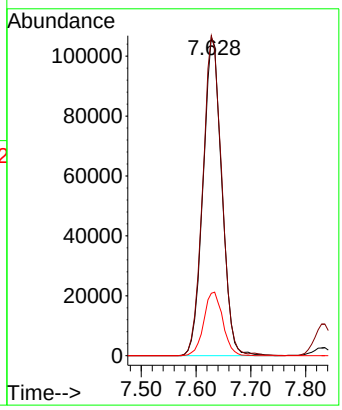


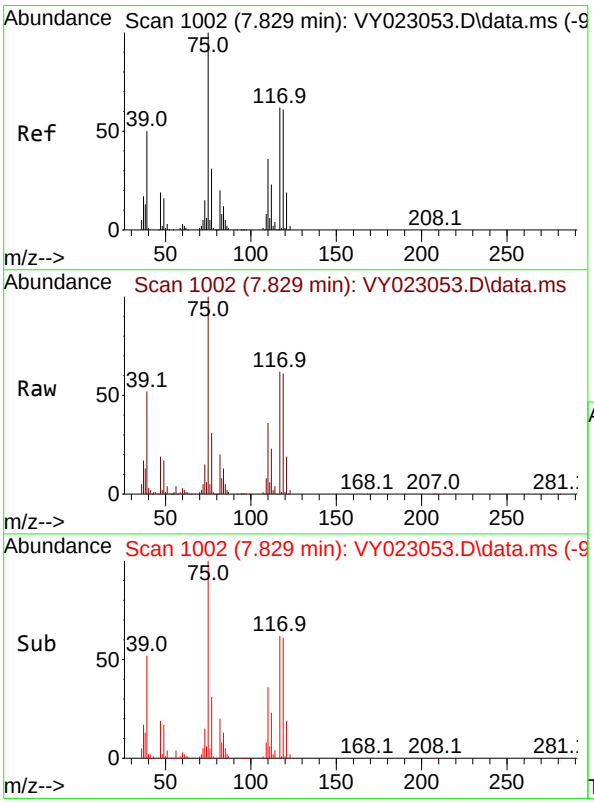
#35
Dibromofluoromethane
Concen: 49.010 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 251193

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	20.3	16.2	24.4

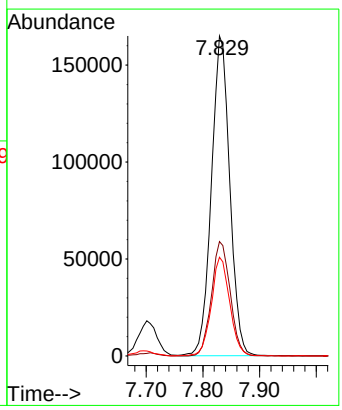


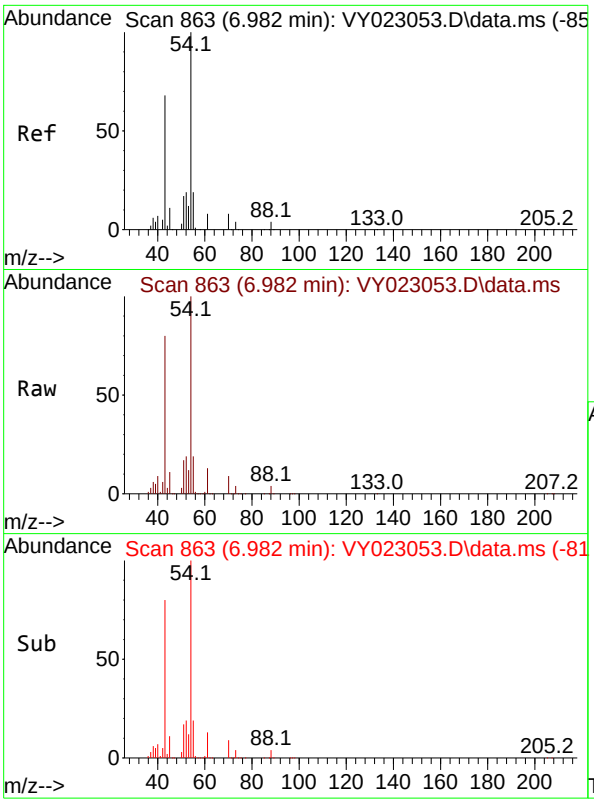


#36
1,1-Dichloropropene
Concen: 48.734 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 371204

Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.1	54.4
77	30.8	24.6	37.0



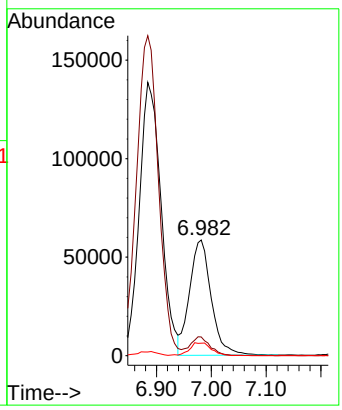


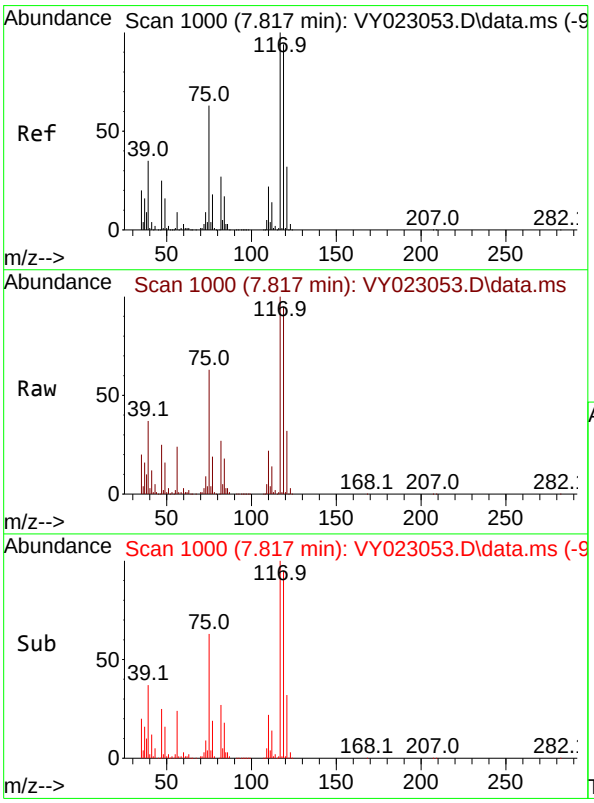
#37
Ethyl Acetate
Concen: 50.311 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 160980

Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.9	17.9
70	11.0	8.8	13.2

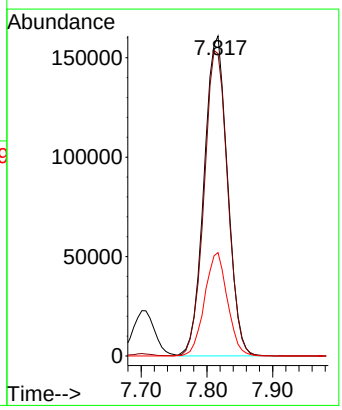


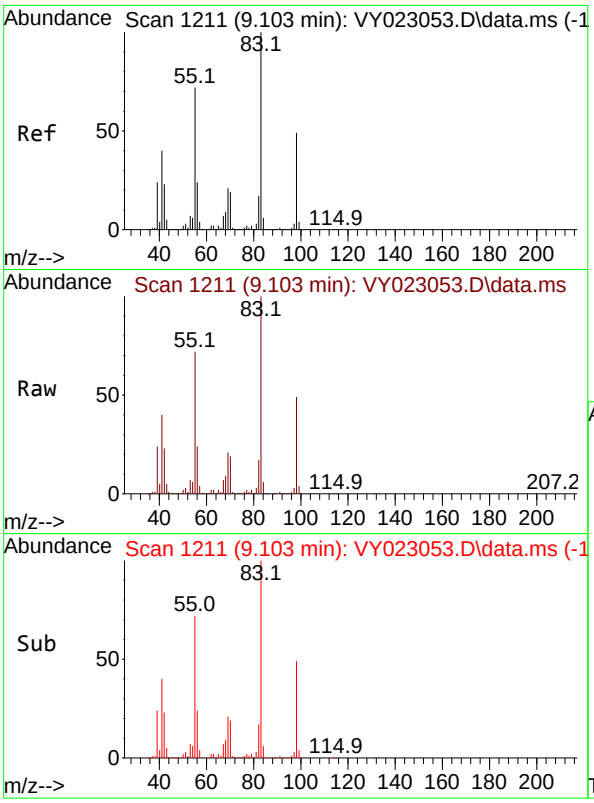


#38
Carbon Tetrachloride
Concen: 48.285 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 399463

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	32.3	25.8	38.8



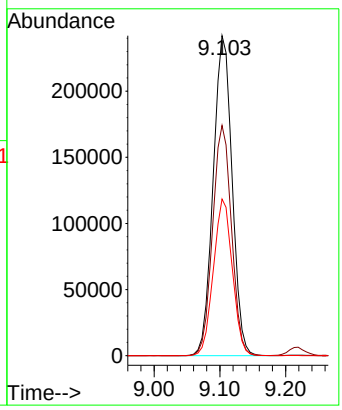


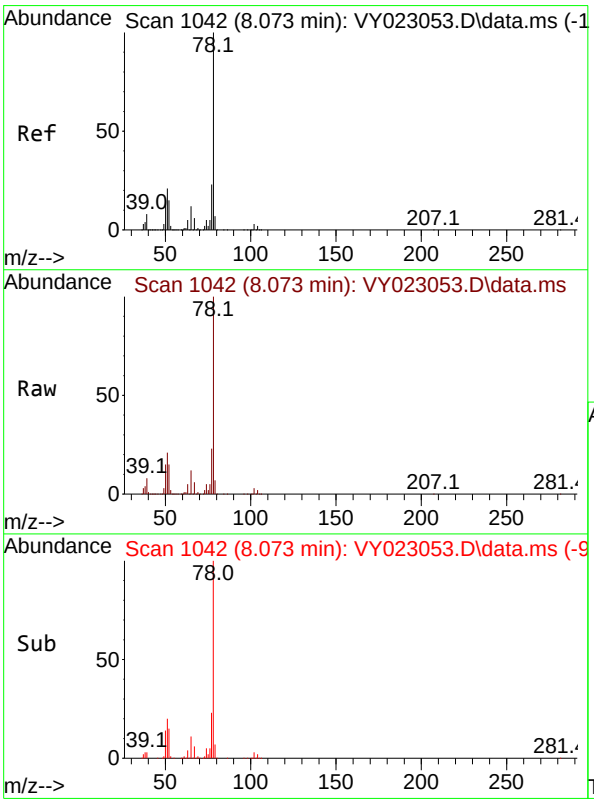
#39
Methylcyclohexane
Concen: 48.321 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 484691

Ion	Ratio	Lower	Upper
83	100		
55	72.0	57.6	86.4
98	49.0	39.2	58.8

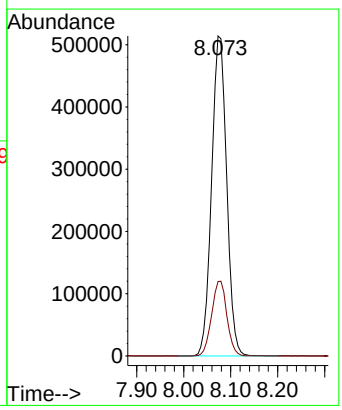


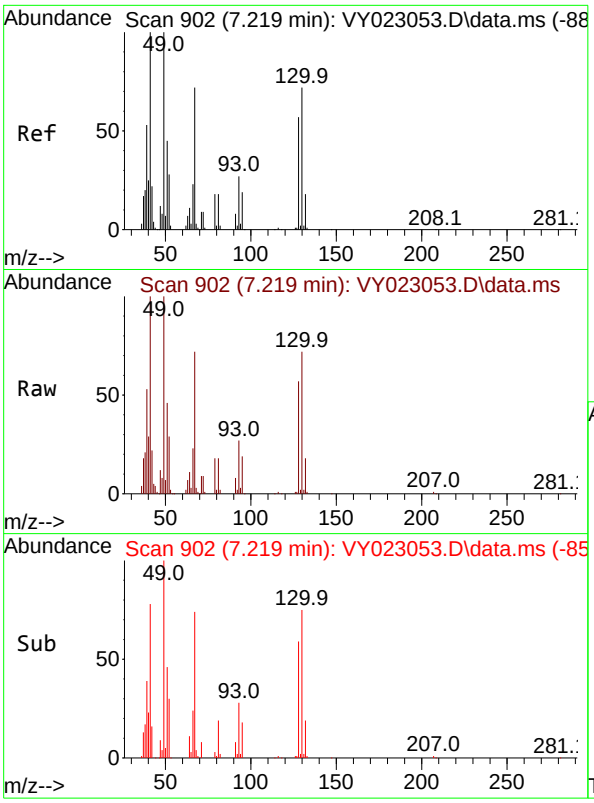


#40
Benzene
Concen: 48.683 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 78 Resp: 1142910

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0



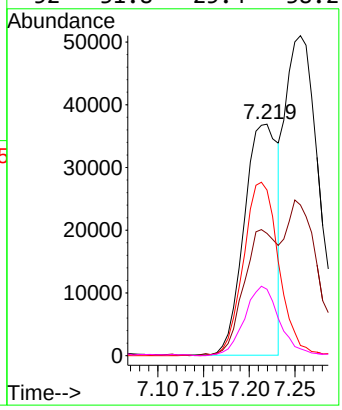


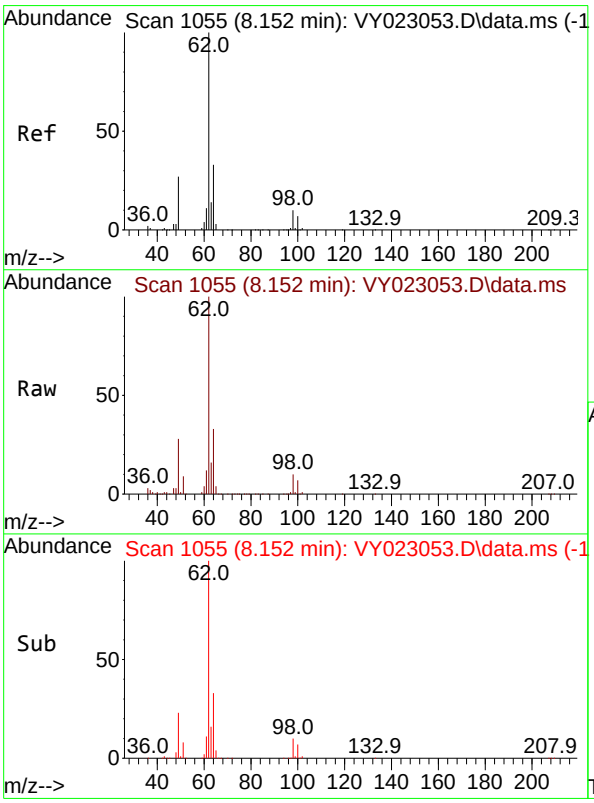
#41
Methacrylonitrile
Concen: 50.916 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 94123

Ion	Ratio	Lower	Upper
41	100		
39	54.3	43.4	65.2
67	79.5	63.6	95.4
52	31.8	25.4	38.2

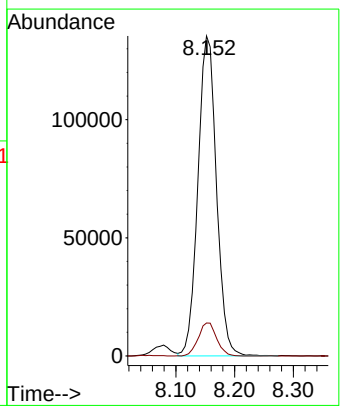


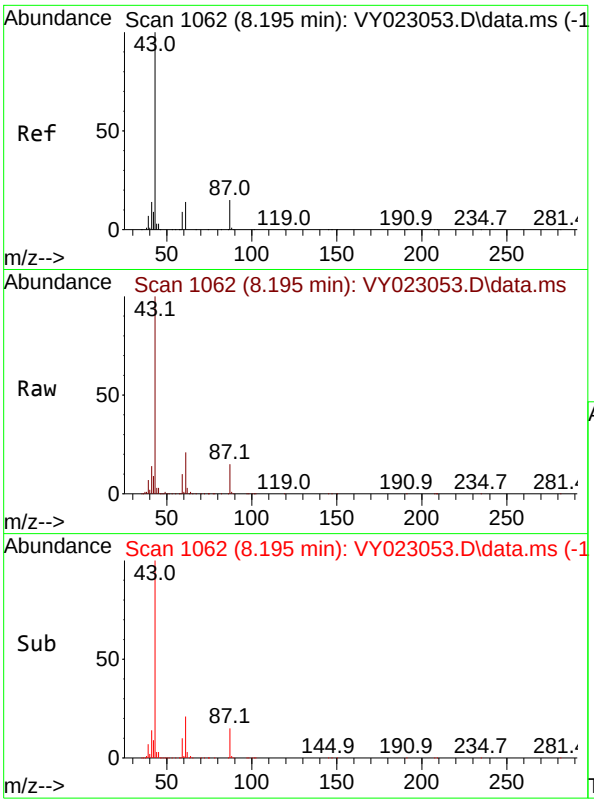


#42
1,2-Dichloroethane
Concen: 48.627 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 296907

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6



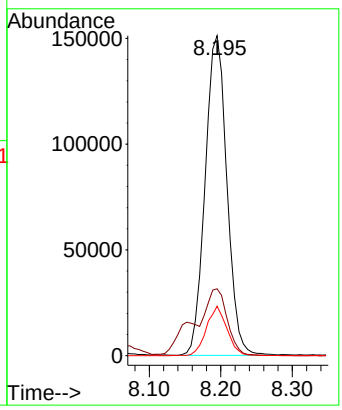


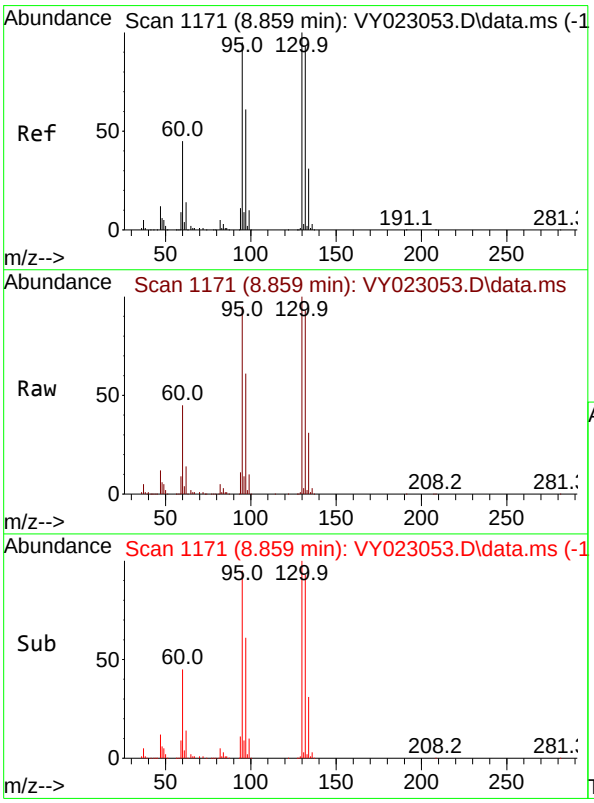
#43
Isopropyl Acetate
Concen: 49.419 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 319600

Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.4	24.6
87	14.7	11.8	17.6

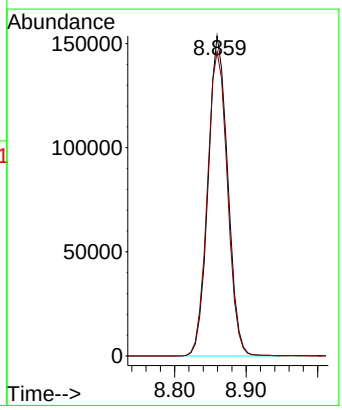


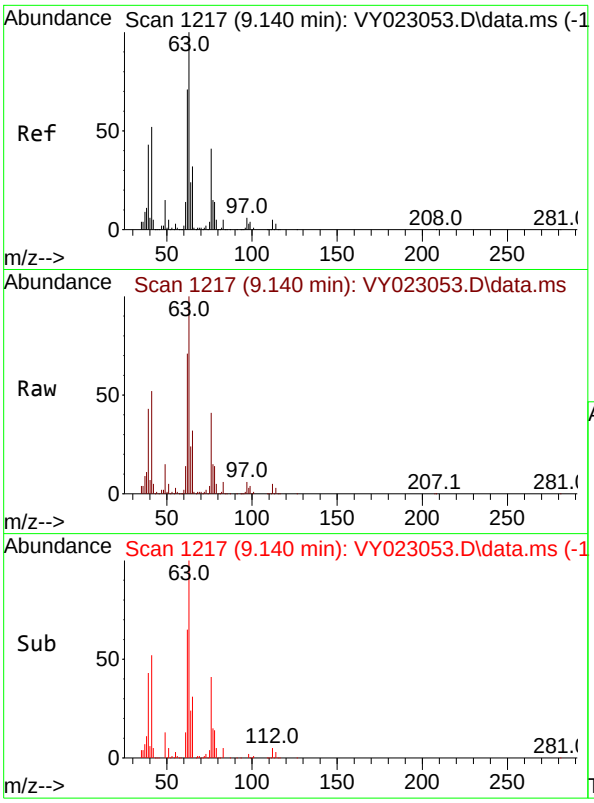


#44
Trichloroethene
Concen: 48.199 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:130 Resp: 292421

Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	190.2



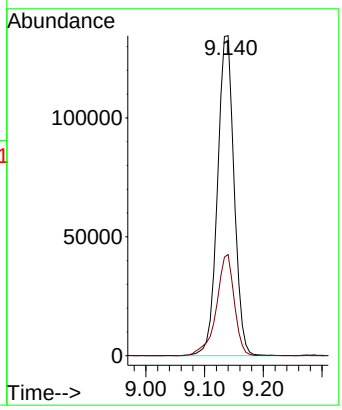


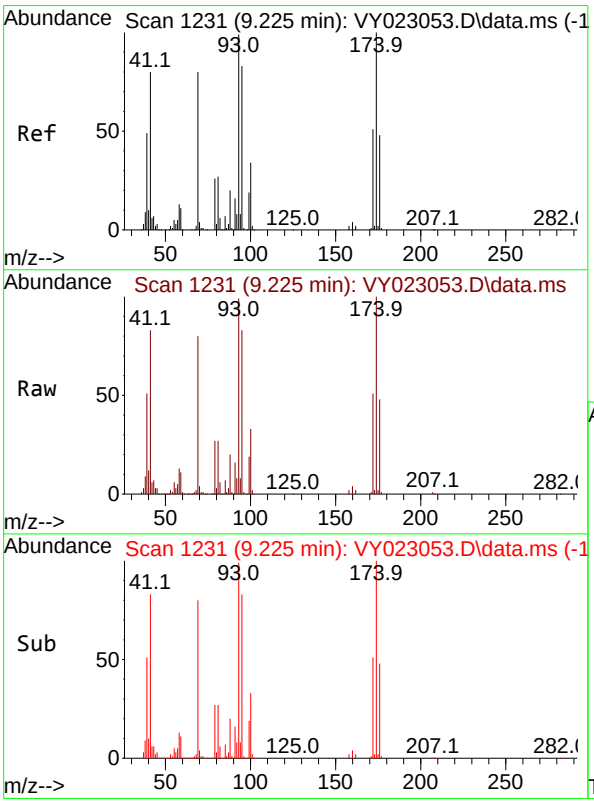
#45
1,2-Dichloropropane
Concen: 48.938 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 264354

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9

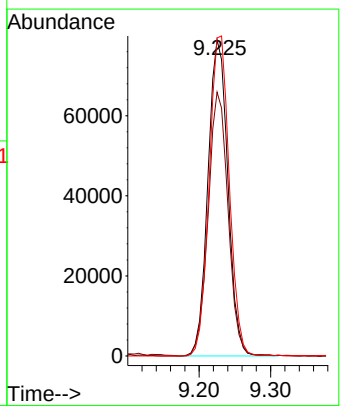


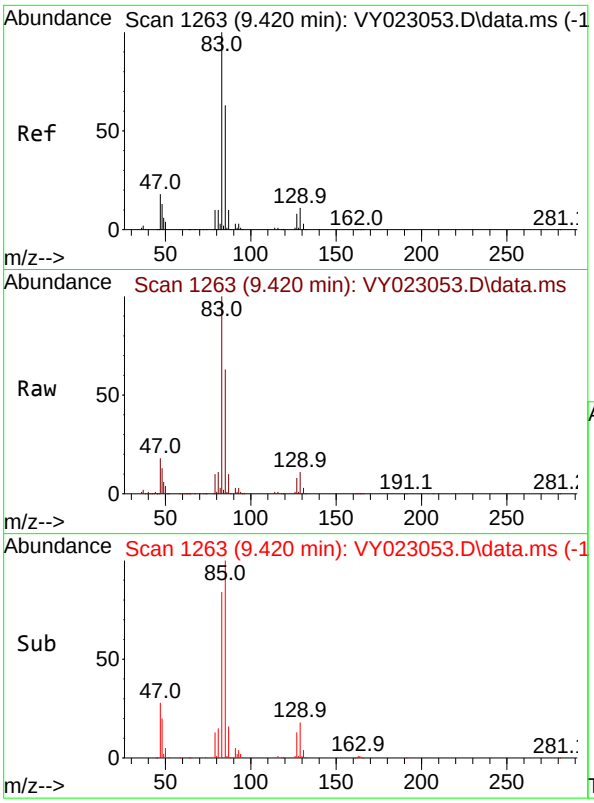


#46
Dibromomethane
Concen: 49.291 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 93 Resp: 152822

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.5	99.7
174	102.3	81.8	122.8



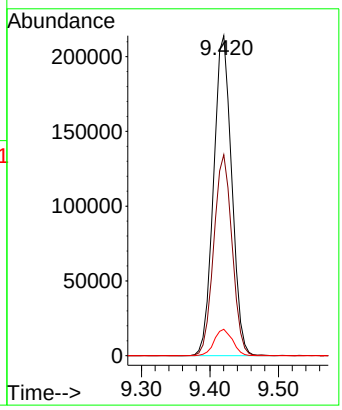


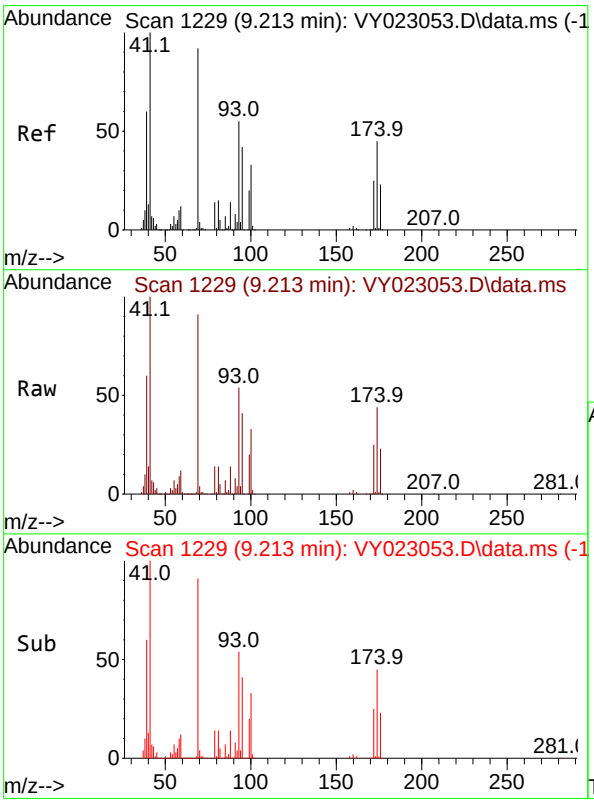
#47
Bromodichloromethane
Concen: 49.327 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 393523

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	8.3	6.6	10.0

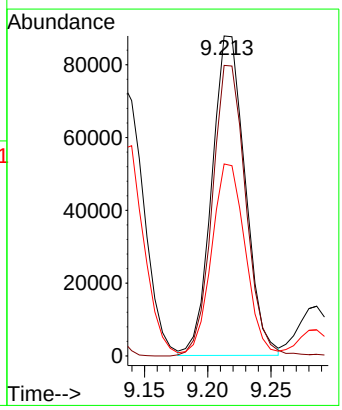


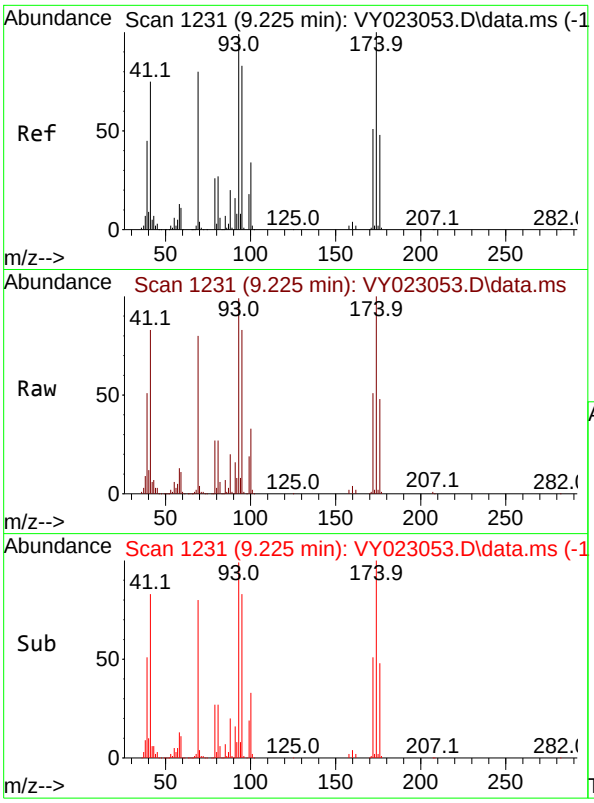


#48
Methyl methacrylate
Concen: 51.958 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 160792

Ion	Ratio	Lower	Upper
41	100		
69	91.5	73.2	109.8
39	58.7	47.0	70.4



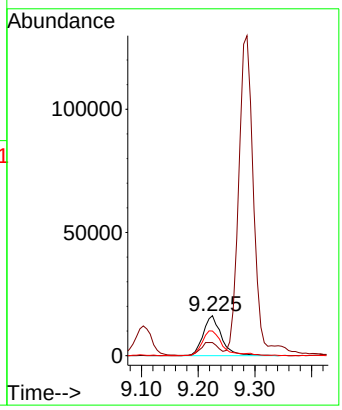


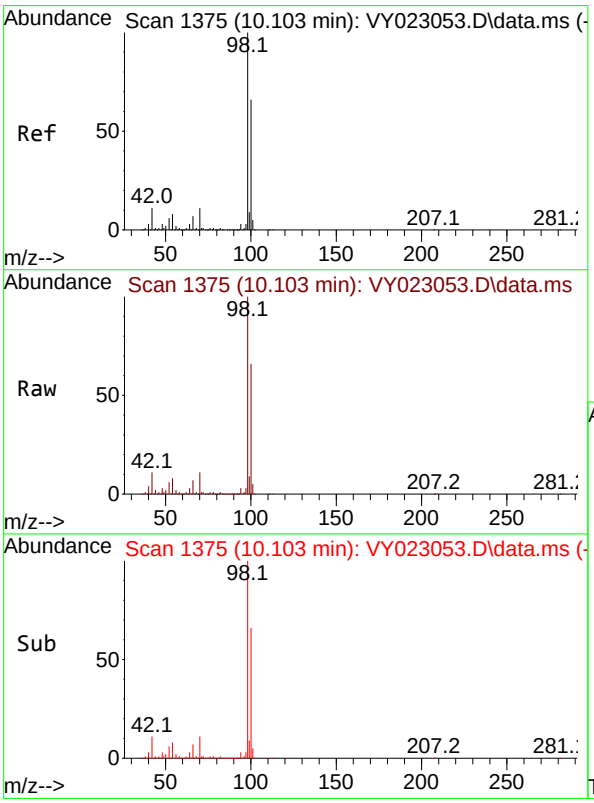
#49
1,4-Dioxane
Concen: 997.124 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 36249

Ion	Ratio	Lower	Upper
88	100		
43	30.4	24.3	36.5
58	69.2	55.4	83.0

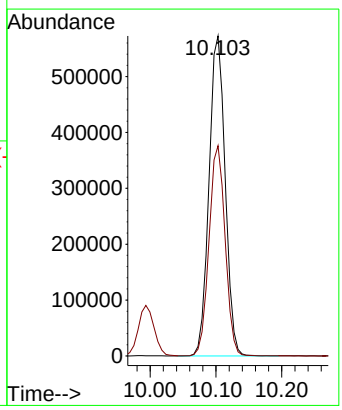


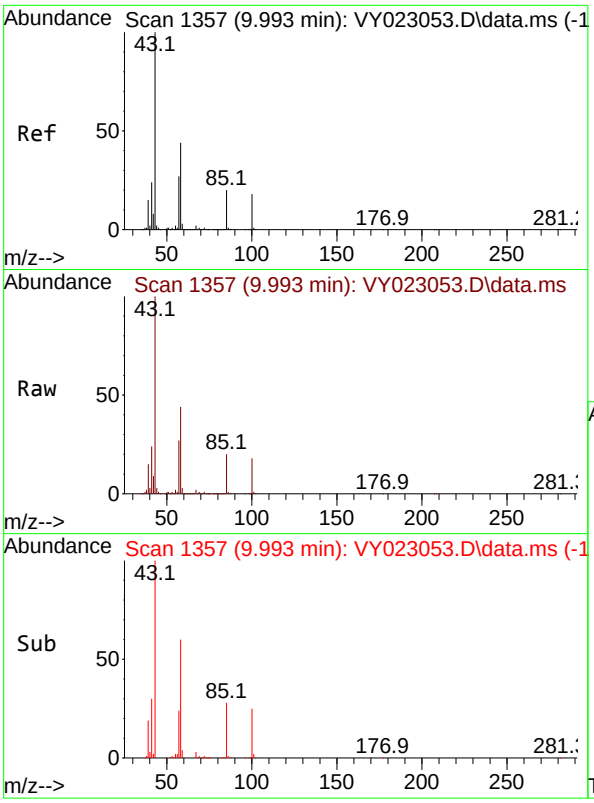


#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 98 Resp: 979082

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5



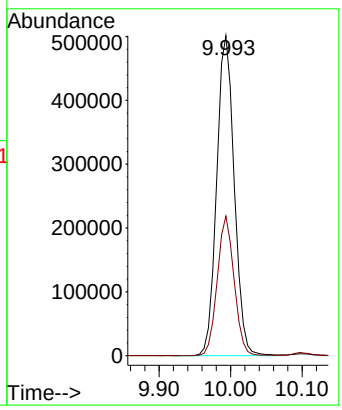


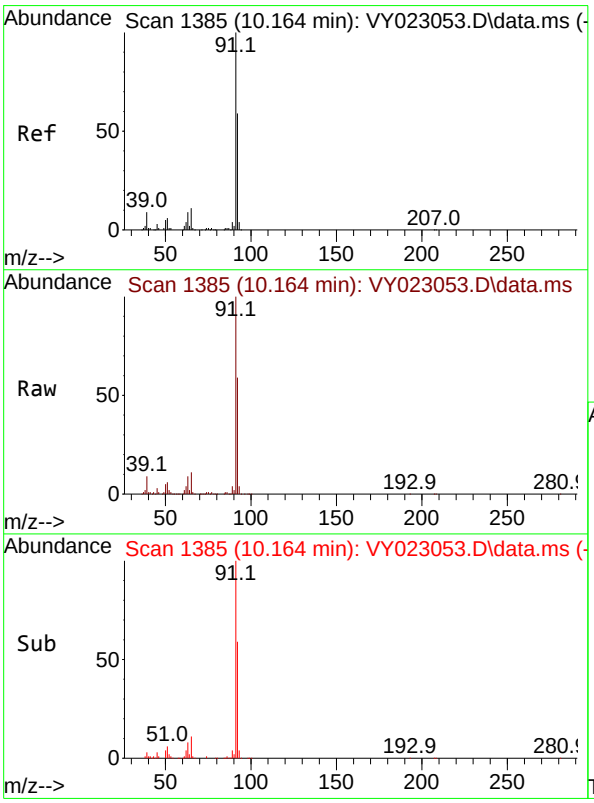
#51
4-Methyl-2-Pentanone
Concen: 255.710 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 853025

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3

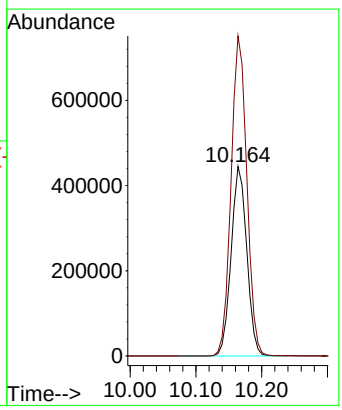


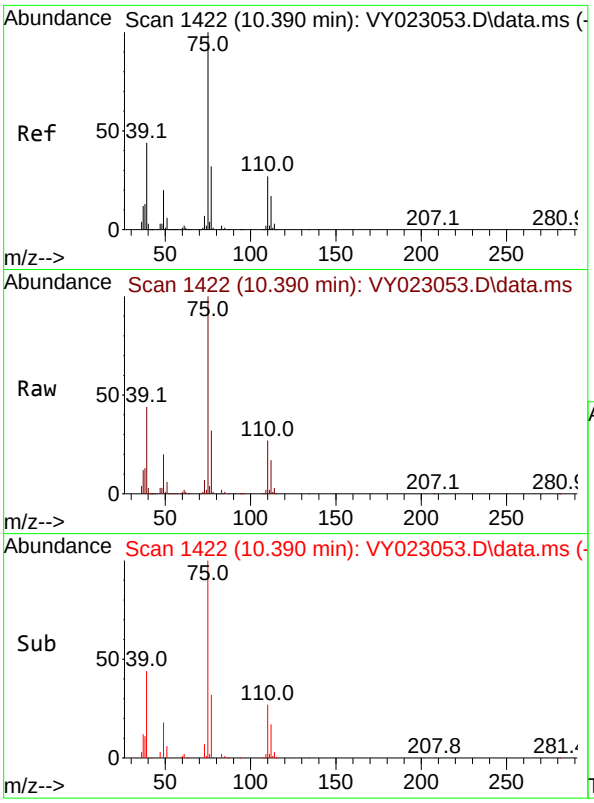


#52
Toluene
Concen: 49.315 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 92 Resp: 735326

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6



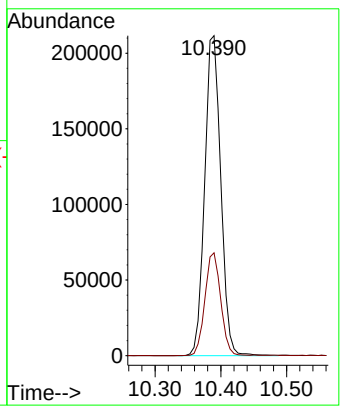


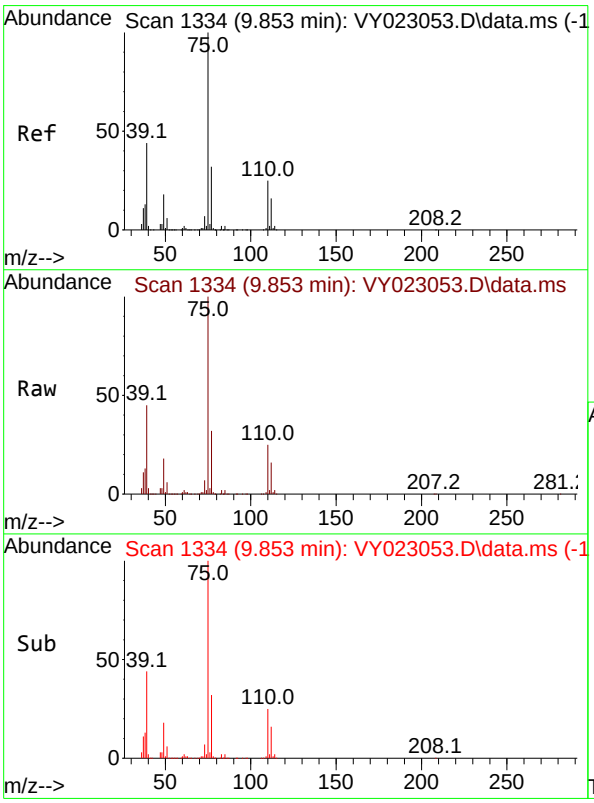
#53
t-1,3-Dichloropropene
Concen: 49.790 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 359698

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

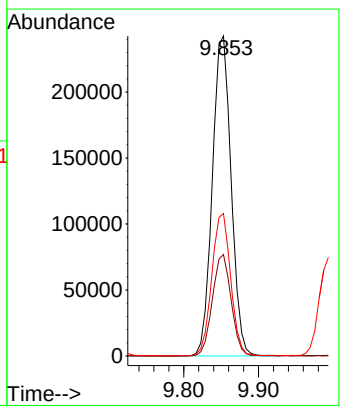


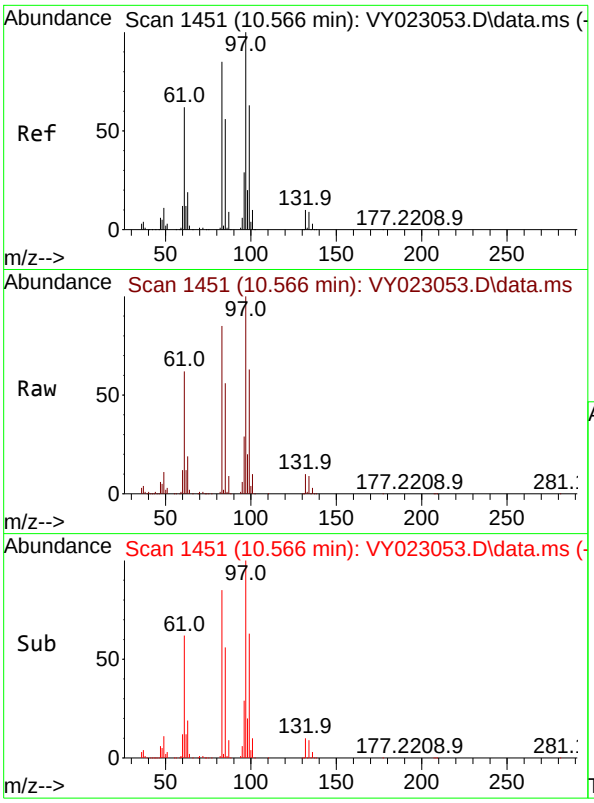


#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 424834

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	44.5	35.6	53.4



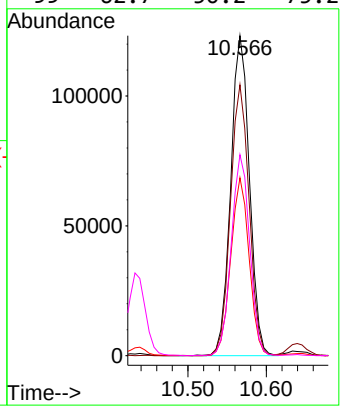


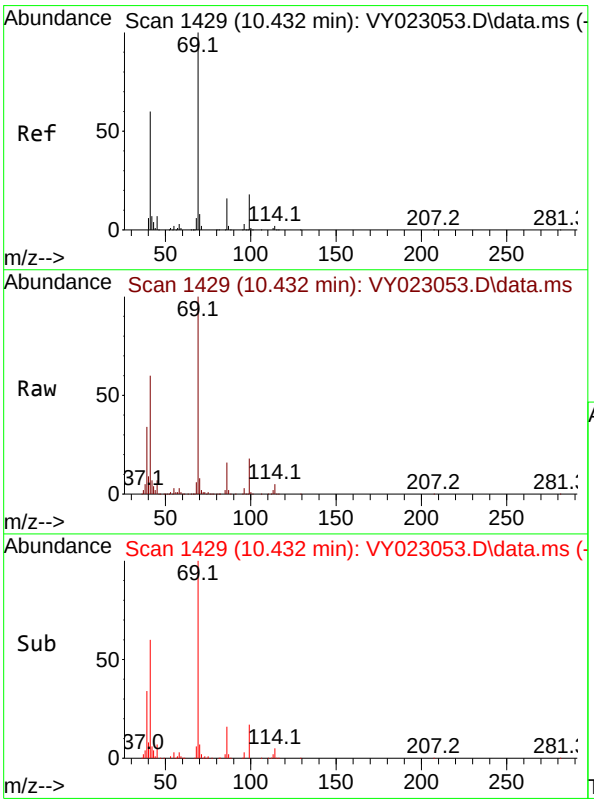
#55
1,1,2-Trichloroethane
Concen: 49.261 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 204368

Ion	Ratio	Lower	Upper
97	100		
83	84.6	67.7	101.5
85	55.6	44.5	66.7
99	62.7	50.2	75.2

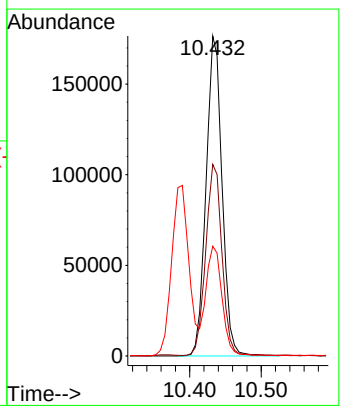


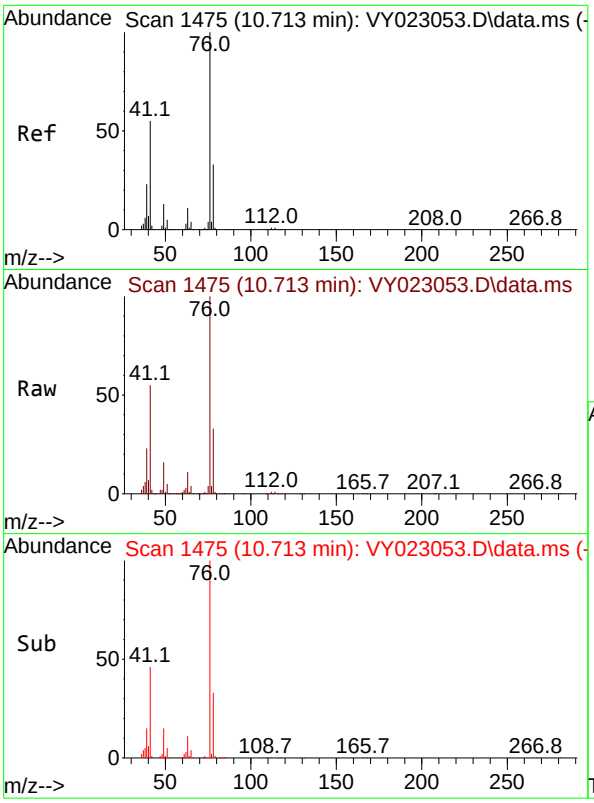


#56
Ethyl methacrylate
Concen: 51.576 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 69 Resp: 273801

Ion	Ratio	Lower	Upper
69	100		
41	60.7	48.6	72.8
39	33.7	27.0	40.4



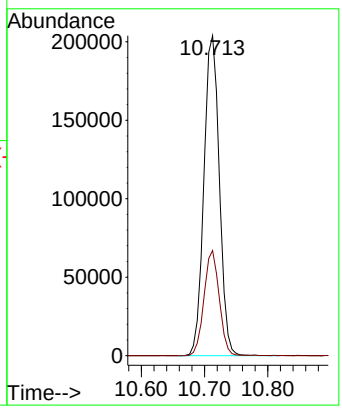


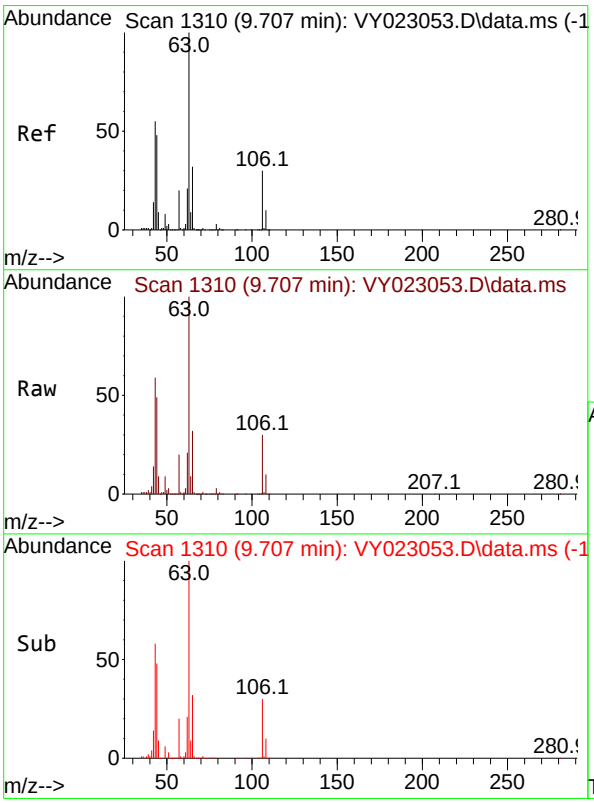
#57
1,3-Dichloropropane
Concen: 49.249 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 346510

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

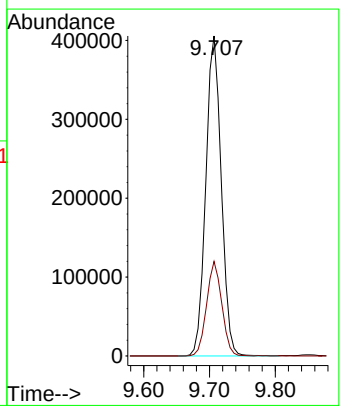


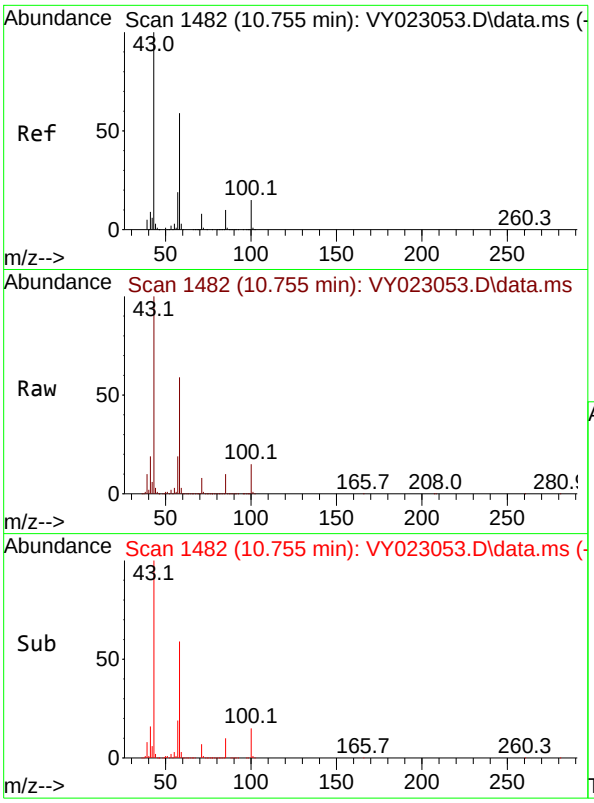


#58
2-Chloroethyl Vinyl ether
Concen: 264.906 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 663351

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.2	34.8



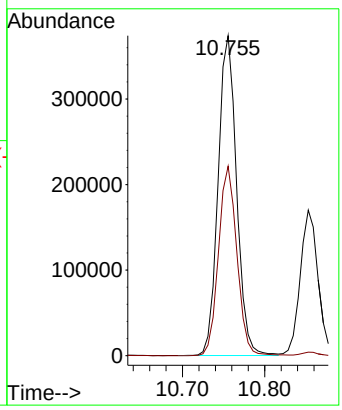


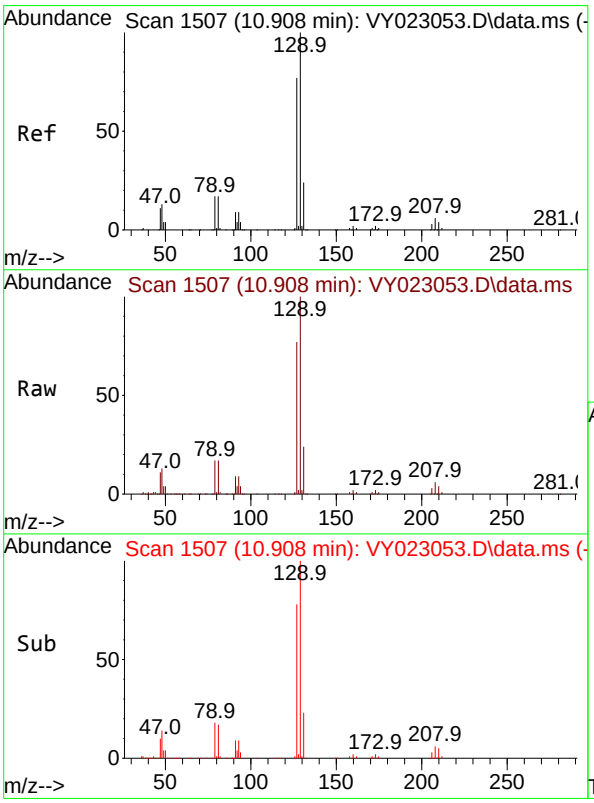
#59
2-Hexanone
Concen: 257.194 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 584223

Ion	Ratio	Lower	Upper
43	100		
58	59.0	29.5	88.5

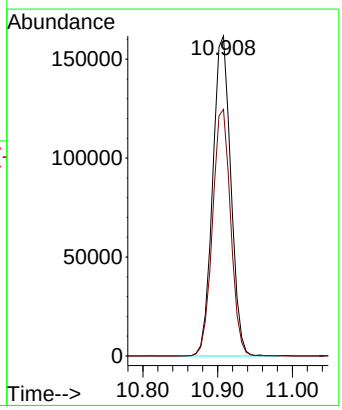


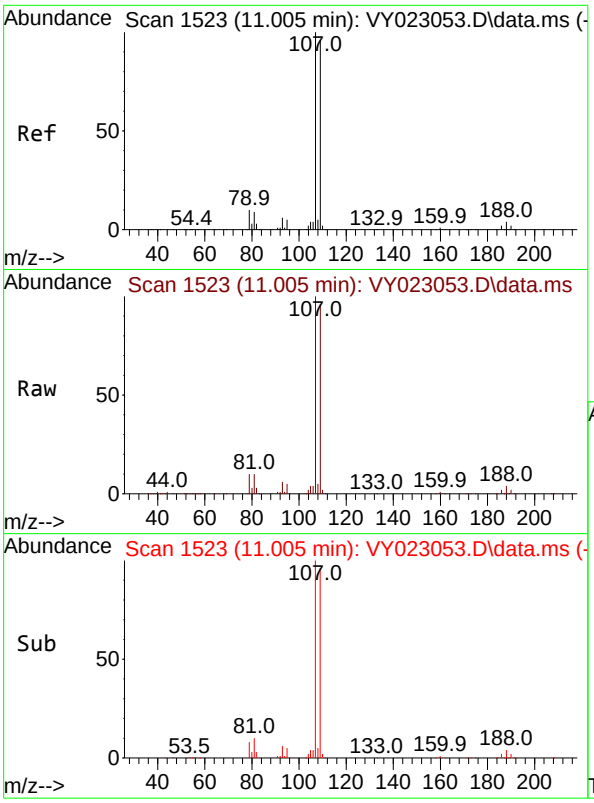


#60
Dibromochloromethane
Concen: 49.719 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:129 Resp: 272171

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5



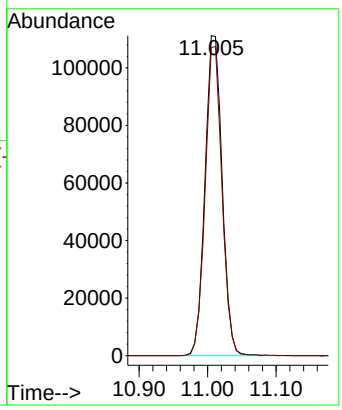


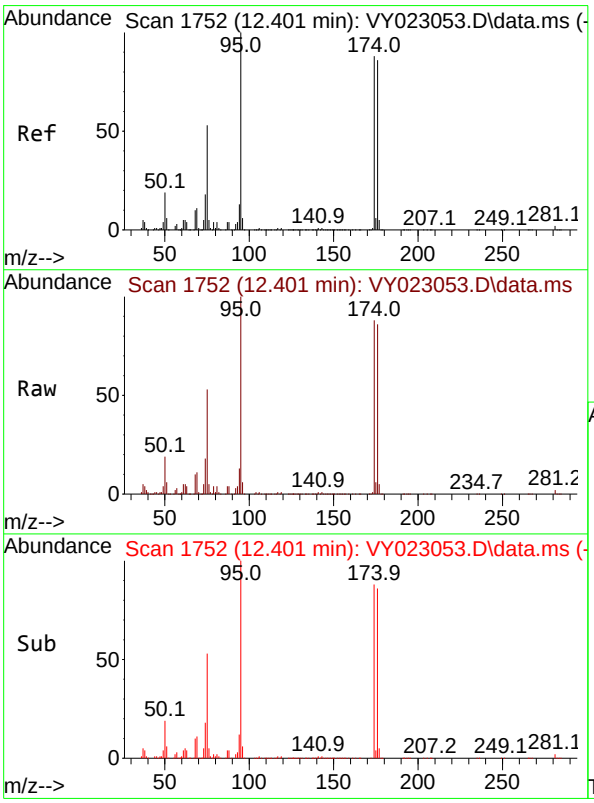
#61
1,2-Dibromoethane
Concen: 49.598 ug/l
RT: 11.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 193398

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

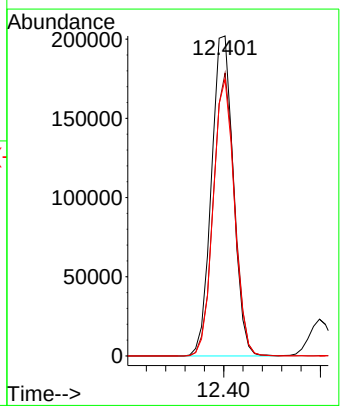


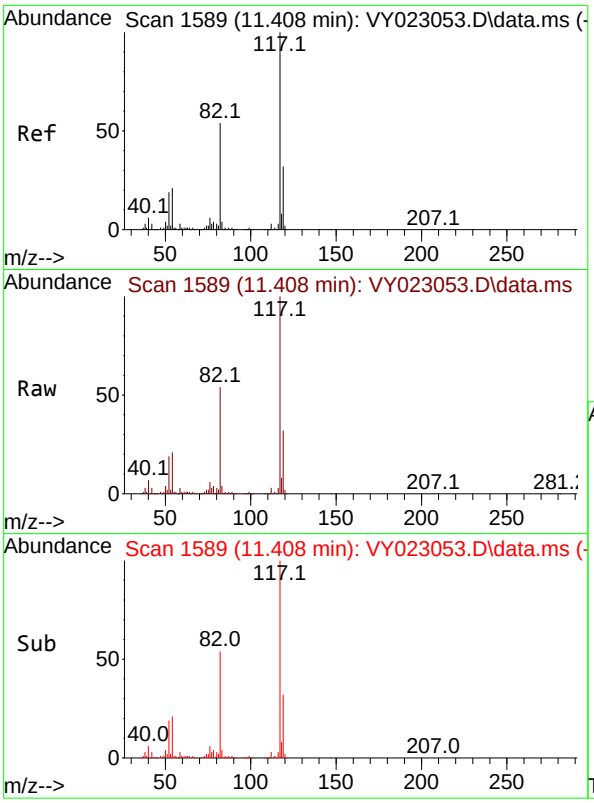


#62
4-Bromofluorobenzene
Concen: 49.194 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 95 Resp: 316770

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	171.6
176	83.8	0.0	167.6



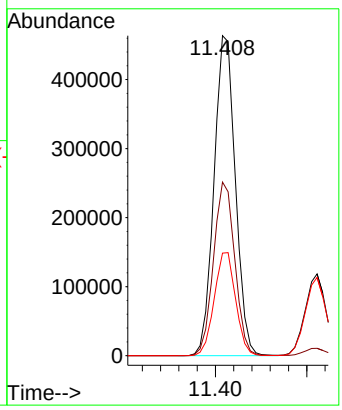


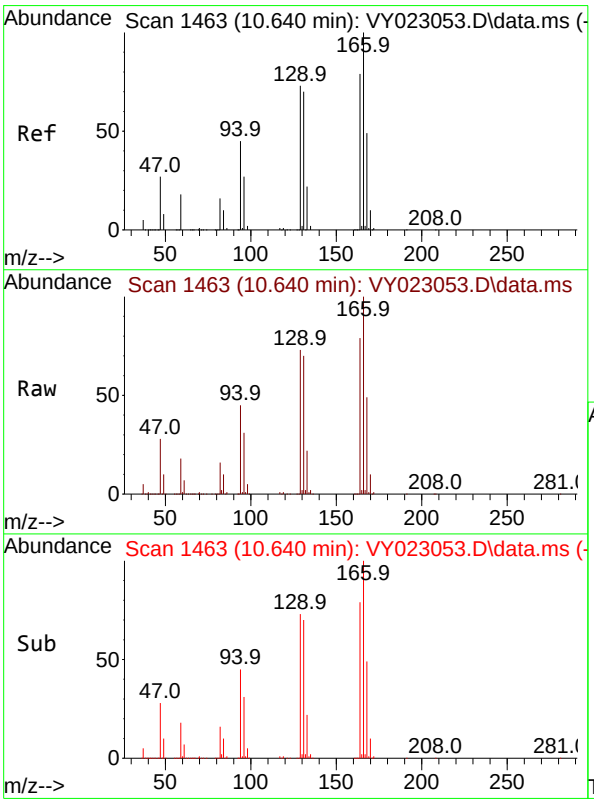
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 751969

Ion	Ratio	Lower	Upper
117	100		
82	54.2	43.4	65.0
119	32.0	25.6	38.4

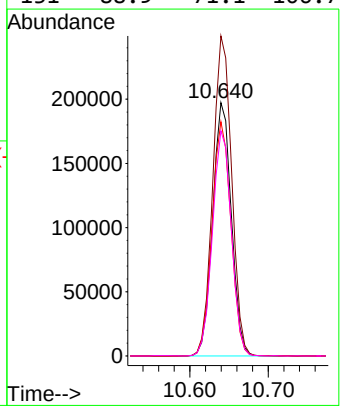


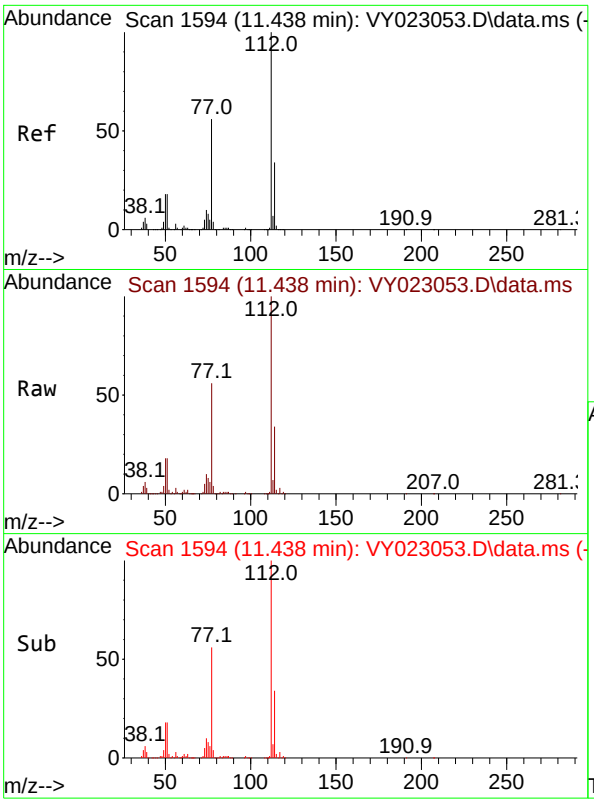


#64
Tetrachloroethene
Concen: 48.740 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:164 Resp: 327271

Ion	Ratio	Lower	Upper
164	100		
166	126.4	101.1	151.7
129	92.5	74.0	111.0
131	88.9	71.1	106.7



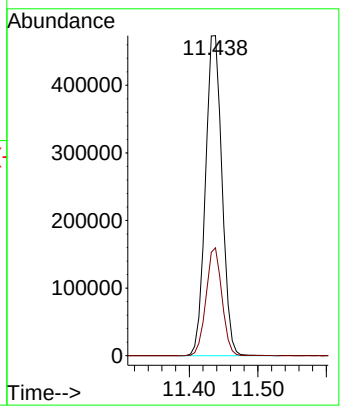


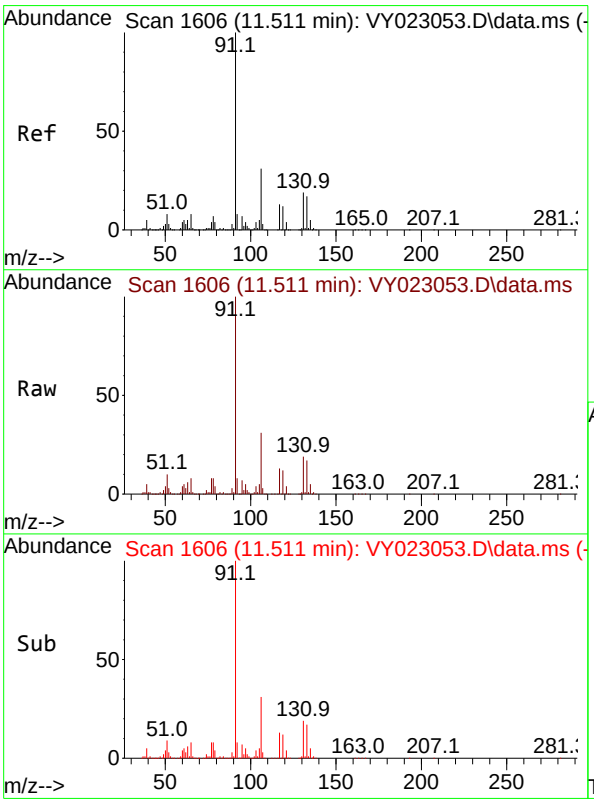
#65
Chlorobenzene
Concen: 48.920 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 793490

Ion	Ratio	Lower	Upper
112	100		
114	33.7	27.0	40.4

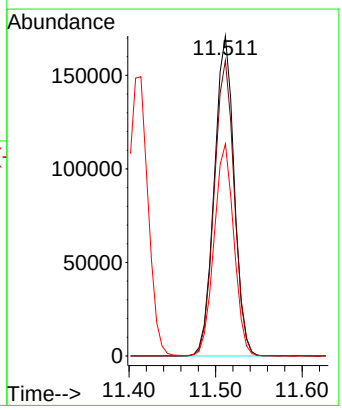


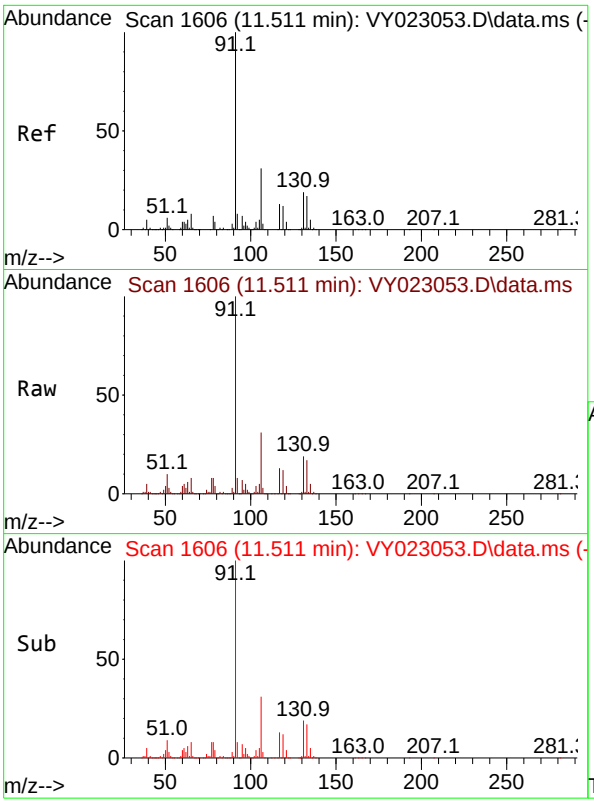


#66
1,1,1,2-Tetrachloroethane
Concen: 49.381 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:131 Resp: 271839

Ion	Ratio	Lower	Upper
131	100		
133	93.7	46.9	140.6
119	66.4	33.2	99.6



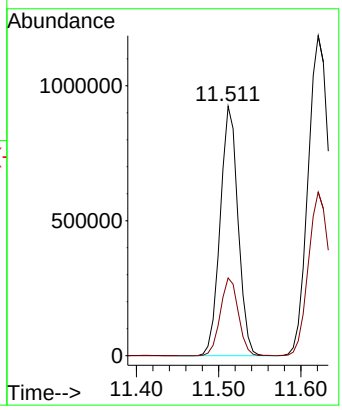


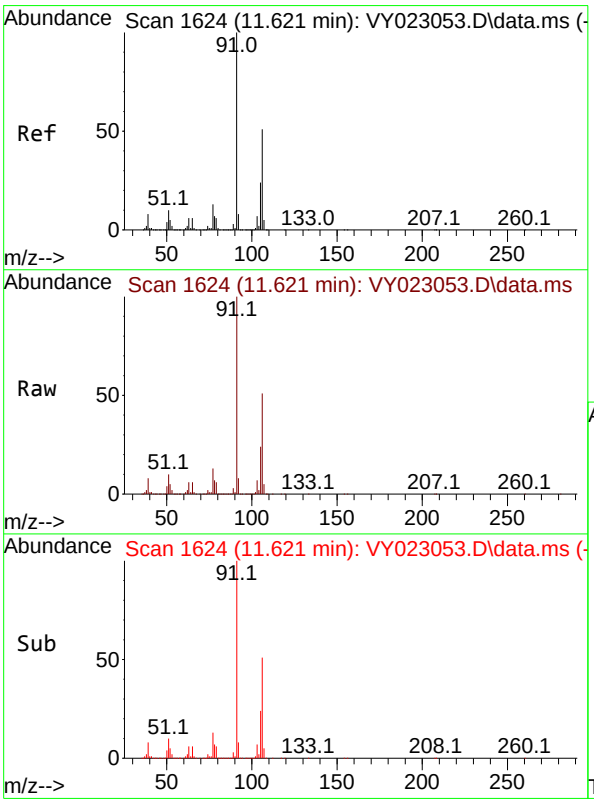
#67
Ethyl Benzene
Concen: 50.073 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1397704

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4

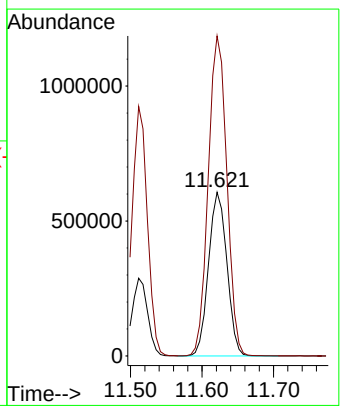


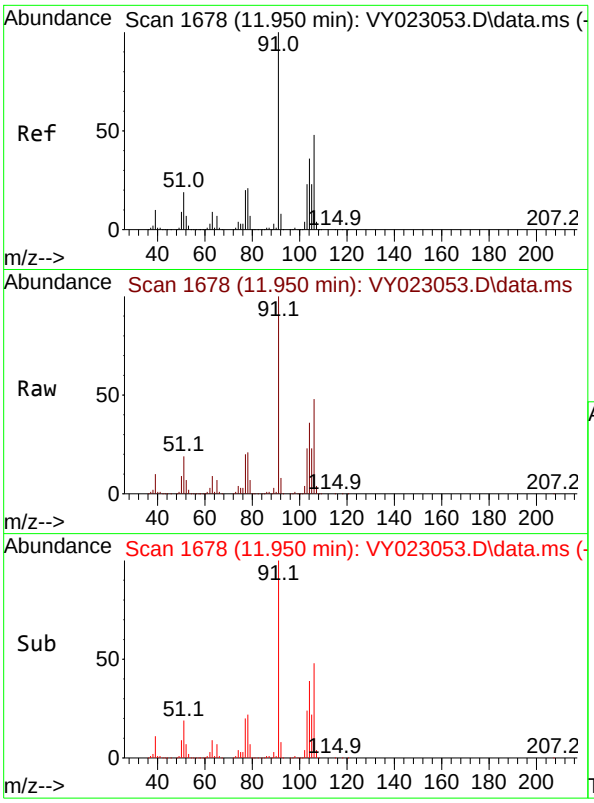


#68
m/p-Xylenes
Concen: 99.103 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 1080401

Ion	Ratio	Lower	Upper
106	100		
91	198.3	158.6	238.0



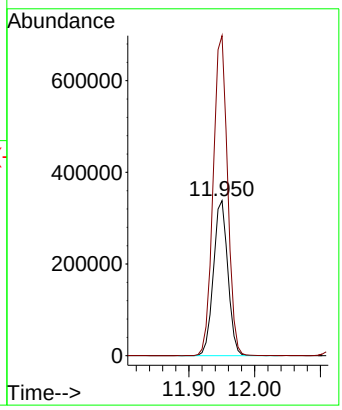


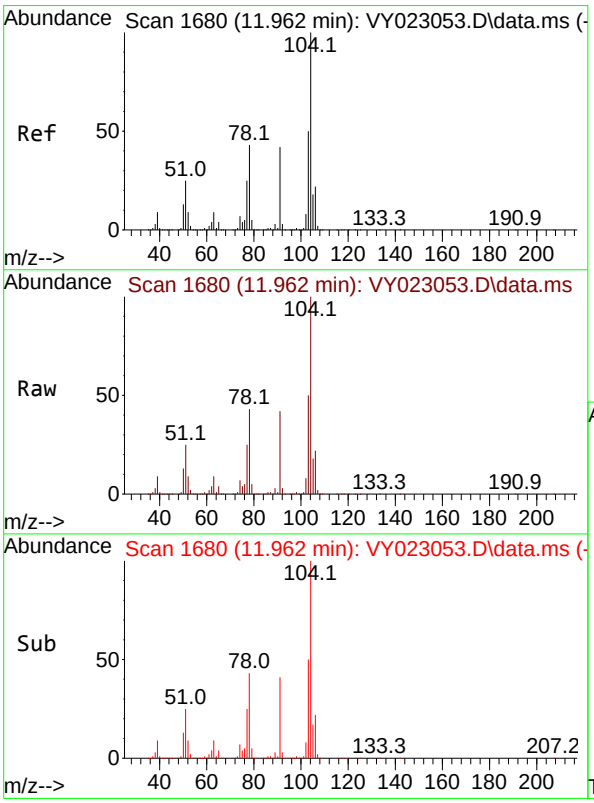
#69
o-Xylene
Concen: 50.536 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 516002

Ion	Ratio	Lower	Upper
106	100		
91	206.3	103.2	309.4

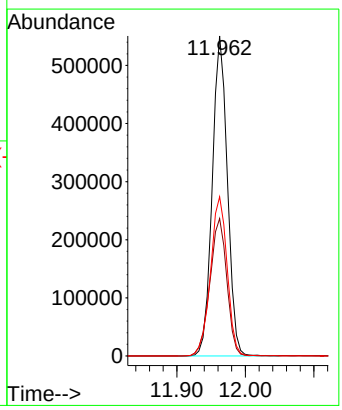


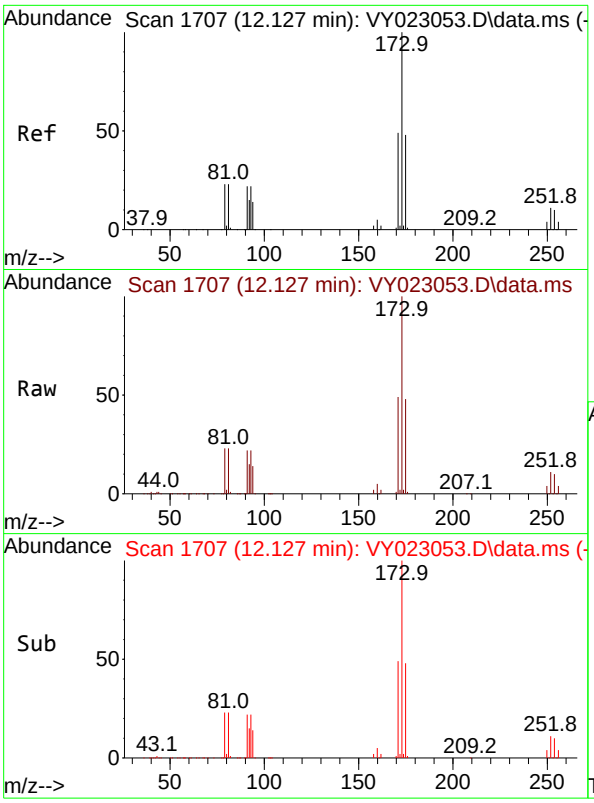


#70
Styrene
Concen: 50.569 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:104 Resp: 844409

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	54.6	43.7	65.5



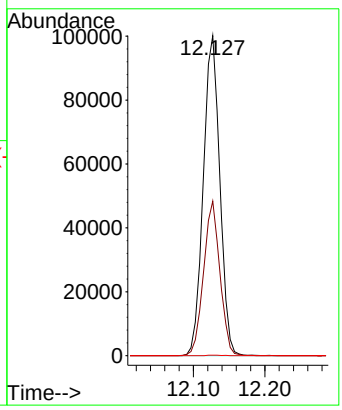


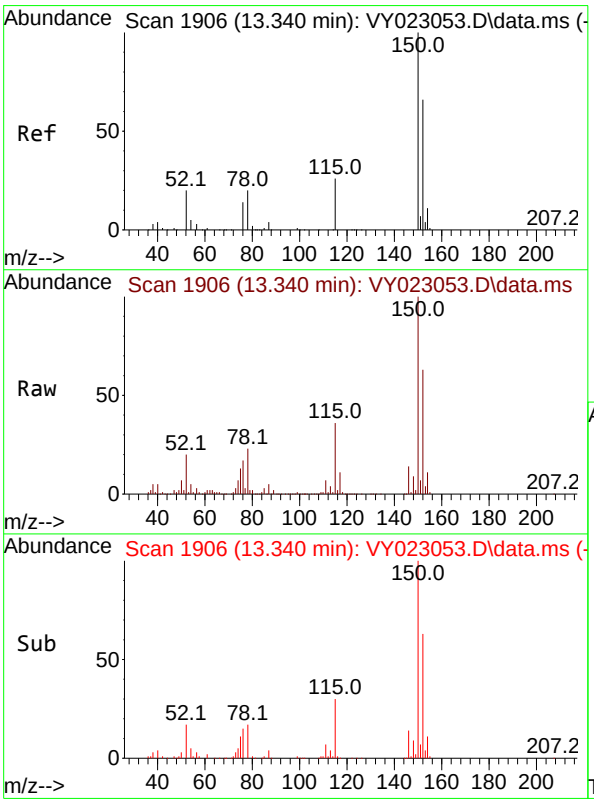
#71
Bromoform
Concen: 49.969 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 160769

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.9	71.7
254	0.1	0.1	0.1#

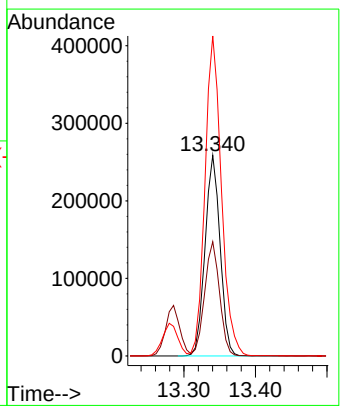


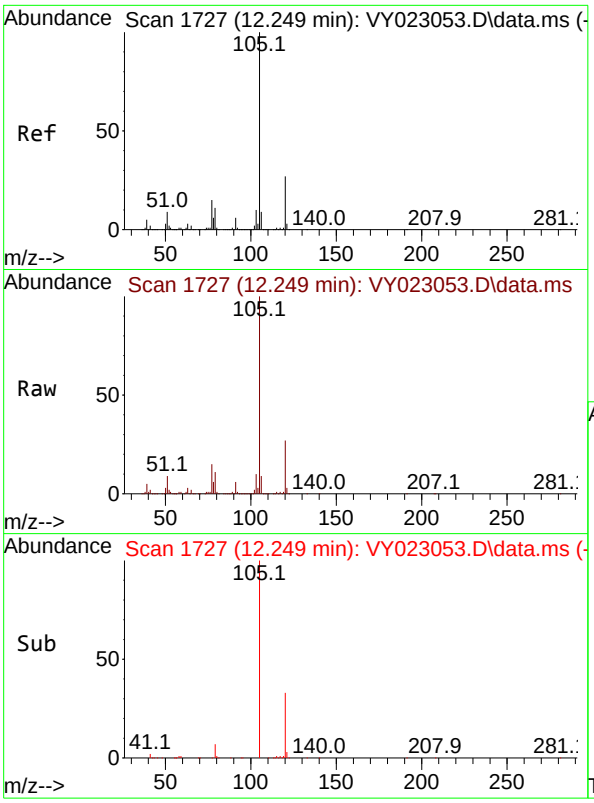


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:152 Resp: 377839

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	174.0	0.0	348.0



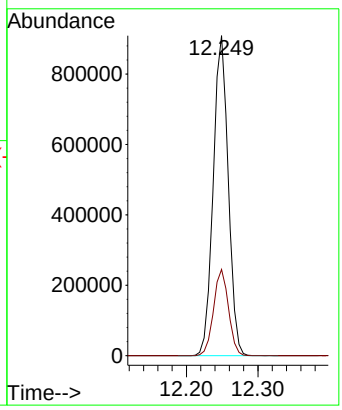


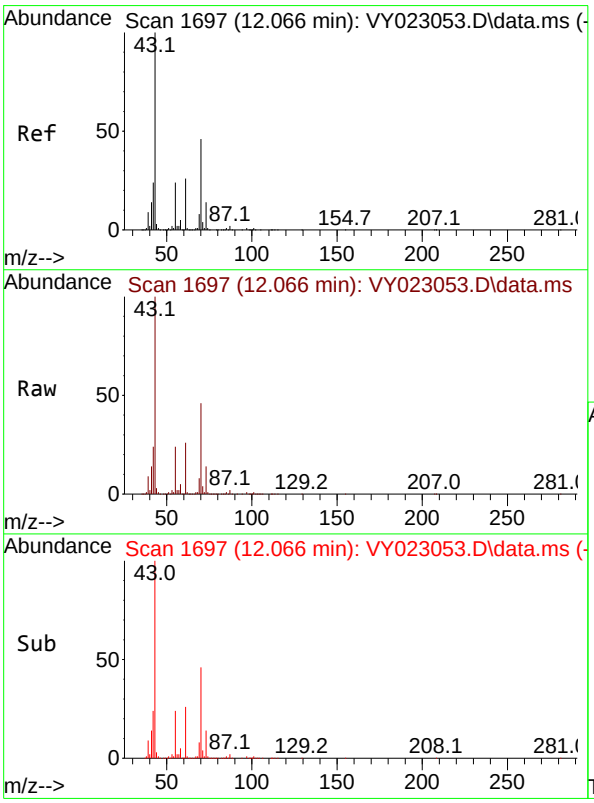
#73
Isopropylbenzene
Concen: 49.660 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 1324313

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2

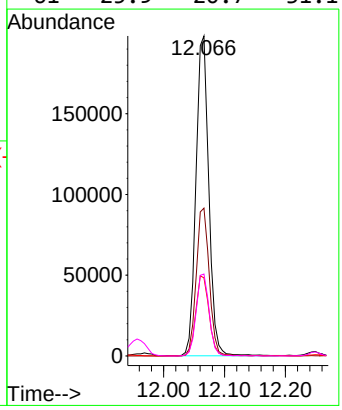


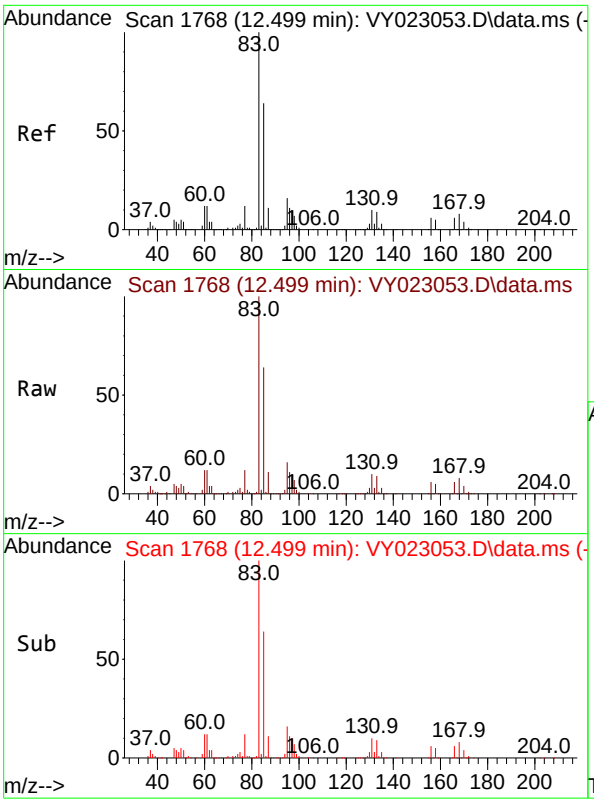


#74
N-amyl acetate
Concen: 51.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 289914

Ion	Ratio	Lower	Upper
43	100		
70	46.9	37.5	56.3
55	25.9	20.7	31.1
61	25.9	20.7	31.1



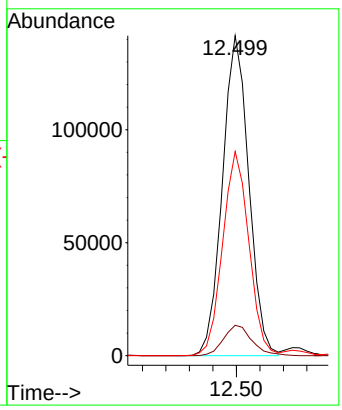


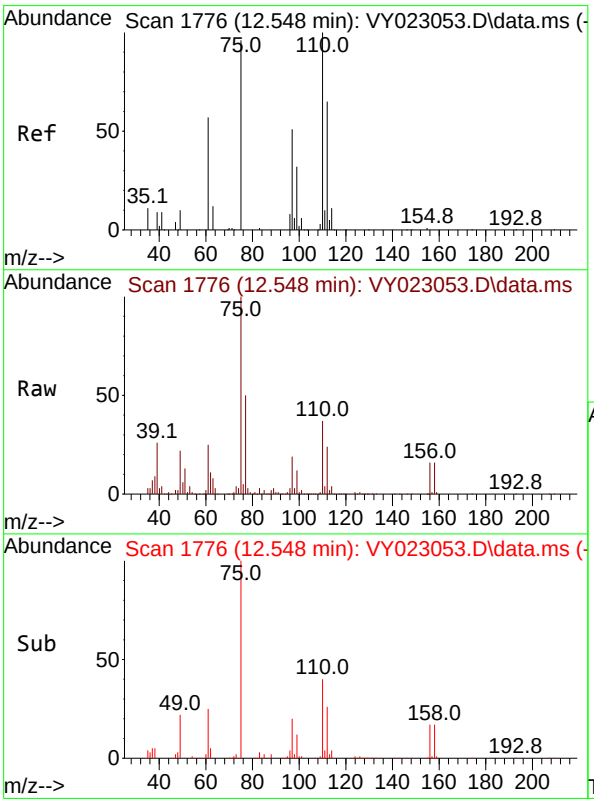
#75
1,1,2,2-Tetrachloroethane
Concen: 48.503 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 220853

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	63.5	31.8	95.3

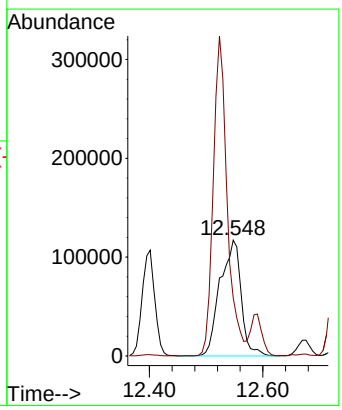


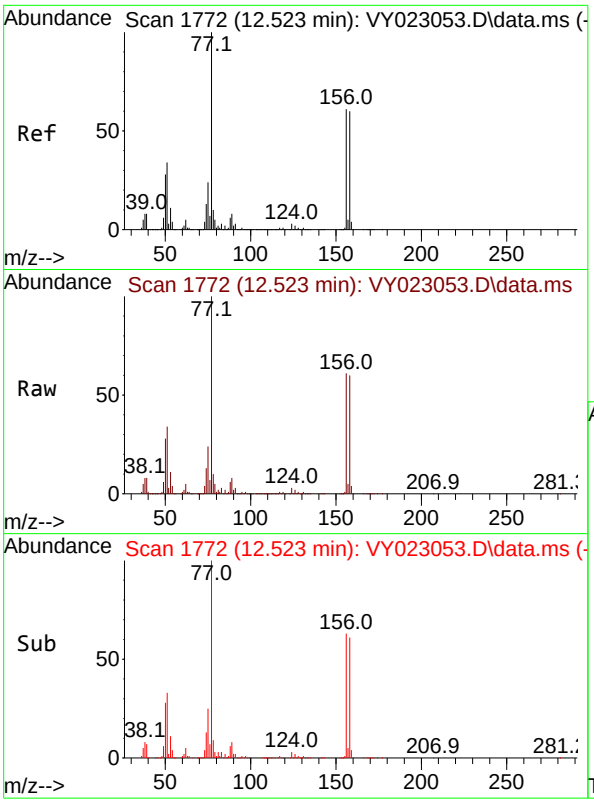


#76
1,2,3-Trichloropropane
Concen: 83.064 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 303093

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



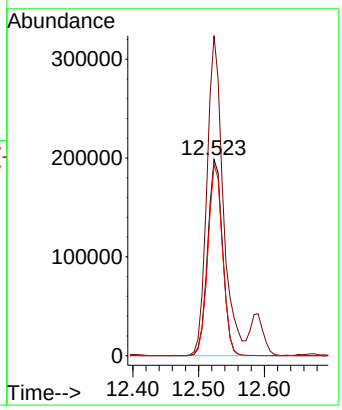


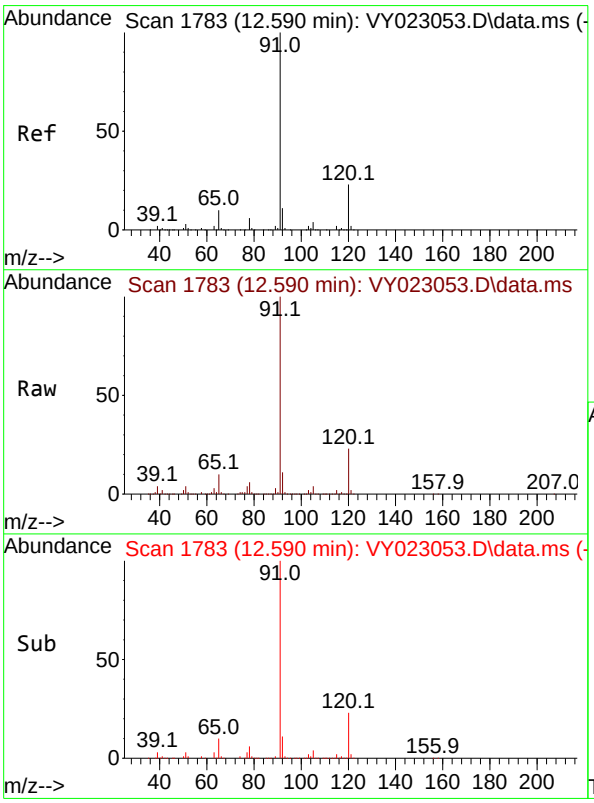
#77
Bromobenzene
Concen: 49.152 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 312706

Ion	Ratio	Lower	Upper
156	100		
77	176.3	88.1	264.4
158	96.0	48.0	144.0

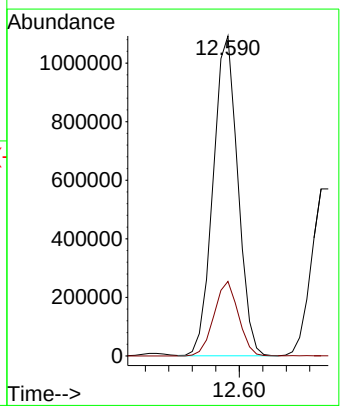


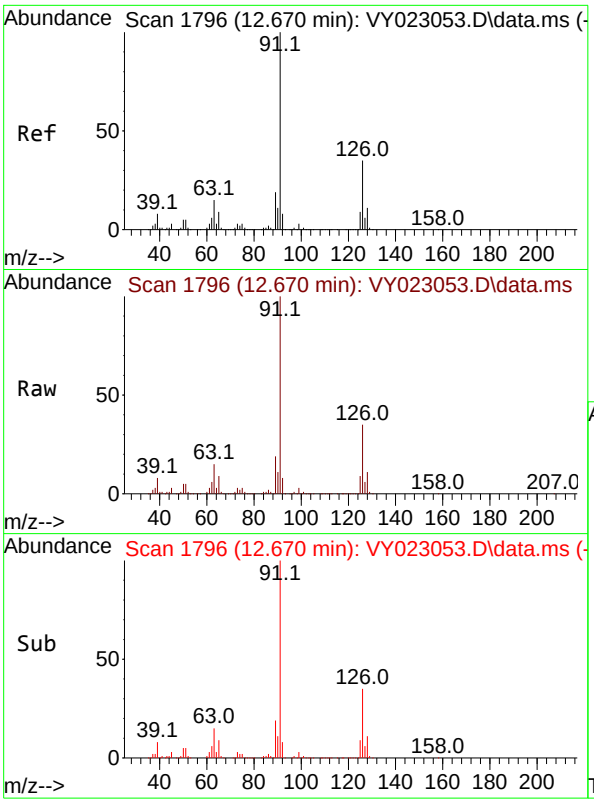


#78
n-propylbenzene
Concen: 50.186 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 1593368

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5



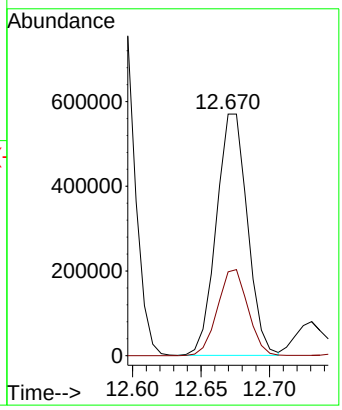


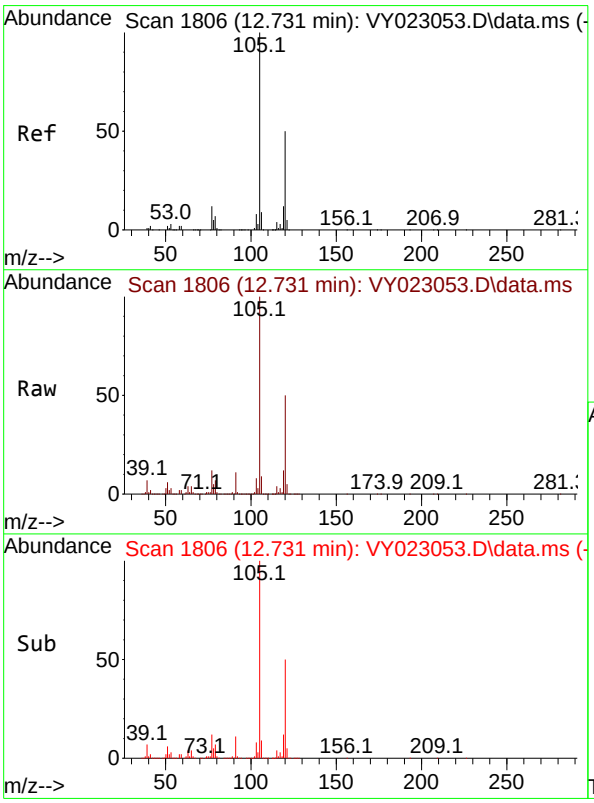
#79
2-Chlorotoluene
Concen: 49.473 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 899967

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

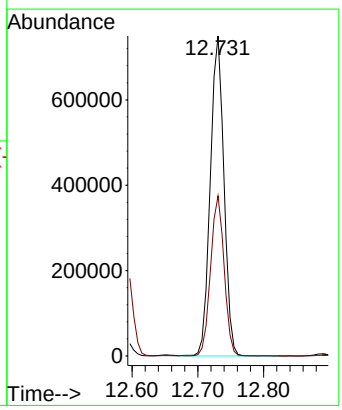


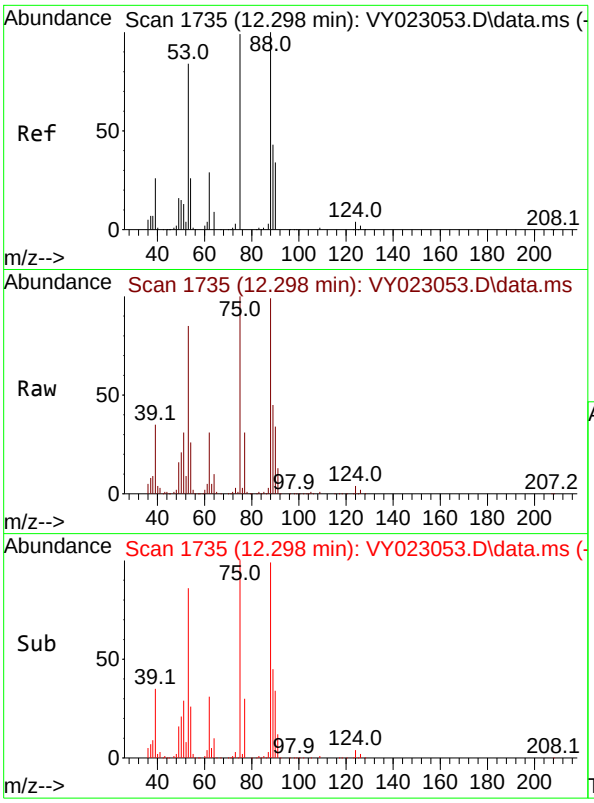


#80
1,3,5-Trimethylbenzene
Concen: 50.126 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1080333

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



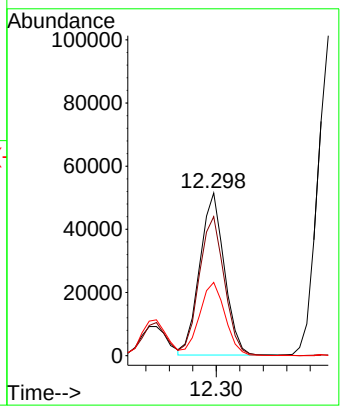


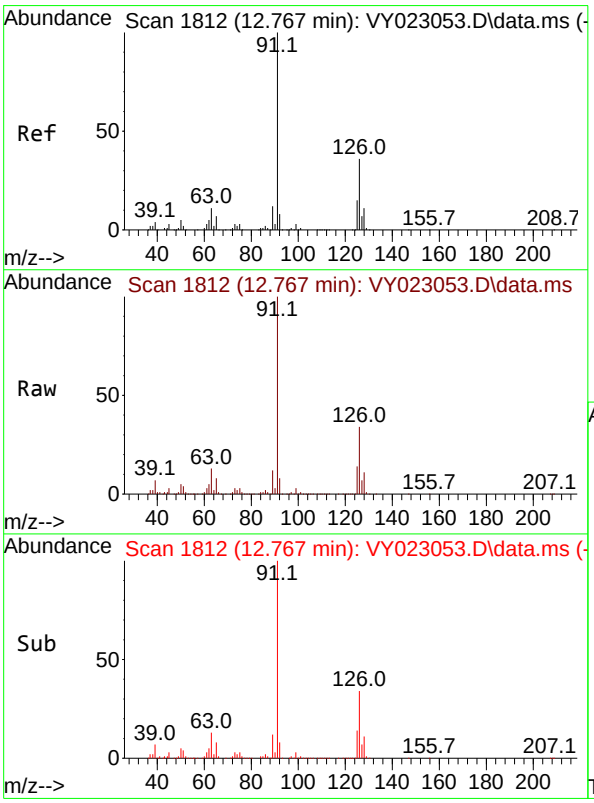
#81
trans-1,4-Dichloro-2-butene
Concen: 49.500 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 74567

Ion	Ratio	Lower	Upper
75	100		
53	88.5	70.8	106.2
89	47.6	38.1	57.1

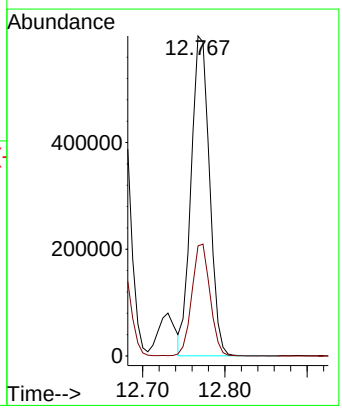


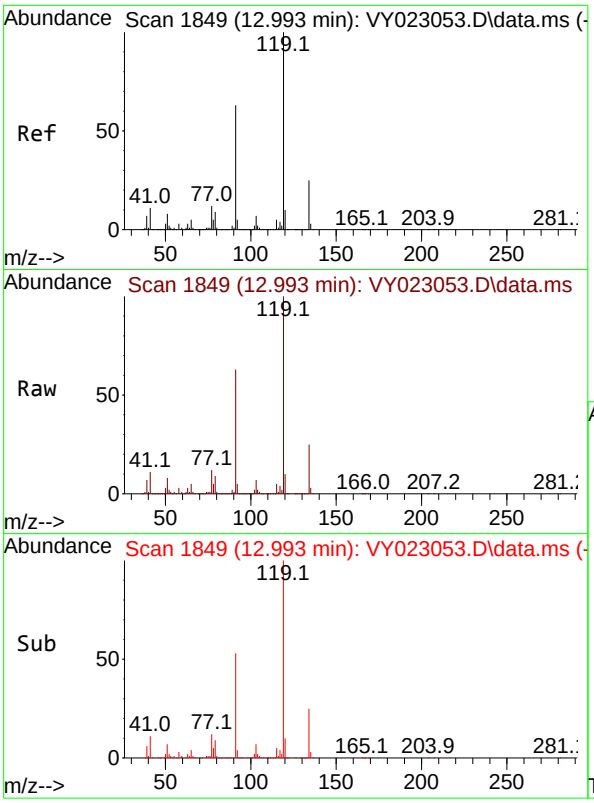


#82
4-Chlorotoluene
Concen: 49.299 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 930329

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0



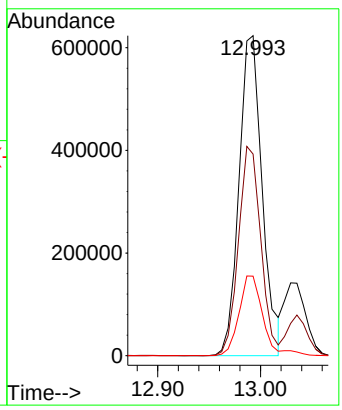


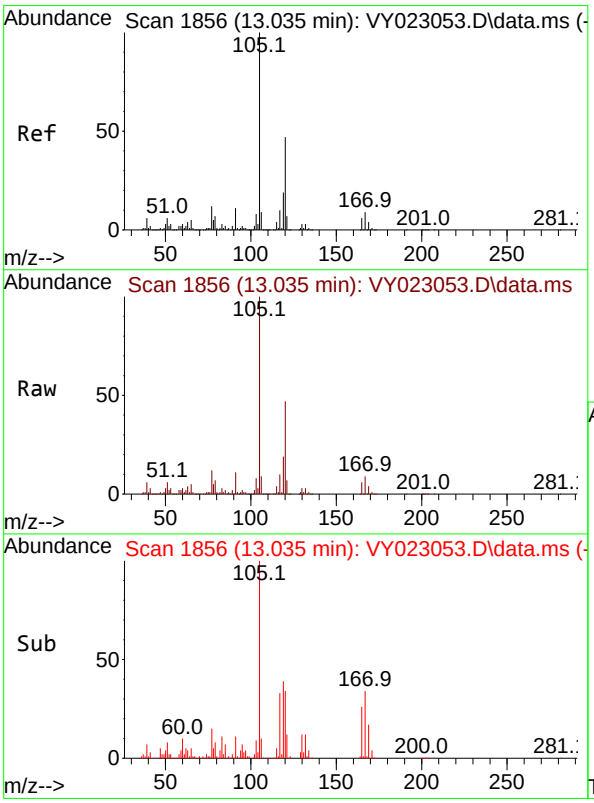
#83
tert-Butylbenzene
Concen: 50.244 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 978031

Ion	Ratio	Lower	Upper
119	100		
91	63.2	31.6	94.8
134	25.8	12.9	38.7

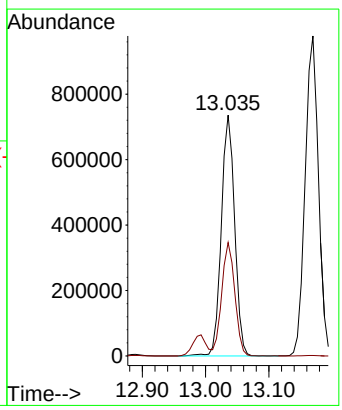


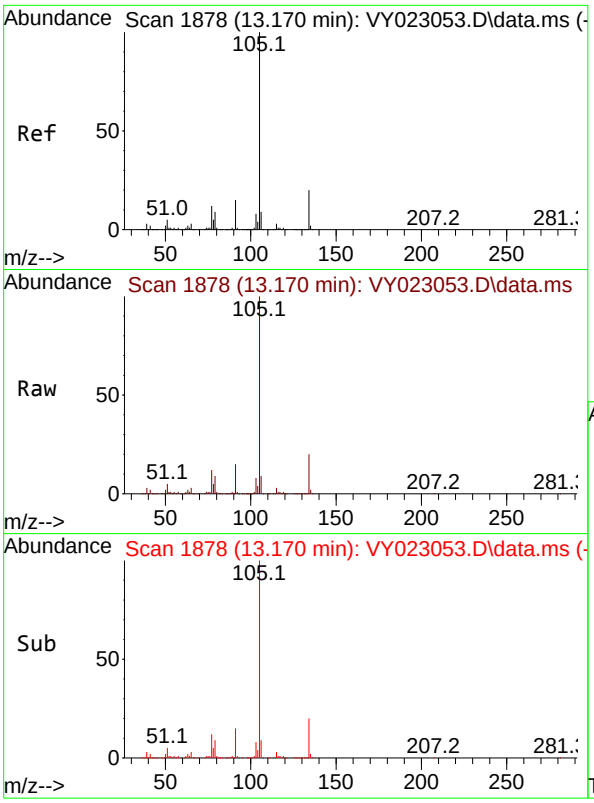


#84
1,2,4-Trimethylbenzene
Concen: 49.963 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1071926

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0



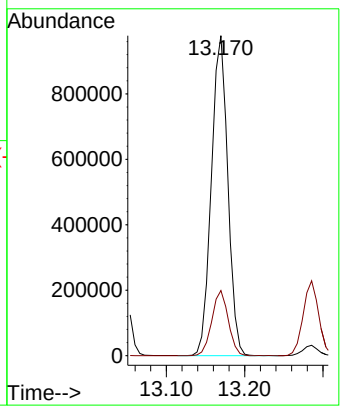


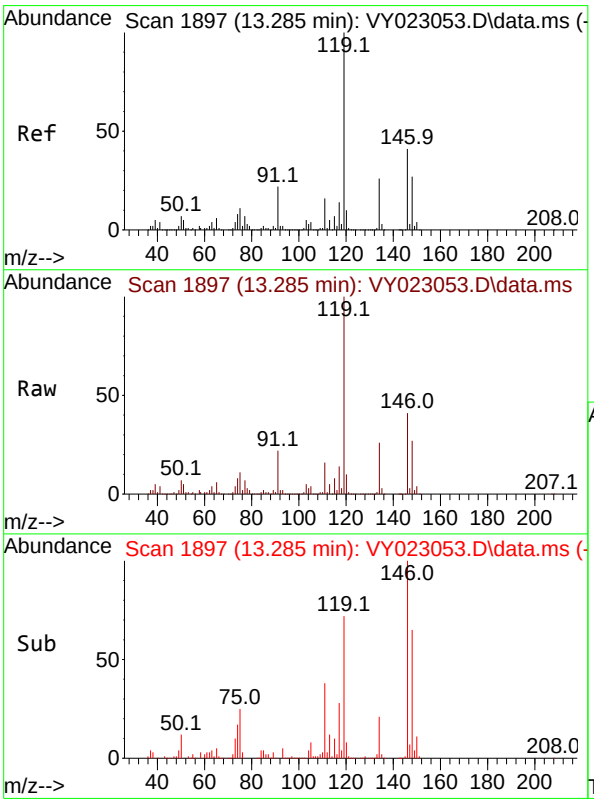
#85
sec-Butylbenzene
Concen: 49.854 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 1425553

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4

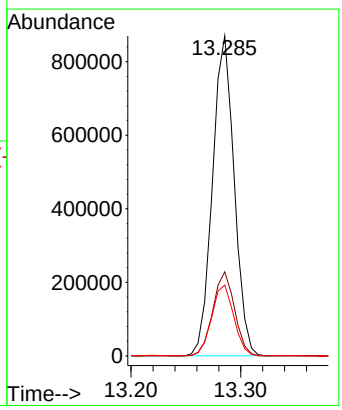


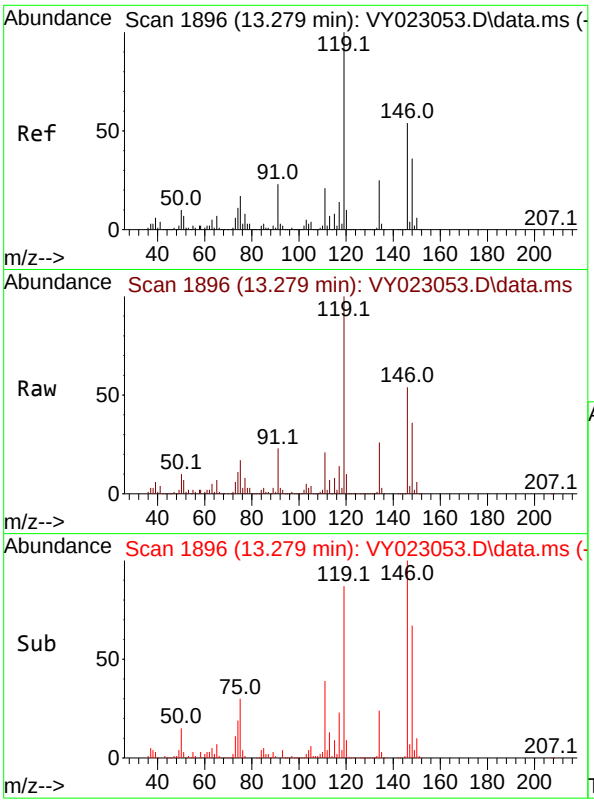


#86
p-Isopropyltoluene
Concen: 50.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:119 Resp: 1196645

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.6
91	22.5	11.3	33.8



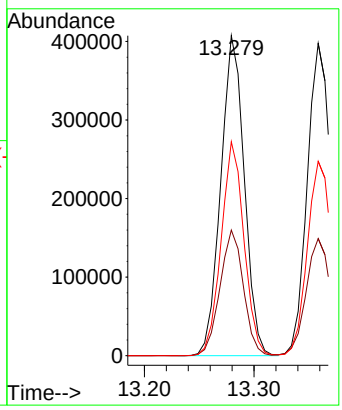


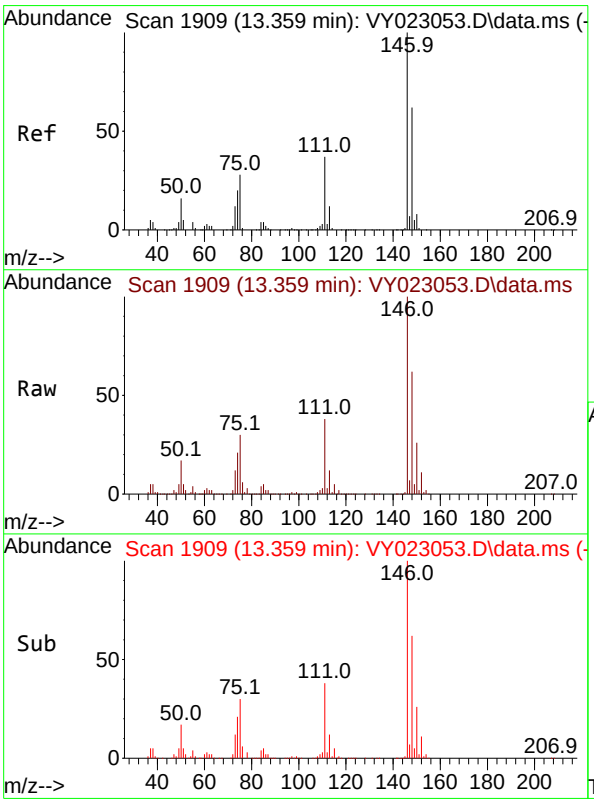
#87
1,3-Dichlorobenzene
Concen: 48.481 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 608249

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	65.0	32.5	97.5

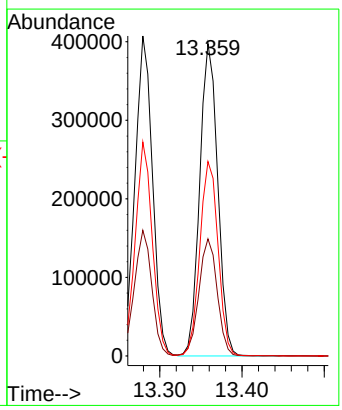


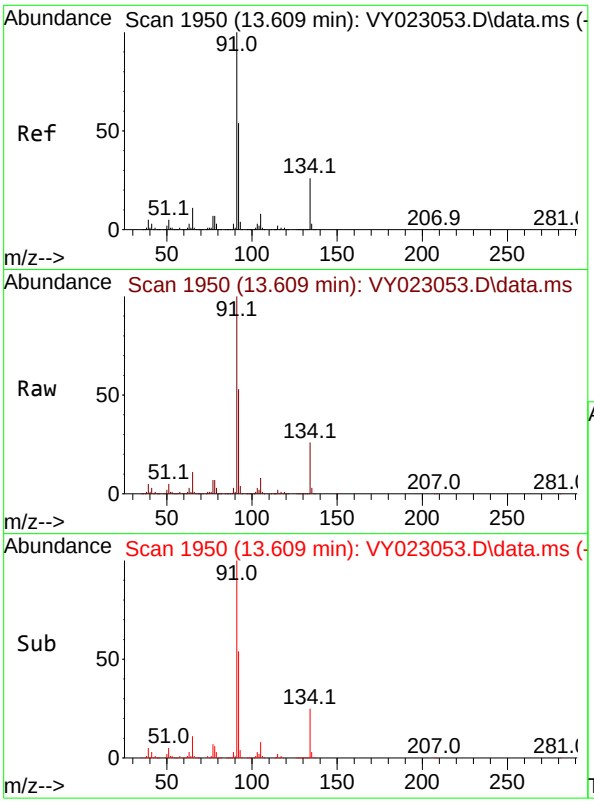


#88
1,4-Dichlorobenzene
Concen: 48.618 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 605079

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.1
148	63.1	31.6	94.7



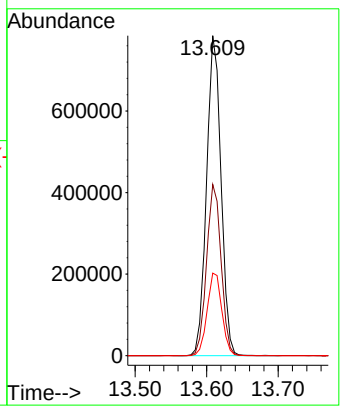


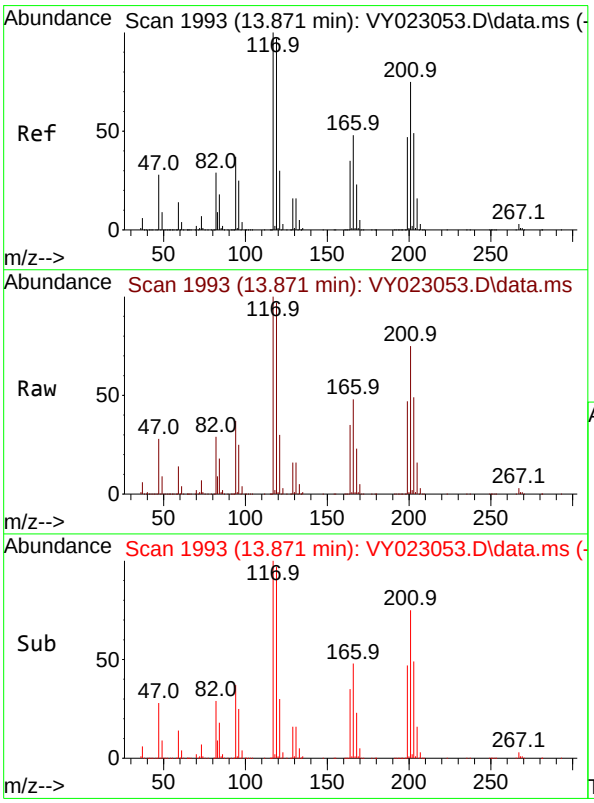
#89
n-Butylbenzene
Concen: 50.454 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1099864

Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.9	80.7
134	26.3	13.2	39.5

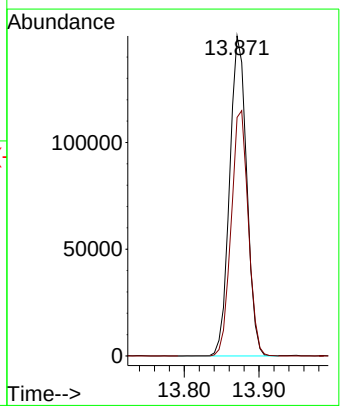


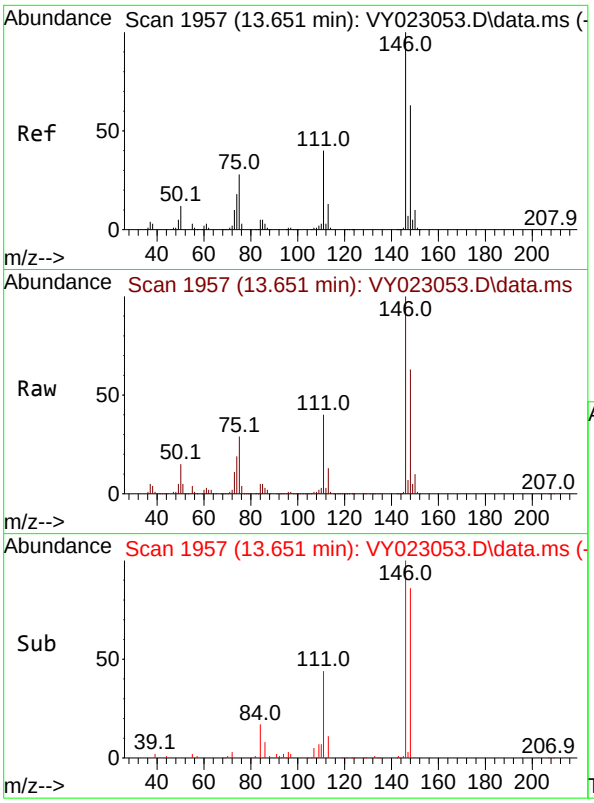


#90
Hexachloroethane
Concen: 48.984 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 238005

Ion	Ratio	Lower	Upper
117	100		
201	76.7	38.4	115.1



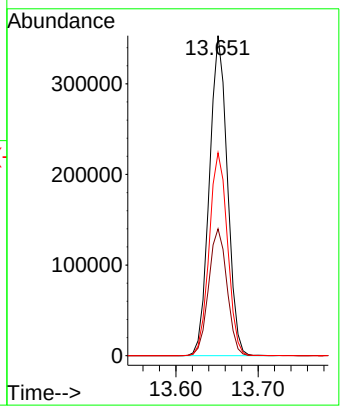


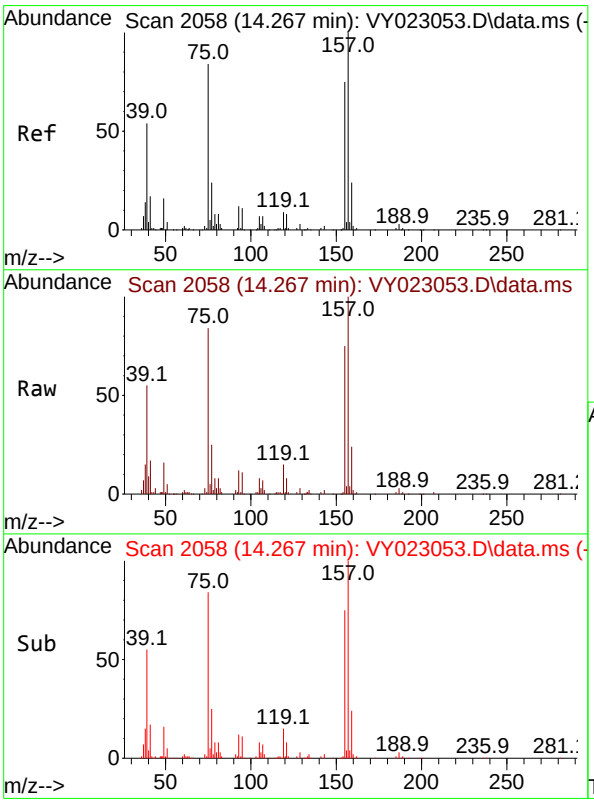
#91
1,2-Dichlorobenzene
Concen: 48.772 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 536637

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	64.4	32.2	96.6

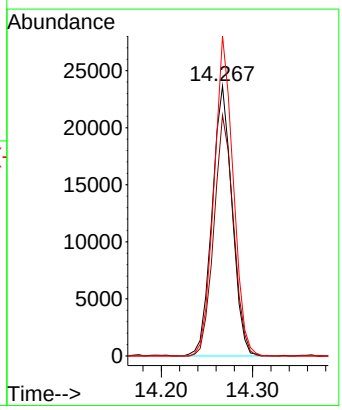


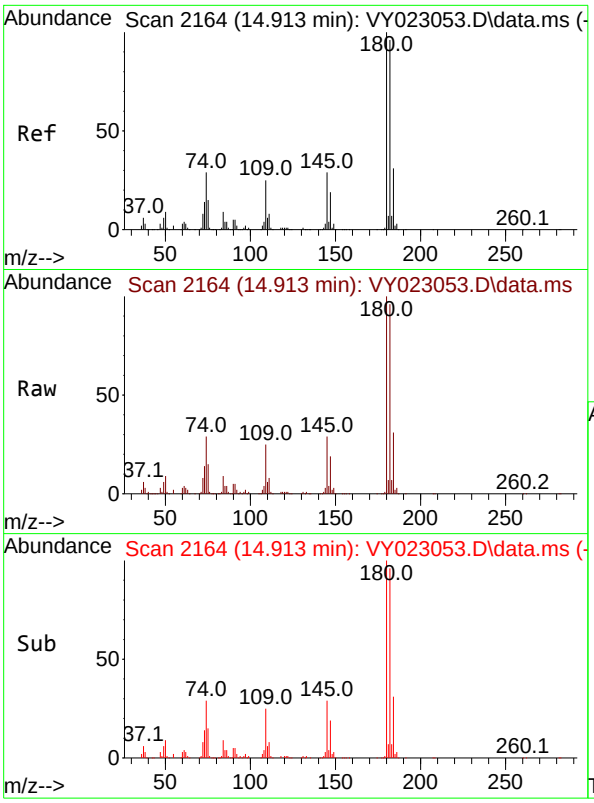


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.592 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 35867

Ion	Ratio	Lower	Upper
75	100		
155	87.7	43.9	131.6
157	114.4	57.2	171.6



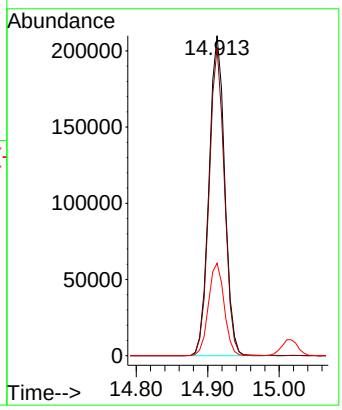


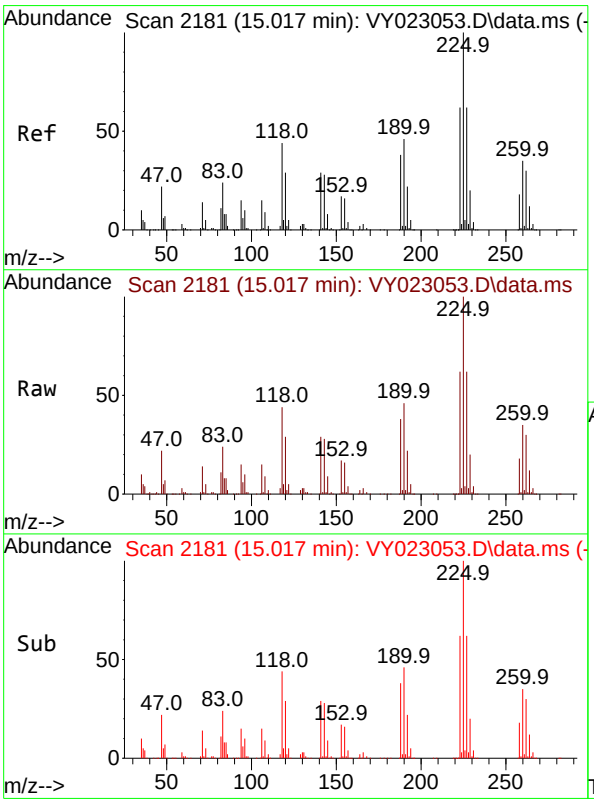
#93
1,2,4-Trichlorobenzene
Concen: 49.192 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 320080

Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.8	140.4
145	28.9	14.4	43.4

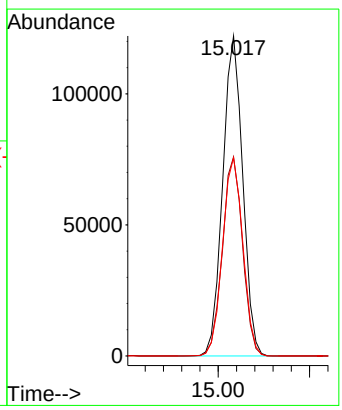


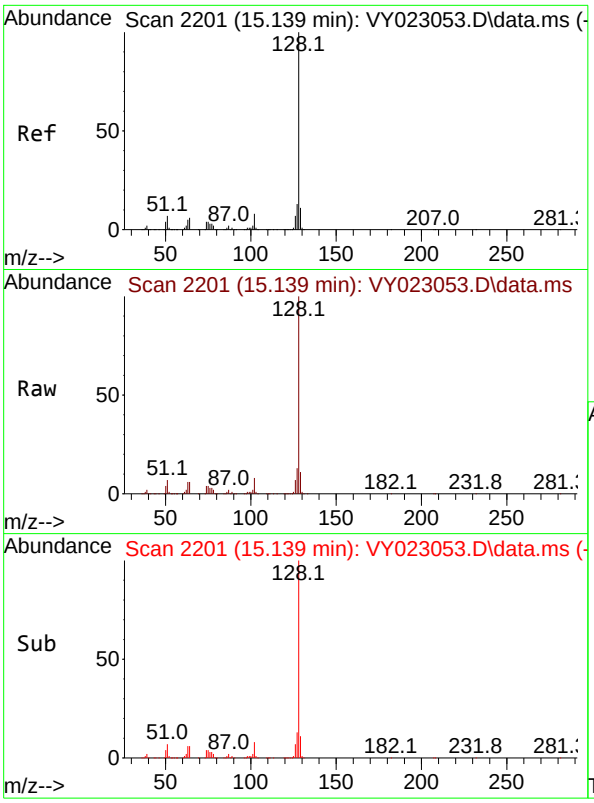


#94
Hexachlorobutadiene
Concen: 48.543 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:225 Resp: 185604

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.3	93.8
227	63.0	31.5	94.5



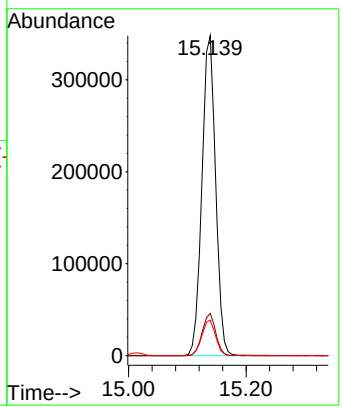


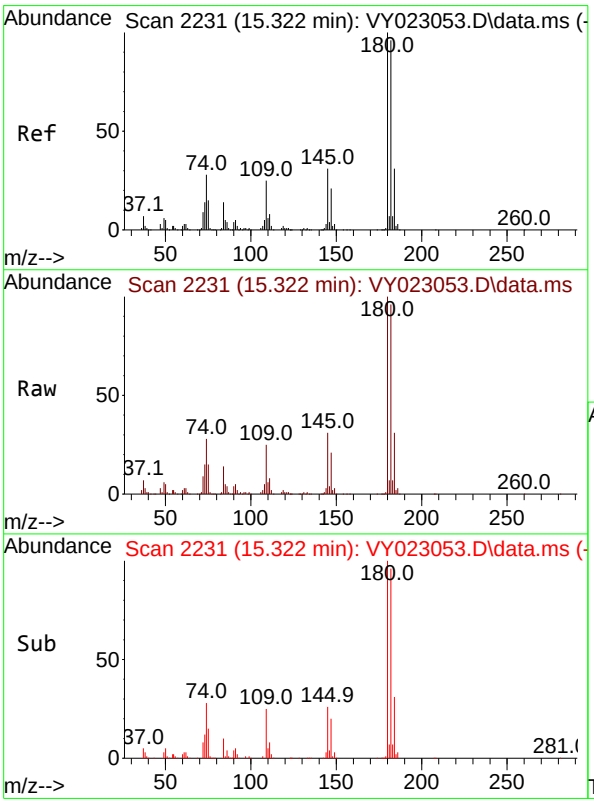
#95
Naphthalene
Concen: 50.685 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 562363

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.2	9.0	13.4

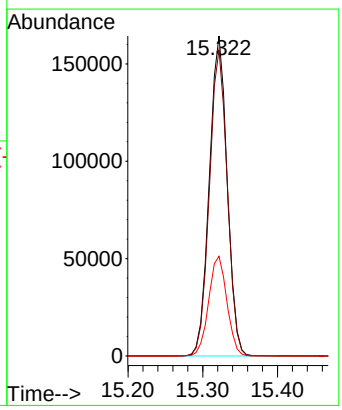




#96
1,2,3-Trichlorobenzene
Concen: 48.540 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 272154

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.7
145	31.8	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	558266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	880463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	784385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	404136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	527356	99.115	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 198.220%#			
35) Dibromofluoromethane	7.628	113	540106	102.518	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 205.040%#			
50) Toluene-d8	10.103	98	2116445	102.832	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 205.660%#			
62) 4-Bromofluorobenzene	12.402	95	702583	106.147	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 212.300%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	376261	82.570	ug/l	98
3) Chloromethane	2.068	50	673475	91.248	ug/l	99
4) Vinyl Chloride	2.202	62	841648	92.250	ug/l	98
5) Bromomethane	2.586	94	643103	94.384	ug/l	100
6) Chloroethane	2.727	64	567515	93.563	ug/l	99
7) Trichlorofluoromethane	3.050	101	1005284	90.617	ug/l	99
8) Diethyl Ether	3.452	74	273400	93.150	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	497408	90.882	ug/l	99
10) Methyl Iodide	4.001	142	629775	106.635	ug/l	99
11) Tert butyl alcohol	4.866	59	162373	445.387	ug/l	99
12) 1,1-Dichloroethene	3.787	96	506919	94.229	ug/l	95
13) Acrolein	3.647	56	240580	450.599	ug/l	100
14) Allyl chloride	4.379	41	759925	96.000	ug/l	99
15) Acrylonitrile	5.049	53	555815	465.802	ug/l	99
16) Acetone	3.867	43	522178	453.007	ug/l	97
17) Carbon Disulfide	4.098	76	1622451	92.494	ug/l	100
18) Methyl Acetate	4.379	43	312127	90.993	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1342237	96.284	ug/l	100
20) Methylene Chloride	4.610	84	570465	97.847	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	580972	96.098	ug/l	99
22) Diisopropyl ether	6.019	45	1686285	98.033	ug/l	99
23) Vinyl Acetate	5.958	43	4632278	487.023	ug/l	100
24) 1,1-Dichloroethane	5.909	63	1012815	96.306	ug/l	100
25) 2-Butanone	6.890	43	722555	460.899	ug/l	97
26) 2,2-Dichloropropane	6.878	77	866598	95.497	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	681242	97.472	ug/l	100
28) Bromochloromethane	7.244	49	409677	98.188	ug/l	100
29) Tetrahydrofuran	7.256	42	451254	464.370	ug/l	100
30) Chloroform	7.415	83	1045381	96.383	ug/l	96
31) Cyclohexane	7.695	56	884707	89.271	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	929858	96.620	ug/l	99
36) 1,1-Dichloropropene	7.829	75	755114	96.443	ug/l	99
37) Ethyl Acetate	6.982	43	313447	95.302	ug/l	99
38) Carbon Tetrachloride	7.811	117	819941	96.419	ug/l	98
39) Methylcyclohexane	9.103	83	1011944	98.146	ug/l	99
40) Benzene	8.073	78	2348617	97.324	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	180468	94.973	ug/l		98
42) 1,2-Dichloroethane	8.152	62	597215	95.155	ug/l		100
43) Isopropyl Acetate	8.195	43	636710	95.780	ug/l		99
44) Trichloroethene	8.860	130	602322	96.584	ug/l		97
45) 1,2-Dichloropropane	9.140	63	543589	97.899	ug/l		99
46) Dibromomethane	9.225	93	309302	97.052	ug/l		99
47) Bromodichloromethane	9.420	83	802532	97.864	ug/l		98
48) Methyl methacrylate	9.219	41	319906	100.567	ug/l		99
49) 1,4-Dioxane	9.225	88	71300	1908.039	ug/l		94
51) 4-Methyl-2-Pentanone	9.994	43	1669668	486.924	ug/l		100
52) Toluene	10.164	92	1537088	100.288	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	754278	101.574	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	880571	100.281	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	415556	97.446	ug/l		99
56) Ethyl methacrylate	10.432	69	569556	104.375	ug/l		100
57) 1,3-Dichloropropane	10.713	76	696130	96.253	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	1389847	539.957	ug/l		99
59) 2-Hexanone	10.756	43	1151000	492.950	ug/l		100
60) Dibromochloromethane	10.902	129	557205	99.024	ug/l		99
61) 1,2-Dibromoethane	11.012	107	391650	97.713	ug/l		98
64) Tetrachloroethene	10.640	164	615871	87.931	ug/l		98
65) Chlorobenzene	11.438	112	1658154	98.004	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	573131	99.810	ug/l		99
67) Ethyl Benzene	11.512	91	2914020	100.082	ug/l		98
68) m/p-Xylenes	11.621	106	2312597	203.363	ug/l		98
69) o-Xylene	11.950	106	1100998	103.373	ug/l		99
70) Styrene	11.963	104	1845480	105.953	ug/l		99
71) Bromoform	12.127	173	334886	99.786	ug/l	#	99
73) Isopropylbenzene	12.249	105	2839999	99.567	ug/l		99
74) N-amyl acetate	12.066	43	610668	100.955	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	469810	96.464	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	610364	156.388	ug/l	#	100
77) Bromobenzene	12.524	156	671329	98.655	ug/l		98
78) n-propylbenzene	12.591	91	3360679	98.963	ug/l		99
79) 2-Chlorotoluene	12.670	91	1931460	99.268	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	2321527	100.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	153260	95.118	ug/l		100
82) 4-Chlorotoluene	12.767	91	1988544	98.519	ug/l		100
83) tert-Butylbenzene	12.993	119	2125785	102.102	ug/l		98
84) 1,2,4-Trimethylbenzene	13.036	105	2339432	101.946	ug/l		100
85) sec-Butylbenzene	13.170	105	3056373	99.932	ug/l		100
86) p-Isopropyltoluene	13.286	119	2610936	102.846	ug/l		100
87) 1,3-Dichlorobenzene	13.280	146	1338547	99.748	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	1290840	96.970	ug/l		99
89) n-Butylbenzene	13.609	91	2370706	101.675	ug/l		100
90) Hexachloroethane	13.871	117	510900	98.308	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	1162152	98.749	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	69736	91.965	ug/l		97
93) 1,2,4-Trichlorobenzene	14.913	180	692201	99.460	ug/l		98
94) Hexachlorobutadiene	15.017	225	387707	94.803	ug/l		99
95) Naphthalene	15.133	128	1212227	102.147	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	587990	98.046	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

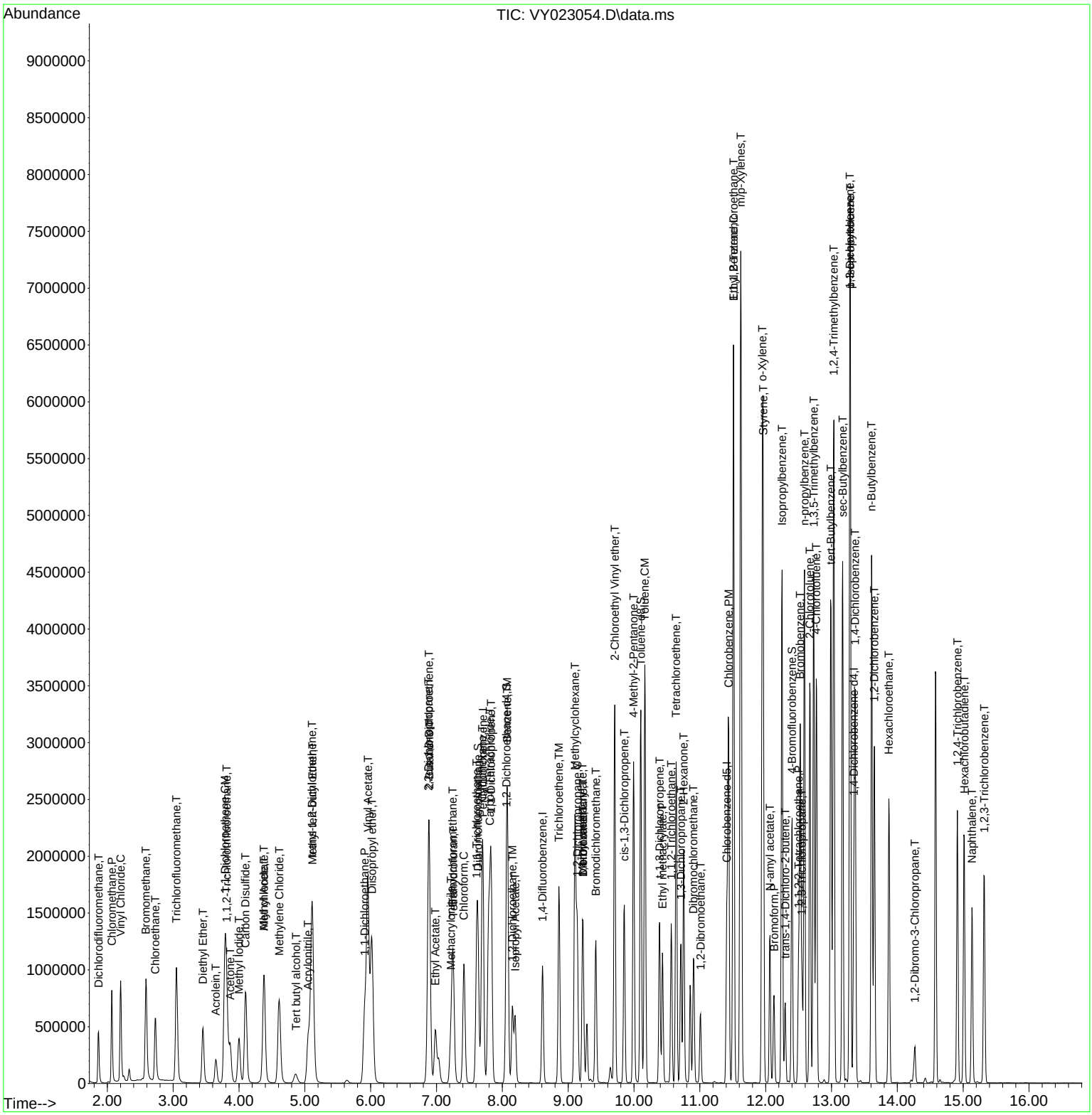
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

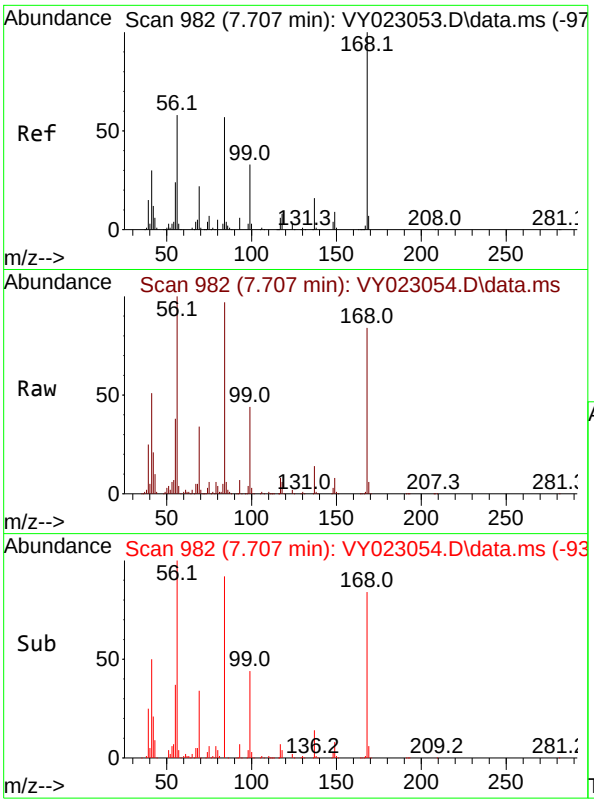
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



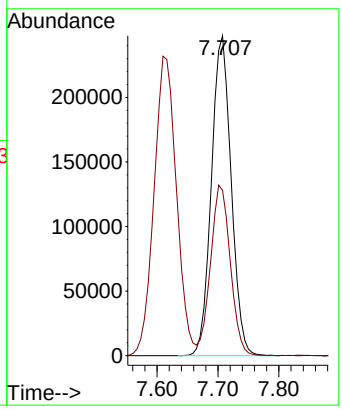


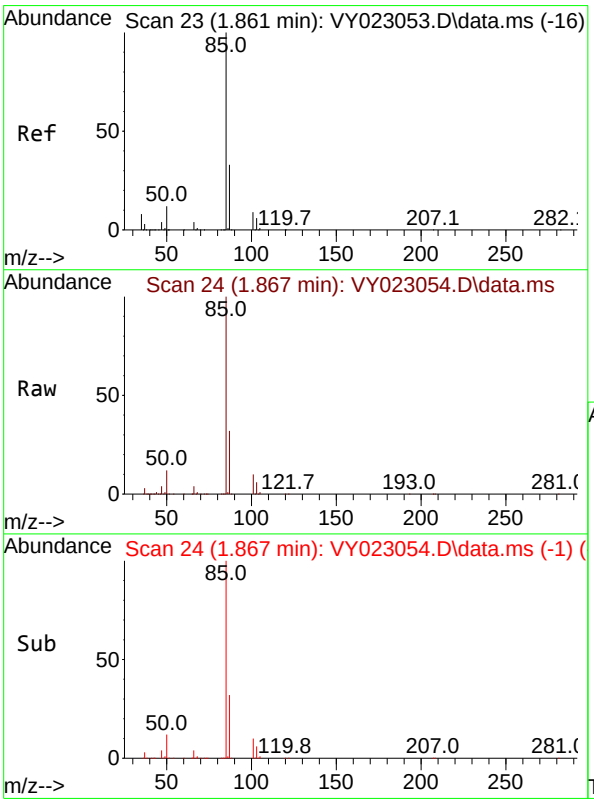
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 558266

Ion	Ratio	Lower	Upper
168	100		
99	51.7	42.8	64.2

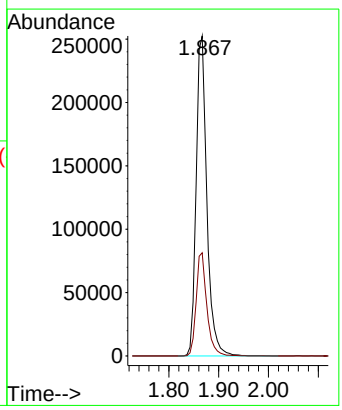


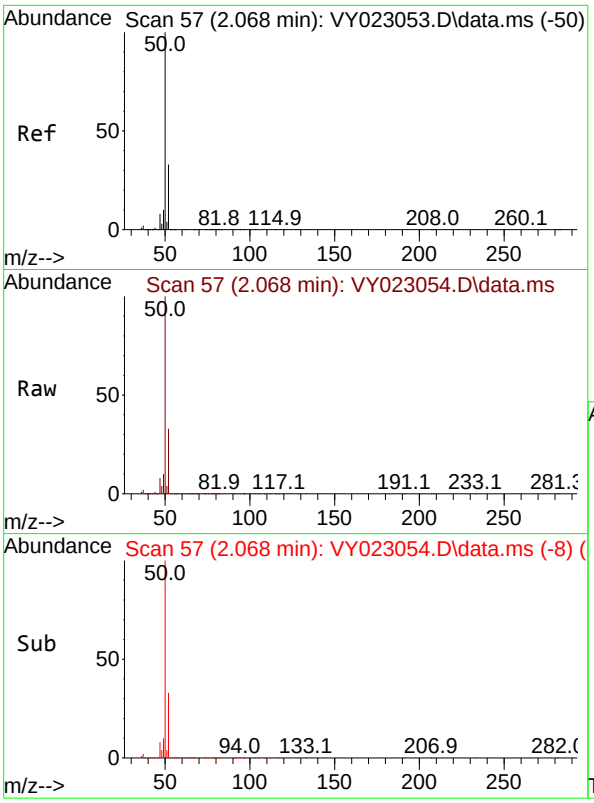


#2
Dichlorodifluoromethane
Concen: 82.570 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 85 Resp: 376261

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



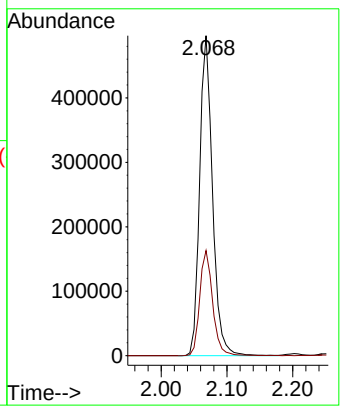


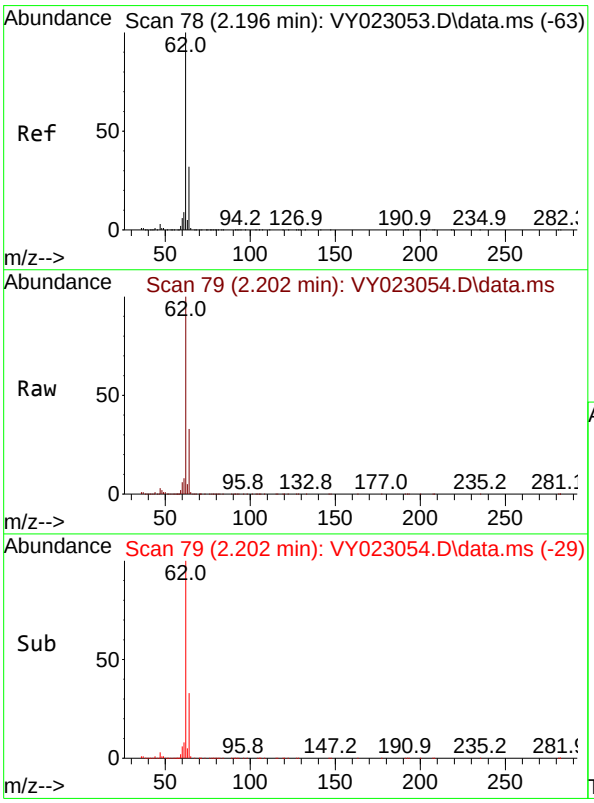
#3
Chloromethane
Concen: 91.248 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 673475

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.7	40.1

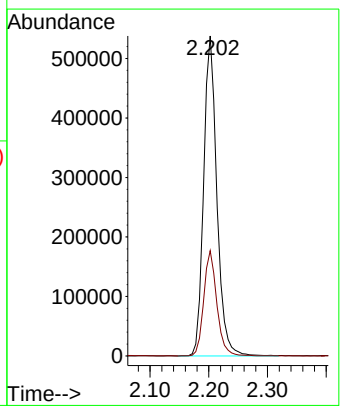


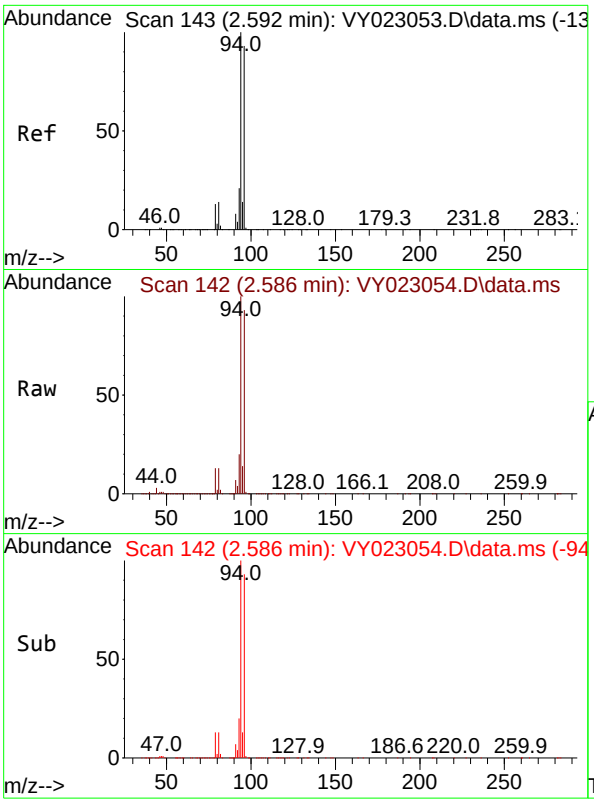


#4
Vinyl Chloride
Concen: 92.250 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 841648

Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.4	38.0



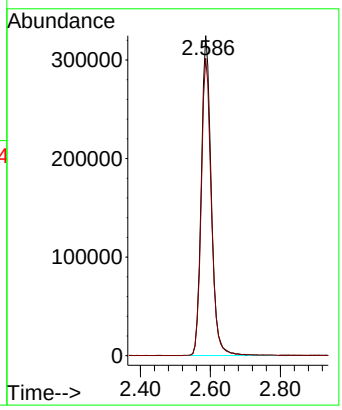


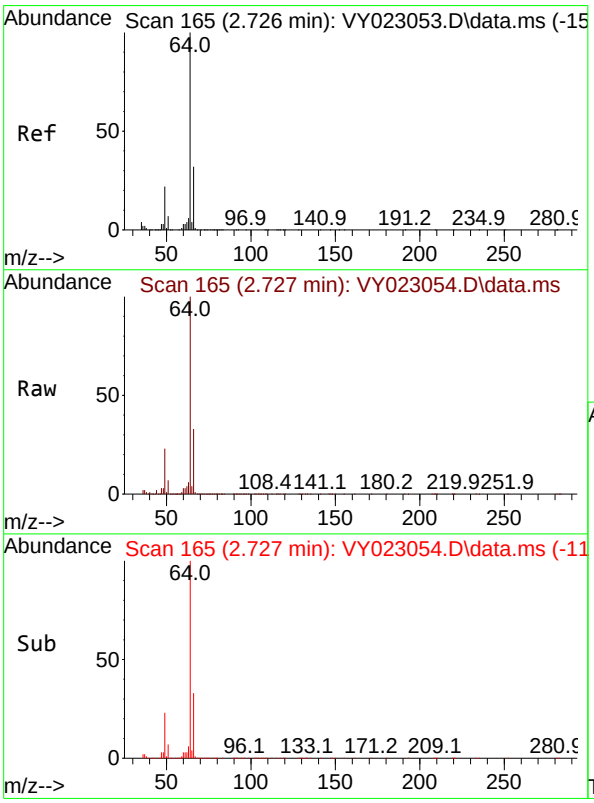
#5
Bromomethane
Concen: 94.384 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 643103

Ion	Ratio	Lower	Upper
94	100		
96	92.9	74.6	112.0

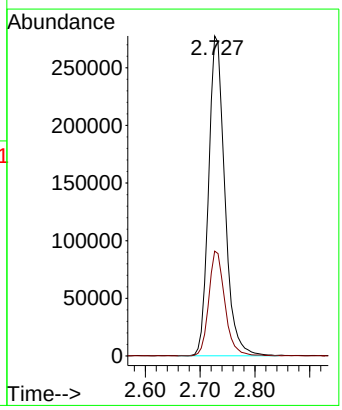


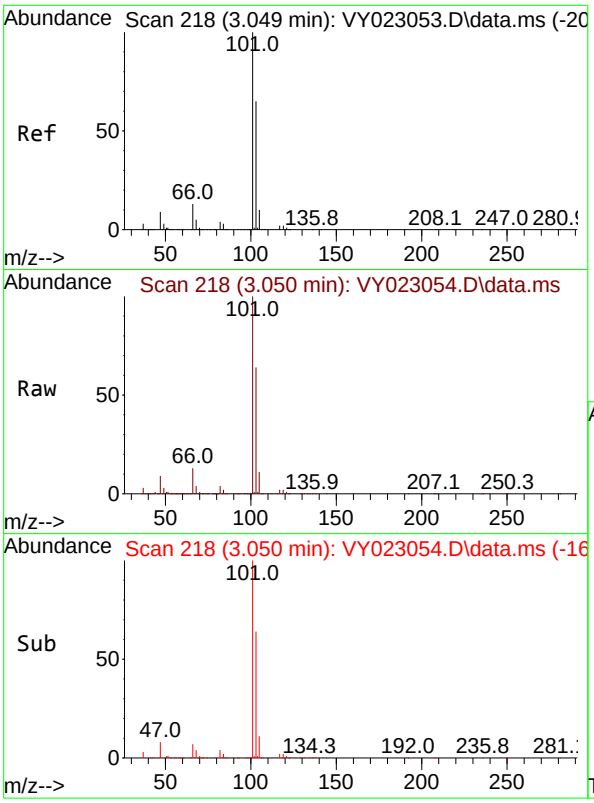


#6
Chloroethane
Concen: 93.563 ug/l
RT: 2.727 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 64 Resp: 567515

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.8	38.6



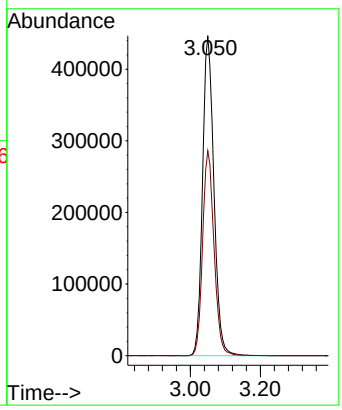


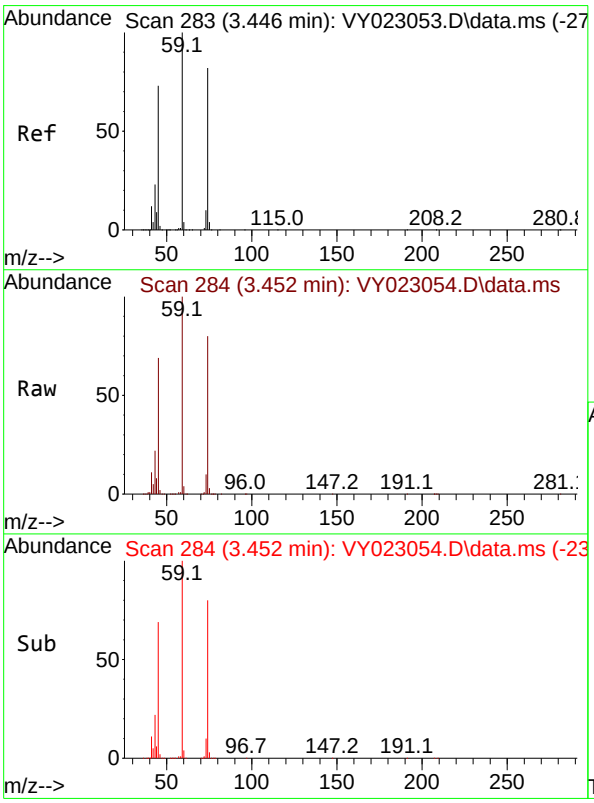
#7
Trichlorofluoromethane
Concen: 90.617 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 1005284

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.9	77.9

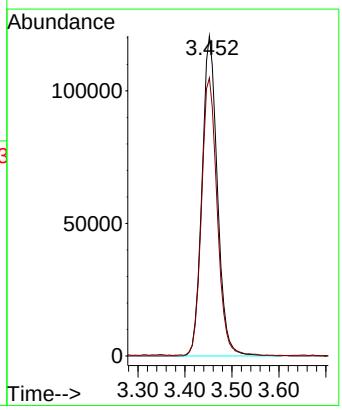


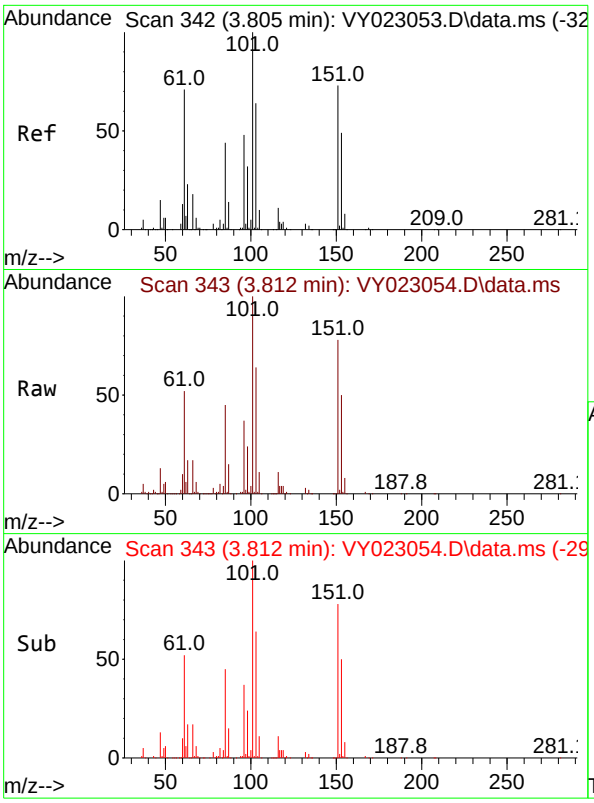


#8
Diethyl Ether
Concen: 93.150 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 74 Resp: 273400

Ion	Ratio	Lower	Upper
74	100		
45	88.2	44.4	133.2



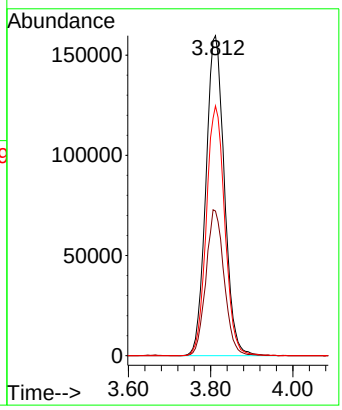


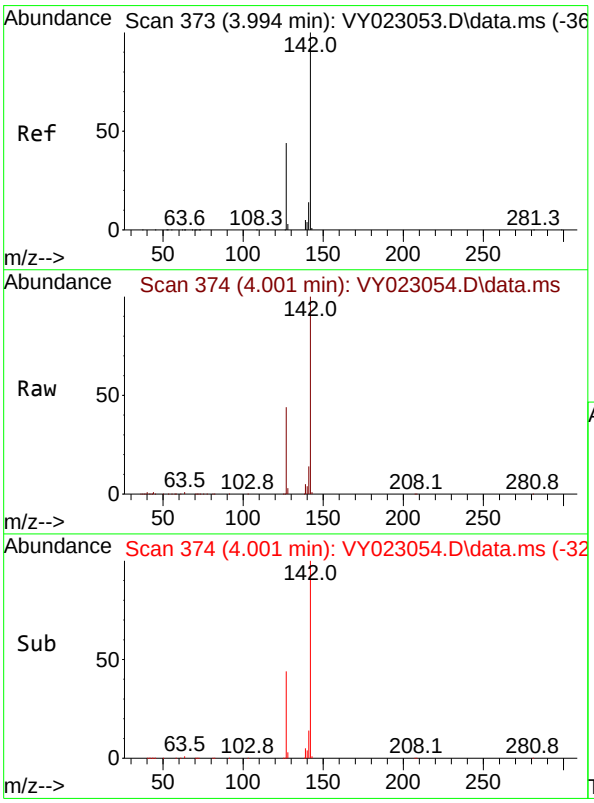
#9
1,1,2-Trichlorotrifluoroethane
Concen: 90.882 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 497408

Ion	Ratio	Lower	Upper
101	100		
85	45.0	36.3	54.5
151	77.9	61.5	92.3

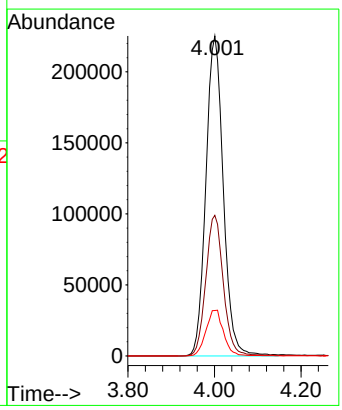


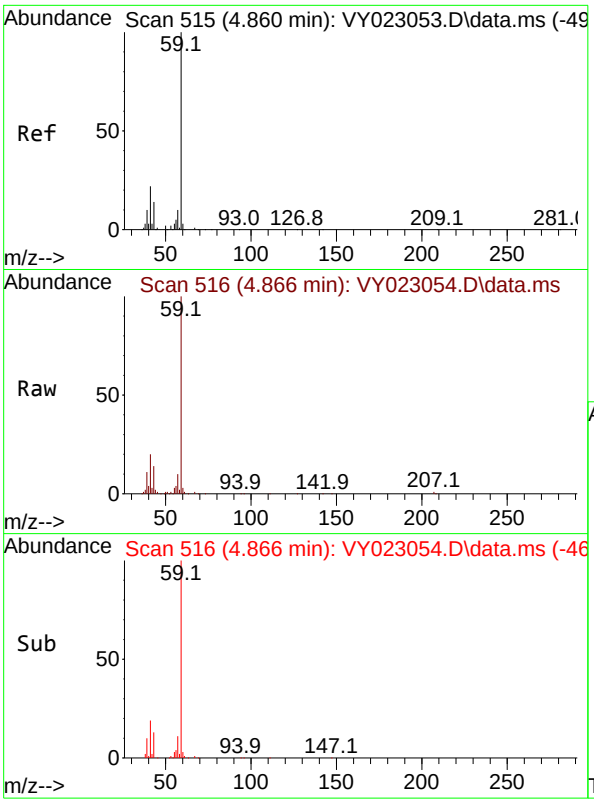


#10
Methyl Iodide
Concen: 106.635 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:142 Resp: 629775

Ion	Ratio	Lower	Upper
142	100		
127	44.2	34.9	52.3
141	14.4	11.3	16.9



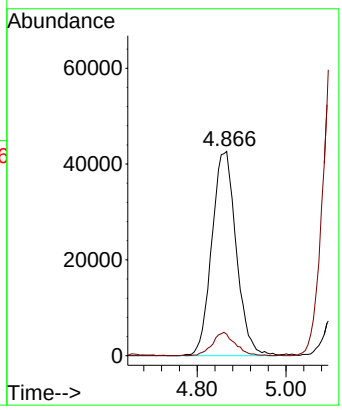


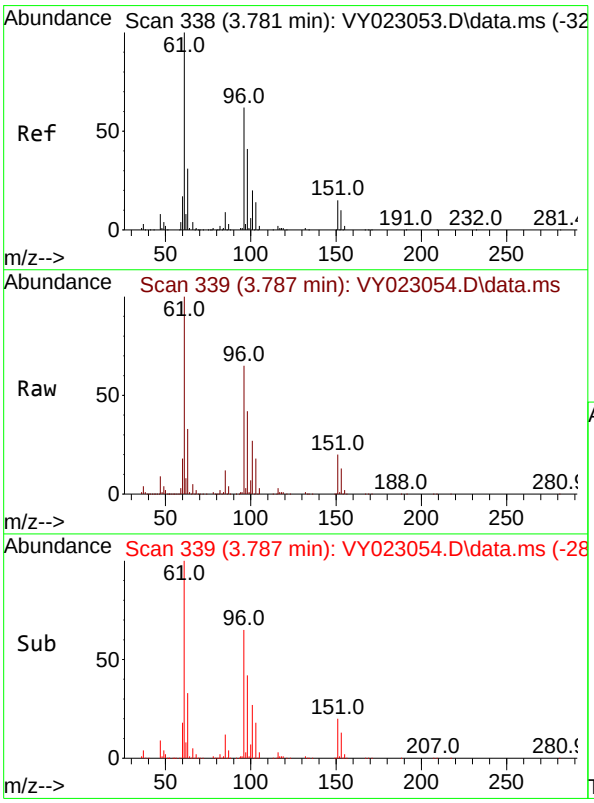
#11
Tert butyl alcohol
Concen: 445.387 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 162373

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	13.0

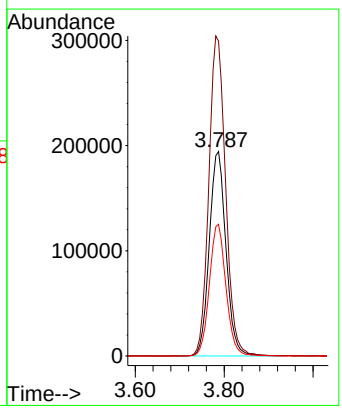


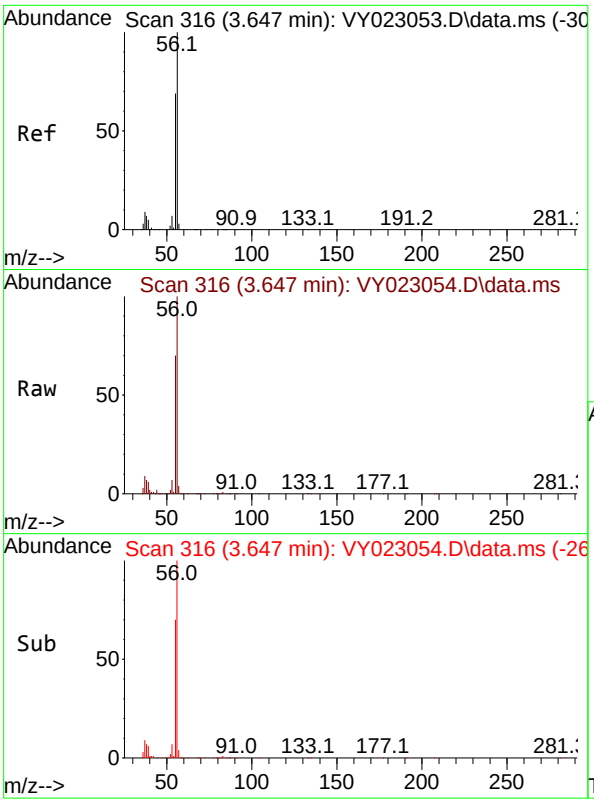


#12
1,1-Dichloroethene
Concen: 94.229 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 506919

Ion	Ratio	Lower	Upper
96	100		
61	154.0	129.4	194.2
98	64.4	52.8	79.2



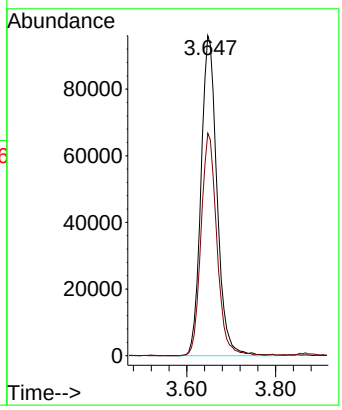


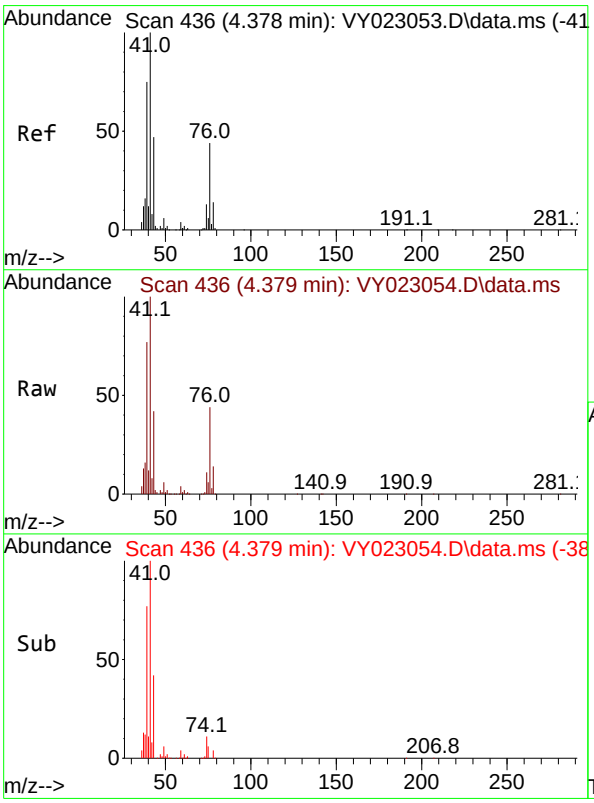
#13
Acrolein
Concen: 450.599 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 240580

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.2	82.8

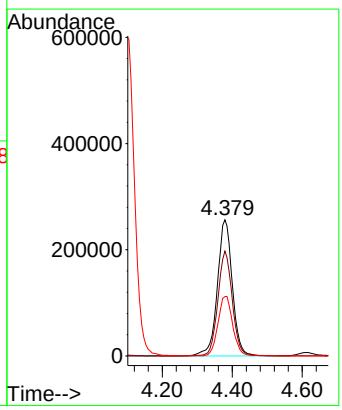


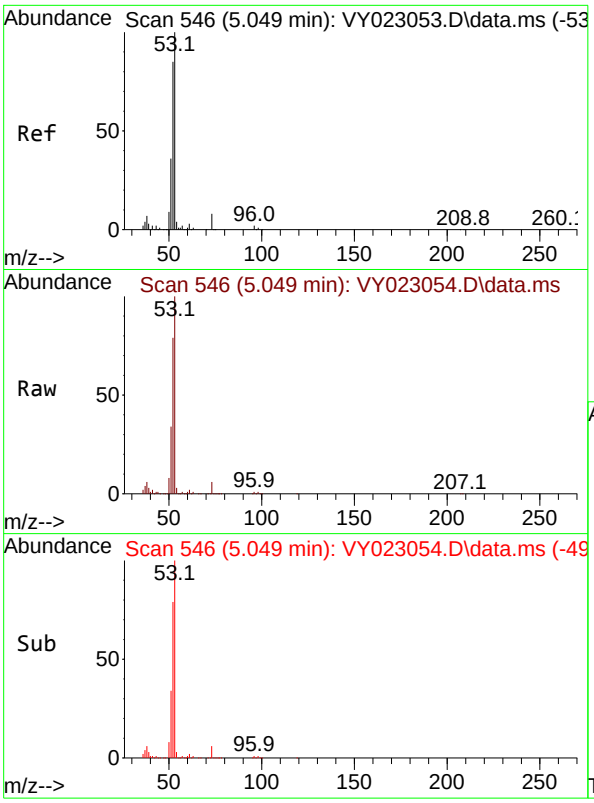


#14
Allyl chloride
Concen: 96.000 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 759925

Ion	Ratio	Lower	Upper
41	100		
39	74.3	59.8	89.6
76	43.0	33.7	50.5



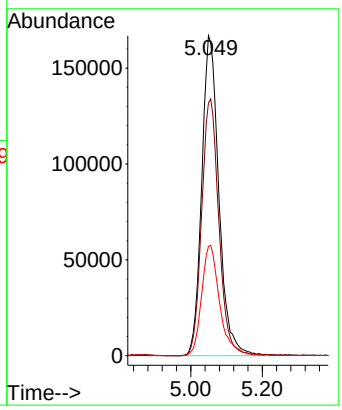


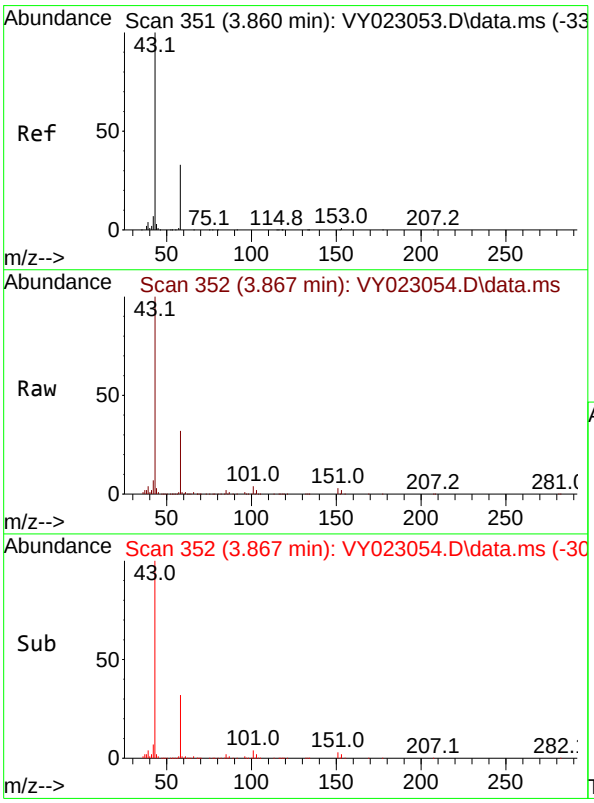
#15
Acrylonitrile
Concen: 465.802 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 555815

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.3	97.9
51	36.3	29.5	44.3

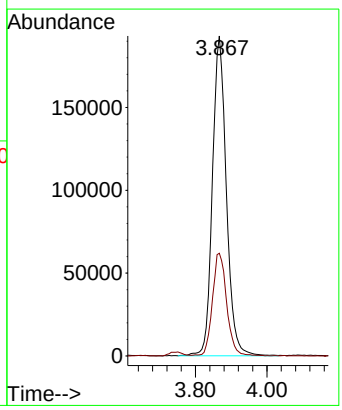


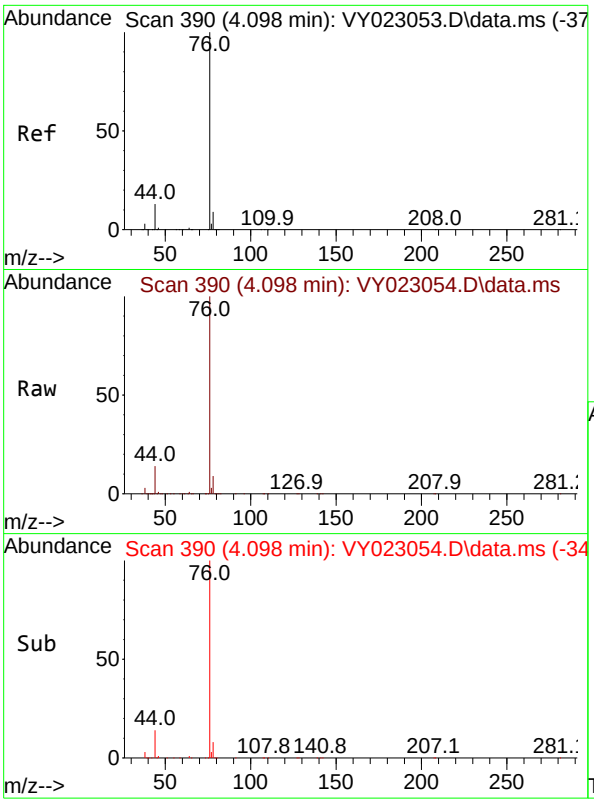


#16
Acetone
Concen: 453.007 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 522178

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7



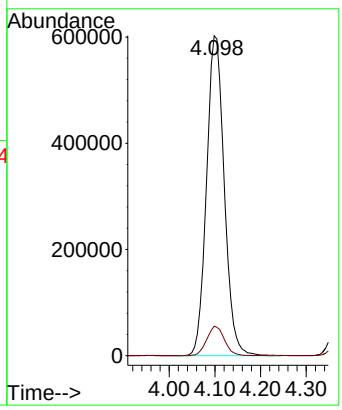


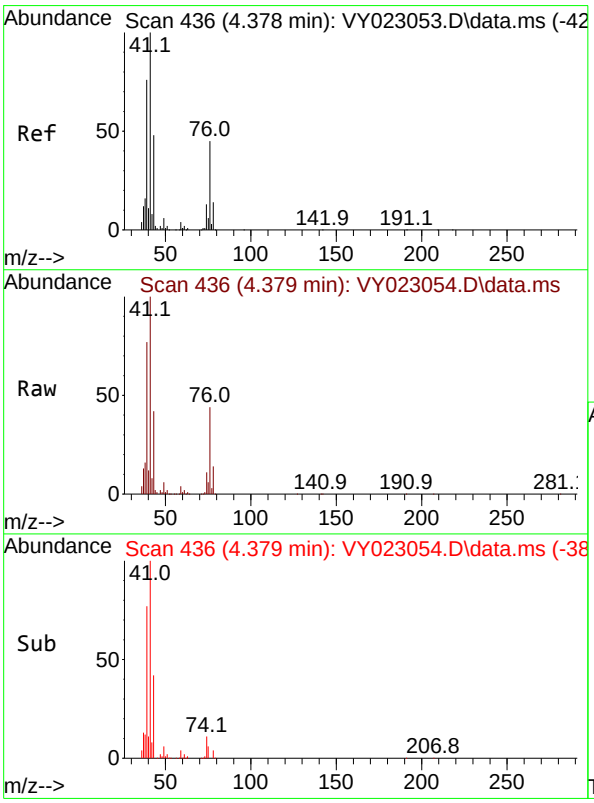
#17
Carbon Disulfide
Concen: 92.494 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 1622451

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

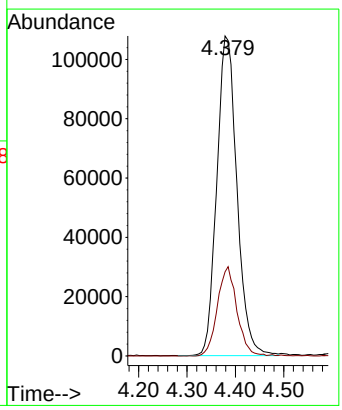


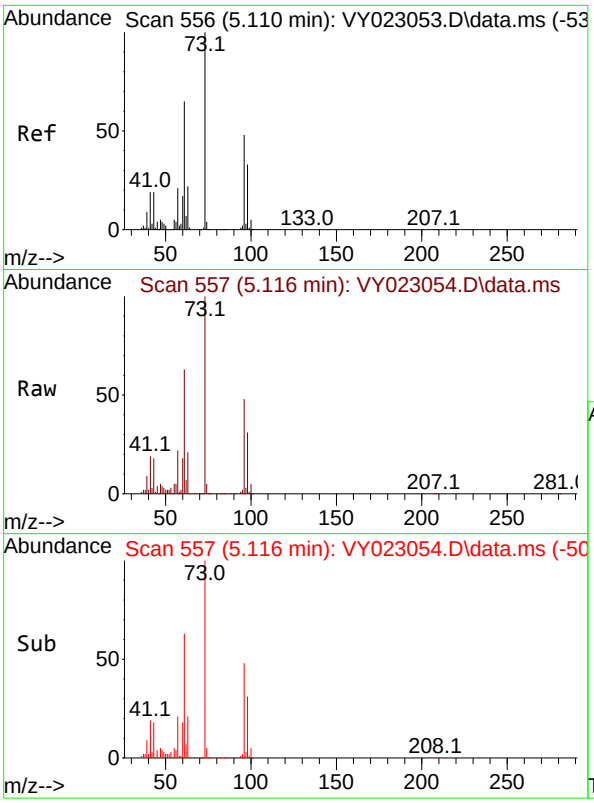


#18
Methyl Acetate
Concen: 90.993 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 312127

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8



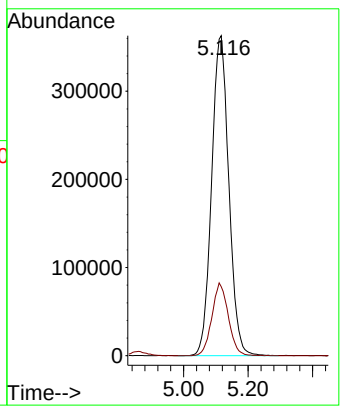


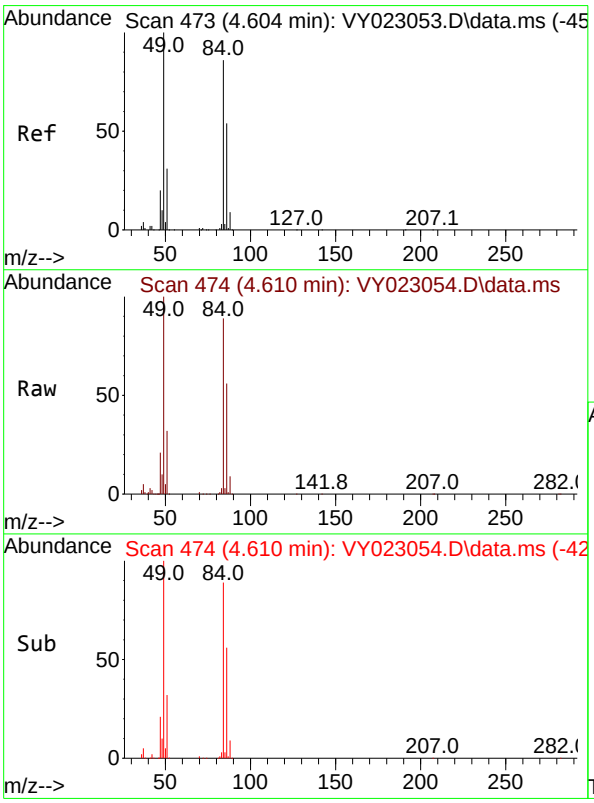
#19
Methyl tert-butyl Ether
Concen: 96.284 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 1342237

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

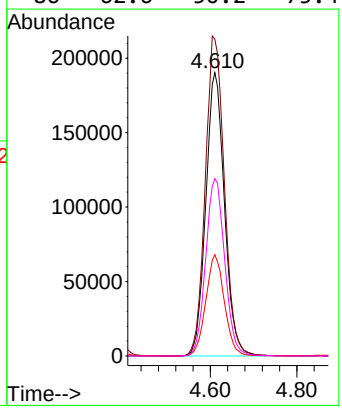


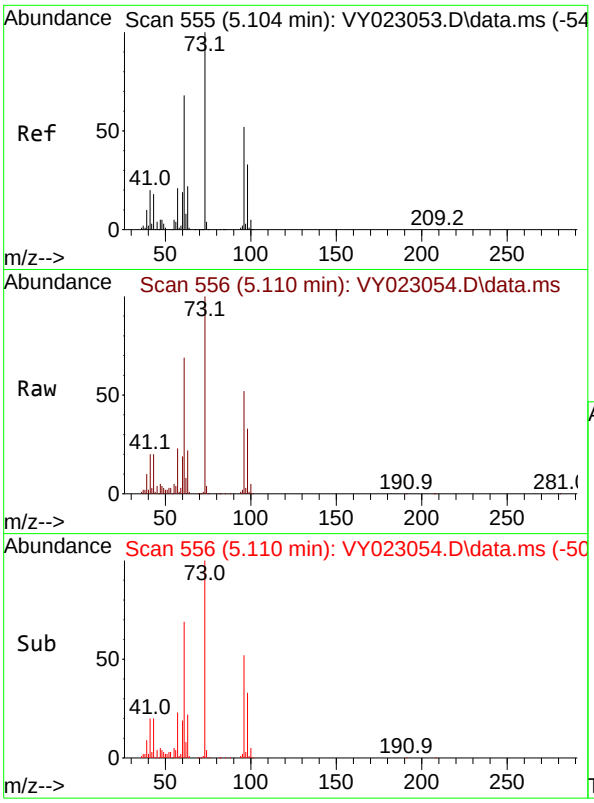


#20
Methylene Chloride
Concen: 97.847 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 84 Resp: 570465

Ion	Ratio	Lower	Upper
84	100		
49	111.7	93.0	139.6
51	35.7	29.0	43.4
86	62.6	50.2	75.4



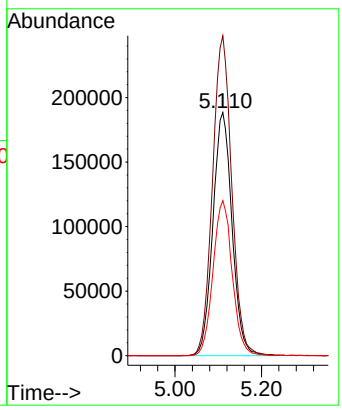


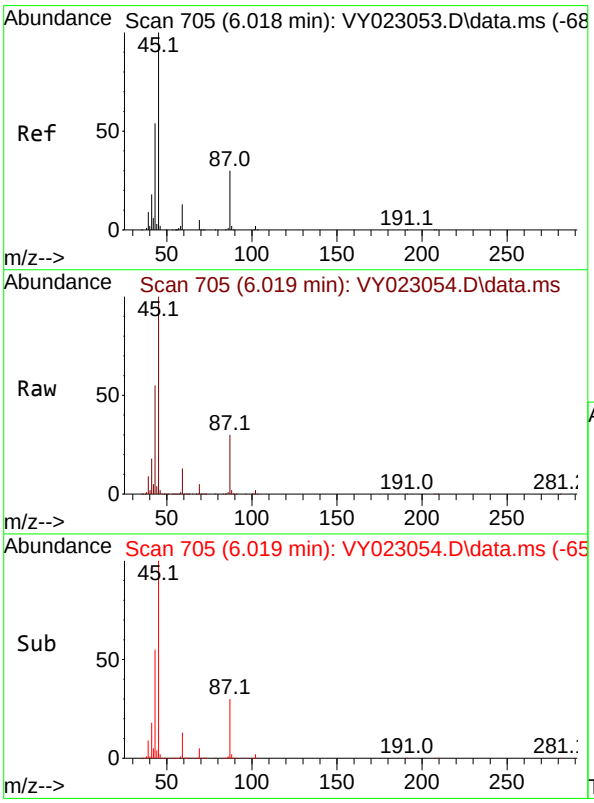
#21
trans-1,2-Dichloroethene
Concen: 96.098 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 580972

Ion	Ratio	Lower	Upper
96	100		
61	131.5	104.8	157.2
98	63.8	50.1	75.1

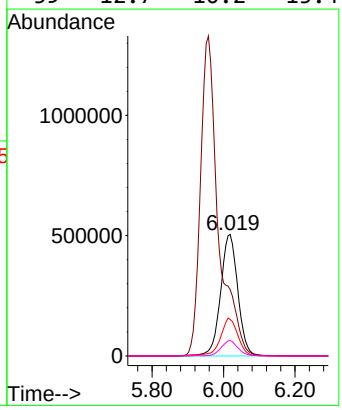


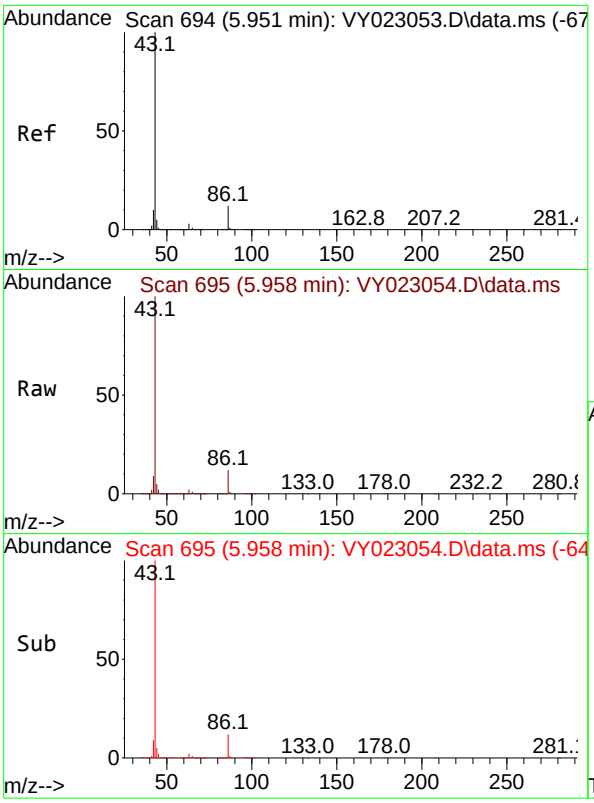


#22
Diisopropyl ether
Concen: 98.033 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 45 Resp: 1686285

Ion	Ratio	Lower	Upper
45	100		
43	54.5	43.4	65.0
87	30.0	24.4	36.6
59	12.7	10.2	15.4



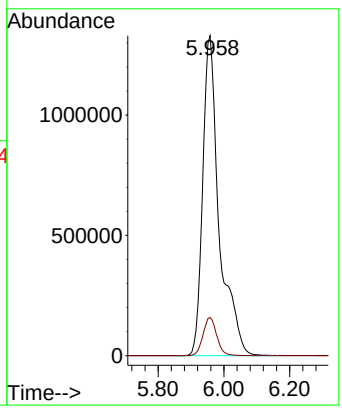


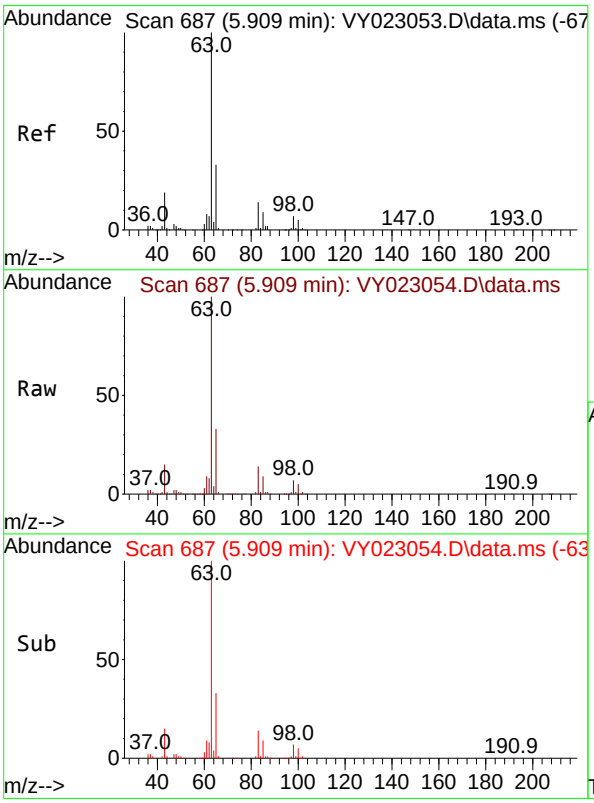
#23
Vinyl Acetate
Concen: 487.023 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 4632278

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

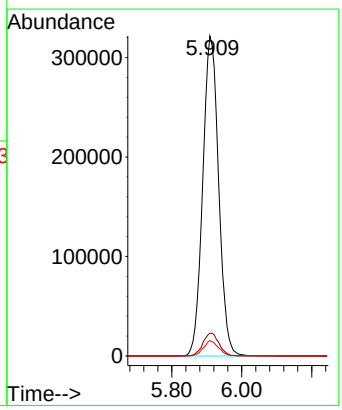


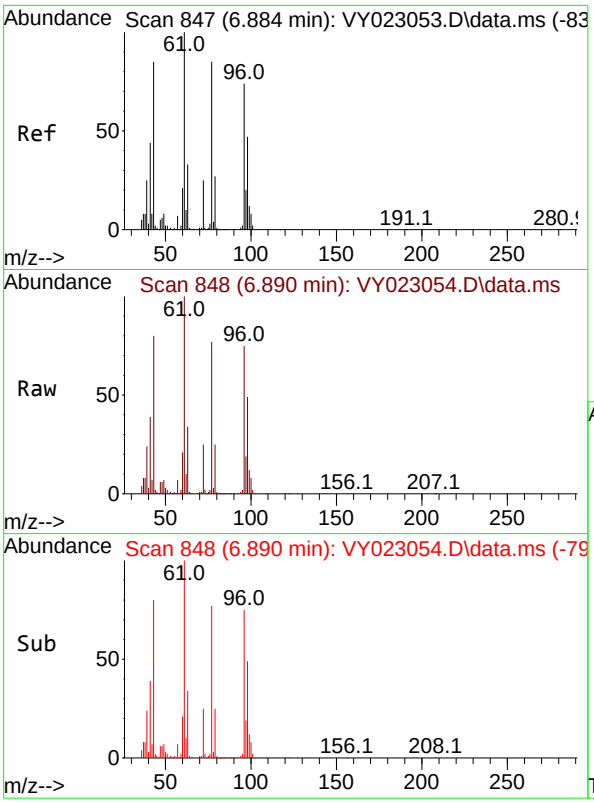


#24
1,1-Dichloroethane
Concen: 96.306 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1012815

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.8	2.4	7.1



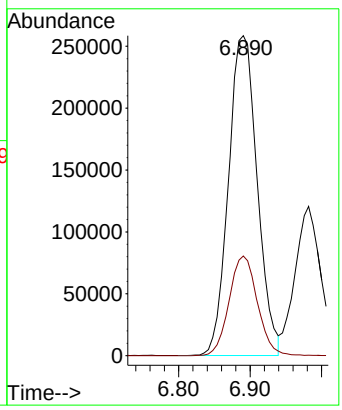


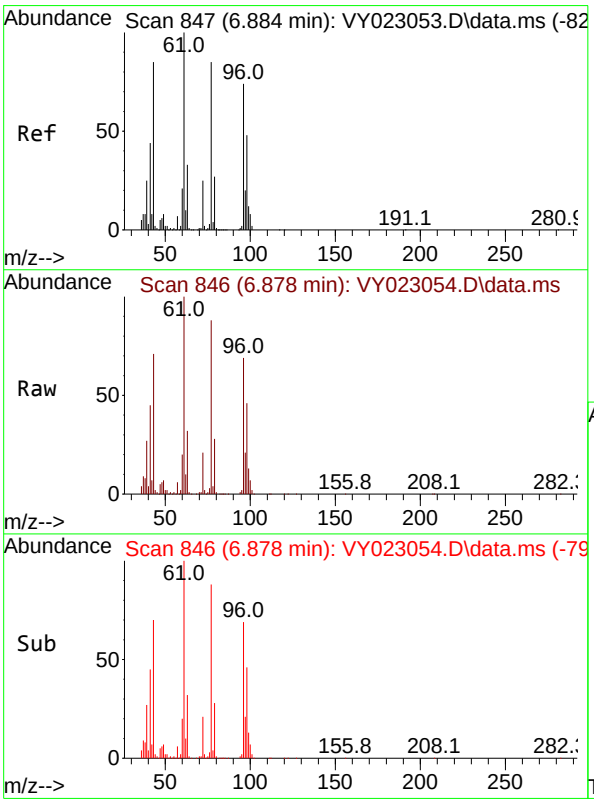
#25
2-Butanone
Concen: 460.899 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 722555

Ion	Ratio	Lower	Upper
43	100		
72	31.2	23.5	35.3

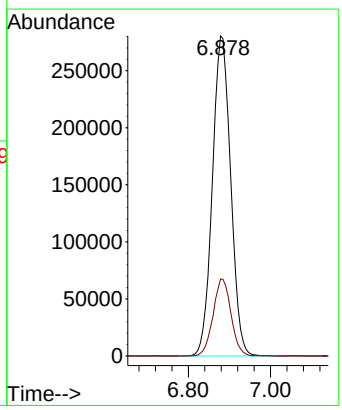


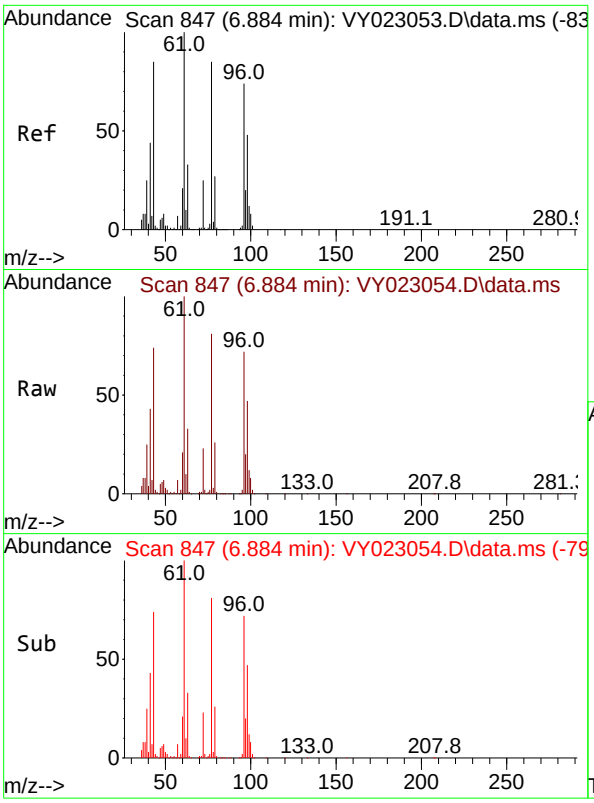


#26
2,2-Dichloropropane
Concen: 95.497 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 77 Resp: 866598

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.8



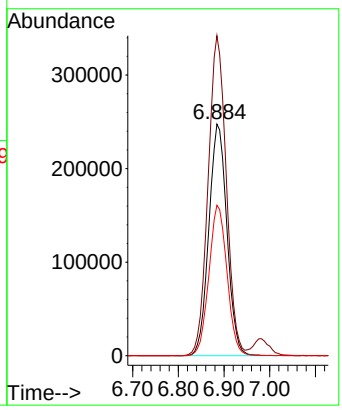


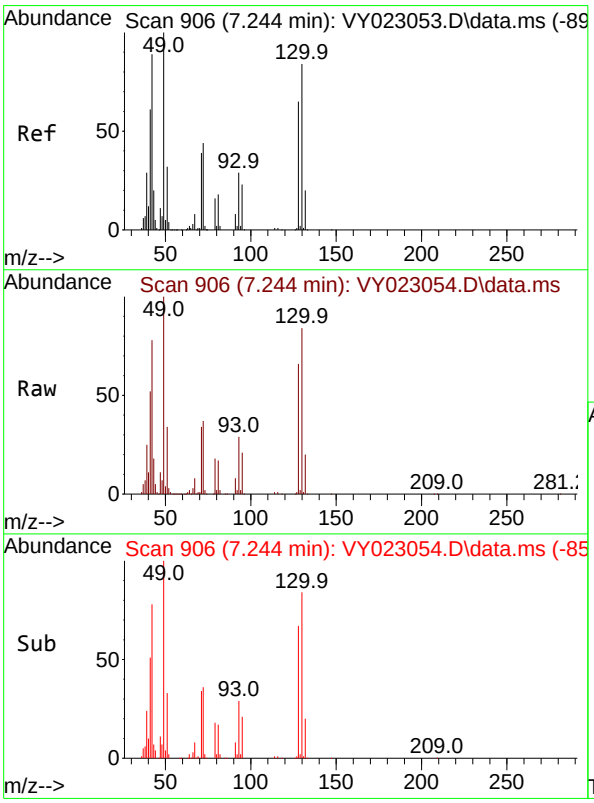
#27
cis-1,2-Dichloroethene
Concen: 97.472 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 681242

Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	278.6
98	65.0	0.0	130.4

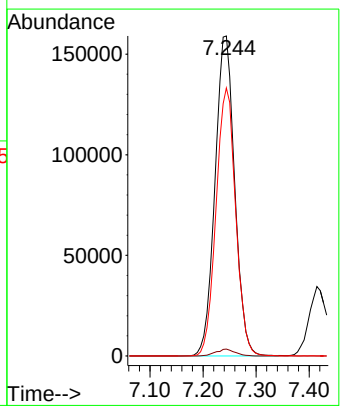


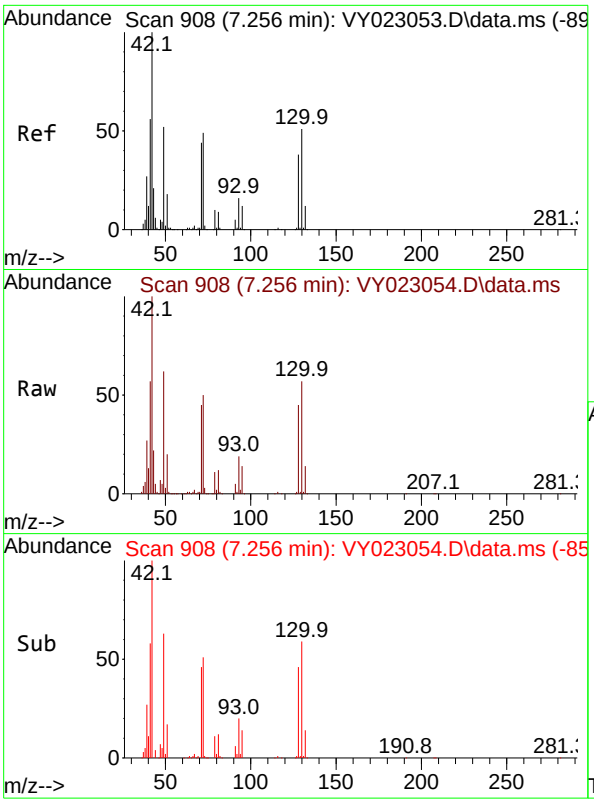


#28
Bromochloromethane
Concen: 98.188 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 49 Resp: 409677

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.4	66.4	99.6



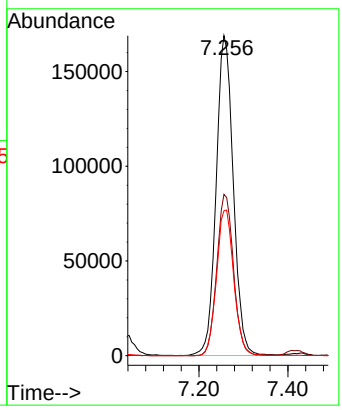


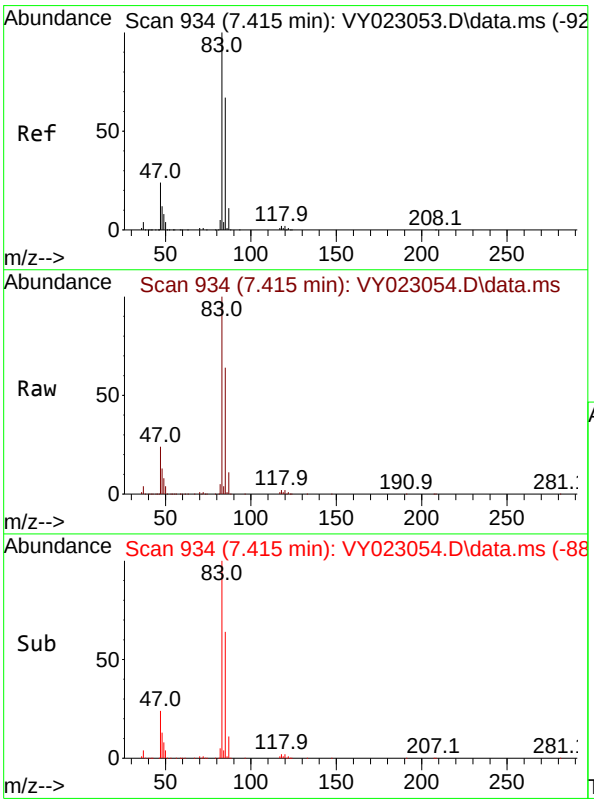
#29
Tetrahydrofuran
Concen: 464.370 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 451254

Ion	Ratio	Lower	Upper
42	100		
72	49.4	39.4	59.2
71	45.8	36.5	54.7

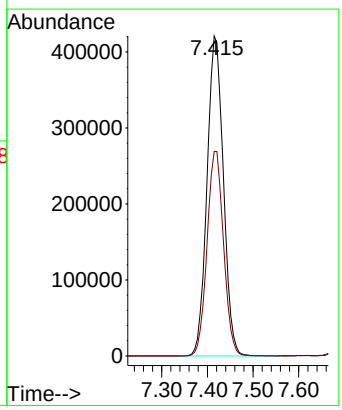


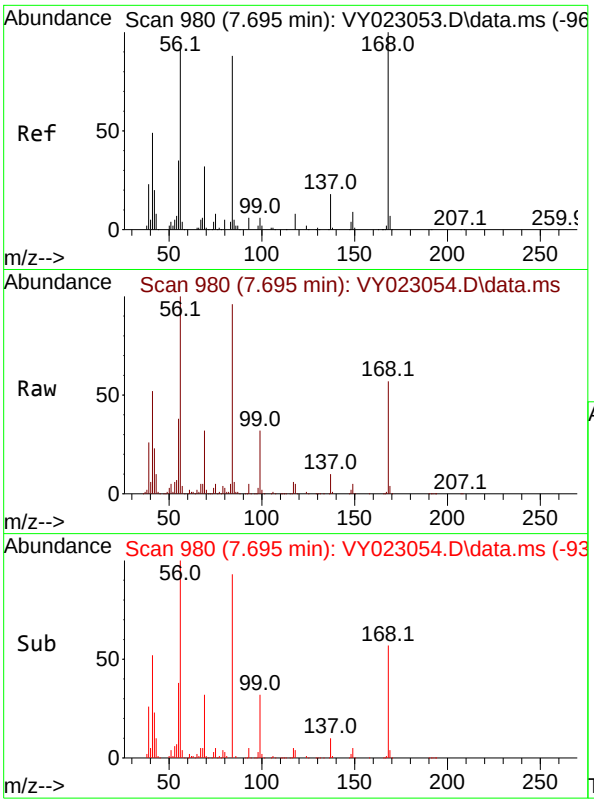


#30
Chloroform
Concen: 96.383 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 1045381

Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.8	80.8



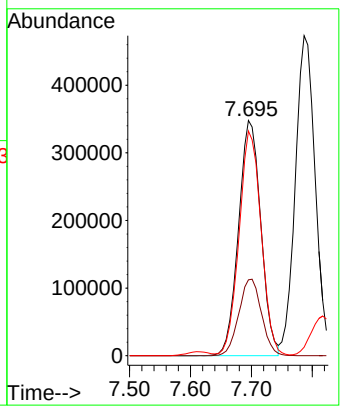


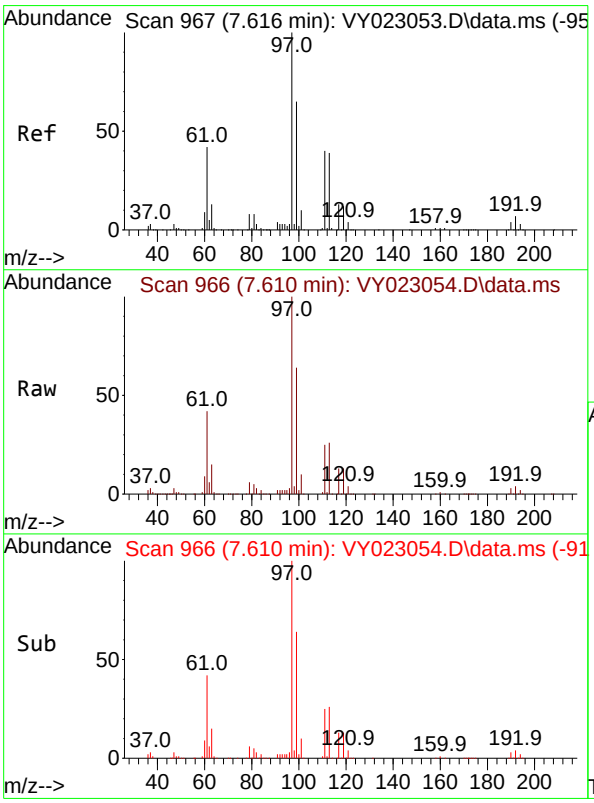
#31
Cyclohexane
Concen: 89.271 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 884707

Ion	Ratio	Lower	Upper
56	100		
69	32.3	28.2	42.2
84	95.2	76.6	114.8

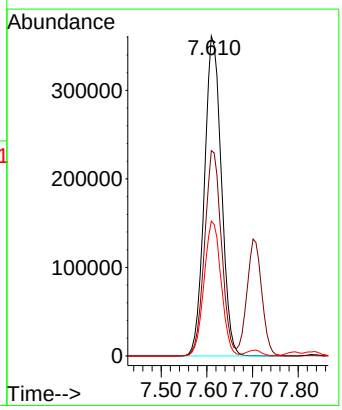


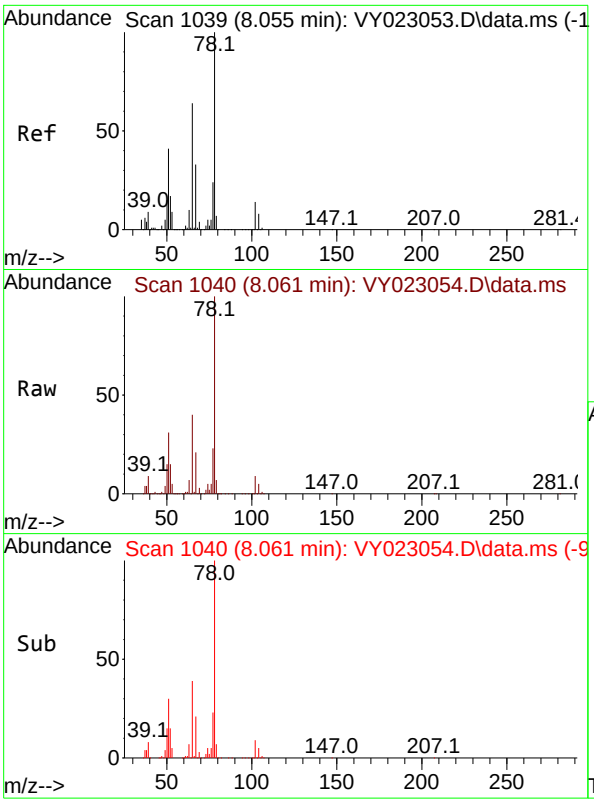


#32
1,1,1-Trichloroethane
Concen: 96.620 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 97 Resp: 929858

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	42.5	34.2	51.2



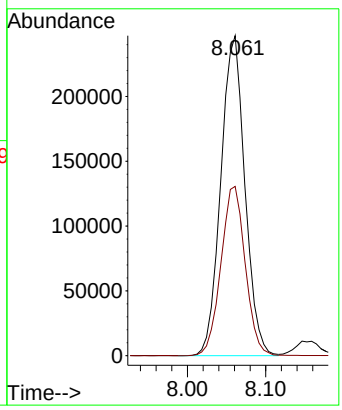


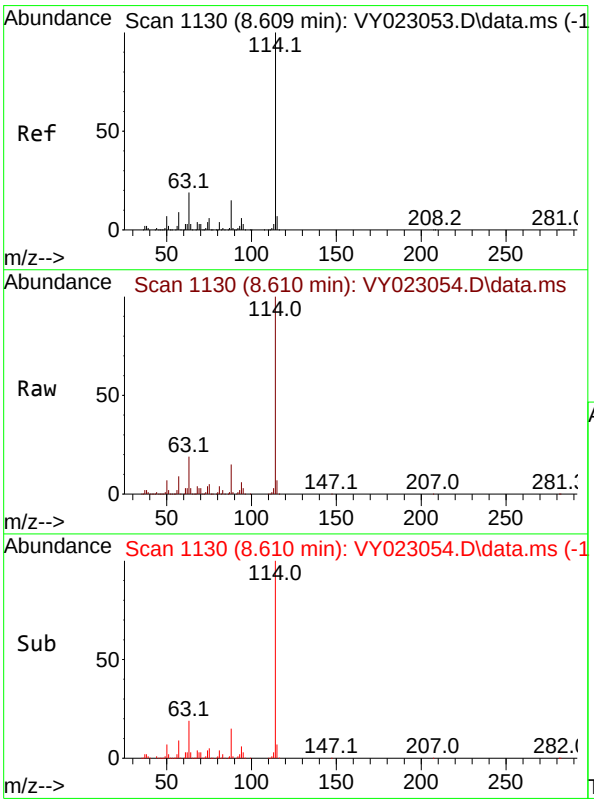
#33
1,2-Dichloroethane-d4
Concen: 99.115 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 527356

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	106.8

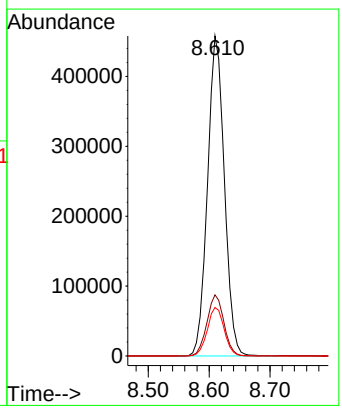


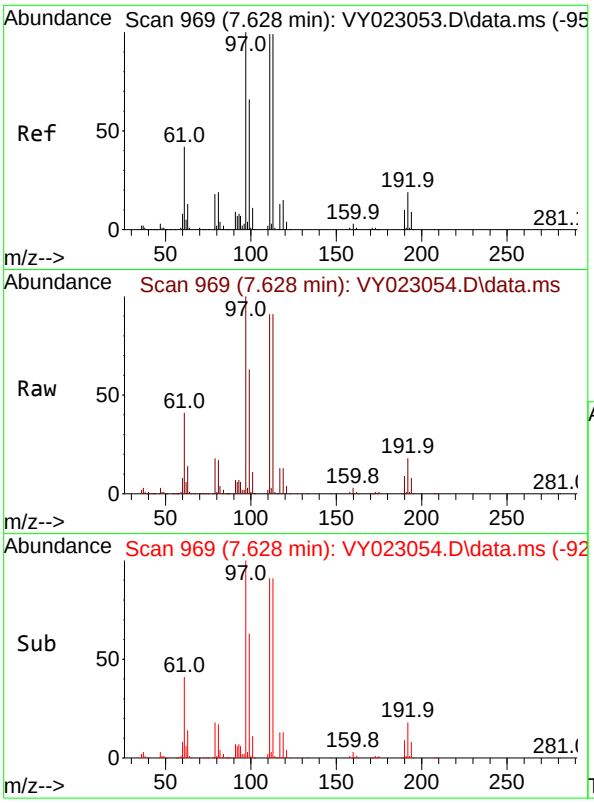


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:114 Resp: 880463

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.4
88	15.2	0.0	30.0



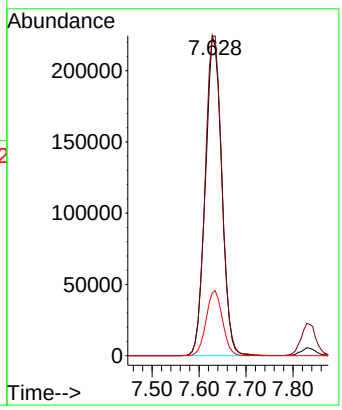


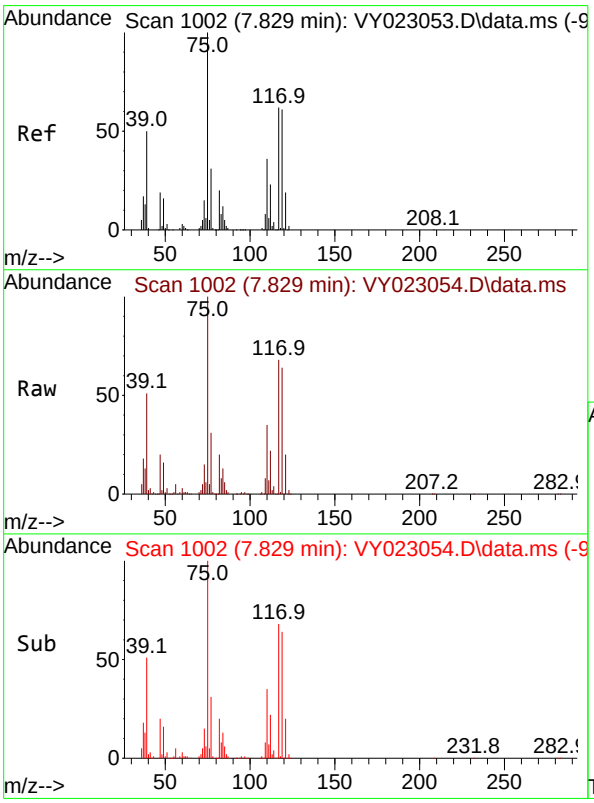
#35
Dibromofluoromethane
Concen: 102.518 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 540106

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	20.4	16.2	24.4

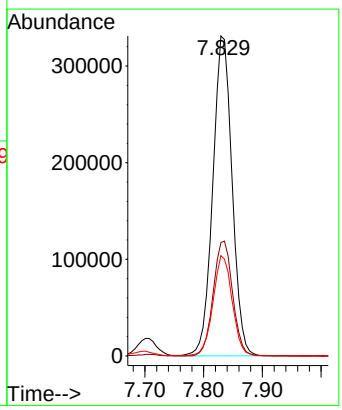


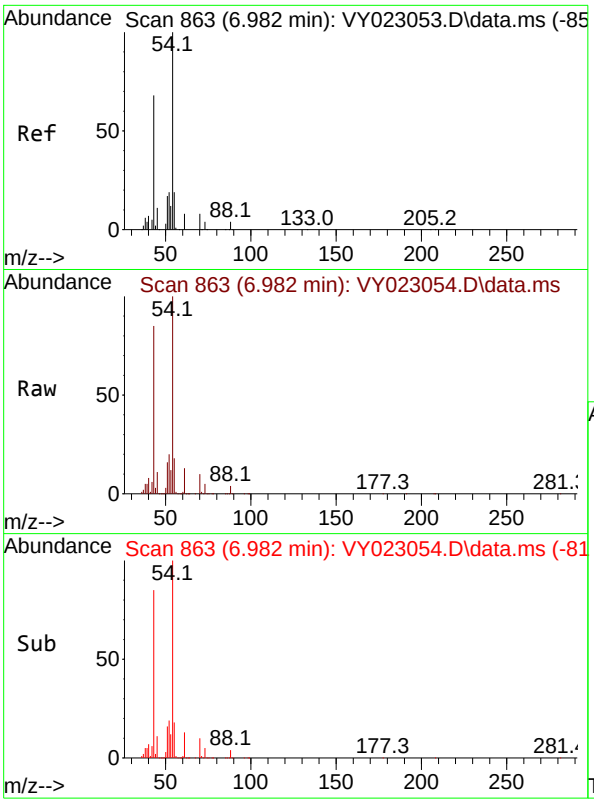


#36
1,1-Dichloropropene
Concen: 96.443 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 755114

Ion	Ratio	Lower	Upper
75	100		
110	36.1	18.1	54.4
77	31.3	24.6	37.0



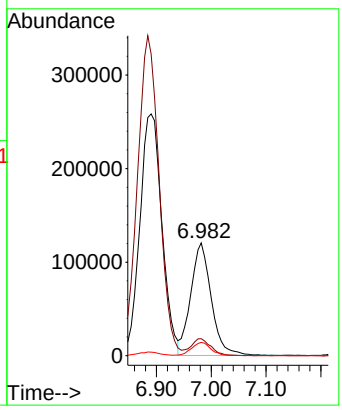


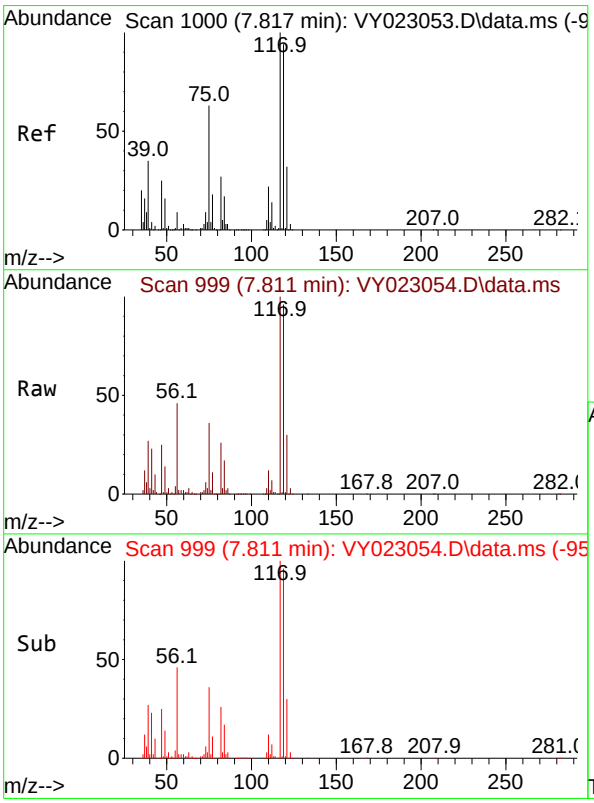
#37
Ethyl Acetate
Concen: 95.302 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 313447

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.9	17.9
70	11.2	8.8	13.2

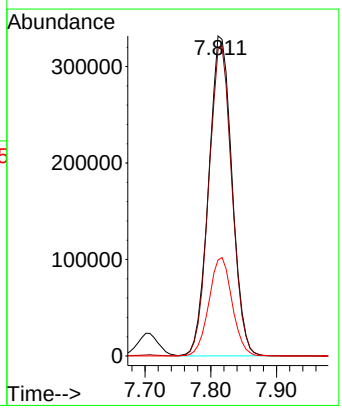


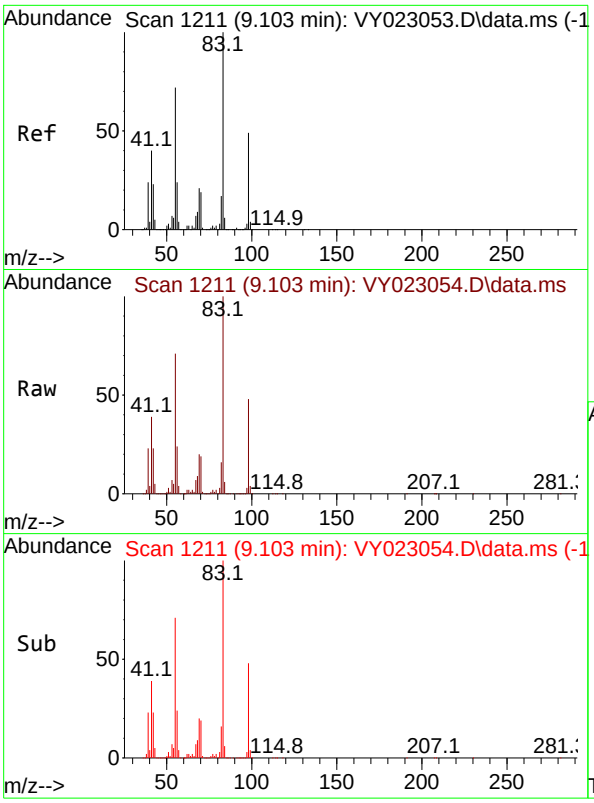


#38
Carbon Tetrachloride
Concen: 96.419 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 819941

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.6	113.4
121	30.0	25.8	38.8



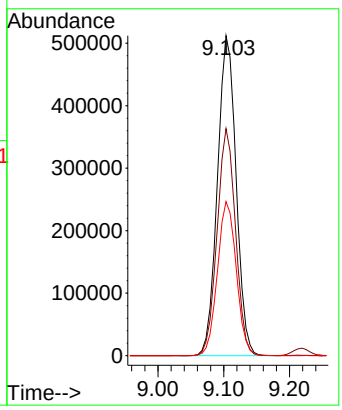


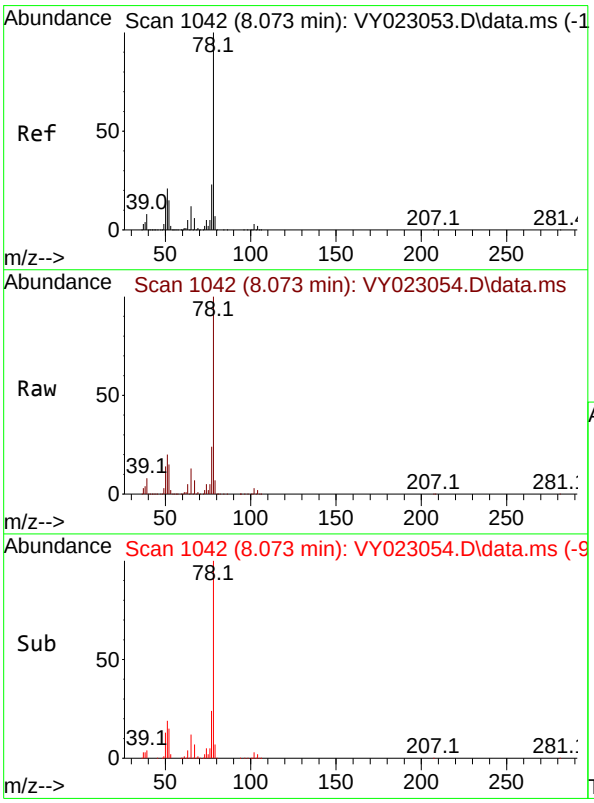
#39
Methylcyclohexane
Concen: 98.146 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1011944

Ion	Ratio	Lower	Upper
83	100		
55	70.9	57.6	86.4
98	48.2	39.2	58.8

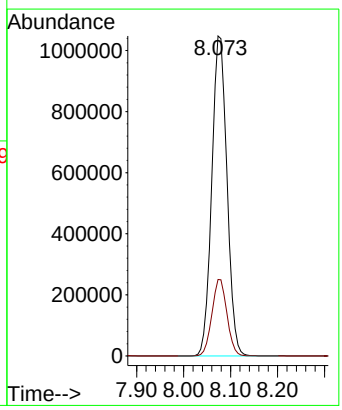


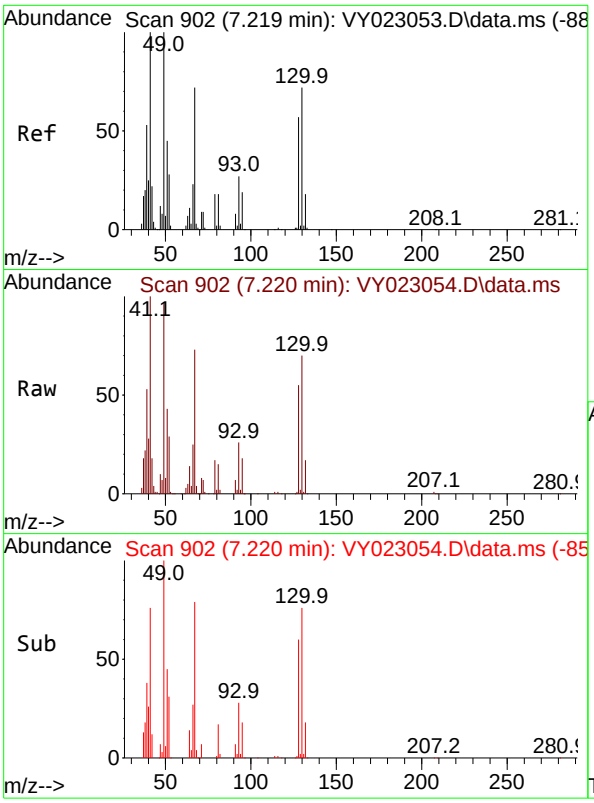


#40
Benzene
Concen: 97.324 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 78 Resp: 2348617

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0



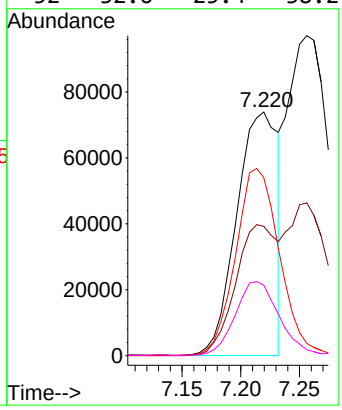


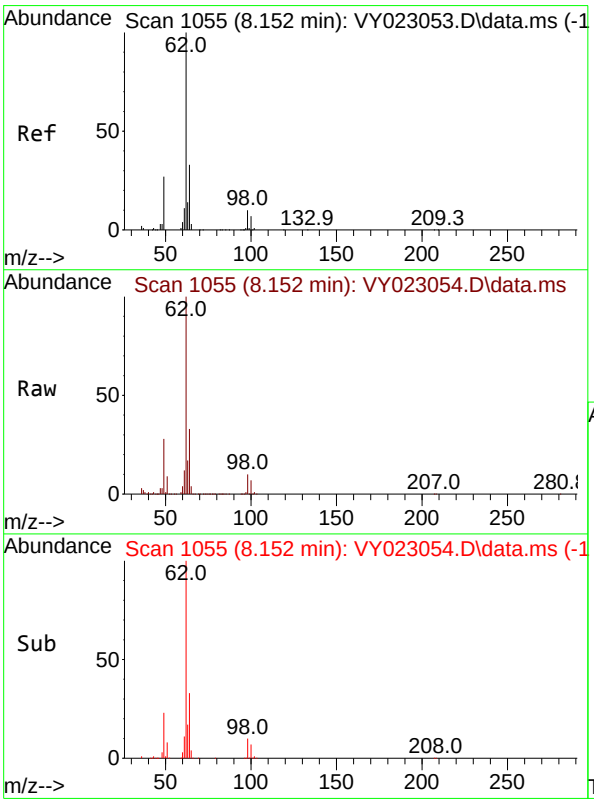
#41
Methacrylonitrile
Concen: 94.973 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 180468

Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.4	65.2
67	82.3	63.6	95.4
52	32.6	25.4	38.2

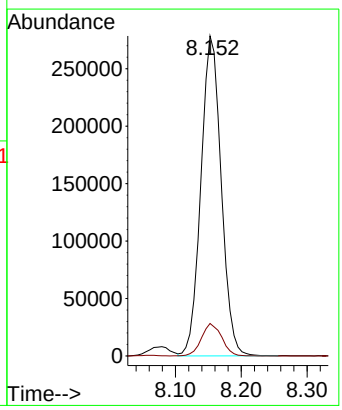


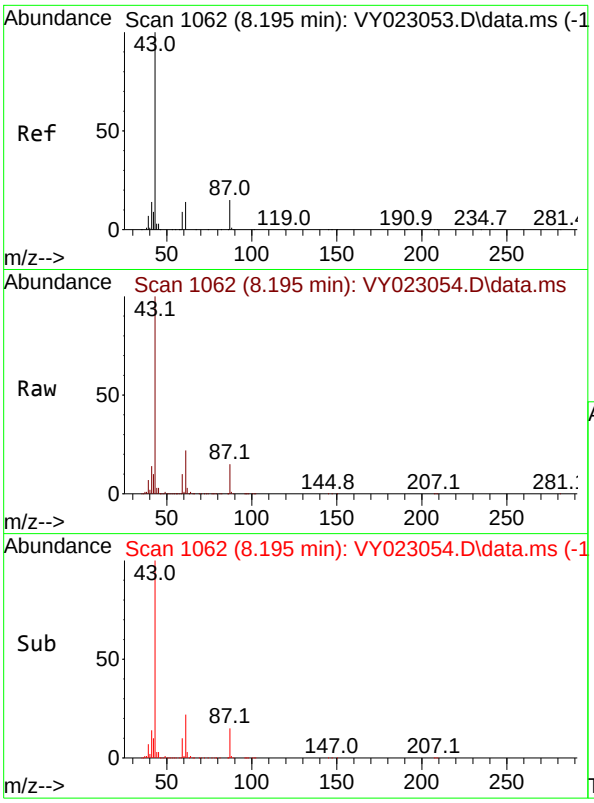


#42
1,2-Dichloroethane
Concen: 95.155 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 597215

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



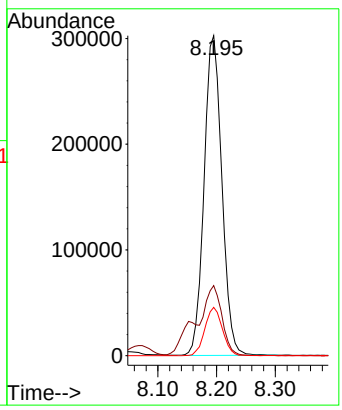


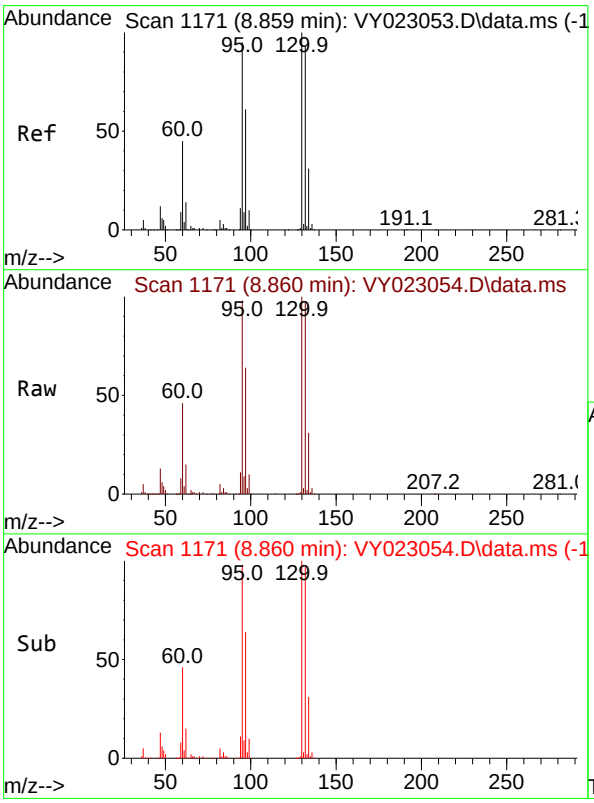
#43
Isopropyl Acetate
Concen: 95.780 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 636710

Ion	Ratio	Lower	Upper
43	100		
61	21.0	16.4	24.6
87	14.9	11.8	17.6

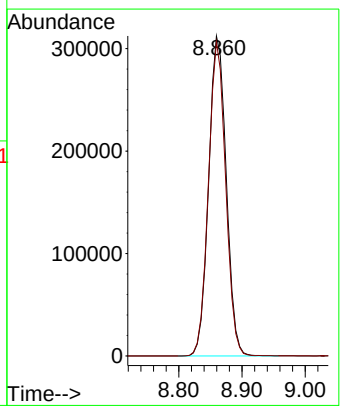


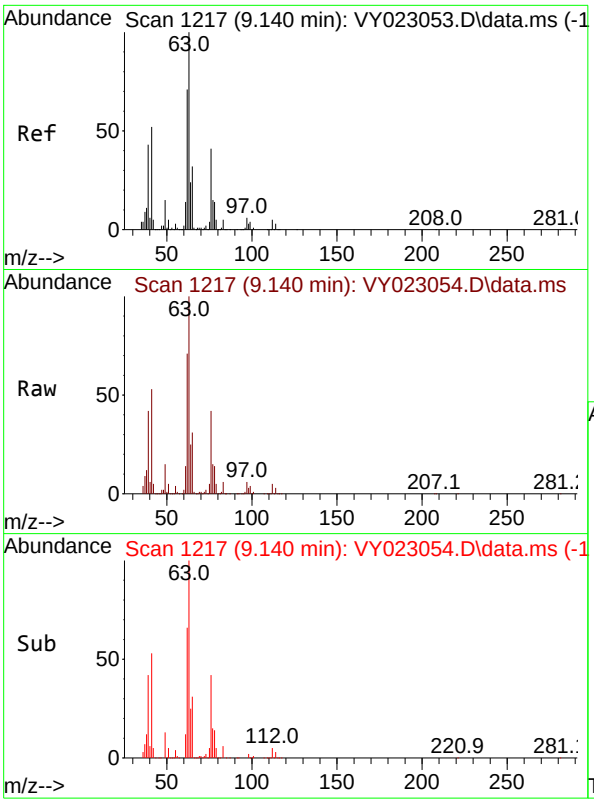


#44
Trichloroethene
Concen: 96.584 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:130 Resp: 602322

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	190.2



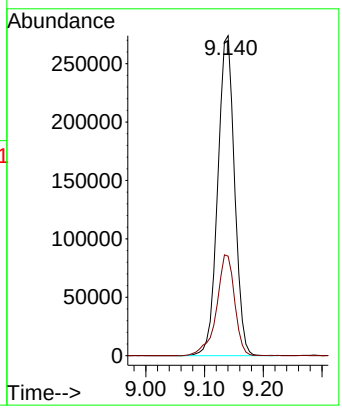


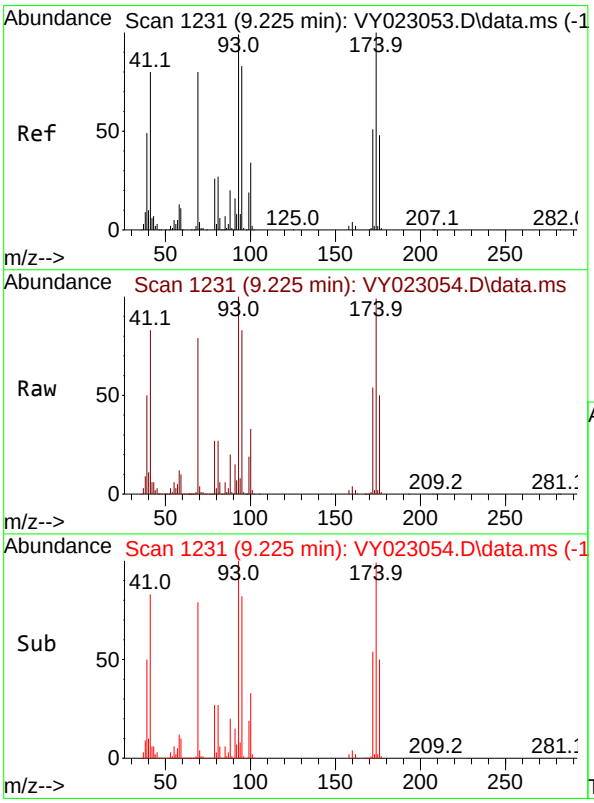
#45
1,2-Dichloropropane
Concen: 97.899 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 543589

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.3	37.9

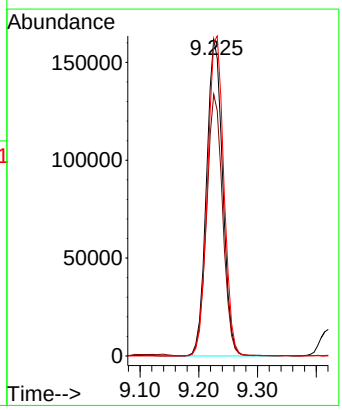


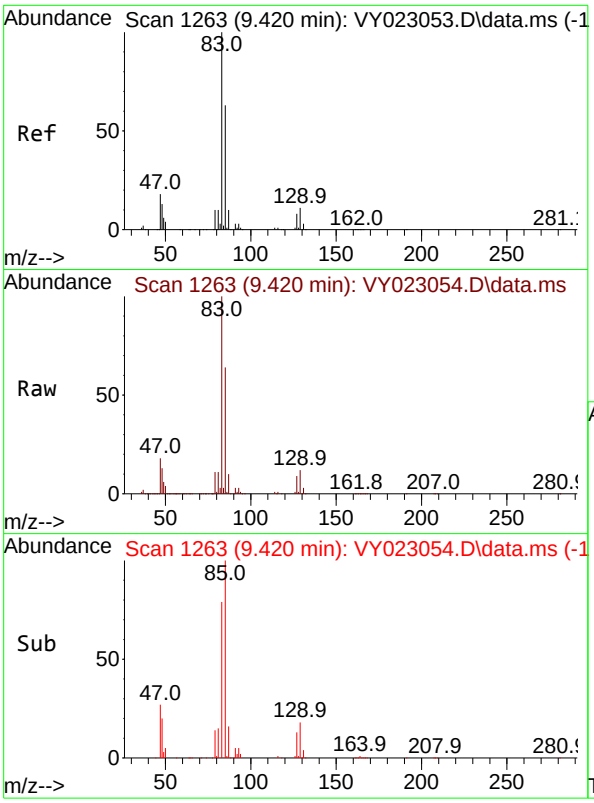


#46
Dibromomethane
Concen: 97.052 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 93 Resp: 309302

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.5	99.7
174	101.9	81.8	122.8



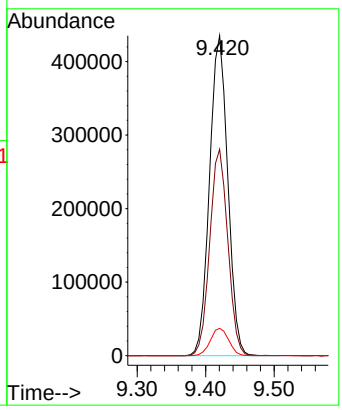


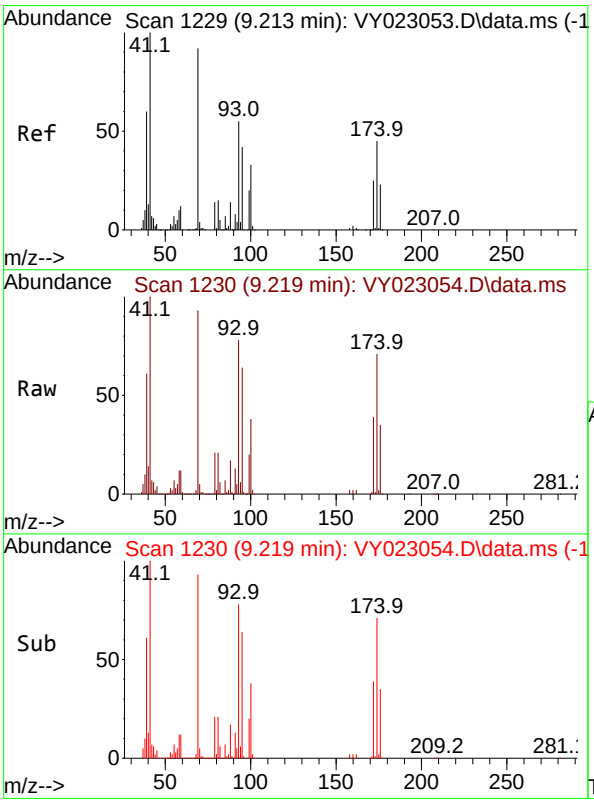
#47
Bromodichloromethane
Concen: 97.864 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 802532

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.2	75.4
127	8.5	6.6	10.0

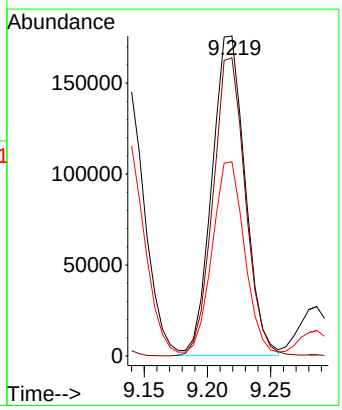


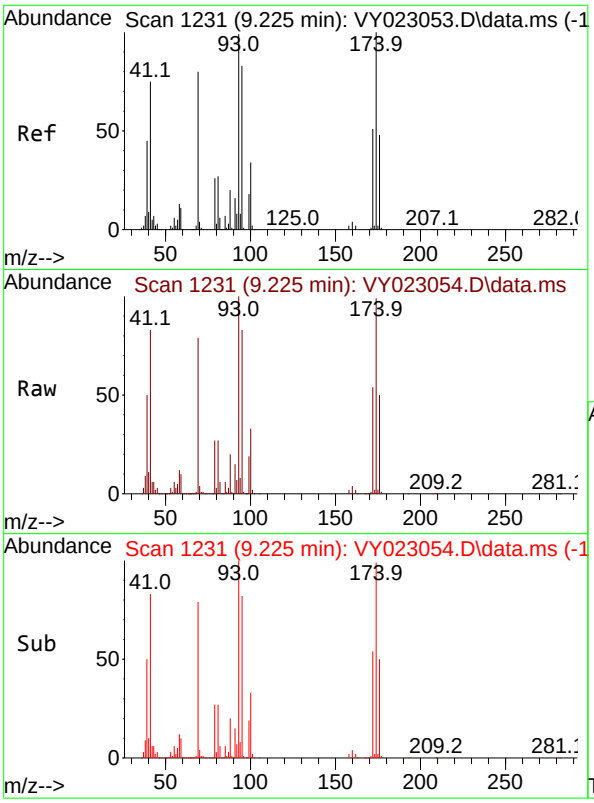


#48
Methyl methacrylate
Concen: 100.567 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 319906

Ion	Ratio	Lower	Upper
41	100		
69	91.4	73.2	109.8
39	57.6	47.0	70.4



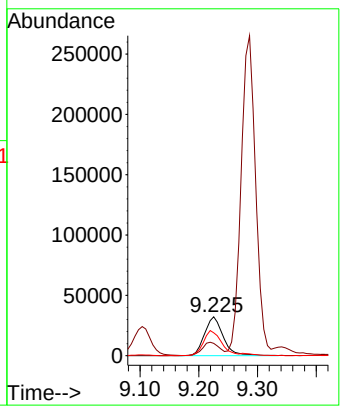


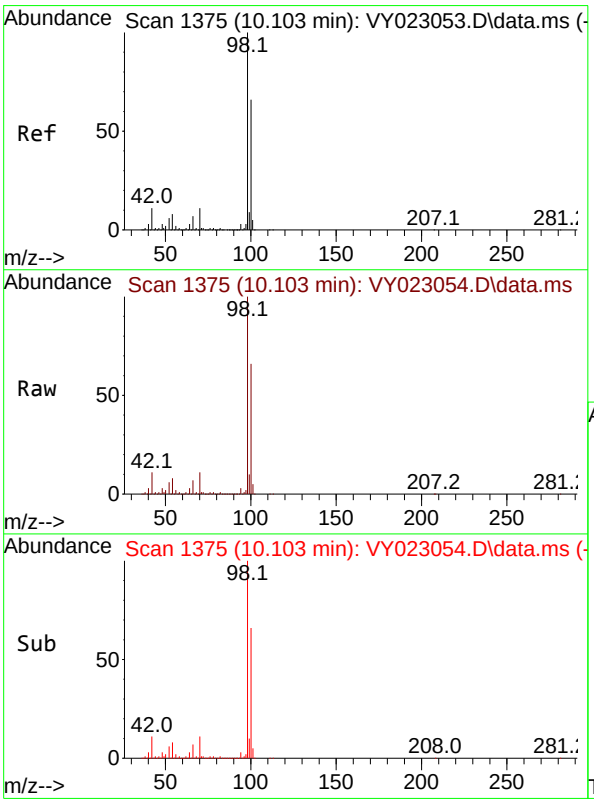
#49
1,4-Dioxane
Concen: 1908.039 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 71300

Ion	Ratio	Lower	Upper
88	100		
43	30.6	24.3	36.5
58	62.4	55.4	83.0

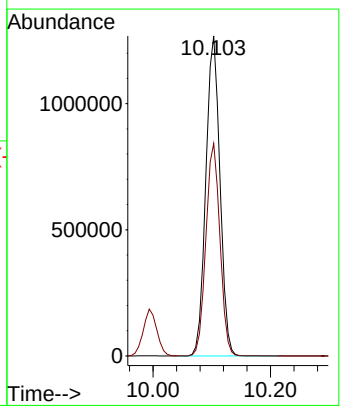


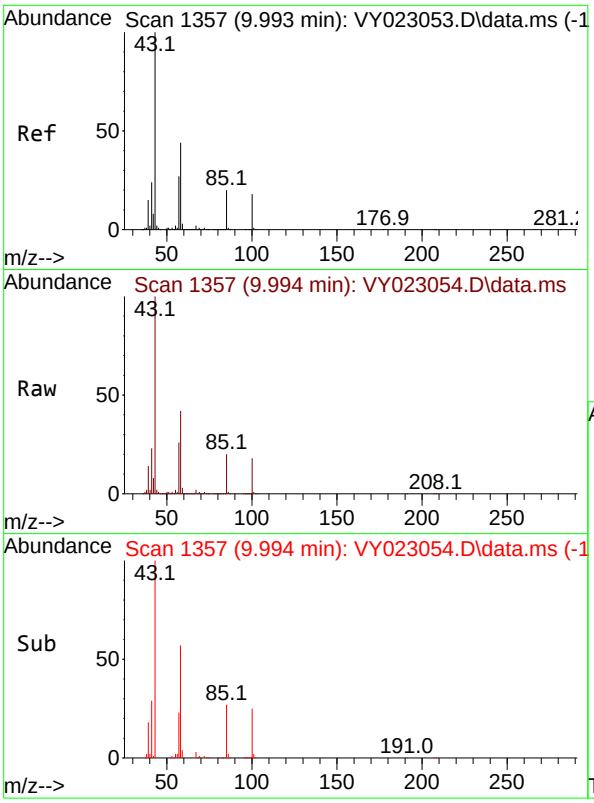


#50
Toluene-d8
Concen: 102.832 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 98 Resp: 2116445

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.3	78.5



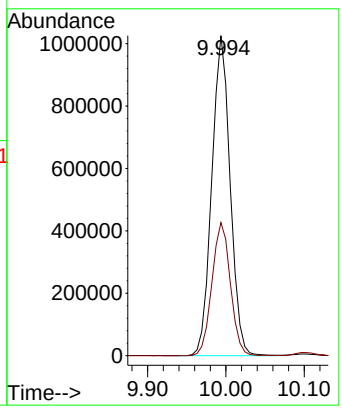


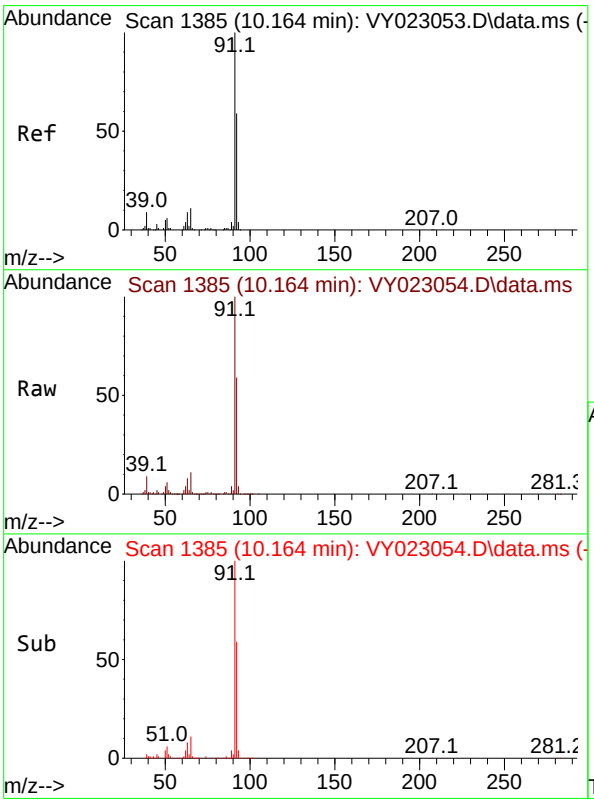
#51
4-Methyl-2-Pentanone
Concen: 486.924 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1669668

Ion	Ratio	Lower	Upper
43	100		
58	41.8	33.5	50.3

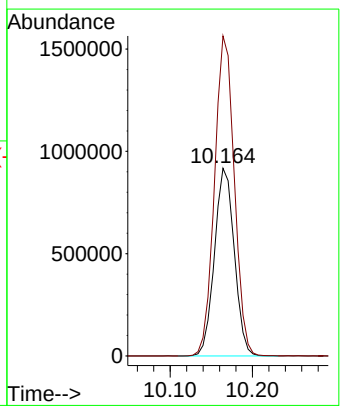


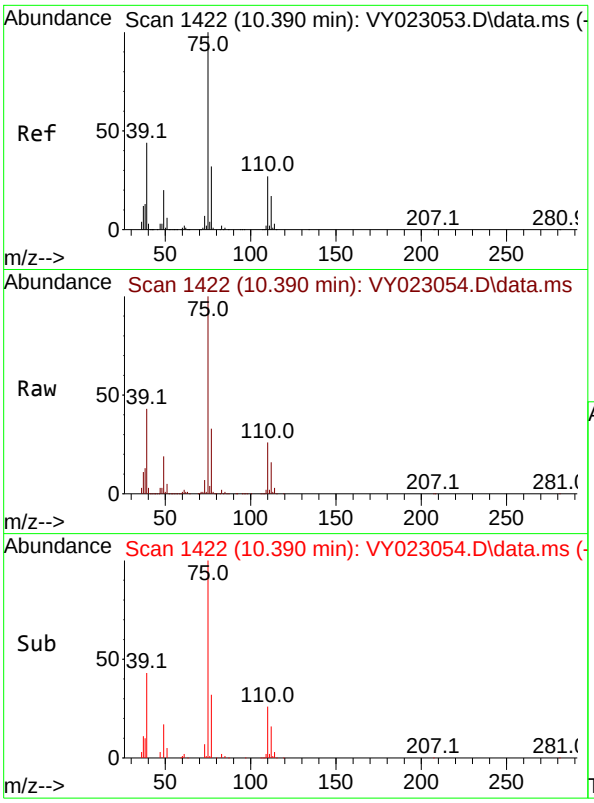


#52
Toluene
Concen: 100.288 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 92 Resp: 1537088

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6



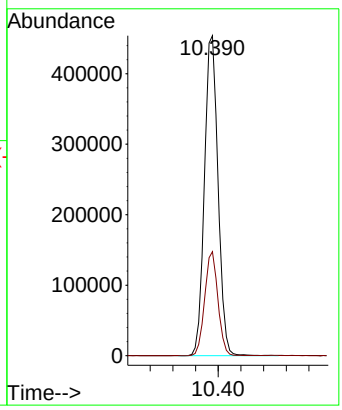


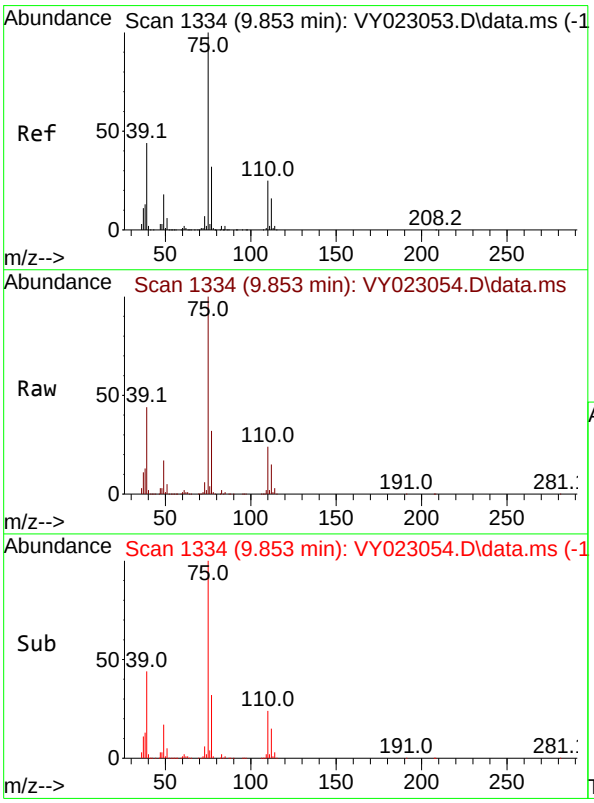
#53
t-1,3-Dichloropropene
Concen: 101.574 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 754278

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.7	38.5

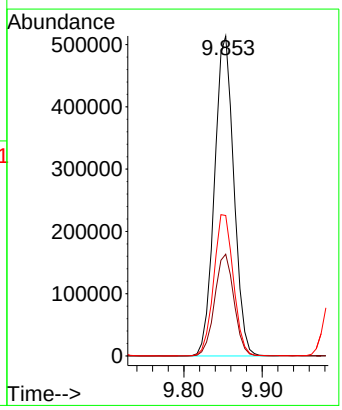


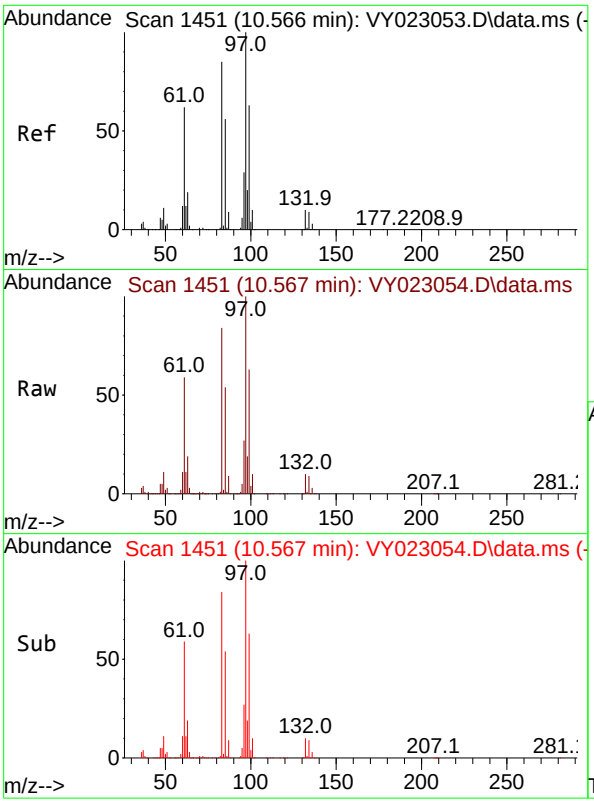


#54
cis-1,3-Dichloropropene
Concen: 100.281 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 880571

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.0
39	43.9	35.6	53.4



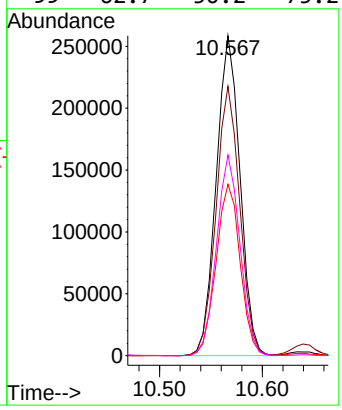


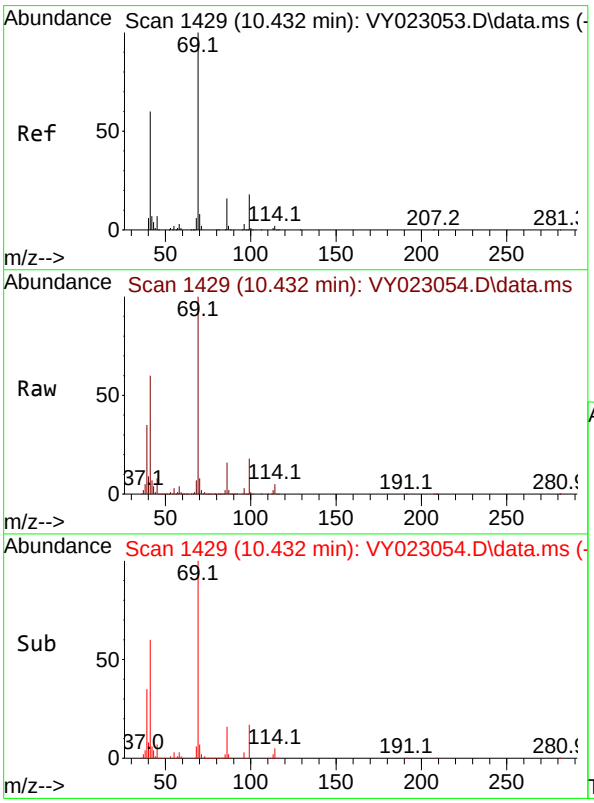
#55
1,1,2-Trichloroethane
Concen: 97.446 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 415556

Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.7	101.5
85	53.5	44.5	66.7
99	62.7	50.2	75.2

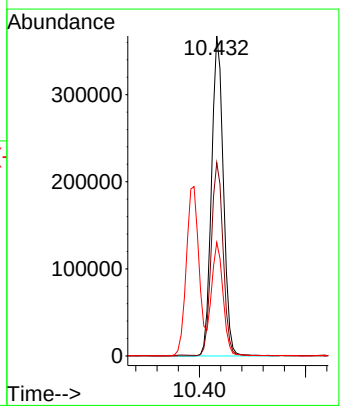


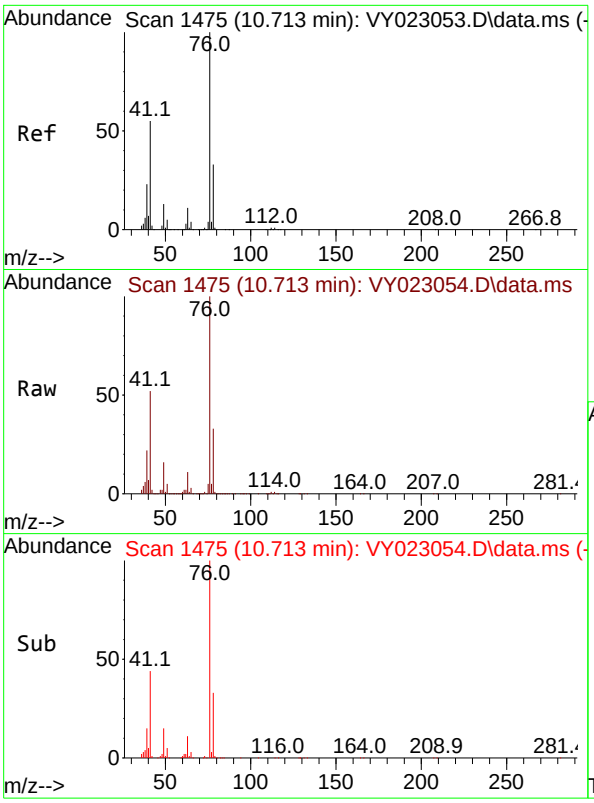


#56
Ethyl methacrylate
Concen: 104.375 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 69 Resp: 569556

Ion	Ratio	Lower	Upper
69	100		
41	60.4	48.6	72.8
39	33.4	27.0	40.4



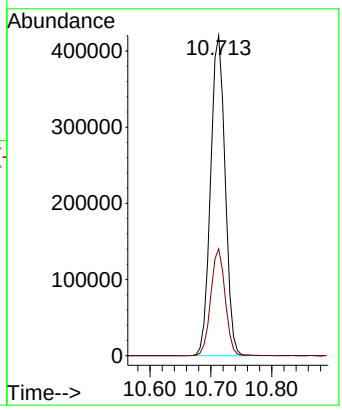


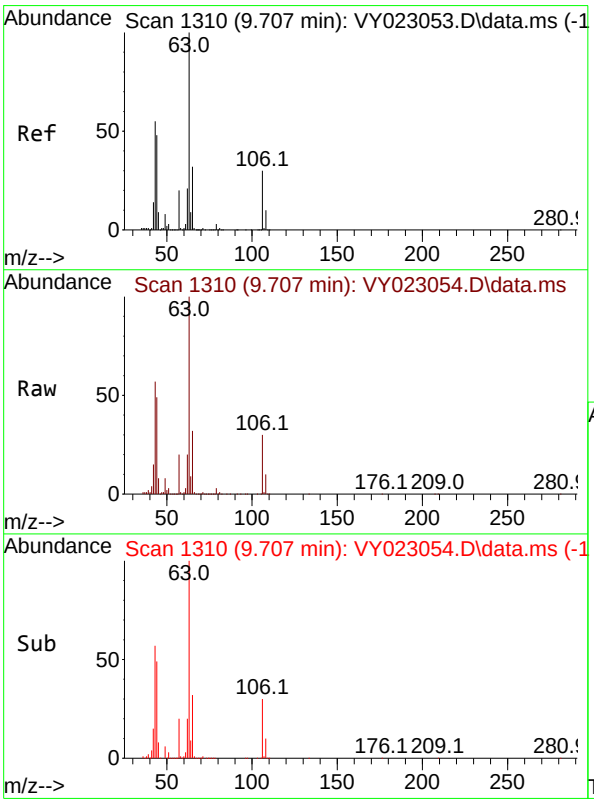
#57
1,3-Dichloropropane
Concen: 96.253 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 696130

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0

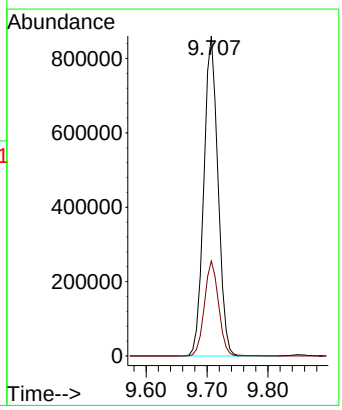


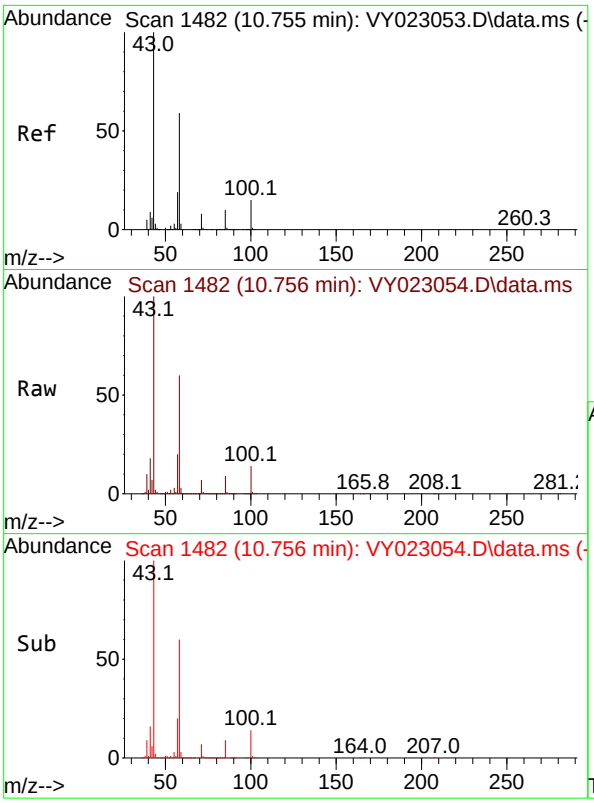


#58
2-Chloroethyl Vinyl ether
Concen: 539.957 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1389847

Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.2	34.8



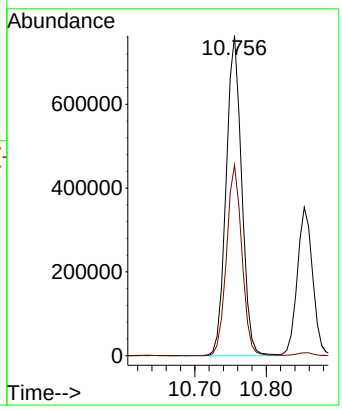


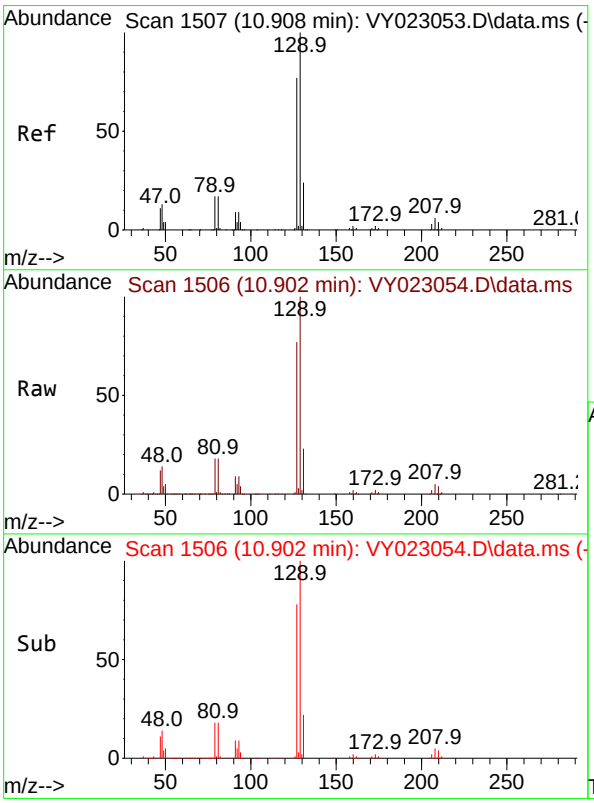
#59
2-Hexanone
Concen: 492.950 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1151000

Ion	Ratio	Lower	Upper
43	100		
58	58.9	29.5	88.5

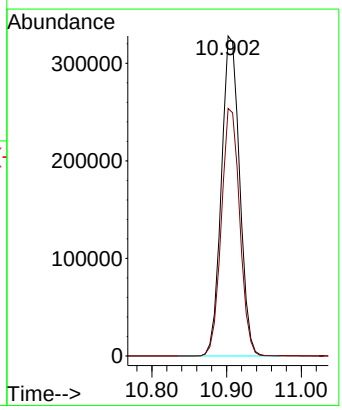


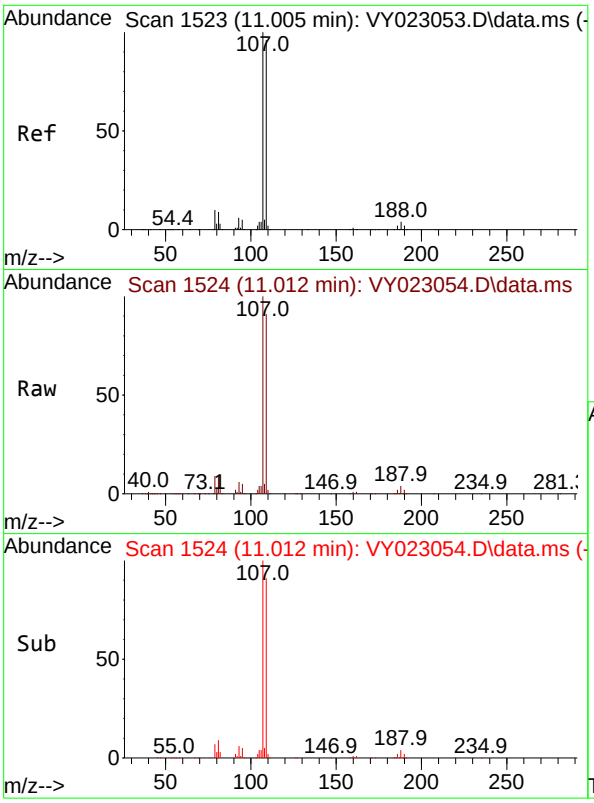


#60
Dibromochloromethane
Concen: 99.024 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:129 Resp: 557205

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5



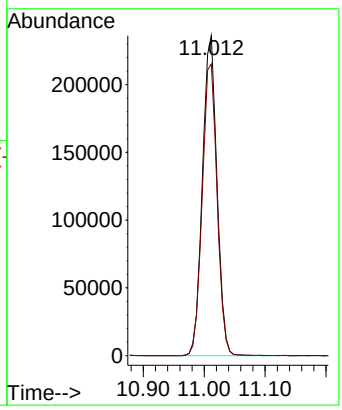


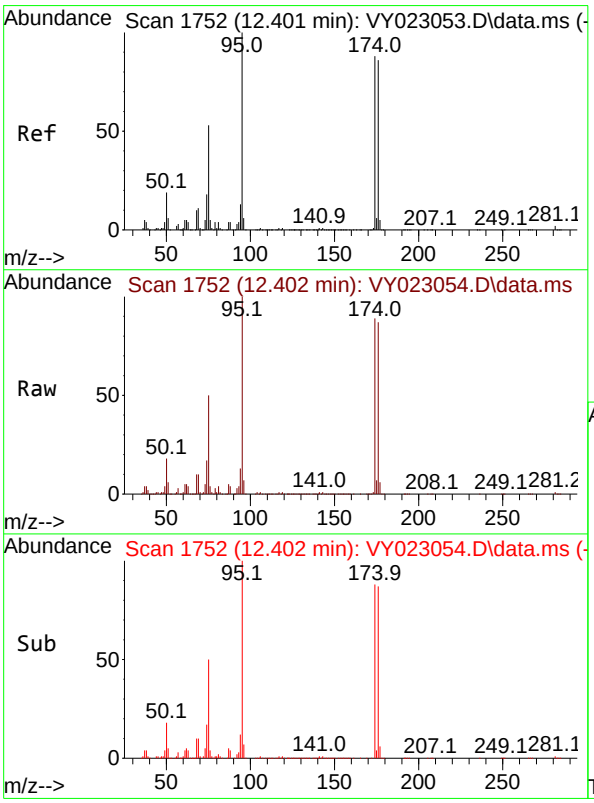
#61
1,2-Dibromoethane
Concen: 97.713 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 391650

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.6	113.4

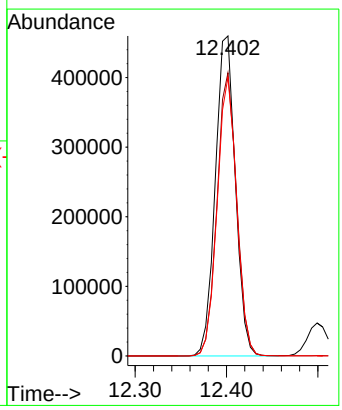


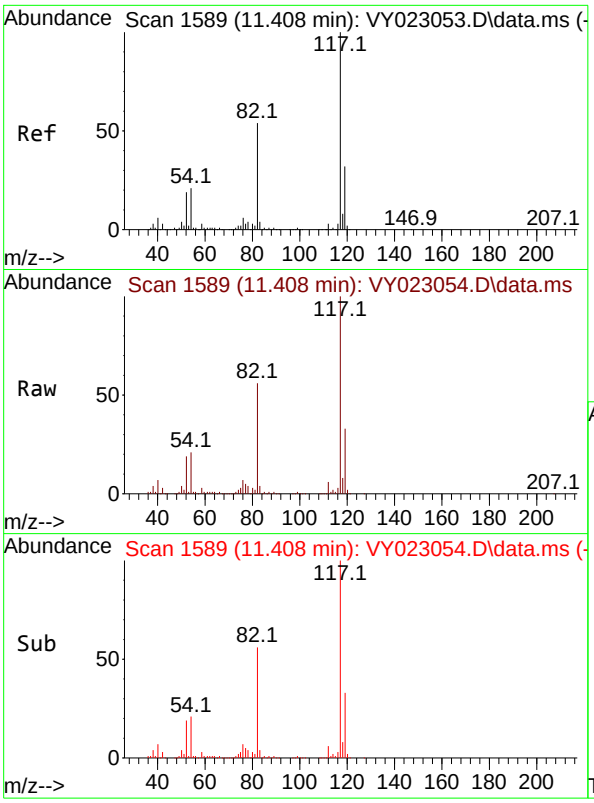


#62
4-Bromofluorobenzene
Concen: 106.147 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 95 Resp: 702583

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	171.6
176	84.8	0.0	167.6



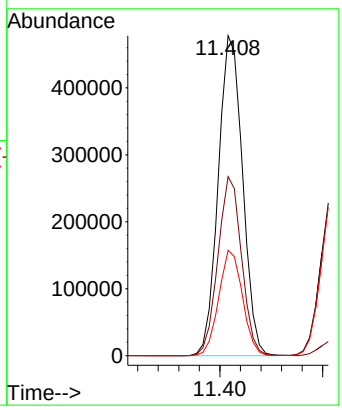


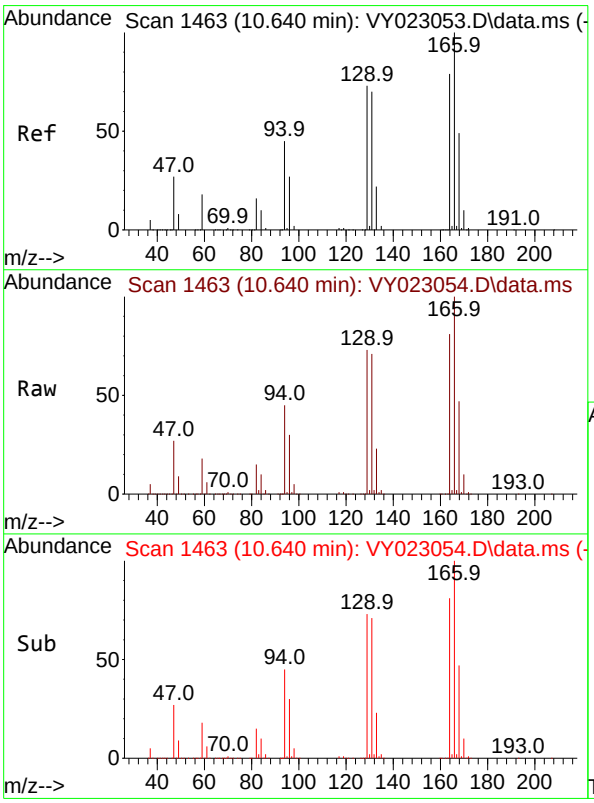
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 784385

Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.4	65.0
119	33.0	25.6	38.4

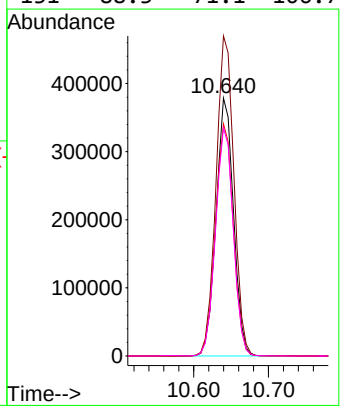


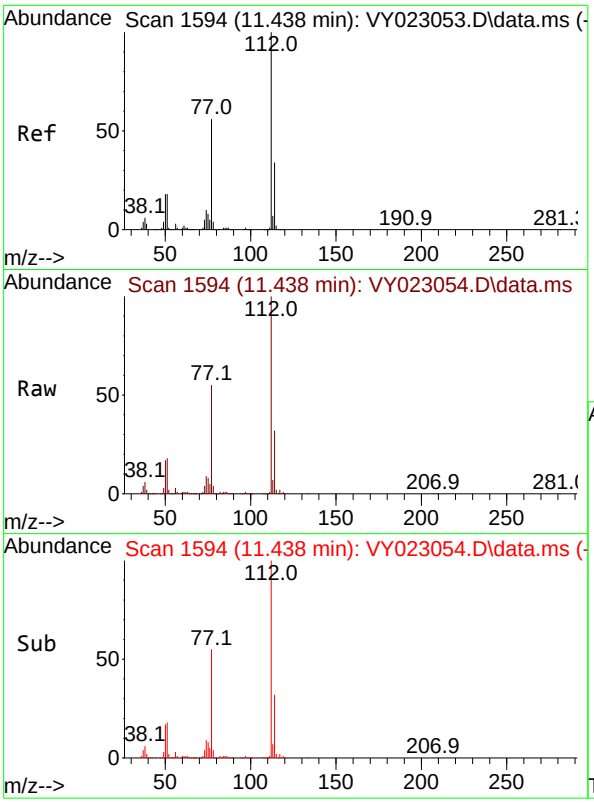


#64
Tetrachloroethene
Concen: 87.931 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:164 Resp: 615871

Ion	Ratio	Lower	Upper
164	100		
166	124.1	101.1	151.7
129	90.0	74.0	111.0
131	88.3	71.1	106.7



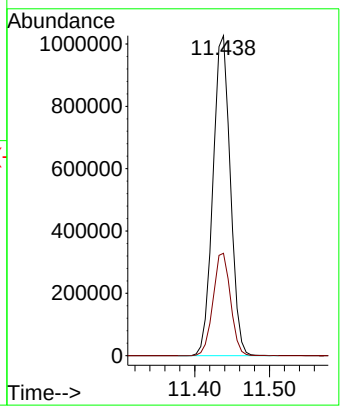


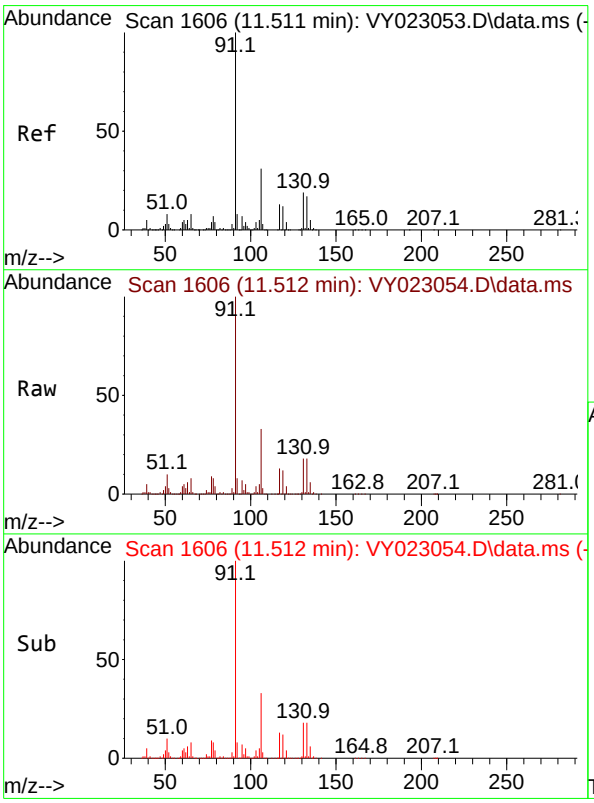
#65
Chlorobenzene
Concen: 98.004 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 1658154

Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.0	40.4

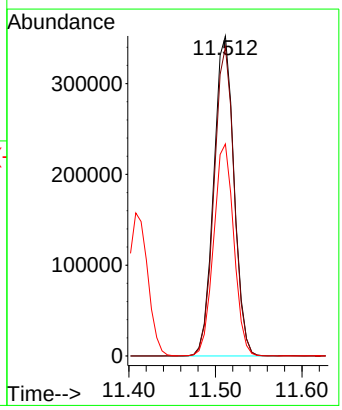


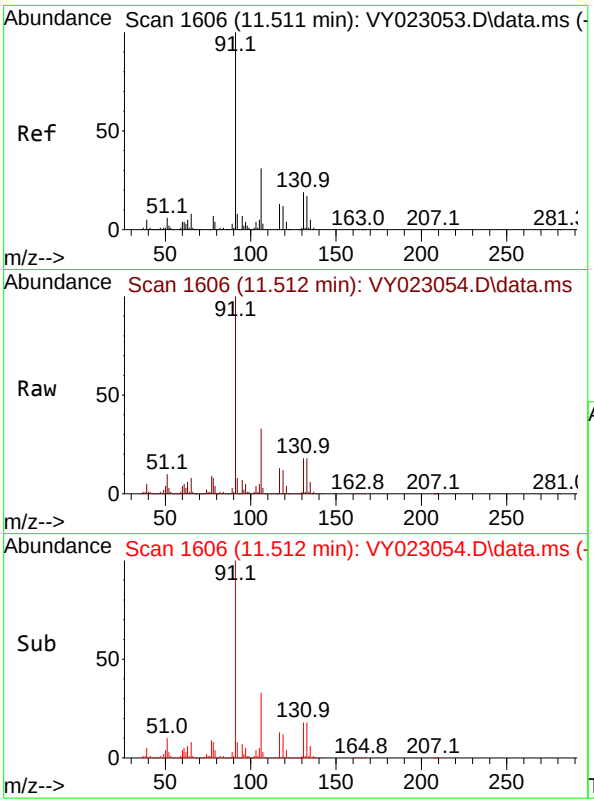


#66
1,1,1,2-Tetrachloroethane
Concen: 99.810 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:131 Resp: 573131

Ion	Ratio	Lower	Upper
131	100		
133	95.5	46.9	140.6
119	65.9	33.2	99.6



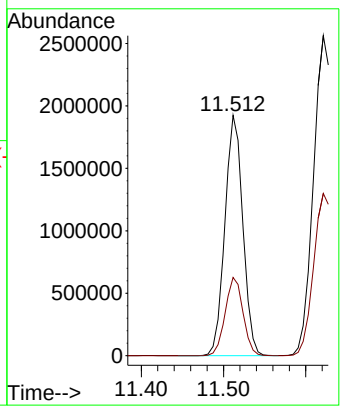


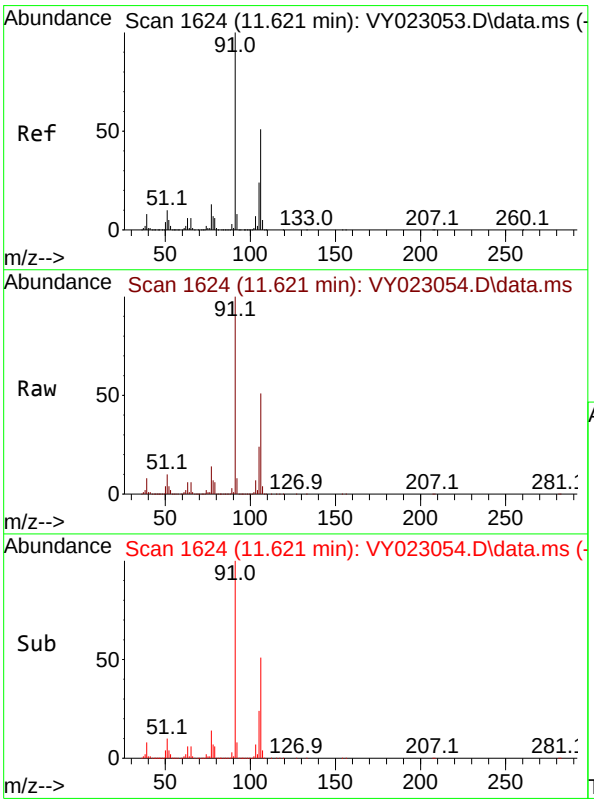
#67
Ethyl Benzene
Concen: 100.082 ug/l
RT: 11.512 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 2914020

Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.0	37.4

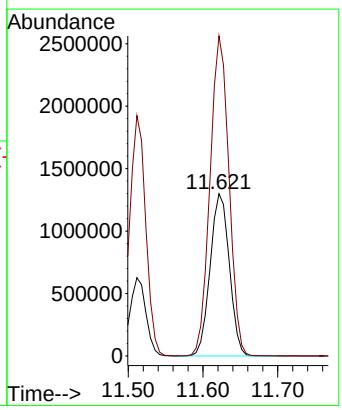


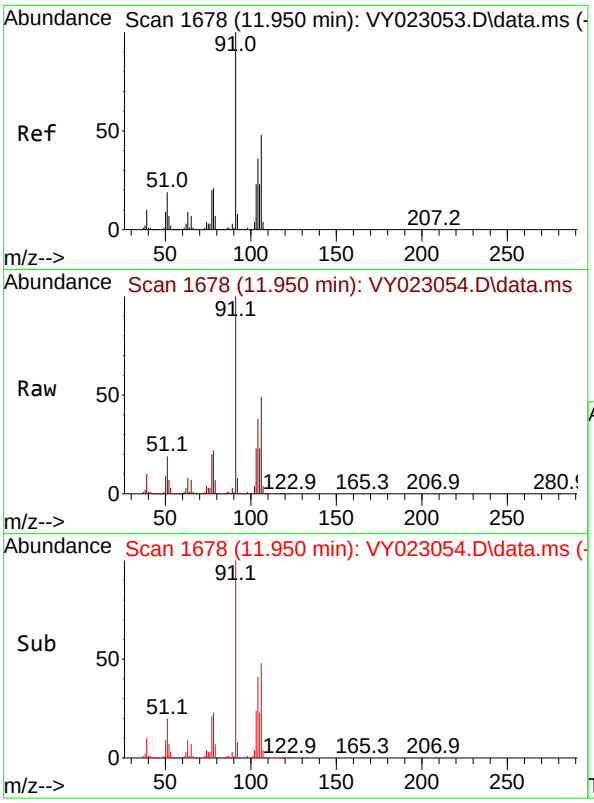


#68
m/p-Xylenes
Concen: 203.363 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 2312597

Ion	Ratio	Lower	Upper
106	100		
91	195.1	158.6	238.0



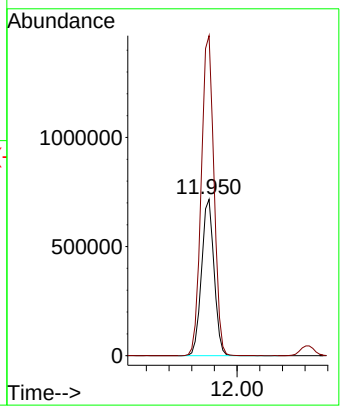


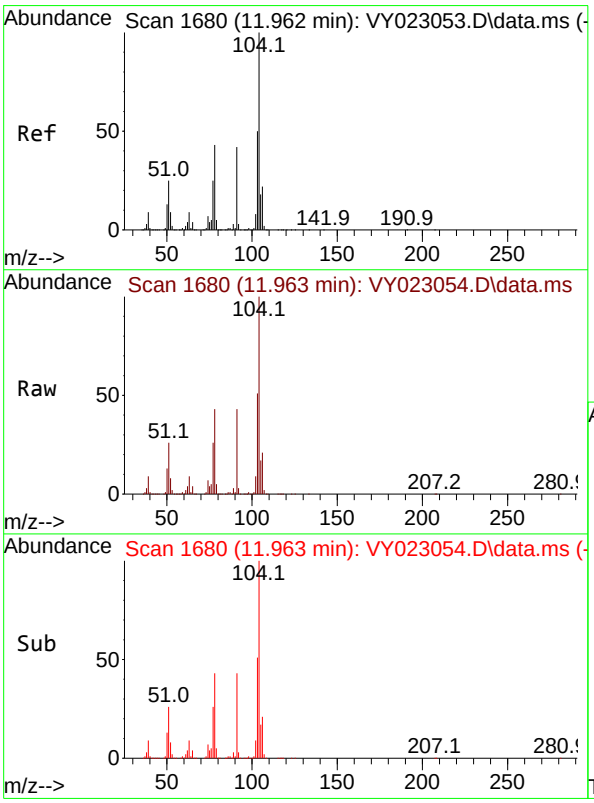
#69
o-Xylene
Concen: 103.373 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 1100998

Ion	Ratio	Lower	Upper
106	100		
91	207.5	103.2	309.4

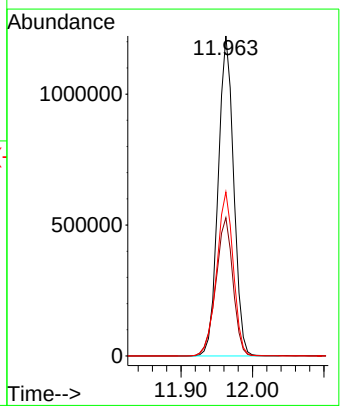


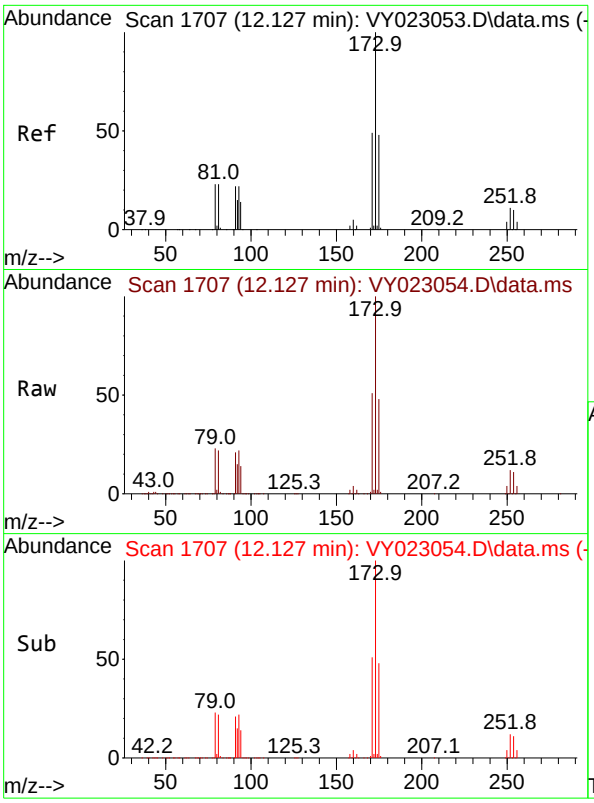


#70
Styrene
Concen: 105.953 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:104 Resp: 1845480

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.5	57.7
103	54.9	43.7	65.5



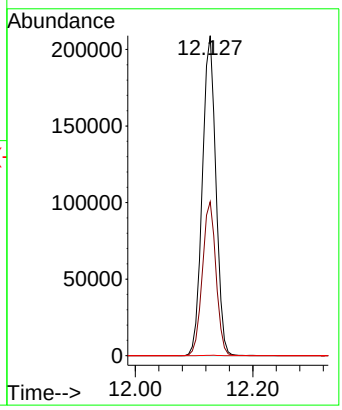


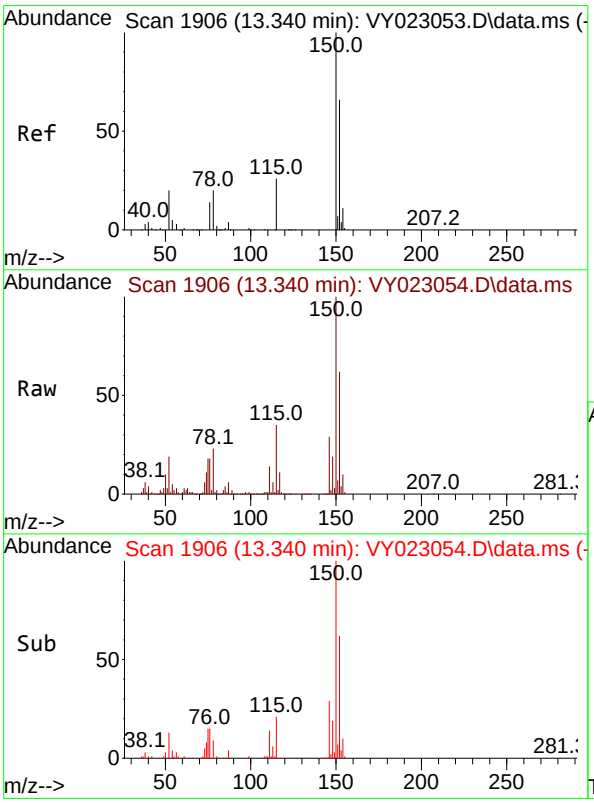
#71
Bromoform
Concen: 99.786 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 334886

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.9	71.7
254	0.1	0.1	0.1#

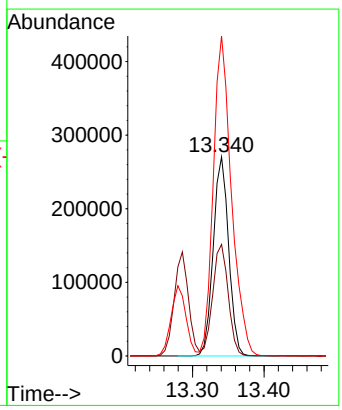


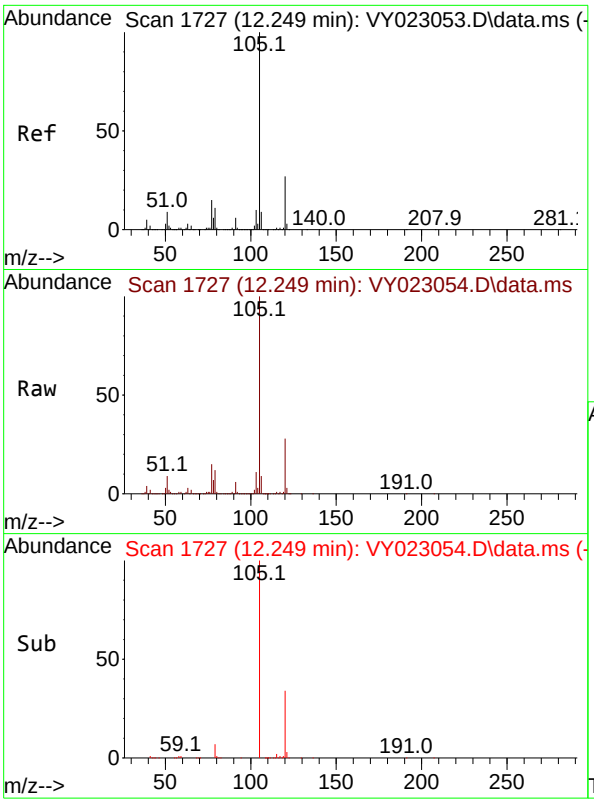


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:152 Resp: 404136

Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.2	84.6
150	189.2	0.0	348.0



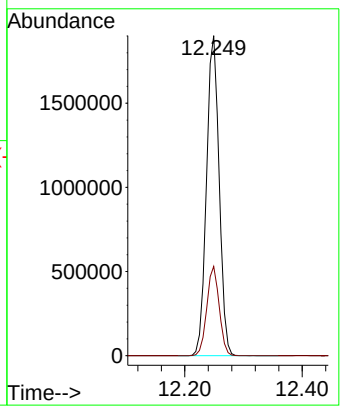


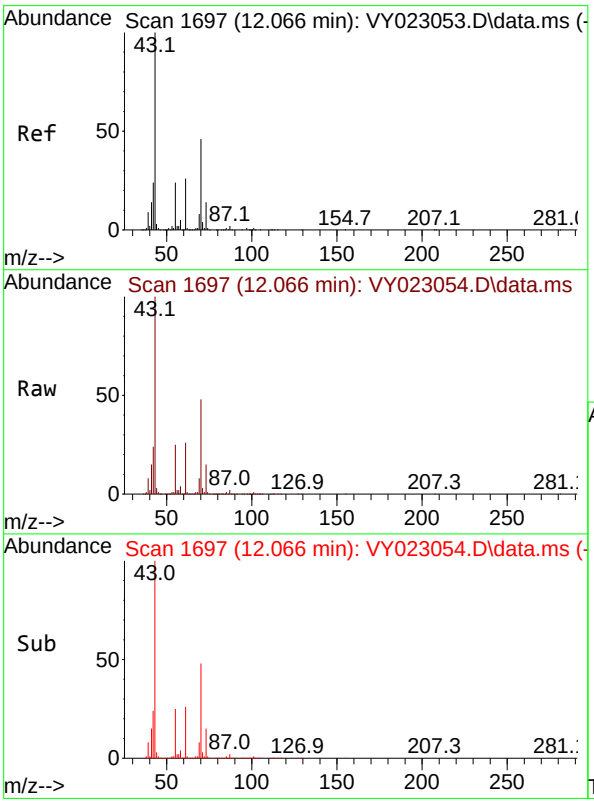
#73
Isopropylbenzene
Concen: 99.567 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 2839999

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2

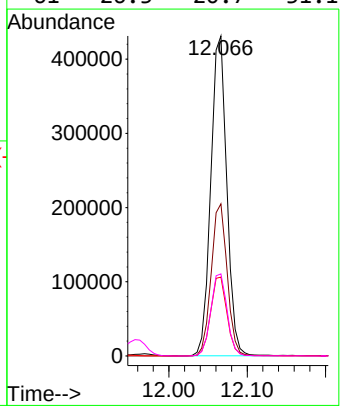


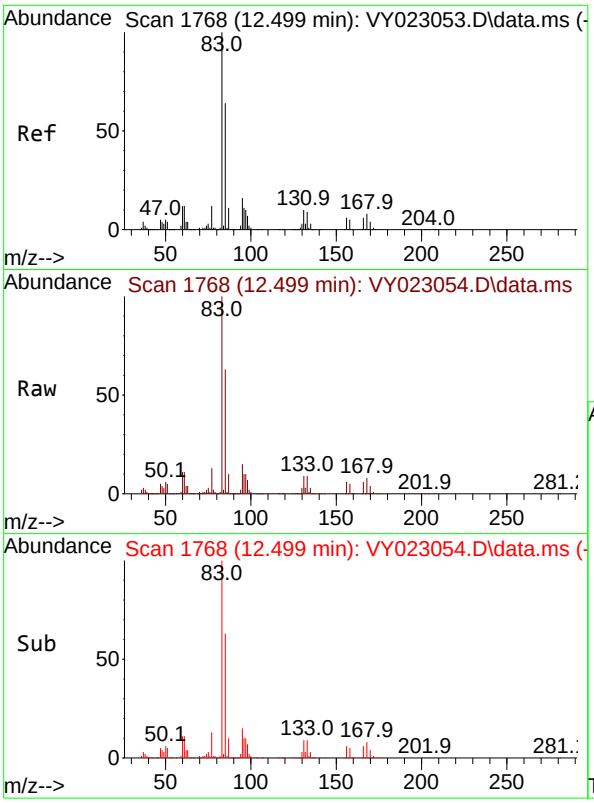


#74
N-amyl acetate
Concen: 100.955 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 610668

Ion	Ratio	Lower	Upper
43	100		
70	47.8	37.5	56.3
55	25.3	20.7	31.1
61	26.3	20.7	31.1



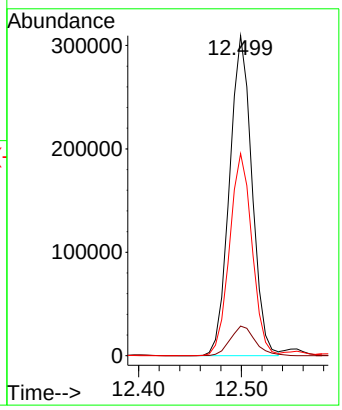


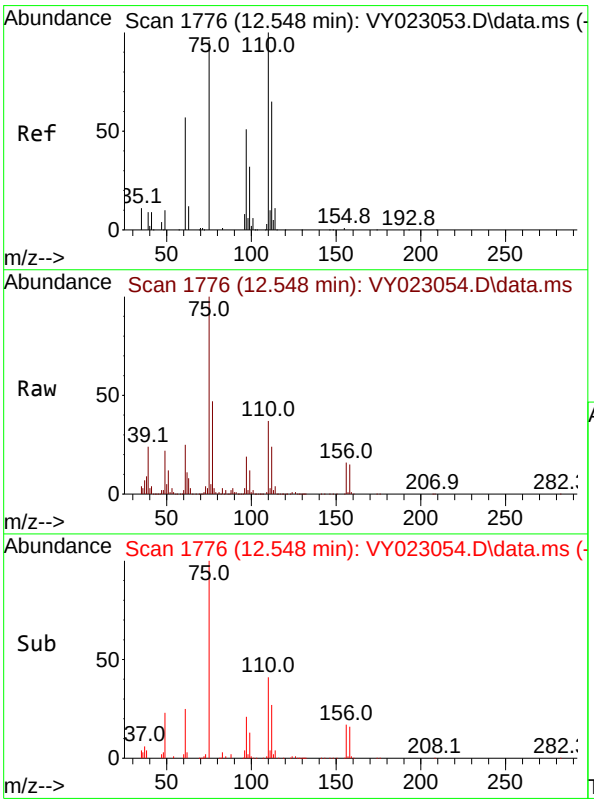
#75
1,1,2,2-Tetrachloroethane
Concen: 96.464 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 469810

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	63.3	31.8	95.3

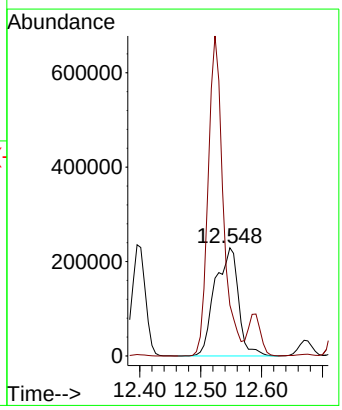


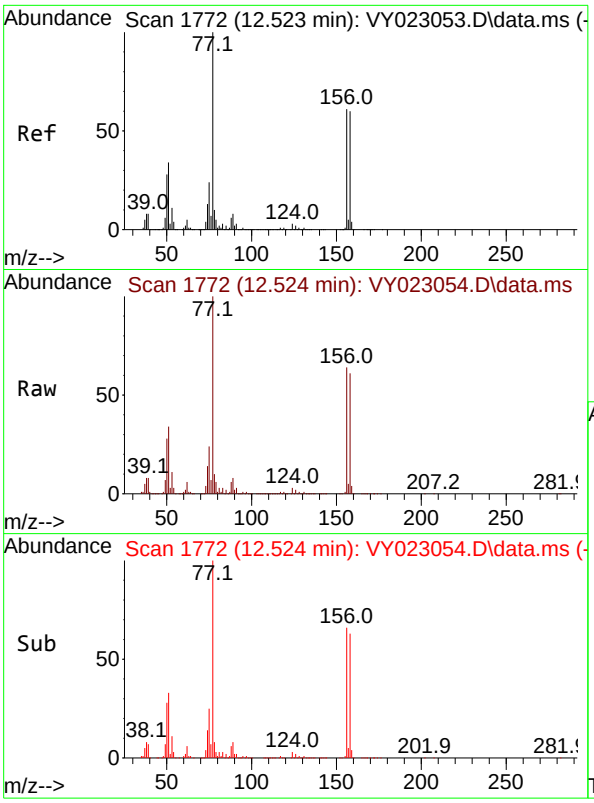


#76
1,2,3-Trichloropropane
Concen: 156.388 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 610364

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



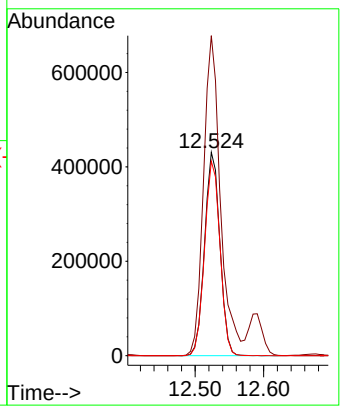


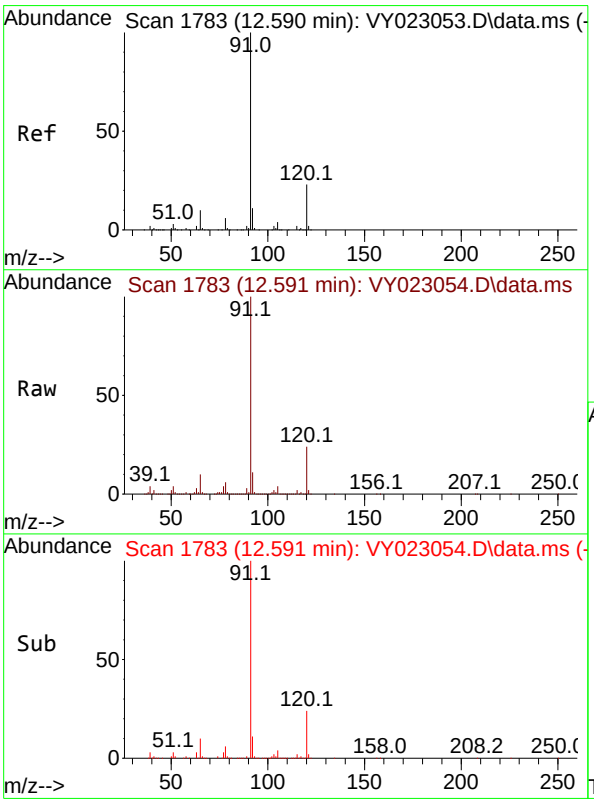
#77
Bromobenzene
Concen: 98.655 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 671329

Ion	Ratio	Lower	Upper
156	100		
77	172.8	88.1	264.4
158	96.5	48.0	144.0

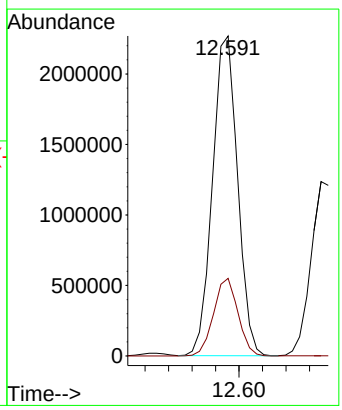


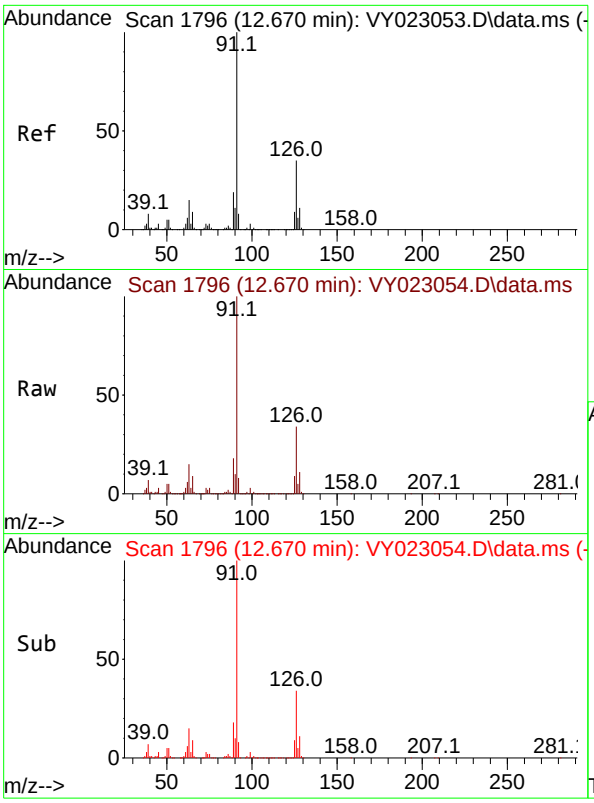


#78
n-propylbenzene
Concen: 98.963 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 3360679

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.5



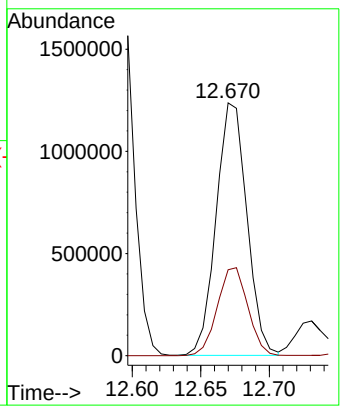


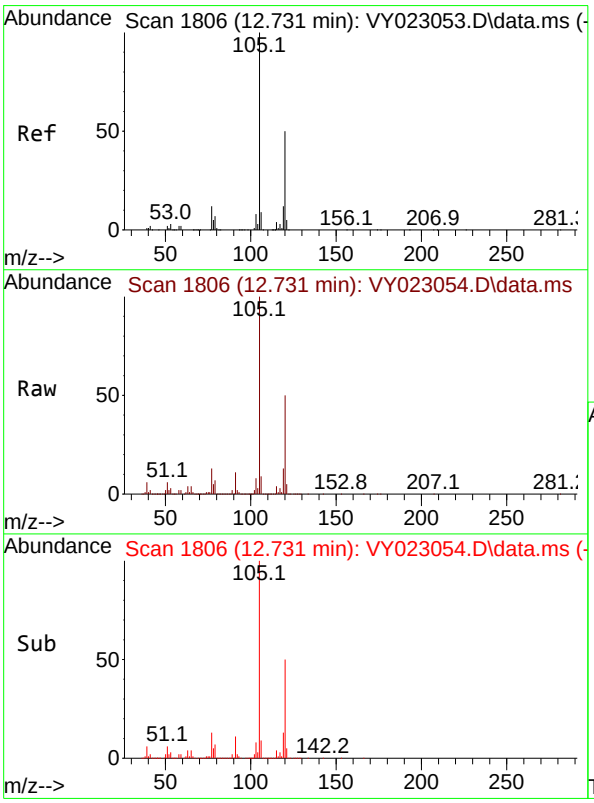
#79
2-Chlorotoluene
Concen: 99.268 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1931460

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

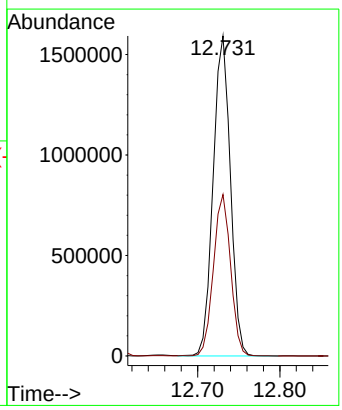


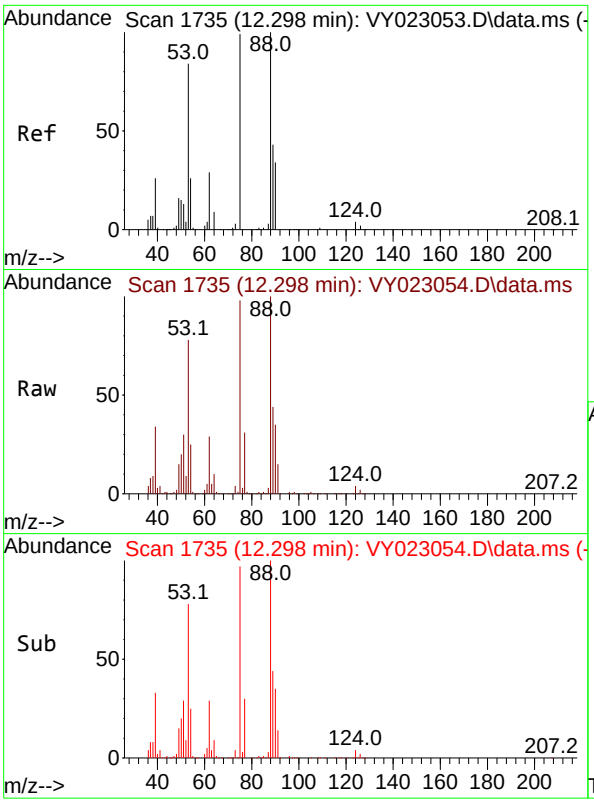


#80
1,3,5-Trimethylbenzene
Concen: 100.707 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2321527

Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.8	74.4



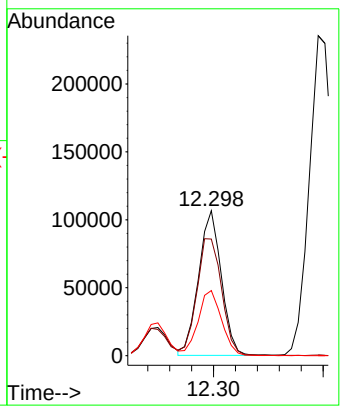


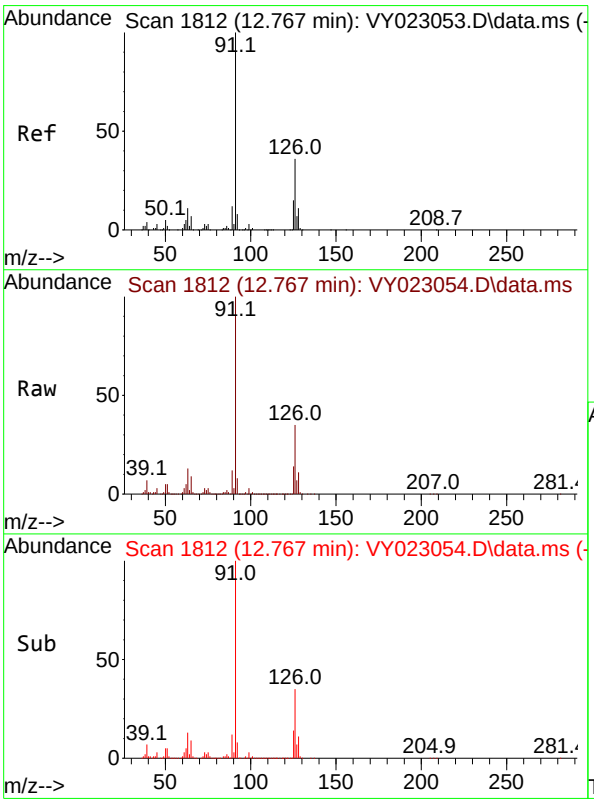
#81
trans-1,4-Dichloro-2-butene
Concen: 95.118 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 153260

Ion	Ratio	Lower	Upper
75	100		
53	88.4	70.8	106.2
89	47.0	38.1	57.1

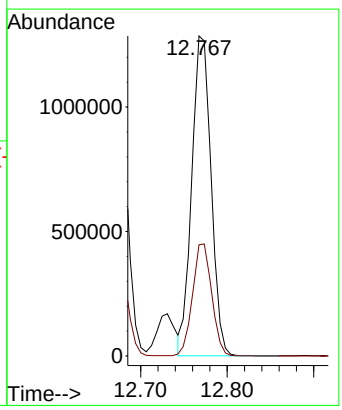


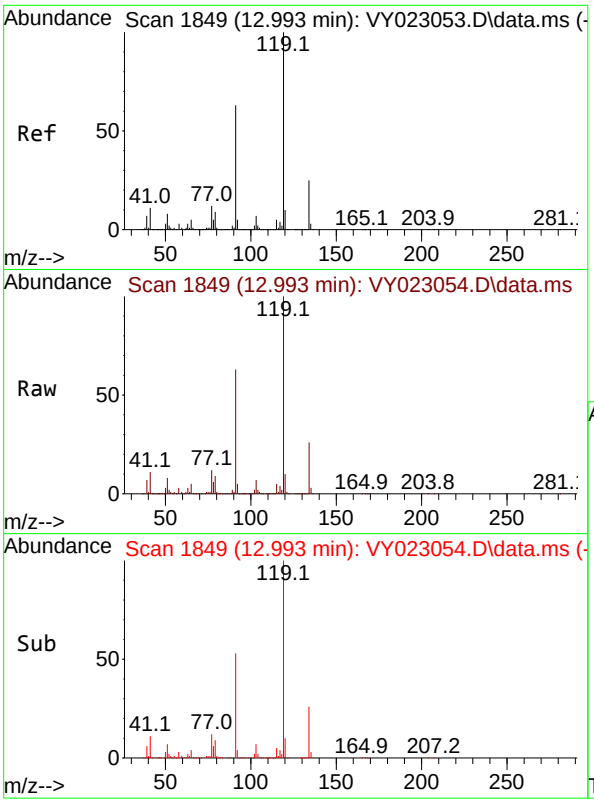


#82
4-Chlorotoluene
Concen: 98.519 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 1988544

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0



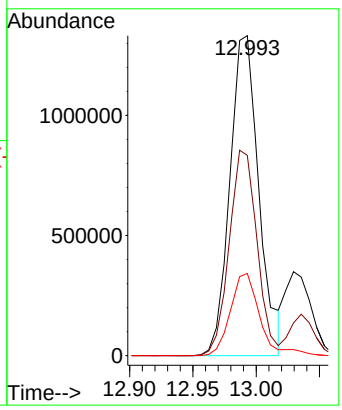


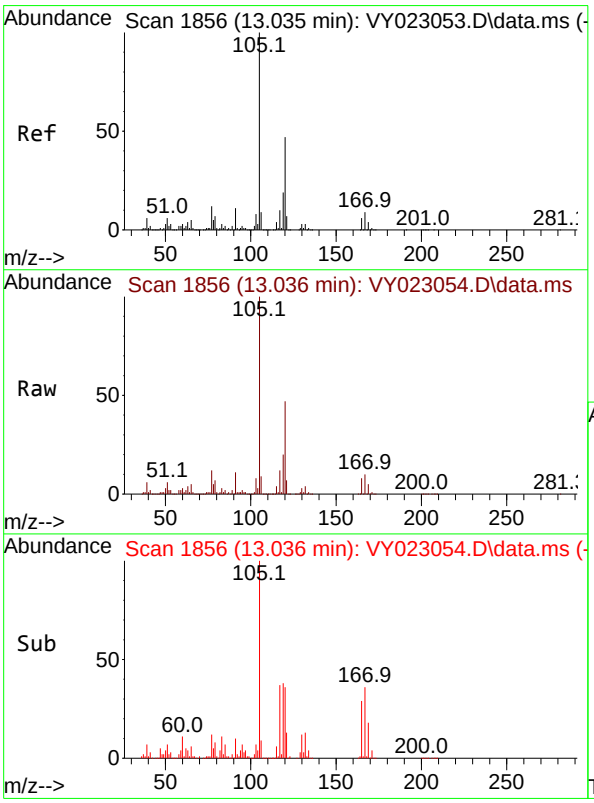
#83
tert-Butylbenzene
Concen: 102.102 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 2125785

Ion	Ratio	Lower	Upper
119	100		
91	61.6	31.6	94.8
134	26.2	12.9	38.7

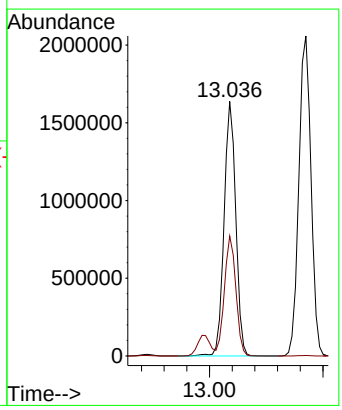


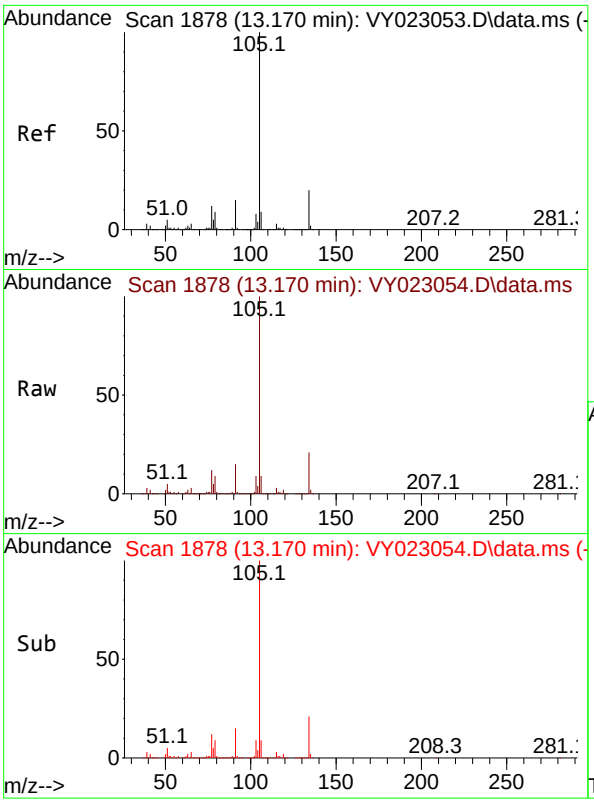


#84
1,2,4-Trimethylbenzene
Concen: 101.946 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2339432

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



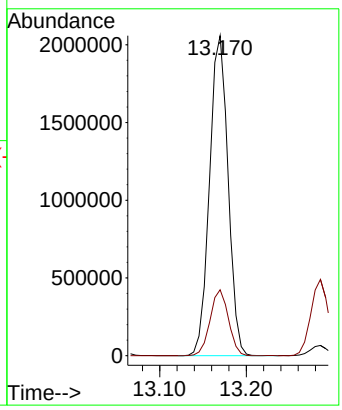


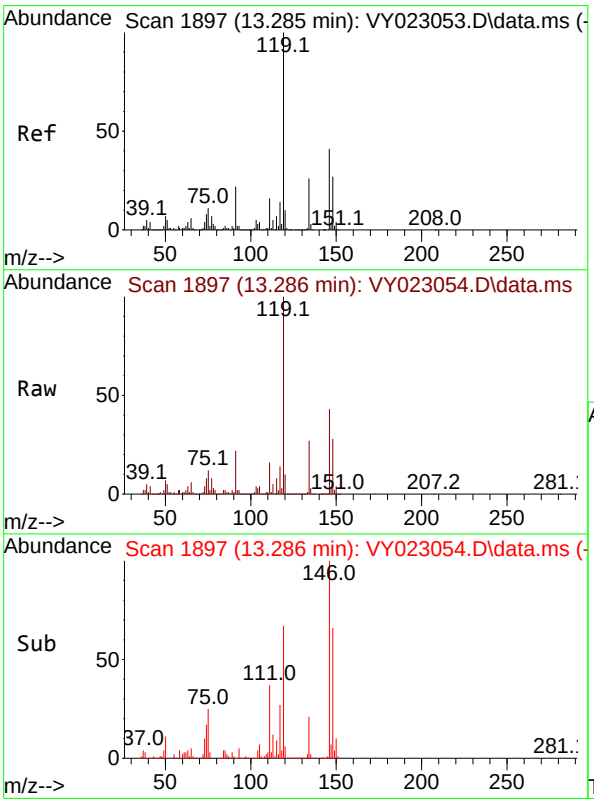
#85
sec-Butylbenzene
Concen: 99.932 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 3056373

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

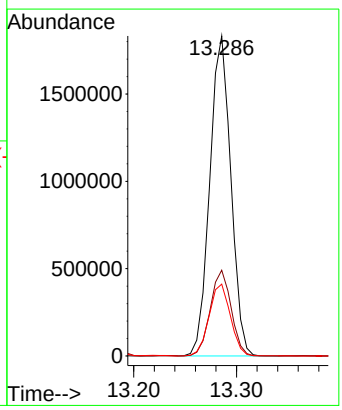


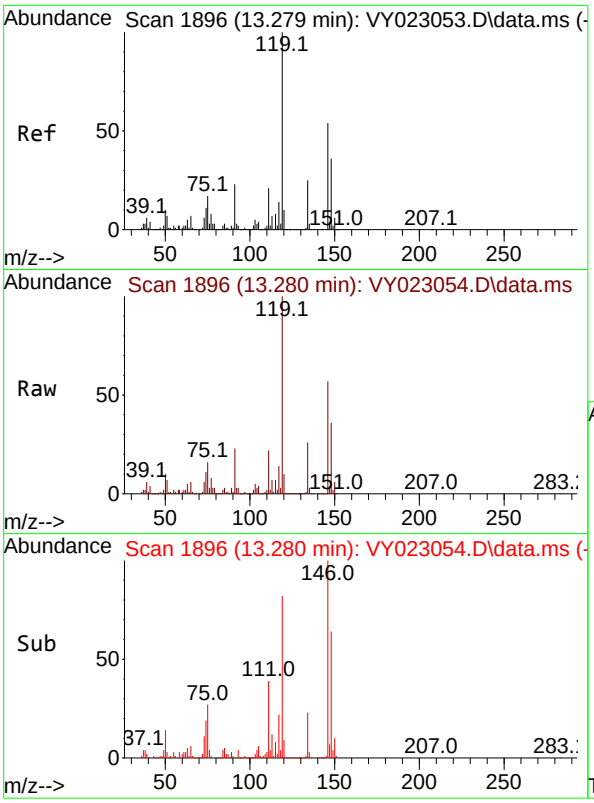


#86
p-Isopropyltoluene
Concen: 102.846 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:119 Resp: 2610936

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	22.7	11.3	33.8



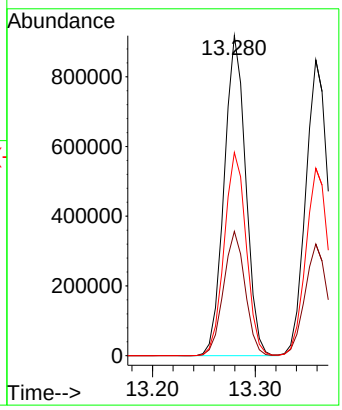


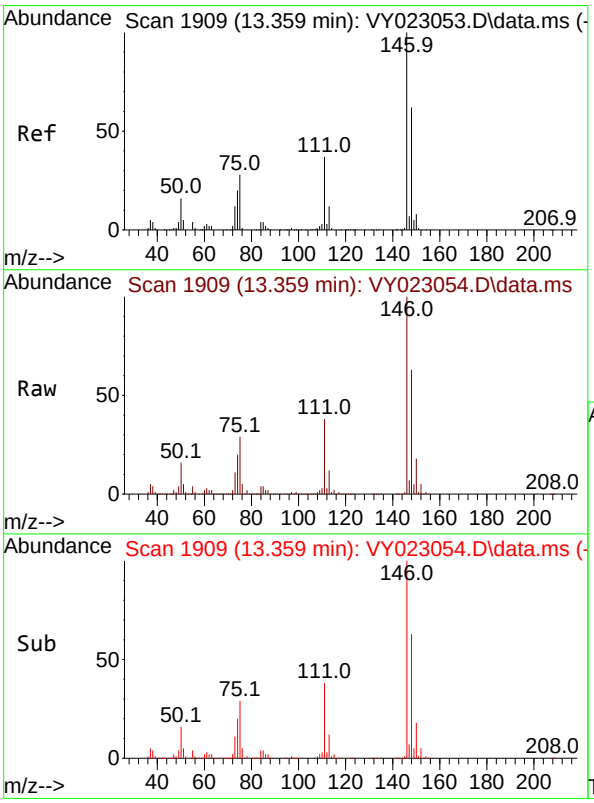
#87
1,3-Dichlorobenzene
Concen: 99.748 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1338547

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	64.5	32.5	97.5

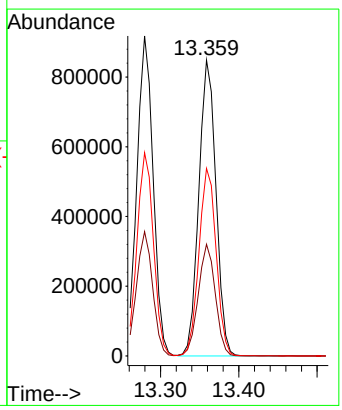


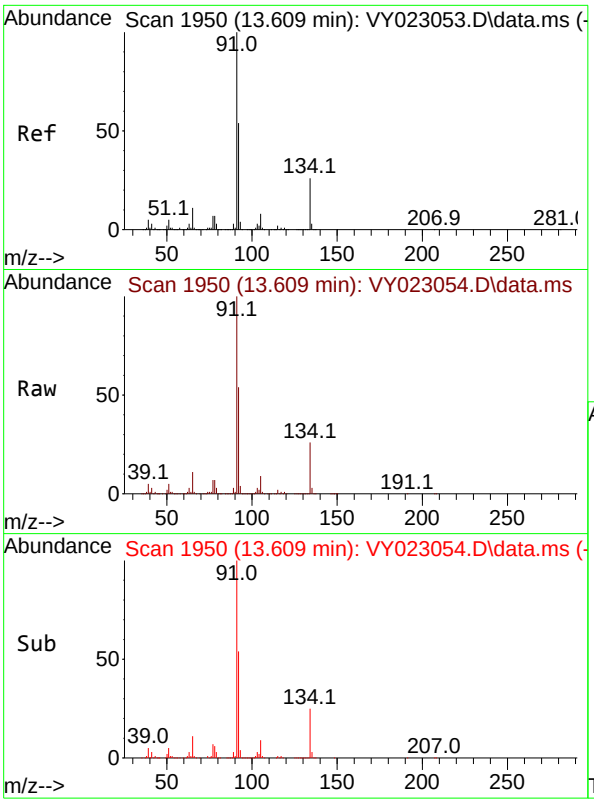


#88
1,4-Dichlorobenzene
Concen: 96.970 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 1290840

Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	63.7	31.6	94.7



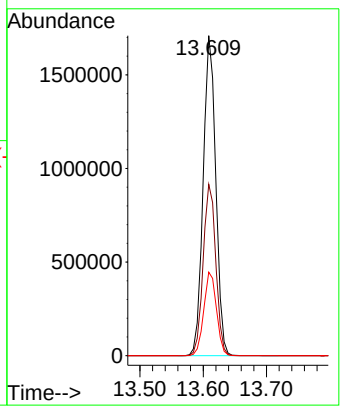


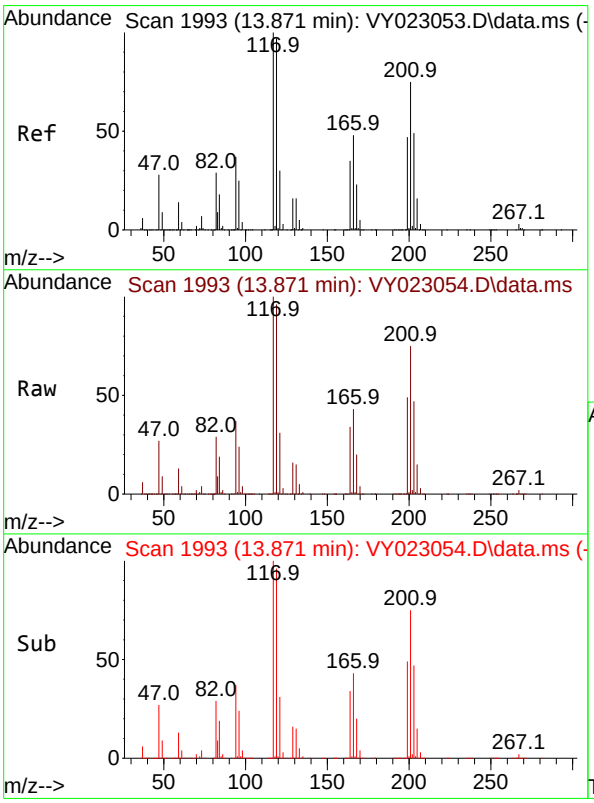
#89
n-Butylbenzene
Concen: 101.675 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 2370706

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.7
134	26.4	13.2	39.5

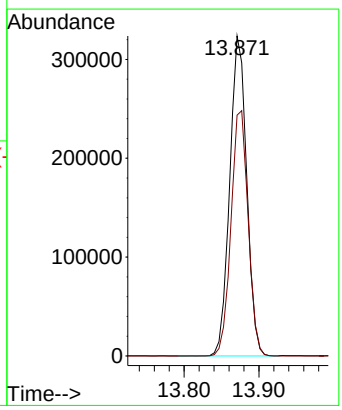


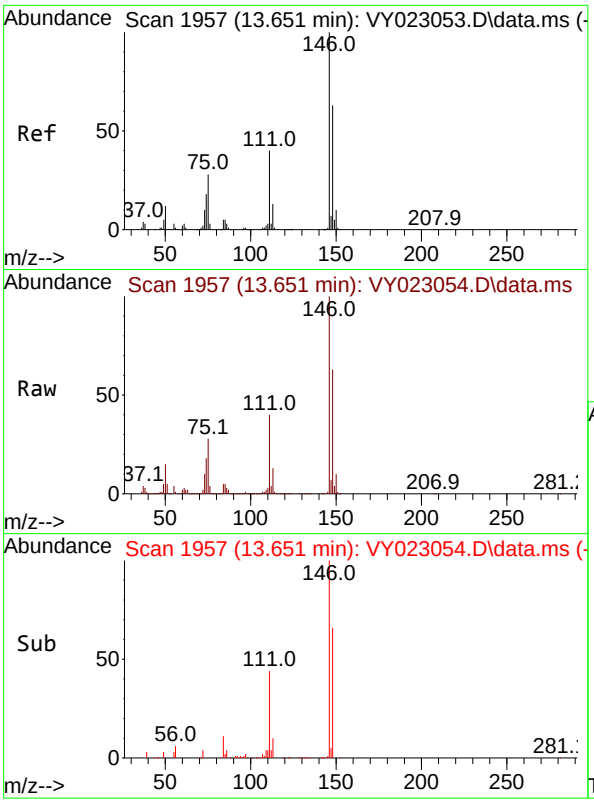


#90
Hexachloroethane
Concen: 98.308 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 510900

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1



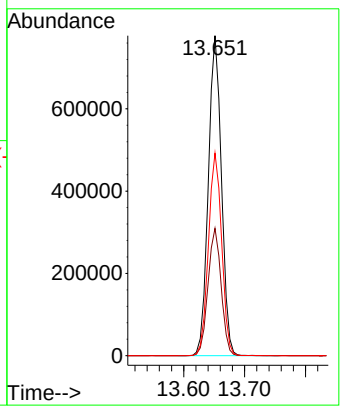


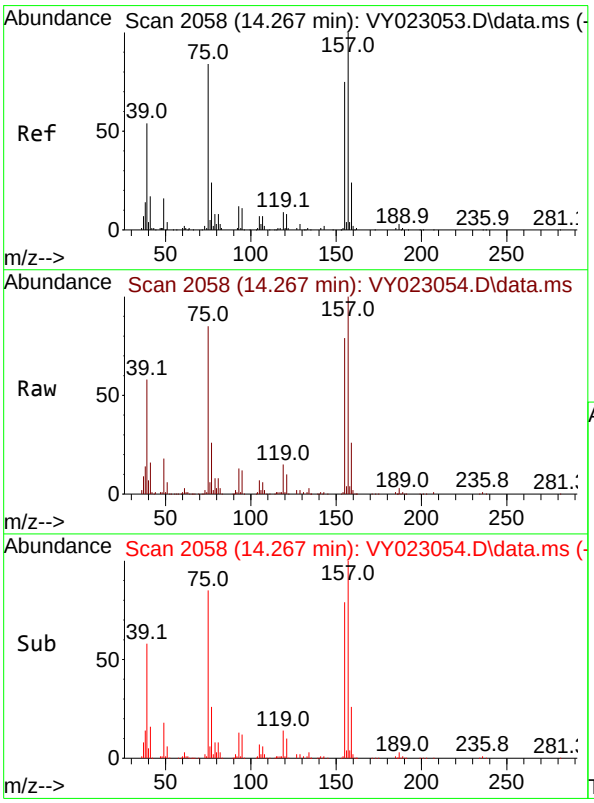
#91
1,2-Dichlorobenzene
Concen: 98.749 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1162152

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.9	32.2	96.6

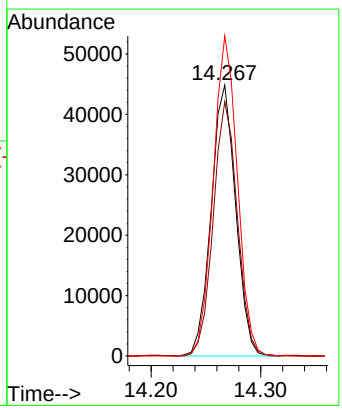


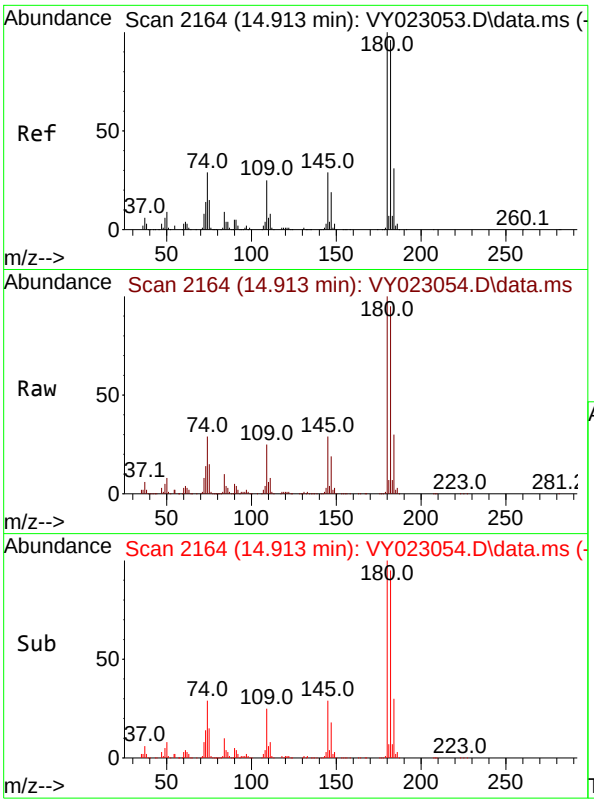


#92
1,2-Dibromo-3-Chloropropane
Concen: 91.965 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 69736

Ion	Ratio	Lower	Upper
75	100		
155	92.1	43.9	131.6
157	116.2	57.2	171.6



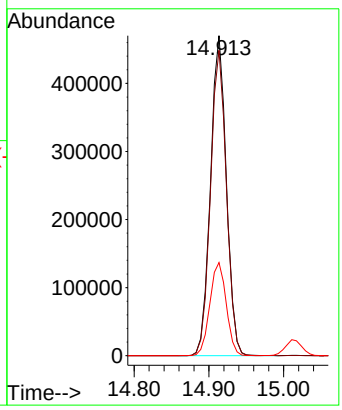


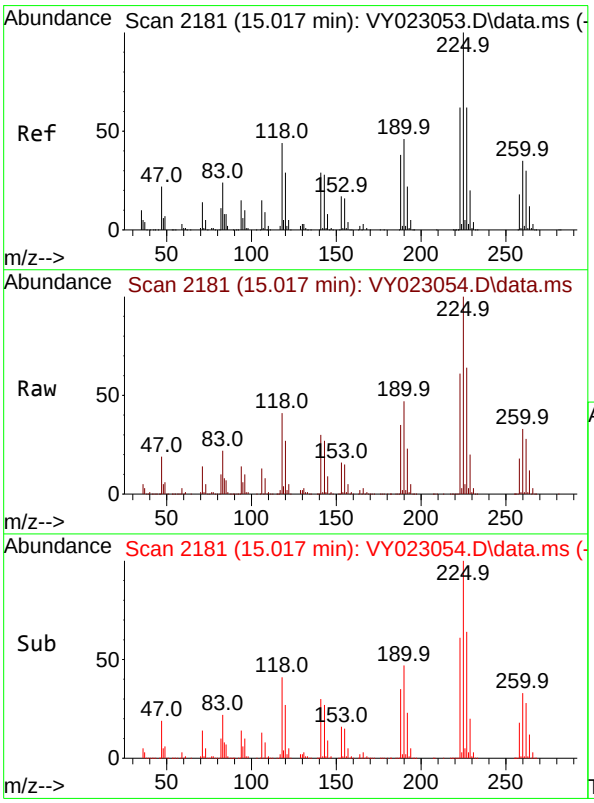
#93
1,2,4-Trichlorobenzene
Concen: 99.460 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 692201

Ion	Ratio	Lower	Upper
180	100		
182	95.8	46.8	140.4
145	30.1	14.4	43.4

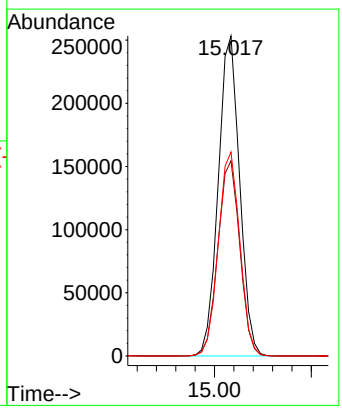


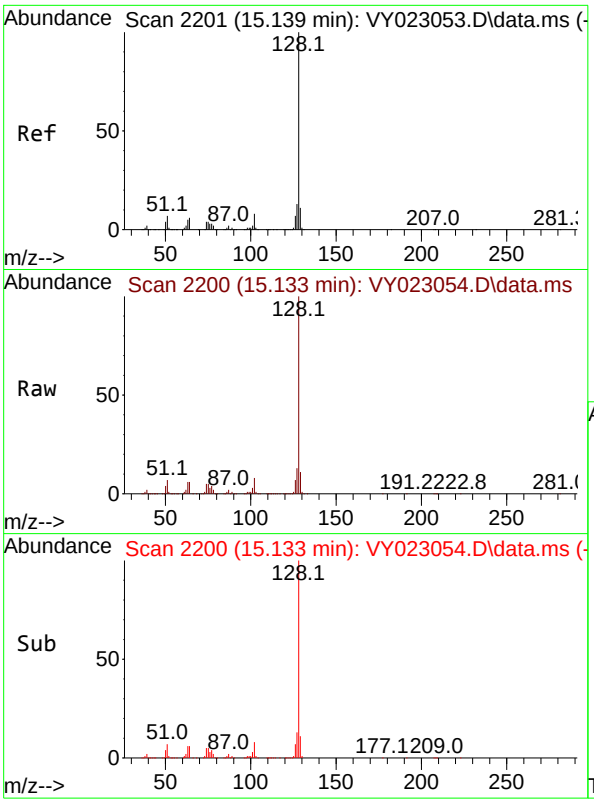


#94
Hexachlorobutadiene
Concen: 94.803 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:225 Resp: 387707

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.3	93.8
227	64.2	31.5	94.5



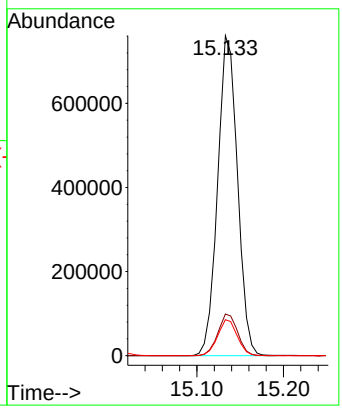


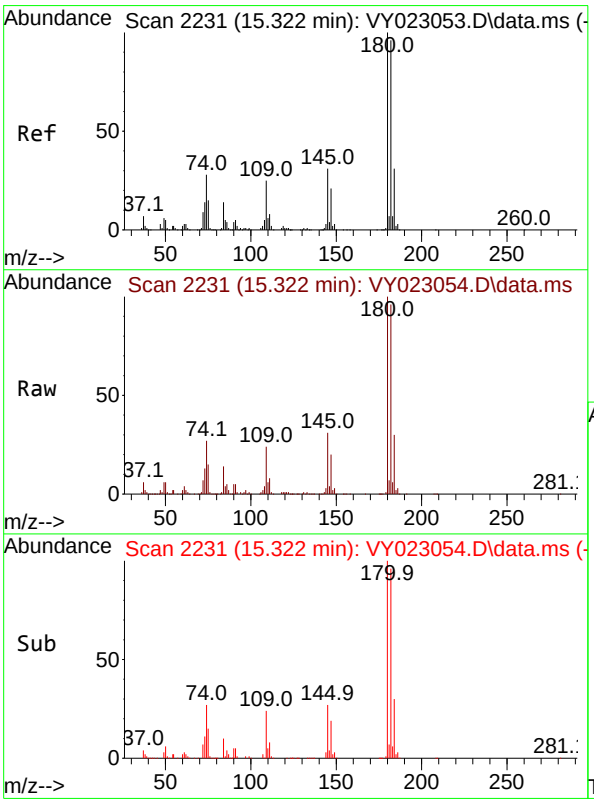
#95
Naphthalene
Concen: 102.147 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 1212227

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.1	9.0	13.4

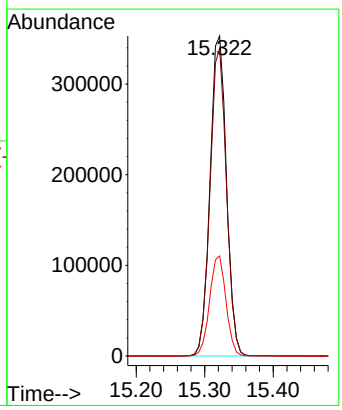




#96
1,2,3-Trichlorobenzene
Concen: 98.046 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:180 Resp: 587990

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.7
145	31.2	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	538712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	844092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	756365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	389949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	746936	145.480	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 290.960%#			
35) Dibromofluoromethane	7.628	113	771944	152.837	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 305.680%#			
50) Toluene-d8	10.103	98	3003834	152.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 304.480%#			
62) 4-Bromofluorobenzene	12.402	95	998318	157.326	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 314.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	571723	130.017	ug/l	98
3) Chloromethane	2.062	50	991215	139.173	ug/l	99
4) Vinyl Chloride	2.202	62	1238646	140.692	ug/l	99
5) Bromomethane	2.580	94	938717	142.770	ug/l	100
6) Chloroethane	2.720	64	834547	142.581	ug/l	100
7) Trichlorofluoromethane	3.043	101	1574213	147.051	ug/l	99
8) Diethyl Ether	3.446	74	426242	150.496	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.806	101	763053	144.479	ug/l	99
10) Methyl Iodide	3.995	142	909378	159.567	ug/l	100
11) Tert butyl alcohol	4.860	59	265243	753.967	ug/l	100
12) 1,1-Dichloroethene	3.781	96	768098	147.960	ug/l	95
13) Acrolein	3.647	56	374594	727.070	ug/l	98
14) Allyl chloride	4.372	41	1151194	150.707	ug/l	99
15) Acrylonitrile	5.049	53	883293	767.115	ug/l	99
16) Acetone	3.866	43	777658	699.133	ug/l	100
17) Carbon Disulfide	4.098	76	2426564	143.357	ug/l	99
18) Methyl Acetate	4.379	43	500151	151.100	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	2113920	157.144	ug/l	99
20) Methylene Chloride	4.604	84	846955	152.064	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	889517	152.474	ug/l	97
22) Diisopropyl ether	6.012	45	2594499	156.307	ug/l	99
23) Vinyl Acetate	5.951	43	7267824	791.851	ug/l	99
24) 1,1-Dichloroethane	5.909	63	1527663	150.534	ug/l	99
25) 2-Butanone	6.890	43	1144112	756.289	ug/l	97
26) 2,2-Dichloropropane	6.878	77	1293043	147.663	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	1047717	155.348	ug/l	98
28) Bromochloromethane	7.238	49	599841	148.984	ug/l	98
29) Tetrahydrofuran	7.256	42	734408	783.186	ug/l	99
30) Chloroform	7.415	83	1585686	151.505	ug/l	95
31) Cyclohexane	7.695	56	1354021	141.586	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	1396470	150.372	ug/l	100
36) 1,1-Dichloropropene	7.829	75	1132306	150.850	ug/l	99
37) Ethyl Acetate	6.982	43	494371	156.788	ug/l	99
38) Carbon Tetrachloride	7.811	117	1226800	150.478	ug/l	96
39) Methylcyclohexane	9.103	83	1556004	157.417	ug/l	98
40) Benzene	8.073	78	3533174	152.720	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	261721	143.669	ug/l		90
42) 1,2-Dichloroethane	8.152	62	909030	151.078	ug/l		100
43) Isopropyl Acetate	8.195	43	1029854	161.596	ug/l		98
44) Trichloroethene	8.860	130	909510	152.126	ug/l		94
45) 1,2-Dichloropropane	9.134	63	822035	154.426	ug/l		99
46) Dibromomethane	9.225	93	480162	157.156	ug/l		100
47) Bromodichloromethane	9.420	83	1217658	154.884	ug/l		99
48) Methyl methacrylate	9.213	41	497527	163.144	ug/l		97
49) 1,4-Dioxane	9.225	88	117513	3280.235	ug/l		98
51) 4-Methyl-2-Pentanone	9.993	43	2677587	814.509	ug/l		99
52) Toluene	10.164	92	2332797	158.762	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	1162952	163.355	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	1366797	162.359	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	642236	157.090	ug/l		98
56) Ethyl methacrylate	10.432	69	908662	173.693	ug/l		100
57) 1,3-Dichloropropane	10.713	76	1087297	156.818	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	2167815	878.488	ug/l		99
59) 2-Hexanone	10.756	43	1848093	825.606	ug/l		100
60) Dibromochloromethane	10.908	129	860181	159.454	ug/l		99
61) 1,2-Dibromoethane	11.012	107	613069	159.546	ug/l		99
64) Tetrachloroethene	10.640	164	990664	146.682	ug/l		98
65) Chlorobenzene	11.438	112	2520874	154.514	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	871003	157.304	ug/l		99
67) Ethyl Benzene	11.511	91	4438665	158.093	ug/l		98
68) m/p-Xylenes	11.621	106	3511726	320.251	ug/l		96
69) o-Xylene	11.950	106	1683720	163.941	ug/l		100
70) Styrene	11.963	104	2846443	169.475	ug/l		99
71) Bromoform	12.127	173	523541	161.778	ug/l	#	98
73) Isopropylbenzene	12.249	105	4269945	155.145	ug/l		99
74) N-amyl acetate	12.066	43	982090	168.265	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	717524	152.686	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	950569	252.416	ug/l	#	100
77) Bromobenzene	12.523	156	1021449	155.568	ug/l		99
78) n-propylbenzene	12.591	91	5048012	154.058	ug/l		99
79) 2-Chlorotoluene	12.676	91	2878647	153.331	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	3469329	155.973	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	245958	158.203	ug/l		97
82) 4-Chlorotoluene	12.773	91	2981042	153.063	ug/l		99
83) tert-Butylbenzene	12.993	119	3161475	157.371	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	3501626	158.143	ug/l		100
85) sec-Butylbenzene	13.170	105	4541629	153.897	ug/l		99
86) p-Isopropyltoluene	13.286	119	3918969	159.987	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	2049060	158.251	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	1941716	151.172	ug/l		98
89) n-Butylbenzene	13.609	91	3578272	159.048	ug/l		100
90) Hexachloroethane	13.871	117	772603	154.073	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	1754100	154.469	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	114505	156.498	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	1117401	166.397	ug/l		98
94) Hexachlorobutadiene	15.017	225	589351	149.352	ug/l		99
95) Naphthalene	15.139	128	2094983	182.954	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	975366	168.557	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

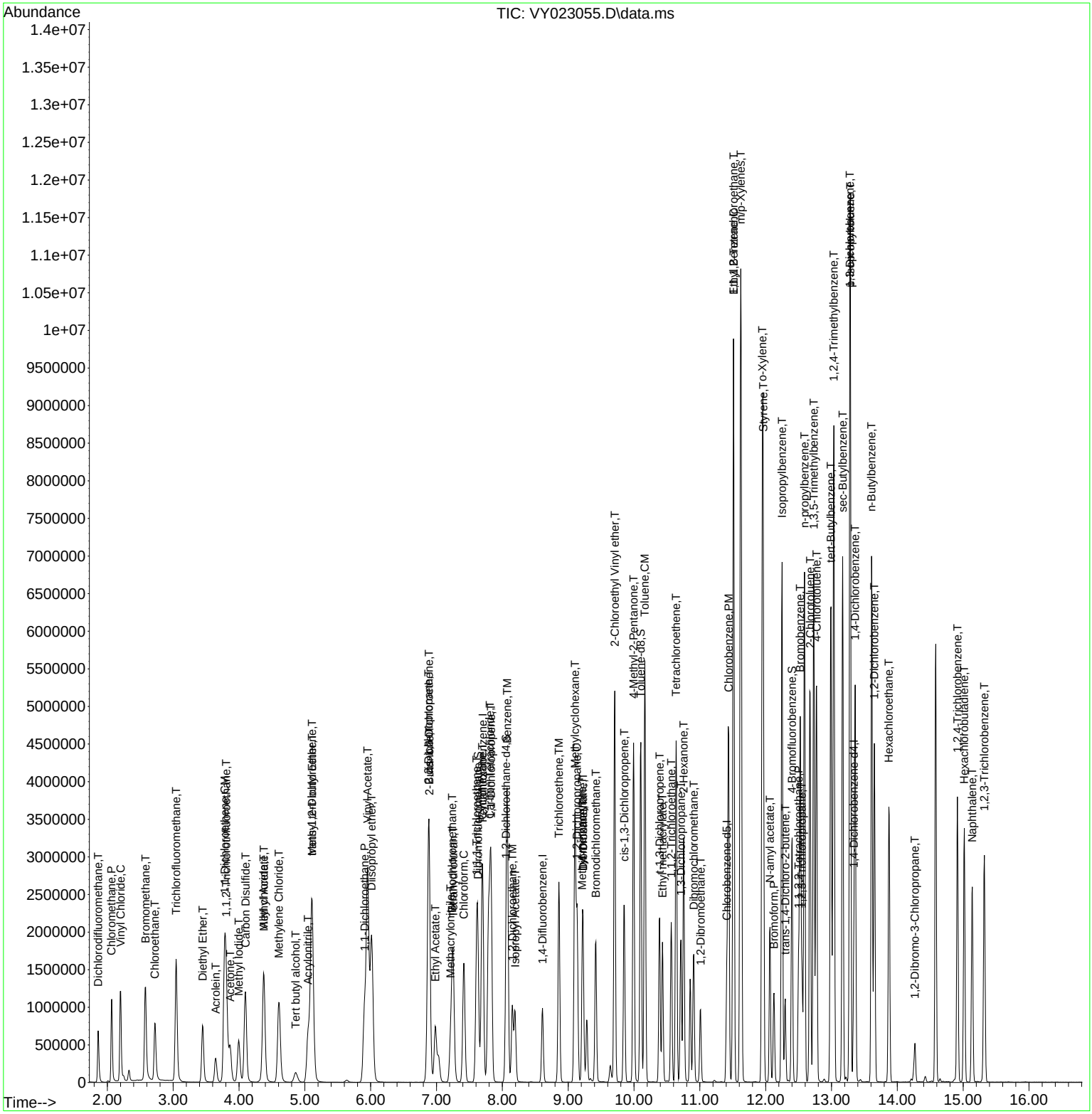
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

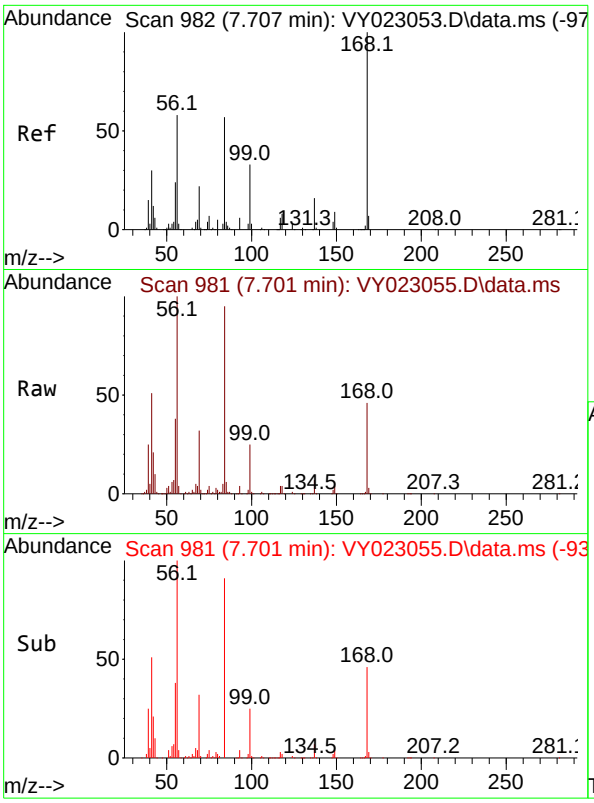
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



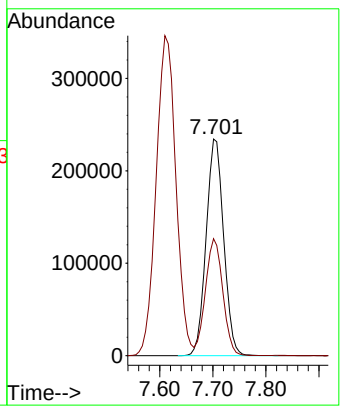


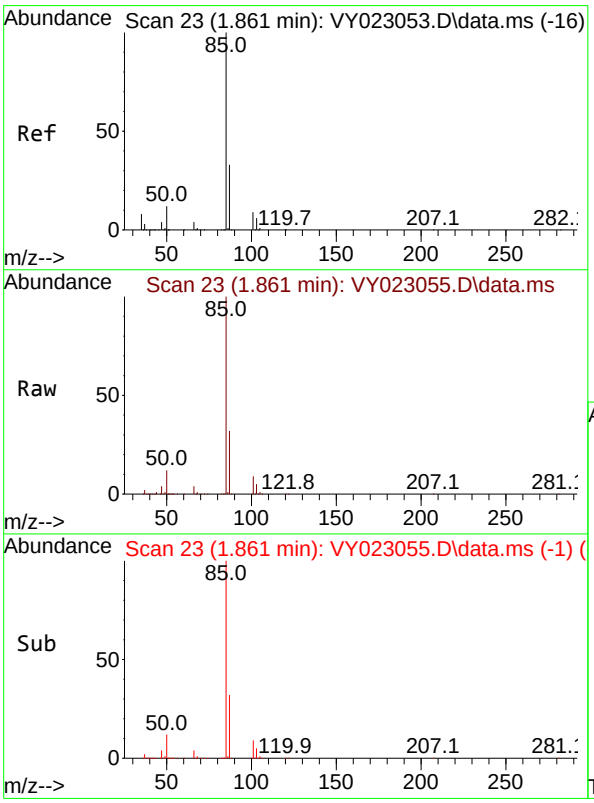
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 538712

Ion	Ratio	Lower	Upper
168	100		
99	53.8	42.8	64.2

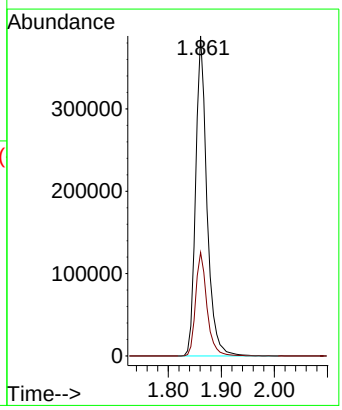


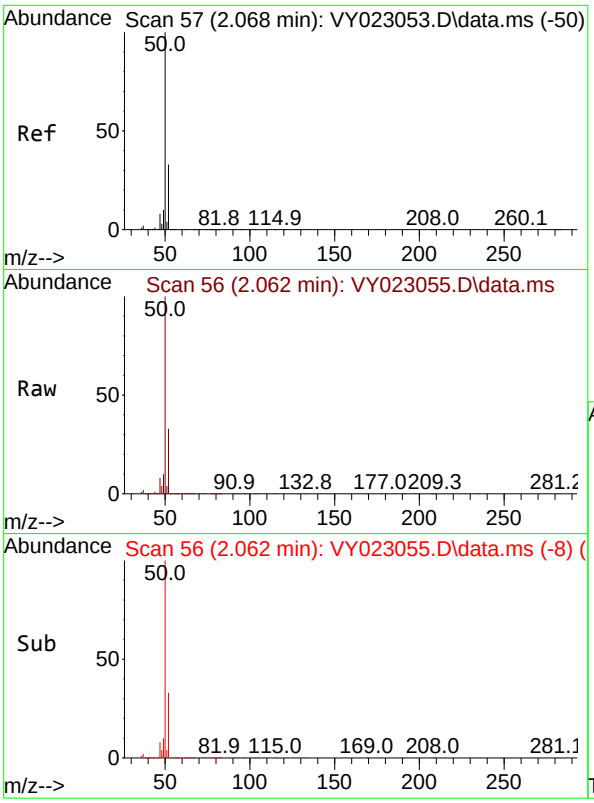


#2
Dichlorodifluoromethane
Concen: 130.017 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 85 Resp: 571723

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



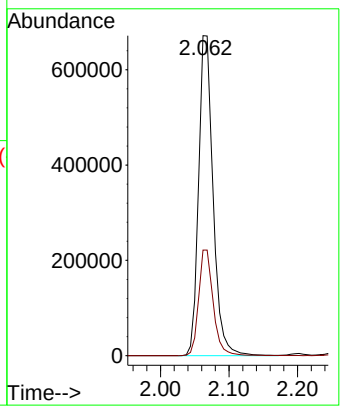


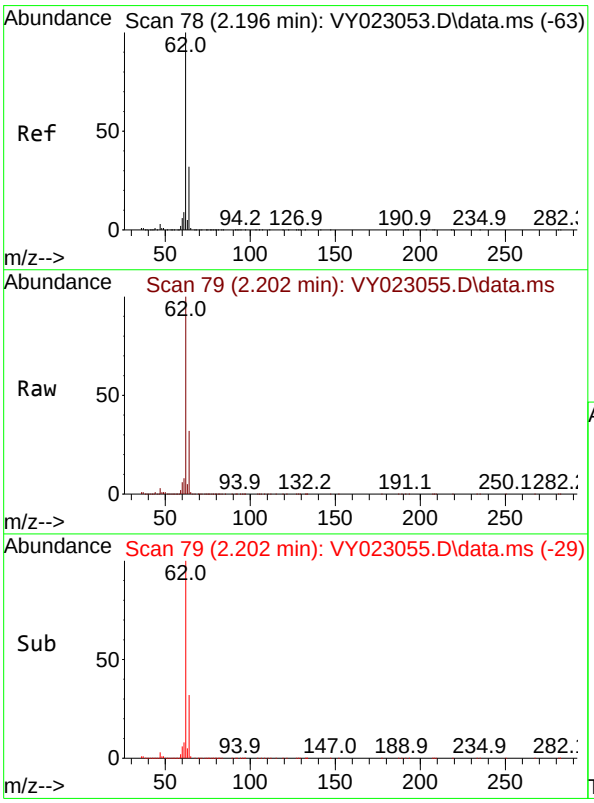
#3
Chloromethane
Concen: 139.173 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 991215

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1

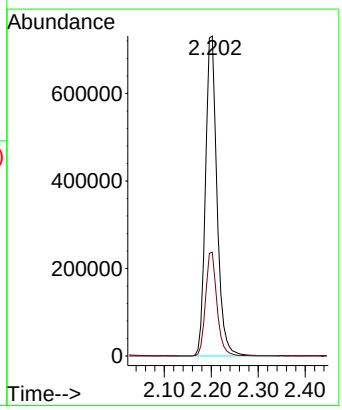


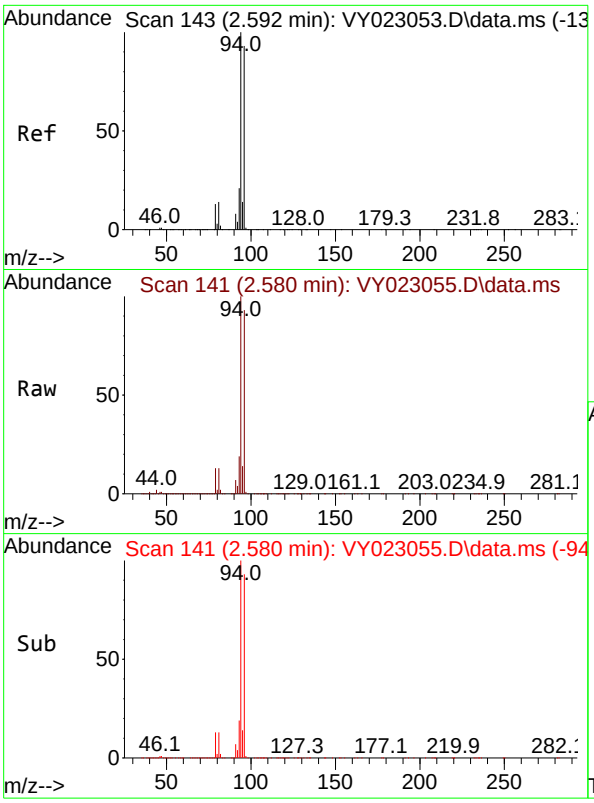


#4
Vinyl Chloride
Concen: 140.692 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 1238646

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0



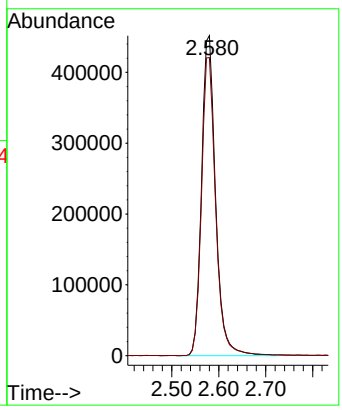


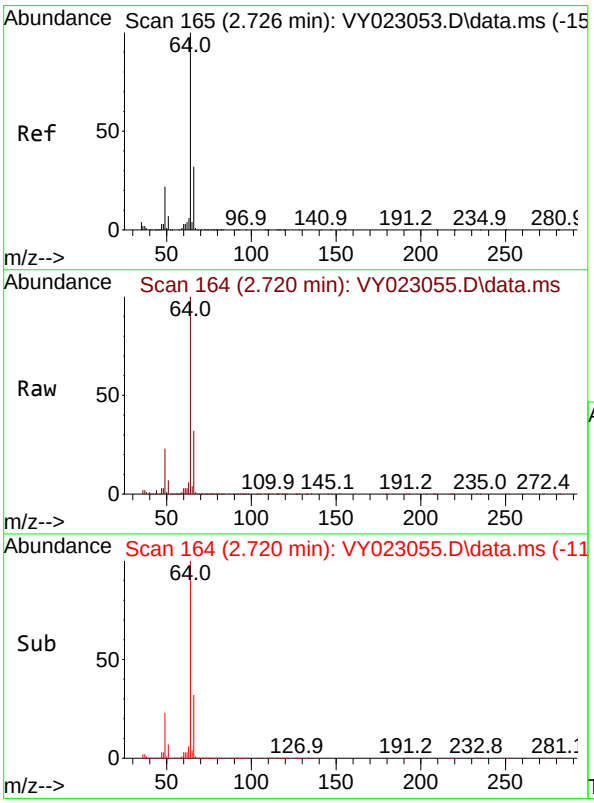
#5
Bromomethane
Concen: 142.770 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 938717

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	112.0

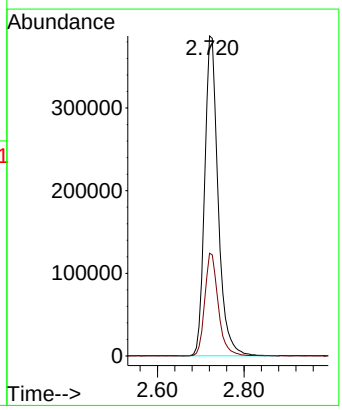


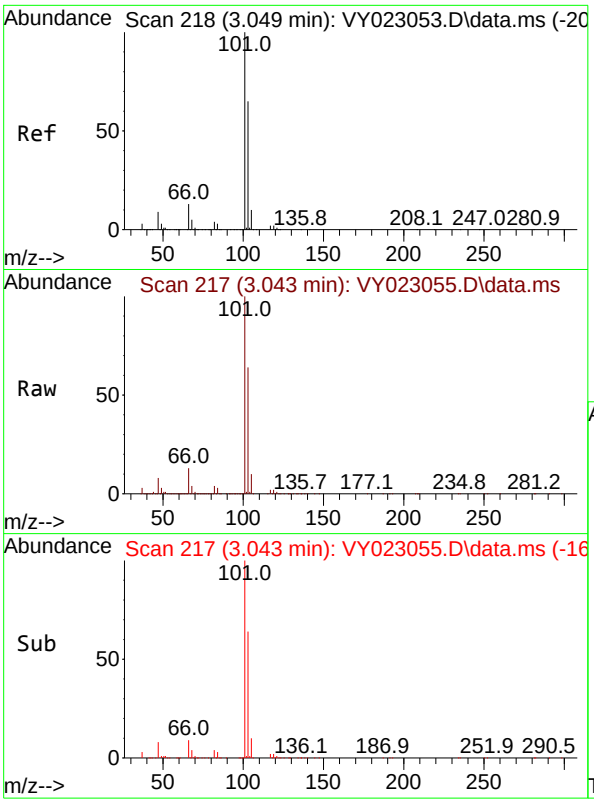


#6
Chloroethane
Concen: 142.581 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 64 Resp: 834547

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6



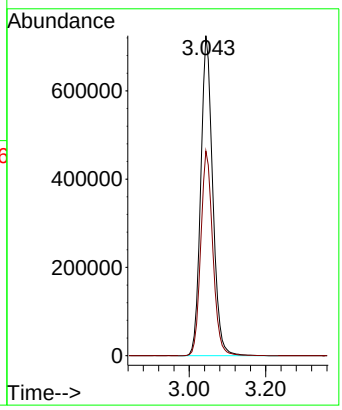


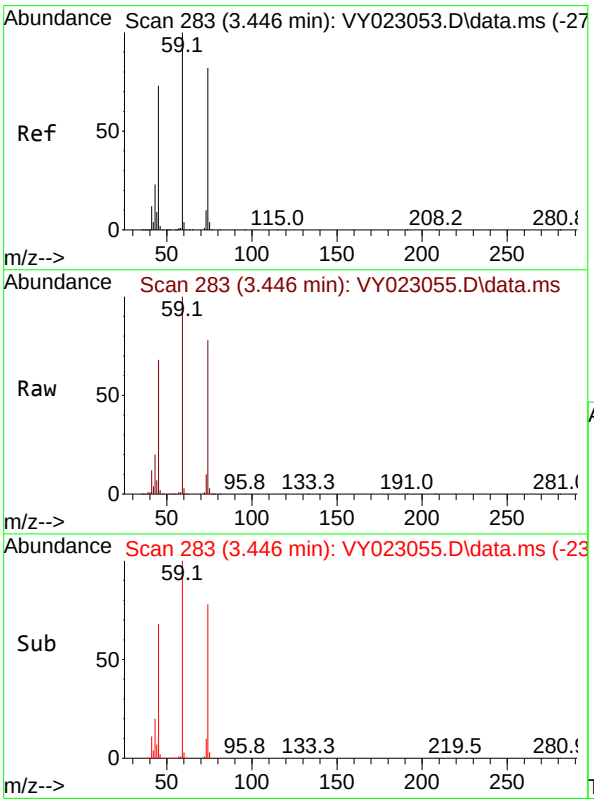
#7
Trichlorofluoromethane
Concen: 147.051 ug/l
RT: 3.043 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 1574213

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.9	77.9

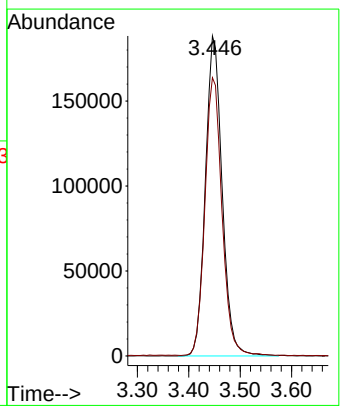


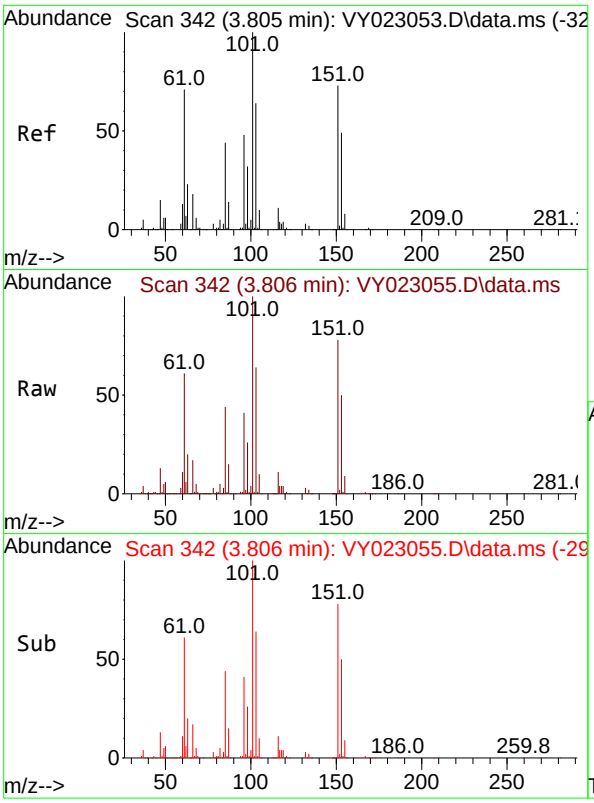


#8
Diethyl Ether
Concen: 150.496 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 74 Resp: 426242

Ion	Ratio	Lower	Upper
74	100		
45	88.9	44.4	133.2



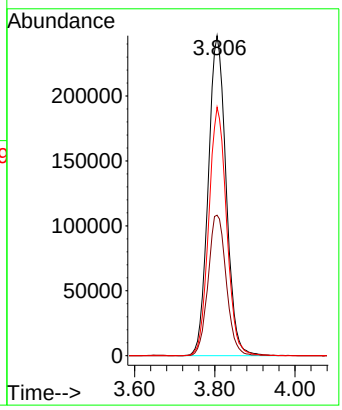


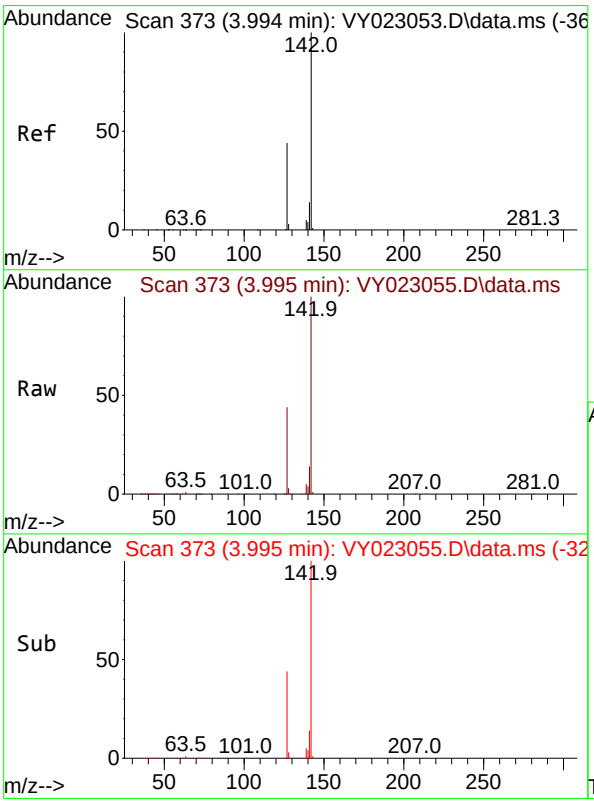
#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.479 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 763053

Ion	Ratio	Lower	Upper
101	100		
85	44.7	36.3	54.5
151	77.4	61.5	92.3

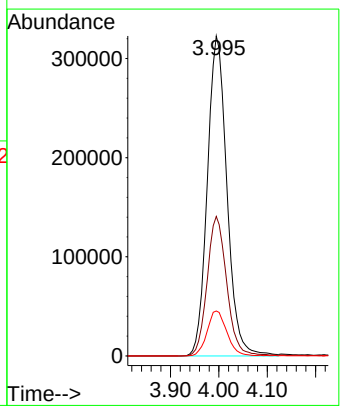


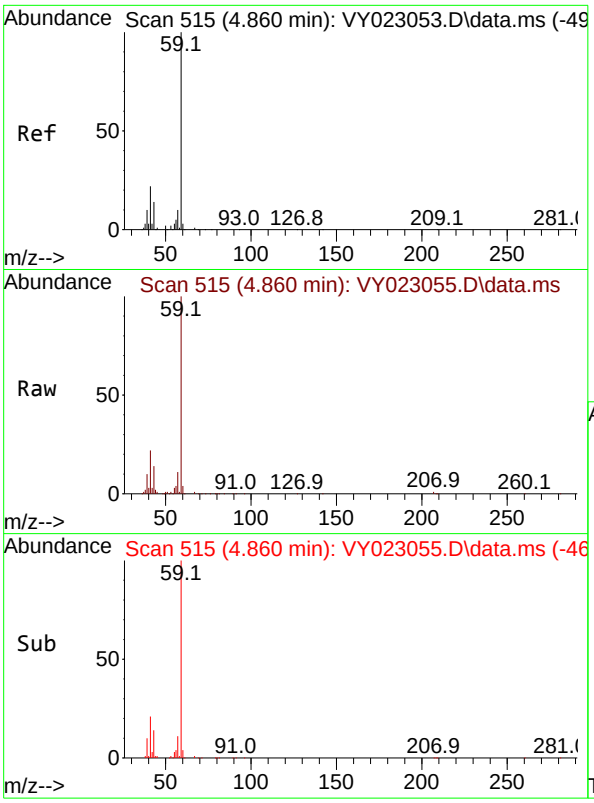


#10
Methyl Iodide
Concen: 159.567 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:142 Resp: 909378

Ion	Ratio	Lower	Upper
142	100		
127	43.7	34.9	52.3
141	14.2	11.3	16.9



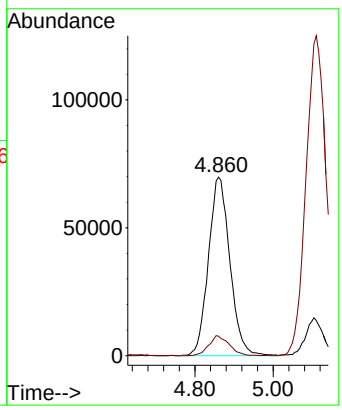


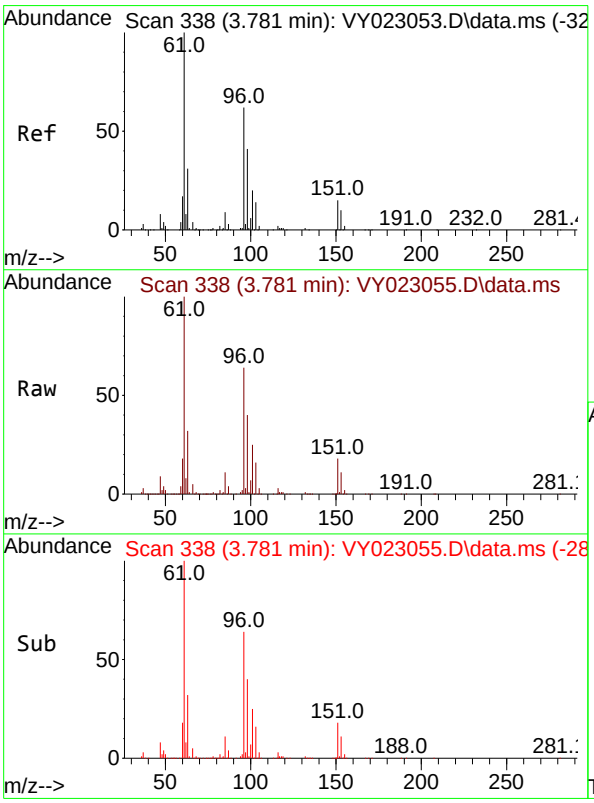
#11
Tert butyl alcohol
Concen: 753.967 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 265243

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0

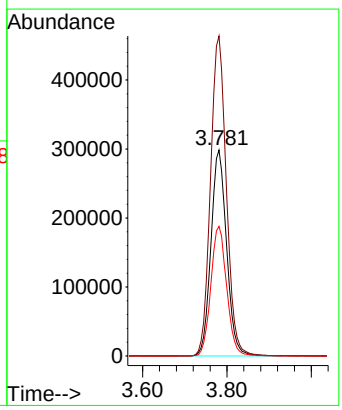


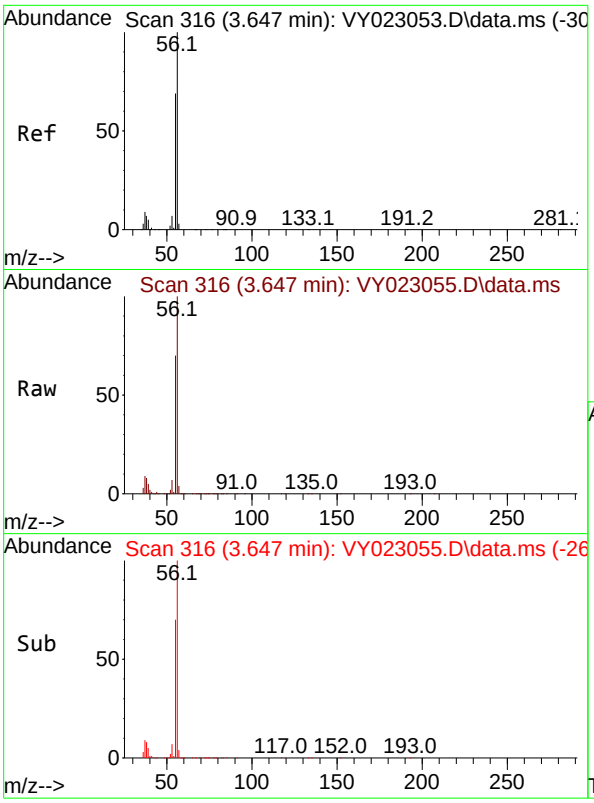


#12
1,1-Dichloroethene
Concen: 147.960 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 768098

Ion	Ratio	Lower	Upper
96	100		
61	155.4	129.4	194.2
98	62.9	52.8	79.2



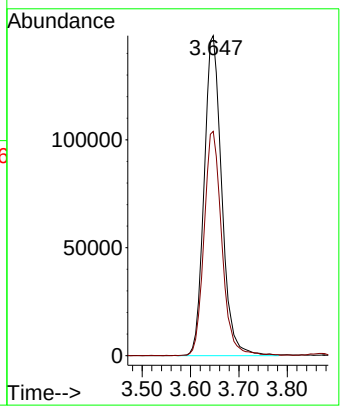


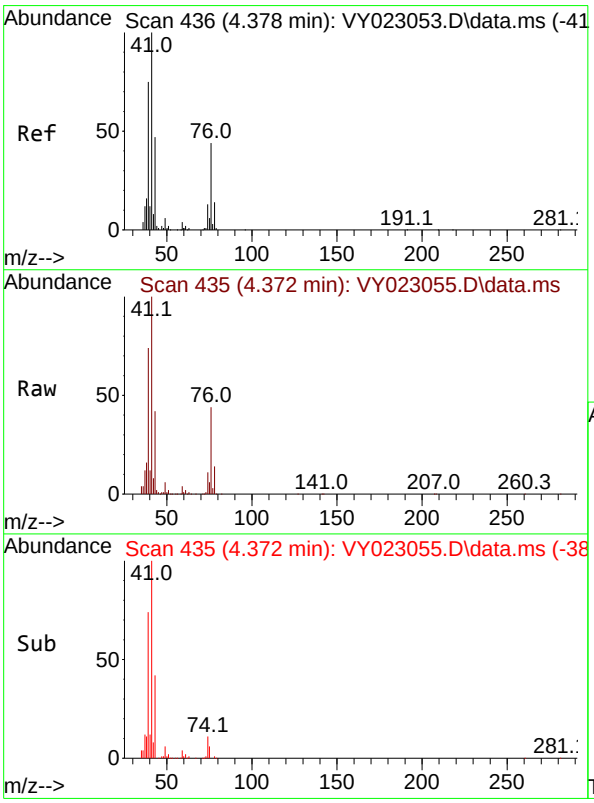
#13
Acrolein
Concen: 727.070 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 374594

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8

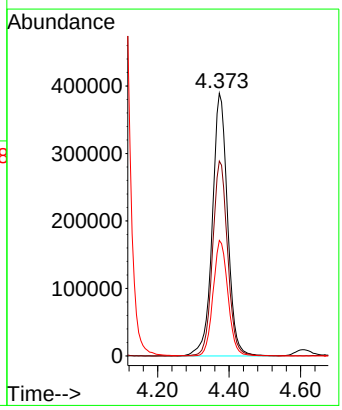


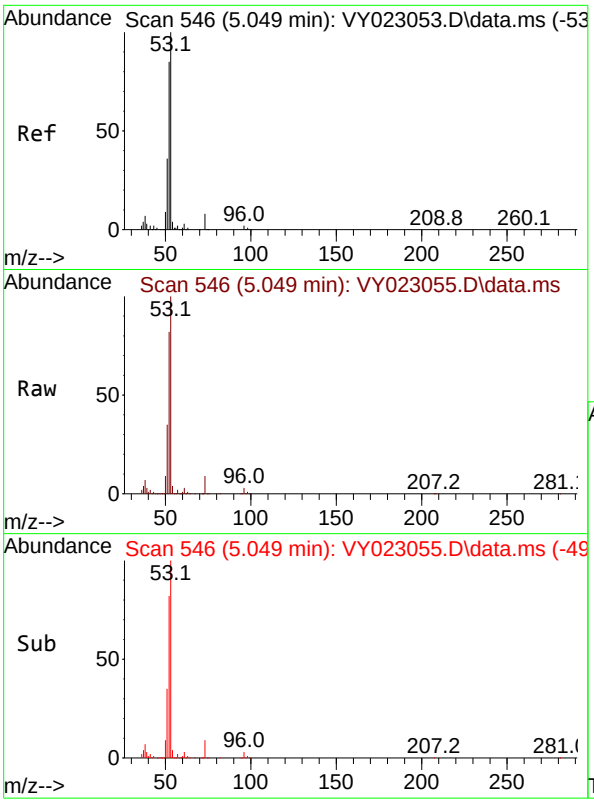


#14
Allyl chloride
Concen: 150.707 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 1151194

Ion	Ratio	Lower	Upper
41	100		
39	73.2	59.8	89.6
76	42.6	33.7	50.5



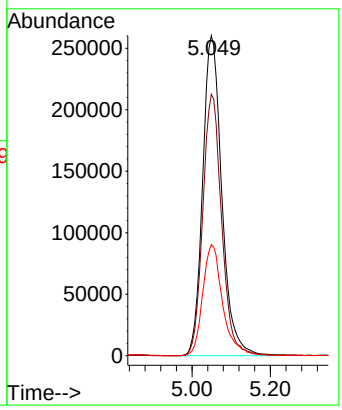


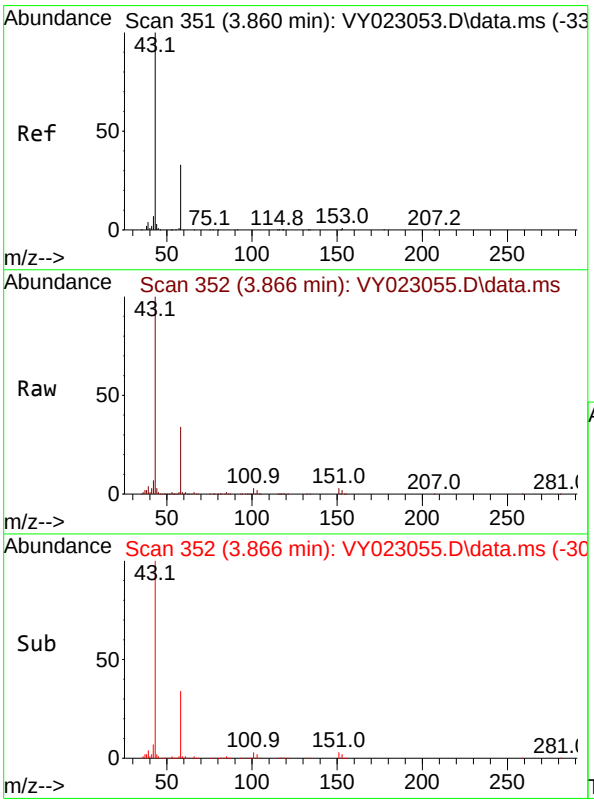
#15
Acrylonitrile
Concen: 767.115 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 883293

Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.3	97.9
51	36.2	29.5	44.3

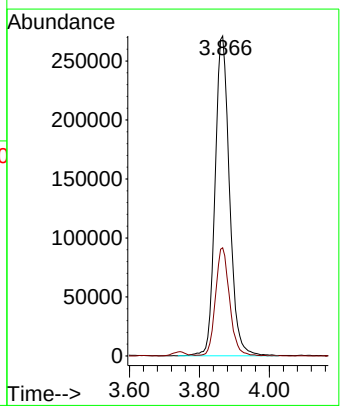


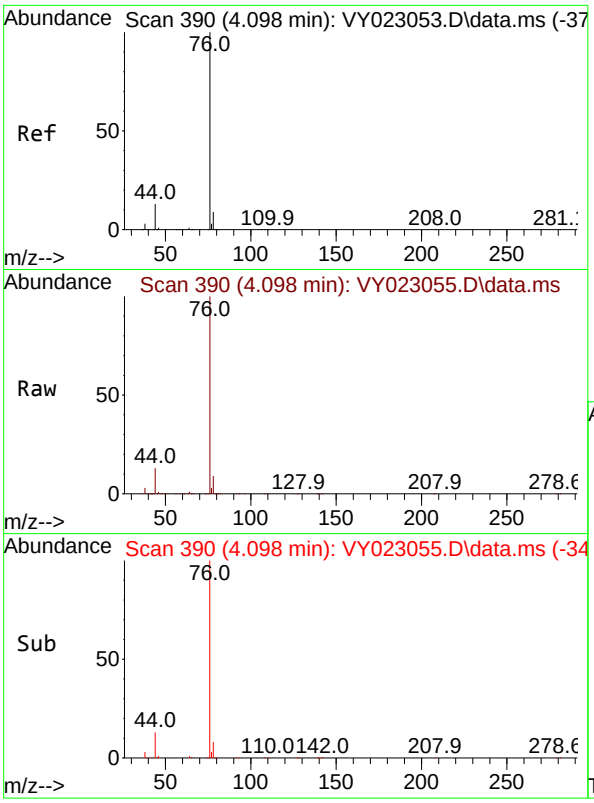


#16
Acetone
Concen: 699.133 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 777658

Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.1	40.7



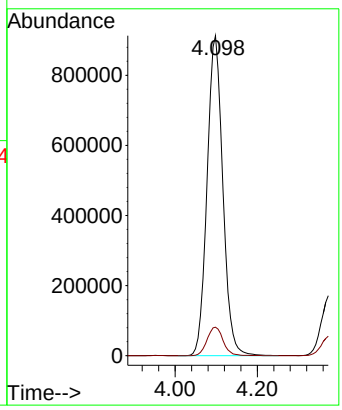


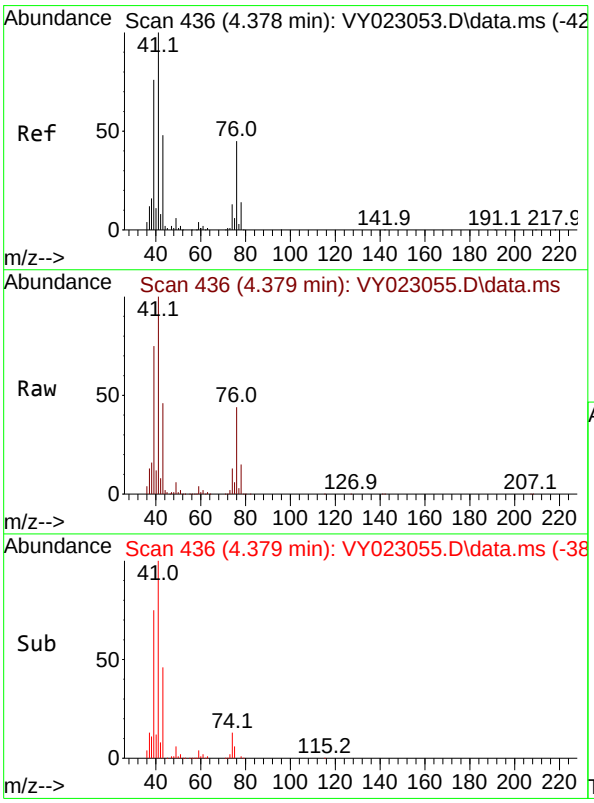
#17
Carbon Disulfide
Concen: 143.357 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 2426564

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

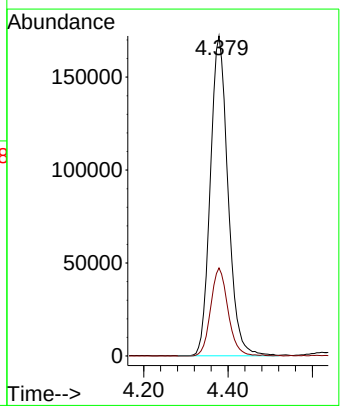


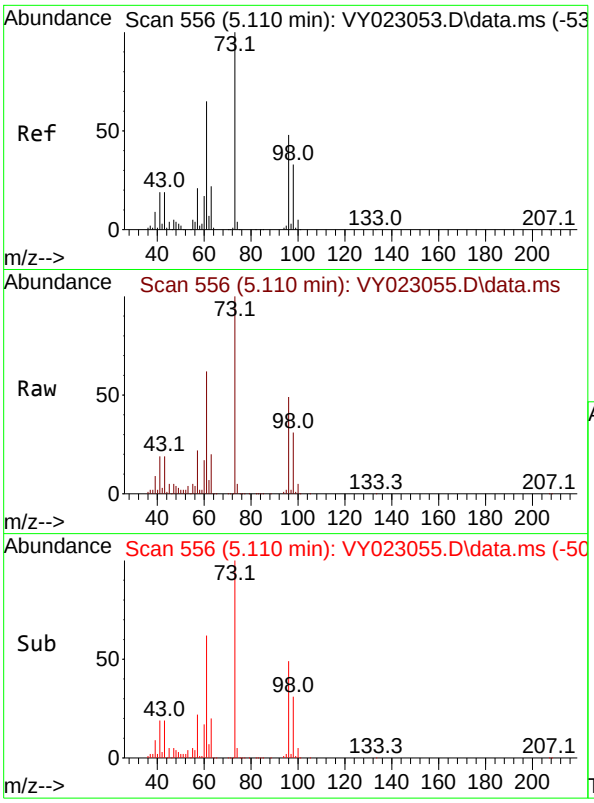


#18
Methyl Acetate
Concen: 151.100 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 500151

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8



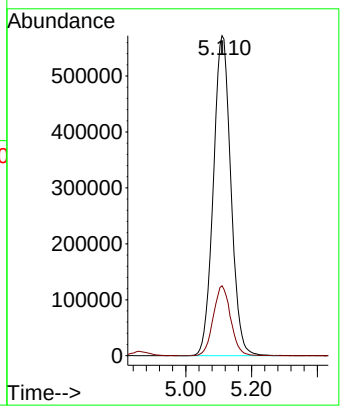


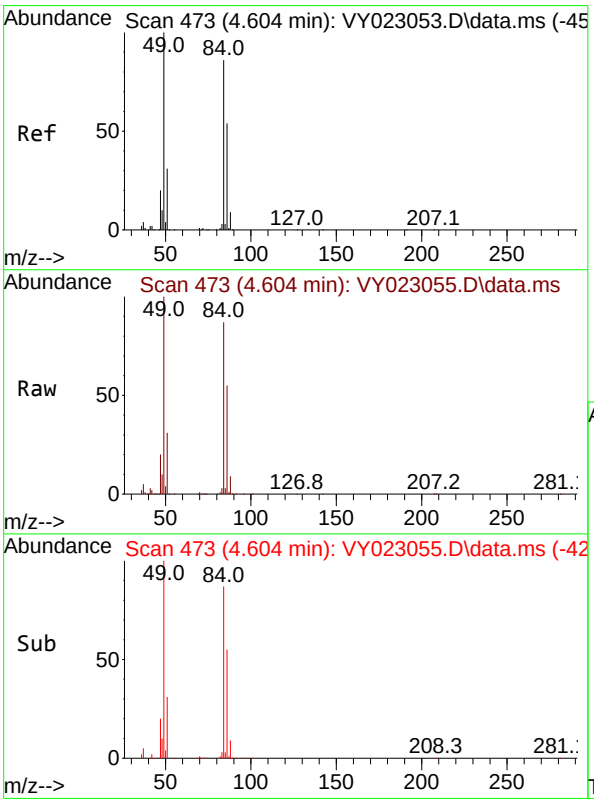
#19
Methyl tert-butyl Ether
Concen: 157.144 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 2113920

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7

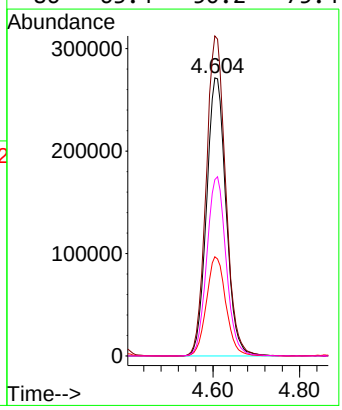


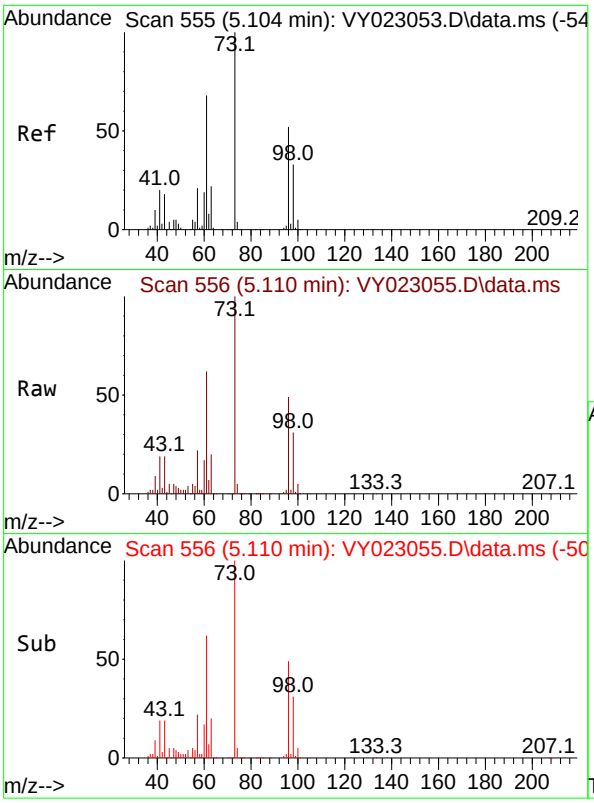


#20
Methylene Chloride
Concen: 152.064 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 84 Resp: 846955

Ion	Ratio	Lower	Upper
84	100		
49	115.1	93.0	139.6
51	35.7	29.0	43.4
86	63.4	50.2	75.4



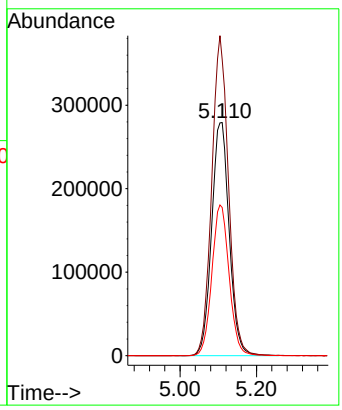


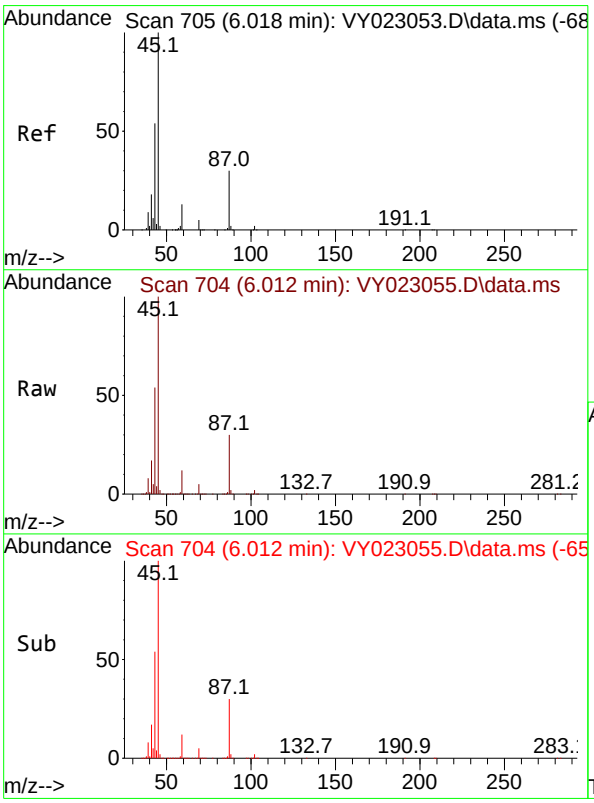
#21
trans-1,2-Dichloroethene
Concen: 152.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 889517

Ion	Ratio	Lower	Upper
96	100		
61	127.0	104.8	157.2
98	63.5	50.1	75.1

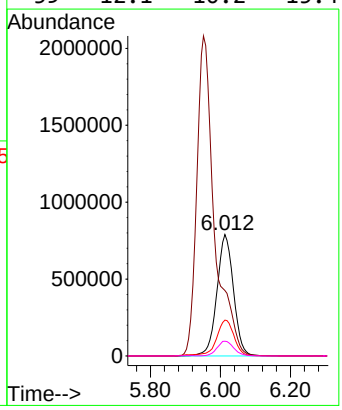


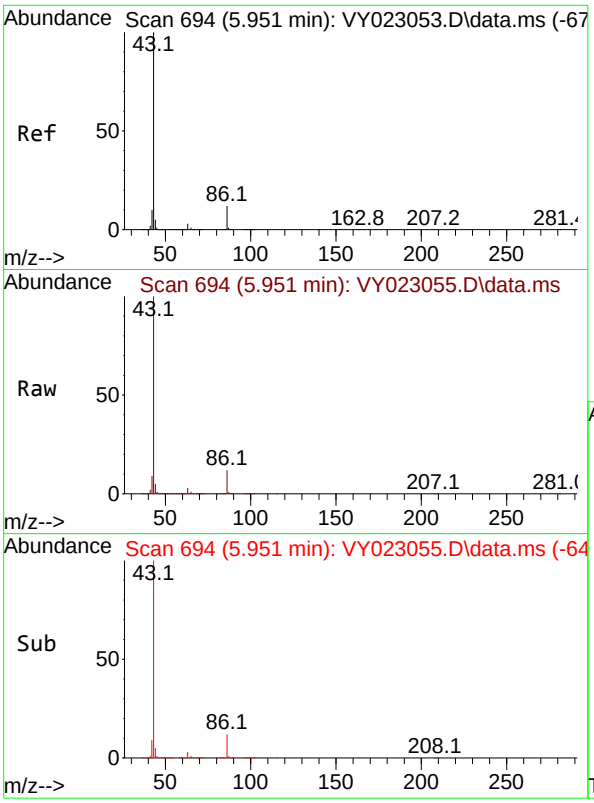


#22
Diisopropyl ether
Concen: 156.307 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 45 Resp: 2594499

Ion	Ratio	Lower	Upper
45	100		
43	53.8	43.4	65.0
87	29.5	24.4	36.6
59	12.1	10.2	15.4



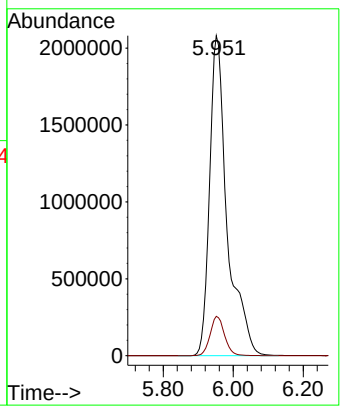


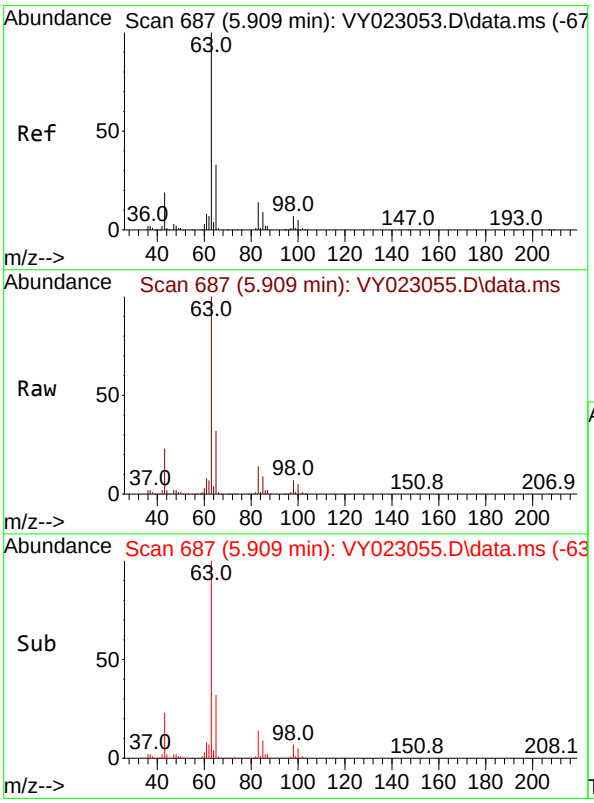
#23
Vinyl Acetate
Concen: 791.851 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 7267824

Ion	Ratio	Lower	Upper
43	100		
86	12.3	9.6	14.4

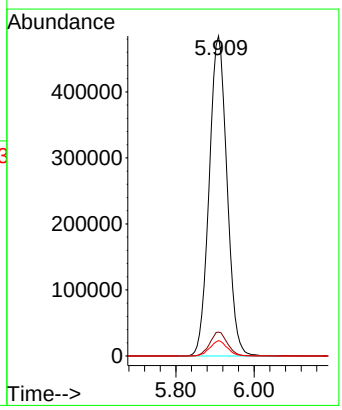


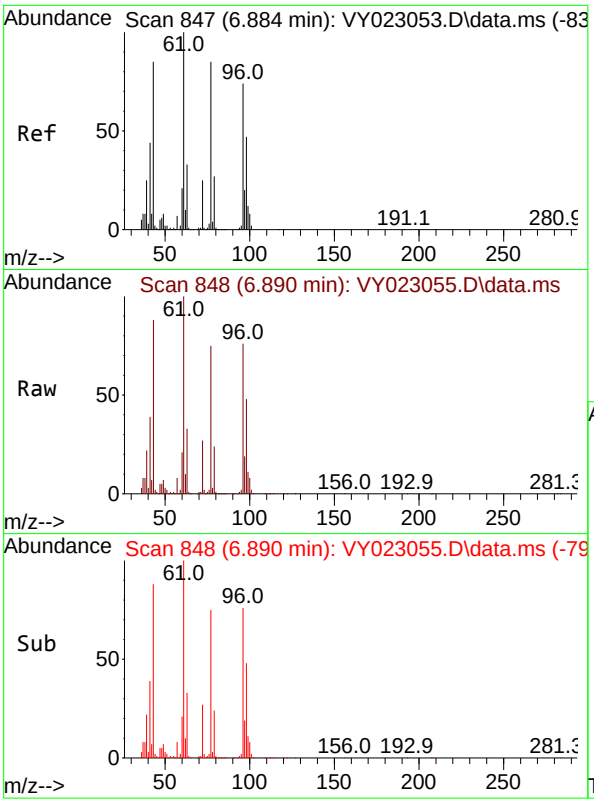


#24
1,1-Dichloroethane
Concen: 150.534 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 1527663

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.8	2.4	7.1



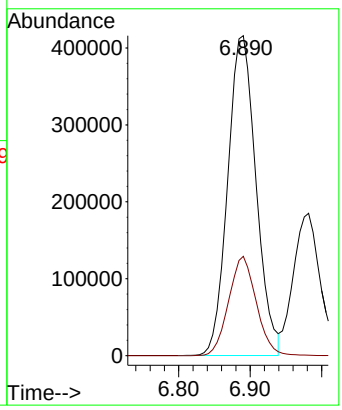


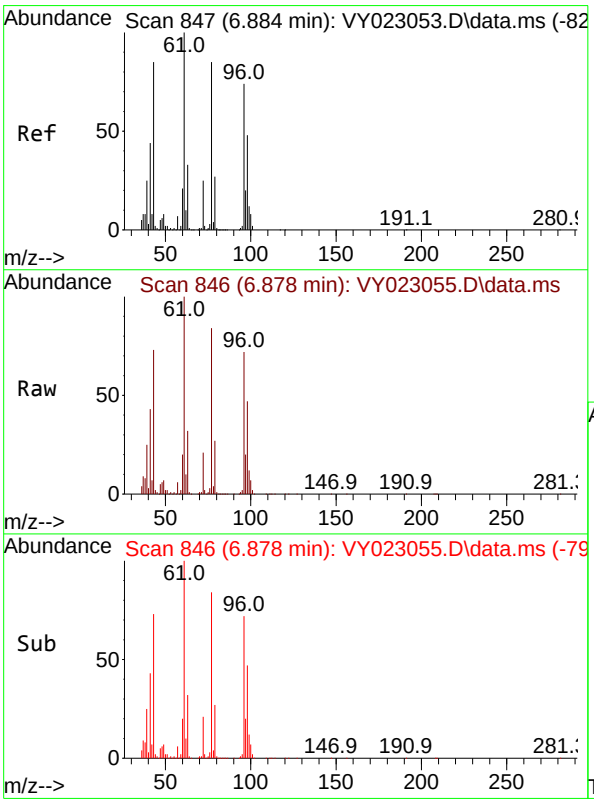
#25
2-Butanone
Concen: 756.289 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1144112

Ion	Ratio	Lower	Upper
43	100		
72	31.1	23.5	35.3

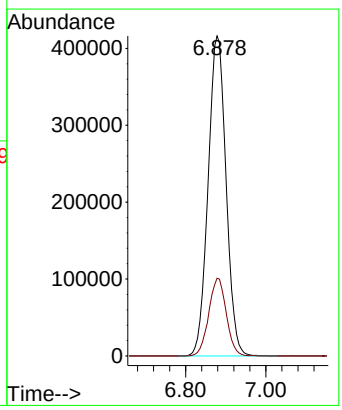


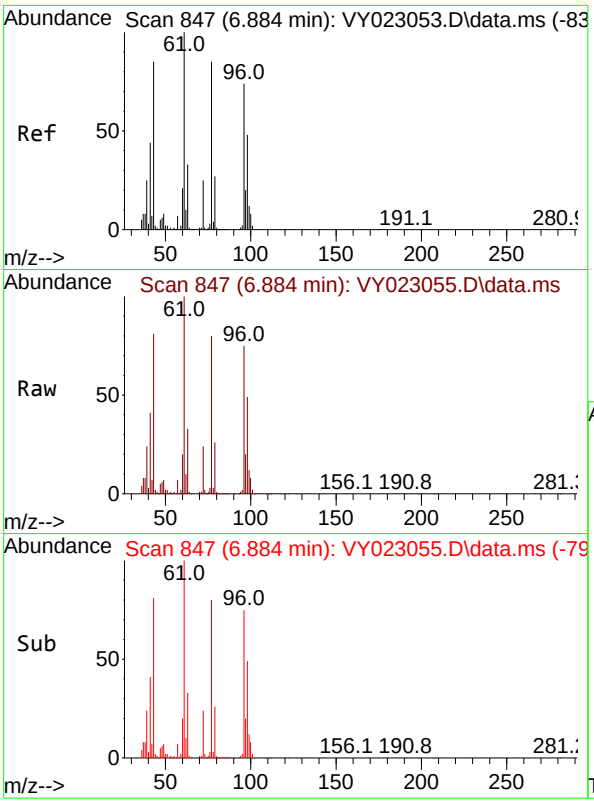


#26
2,2-Dichloropropane
Concen: 147.663 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 77 Resp: 1293043

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8



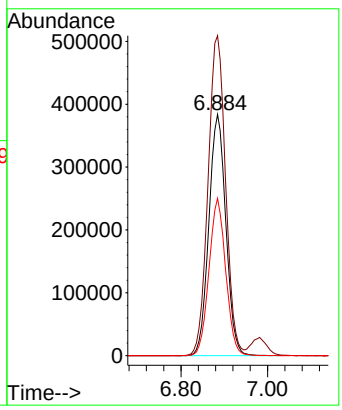


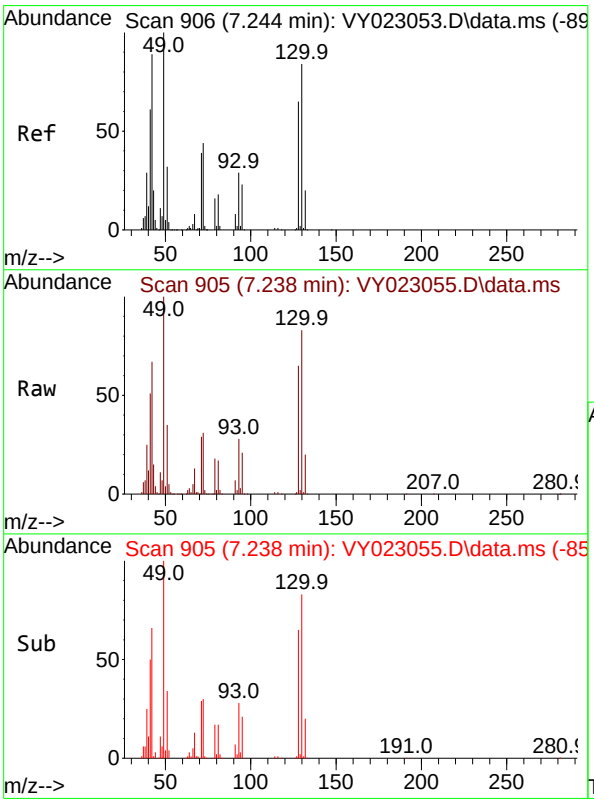
#27
cis-1,2-Dichloroethene
Concen: 155.348 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 1047717

Ion	Ratio	Lower	Upper
96	100		
61	136.6	0.0	278.6
98	64.1	0.0	130.4

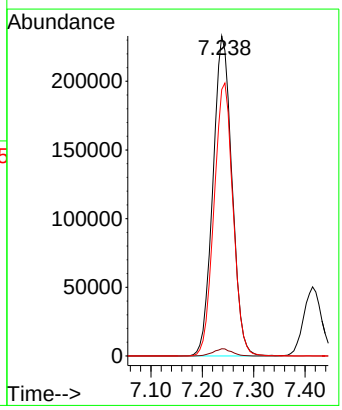


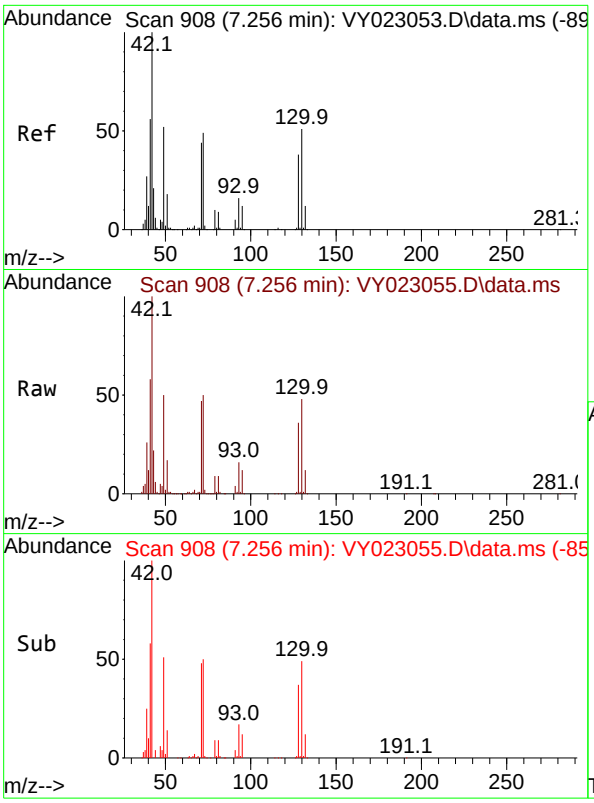


#28
Bromochloromethane
Concen: 148.984 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 49 Resp: 599841

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	84.9	66.4	99.6



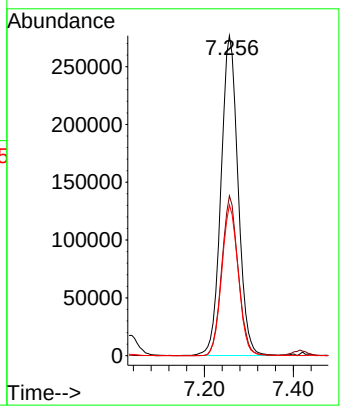


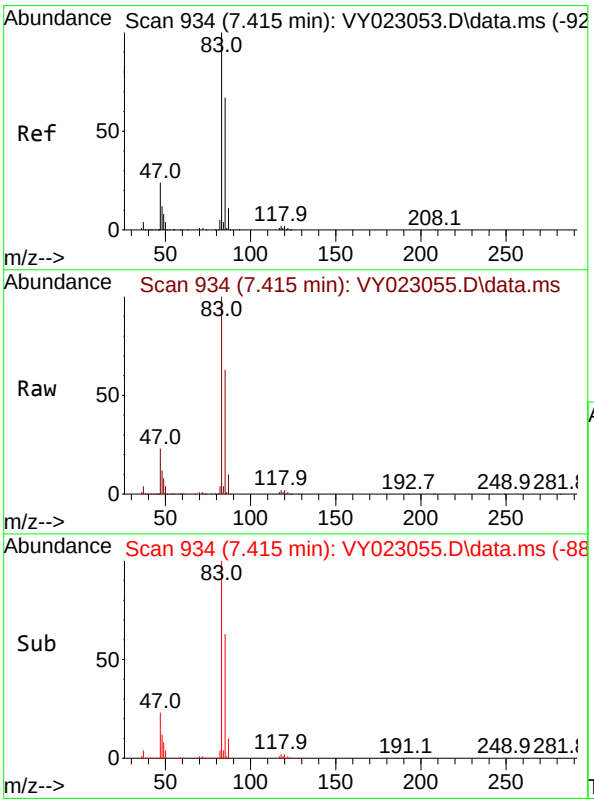
#29
Tetrahydrofuran
Concen: 783.186 ug/l
RT: 7.256 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 734408

Ion	Ratio	Lower	Upper
42	100		
72	48.3	39.4	59.2
71	45.8	36.5	54.7

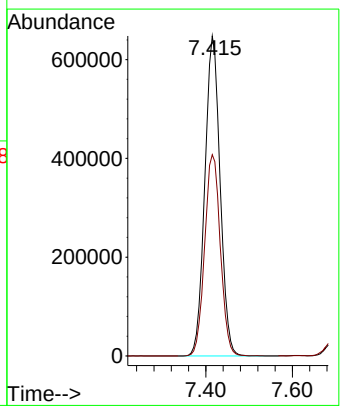


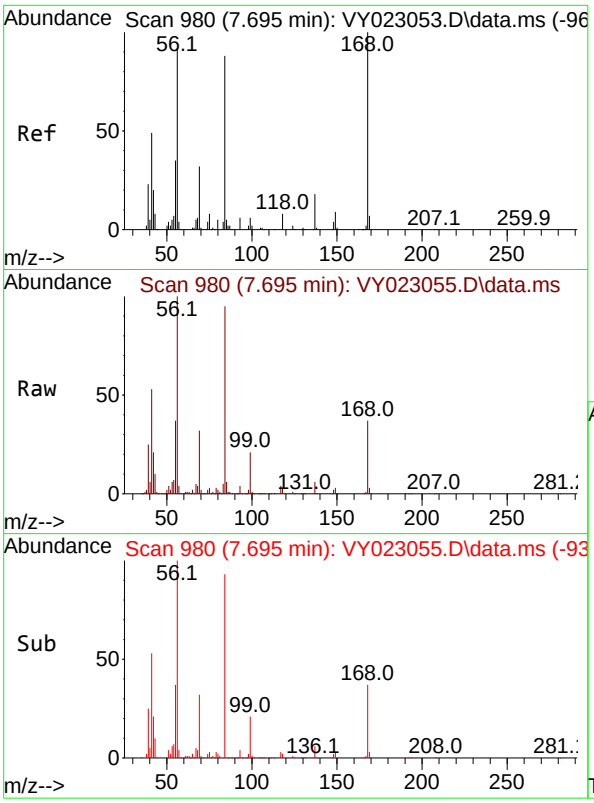


#30
Chloroform
Concen: 151.505 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 1585686

Ion	Ratio	Lower	Upper
83	100		
85	62.9	53.8	80.8



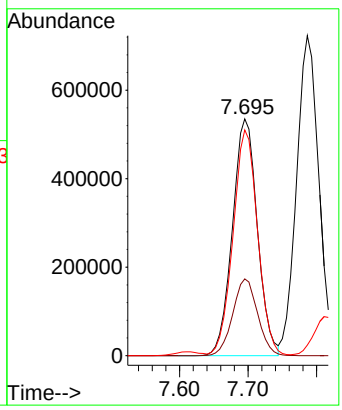


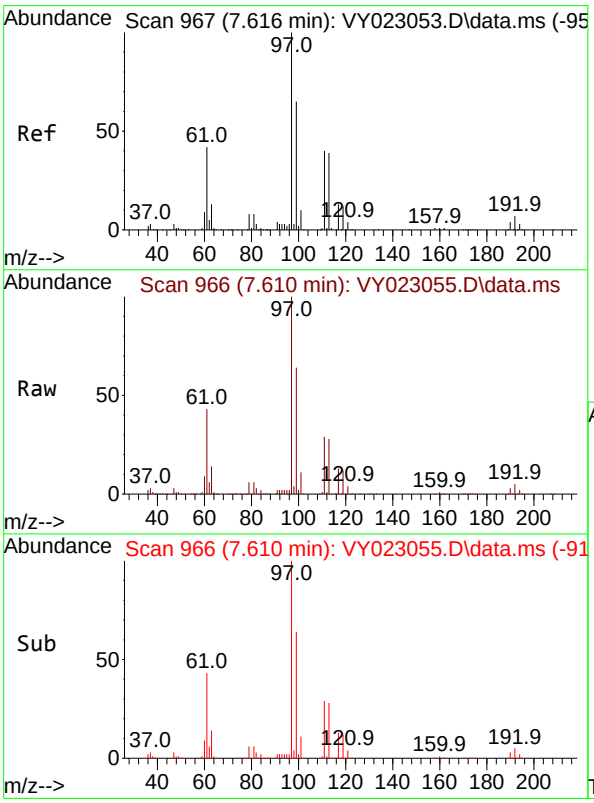
#31
Cyclohexane
Concen: 141.586 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 1354021

Ion	Ratio	Lower	Upper
56	100		
69	32.4	28.2	42.2
84	94.2	76.6	114.8

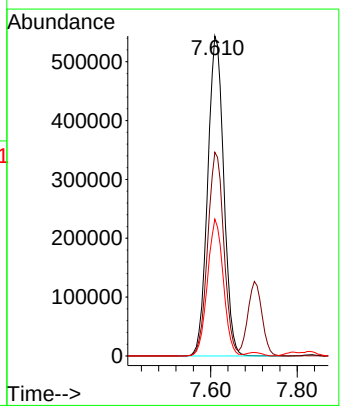


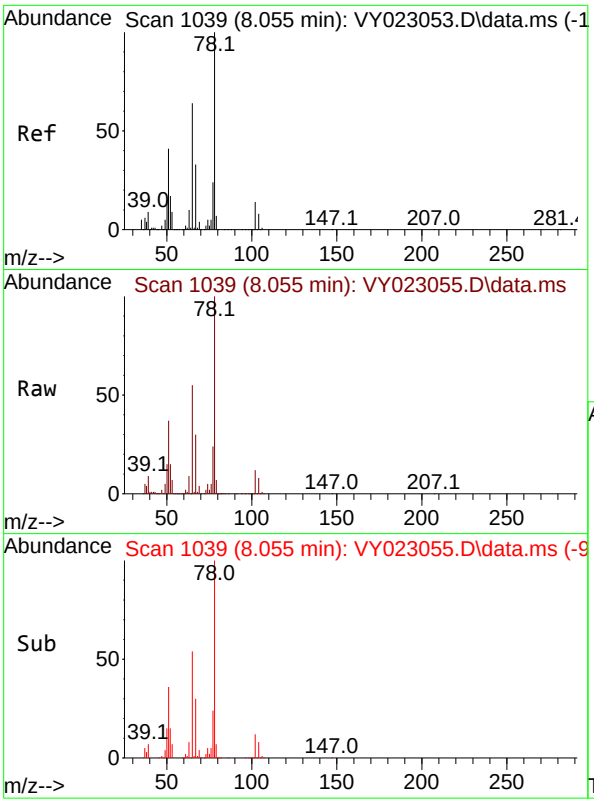


#32
1,1,1-Trichloroethane
Concen: 150.372 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 97 Resp: 1396470

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.6	77.4
61	42.4	34.2	51.2



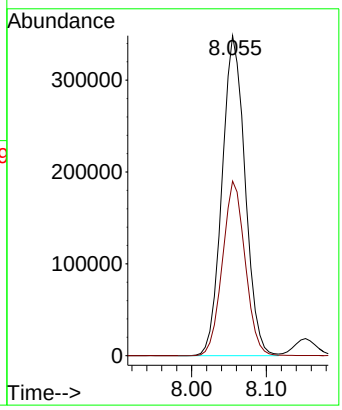


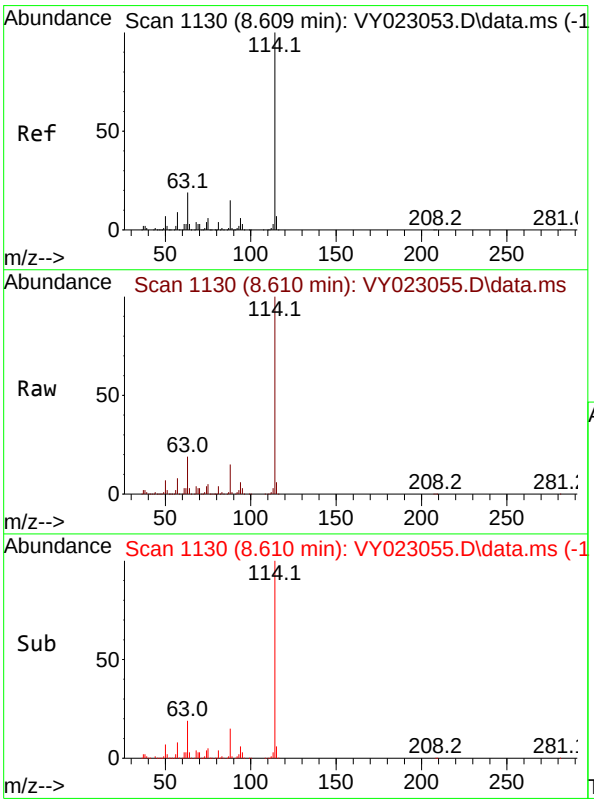
#33
1,2-Dichloroethane-d4
Concen: 145.480 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 746936

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	106.8

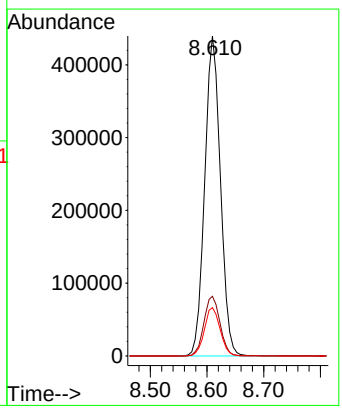


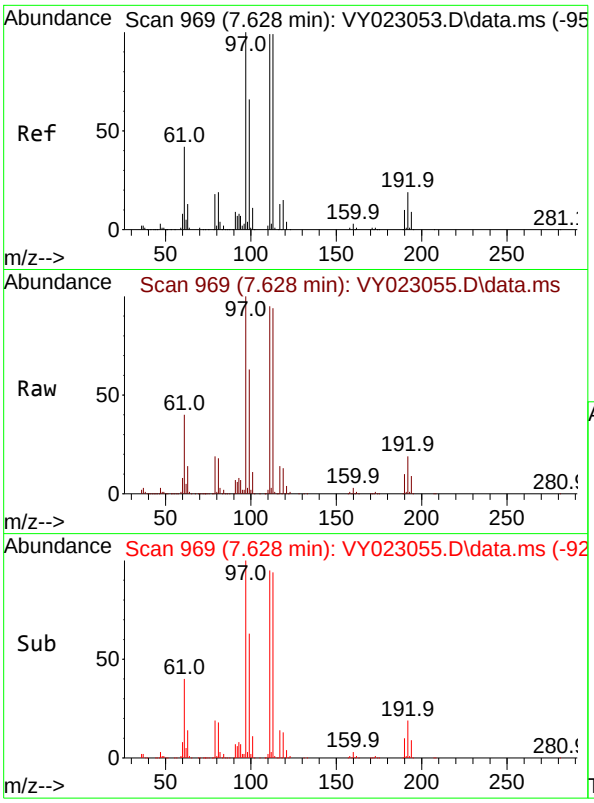


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:114 Resp: 844092

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	15.1	0.0	30.0



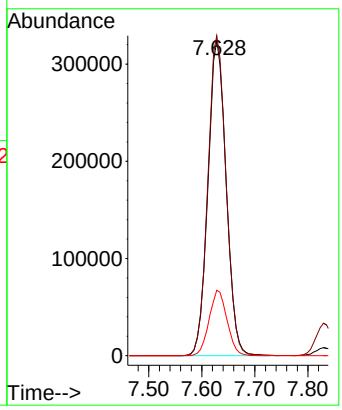


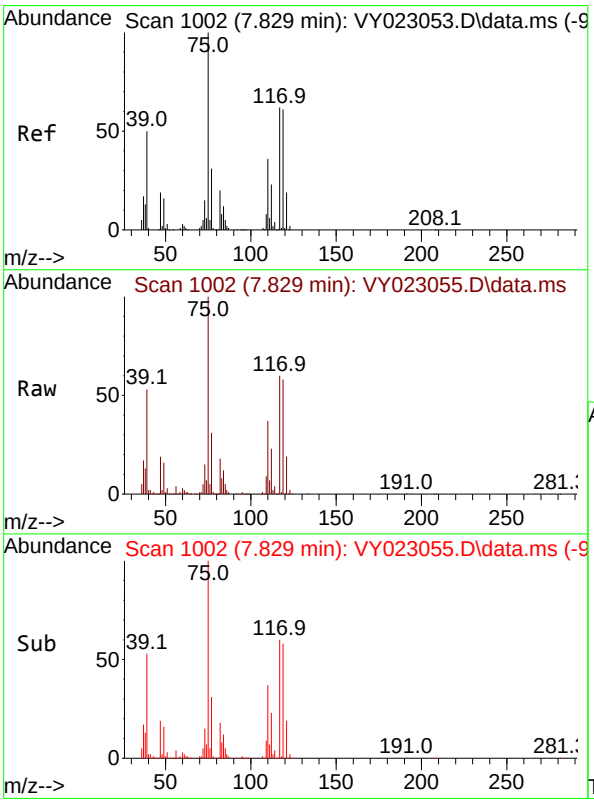
#35
Dibromofluoromethane
Concen: 152.837 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 771944

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.1	121.7
192	20.4	16.2	24.4

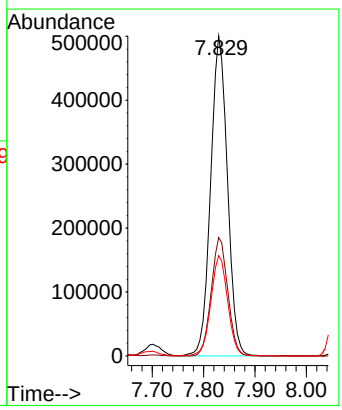


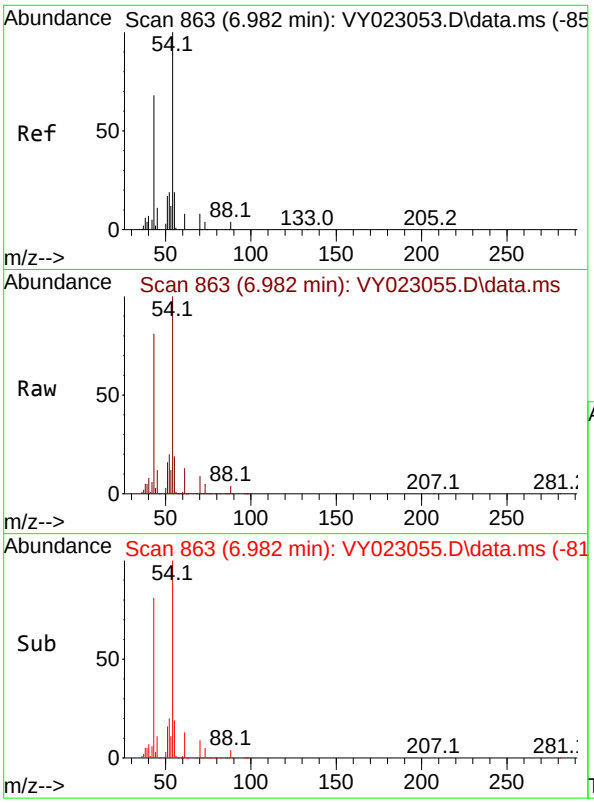


#36
1,1-Dichloropropene
Concen: 150.850 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1132306

Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.1	54.4
77	31.5	24.6	37.0



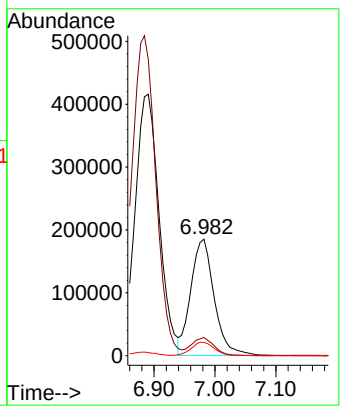


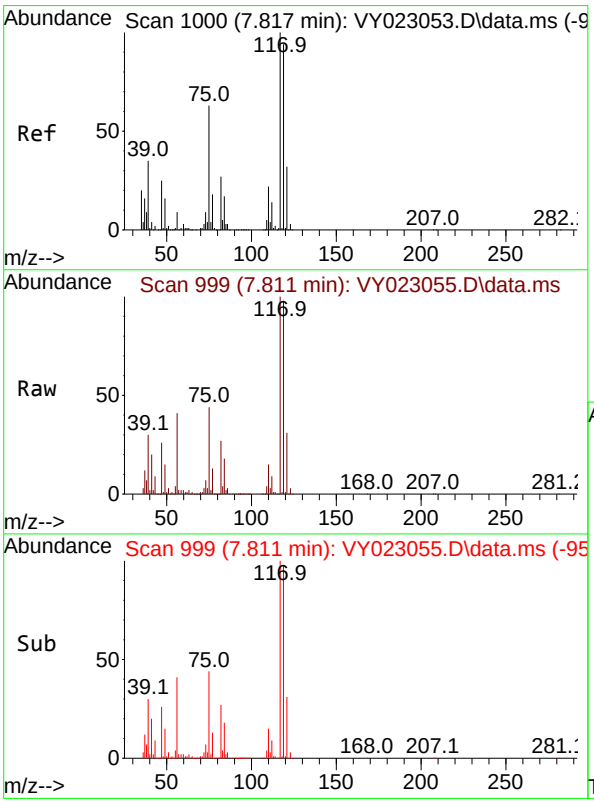
#37
Ethyl Acetate
Concen: 156.788 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 494371

Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.9	17.9
70	11.4	8.8	13.2

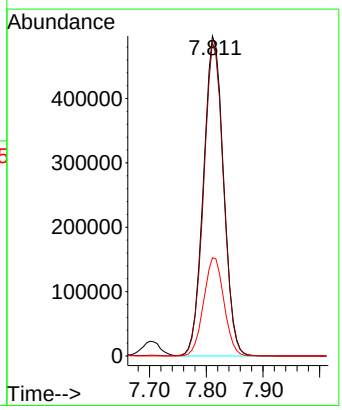


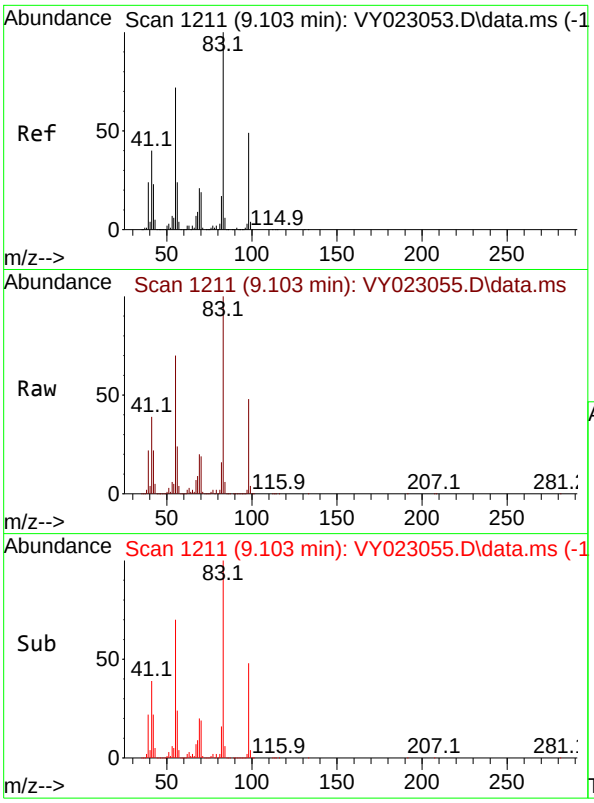


#38
Carbon Tetrachloride
Concen: 150.478 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 1226800

Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.6	113.4
121	30.7	25.8	38.8



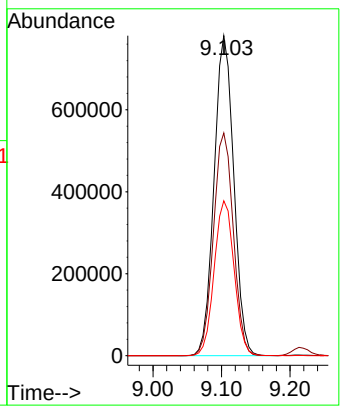


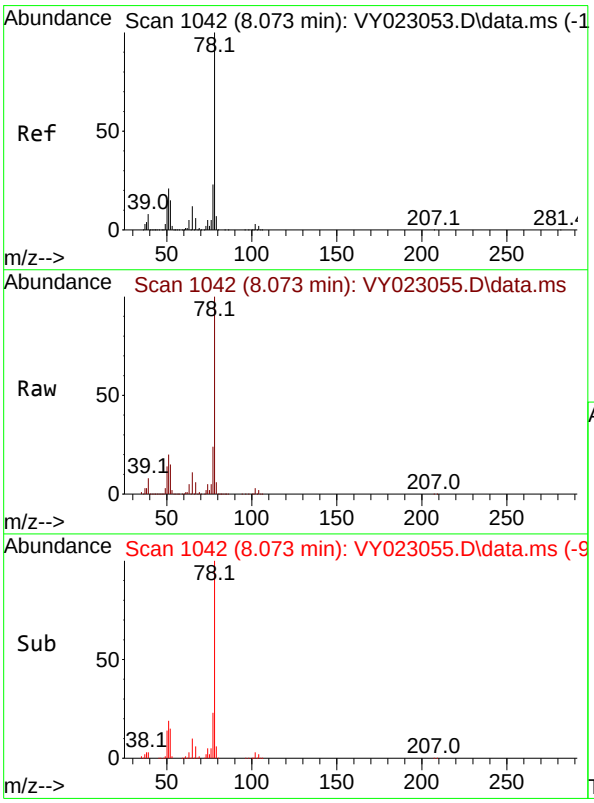
#39
Methylcyclohexane
Concen: 157.417 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 1556004

Ion	Ratio	Lower	Upper
83	100		
55	69.6	57.6	86.4
98	48.4	39.2	58.8

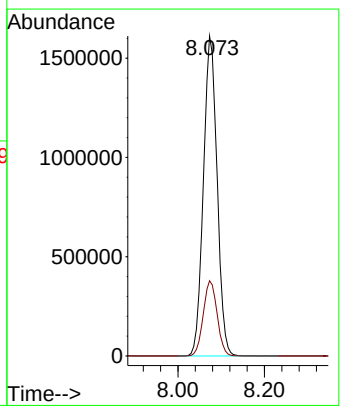


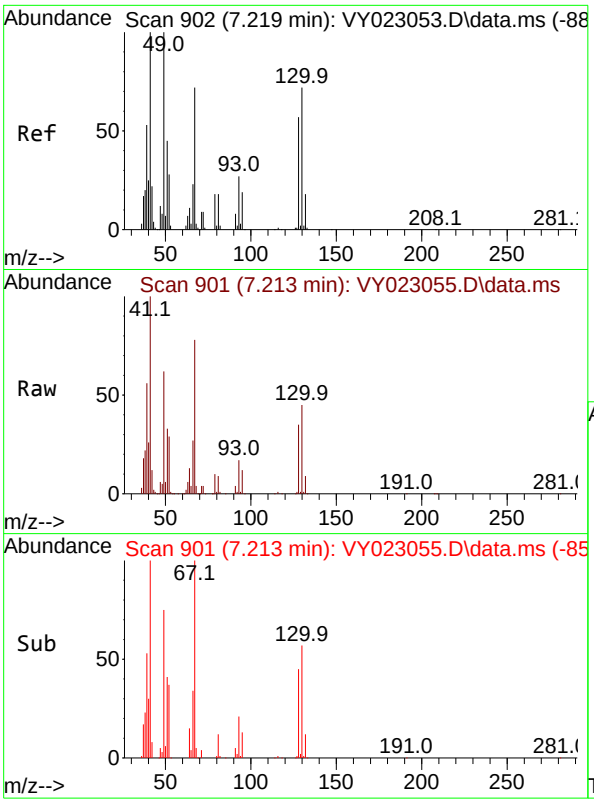


#40
Benzene
Concen: 152.720 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 78 Resp: 3533174

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0



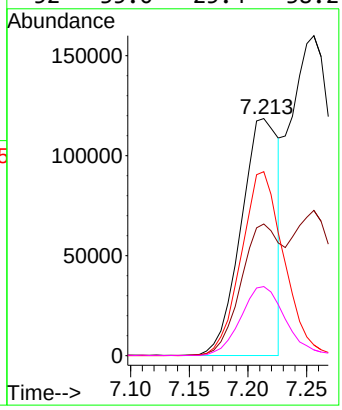


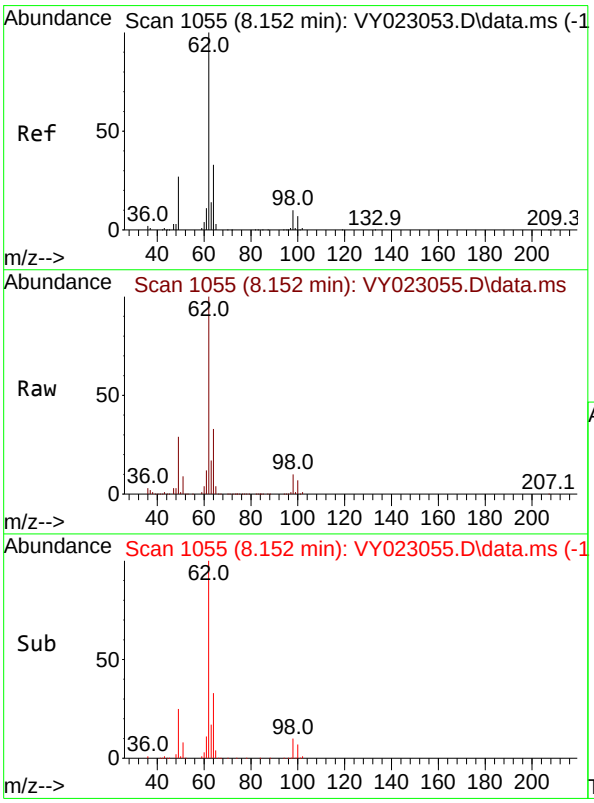
#41
Methacrylonitrile
Concen: 143.669 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 261721

Ion	Ratio	Lower	Upper
41	100		
39	62.2	43.4	65.2
67	89.0	63.6	95.4
52	35.0	25.4	38.2

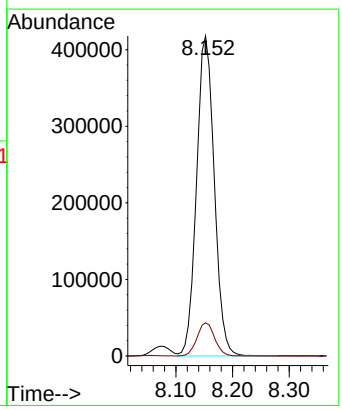


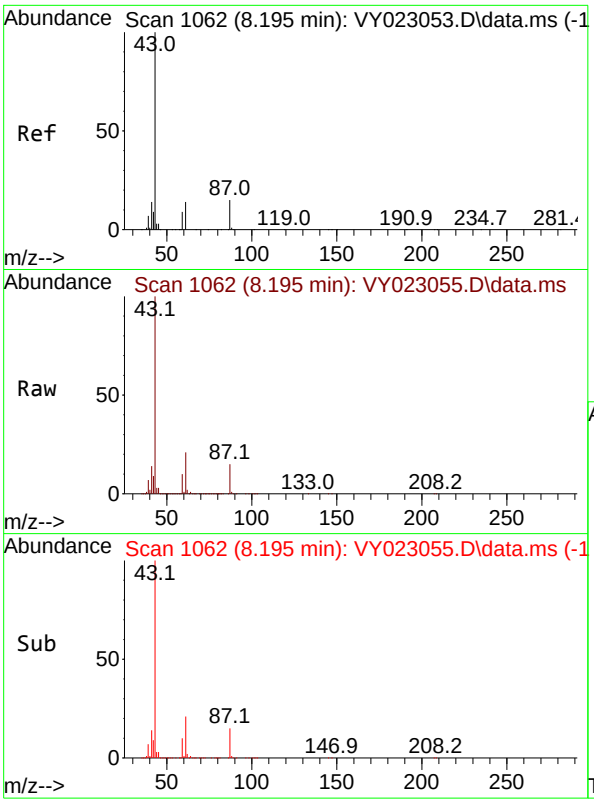


#42
1,2-Dichloroethane
Concen: 151.078 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 909030

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6



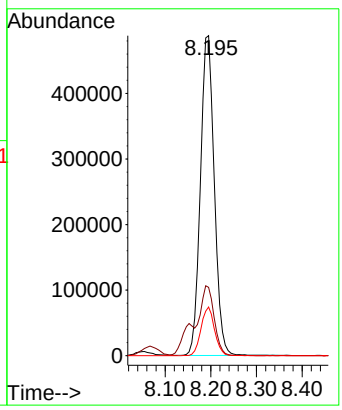


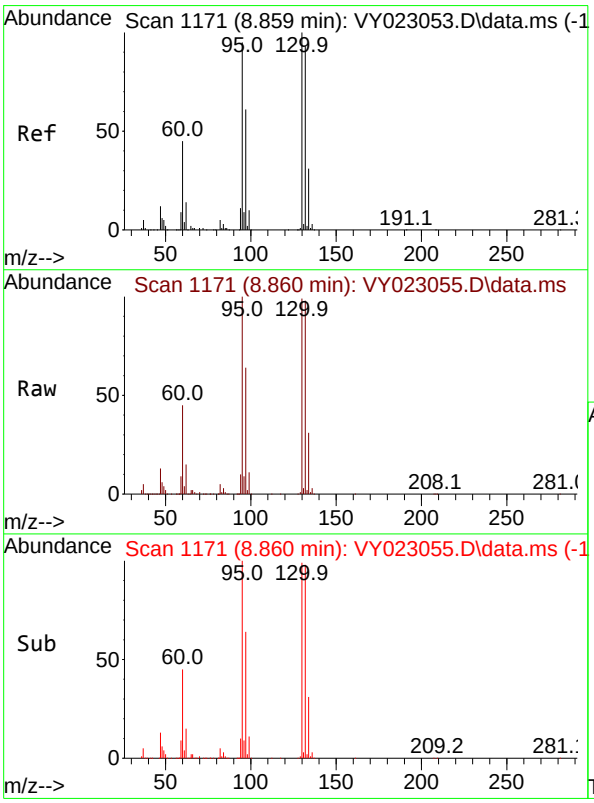
#43
Isopropyl Acetate
Concen: 161.596 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1029854

Ion	Ratio	Lower	Upper
43	100		
61	22.1	16.4	24.6
87	14.8	11.8	17.6

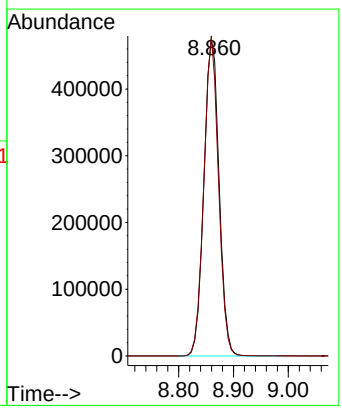


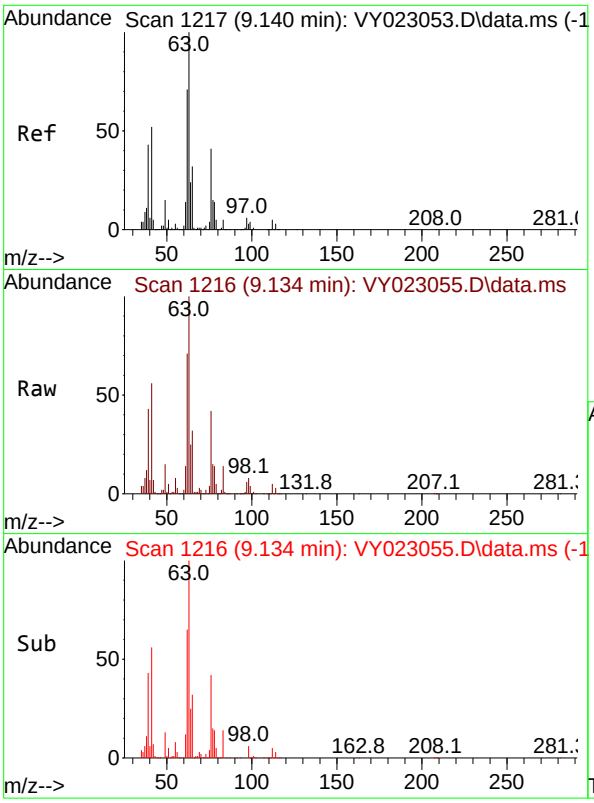


#44
Trichloroethene
Concen: 152.126 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:130 Resp: 909510

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.2



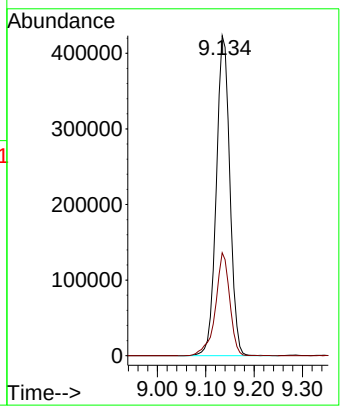


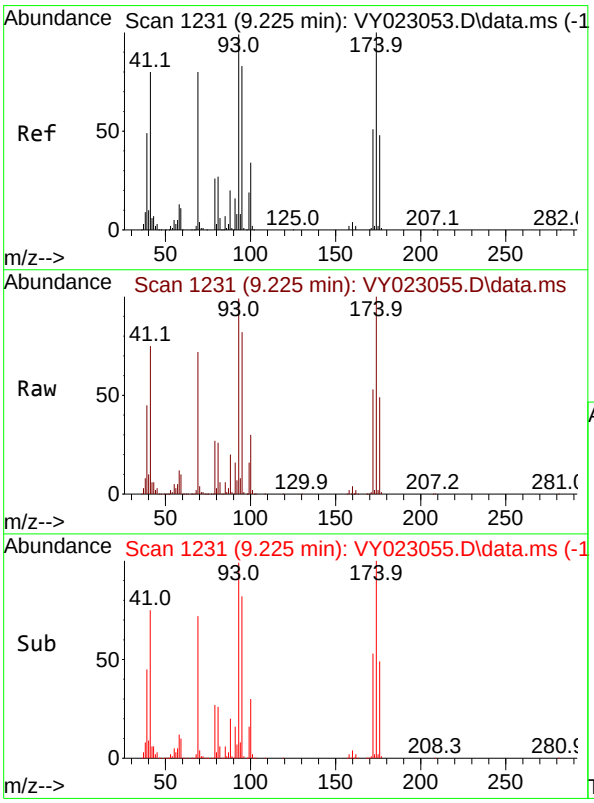
#45
1,2-Dichloropropane
Concen: 154.426 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 822035

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.3	37.9

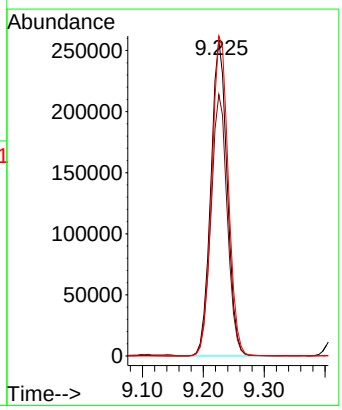


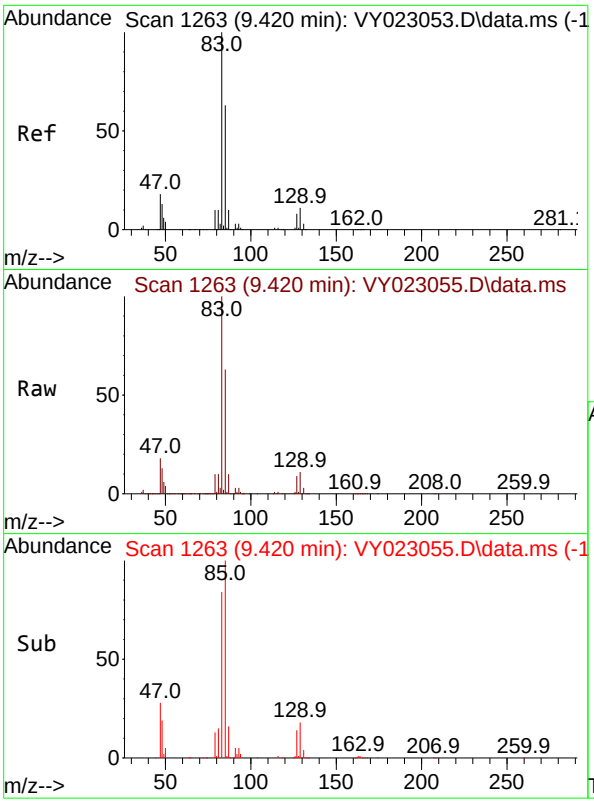


#46
Dibromomethane
Concen: 157.156 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 93 Resp: 480162

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.5	99.7
174	102.6	81.8	122.8



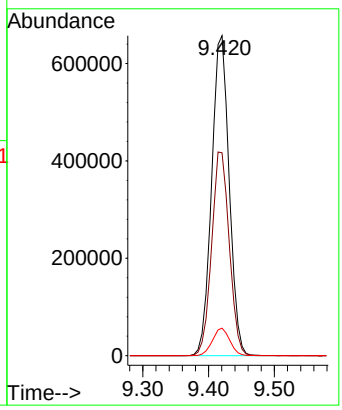


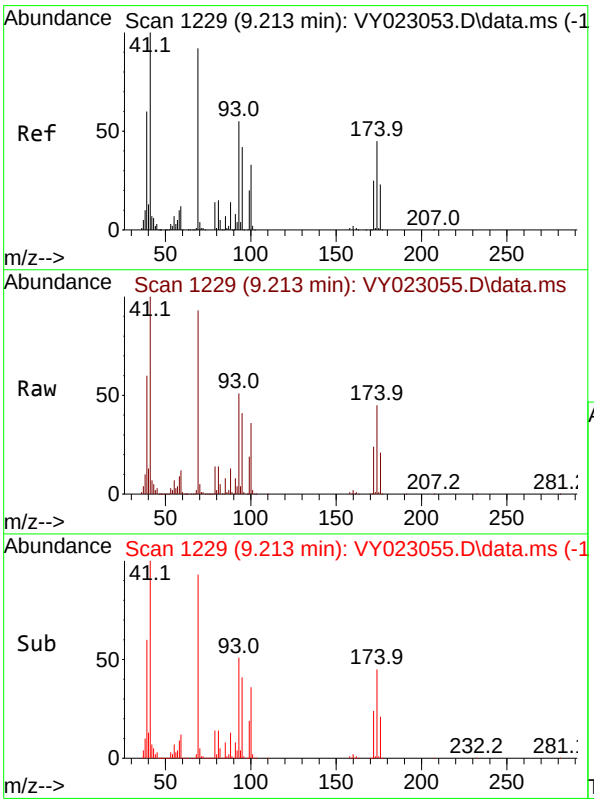
#47
Bromodichloromethane
Concen: 154.884 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 1217658

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.2	75.4
127	8.6	6.6	10.0

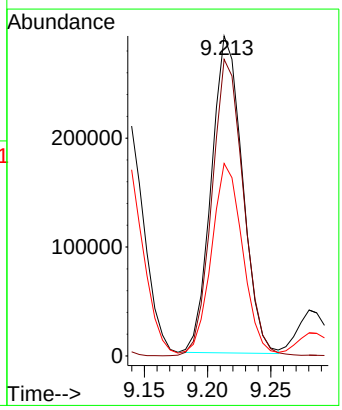


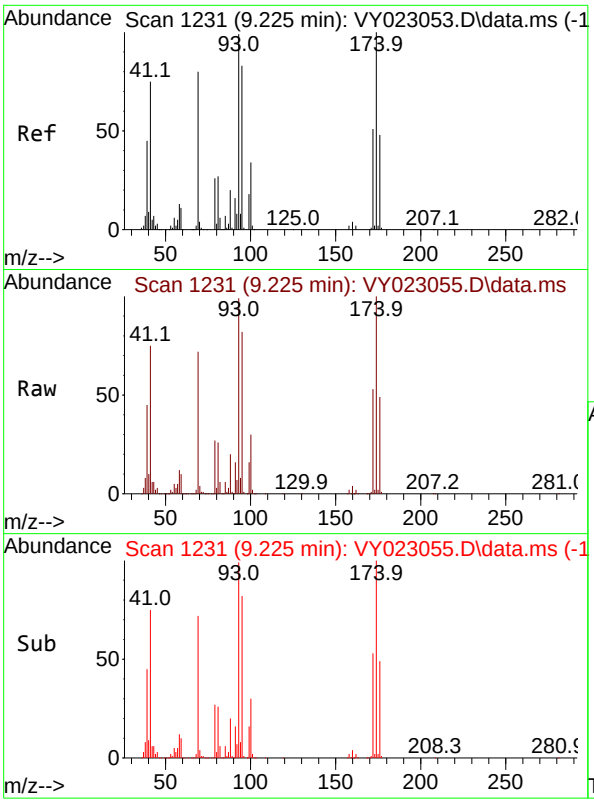


#48
Methyl methacrylate
Concen: 163.144 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 497527

Ion	Ratio	Lower	Upper
41	100		
69	95.0	73.2	109.8
39	59.3	47.0	70.4



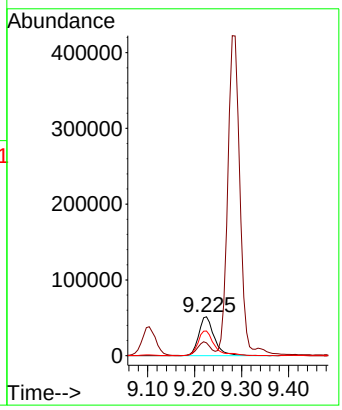


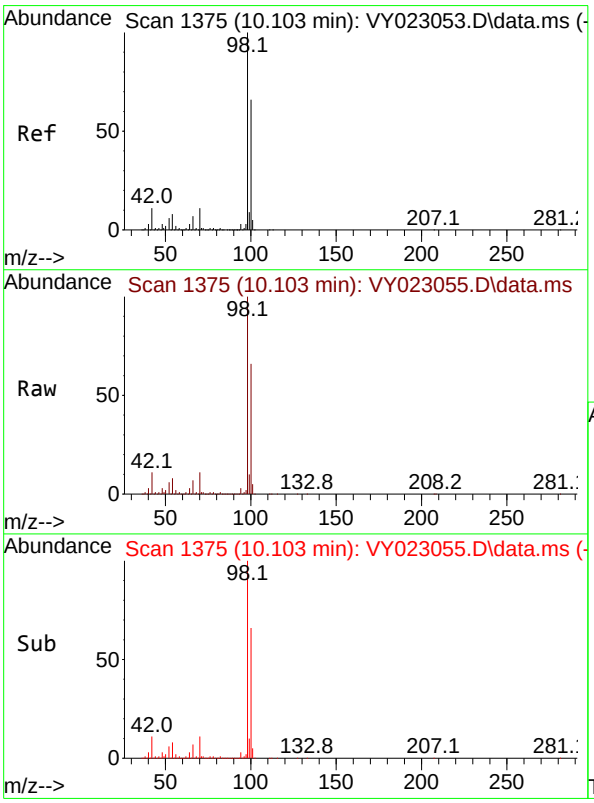
#49
1,4-Dioxane
Concen: 3280.235 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 117513

Ion	Ratio	Lower	Upper
88	100		
43	30.0	24.3	36.5
58	67.5	55.4	83.0

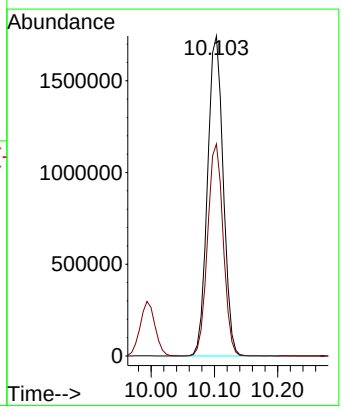


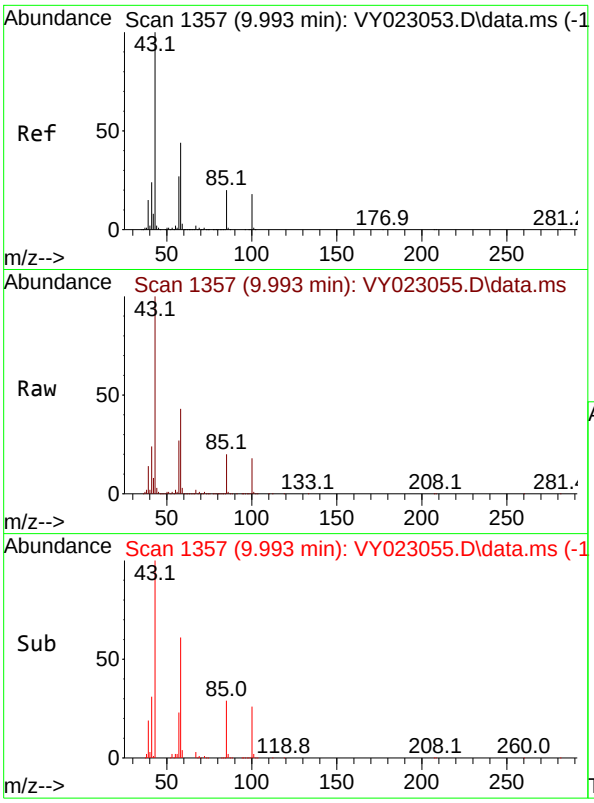


#50
Toluene-d8
Concen: 152.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 98 Resp: 3003834

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.3	78.5



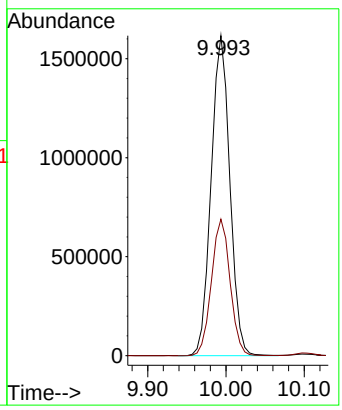


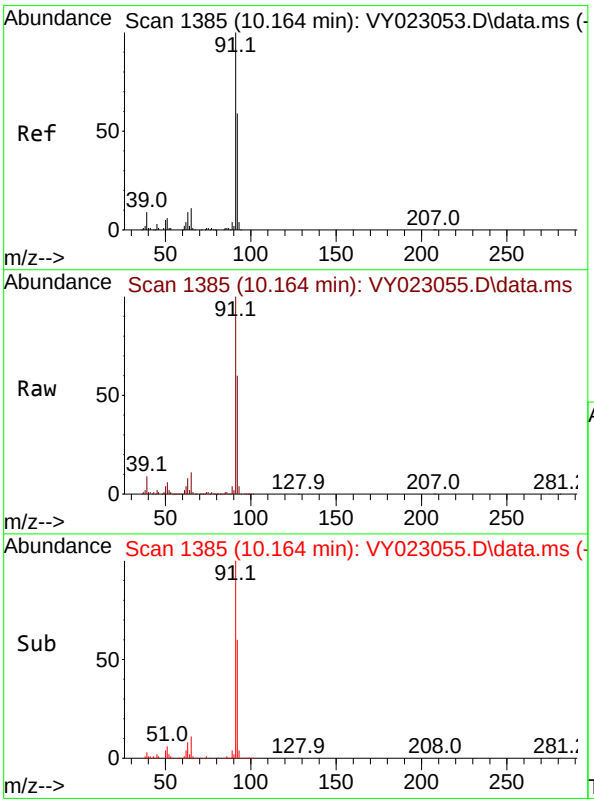
#51
4-Methyl-2-Pentanone
Concen: 814.509 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2677587

Ion	Ratio	Lower	Upper
43	100		
58	42.6	33.5	50.3

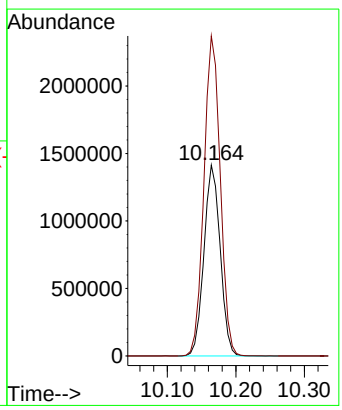


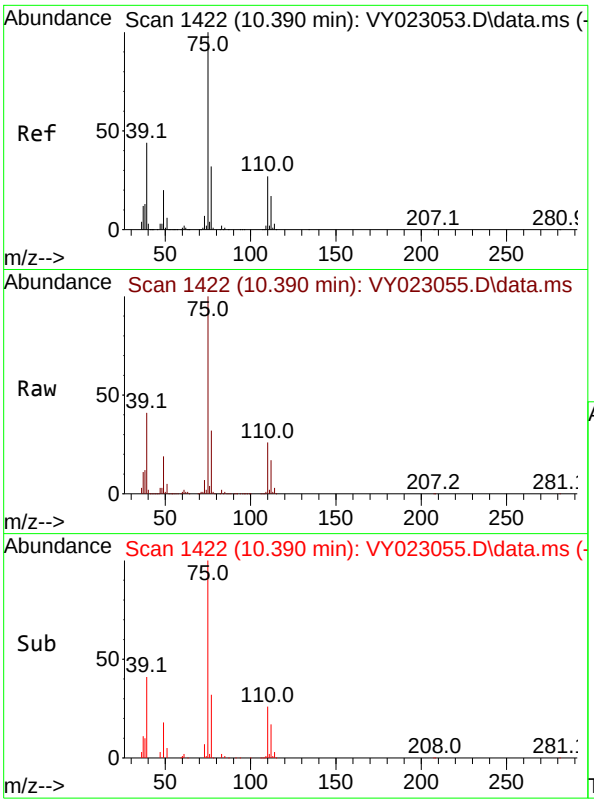


#52
Toluene
Concen: 158.762 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 92 Resp: 2332797

Ion	Ratio	Lower	Upper
92	100		
91	168.8	136.4	204.6



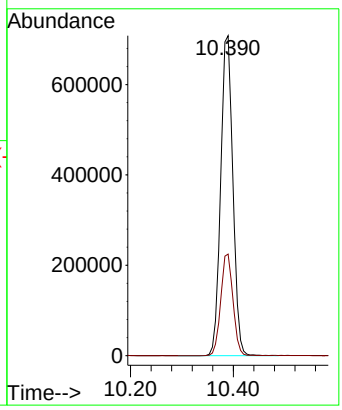


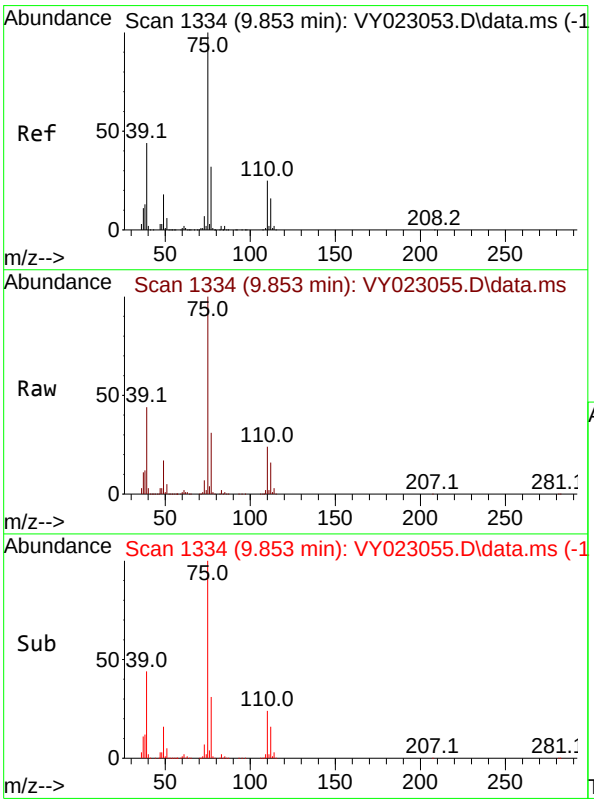
#53
t-1,3-Dichloropropene
Concen: 163.355 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 1162952

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5

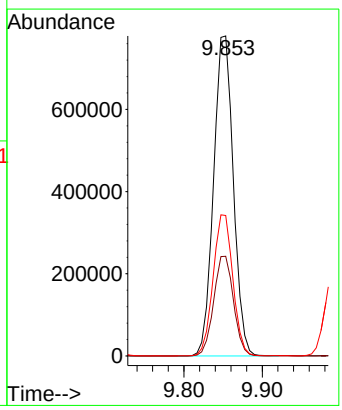


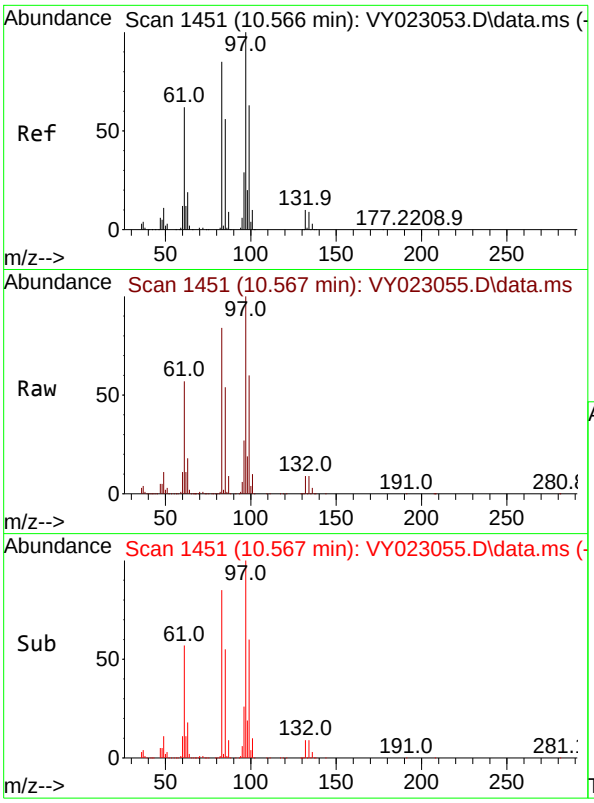


#54
cis-1,3-Dichloropropene
Concen: 162.359 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1366797

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	43.9	35.6	53.4



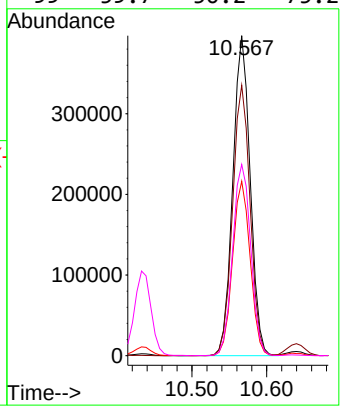


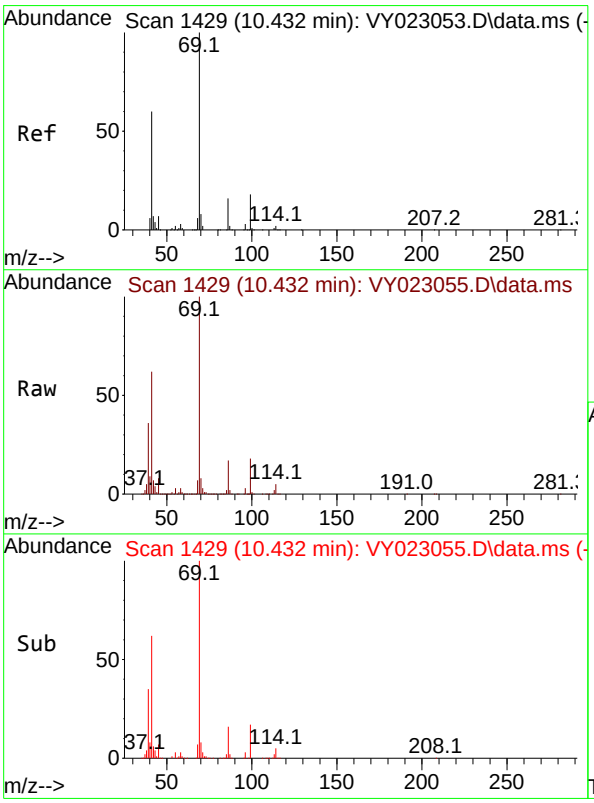
#55
1,1,2-Trichloroethane
Concen: 157.090 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 642236

Ion	Ratio	Lower	Upper
97	100		
83	84.5	67.7	101.5
85	54.5	44.5	66.7
99	59.7	50.2	75.2

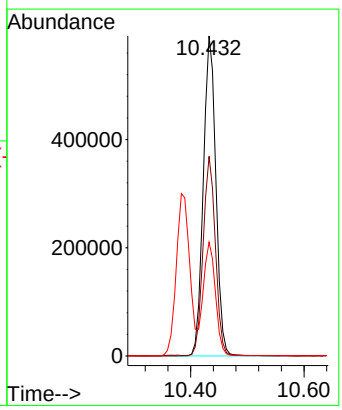


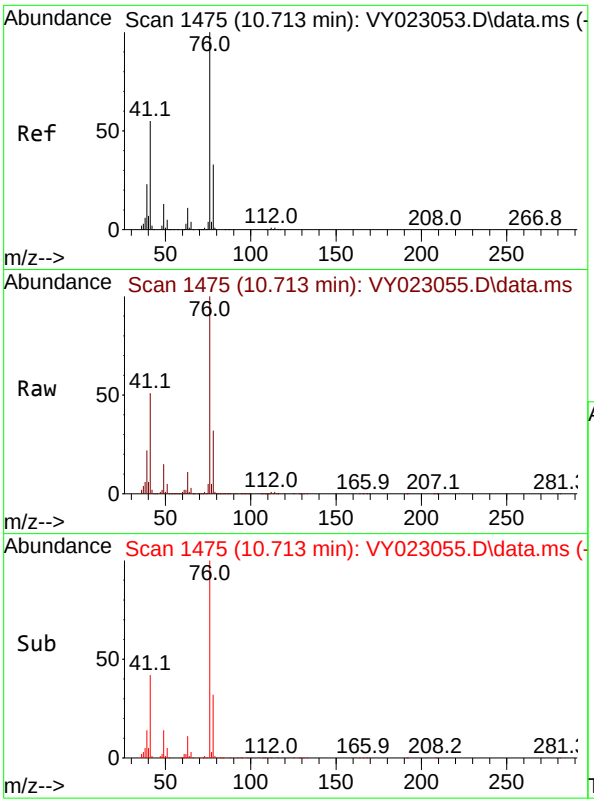


#56
Ethyl methacrylate
Concen: 173.693 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 69 Resp: 908662

Ion	Ratio	Lower	Upper
69	100		
41	60.9	48.6	72.8
39	33.4	27.0	40.4



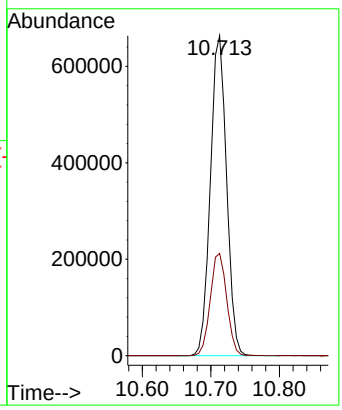


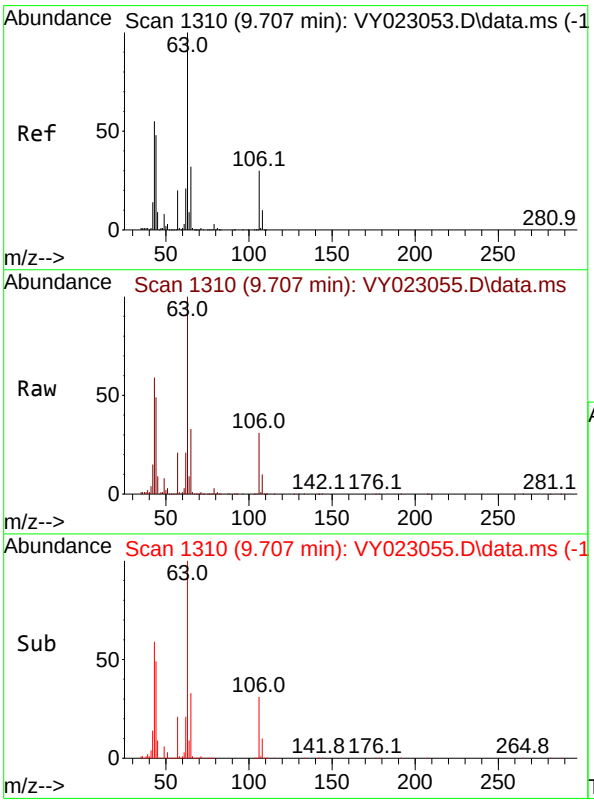
#57
1,3-Dichloropropane
Concen: 156.818 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1087297

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

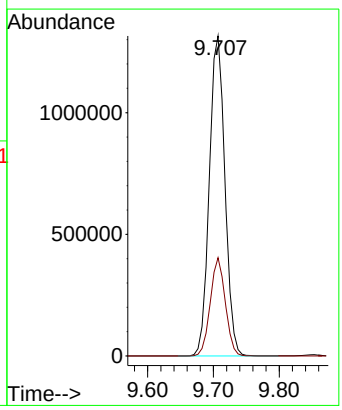


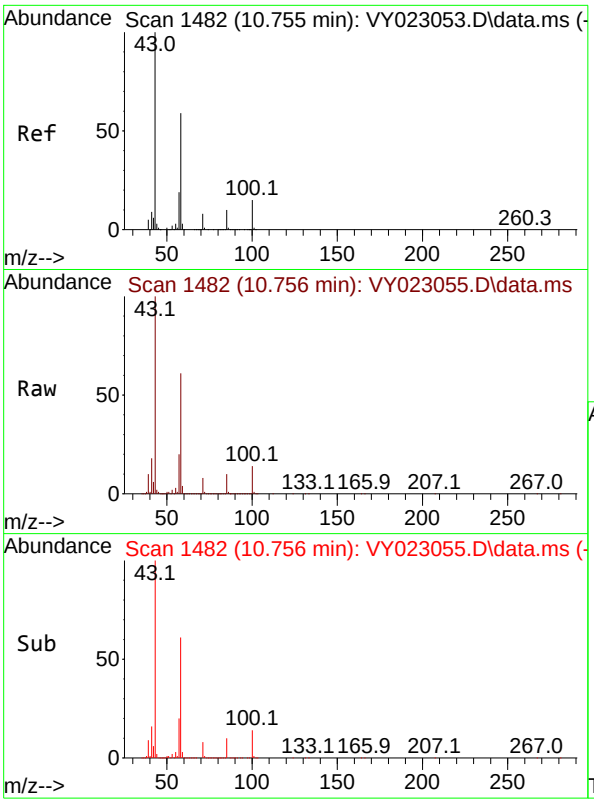


#58
2-Chloroethyl Vinyl ether
Concen: 878.488 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 2167815

Ion	Ratio	Lower	Upper
63	100		
106	29.6	23.2	34.8



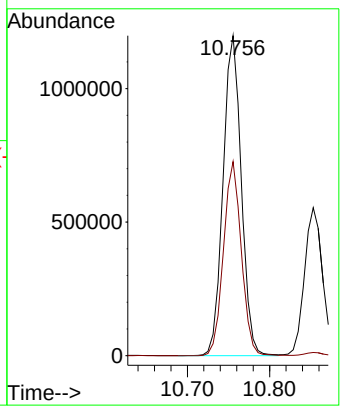


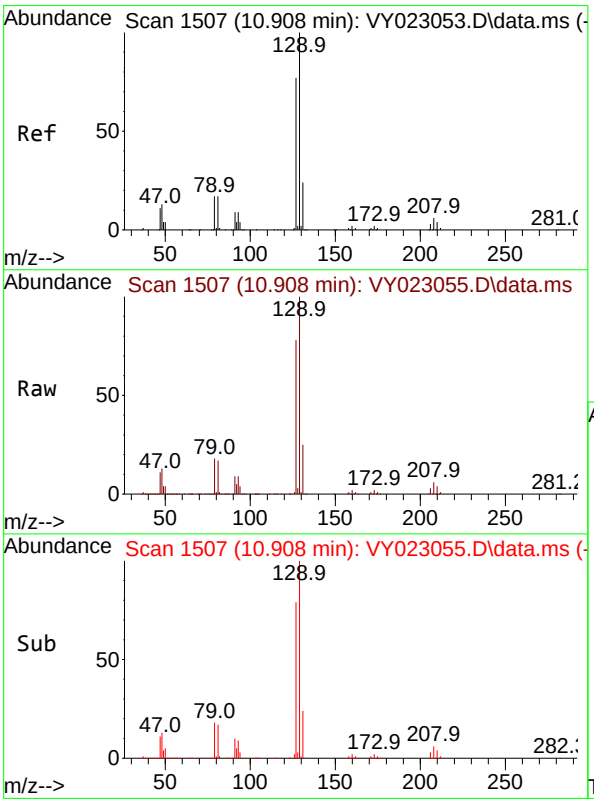
#59
2-Hexanone
Concen: 825.606 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1848093

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

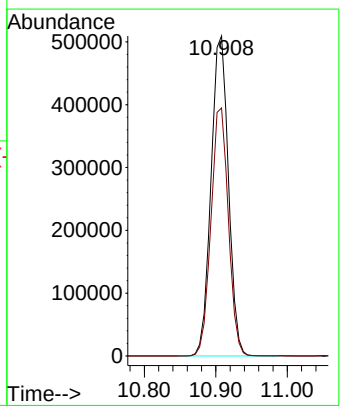


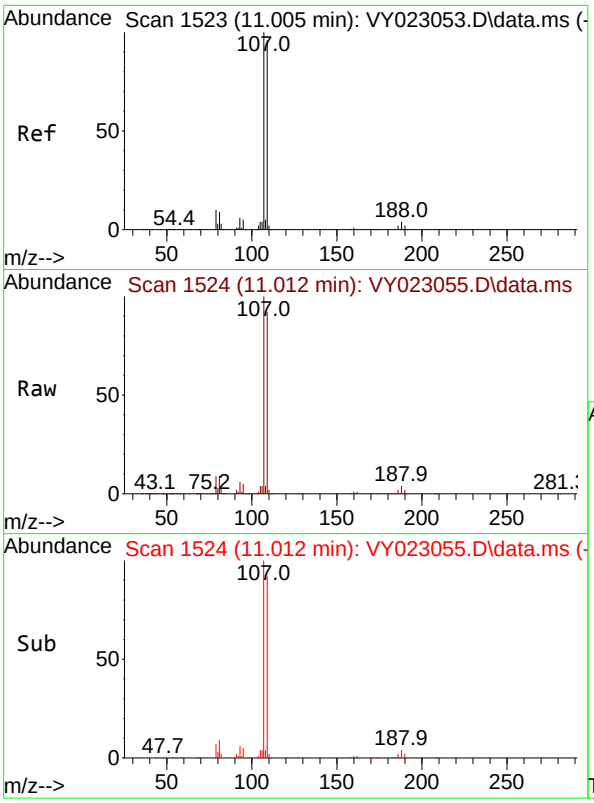


#60
Dibromochloromethane
Concen: 159.454 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:129 Resp: 860181

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5



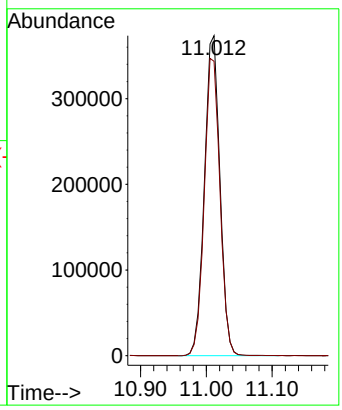


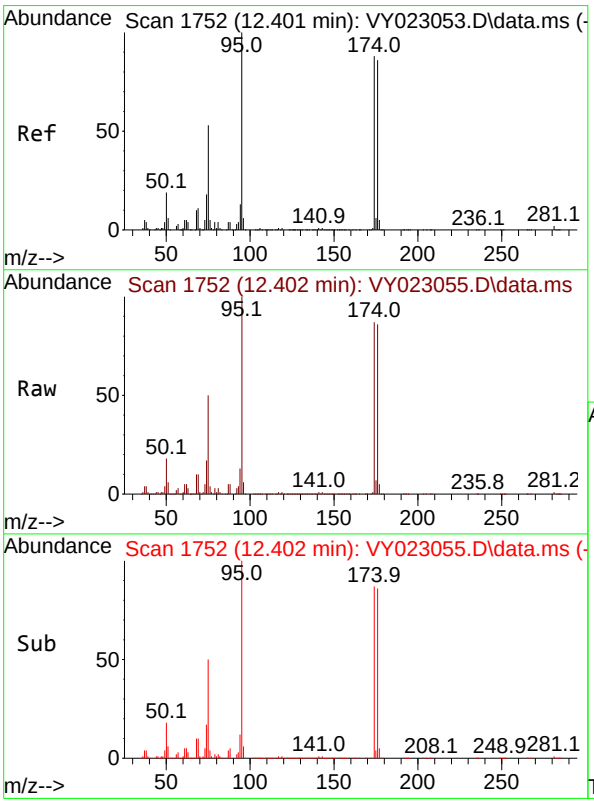
#61
1,2-Dibromoethane
Concen: 159.546 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 613069

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.6	113.4

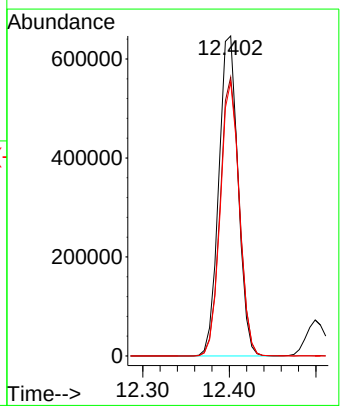


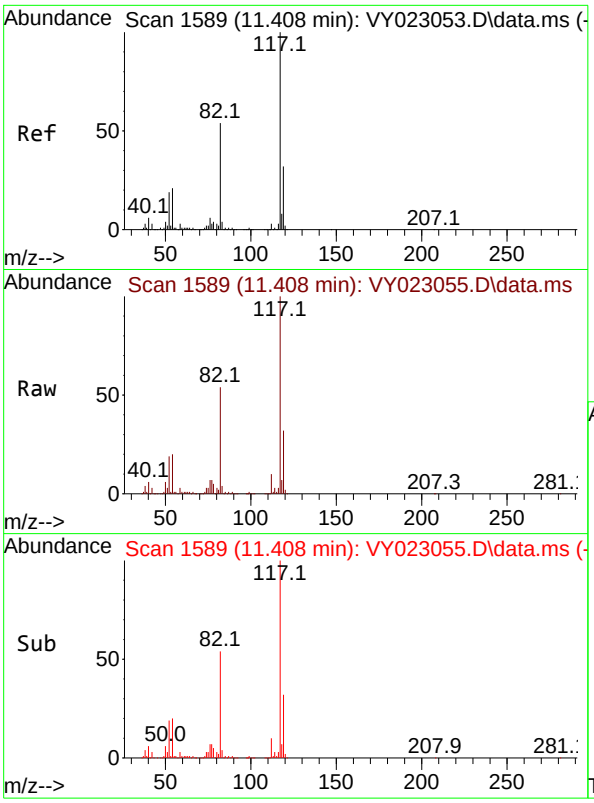


#62
4-Bromofluorobenzene
Concen: 157.326 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 95 Resp: 998318

Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	171.6
176	84.6	0.0	167.6



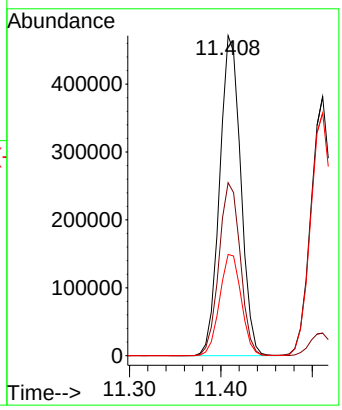


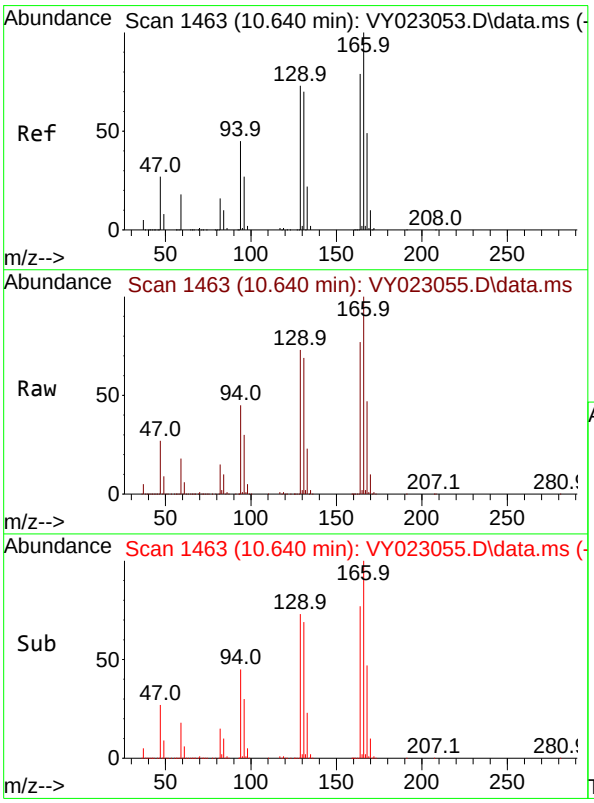
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 756365

Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.4	65.0
119	31.7	25.6	38.4

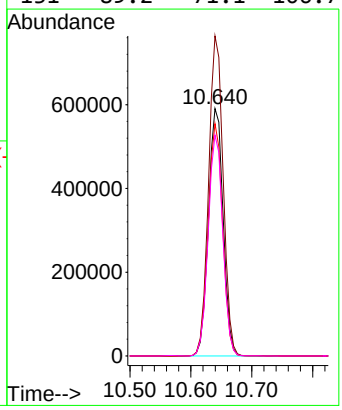


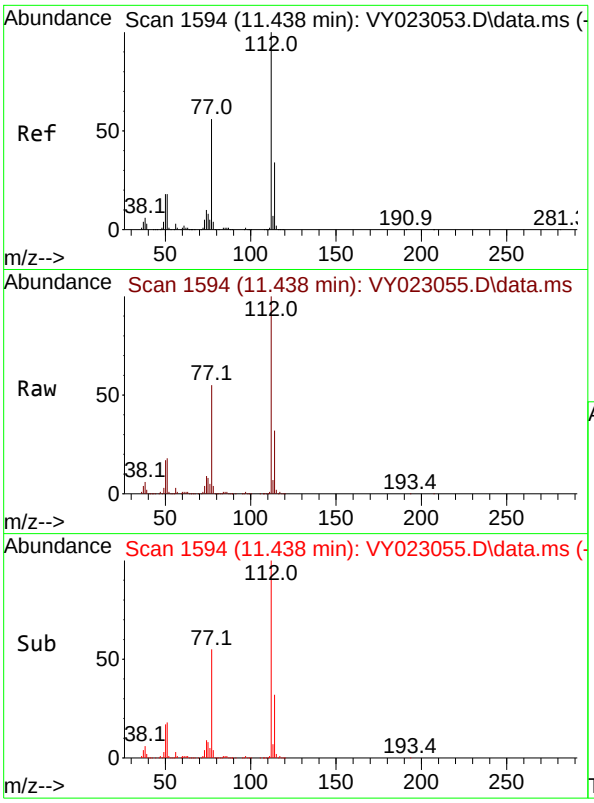


#64
Tetrachloroethene
Concen: 146.682 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:164 Resp: 990664

Ion	Ratio	Lower	Upper
164	100		
166	129.4	101.1	151.7
129	93.9	74.0	111.0
131	89.2	71.1	106.7



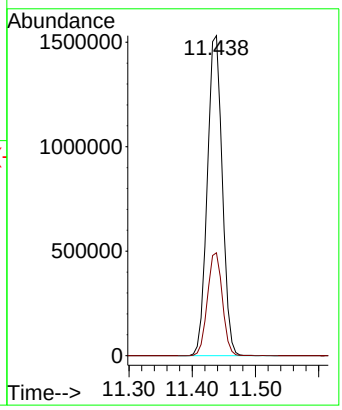


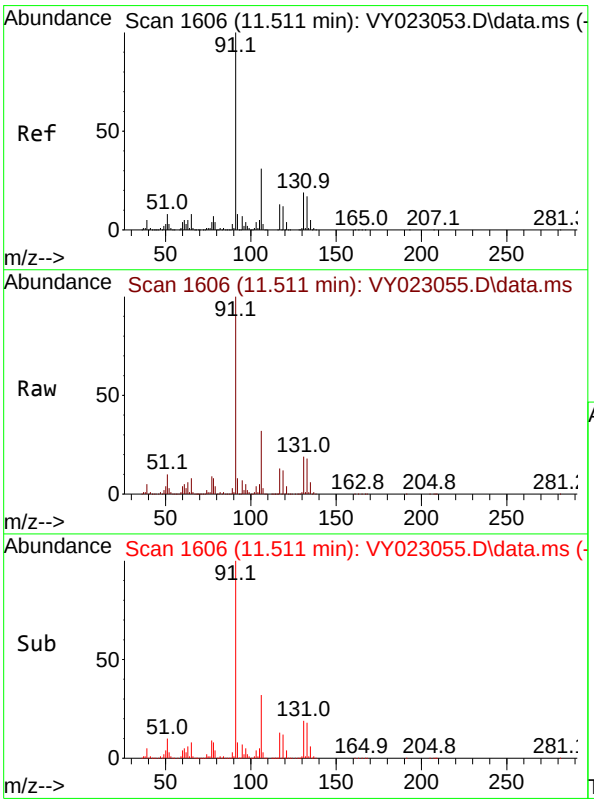
#65
Chlorobenzene
Concen: 154.514 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 2520874

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

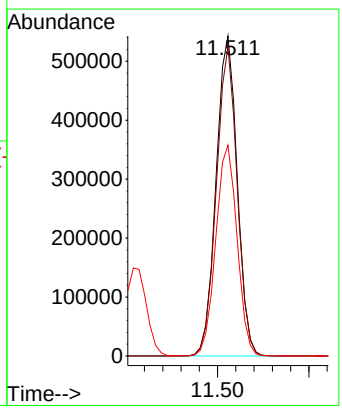


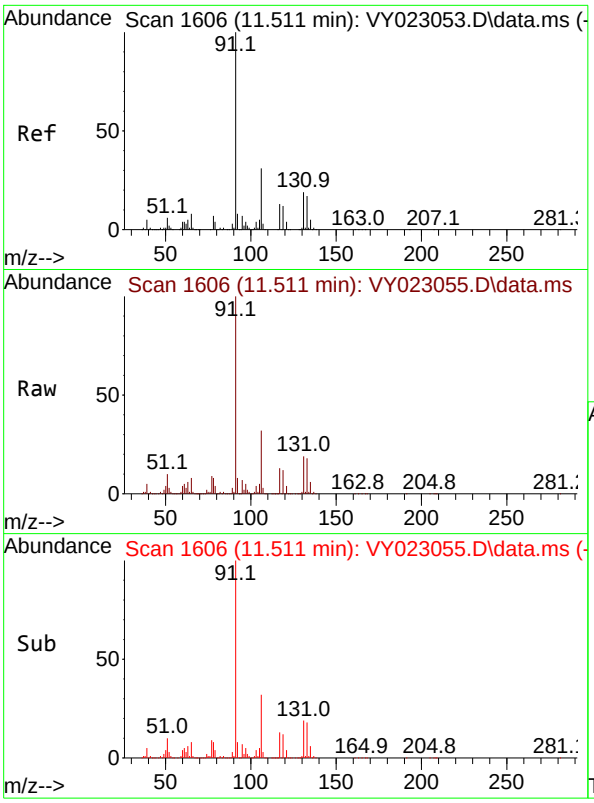


#66
1,1,1,2-Tetrachloroethane
Concen: 157.304 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:131 Resp: 871003

Ion	Ratio	Lower	Upper
131	100		
133	95.1	46.9	140.6
119	66.5	33.2	99.6



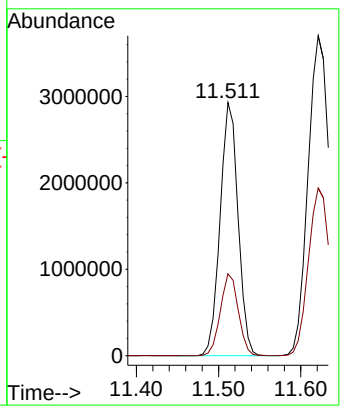


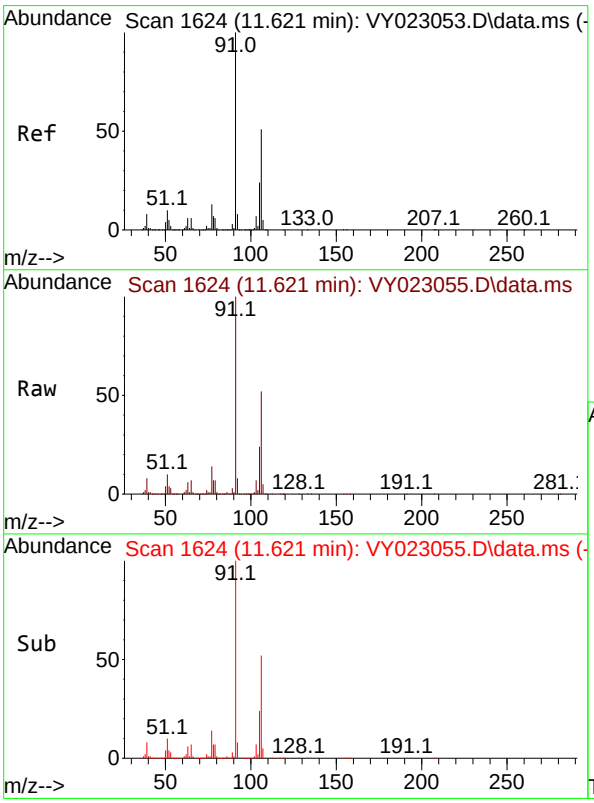
#67
Ethyl Benzene
Concen: 158.093 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 4438665

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4

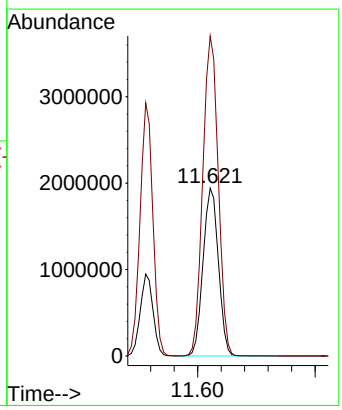


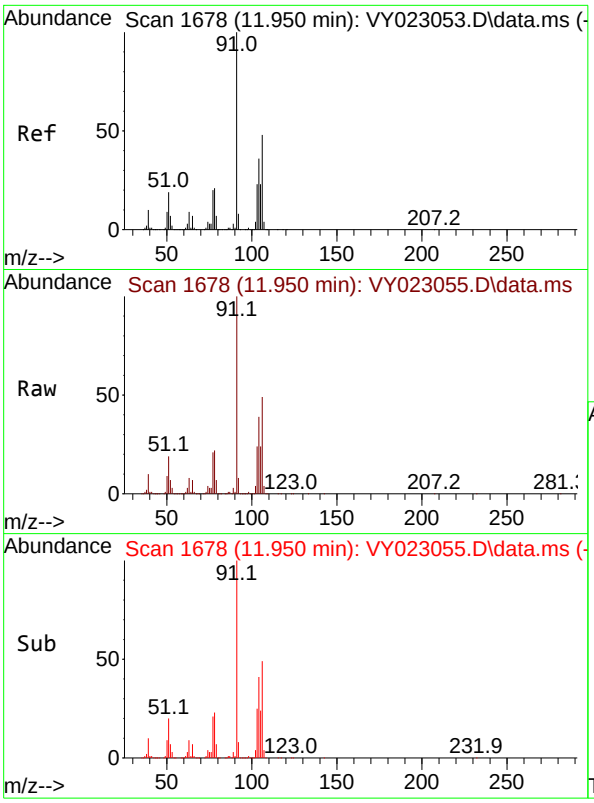


#68
m/p-Xylenes
Concen: 320.251 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 3511726

Ion	Ratio	Lower	Upper
106	100		
91	192.1	158.6	238.0



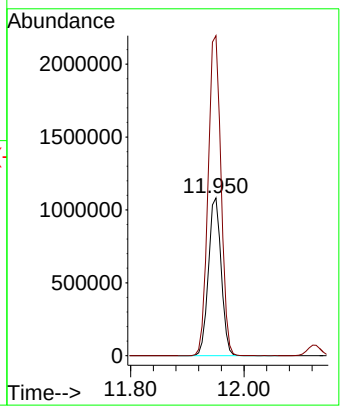


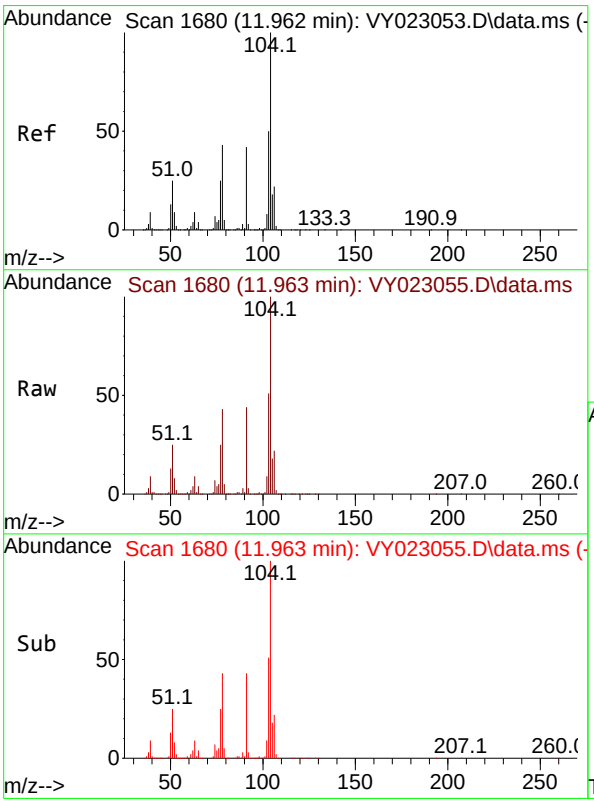
#69
o-Xylene
Concen: 163.941 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 1683720

Ion	Ratio	Lower	Upper
106	100		
91	205.5	103.2	309.4

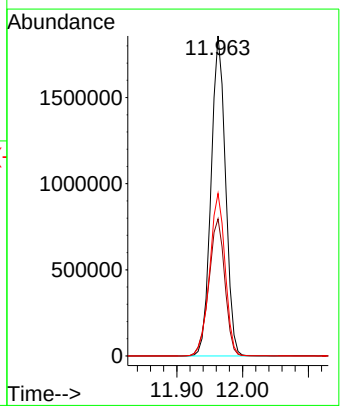


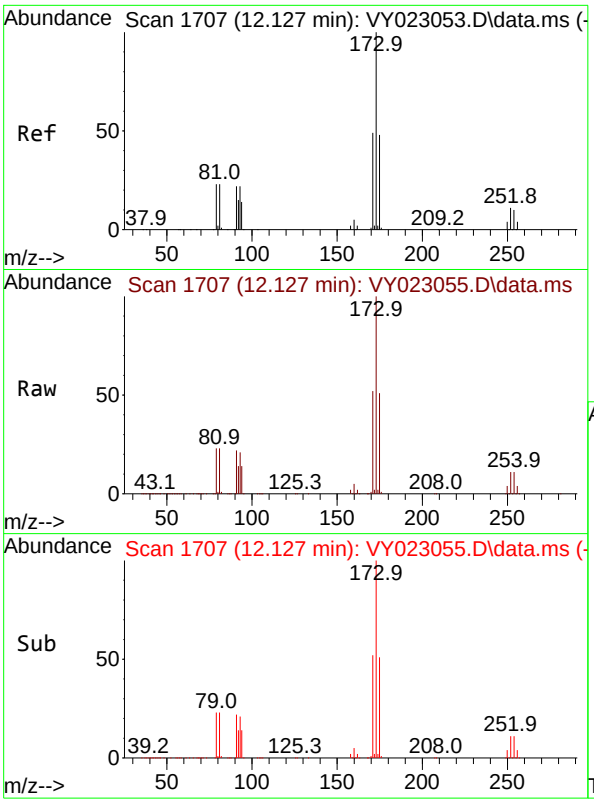


#70
Styrene
Concen: 169.475 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:104 Resp: 2846443

Ion	Ratio	Lower	Upper
104	100		
78	47.2	38.5	57.7
103	54.3	43.7	65.5



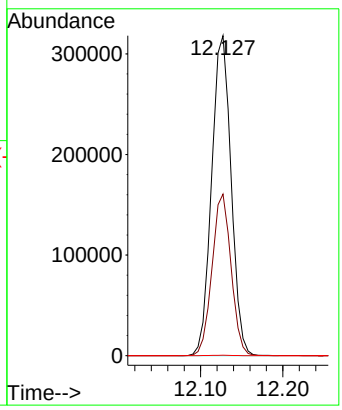


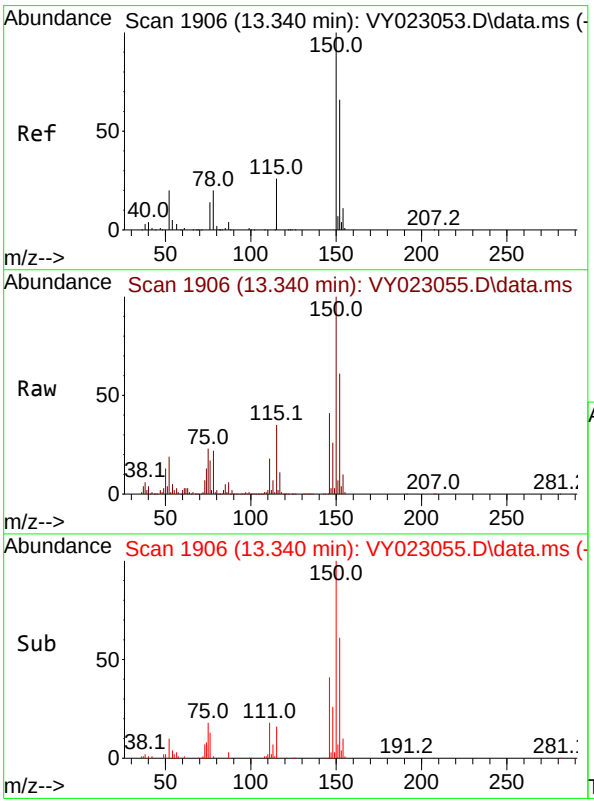
#71
Bromoform
Concen: 161.778 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 523541

Ion	Ratio	Lower	Upper
173	100		
175	49.3	23.9	71.7
254	0.2	0.1	0.1#

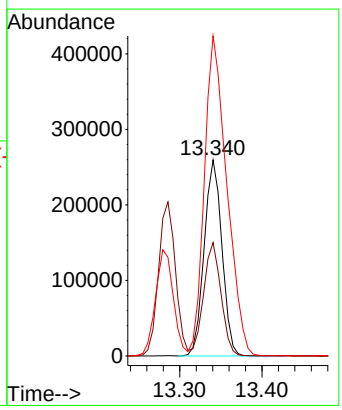


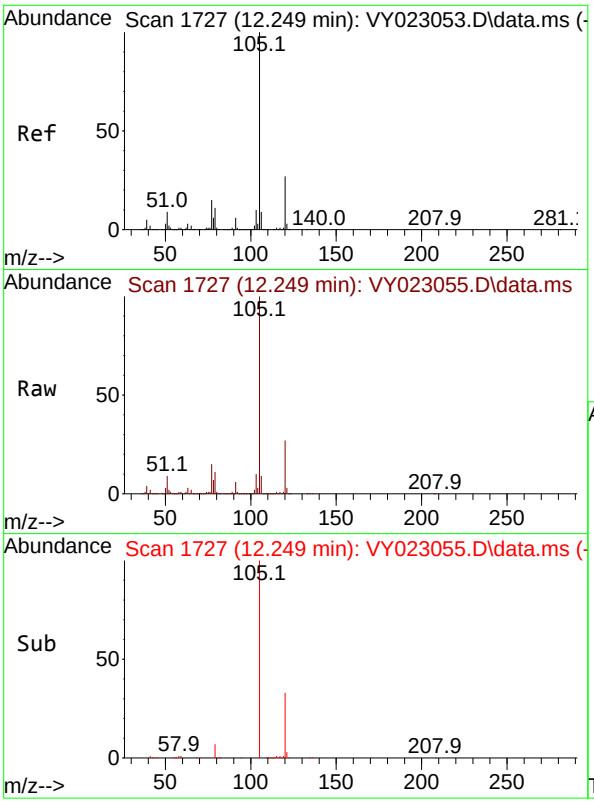


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:152 Resp: 389949

Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.2	84.6
150	205.8	0.0	348.0



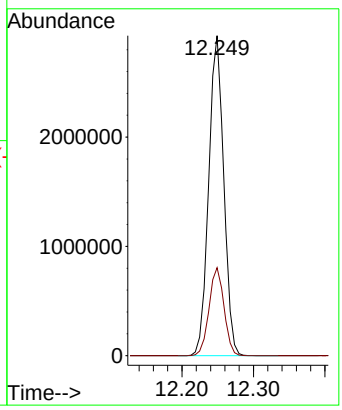


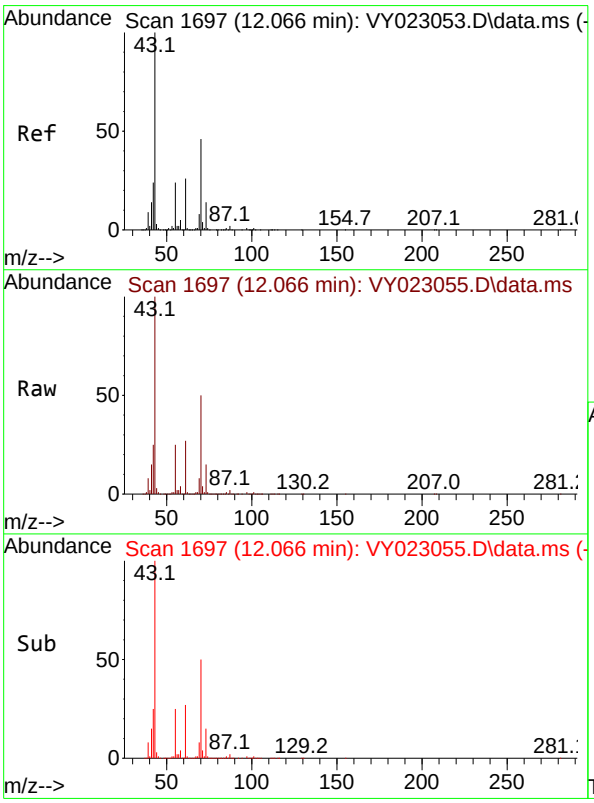
#73
Isopropylbenzene
Concen: 155.145 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 4269945

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2

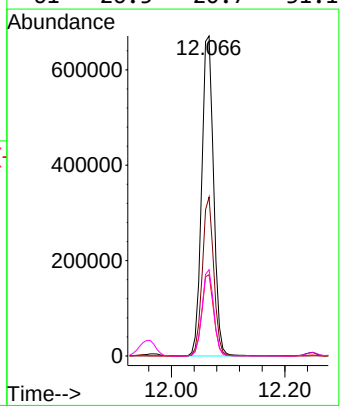


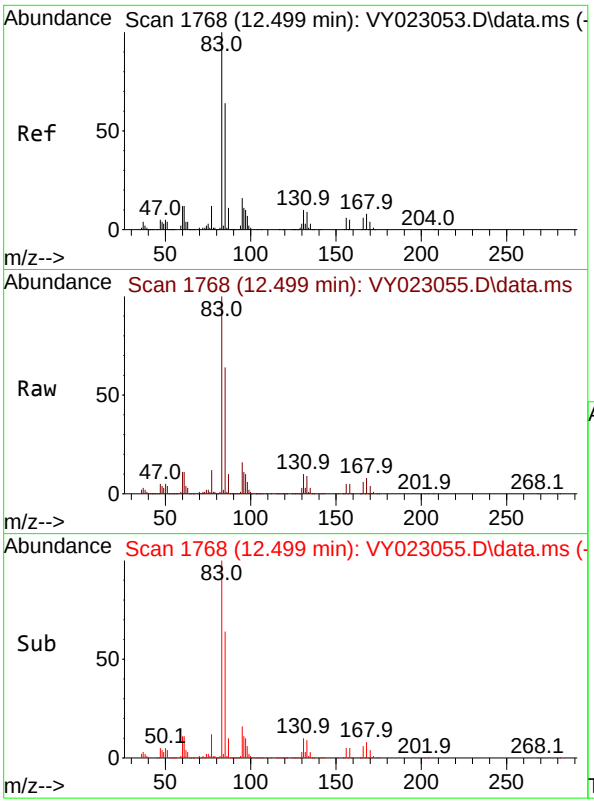


#74
N-amyl acetate
Concen: 168.265 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 982090

Ion	Ratio	Lower	Upper
43	100		
70	47.8	37.5	56.3
55	25.3	20.7	31.1
61	26.5	20.7	31.1



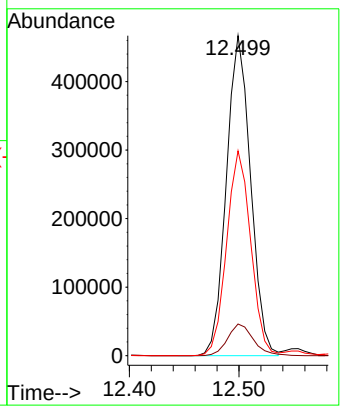


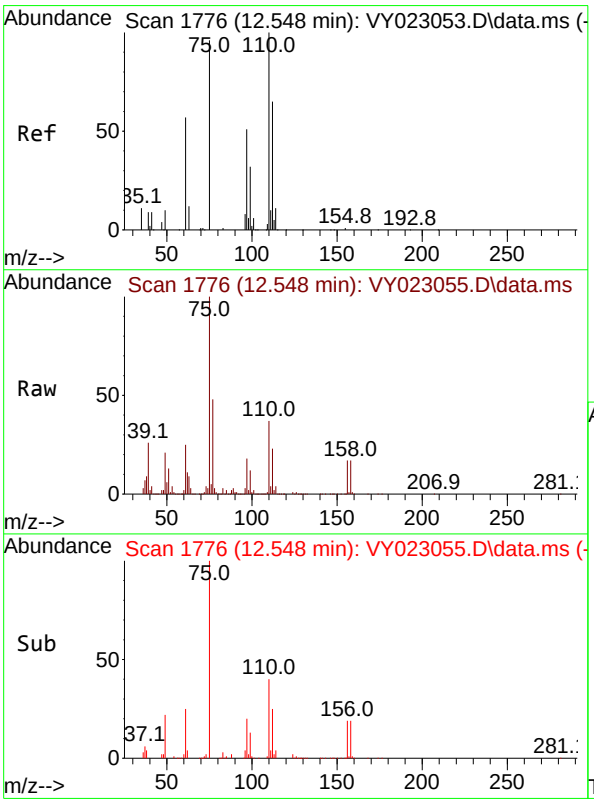
#75
1,1,2,2-Tetrachloroethane
Concen: 152.686 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 717524

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	63.7	31.8	95.3

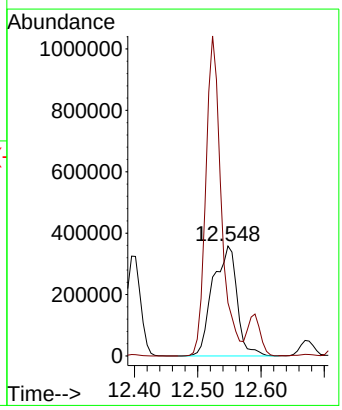


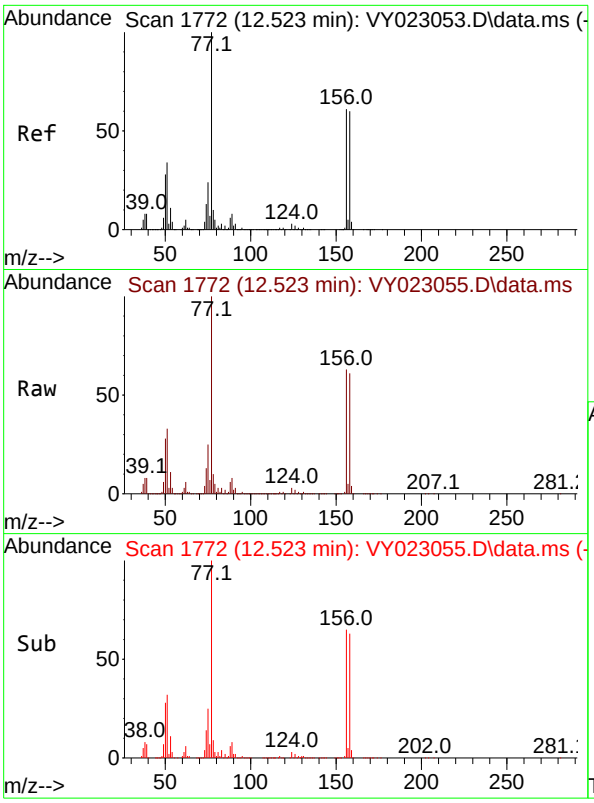


#76
1,2,3-Trichloropropane
Concen: 252.416 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 950569

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



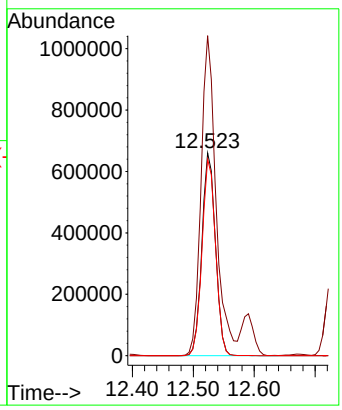


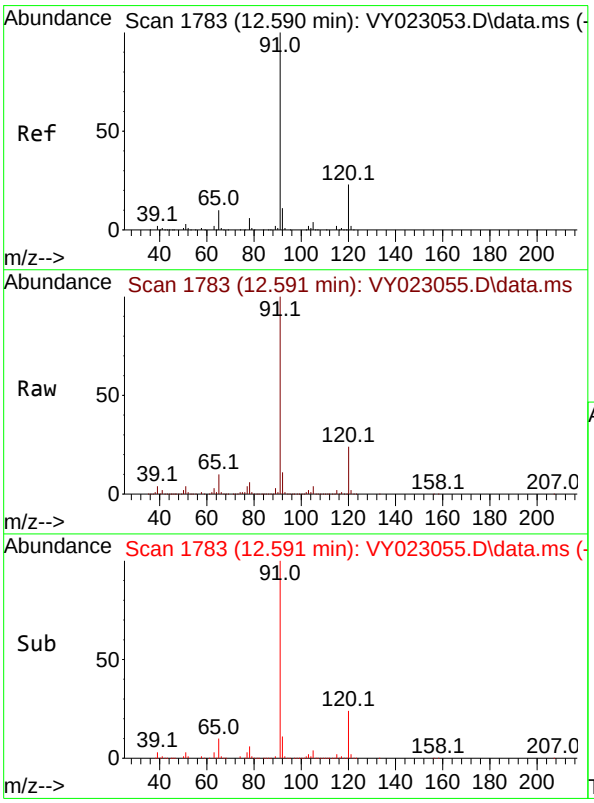
#77
Bromobenzene
Concen: 155.568 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 1021449

Ion	Ratio	Lower	Upper
156	100		
77	174.8	88.1	264.4
158	97.0	48.0	144.0

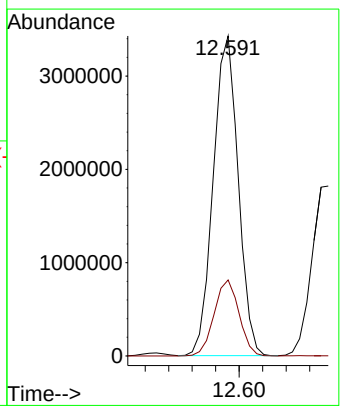


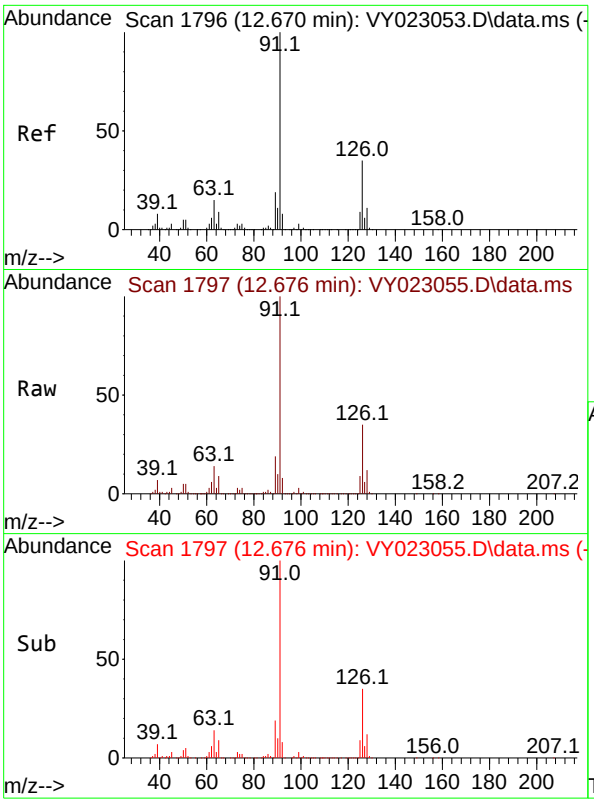


#78
n-propylbenzene
Concen: 154.058 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 5048012

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.5	34.5



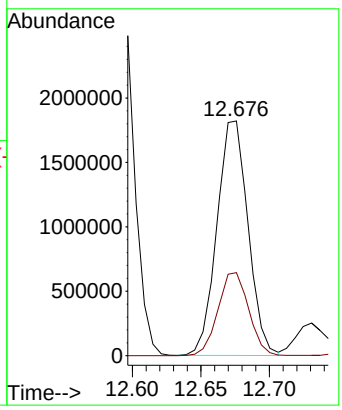


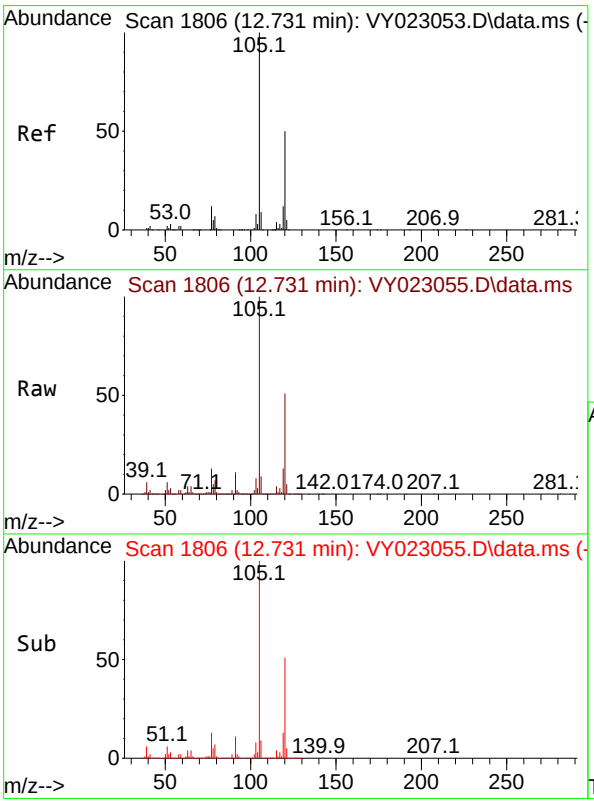
#79
2-Chlorotoluene
Concen: 153.331 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2878647

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3

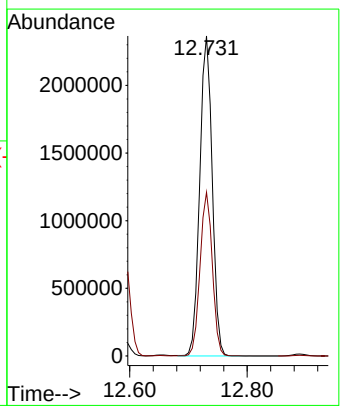


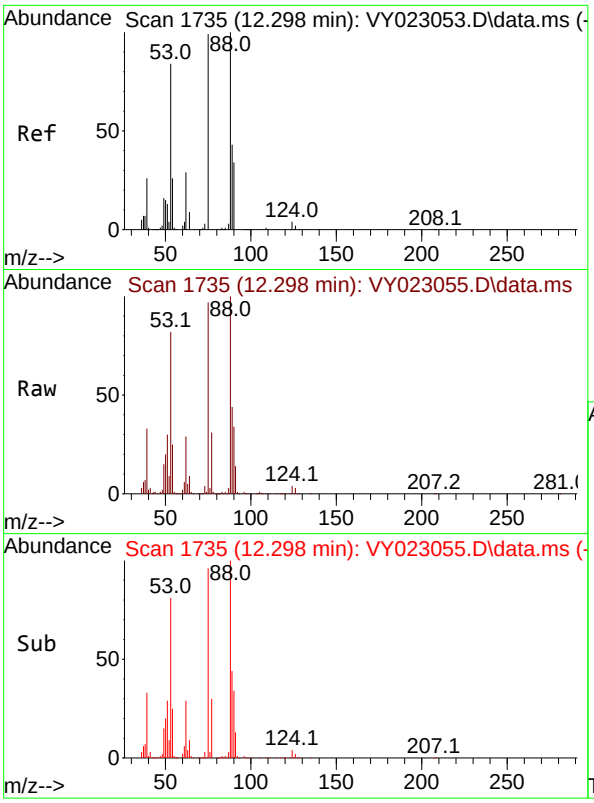


#80
1,3,5-Trimethylbenzene
Concen: 155.973 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3469329

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.8	74.4



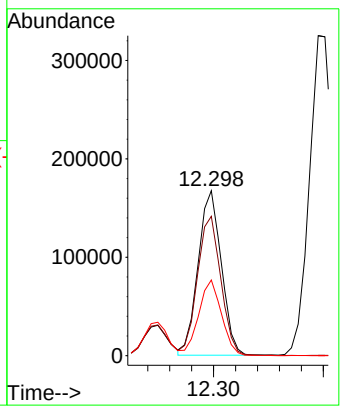


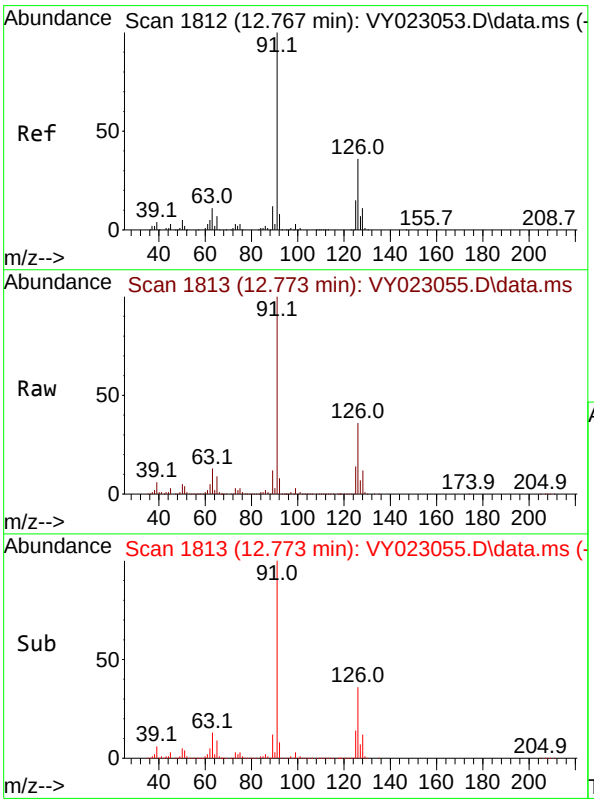
#81
trans-1,4-Dichloro-2-butene
Concen: 158.203 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 245958

Ion	Ratio	Lower	Upper
75	100		
53	85.9	70.8	106.2
89	45.5	38.1	57.1

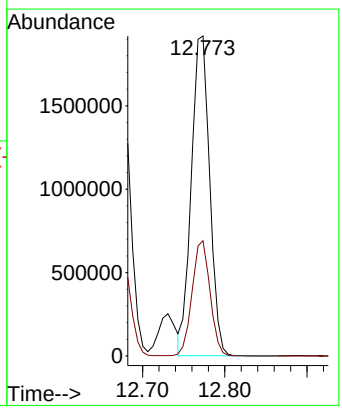


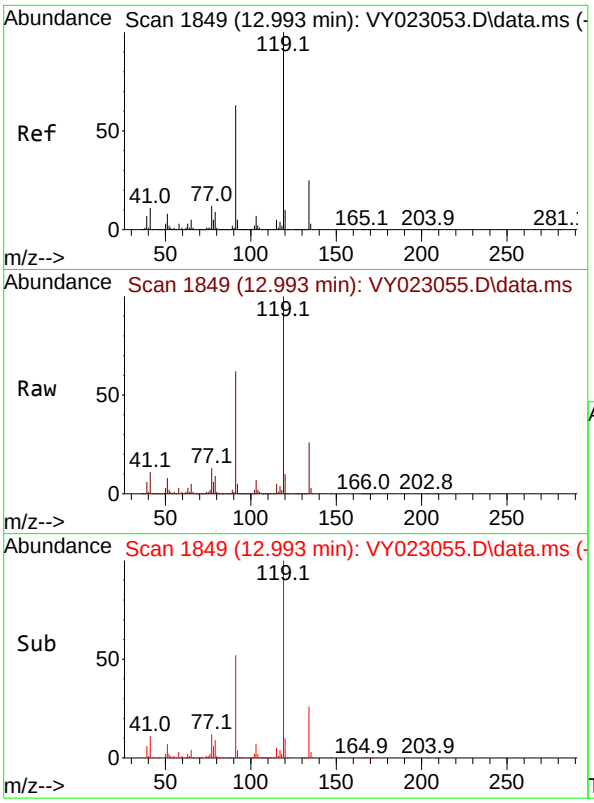


#82
4-Chlorotoluene
Concen: 153.063 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 2981042

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.3	52.0



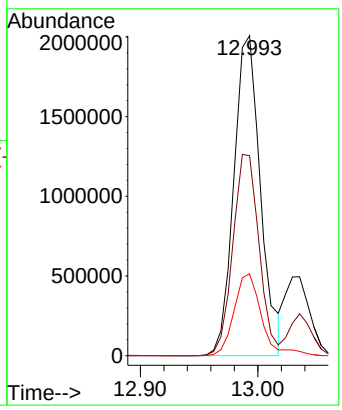


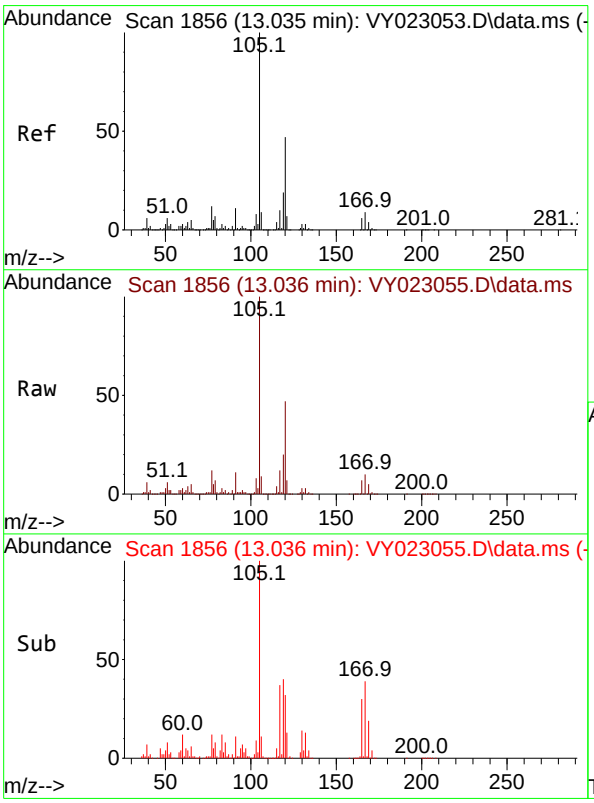
#83
tert-Butylbenzene
Concen: 157.371 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 3161475

Ion	Ratio	Lower	Upper
119	100		
91	62.0	31.6	94.8
134	26.4	12.9	38.7

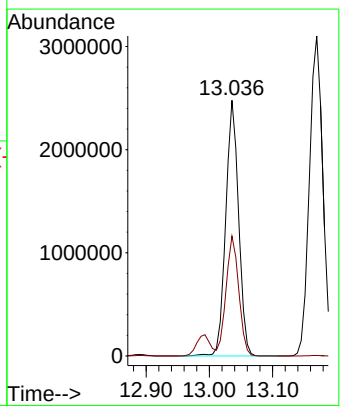


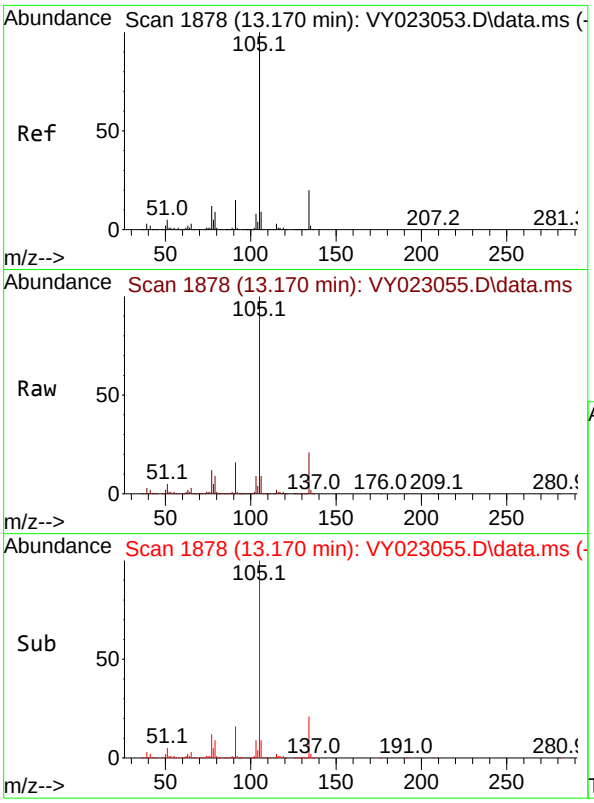


#84
1,2,4-Trimethylbenzene
Concen: 158.143 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3501626

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



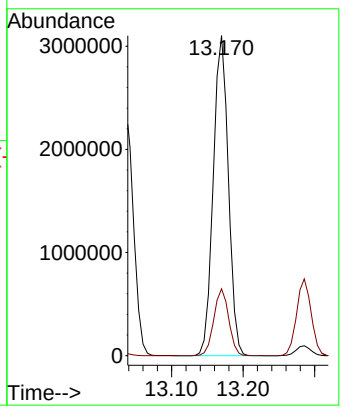


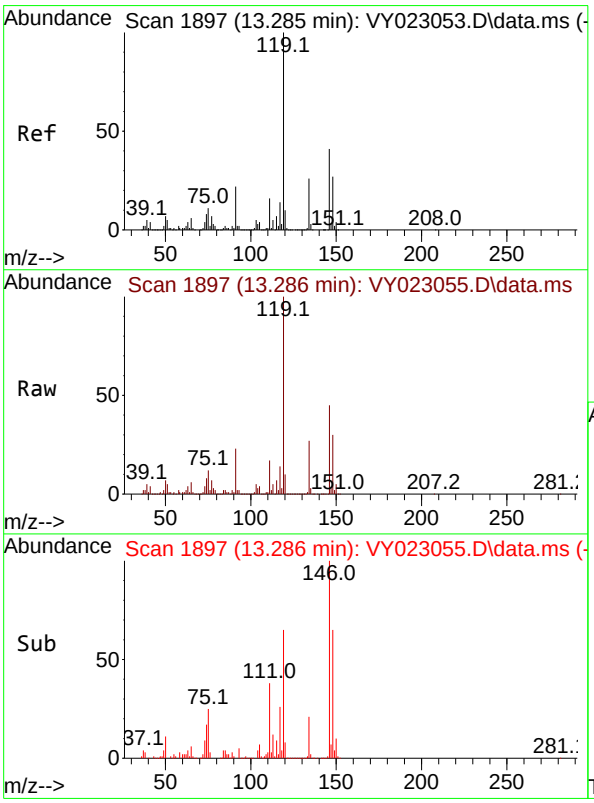
#85
sec-Butylbenzene
Concen: 153.897 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 4541629

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.2	30.4

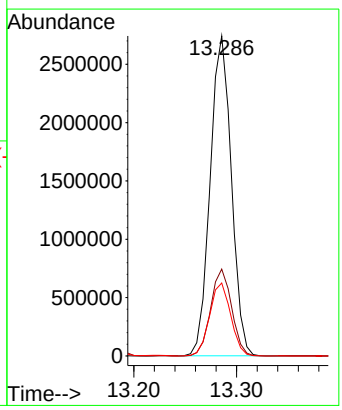


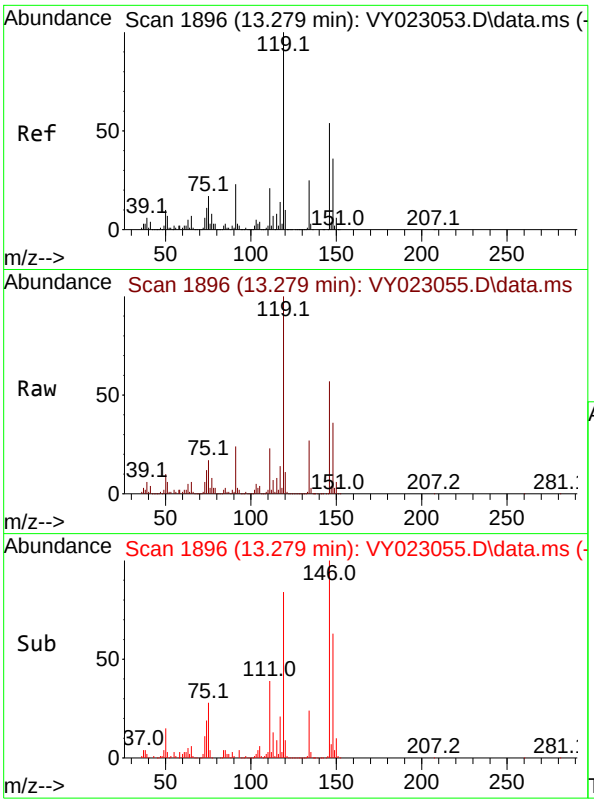


#86
p-Isopropyltoluene
Concen: 159.987 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:119 Resp: 3918969

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.2	39.6
91	22.6	11.3	33.8



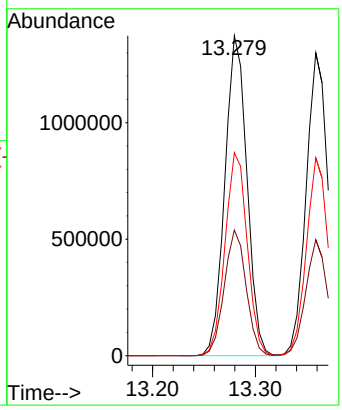


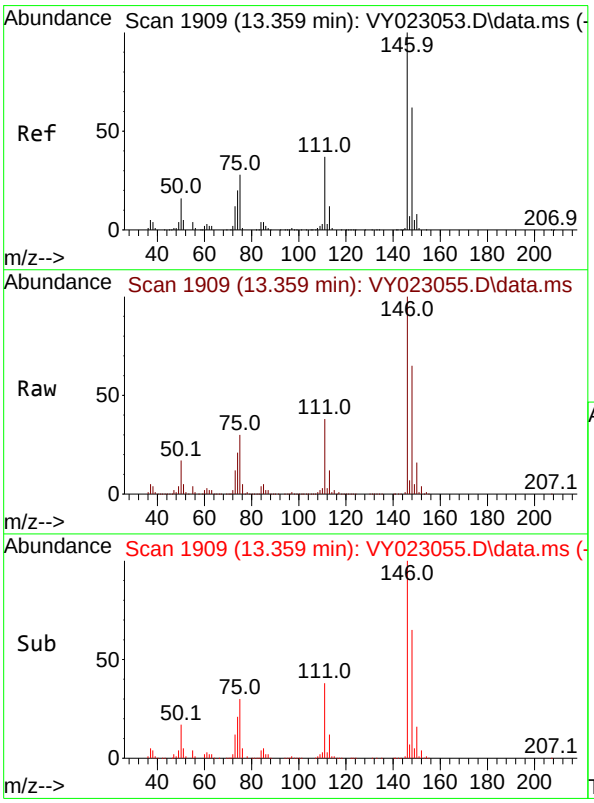
#87
1,3-Dichlorobenzene
Concen: 158.251 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 2049060

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.6	58.7
148	63.8	32.5	97.5

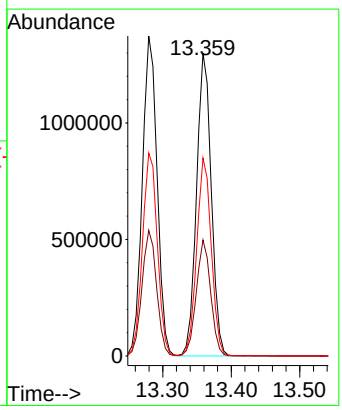


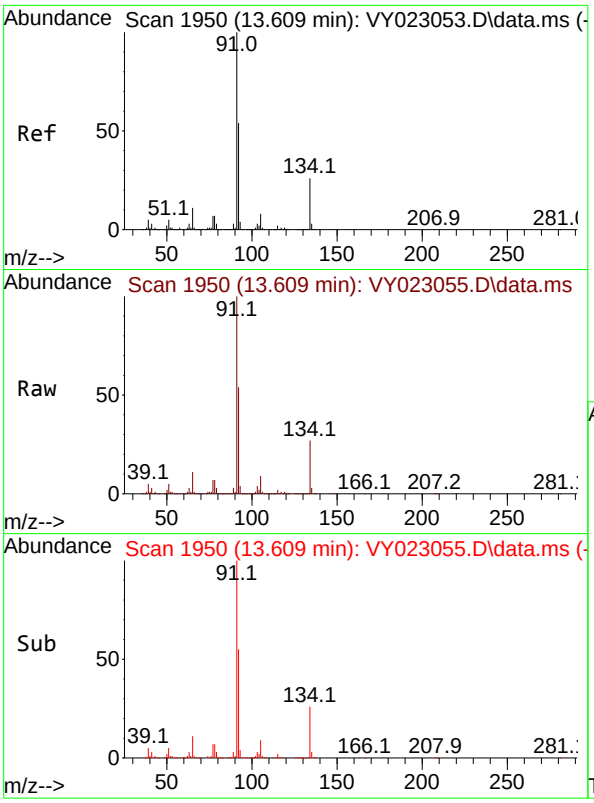


#88
1,4-Dichlorobenzene
Concen: 151.172 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 1941716

Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	64.7	31.6	94.7



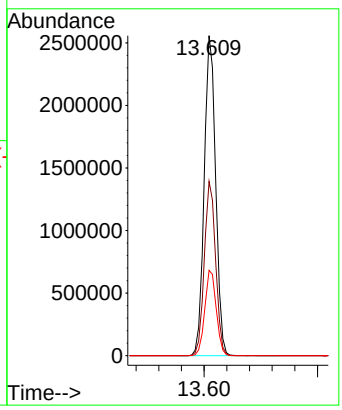


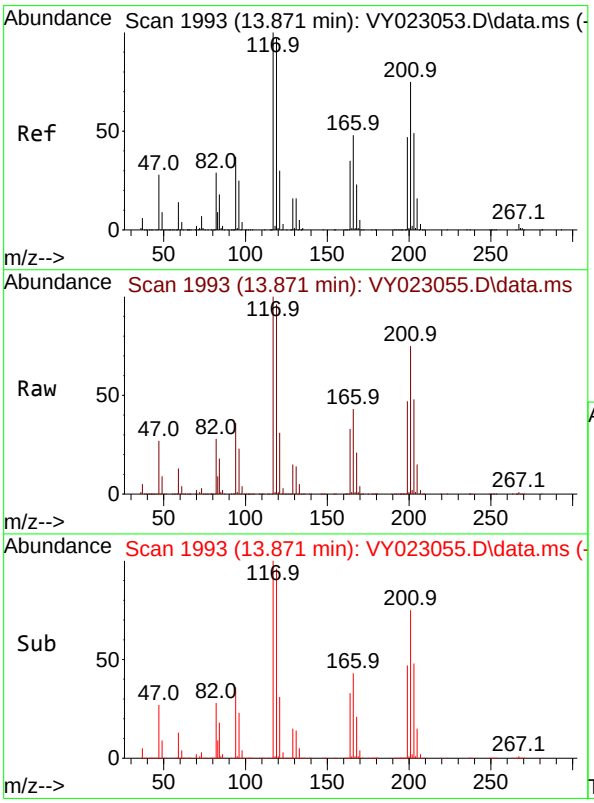
#89
n-Butylbenzene
Concen: 159.048 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 3578272

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.7
134	26.7	13.2	39.5

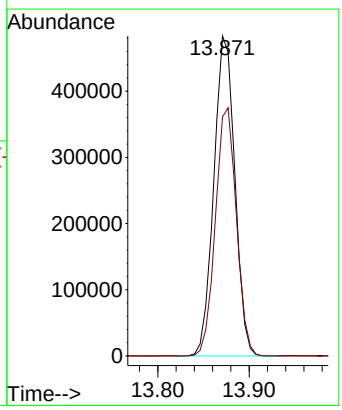


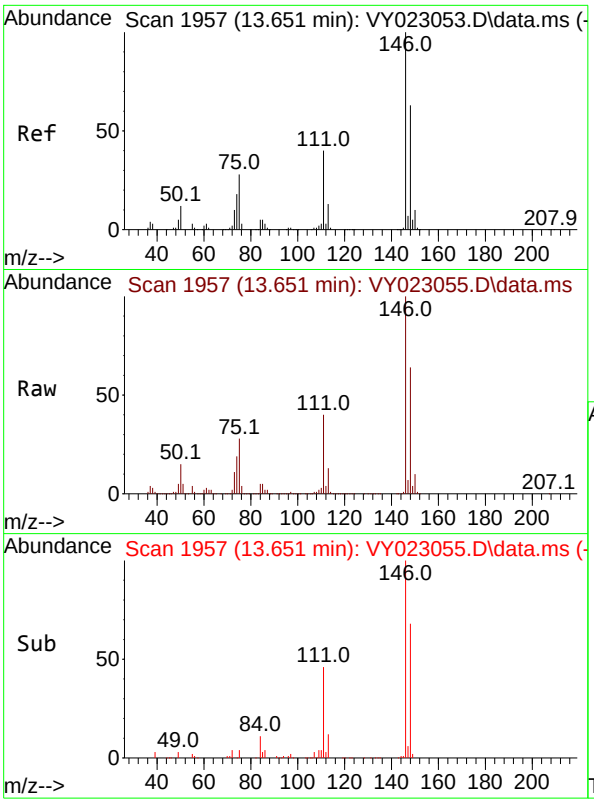


#90
Hexachloroethane
Concen: 154.073 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 772603

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1



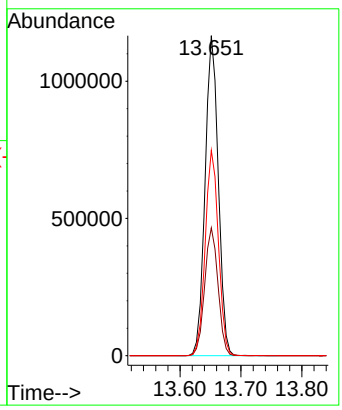


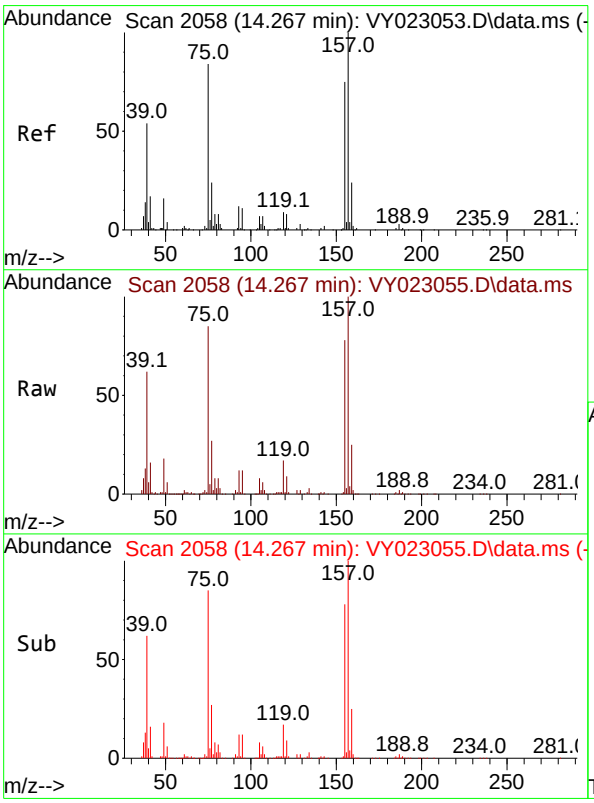
#91
1,2-Dichlorobenzene
Concen: 154.469 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1754100

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	60.8
148	64.2	32.2	96.6

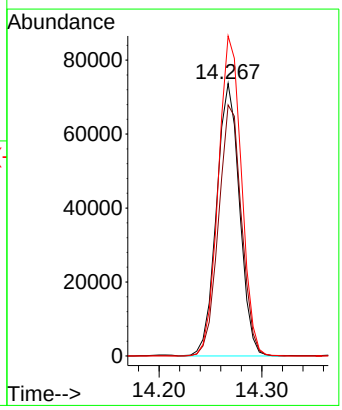


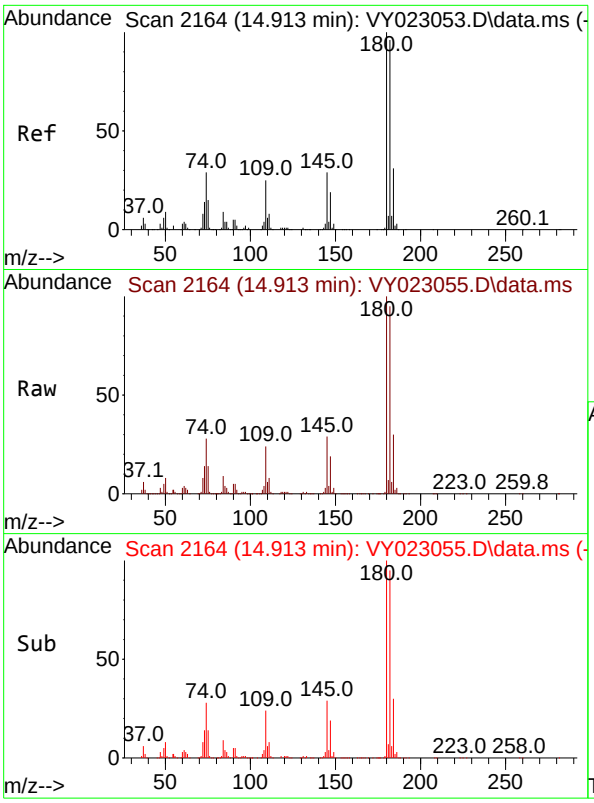


#92
1,2-Dibromo-3-Chloropropane
Concen: 156.498 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 114505

Ion	Ratio	Lower	Upper
75	100		
155	91.8	43.9	131.6
157	117.9	57.2	171.6



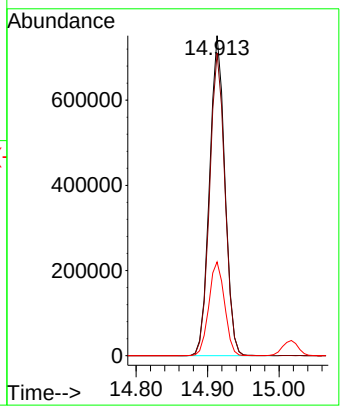


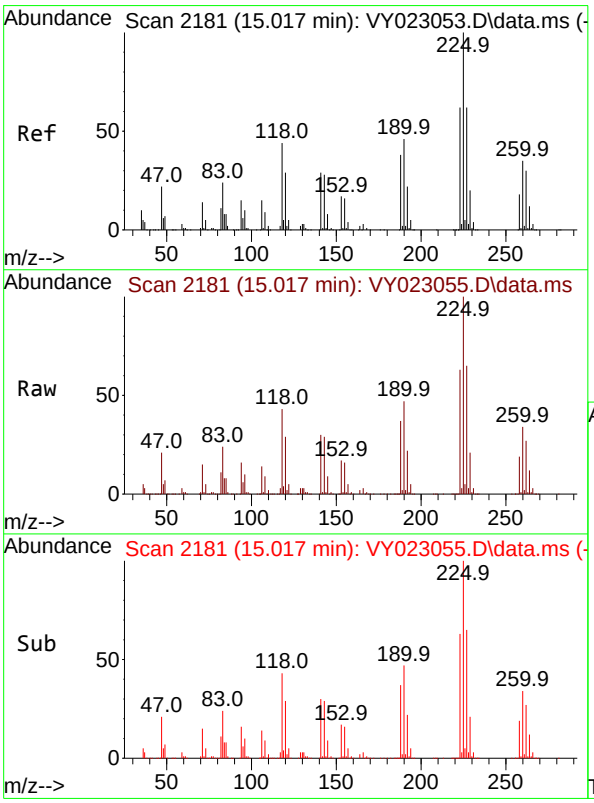
#93
1,2,4-Trichlorobenzene
Concen: 166.397 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 1117401

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.8	140.4
145	30.0	14.4	43.4

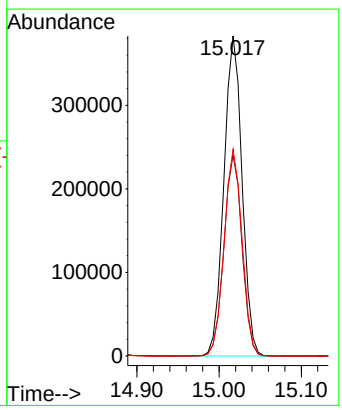


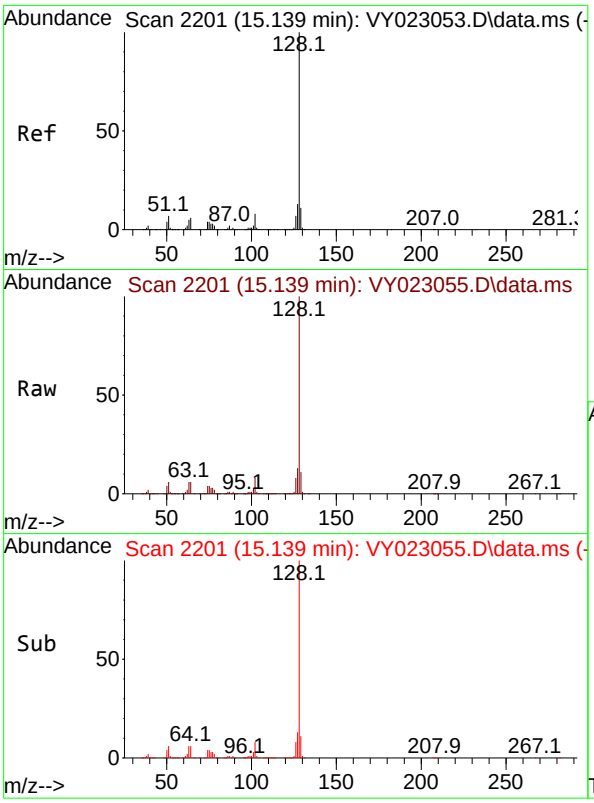


#94
Hexachlorobutadiene
Concen: 149.352 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:225 Resp: 589351

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.3	93.8
227	63.8	31.5	94.5



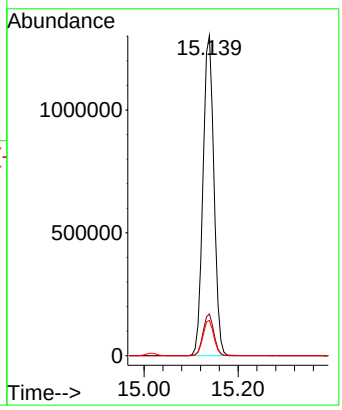


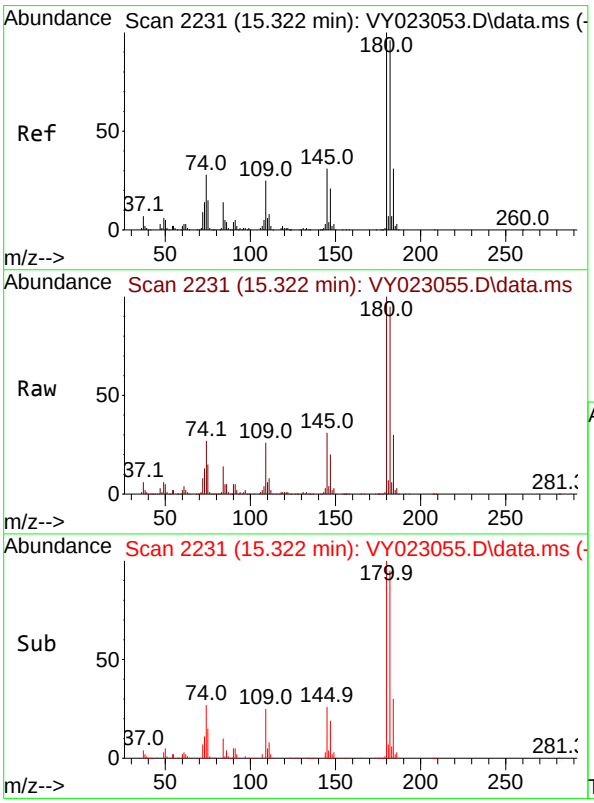
#95
Naphthalene
Concen: 182.954 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 2094983

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.0	9.0	13.4

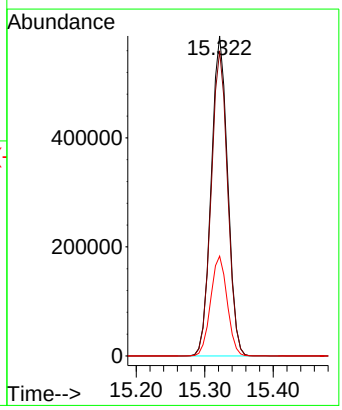




#96
1,2,3-Trichlorobenzene
Concen: 168.557 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:180 Resp: 975366

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.7
145	31.4	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	528657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	849851	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	756555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	376990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	252116	50.038	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.080%			
35) Dibromofluoromethane	7.628	113	255171	50.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.360%			
50) Toluene-d8	10.103	98	979510	49.306	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.402	95	329022	51.500	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	179421	41.579	ug/l	99
3) Chloromethane	2.068	50	340600	48.732	ug/l	100
4) Vinyl Chloride	2.202	62	416413	48.198	ug/l	99
5) Bromomethane	2.592	94	303147	46.983	ug/l	98
6) Chloroethane	2.733	64	281008	48.923	ug/l	99
7) Trichlorofluoromethane	3.050	101	493782	47.003	ug/l	100
8) Diethyl Ether	3.452	74	132818	47.787	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	247351	47.725	ug/l	99
10) Methyl Iodide	4.001	142	287126	51.340	ug/l	99
11) Tert butyl alcohol	4.860	59	84906	245.940	ug/l	98
12) 1,1-Dichloroethene	3.787	96	242931	47.686	ug/l	95
13) Acrolein	3.647	56	112246	222.008	ug/l	98
14) Allyl chloride	4.379	41	354691	47.317	ug/l	99
15) Acrylonitrile	5.055	53	274329	242.779	ug/l	99
16) Acetone	3.867	43	229985	210.695	ug/l	96
17) Carbon Disulfide	4.104	76	779852	46.948	ug/l	99
18) Methyl Acetate	4.385	43	168821	51.972	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	658713	49.899	ug/l	100
20) Methylene Chloride	4.610	84	283386	49.960	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	279182	48.765	ug/l	98
22) Diisopropyl ether	6.019	45	814622	50.011	ug/l	97
23) Vinyl Acetate	5.958	43	2182924	242.360	ug/l	100
24) 1,1-Dichloroethane	5.915	63	483509	48.551	ug/l	100
25) 2-Butanone	6.890	43	341490	230.028	ug/l	99
26) 2,2-Dichloropropane	6.884	77	390777	45.475	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	322451	48.720	ug/l	99
28) Bromochloromethane	7.238	49	198640	50.275	ug/l	100
29) Tetrahydrofuran	7.262	42	227680	247.420	ug/l	100
30) Chloroform	7.421	83	497627	48.450	ug/l	97
31) Cyclohexane	7.695	56	436638	46.526	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	445943	48.933	ug/l	100
36) 1,1-Dichloropropene	7.829	75	364210	48.193	ug/l	99
37) Ethyl Acetate	6.982	43	157530	49.621	ug/l	99
38) Carbon Tetrachloride	7.817	117	394245	48.030	ug/l	99
39) Methylcyclohexane	9.103	83	493867	49.625	ug/l	98
40) Benzene	8.073	78	1128023	48.428	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	88437	48.269	ug/l		99
42) 1,2-Dichloroethane	8.152	62	291766	48.162	ug/l		100
43) Isopropyl Acetate	8.195	43	315013	49.094	ug/l		98
44) Trichloroethene	8.860	130	287745	47.803	ug/l		95
45) 1,2-Dichloropropane	9.140	63	262408	48.961	ug/l		98
46) Dibromomethane	9.225	93	149745	48.679	ug/l		99
47) Bromodichloromethane	9.420	83	391522	49.463	ug/l		98
48) Methyl methacrylate	9.219	41	155118	50.520	ug/l		99
49) 1,4-Dioxane	9.225	88	35050	971.749	ug/l		98
51) 4-Methyl-2-Pentanone	9.993	43	823949	248.943	ug/l		99
52) Toluene	10.164	92	724356	48.963	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	356228	49.699	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	415017	48.965	ug/l		97
55) 1,1,2-Trichloroethane	10.567	97	201146	48.867	ug/l		98
56) Ethyl methacrylate	10.432	69	267458	50.779	ug/l		99
57) 1,3-Dichloropropane	10.713	76	343649	49.228	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	678865	273.240	ug/l		100
59) 2-Hexanone	10.756	43	551743	244.812	ug/l		99
60) Dibromochloromethane	10.908	129	270536	49.810	ug/l		99
61) 1,2-Dibromoethane	11.012	107	190334	49.197	ug/l		100
64) Tetrachloroethene	10.640	164	307456	45.512	ug/l		98
65) Chlorobenzene	11.438	112	787799	48.275	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	270360	48.815	ug/l		99
67) Ethyl Benzene	11.512	91	1380648	49.163	ug/l		100
68) m/p-Xylenes	11.621	106	1080541	98.515	ug/l		99
69) o-Xylene	11.950	106	509991	49.645	ug/l		99
70) Styrene	11.963	104	852310	50.733	ug/l		99
71) Bromoform	12.127	173	157073	48.525	ug/l	#	98
73) Isopropylbenzene	12.249	105	1327070	49.876	ug/l		100
74) N-amyl acetate	12.066	43	285118	50.529	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	224206	49.350	ug/l		98
76) 1,2,3-Trichloropropane	12.548	75	294203	80.862	ug/l	#	100
77) Bromobenzene	12.524	156	311065	49.004	ug/l		99
78) n-propylbenzene	12.591	91	1610911	50.853	ug/l		100
79) 2-Chlorotoluene	12.676	91	905657	49.898	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1094902	50.916	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	74263	49.409	ug/l		98
82) 4-Chlorotoluene	12.774	91	932114	49.505	ug/l		100
83) tert-Butylbenzene	12.993	119	979692	50.443	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	1092616	51.042	ug/l		100
85) sec-Butylbenzene	13.170	105	1459437	51.154	ug/l		100
86) p-Isopropyltoluene	13.286	119	1222900	51.639	ug/l		100
87) 1,3-Dichlorobenzene	13.280	146	621371	49.639	ug/l		98
88) 1,4-Dichlorobenzene	13.359	146	602429	48.514	ug/l		99
89) n-Butylbenzene	13.609	91	1122189	51.594	ug/l		100
90) Hexachloroethane	13.871	117	245386	50.617	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	540506	49.234	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35428	50.085	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	320472	49.363	ug/l		99
94) Hexachlorobutadiene	15.017	225	184430	48.344	ug/l		99
95) Naphthalene	15.139	128	571480	51.623	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	272638	48.735	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

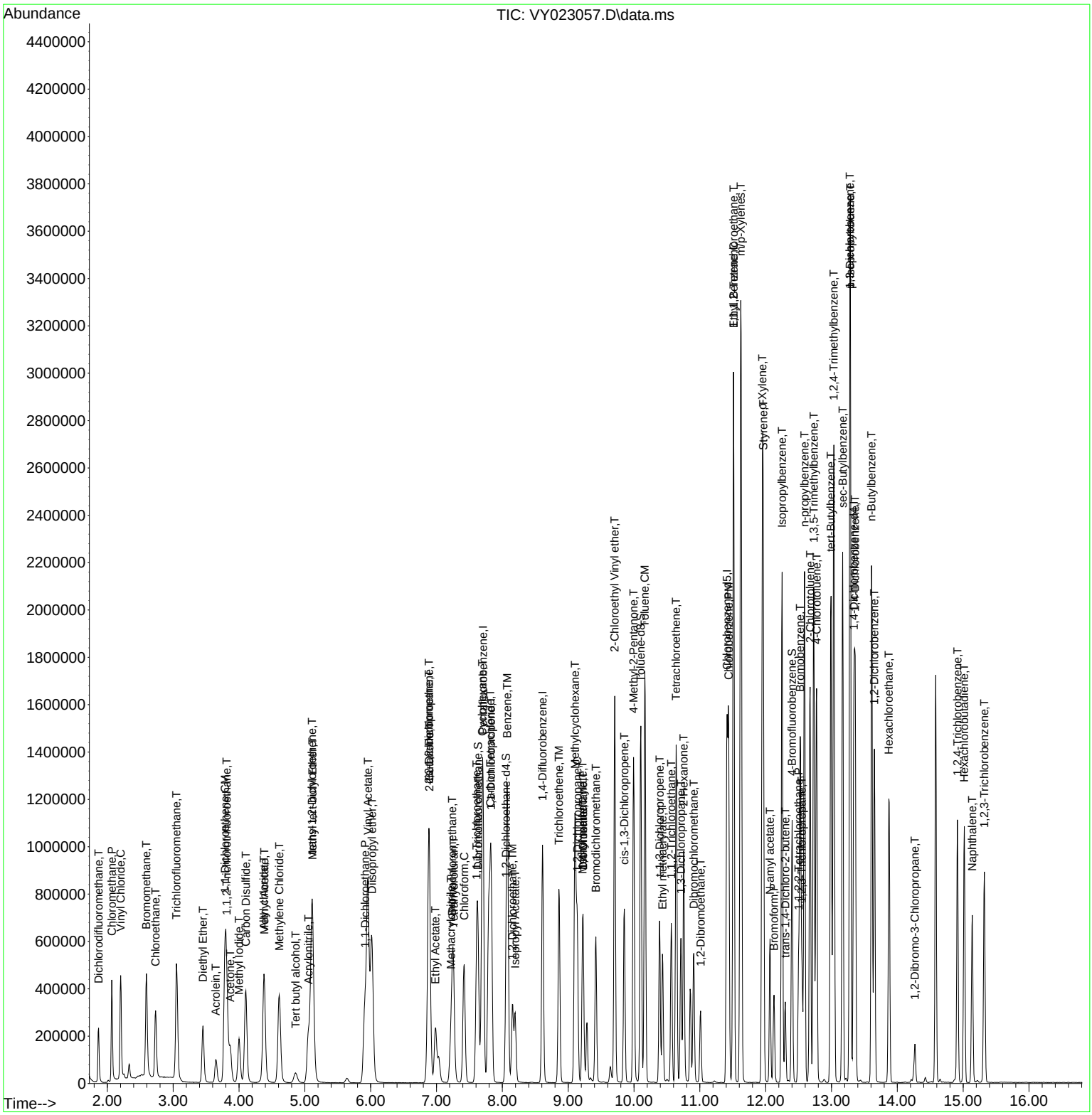
(#) = qualifier out of range (m) = manual integration (+) = signals summed

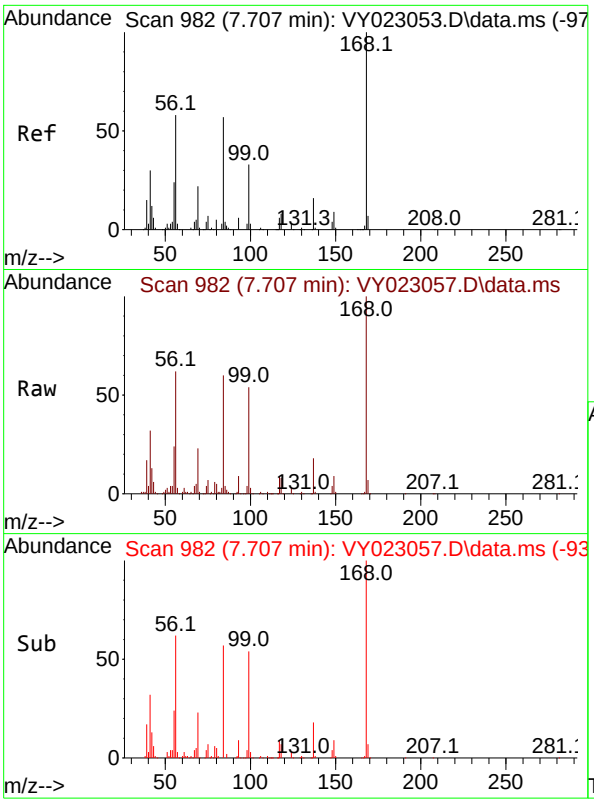
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



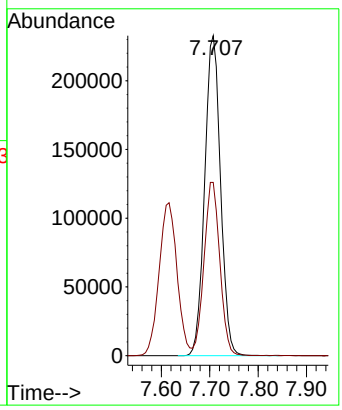


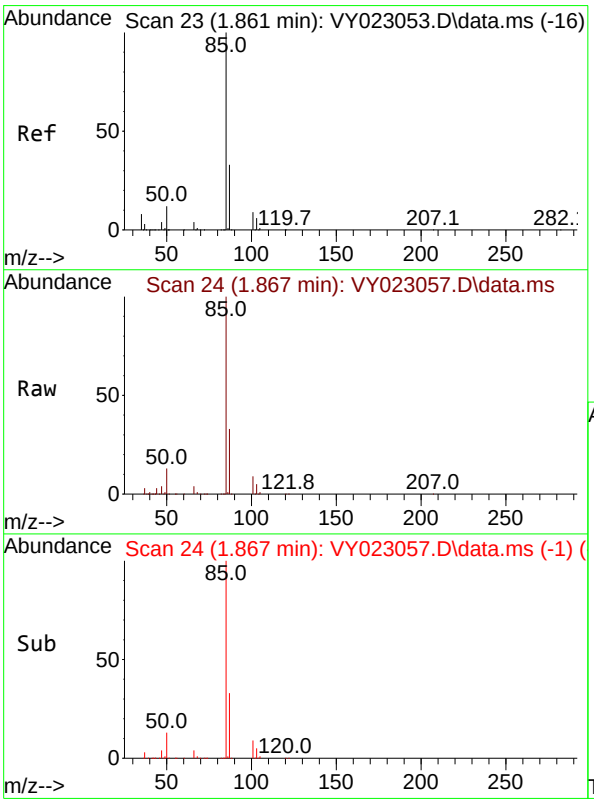
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:168 Resp: 528657

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2

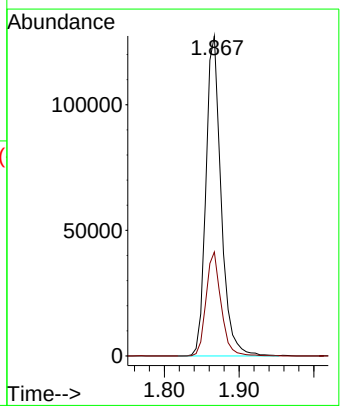


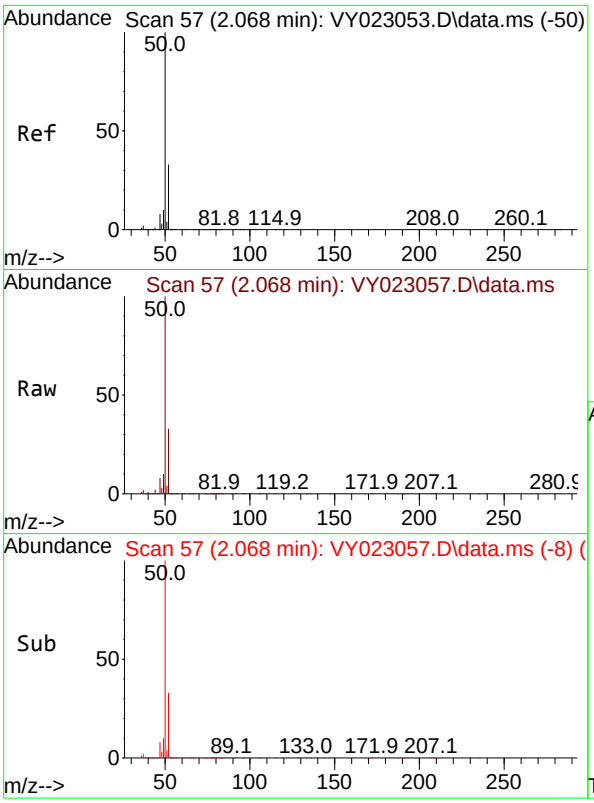


#2
Dichlorodifluoromethane
Concen: 41.579 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 85 Resp: 179421

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.6	49.8



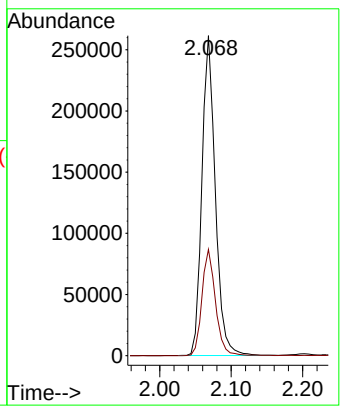


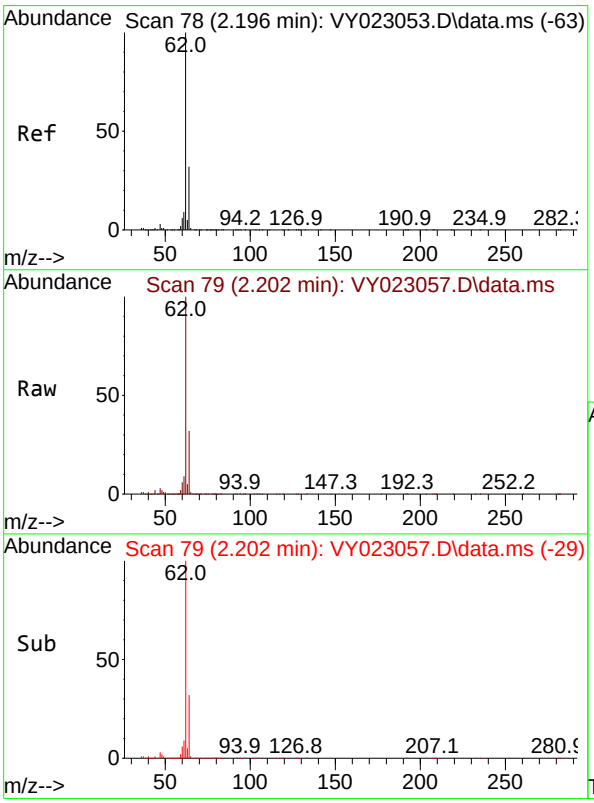
#3
Chloromethane
Concen: 48.732 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 50 Resp: 340600

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.7	40.1

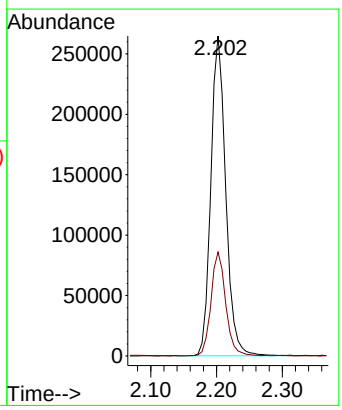


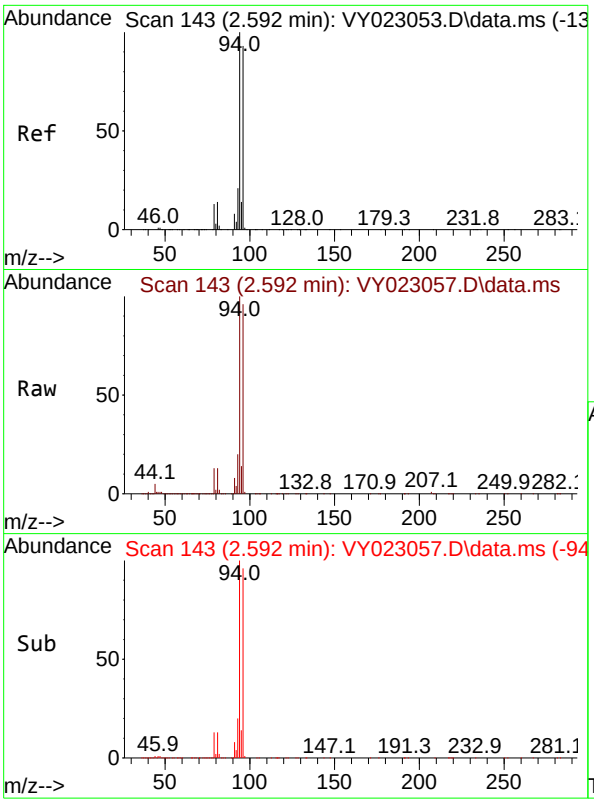


#4
Vinyl Chloride
Concen: 48.198 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 416413

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0



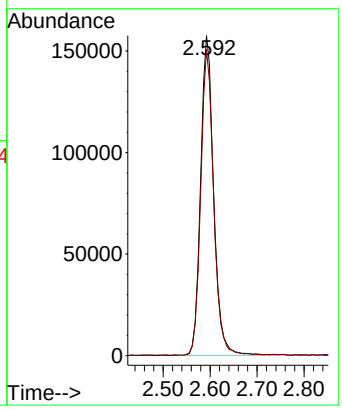


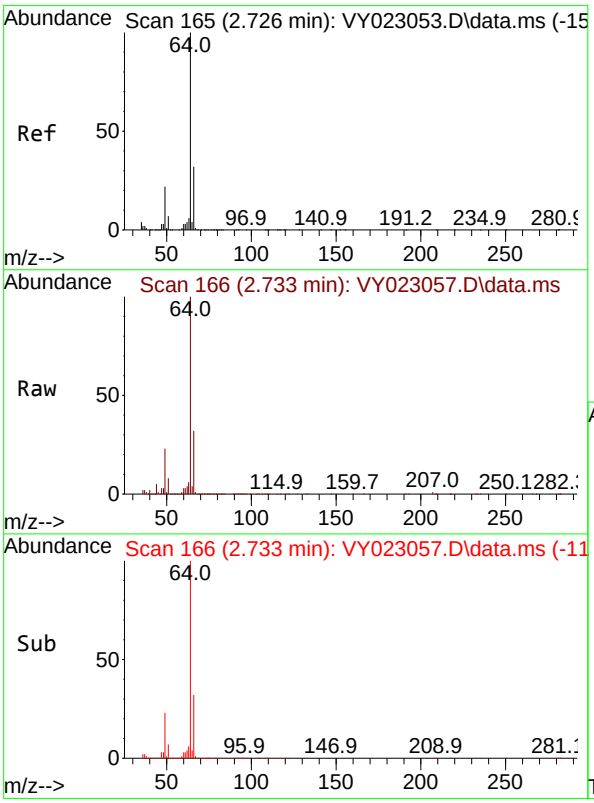
#5
Bromomethane
Concen: 46.983 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 94 Resp: 303147

Ion	Ratio	Lower	Upper
94	100		
96	95.7	74.6	112.0

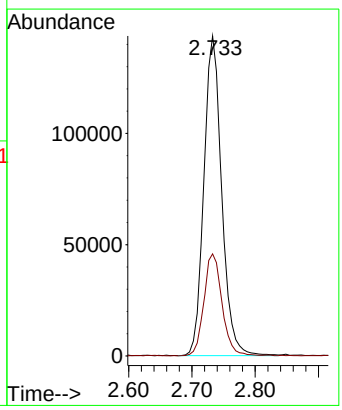


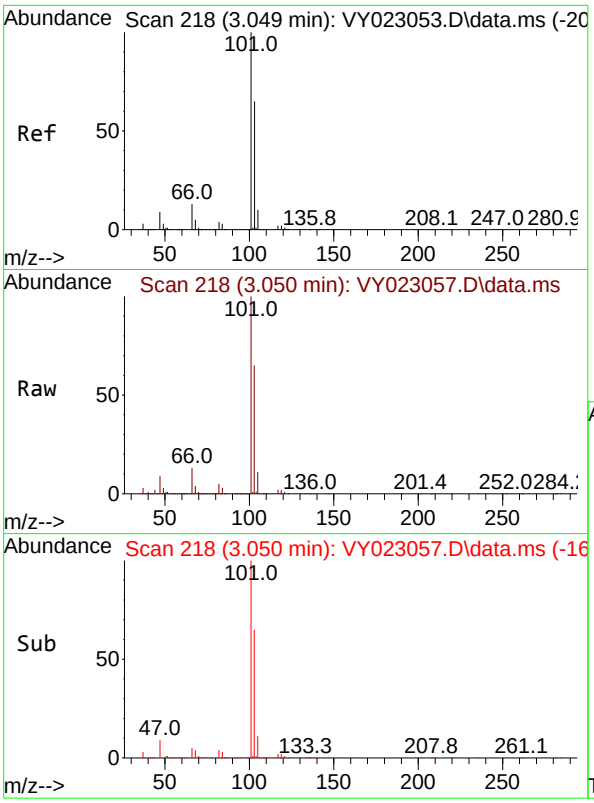


#6
Chloroethane
Concen: 48.923 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 64 Resp: 281008

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.8	38.6



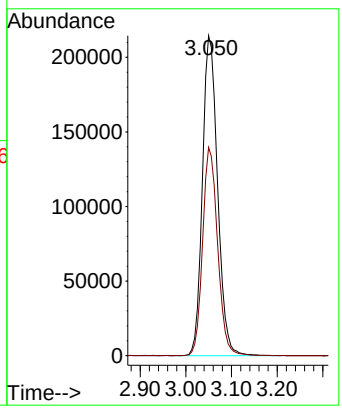


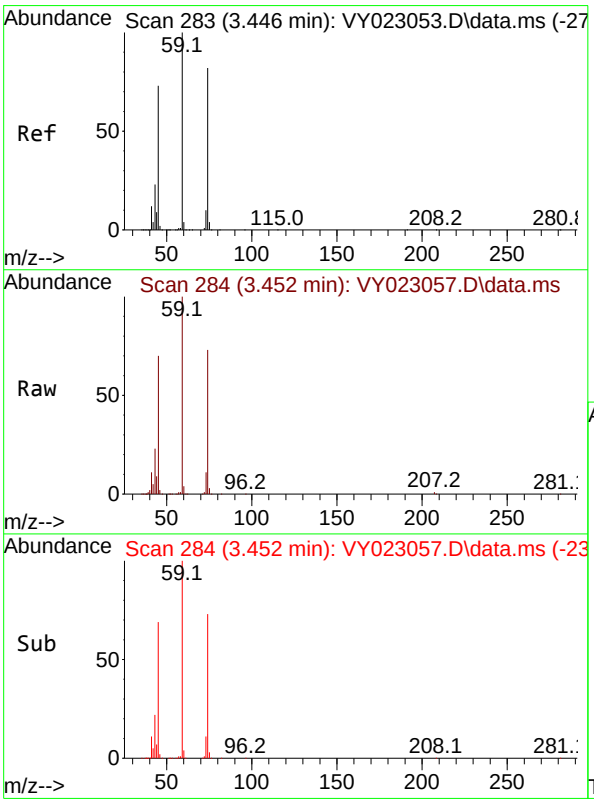
#7
Trichlorofluoromethane
Concen: 47.003 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:101 Resp: 493782

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.9	77.9

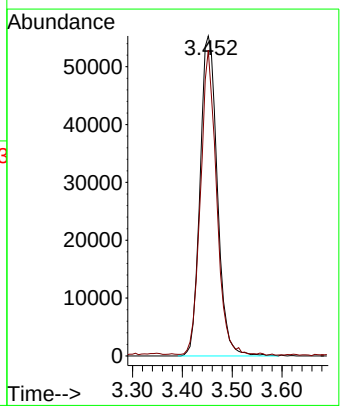


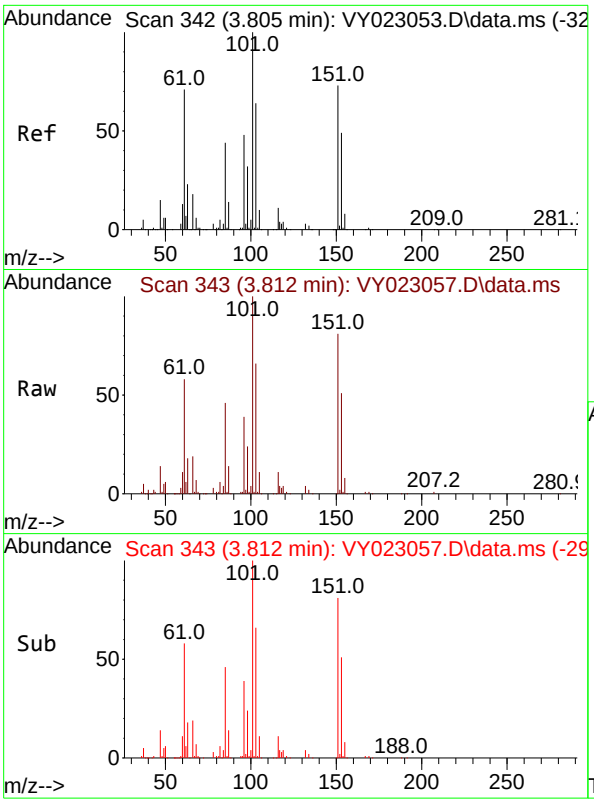


#8
Diethyl Ether
Concen: 47.787 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 74 Resp: 132818

Ion	Ratio	Lower	Upper
74	100		
45	88.1	44.4	133.2



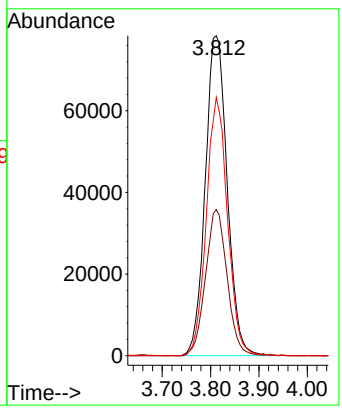


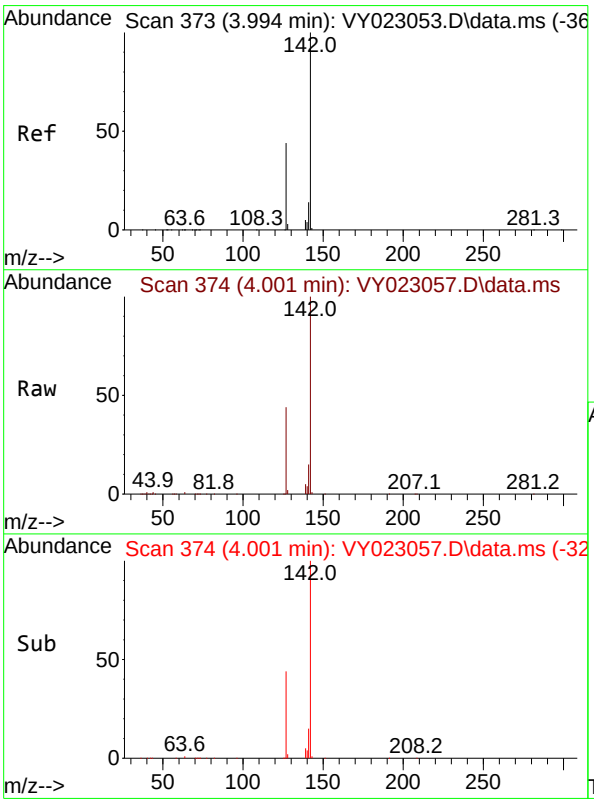
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.725 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:101 Resp: 247351

Ion	Ratio	Lower	Upper
101	100		
85	44.9	36.3	54.5
151	77.9	61.5	92.3

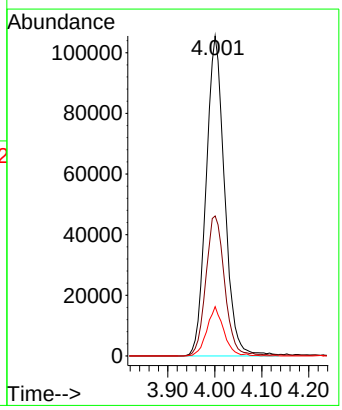


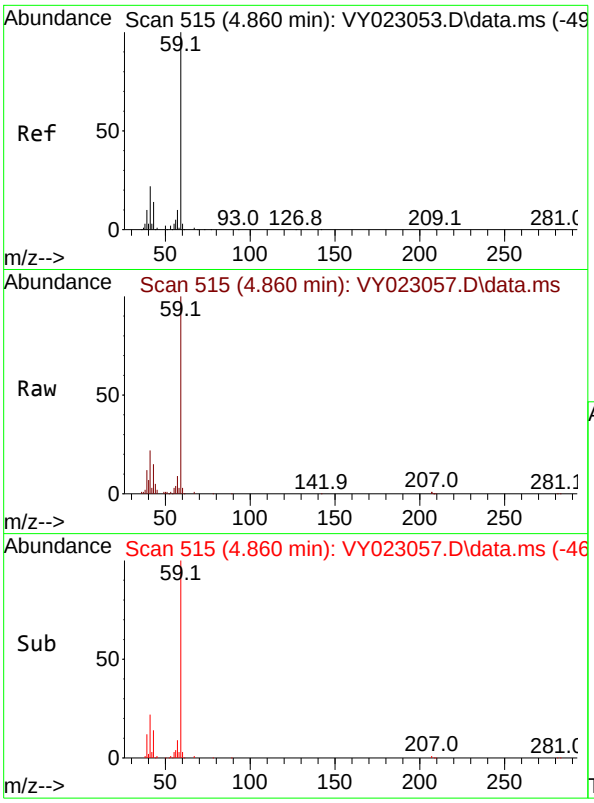


#10
Methyl Iodide
Concen: 51.340 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:142 Resp: 287126

Ion	Ratio	Lower	Upper
142	100		
127	44.8	34.9	52.3
141	14.1	11.3	16.9



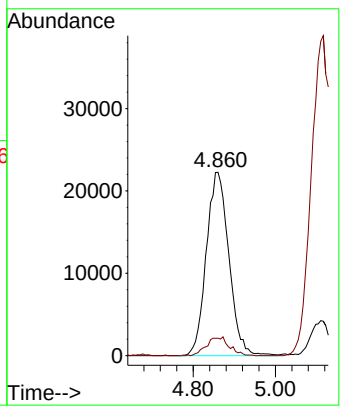


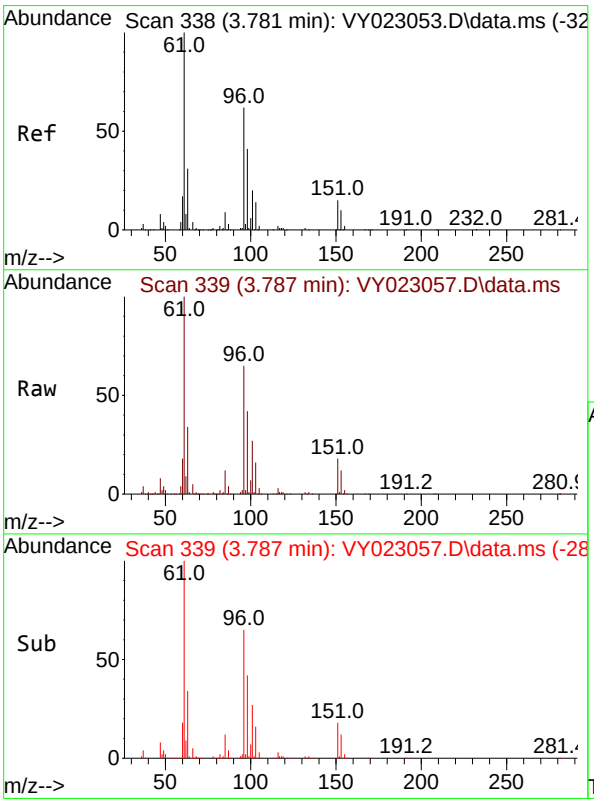
#11
Tert butyl alcohol
Concen: 245.940 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 59 Resp: 84906

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	13.0

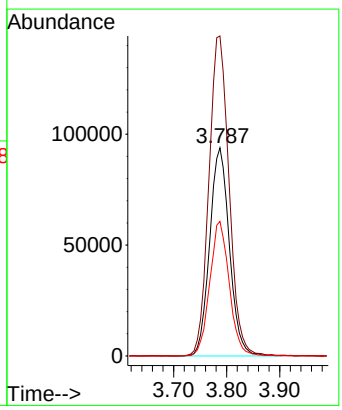


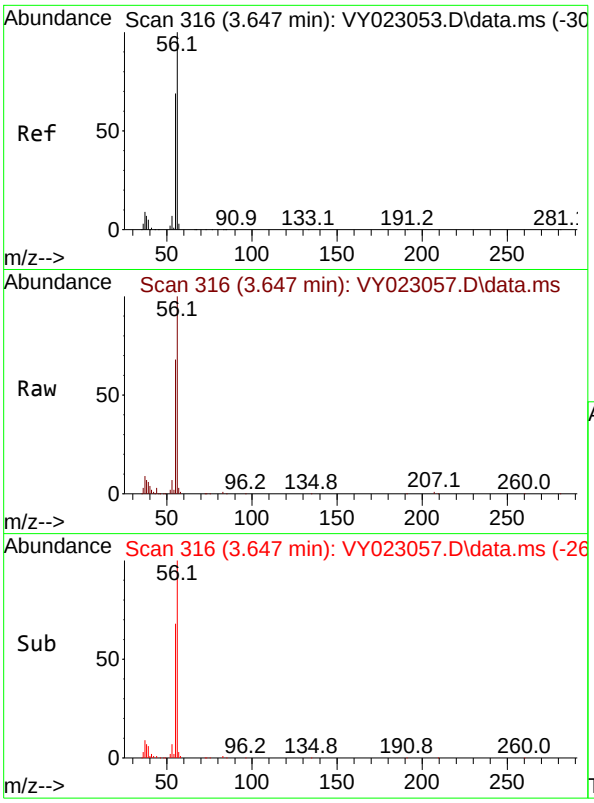


#12
1,1-Dichloroethene
Concen: 47.686 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 242931

Ion	Ratio	Lower	Upper
96	100		
61	153.7	129.4	194.2
98	64.6	52.8	79.2



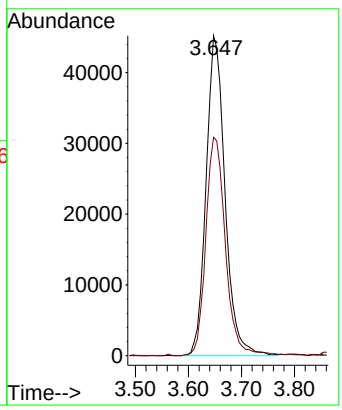


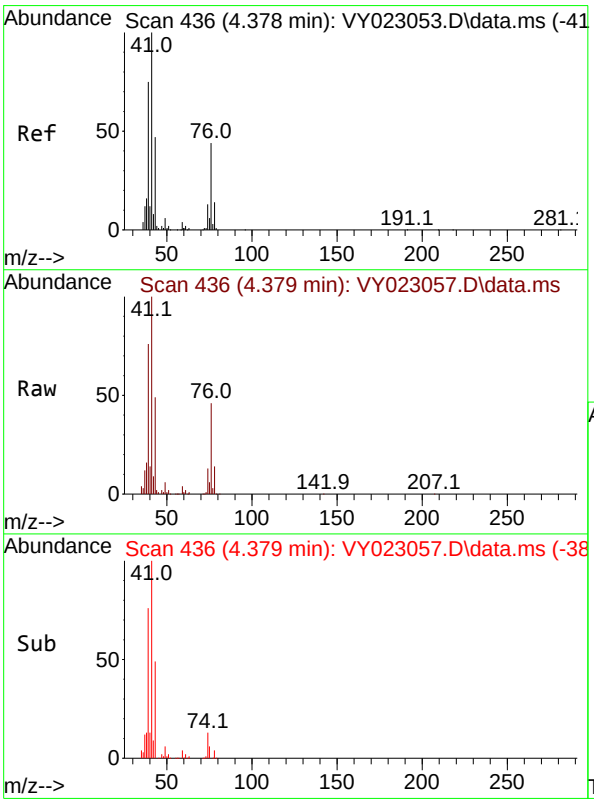
#13
Acrolein
Concen: 222.008 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 56 Resp: 112246

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.2	82.8

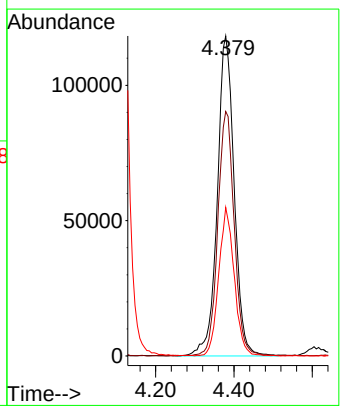


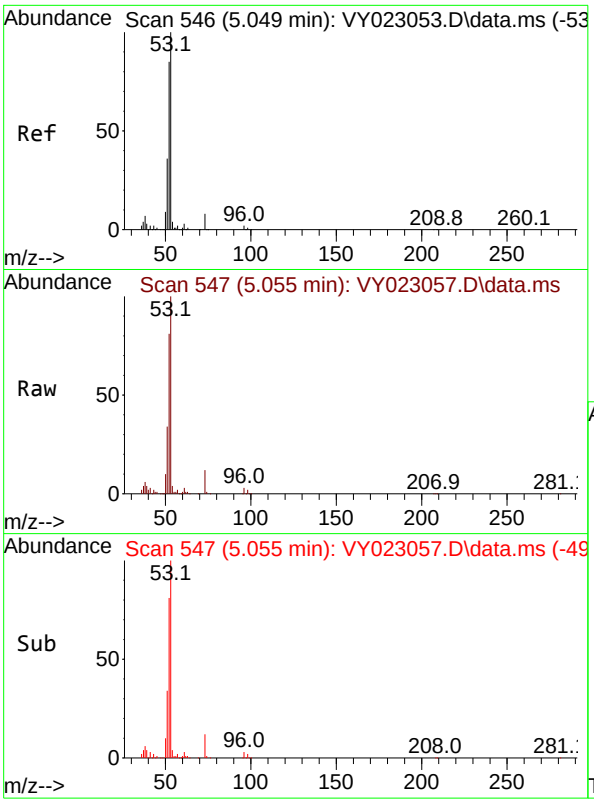


#14
Allyl chloride
Concen: 47.317 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 354691

Ion	Ratio	Lower	Upper
41	100		
39	74.2	59.8	89.6
76	42.7	33.7	50.5



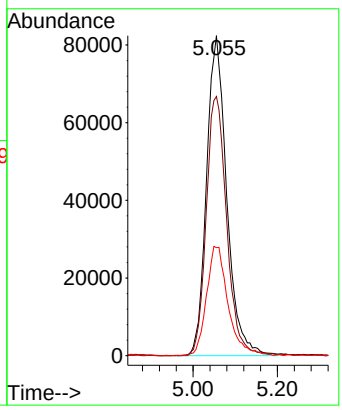


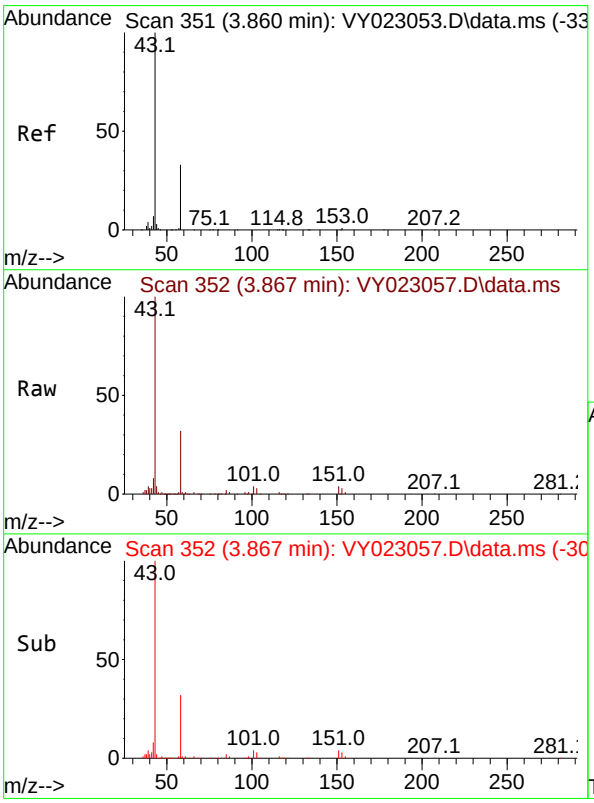
#15
Acrylonitrile
Concen: 242.779 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 53 Resp: 274329

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	36.5	29.5	44.3

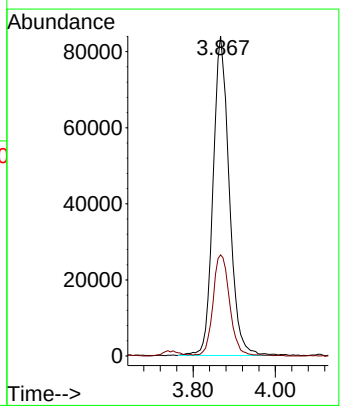


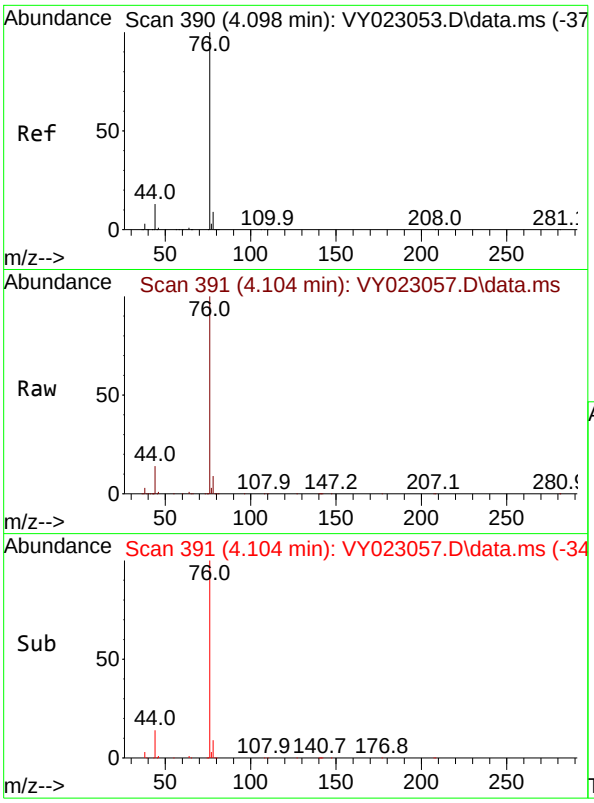


#16
Acetone
Concen: 210.695 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 229985

Ion	Ratio	Lower	Upper
43	100		
58	31.5	27.1	40.7



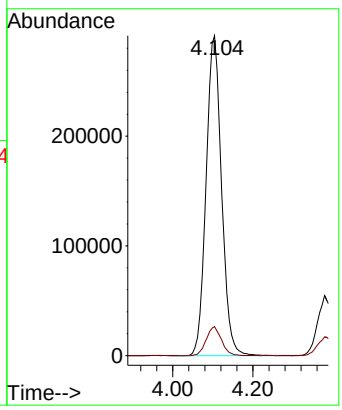


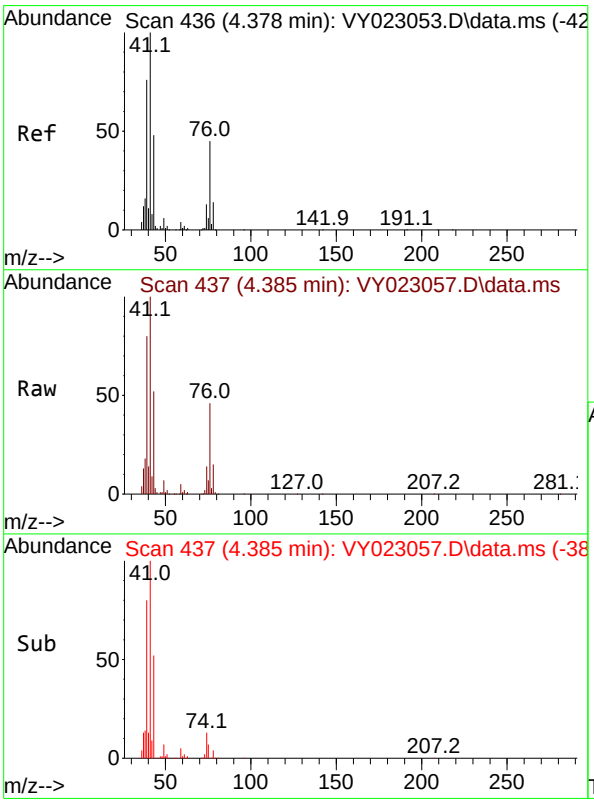
#17
Carbon Disulfide
Concen: 46.948 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 76 Resp: 779852

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2

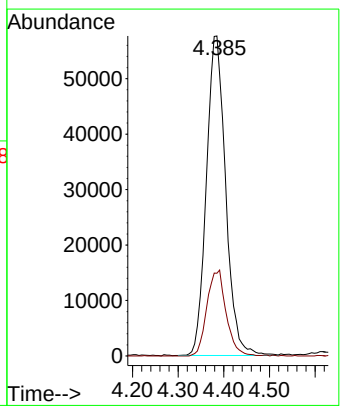


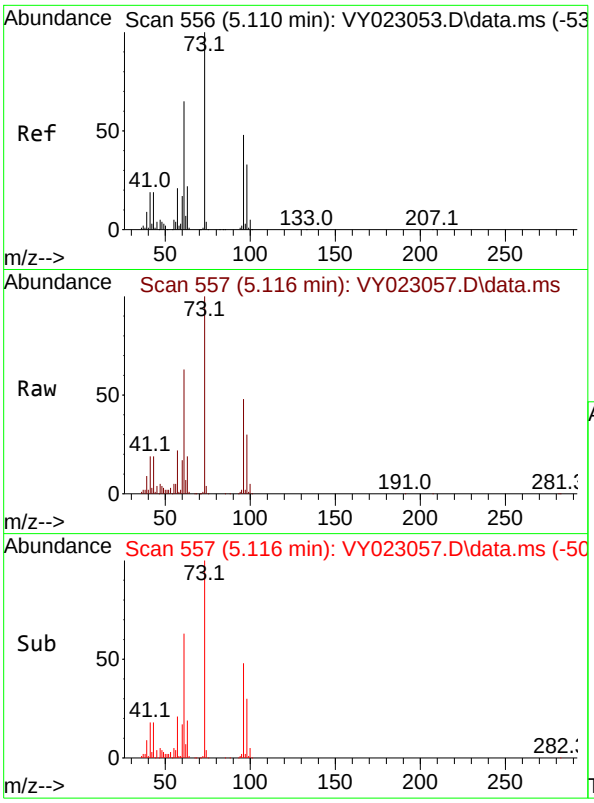


#18
Methyl Acetate
Concen: 51.972 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 168821

Ion	Ratio	Lower	Upper
43	100		
74	26.8	21.2	31.8



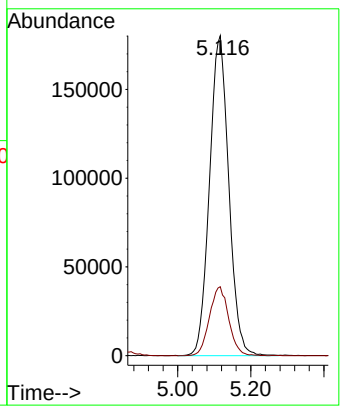


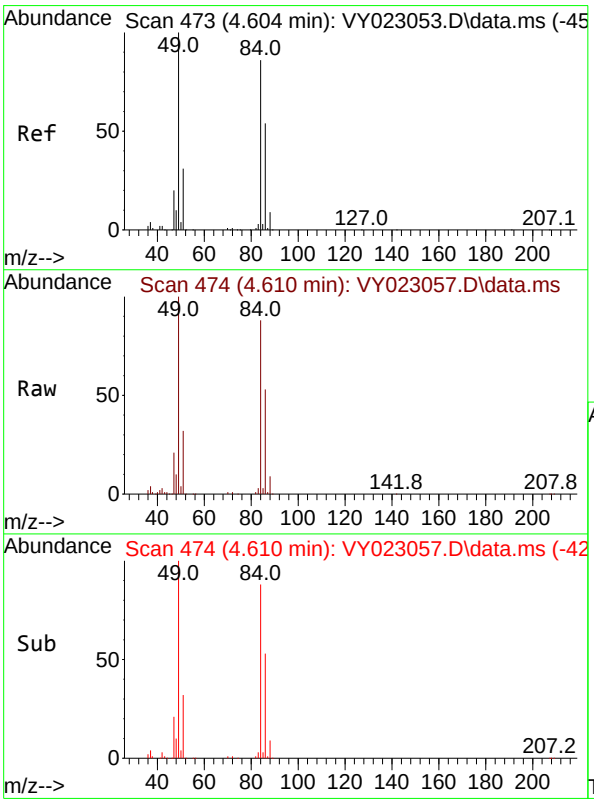
#19
Methyl tert-butyl Ether
Concen: 49.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 73 Resp: 658713

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

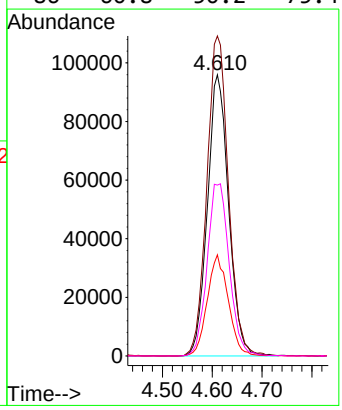


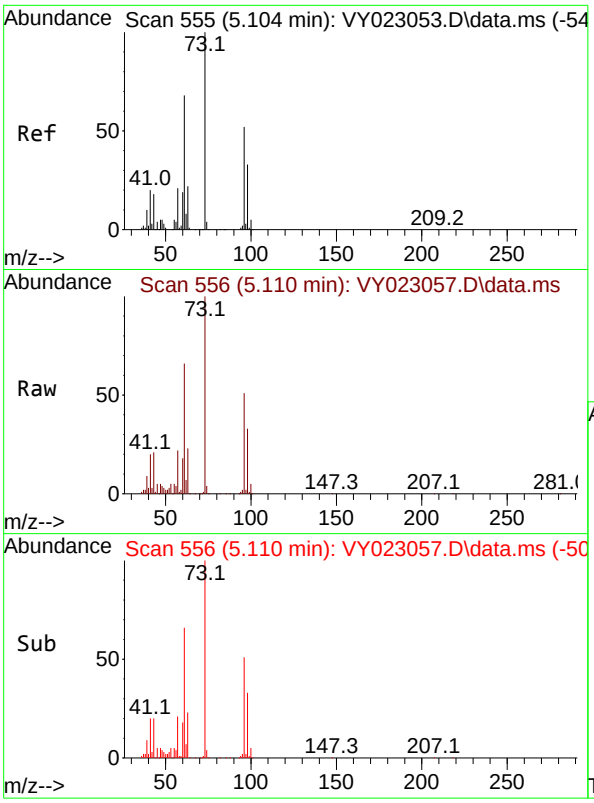


#20
Methylene Chloride
Concen: 49.960 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 84 Resp: 283386

Ion	Ratio	Lower	Upper
84	100		
49	113.8	93.0	139.6
51	36.0	29.0	43.4
86	60.8	50.2	75.4



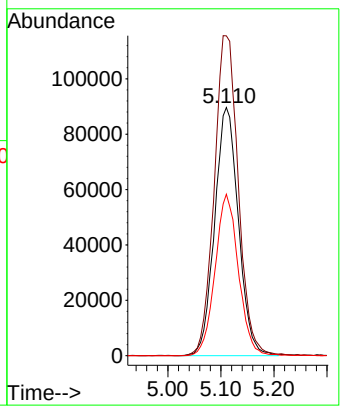


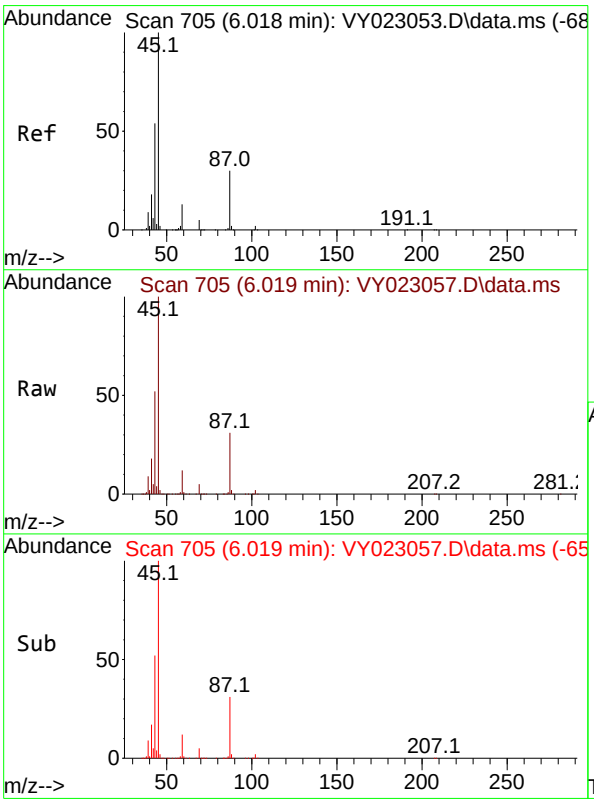
#21
trans-1,2-Dichloroethene
Concen: 48.765 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 96 Resp: 279182

Ion	Ratio	Lower	Upper
96	100		
61	128.9	104.8	157.2
98	65.0	50.1	75.1

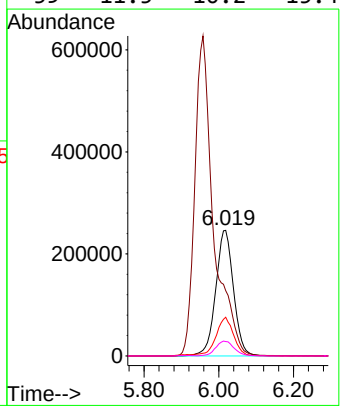


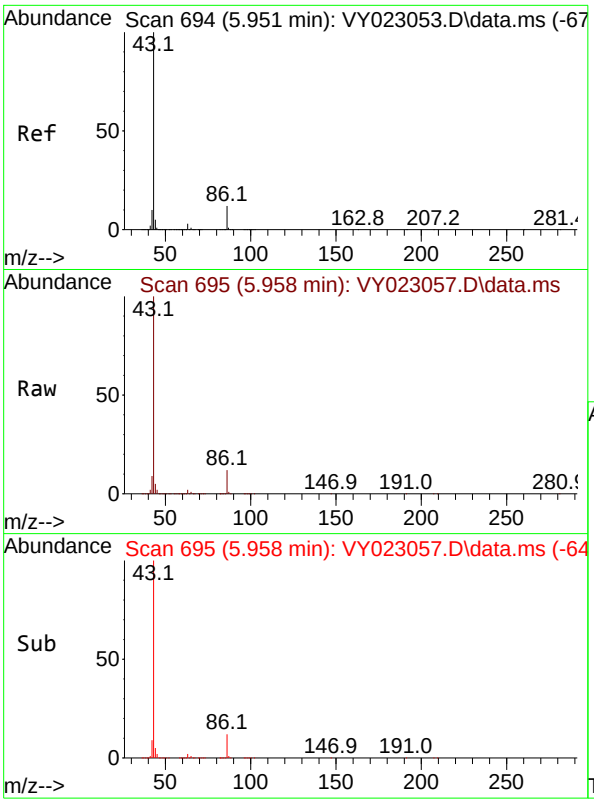


#22
Diisopropyl ether
Concen: 50.011 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 45 Resp: 814622

Ion	Ratio	Lower	Upper
45	100		
43	51.7	43.4	65.0
87	30.8	24.4	36.6
59	11.5	10.2	15.4



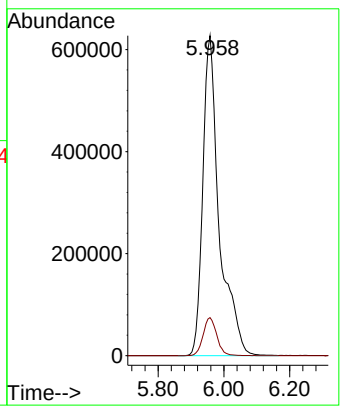


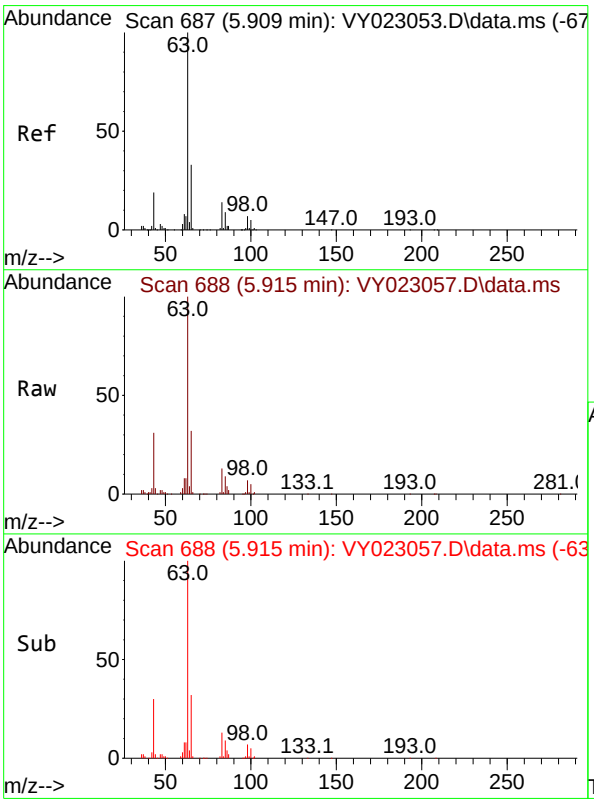
#23
Vinyl Acetate
Concen: 242.360 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 2182924

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

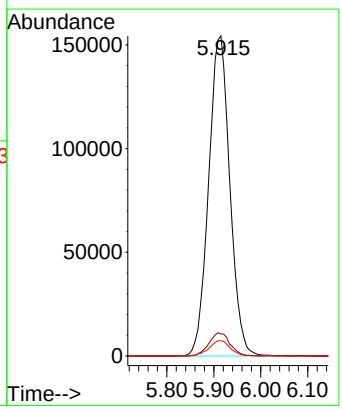


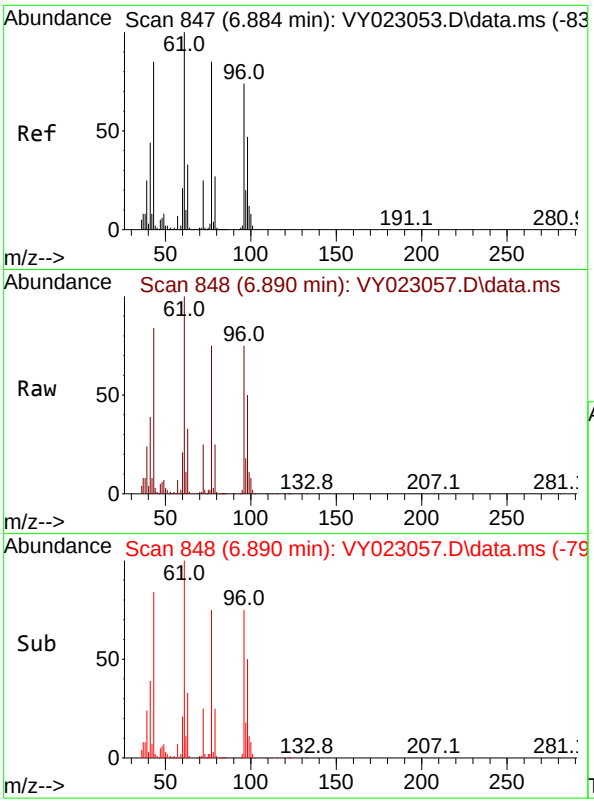


#24
1,1-Dichloroethane
Concen: 48.551 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 483509

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.6
100	4.7	2.4	7.1



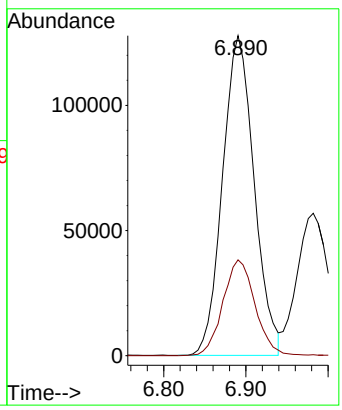


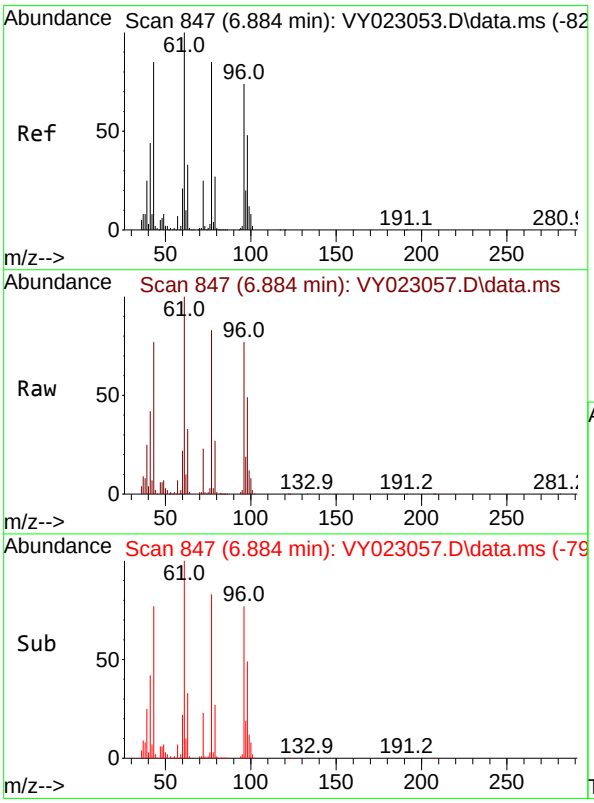
#25
2-Butanone
Concen: 230.028 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 341490

Ion	Ratio	Lower	Upper
43	100		
72	30.0	23.5	35.3

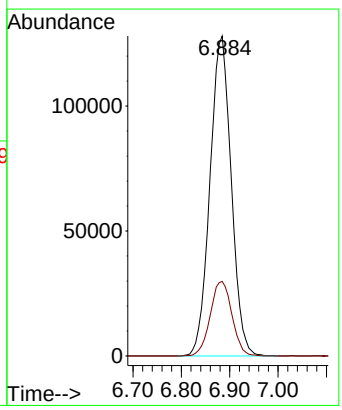


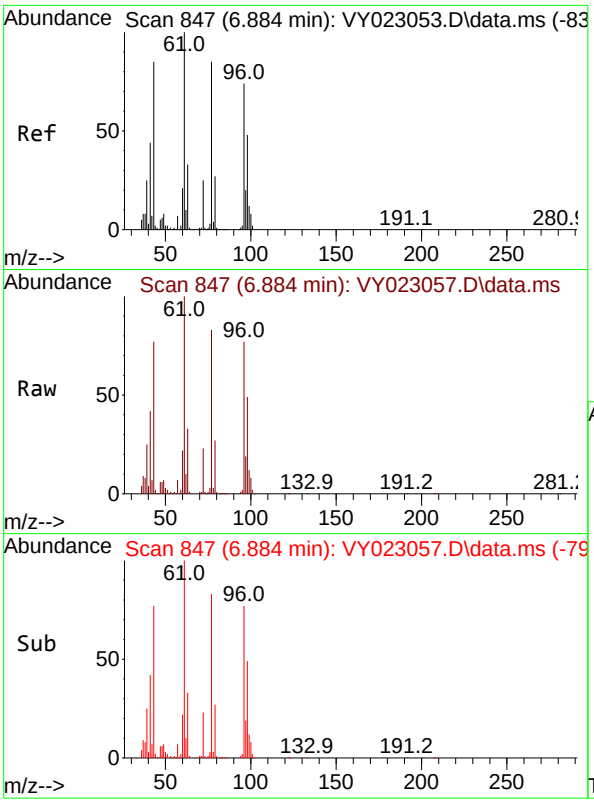


#26
2,2-Dichloropropane
Concen: 45.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 77 Resp: 390777

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8



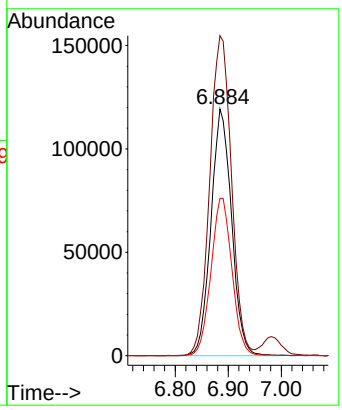


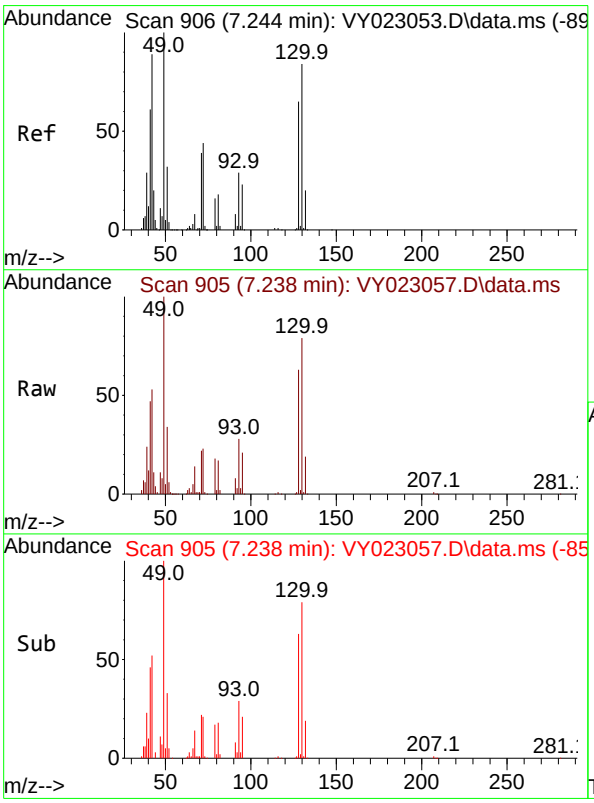
#27
cis-1,2-Dichloroethene
Concen: 48.720 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 96 Resp: 322451

Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	278.6
98	65.0	0.0	130.4

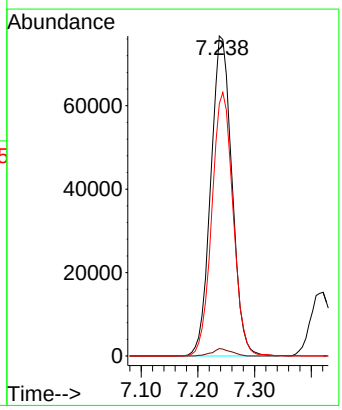


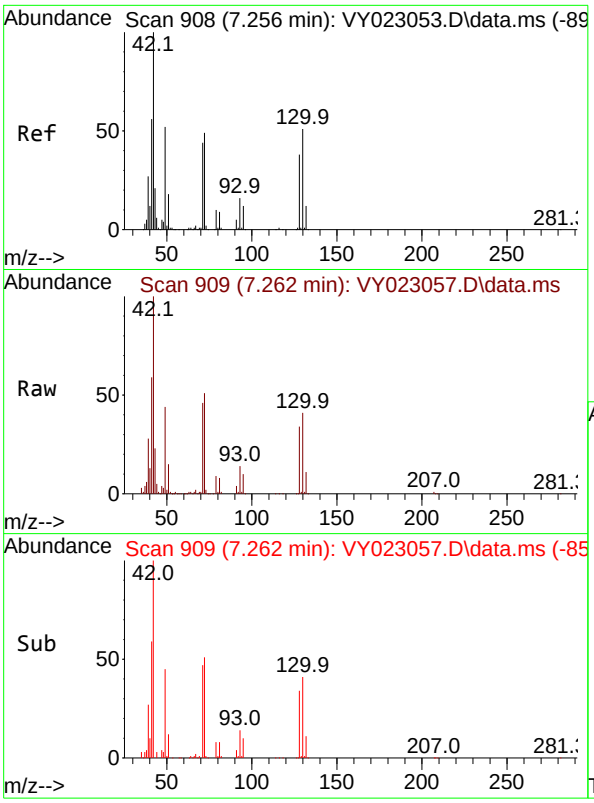


#28
Bromochloromethane
Concen: 50.275 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 49 Resp: 198640

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.6	66.4	99.6



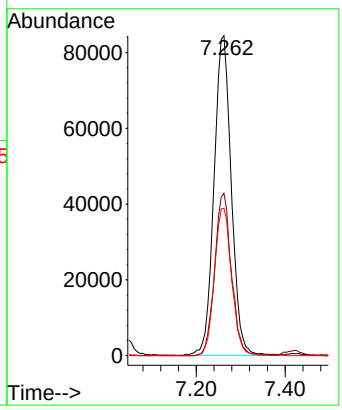


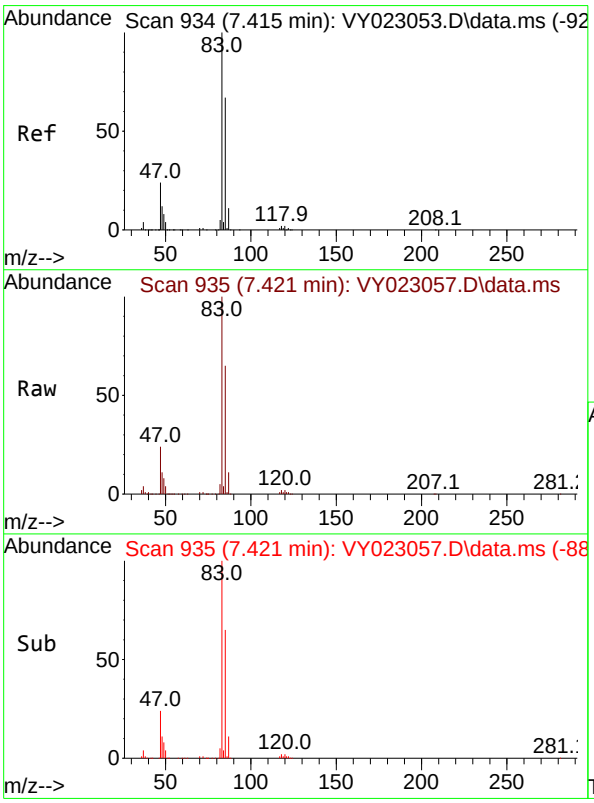
#29
Tetrahydrofuran
Concen: 247.420 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 42 Resp: 227680

Ion	Ratio	Lower	Upper
42	100		
72	49.3	39.4	59.2
71	45.7	36.5	54.7

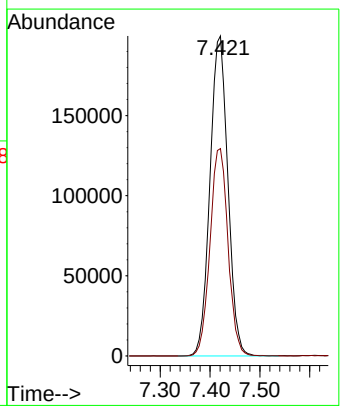


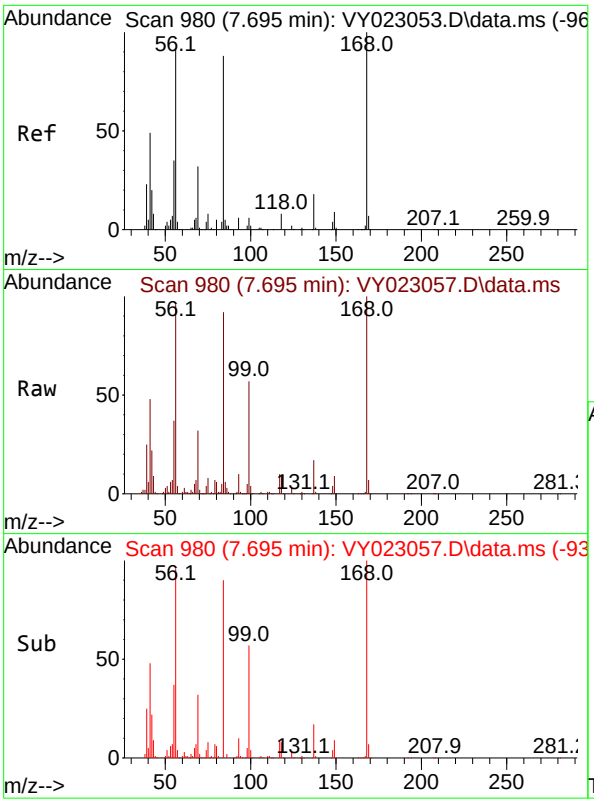


#30
Chloroform
Concen: 48.450 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 497627

Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.8	80.8



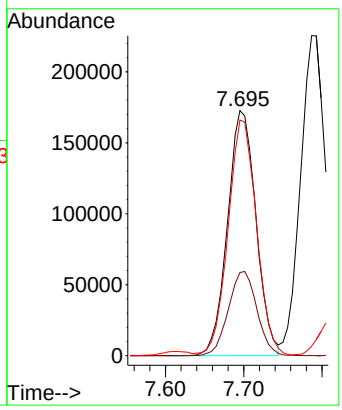


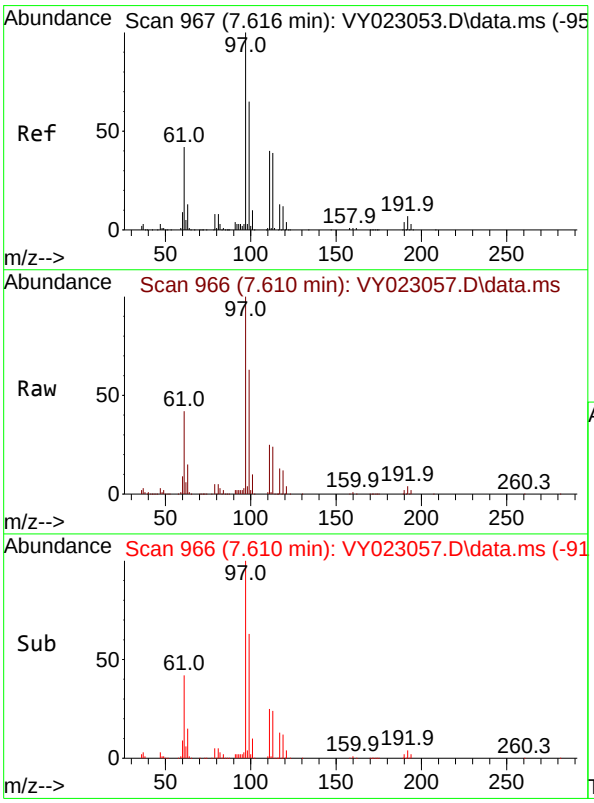
#31
Cyclohexane
Concen: 46.526 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 56 Resp: 436638

Ion	Ratio	Lower	Upper
56	100		
69	33.9	28.2	42.2
84	94.5	76.6	114.8

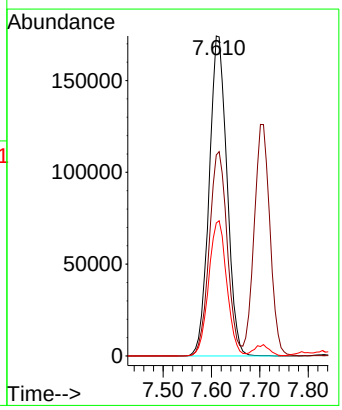


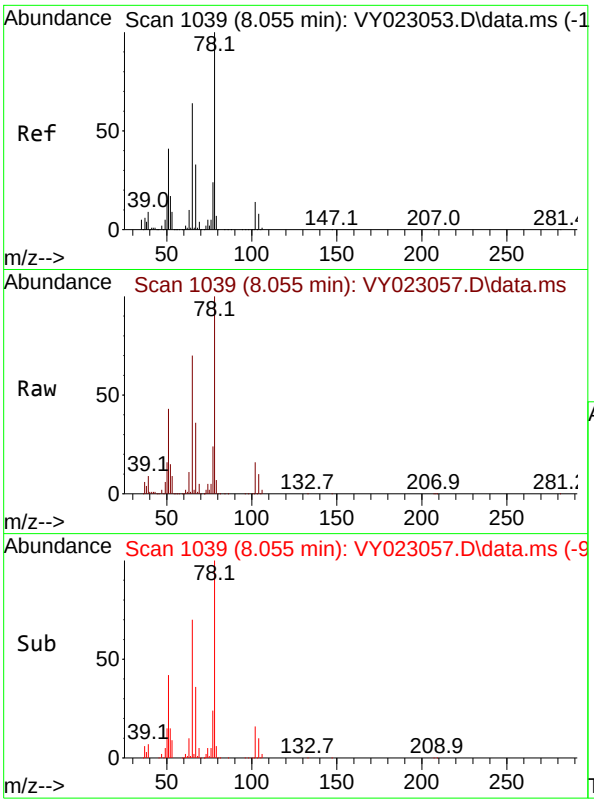


#32
1,1,1-Trichloroethane
Concen: 48.933 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 97 Resp: 445943

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.6	77.4
61	43.0	34.2	51.2



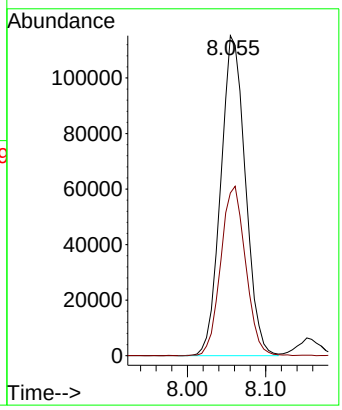


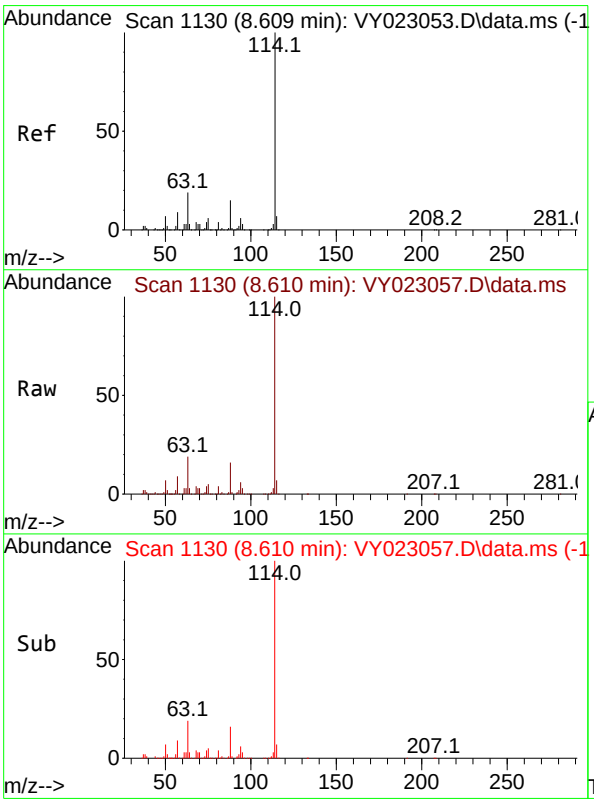
#33
1,2-Dichloroethane-d4
Concen: 50.038 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 65 Resp: 252116

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

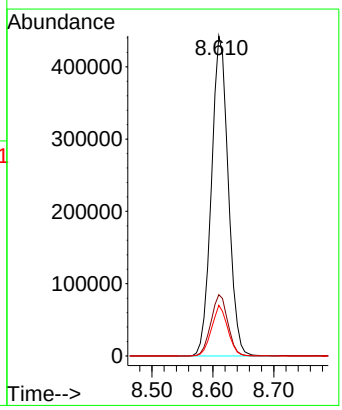


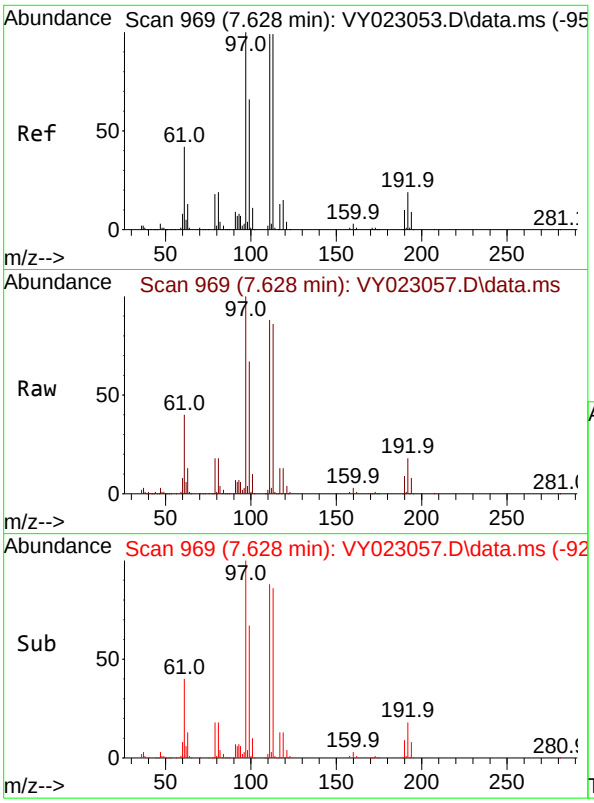


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:114 Resp: 849851

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	15.9	0.0	30.0



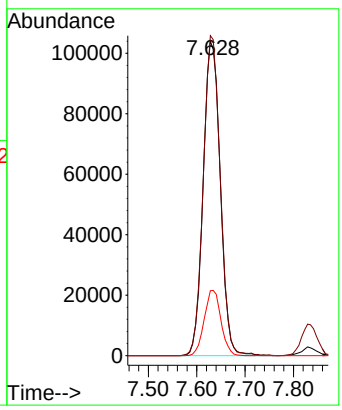


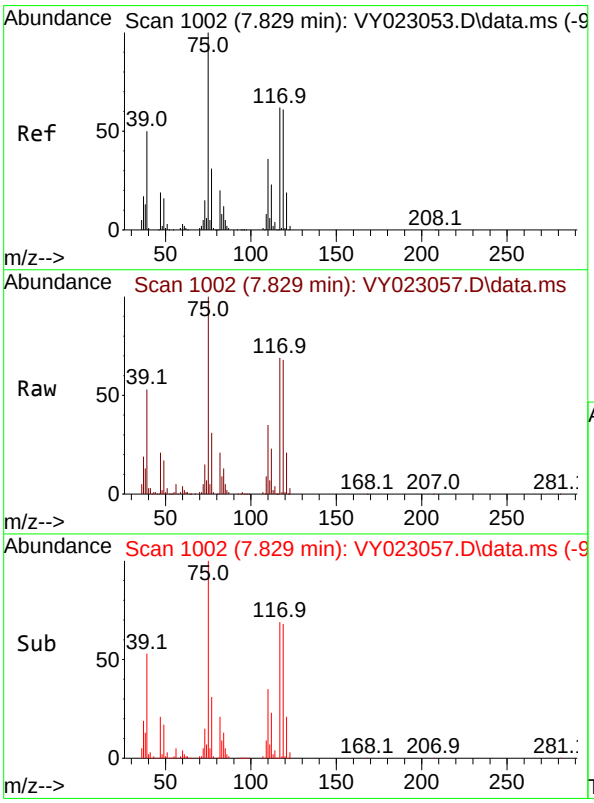
#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:113 Resp: 255171

Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.1	121.7
192	20.4	16.2	24.4

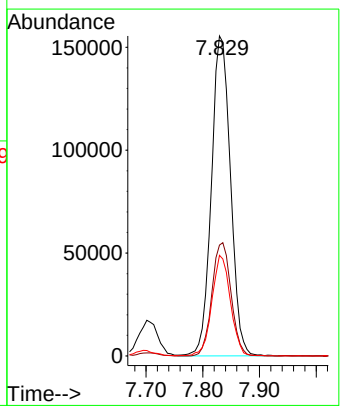


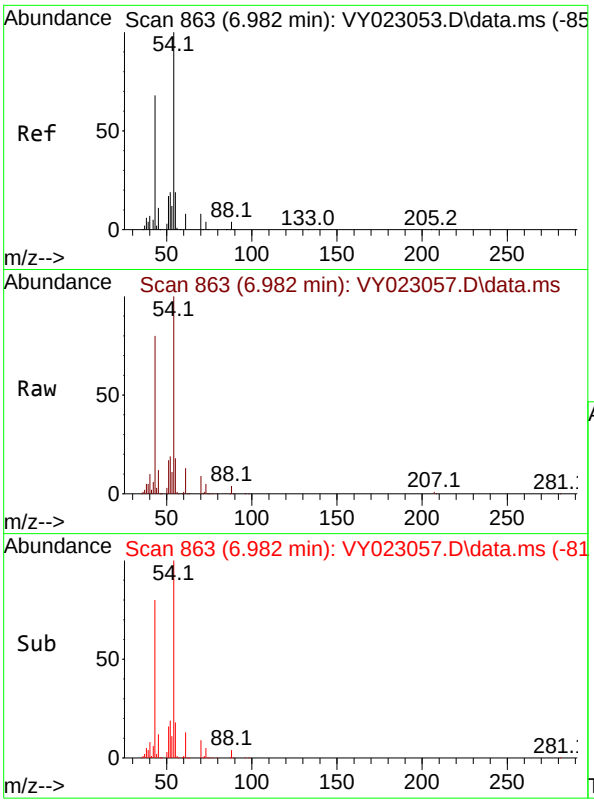


#36
1,1-Dichloropropene
Concen: 48.193 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 364210

Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.4
77	30.6	24.6	37.0



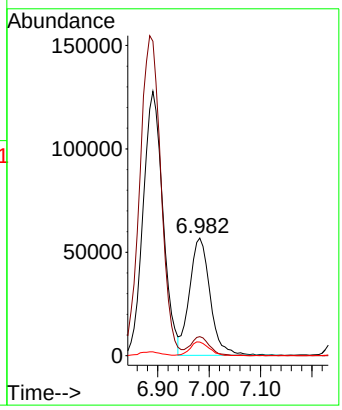


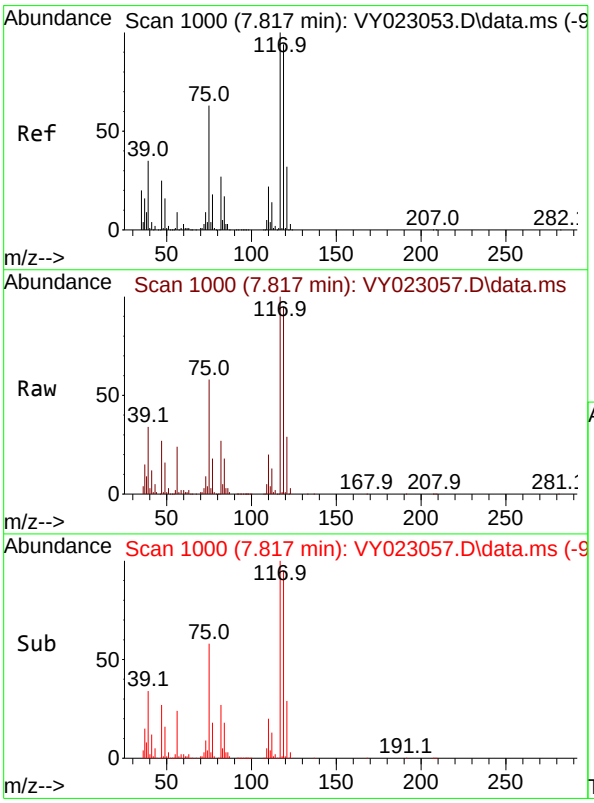
#37
Ethyl Acetate
Concen: 49.621 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 157530

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.9	17.9
70	10.7	8.8	13.2

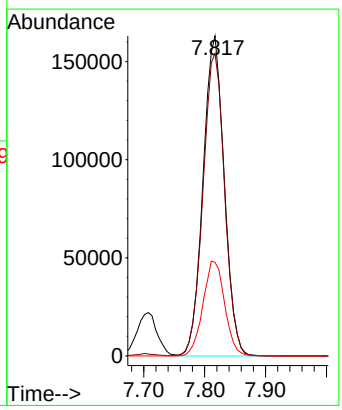


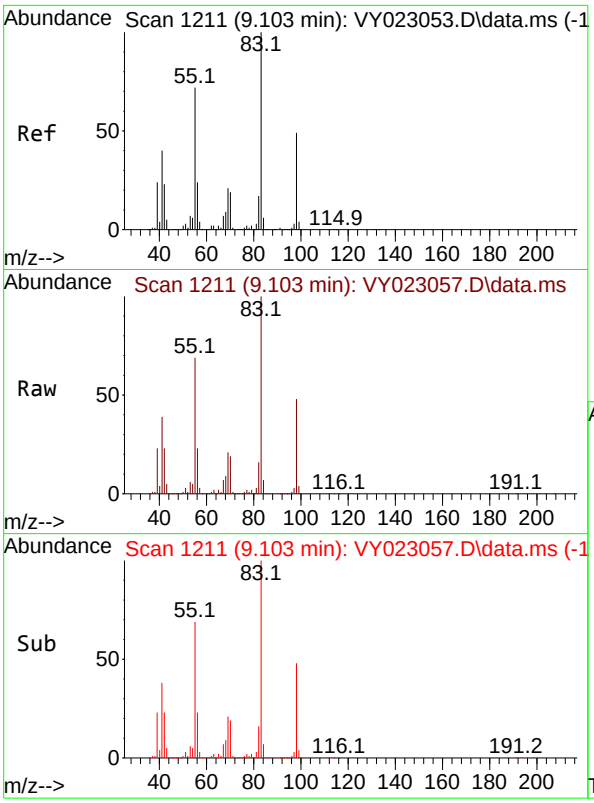


#38
Carbon Tetrachloride
Concen: 48.030 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 394245

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	29.2	25.8	38.8



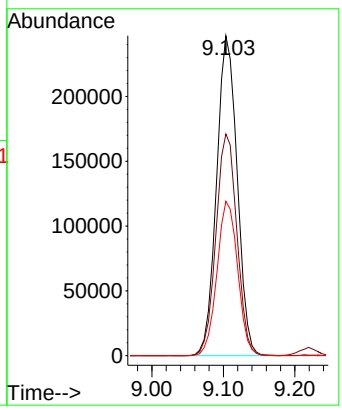


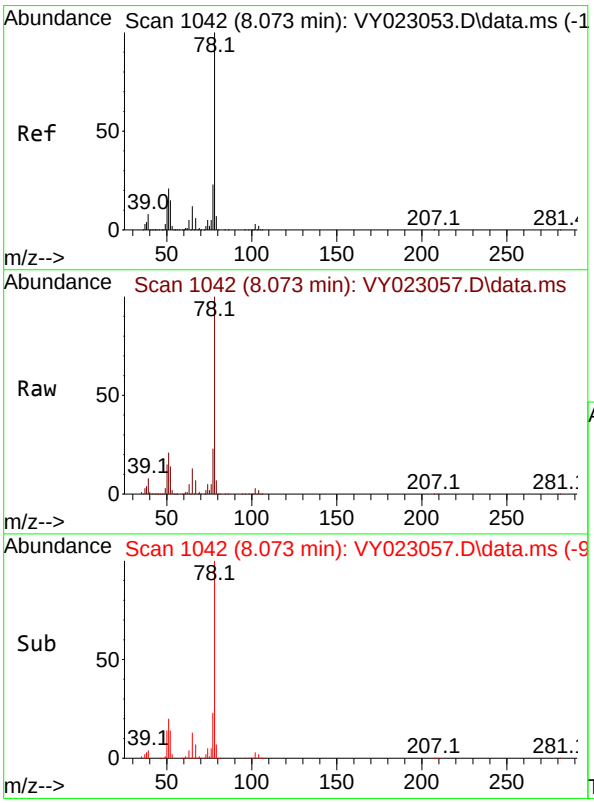
#39
Methylcyclohexane
Concen: 49.625 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 83 Resp: 493867

Ion	Ratio	Lower	Upper
83	100		
55	69.3	57.6	86.4
98	48.2	39.2	58.8

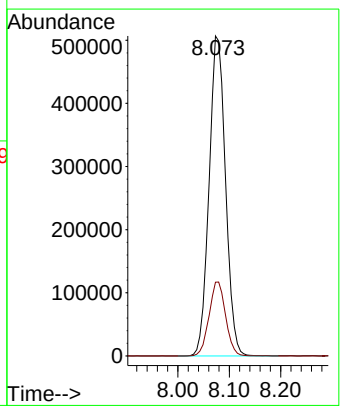


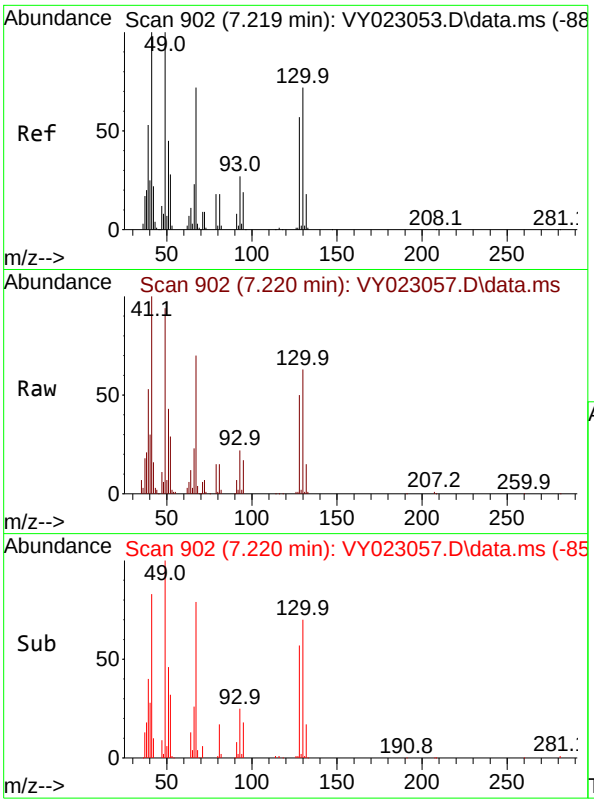


#40
Benzene
Concen: 48.428 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 78 Resp: 1128023

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0



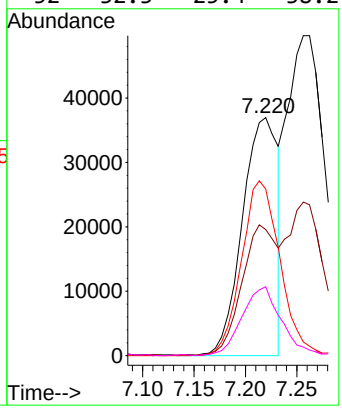


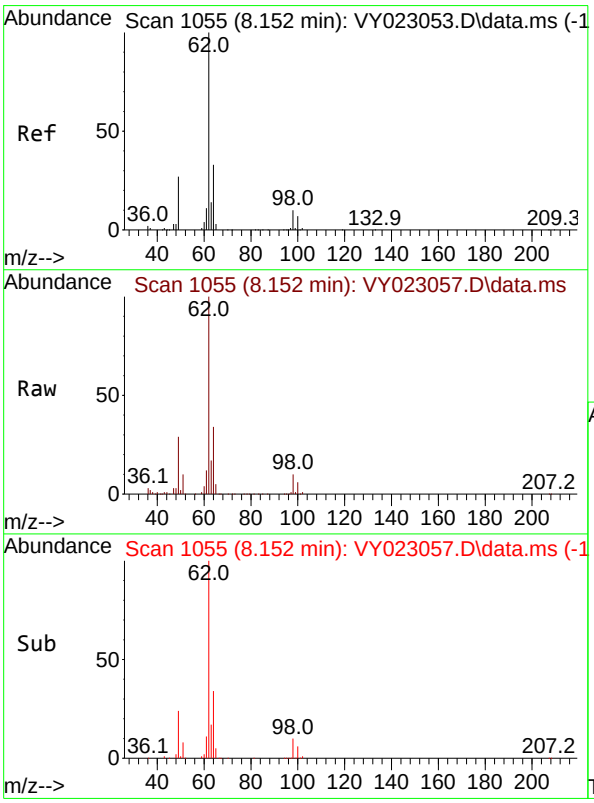
#41
Methacrylonitrile
Concen: 48.269 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 41 Resp: 88437

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.4	65.2
67	80.6	63.6	95.4
52	32.3	25.4	38.2

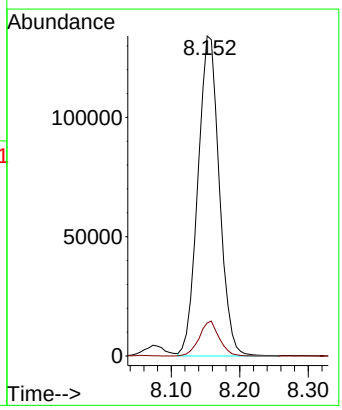


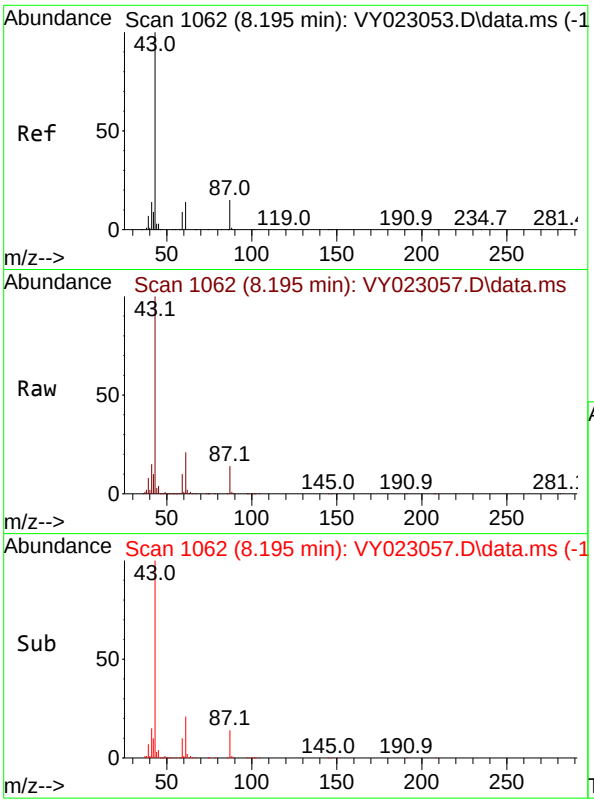


#42
1,2-Dichloroethane
Concen: 48.162 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 291766

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



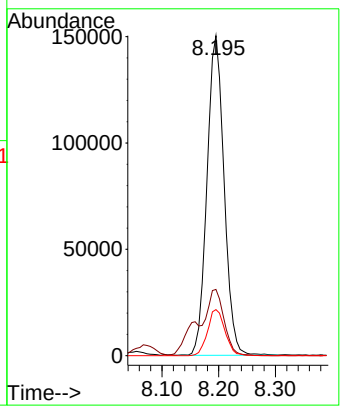


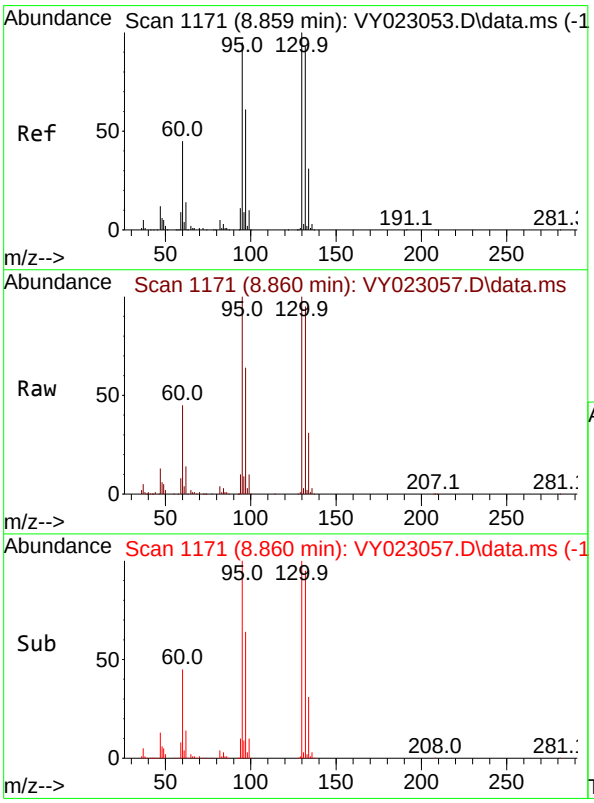
#43
Isopropyl Acetate
Concen: 49.094 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 315013

Ion	Ratio	Lower	Upper
43	100		
61	22.0	16.4	24.6
87	14.7	11.8	17.6

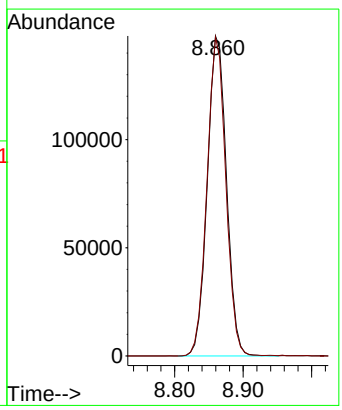


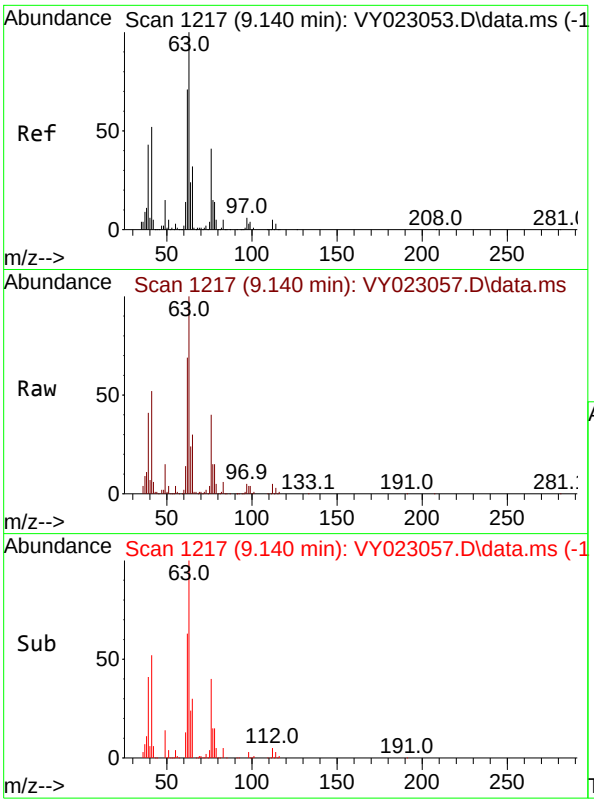


#44
Trichloroethene
Concen: 47.803 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:130 Resp: 287745

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	190.2



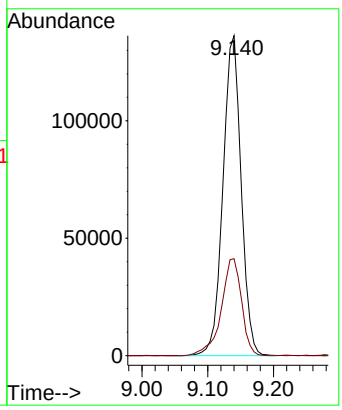


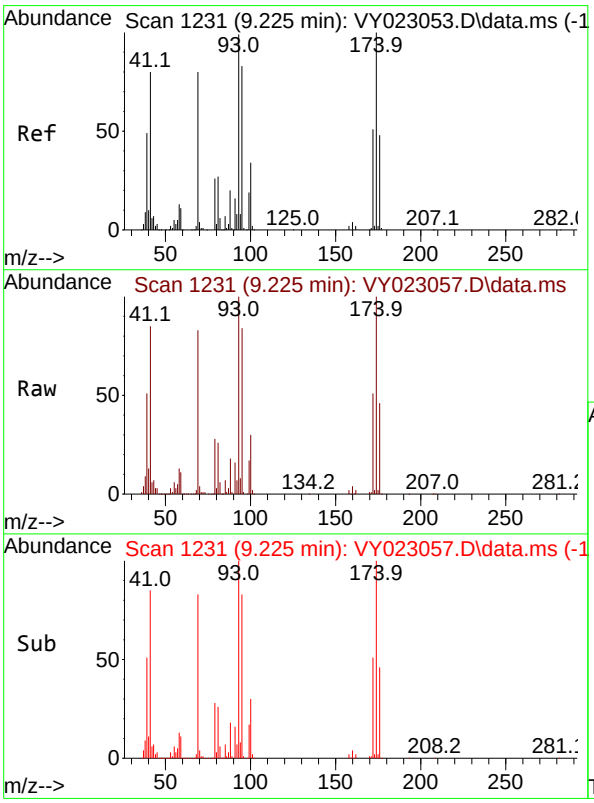
#45
1,2-Dichloropropane
Concen: 48.961 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 63 Resp: 262408

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.3	37.9

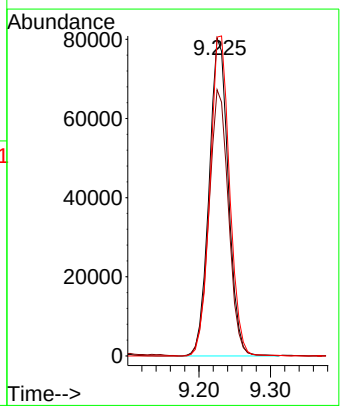


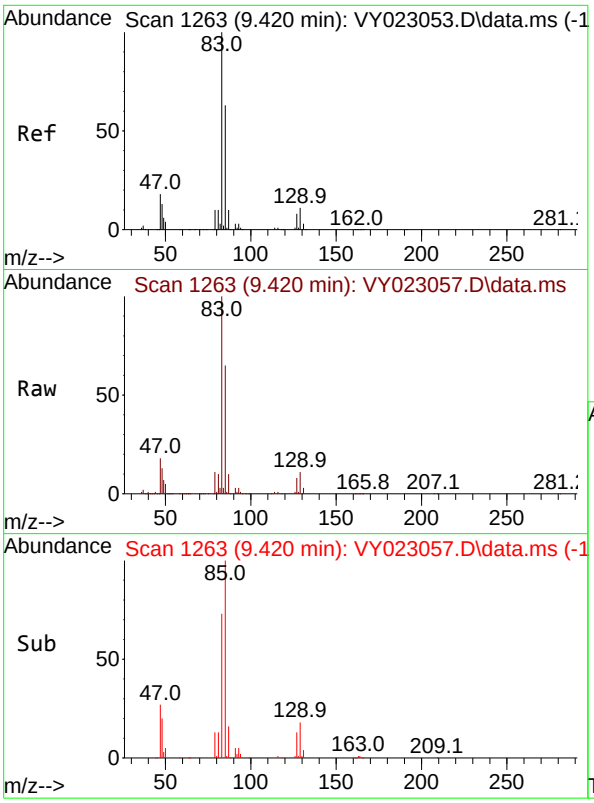


#46
Dibromomethane
Concen: 48.679 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 93 Resp: 149745

Ion	Ratio	Lower	Upper
93	100		
95	84.9	66.5	99.7
174	102.5	81.8	122.8



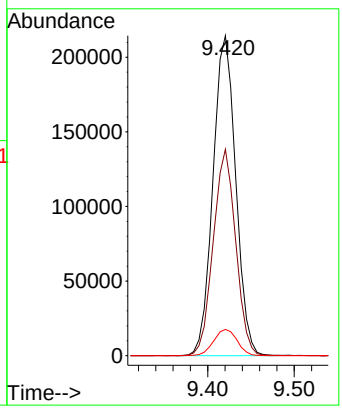


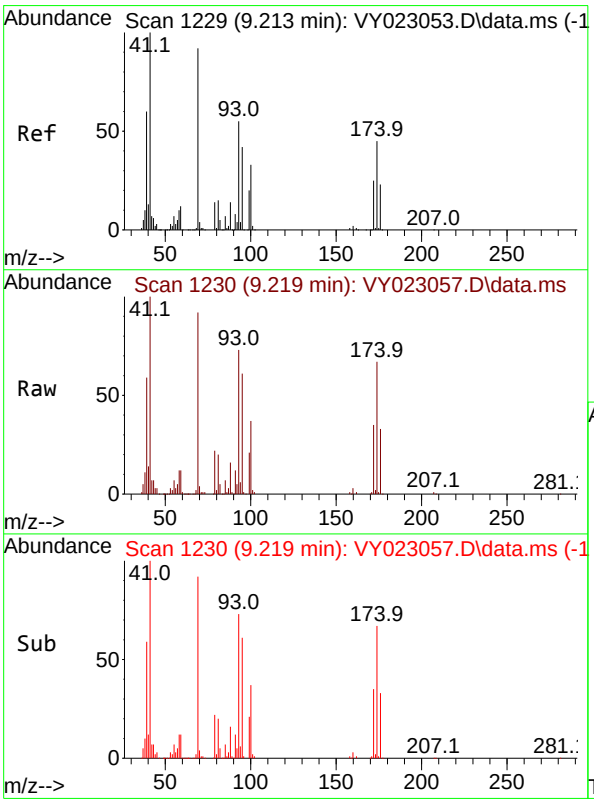
#47
Bromodichloromethane
Concen: 49.463 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 83 Resp: 391522

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.2	75.4
127	8.2	6.6	10.0

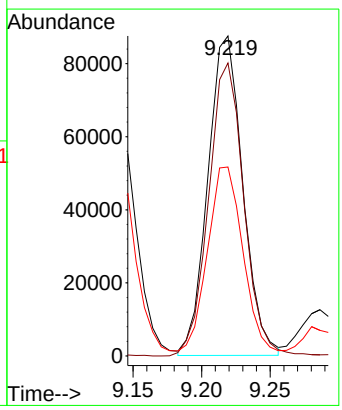


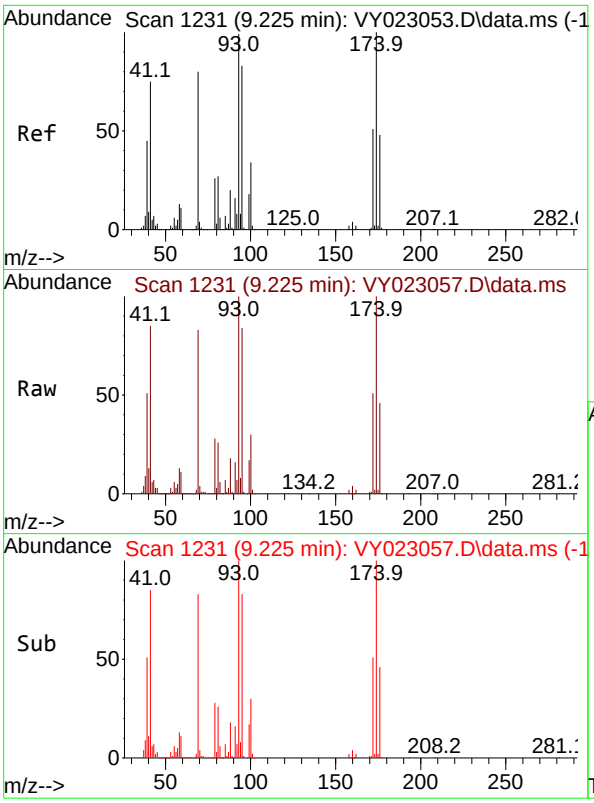


#48
Methyl methacrylate
Concen: 50.520 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 155118

Ion	Ratio	Lower	Upper
41	100		
69	92.7	73.2	109.8
39	57.8	47.0	70.4



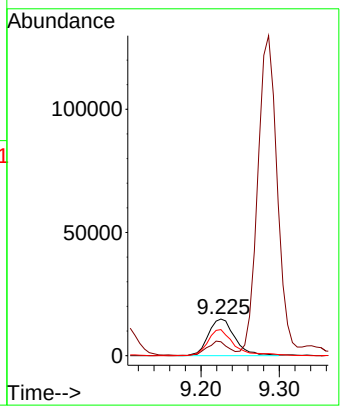


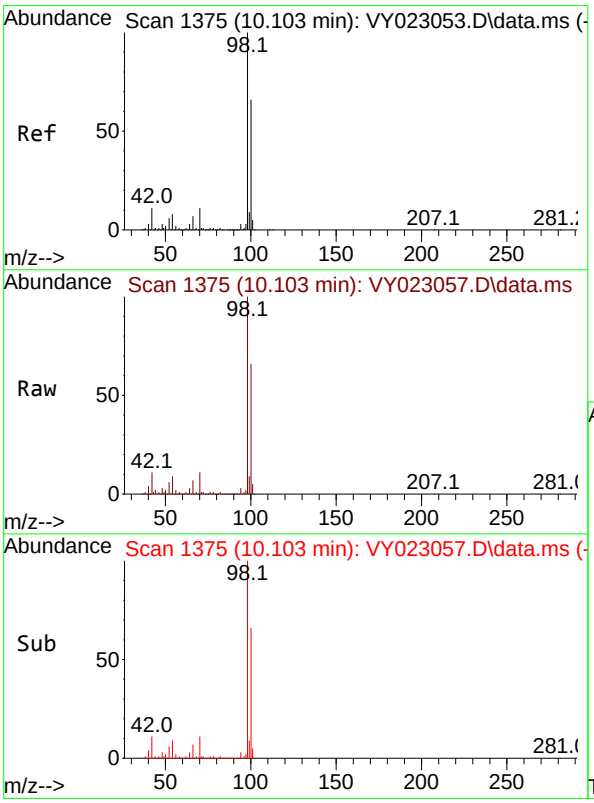
#49
1,4-Dioxane
Concen: 971.749 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 88 Resp: 35050

Ion	Ratio	Lower	Upper
88	100		
43	30.2	24.3	36.5
58	70.9	55.4	83.0

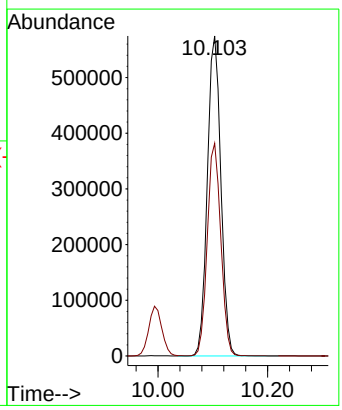


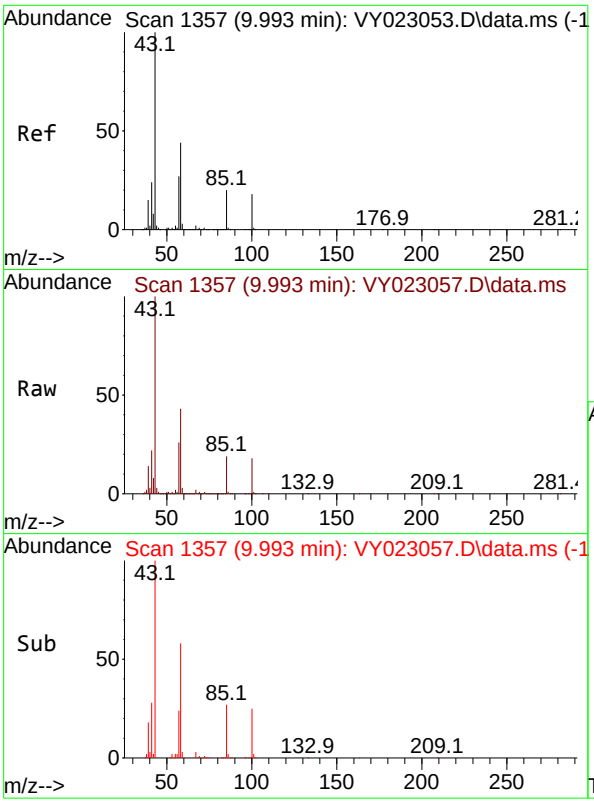


#50
Toluene-d8
Concen: 49.306 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 98 Resp: 979510

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.3	78.5



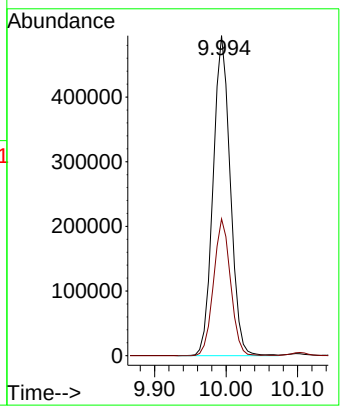


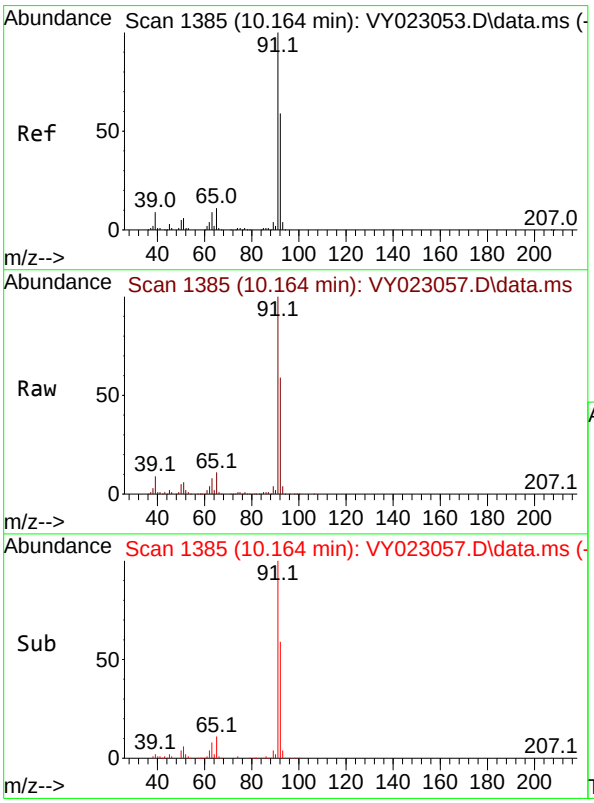
#51
4-Methyl-2-Pentanone
Concen: 248.943 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 823949

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3

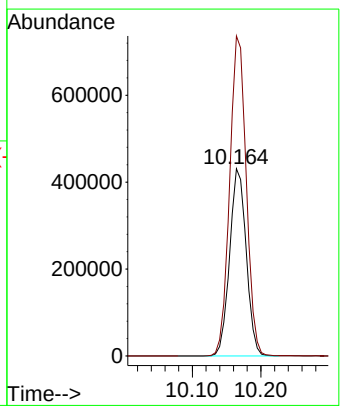


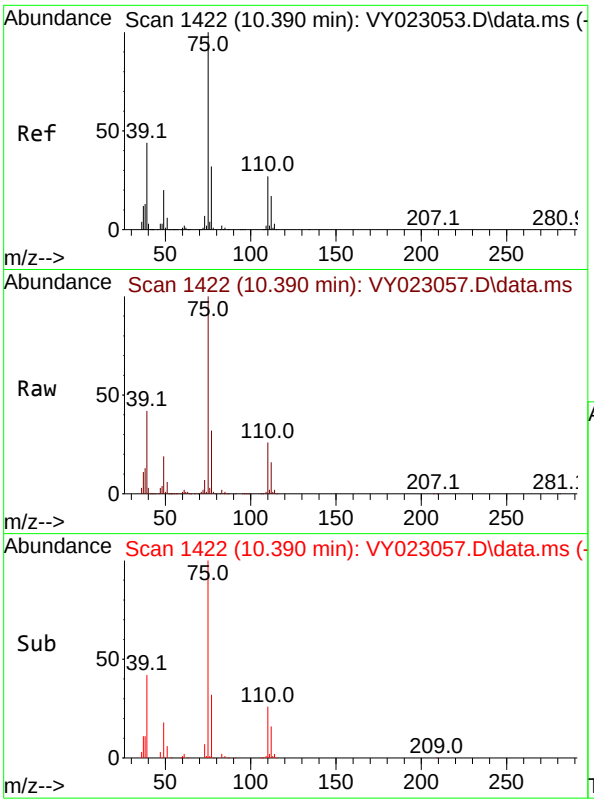


#52
Toluene
Concen: 48.963 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 92 Resp: 724356

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.4	204.6



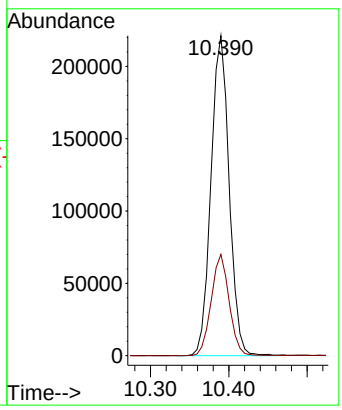


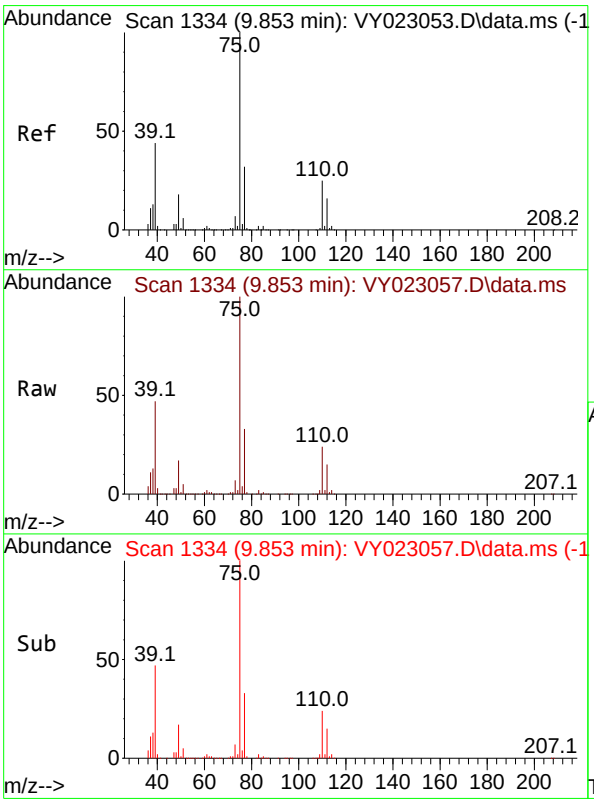
#53
t-1,3-Dichloropropene
Concen: 49.699 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 75 Resp: 356228

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5

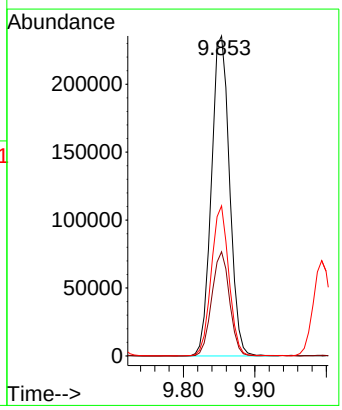


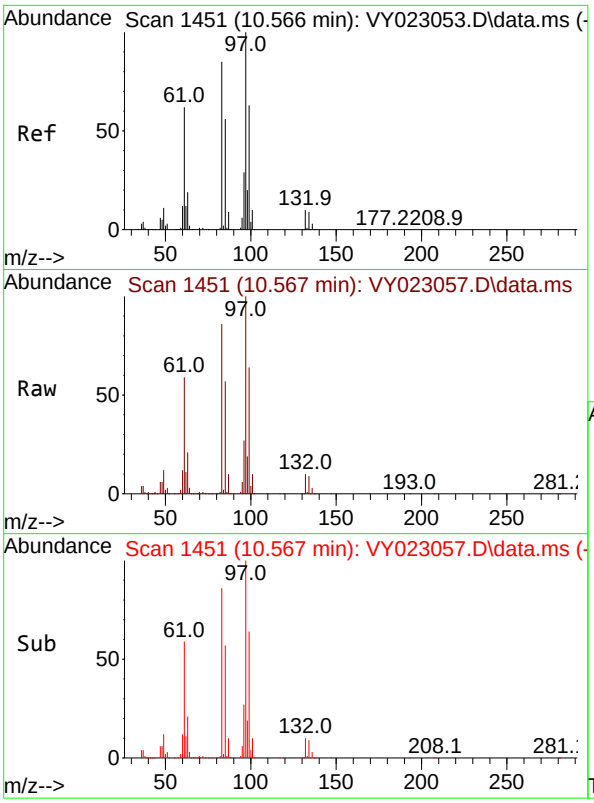


#54
cis-1,3-Dichloropropene
Concen: 48.965 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 415017

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.0
39	46.8	35.6	53.4



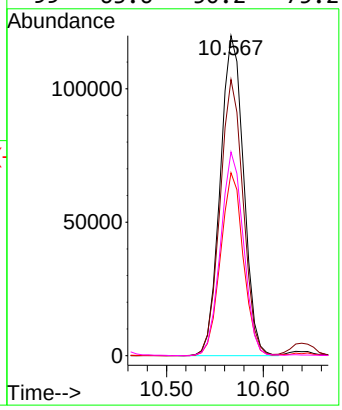


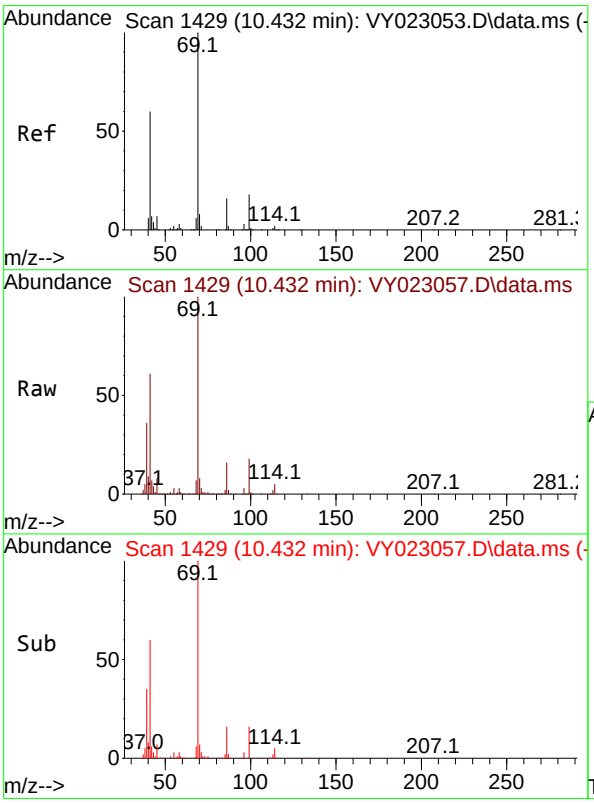
#55
1,1,2-Trichloroethane
Concen: 48.867 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 97 Resp: 201146

Ion	Ratio	Lower	Upper
97	100		
83	86.2	67.7	101.5
85	57.1	44.5	66.7
99	63.6	50.2	75.2

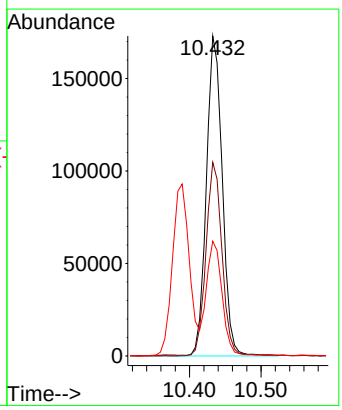


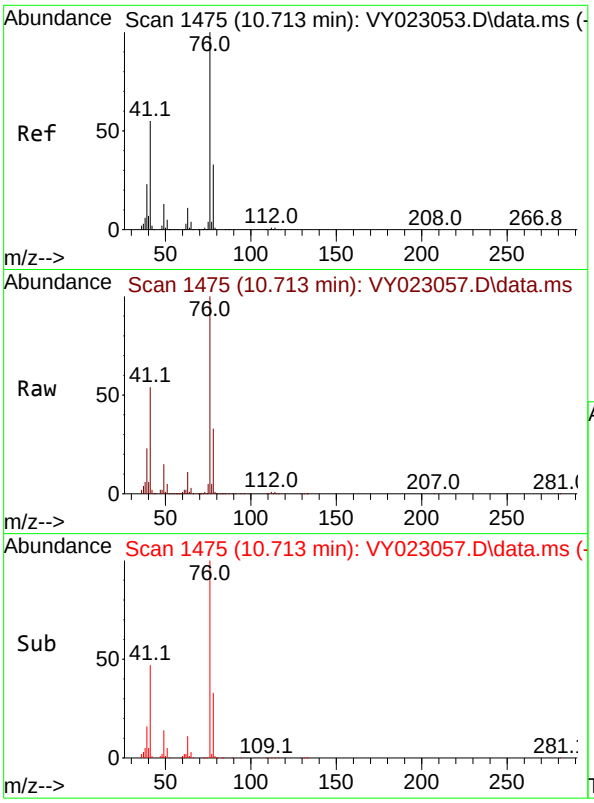


#56
Ethyl methacrylate
Concen: 50.779 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 69 Resp: 267458

Ion	Ratio	Lower	Upper
69	100		
41	60.8	48.6	72.8
39	35.0	27.0	40.4



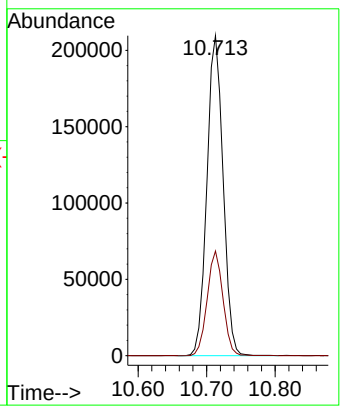


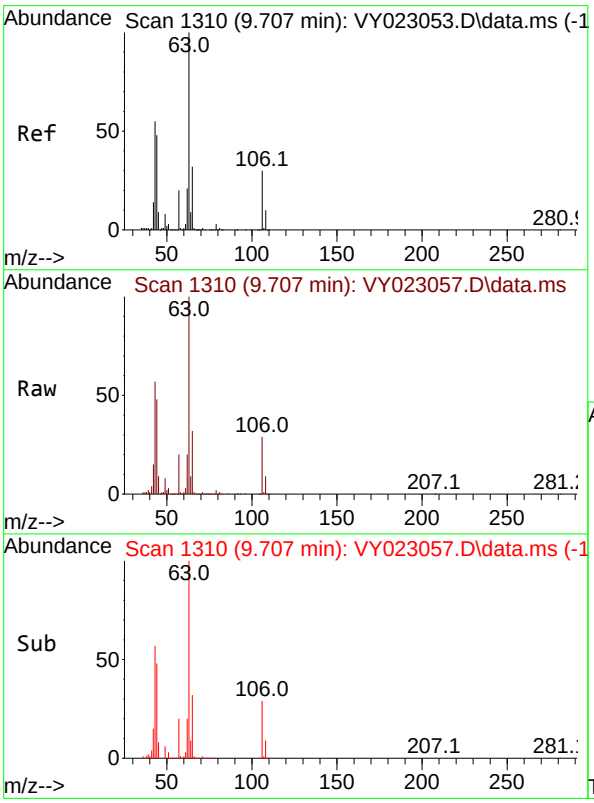
#57
1,3-Dichloropropane
Concen: 49.228 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 76 Resp: 343649

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0

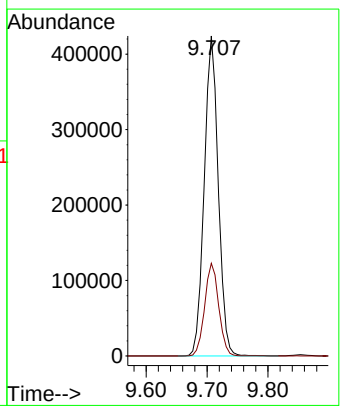


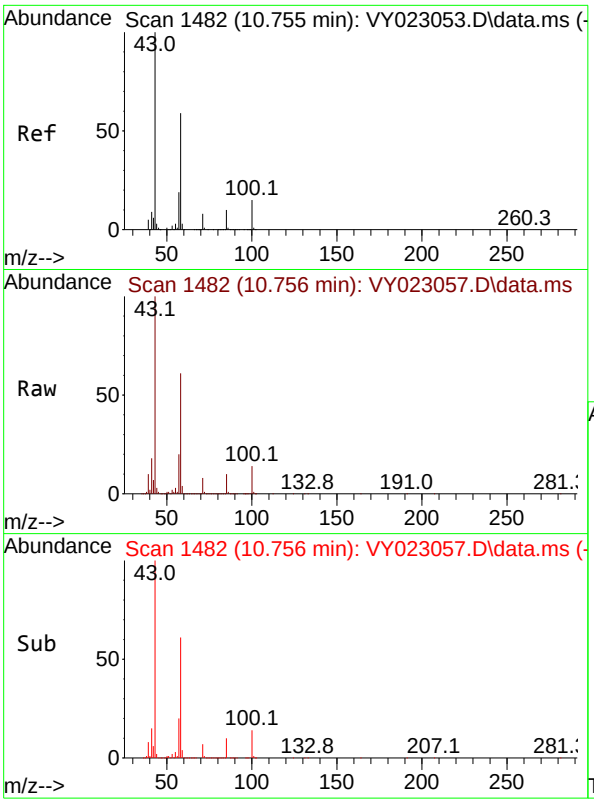


#58
2-Chloroethyl Vinyl ether
Concen: 273.240 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 678865

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.2	34.8



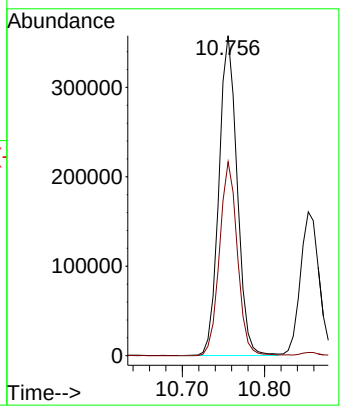


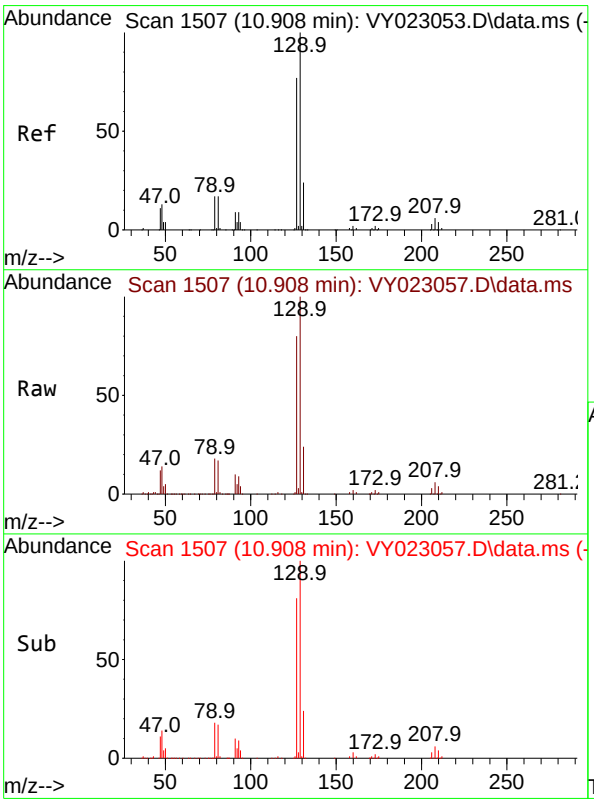
#59
2-Hexanone
Concen: 244.812 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 551743

Ion	Ratio	Lower	Upper
43	100		
58	59.5	29.5	88.5

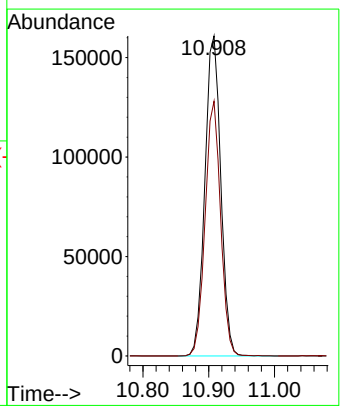


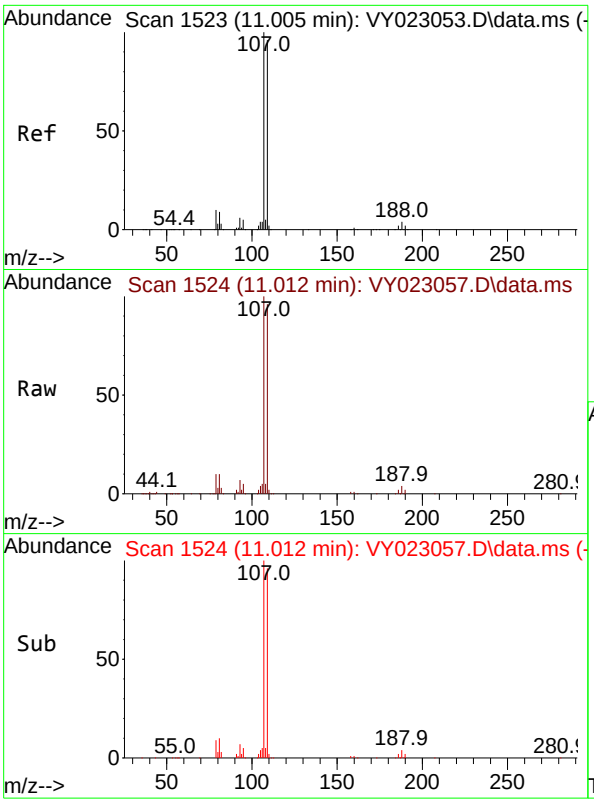


#60
Dibromochloromethane
Concen: 49.810 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:129 Resp: 270536

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5



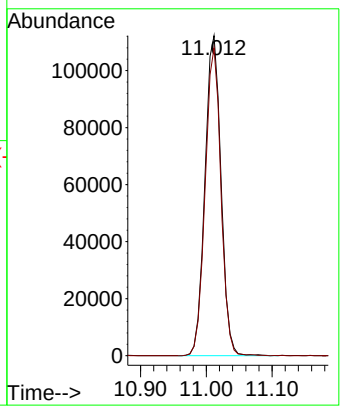


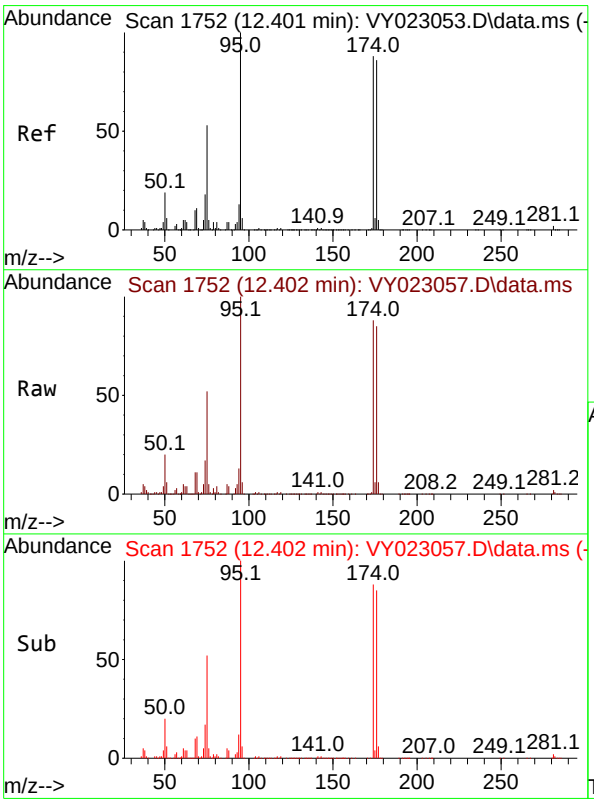
#61
1,2-Dibromoethane
Concen: 49.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:107 Resp: 190334

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

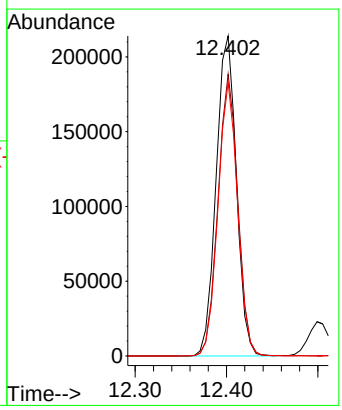


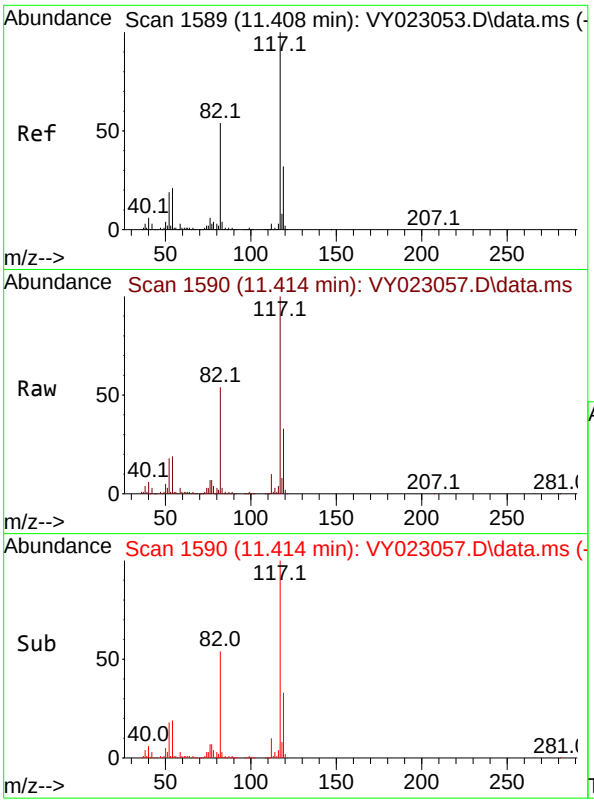


#62
4-Bromofluorobenzene
Concen: 51.500 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 95 Resp: 329022

Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	171.6
176	82.9	0.0	167.6



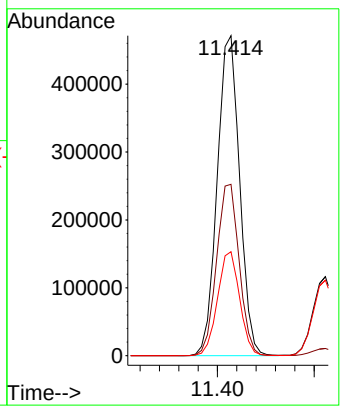


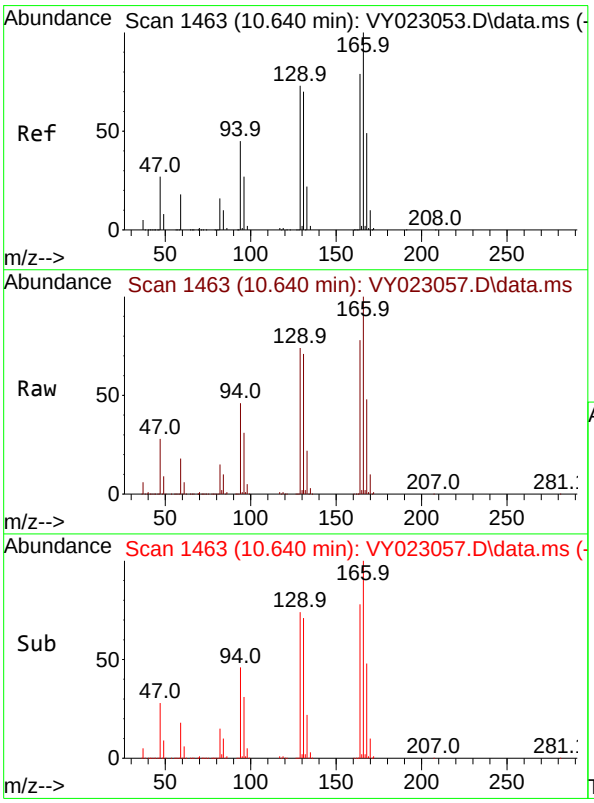
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:117 Resp: 756555

Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.0
119	32.5	25.6	38.4

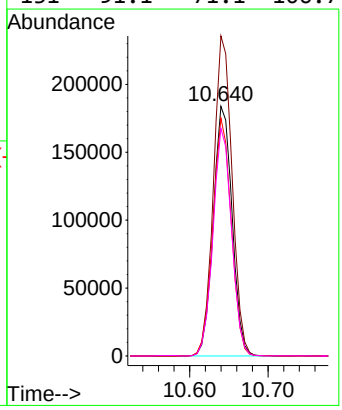


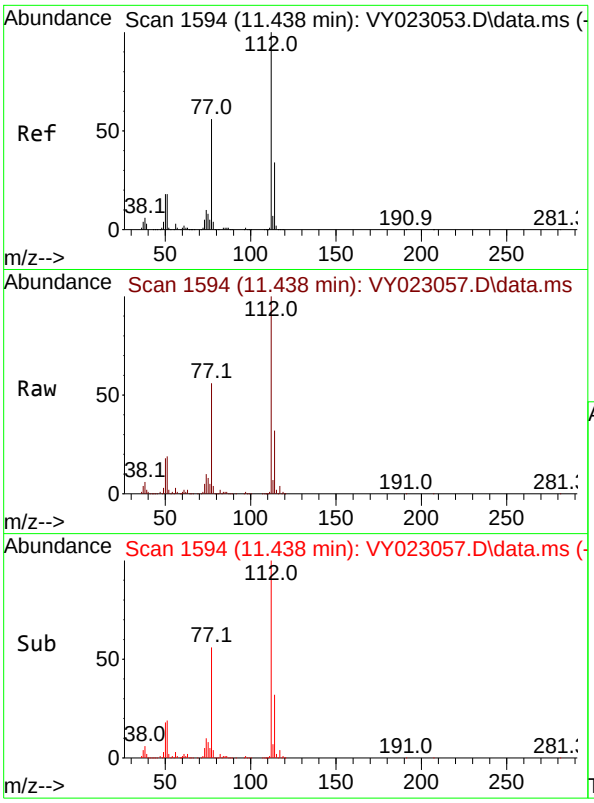


#64
Tetrachloroethene
Concen: 45.512 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:164 Resp: 307456

Ion	Ratio	Lower	Upper
164	100		
166	128.2	101.1	151.7
129	95.3	74.0	111.0
131	91.1	71.1	106.7



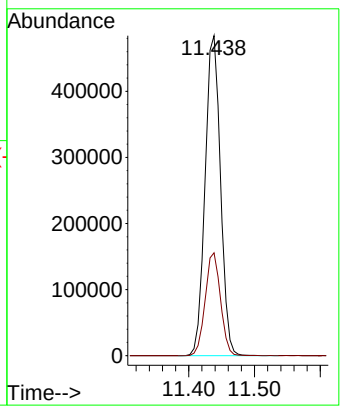


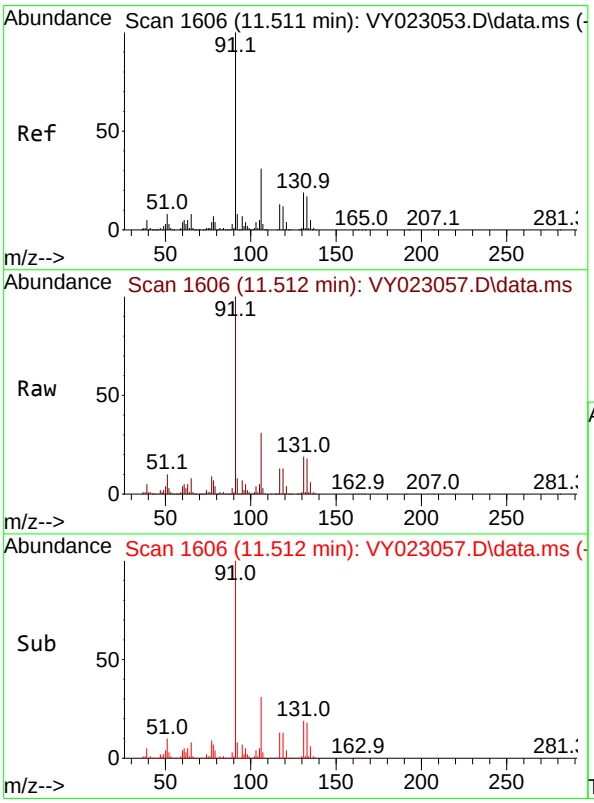
#65
Chlorobenzene
Concen: 48.275 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:112 Resp: 787799

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

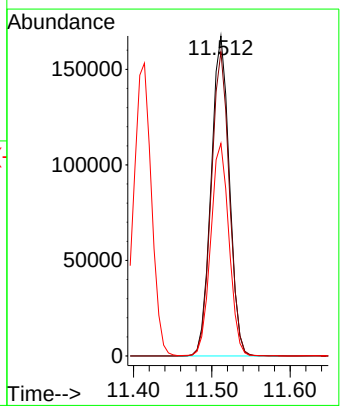


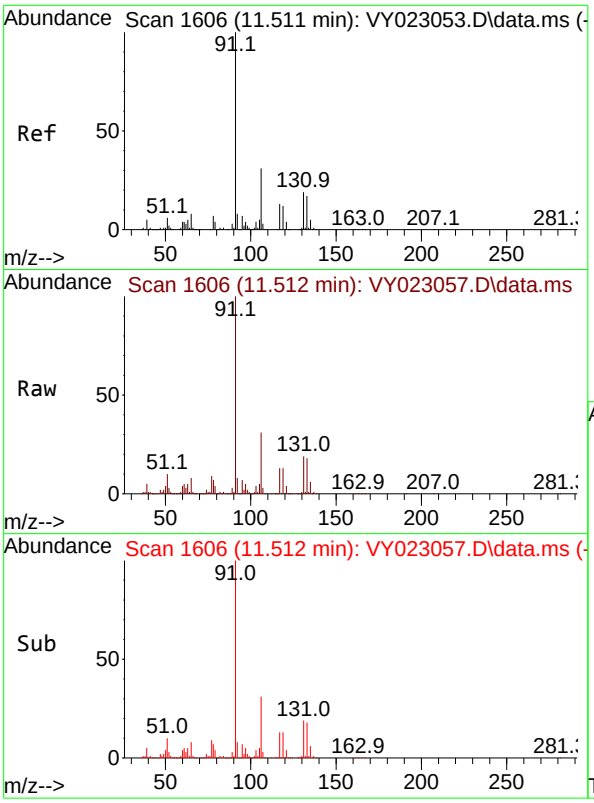


#66
1,1,1,2-Tetrachloroethane
Concen: 48.815 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:131 Resp: 270360

Ion	Ratio	Lower	Upper
131	100		
133	94.4	46.9	140.6
119	66.7	33.2	99.6



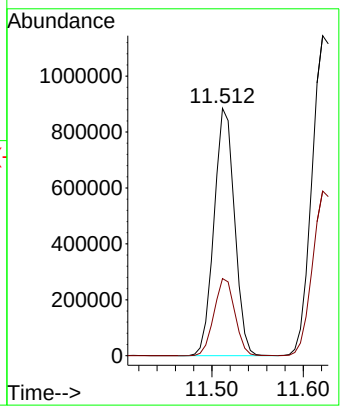


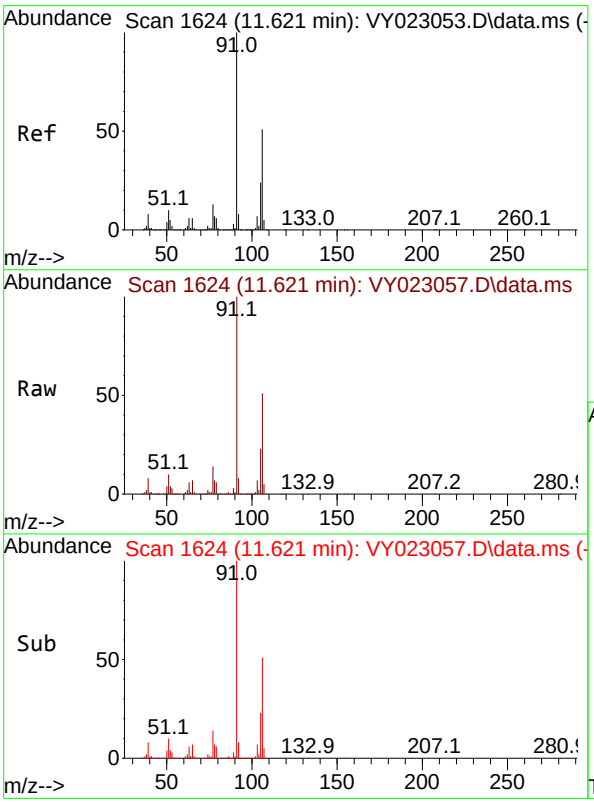
#67
Ethyl Benzene
Concen: 49.163 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 91 Resp: 1380648

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4

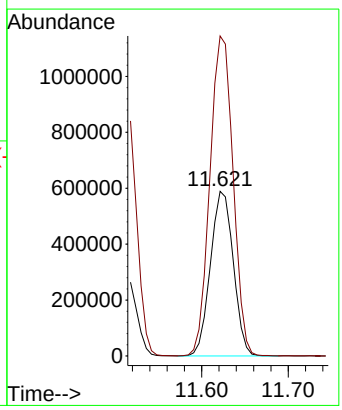


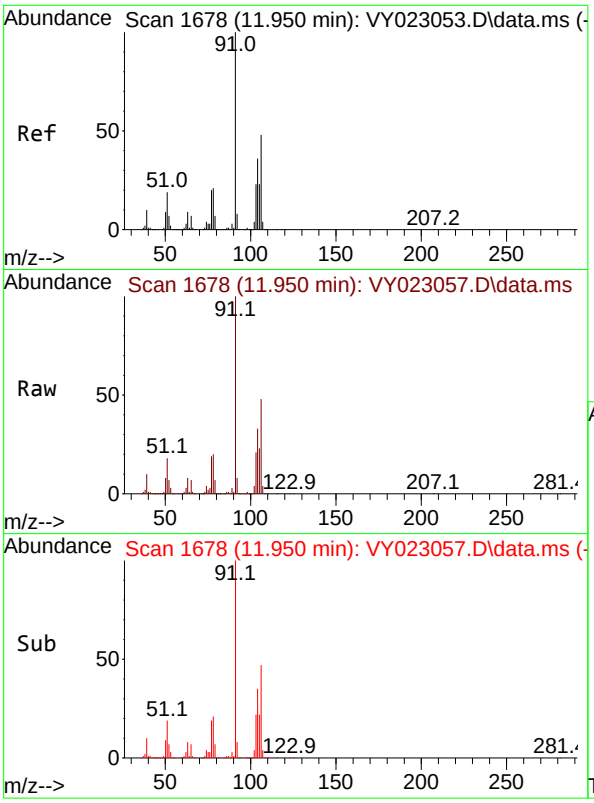


#68
m/p-Xylenes
Concen: 98.515 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 1080541

Ion	Ratio	Lower	Upper
106	100		
91	197.0	158.6	238.0



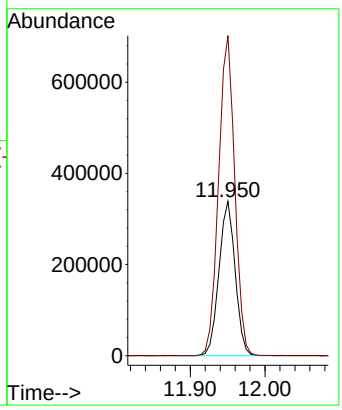


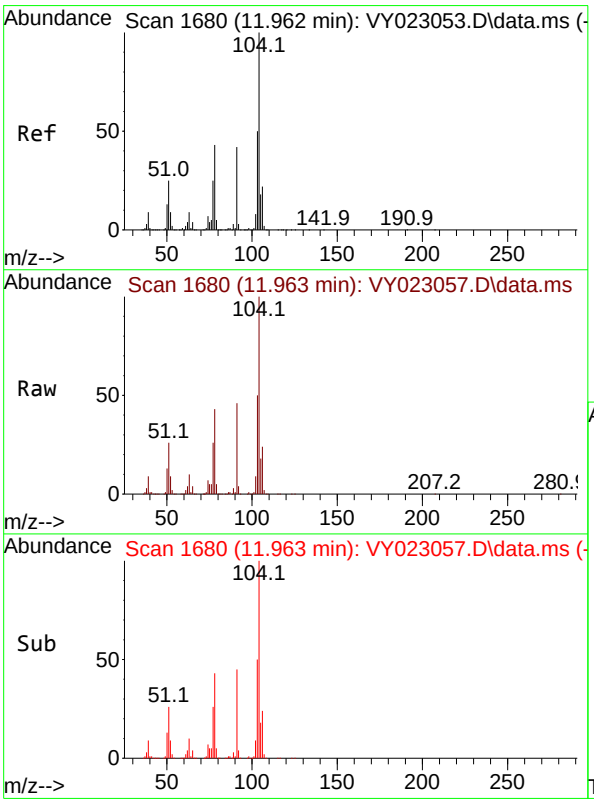
#69
o-Xylene
Concen: 49.645 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:106 Resp: 509991

Ion	Ratio	Lower	Upper
106	100		
91	207.4	103.2	309.4

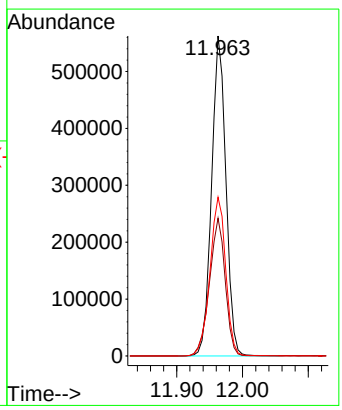


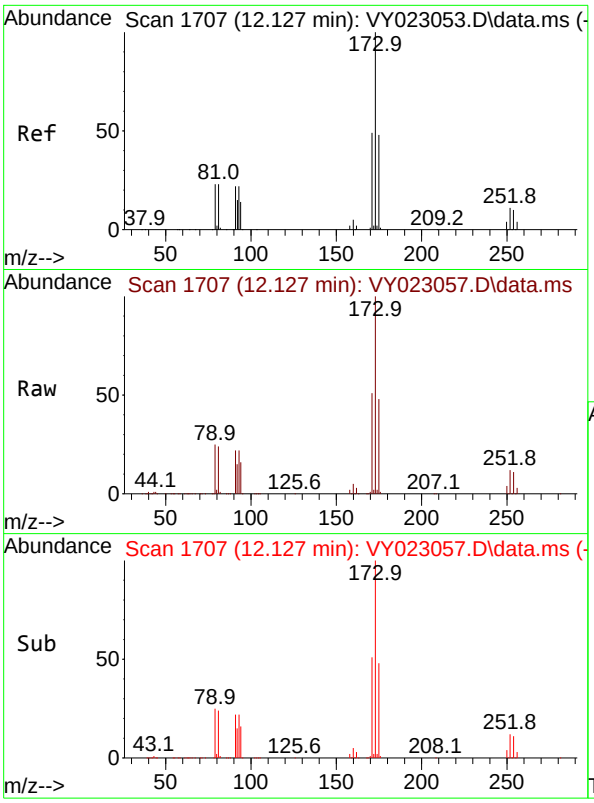


#70
Styrene
Concen: 50.733 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:104 Resp: 852310

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	54.6	43.7	65.5



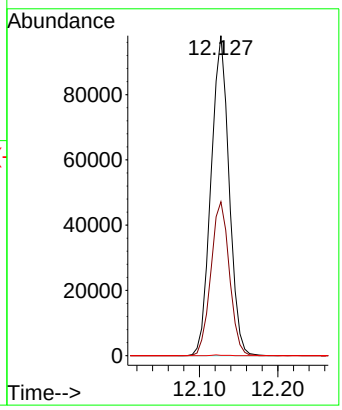


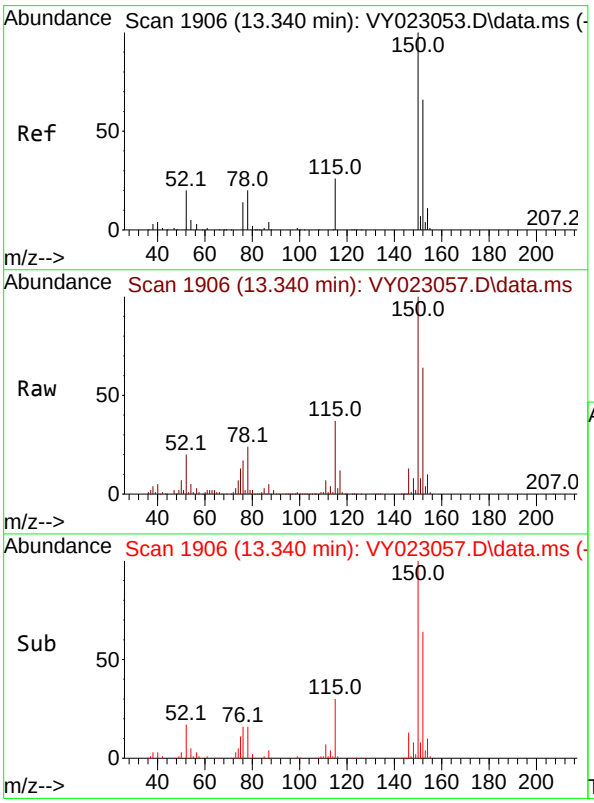
#71
Bromoform
Concen: 48.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:173 Resp: 157073

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.7
254	0.2	0.1	0.1#

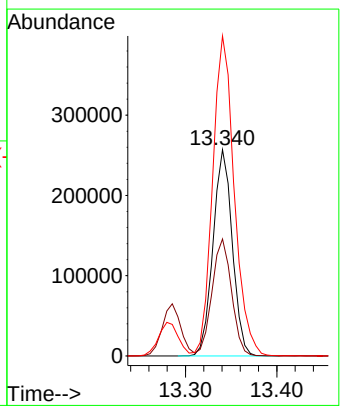


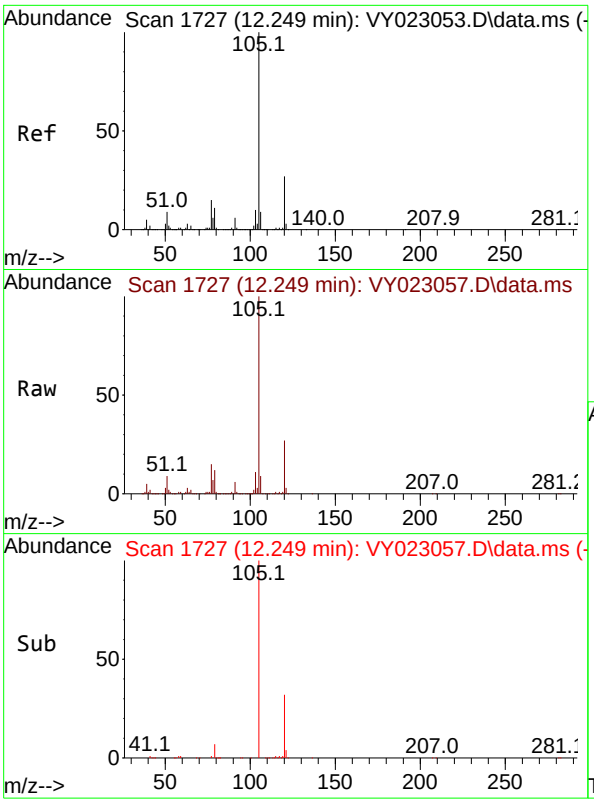


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:152 Resp: 376990

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.2	84.6
150	174.1	0.0	348.0



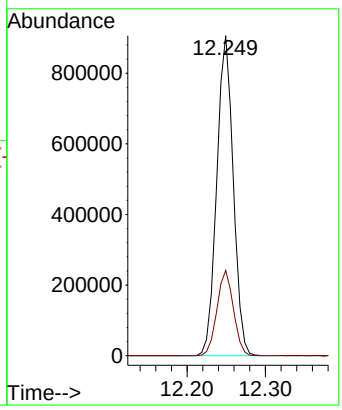


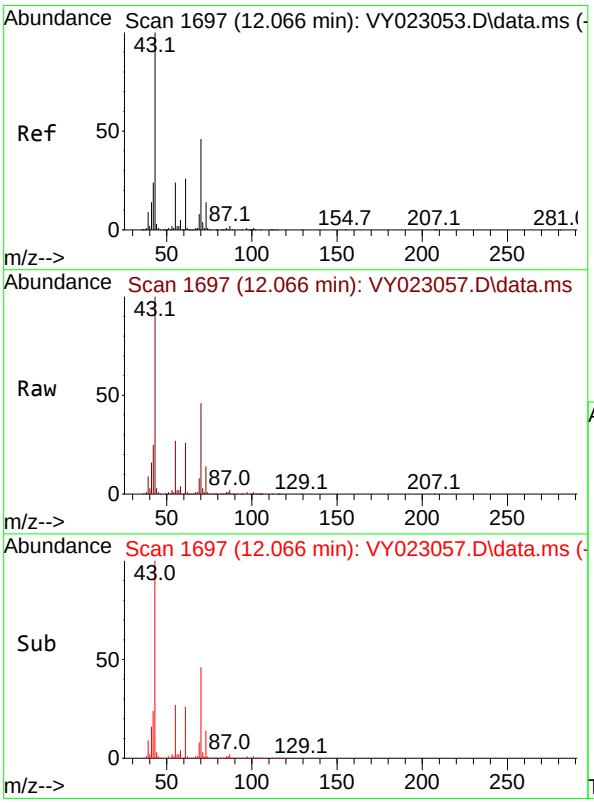
#73
Isopropylbenzene
Concen: 49.876 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:105 Resp: 1327070

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.2

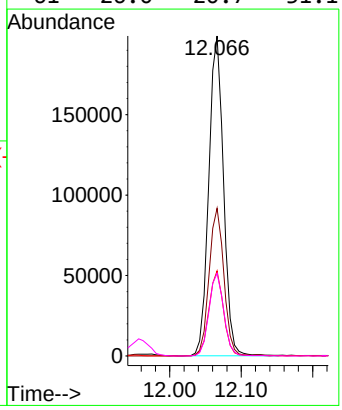


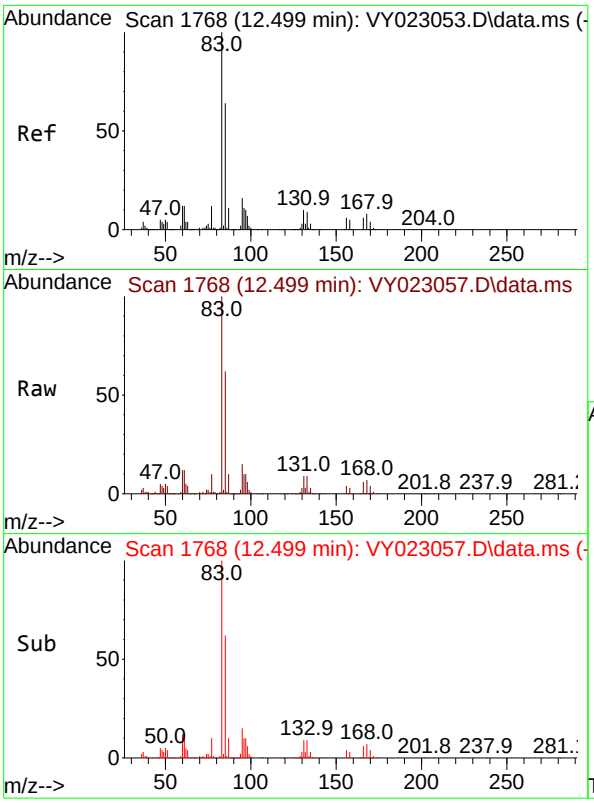


#74
N-amyl acetate
Concen: 50.529 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 285118

Ion	Ratio	Lower	Upper
43	100		
70	46.5	37.5	56.3
55	26.2	20.7	31.1
61	26.0	20.7	31.1



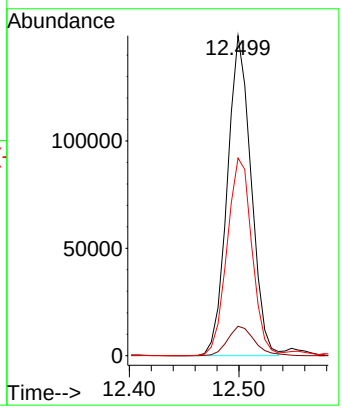


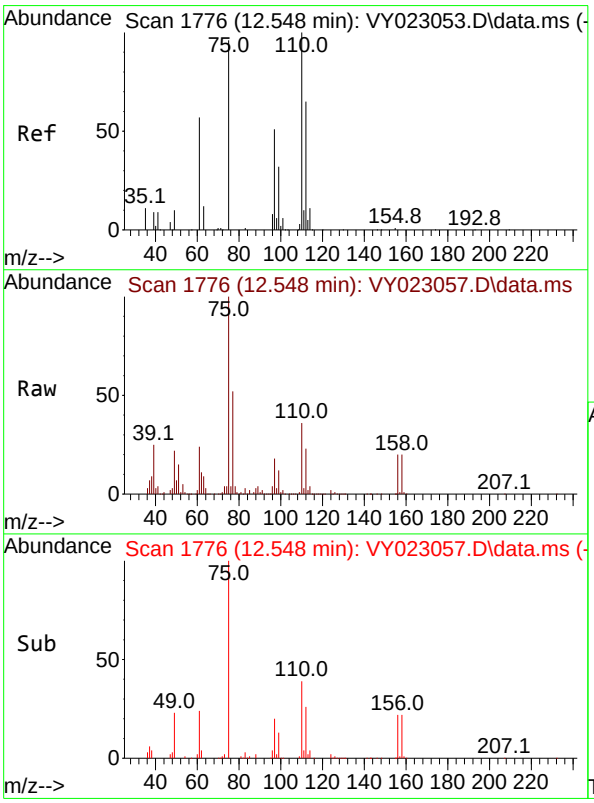
#75
1,1,2,2-Tetrachloroethane
Concen: 49.350 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 83 Resp: 224206

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	65.0	31.8	95.3

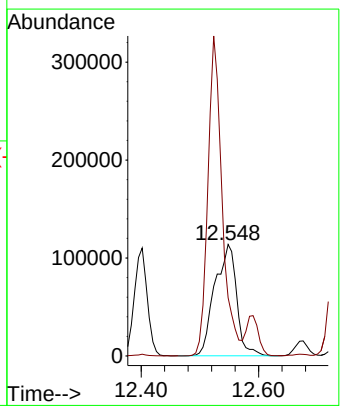


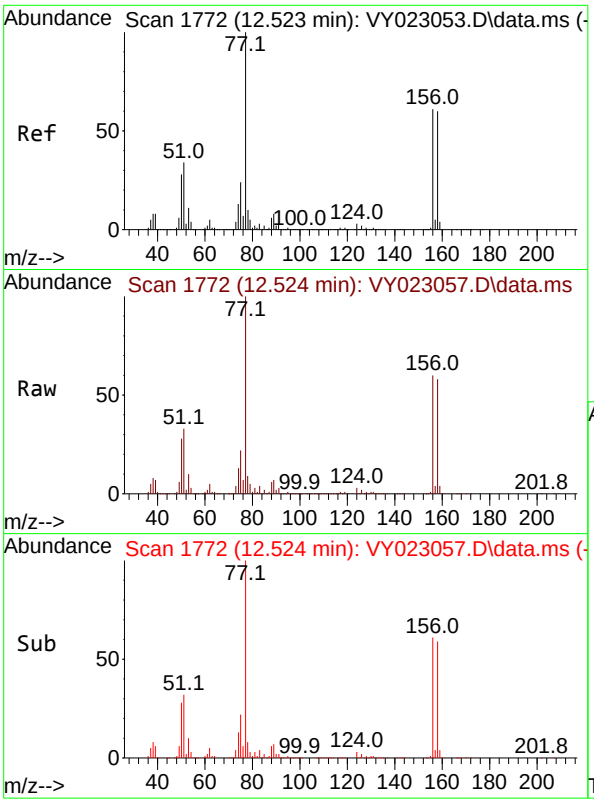


#76
1,2,3-Trichloropropane
Concen: 80.862 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 294203

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



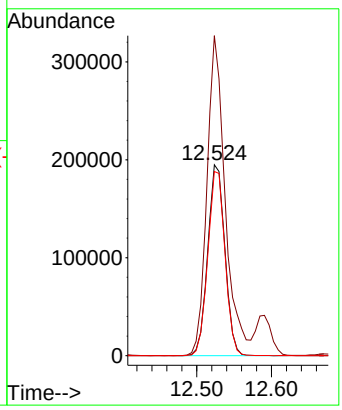


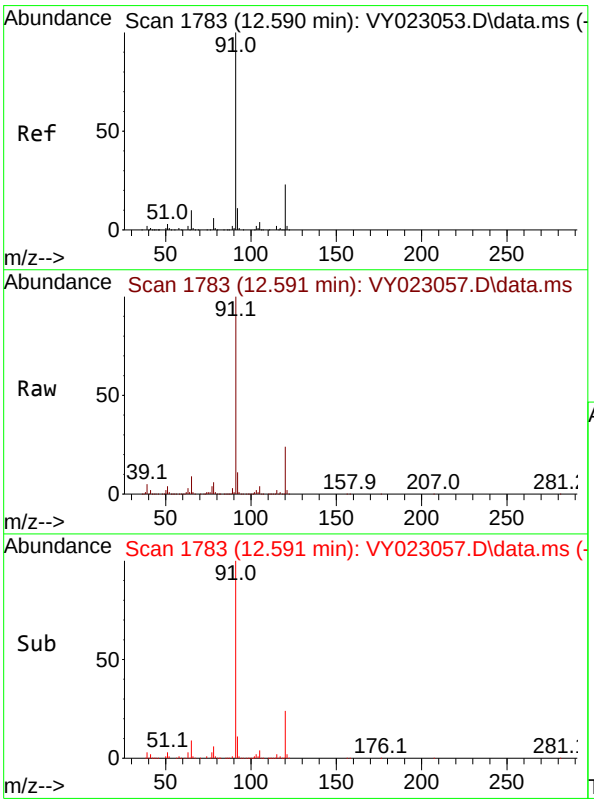
#77
Bromobenzene
Concen: 49.004 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:156 Resp: 311065

Ion	Ratio	Lower	Upper
156	100		
77	178.4	88.1	264.4
158	96.6	48.0	144.0

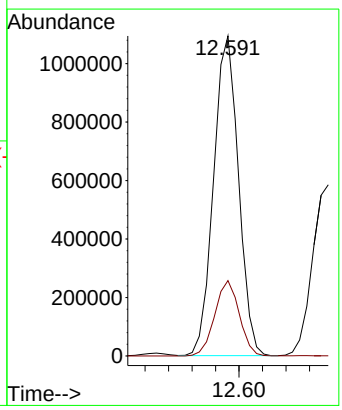


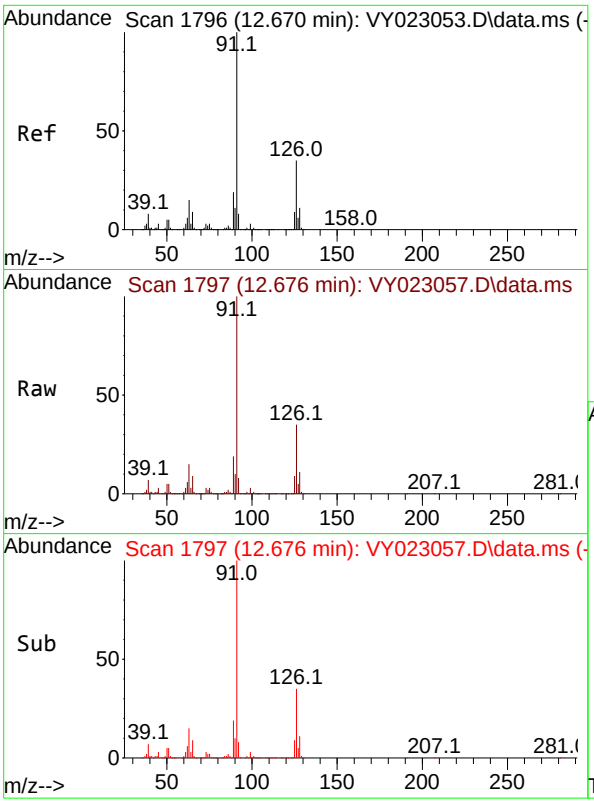


#78
n-propylbenzene
Concen: 50.853 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 1610911

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5



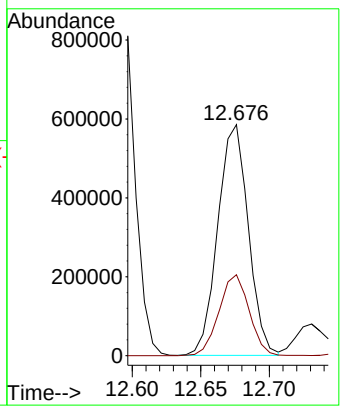


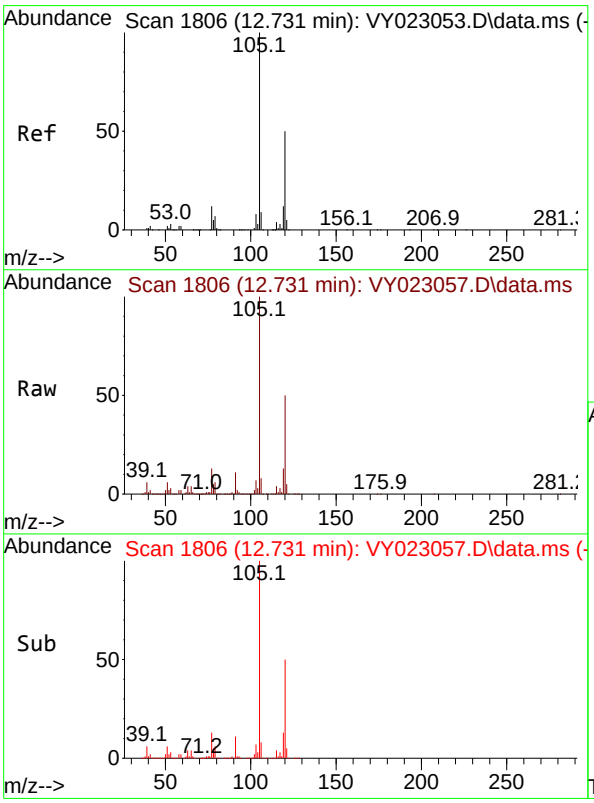
#79
2-Chlorotoluene
Concen: 49.898 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 91 Resp: 905657

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

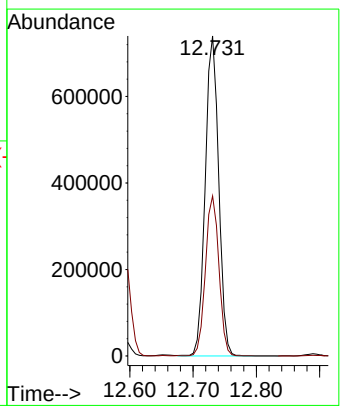


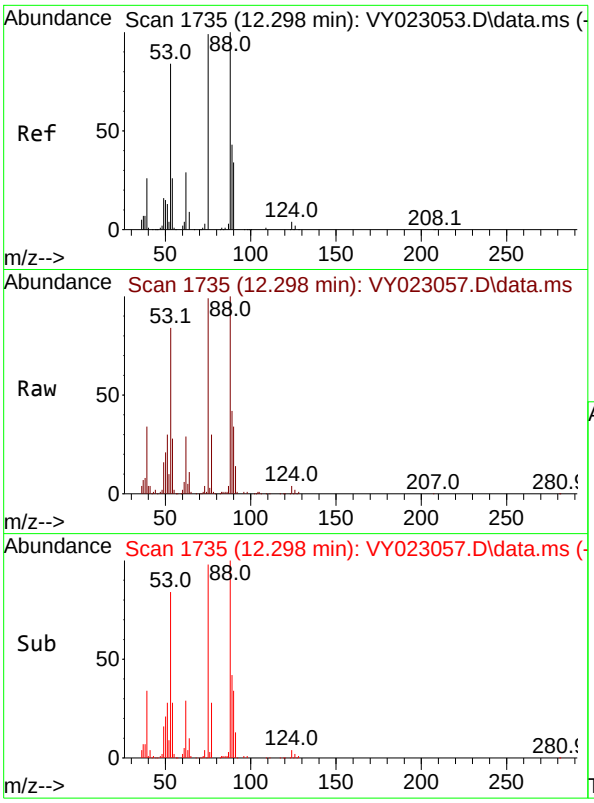


#80
1,3,5-Trimethylbenzene
Concen: 50.916 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1094902

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4



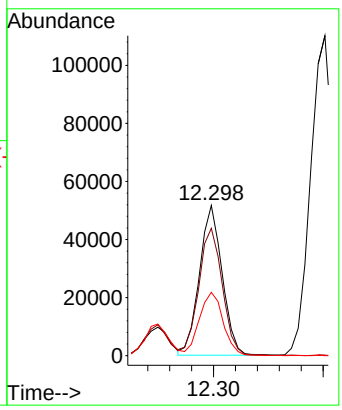


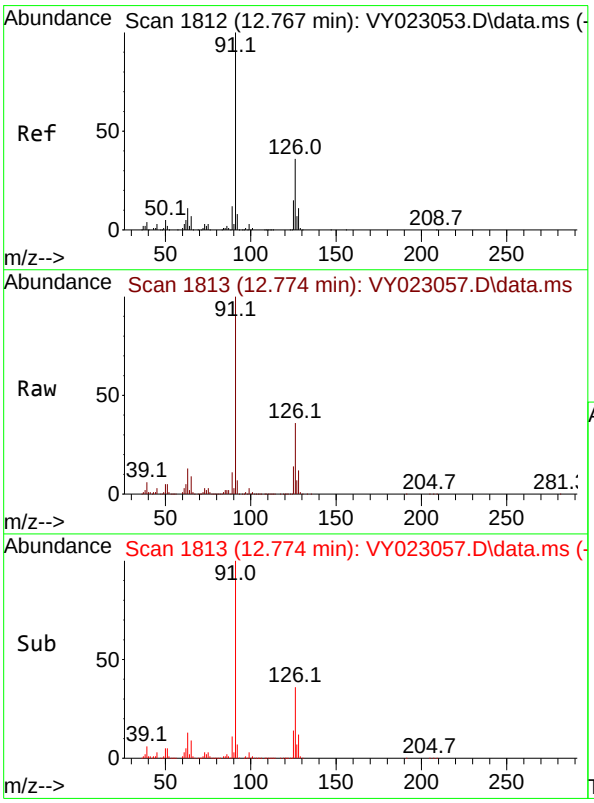
#81
trans-1,4-Dichloro-2-butene
Concen: 49.409 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 75 Resp: 74263

Ion	Ratio	Lower	Upper
75	100		
53	89.2	70.8	106.2
89	44.3	38.1	57.1

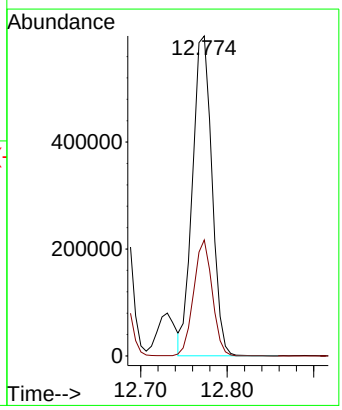


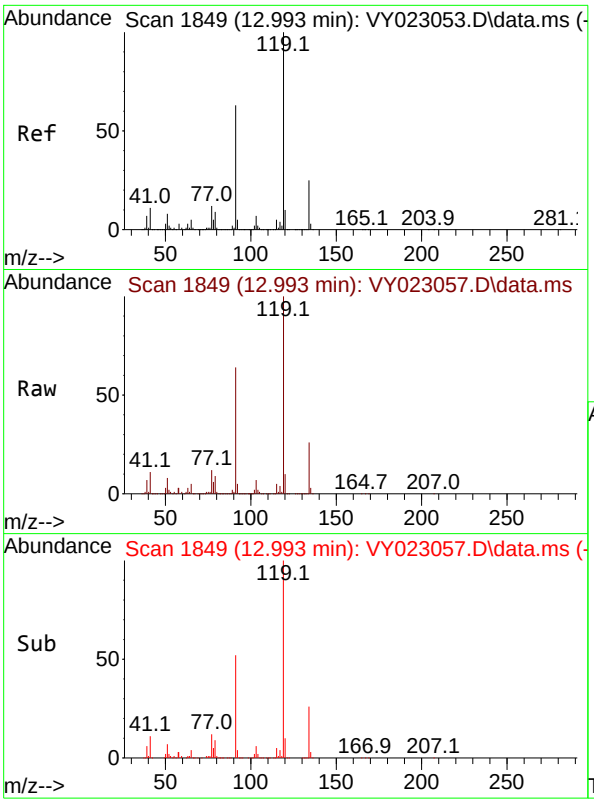


#82
4-Chlorotoluene
Concen: 49.505 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 932114

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0



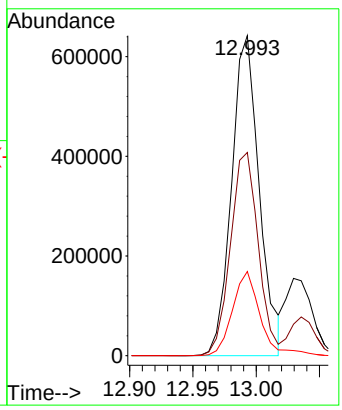


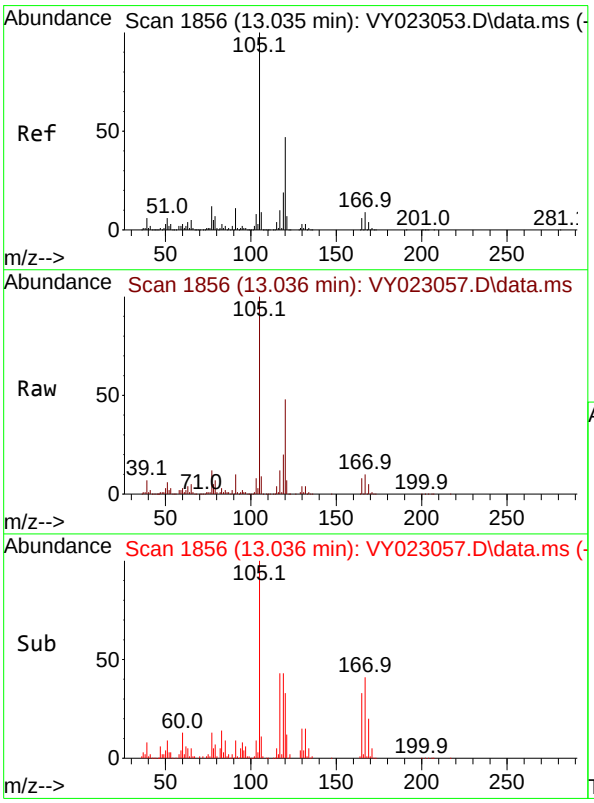
#83
tert-Butylbenzene
Concen: 50.443 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:119 Resp: 979692

Ion	Ratio	Lower	Upper
119	100		
91	63.7	31.6	94.8
134	26.4	12.9	38.7

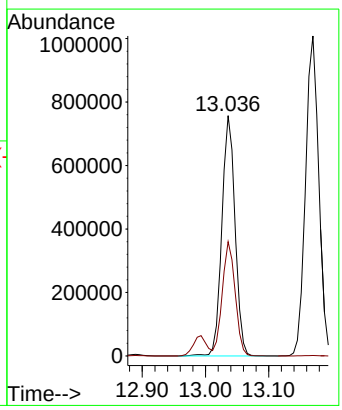


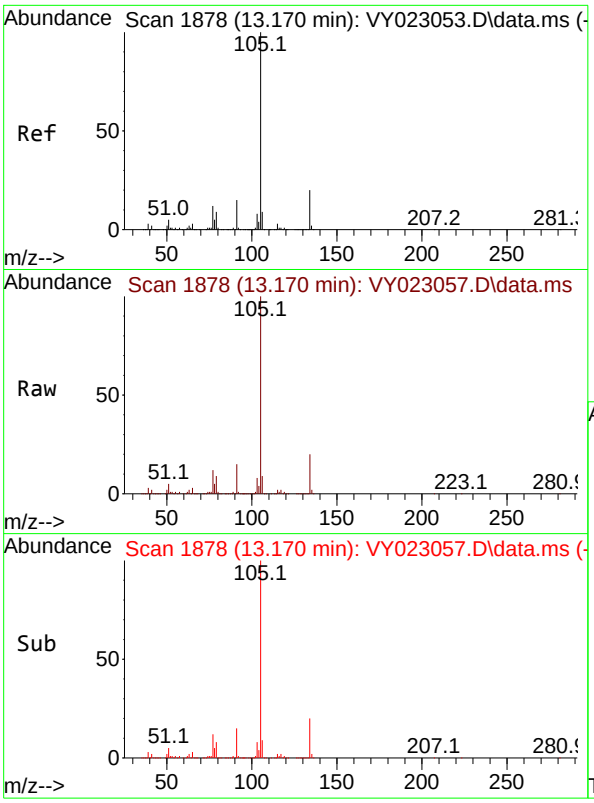


#84
1,2,4-Trimethylbenzene
Concen: 51.042 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1092616

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0



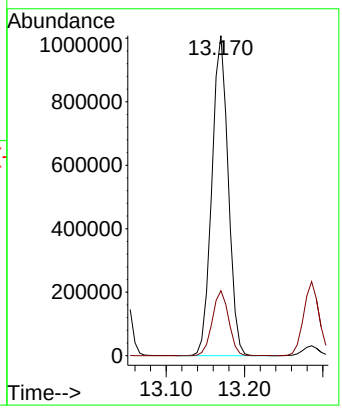


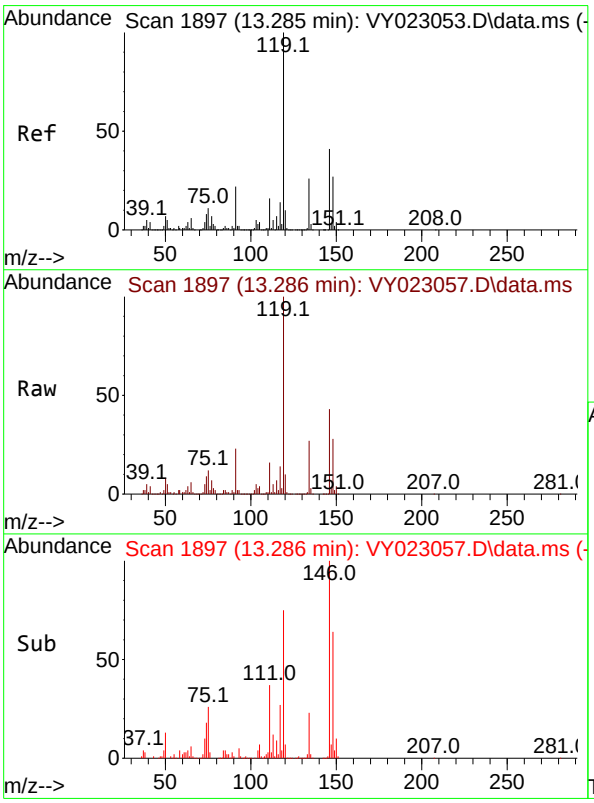
#85
sec-Butylbenzene
Concen: 51.154 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:105 Resp: 1459437

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

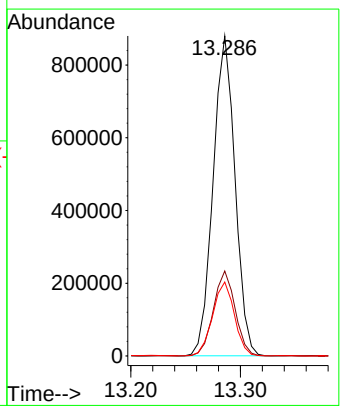


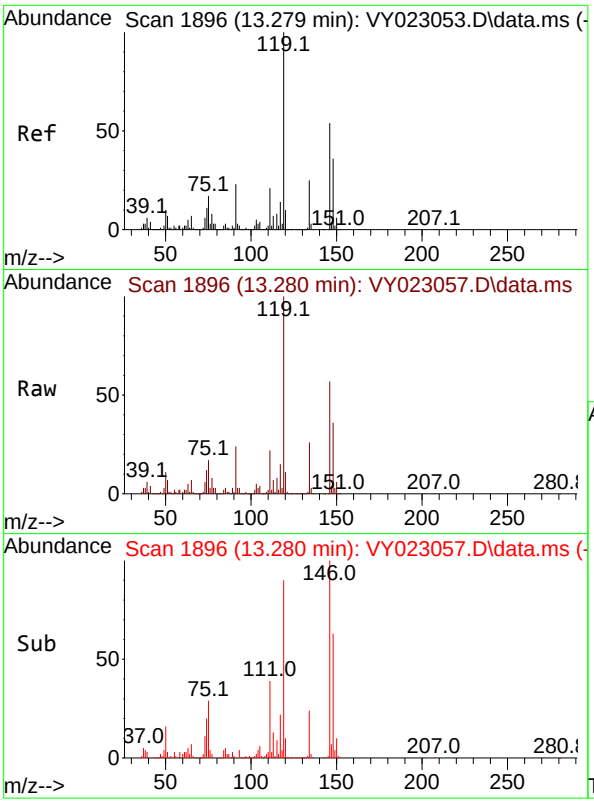


#86
p-Isopropyltoluene
Concen: 51.639 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:119 Resp: 1222900

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.6
91	22.9	11.3	33.8



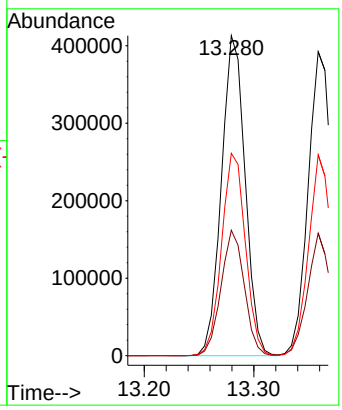


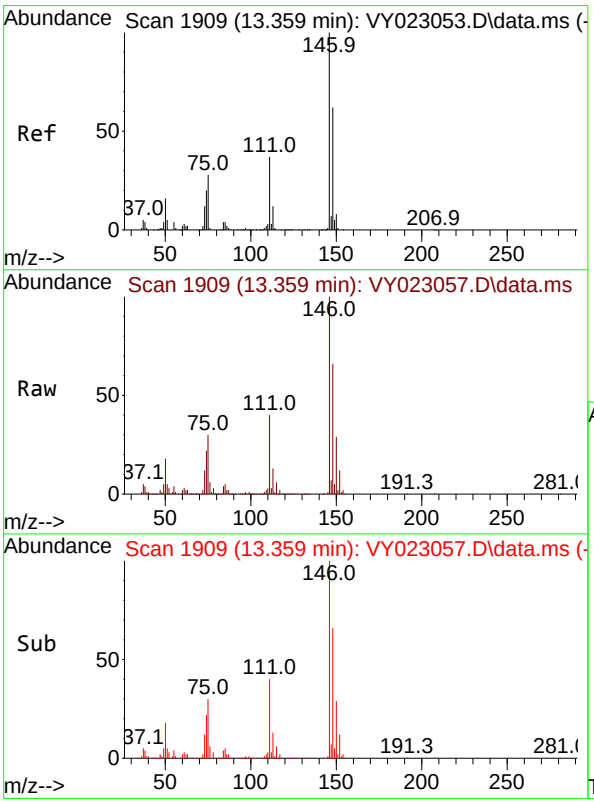
#87
1,3-Dichlorobenzene
Concen: 49.639 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:146 Resp: 621371

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.7
148	63.5	32.5	97.5

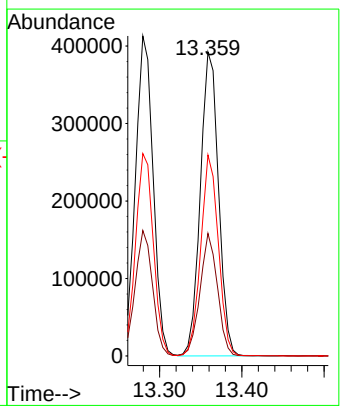


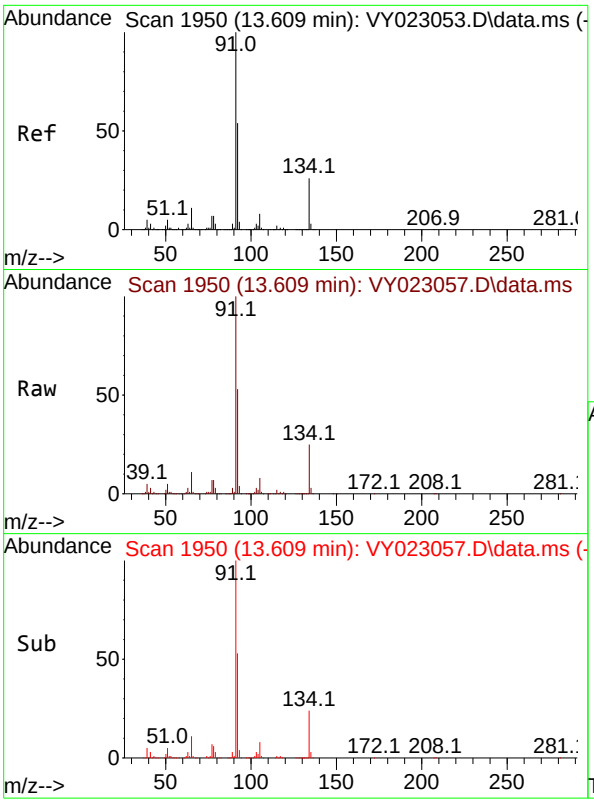


#88
1,4-Dichlorobenzene
Concen: 48.514 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 602429

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.1
148	64.1	31.6	94.7



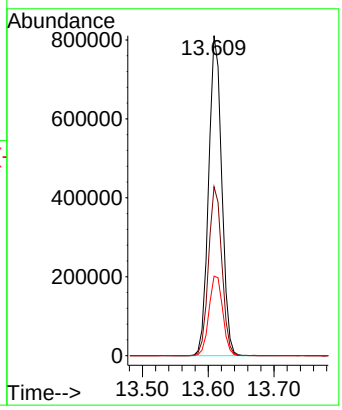


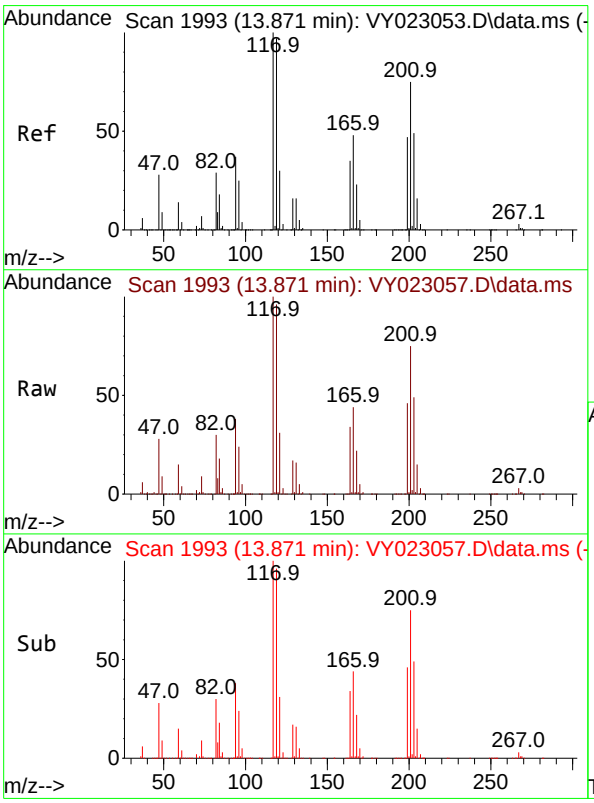
#89
n-Butylbenzene
Concen: 51.594 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 91 Resp: 1122189

Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.7
134	26.2	13.2	39.5

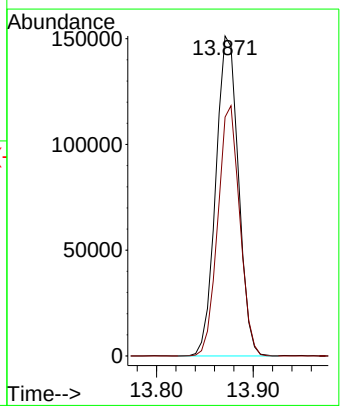


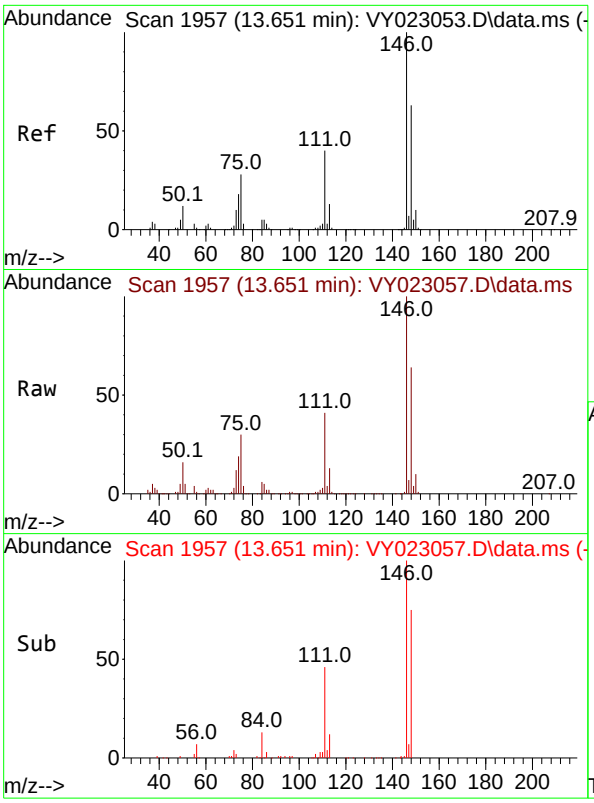


#90
Hexachloroethane
Concen: 50.617 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 245386

Ion	Ratio	Lower	Upper
117	100		
201	75.7	38.4	115.1



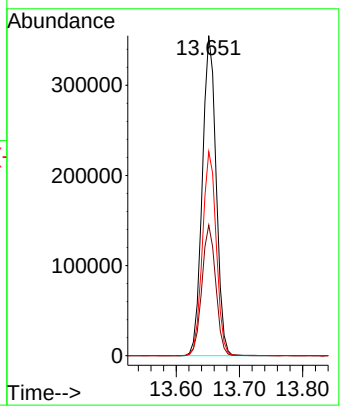


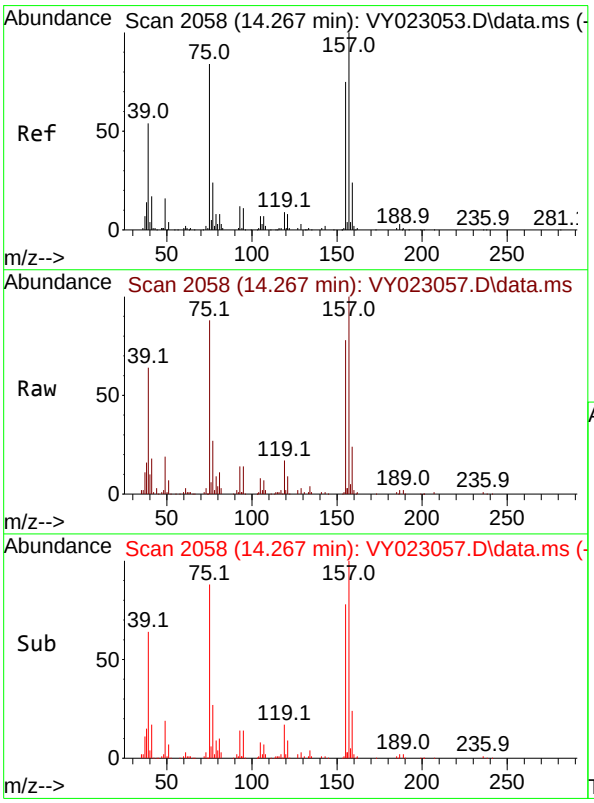
#91
1,2-Dichlorobenzene
Concen: 49.234 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:146 Resp: 540506

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	63.5	32.2	96.6

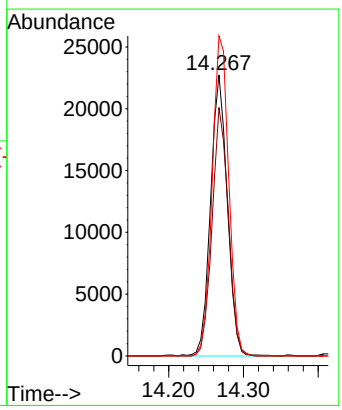


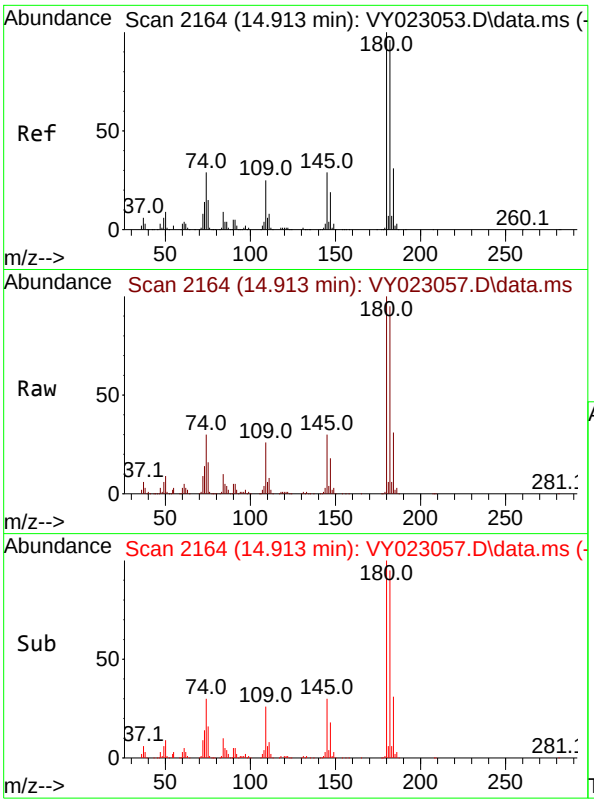


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.085 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35428

Ion	Ratio	Lower	Upper
75	100		
155	86.0	43.9	131.6
157	112.9	57.2	171.6



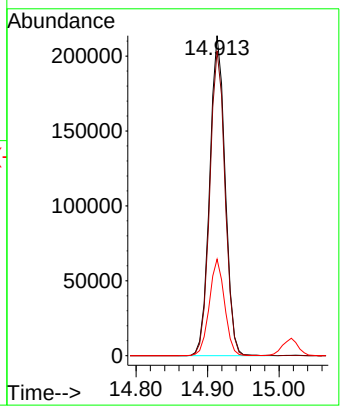


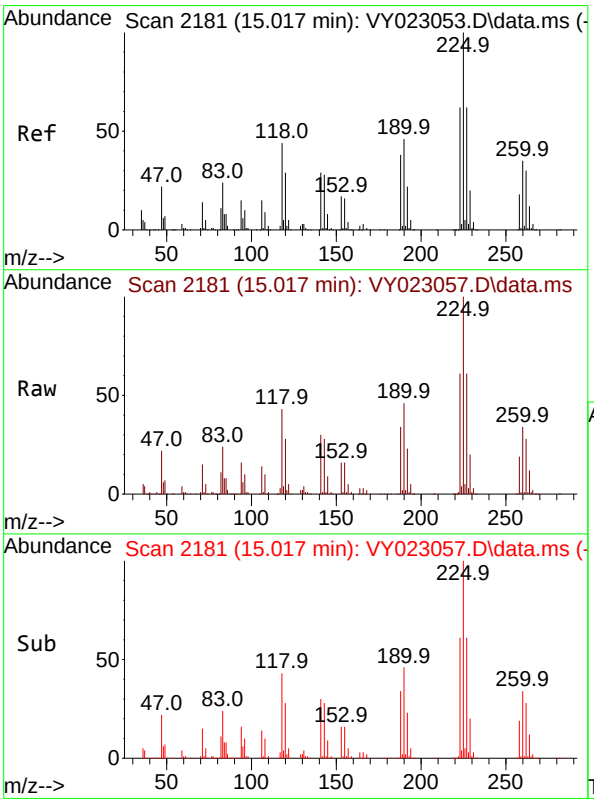
#93
1,2,4-Trichlorobenzene
Concen: 49.363 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:180 Resp: 320472

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.4
145	29.8	14.4	43.4

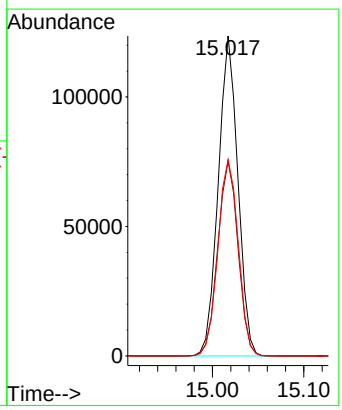


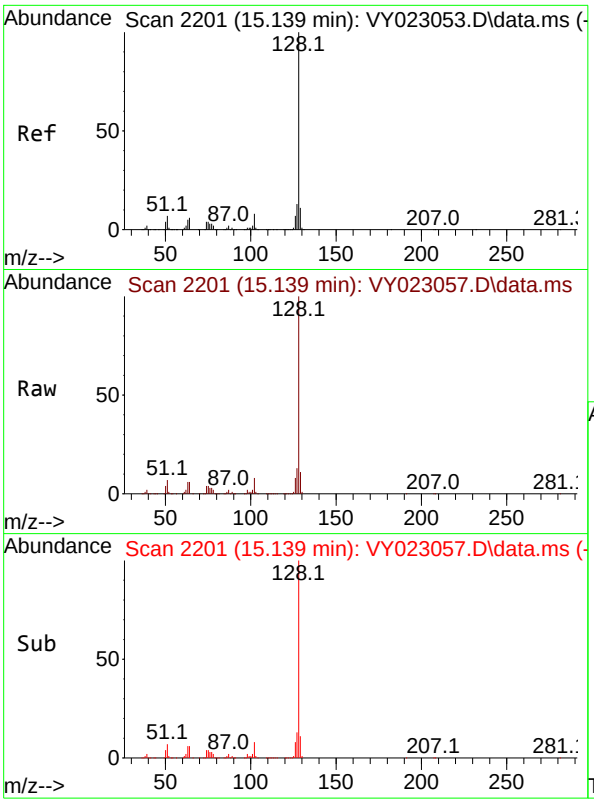


#94
Hexachlorobutadiene
Concen: 48.344 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:225 Resp: 184430

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.3	93.8
227	63.8	31.5	94.5



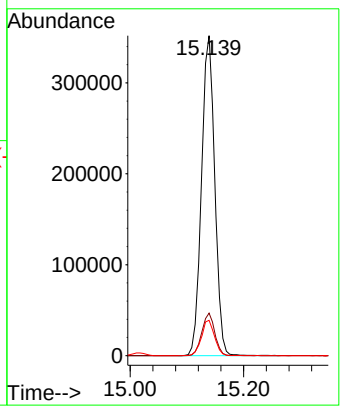


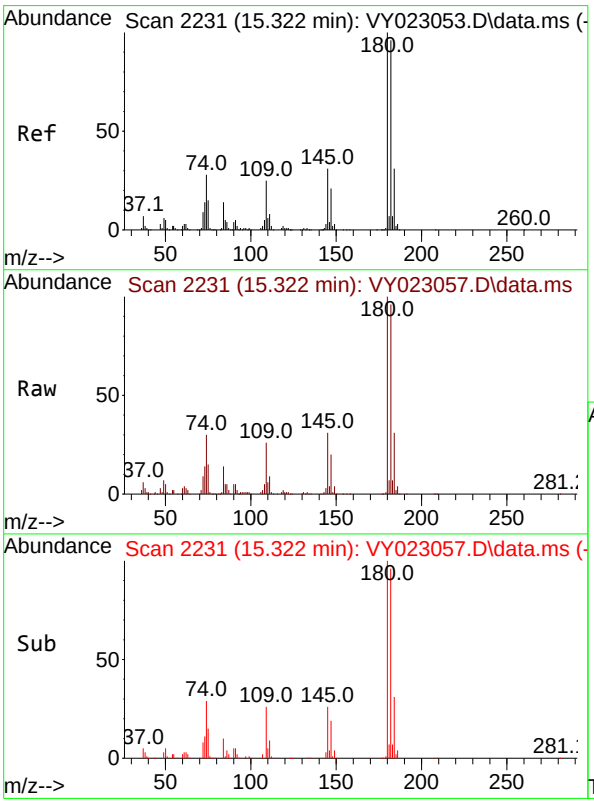
#95
Naphthalene
Concen: 51.623 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:128 Resp: 571480

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.9	9.0	13.4

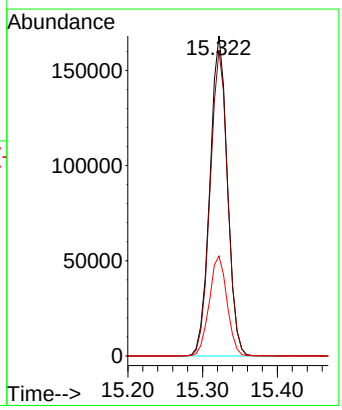




#96
1,2,3-Trichlorobenzene
Concen: 48.735 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:180 Resp: 272638

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.7
145	31.7	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	443799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	696916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	607348	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	306948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	212960	50.349	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.700%			
35) Dibromofluoromethane	7.634	113	215688	51.722	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.440%			
50) Toluene-d8	10.103	98	840812	51.612	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.220%			
62) 4-Bromofluorobenzene	12.402	95	262368	50.079	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	147210	40.637	ug/l	97
3) Chloromethane	2.068	50	288876	49.235	ug/l	97
4) Vinyl Chloride	2.202	62	388634	53.584	ug/l	99
5) Bromomethane	2.598	94	292335	53.970	ug/l	100
6) Chloroethane	2.733	64	266036	55.172	ug/l	99
7) Trichlorofluoromethane	3.050	101	435783	49.413	ug/l	97
8) Diethyl Ether	3.458	74	109033	46.730	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	214906	49.394	ug/l	98
10) Methyl Iodide	4.001	142	251096	53.482	ug/l	96
11) Tert butyl alcohol	4.866	59	59139	204.058	ug/l #	84
12) 1,1-Dichloroethene	3.793	96	209124	48.899	ug/l	94
13) Acrolein	3.647	56	67121	158.141	ug/l	99
14) Allyl chloride	4.379	41	305726	48.583	ug/l	98
15) Acrylonitrile	5.061	53	226259	238.524	ug/l	99
16) Acetone	3.866	43	257167	280.645	ug/l	99
17) Carbon Disulfide	4.104	76	674565	48.375	ug/l	100
18) Methyl Acetate	4.385	43	131808	48.336	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	536488	48.411	ug/l	99
20) Methylene Chloride	4.610	84	241025	50.654	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	243549	50.676	ug/l	99
22) Diisopropyl ether	6.012	45	696767	50.954	ug/l	94
23) Vinyl Acetate	5.958	43	1859565	245.935	ug/l	99
24) 1,1-Dichloroethane	5.915	63	429668	51.394	ug/l	99
25) 2-Butanone	6.890	43	316503	253.961	ug/l	98
26) 2,2-Dichloropropane	6.884	77	379004	52.538	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	285339	51.356	ug/l	99
28) Bromochloromethane	7.244	49	175456	52.898	ug/l	97
29) Tetrahydrofuran	7.262	42	183118	237.044	ug/l	98
30) Chloroform	7.421	83	451255	52.336	ug/l	99
31) Cyclohexane	7.701	56	375108	47.613	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	394056	51.507	ug/l	99
36) 1,1-Dichloropropene	7.835	75	317586	51.245	ug/l	99
37) Ethyl Acetate	6.982	43	125483	48.201	ug/l	100
38) Carbon Tetrachloride	7.817	117	352681	52.395	ug/l	98
39) Methylcyclohexane	9.109	83	406063	49.756	ug/l	97
40) Benzene	8.079	78	1014264	53.099	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	56915	37.881	ug/l	#	75
42) 1,2-Dichloroethane	8.158	62	258937	52.122	ug/l		100
43) Isopropyl Acetate	8.195	43	250740	47.653	ug/l	#	85
44) Trichloroethene	8.866	130	255103	51.680	ug/l		97
45) 1,2-Dichloropropane	9.140	63	233639	53.160	ug/l		99
46) Dibromomethane	9.225	93	131880	52.280	ug/l		99
47) Bromodichloromethane	9.420	83	345709	53.260	ug/l		98
48) Methyl methacrylate	9.219	41	121834	48.387	ug/l		96
49) 1,4-Dioxane	9.225	88	28081	949.382	ug/l		96
51) 4-Methyl-2-Pentanone	10.000	43	674267	248.424	ug/l		100
52) Toluene	10.170	92	646468	53.288	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	302783	51.512	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	364333	52.418	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	175309	51.936	ug/l		98
56) Ethyl methacrylate	10.438	69	213704	49.477	ug/l		98
57) 1,3-Dichloropropane	10.713	76	293968	51.352	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	531531	260.887	ug/l		100
59) 2-Hexanone	10.756	43	471343	255.032	ug/l		98
60) Dibromochloromethane	10.908	129	231138	51.895	ug/l		100
61) 1,2-Dibromoethane	11.012	107	160069	50.454	ug/l		100
64) Tetrachloroethene	10.646	164	284630	52.484	ug/l		99
65) Chlorobenzene	11.438	112	693667	52.949	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	239263	53.813	ug/l		98
67) Ethyl Benzene	11.518	91	1219913	54.111	ug/l		99
68) m/p-Xylenes	11.627	106	953446	108.283	ug/l		99
69) o-Xylene	11.950	106	446920	54.193	ug/l		100
70) Styrene	11.969	104	752144	55.770	ug/l		99
71) Bromoform	12.127	173	128745	49.544	ug/l	#	99
73) Isopropylbenzene	12.249	105	1146162	52.906	ug/l		100
74) N-amyl acetate	12.066	43	226300	49.257	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	182753	49.405	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	249491	84.220	ug/l	#	100
77) Bromobenzene	12.530	156	262726	50.833	ug/l		98
78) n-propylbenzene	12.591	91	1396330	54.137	ug/l		100
79) 2-Chlorotoluene	12.676	91	783125	52.993	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	943980	53.915	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	59917	48.961	ug/l		99
82) 4-Chlorotoluene	12.773	91	806542	52.611	ug/l		100
83) tert-Butylbenzene	12.993	119	825002	52.171	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	946009	54.277	ug/l		99
85) sec-Butylbenzene	13.170	105	1234484	53.143	ug/l		99
86) p-Isopropyltoluene	13.286	119	1047646	54.334	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	536529	52.641	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	520698	51.501	ug/l		99
89) n-Butylbenzene	13.615	91	955218	53.939	ug/l		98
90) Hexachloroethane	13.877	117	209441	53.061	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	460235	51.489	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	27552	47.839	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	243376	46.042	ug/l		98
94) Hexachlorobutadiene	15.017	225	144679	46.578	ug/l		99
95) Naphthalene	15.139	128	408671	45.340	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	208542	45.784	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

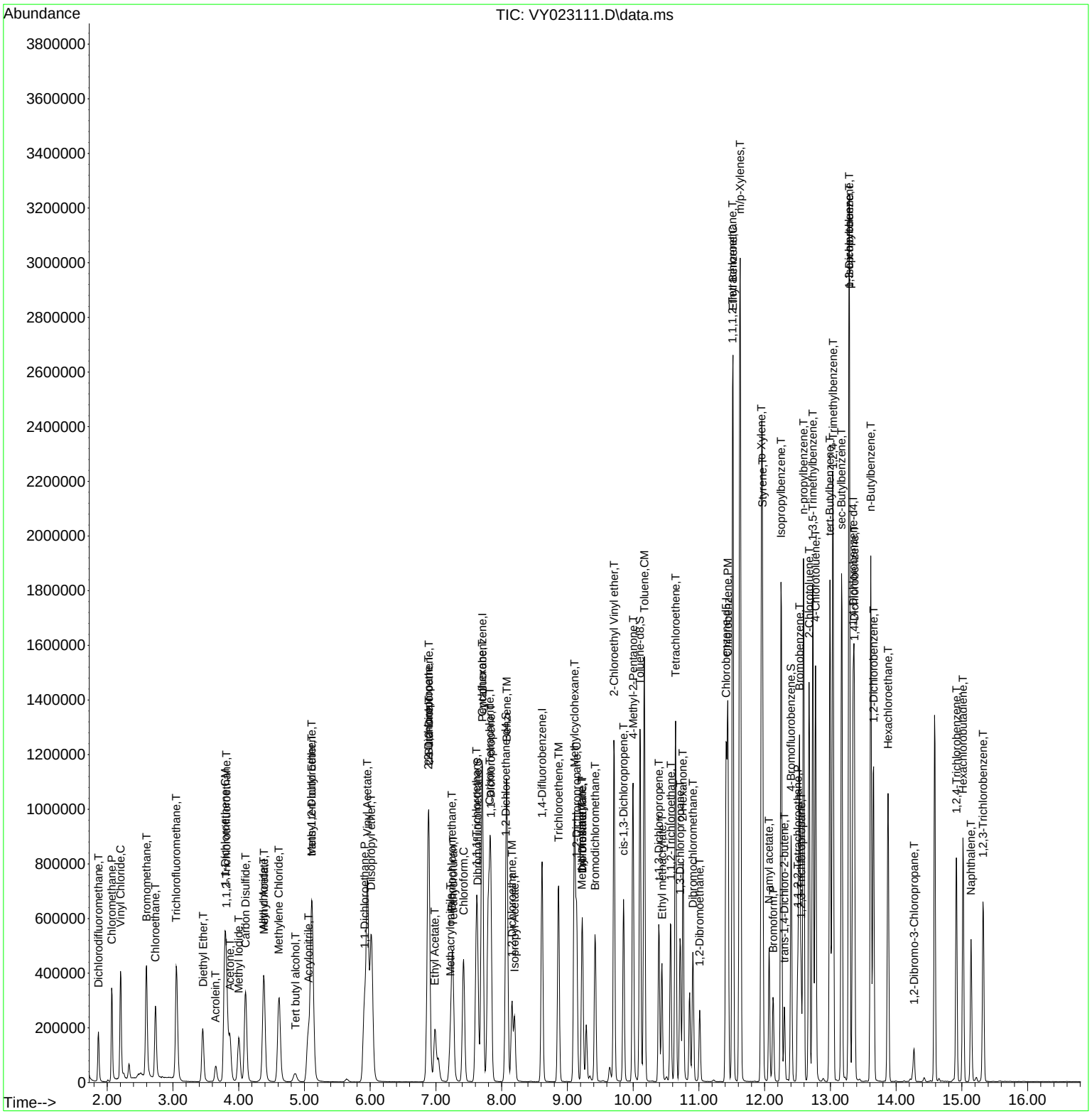
(#) = qualifier out of range (m) = manual integration (+) = signals summed

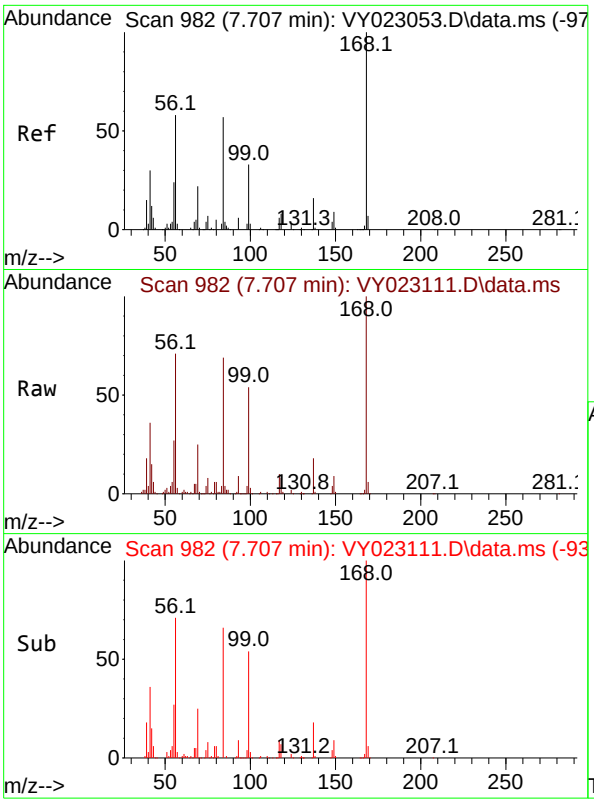
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023111.D
Acq On : 15 Aug 2025 08:39
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 18 02:22:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



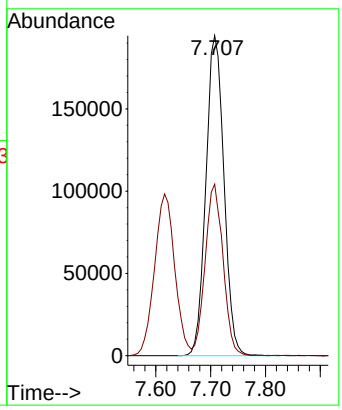


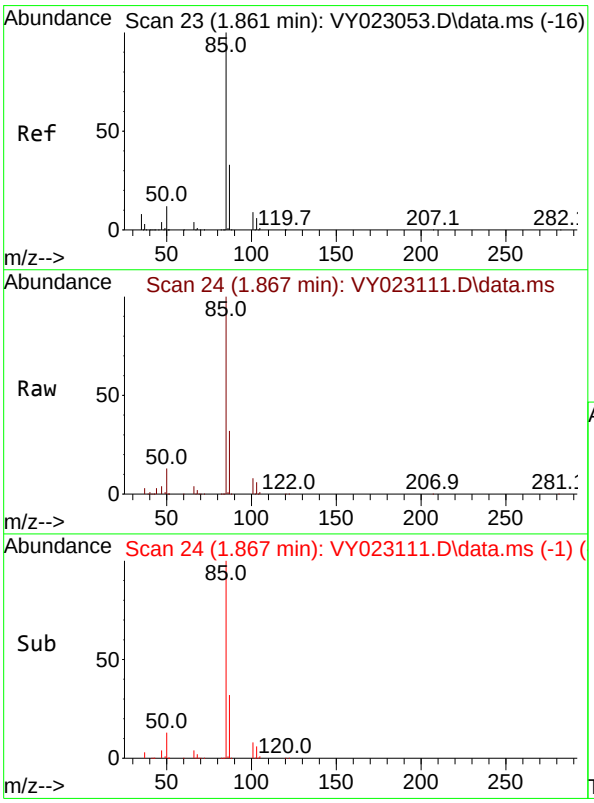
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 443799

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2

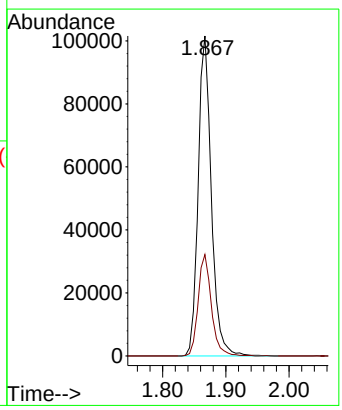


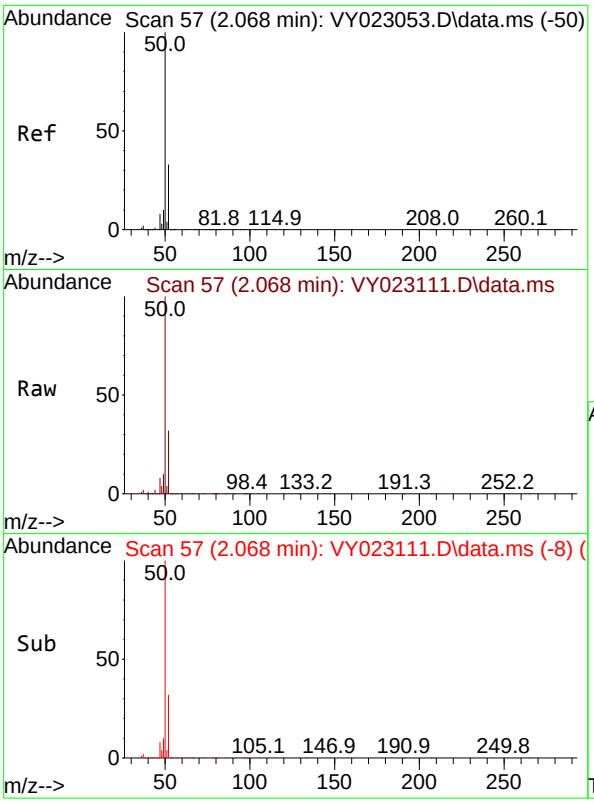


#2
Dichlorodifluoromethane
Concen: 40.637 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 85 Resp: 147210

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.6	49.8



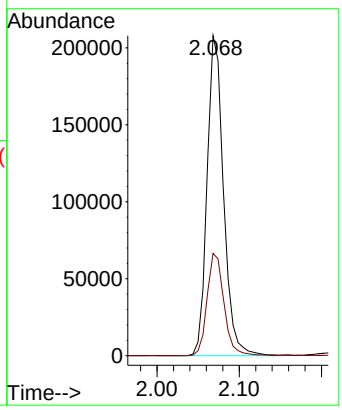


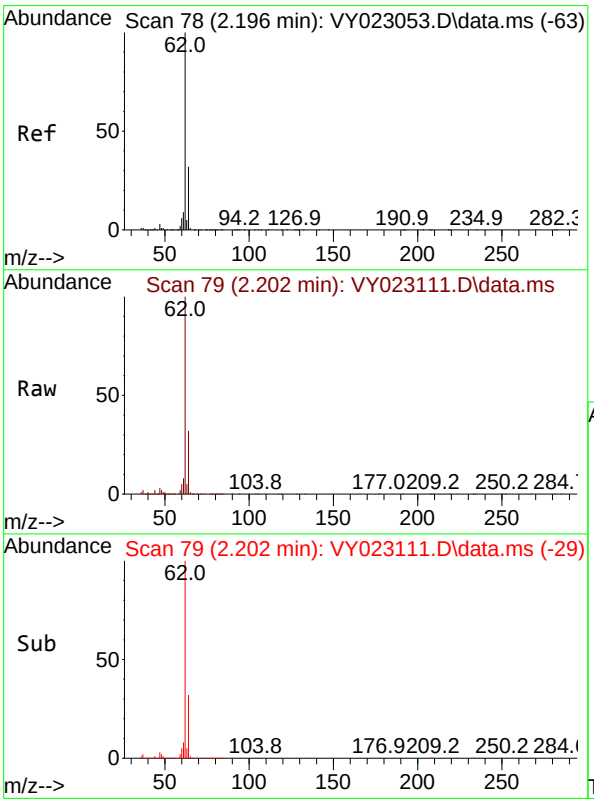
#3
Chloromethane
Concen: 49.235 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 288876

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1

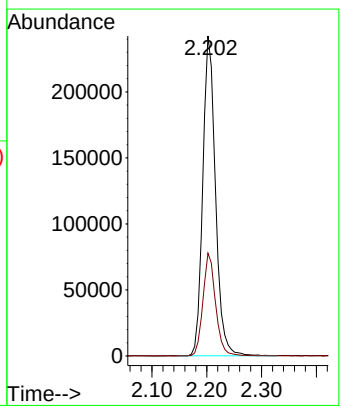


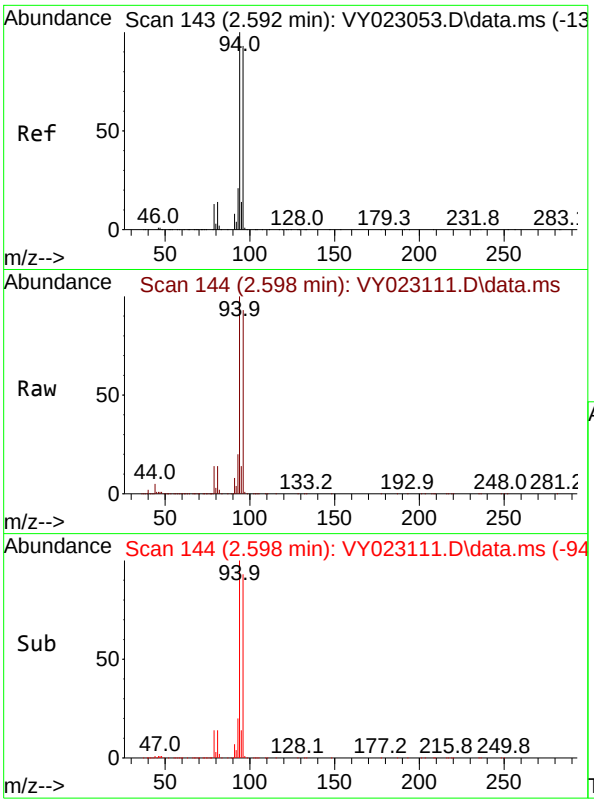


#4
Vinyl Chloride
Concen: 53.584 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 62 Resp: 388634

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0



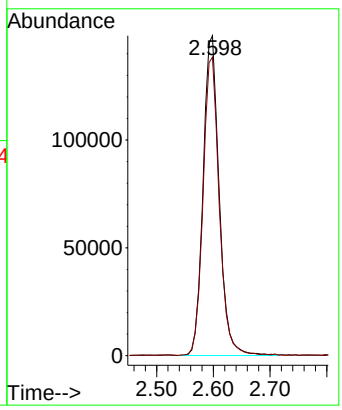


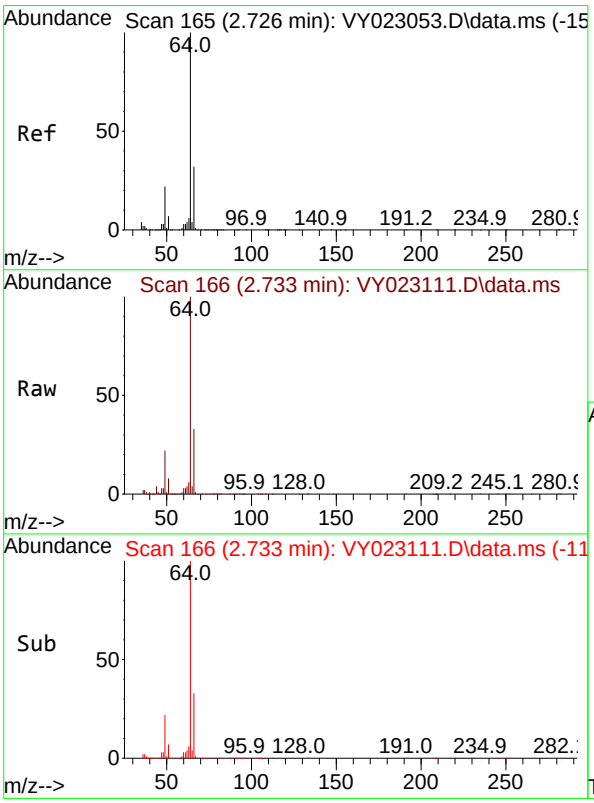
#5
Bromomethane
Concen: 53.970 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 292335

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0

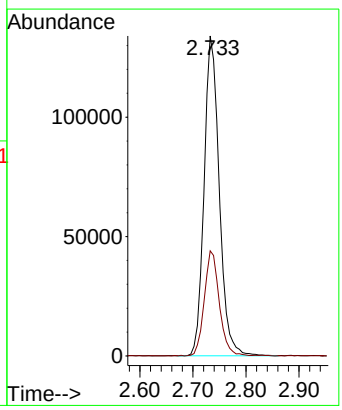


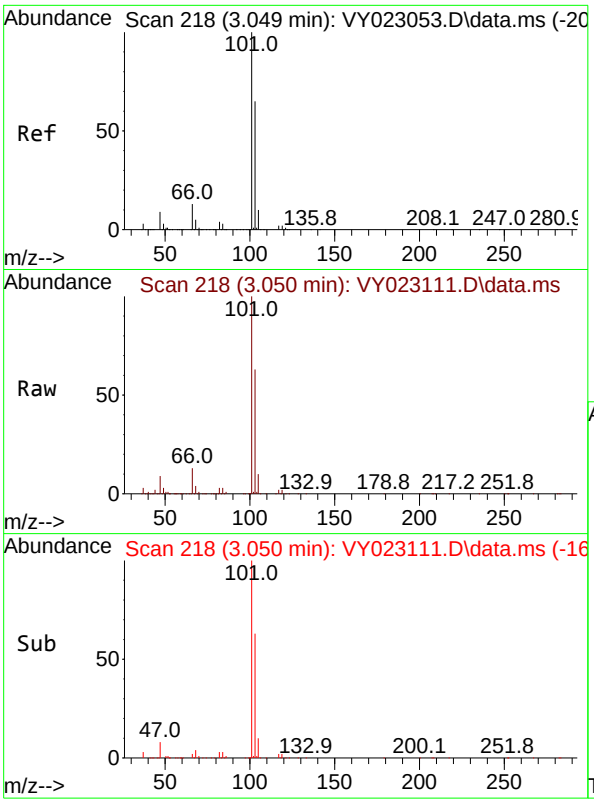


#6
Chloroethane
Concen: 55.172 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 64 Resp: 266036

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.8	38.6



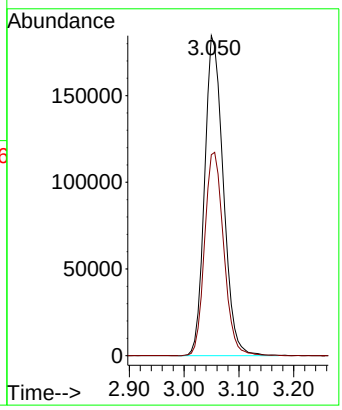


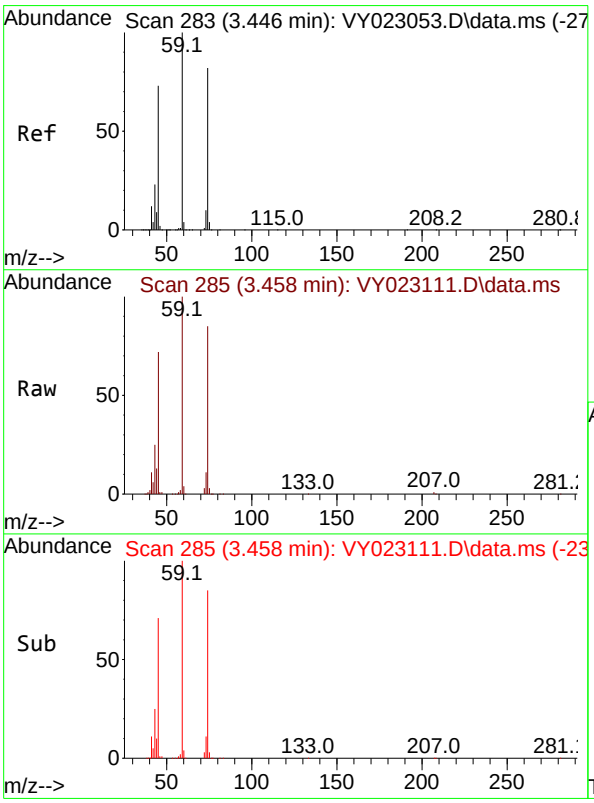
#7
Trichlorofluoromethane
Concen: 49.413 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 435783

Ion	Ratio	Lower	Upper
101	100		
103	62.8	51.9	77.9

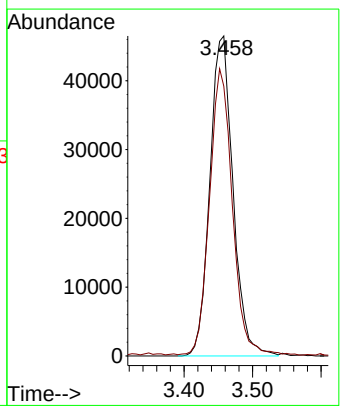


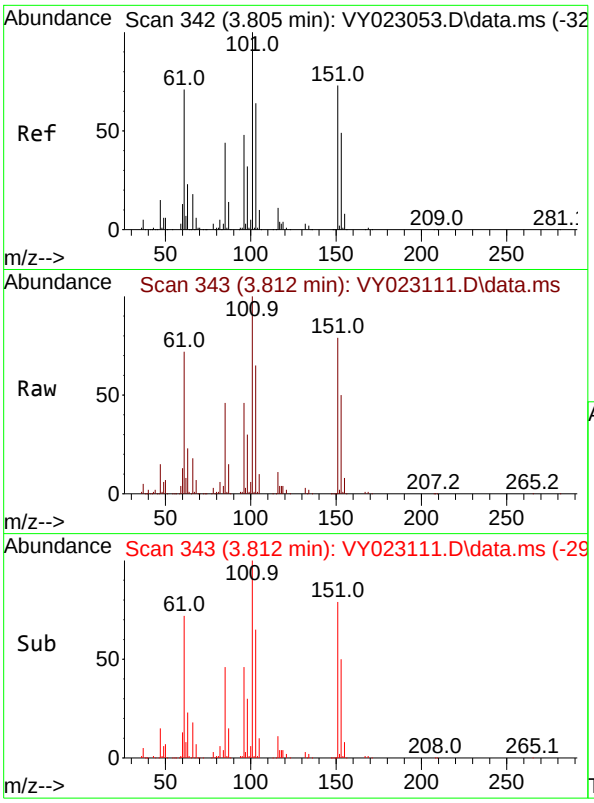


#8
Diethyl Ether
Concen: 46.730 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 74 Resp: 109033

Ion	Ratio	Lower	Upper
74	100		
45	88.3	44.4	133.2



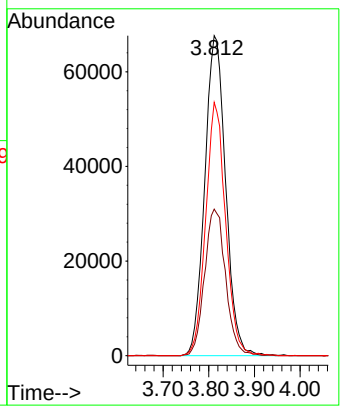


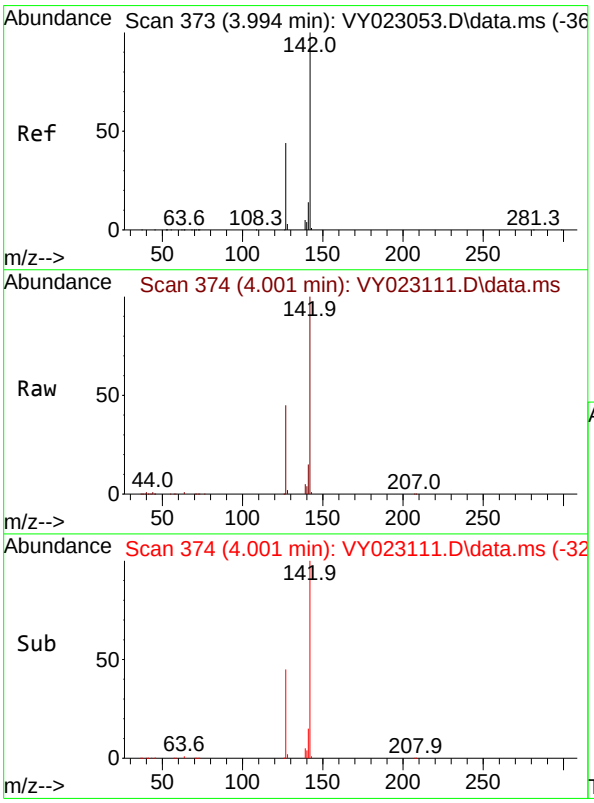
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.394 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 214906

Ion	Ratio	Lower	Upper
101	100		
85	46.1	36.3	54.5
151	75.4	61.5	92.3

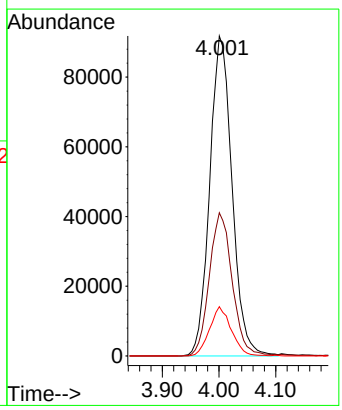


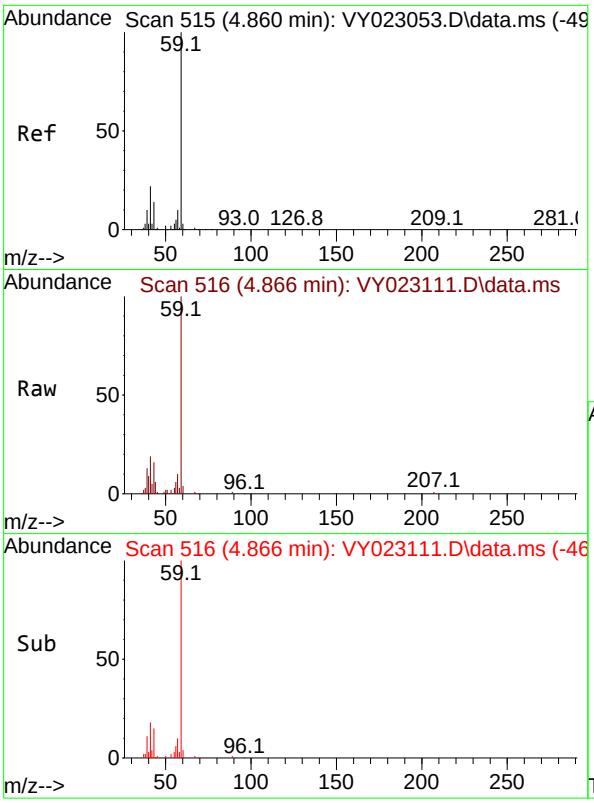


#10
Methyl Iodide
Concen: 53.482 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:142 Resp: 251096

Ion	Ratio	Lower	Upper
142	100		
127	46.2	34.9	52.3
141	15.0	11.3	16.9



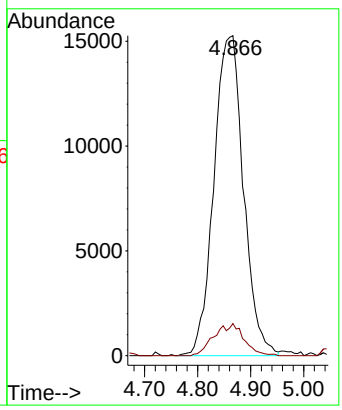


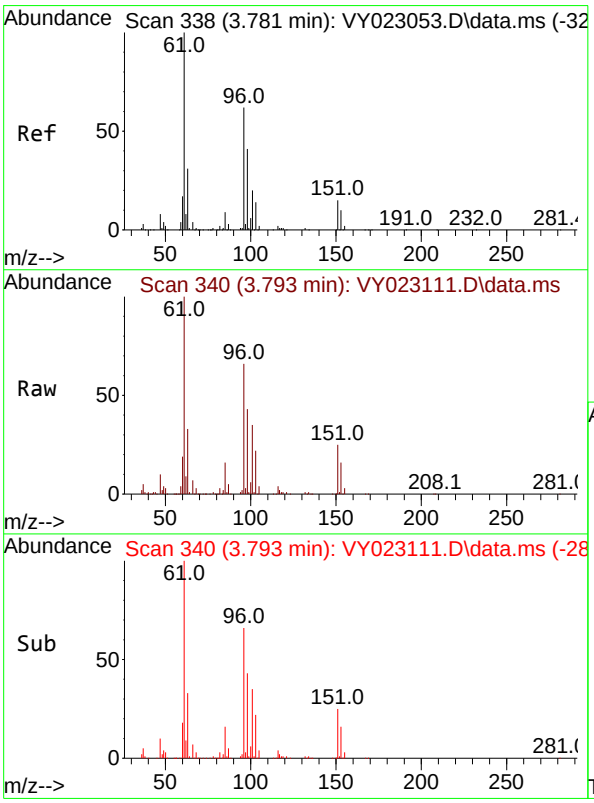
#11
Tert butyl alcohol
Concen: 204.058 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 59139

Ion	Ratio	Lower	Upper
59	100		
57	4.9	8.6	13.0#

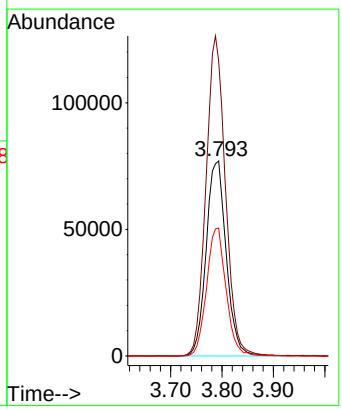


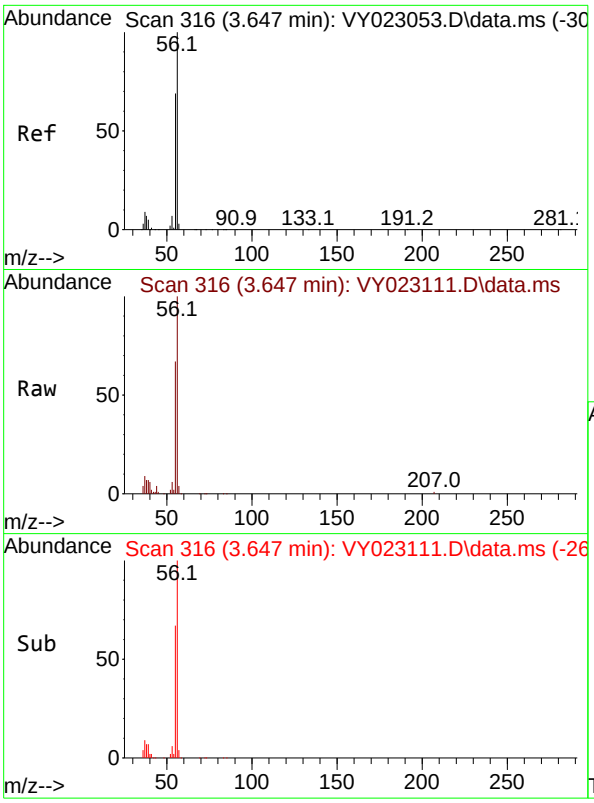


#12
1,1-Dichloroethene
Concen: 48.899 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 96 Resp: 209124

Ion	Ratio	Lower	Upper
96	100		
61	151.1	129.4	194.2
98	65.5	52.8	79.2



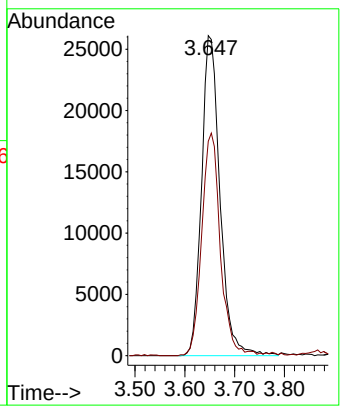


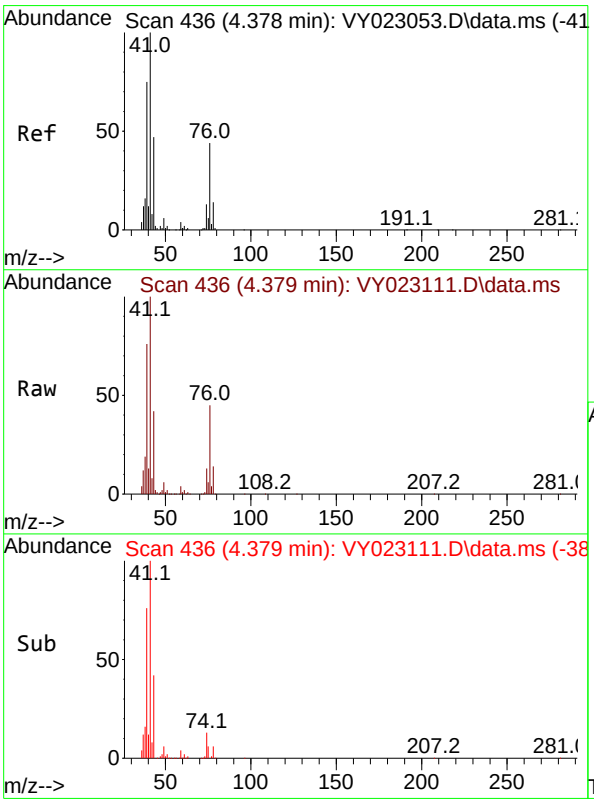
#13
Acrolein
Concen: 158.141 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 67121

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.2	82.8

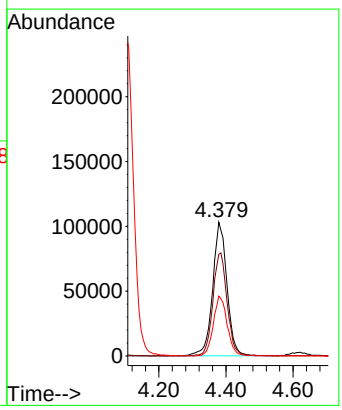


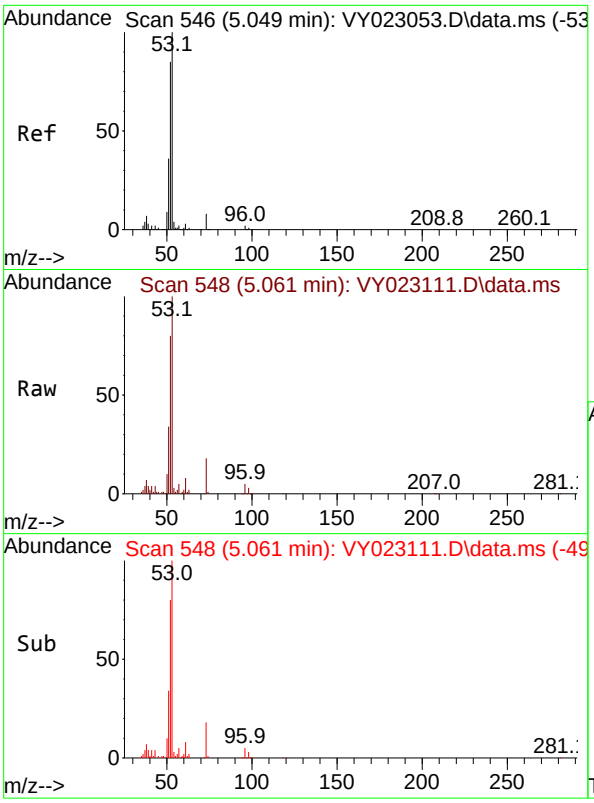


#14
Allyl chloride
Concen: 48.583 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 41 Resp: 305726

Ion	Ratio	Lower	Upper
41	100		
39	76.2	59.8	89.6
76	43.2	33.7	50.5



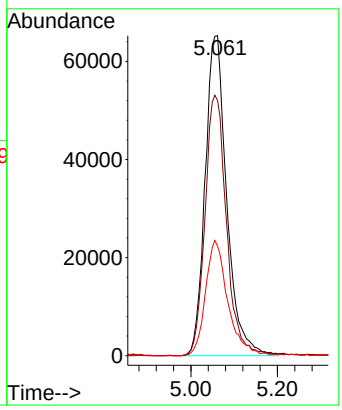


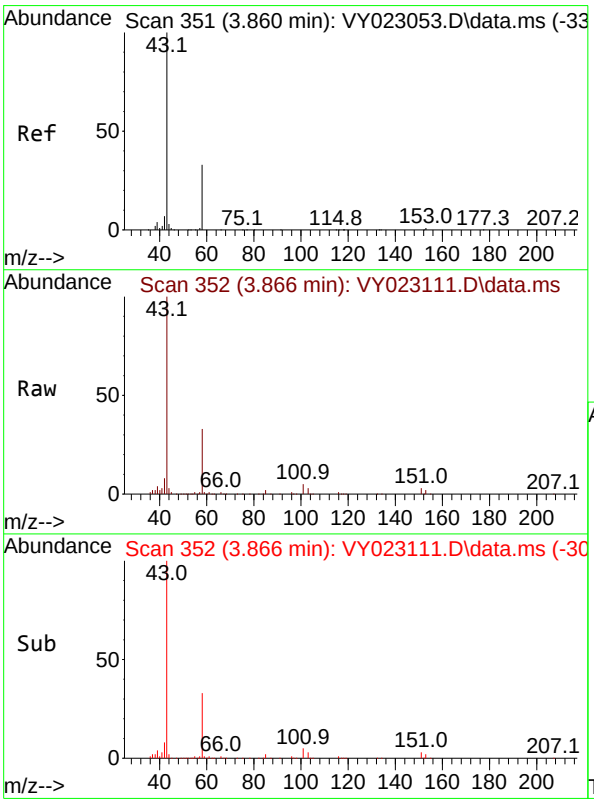
#15
Acrylonitrile
Concen: 238.524 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 226259

Ion	Ratio	Lower	Upper
53	100		
52	80.6	65.3	97.9
51	37.1	29.5	44.3

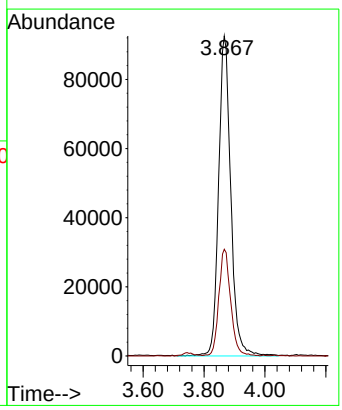


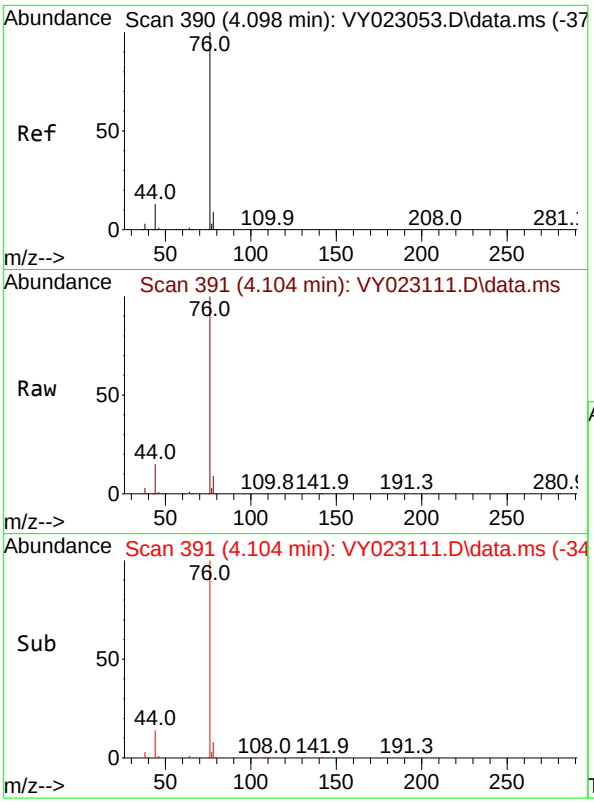


#16
Acetone
Concen: 280.645 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 257167

Ion	Ratio	Lower	Upper
43	100		
58	33.3	27.1	40.7



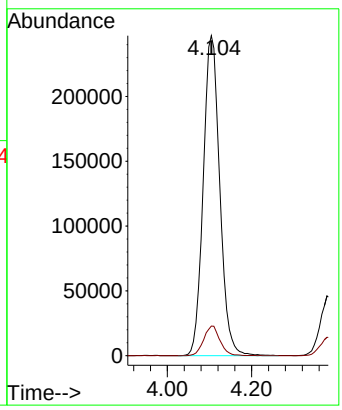


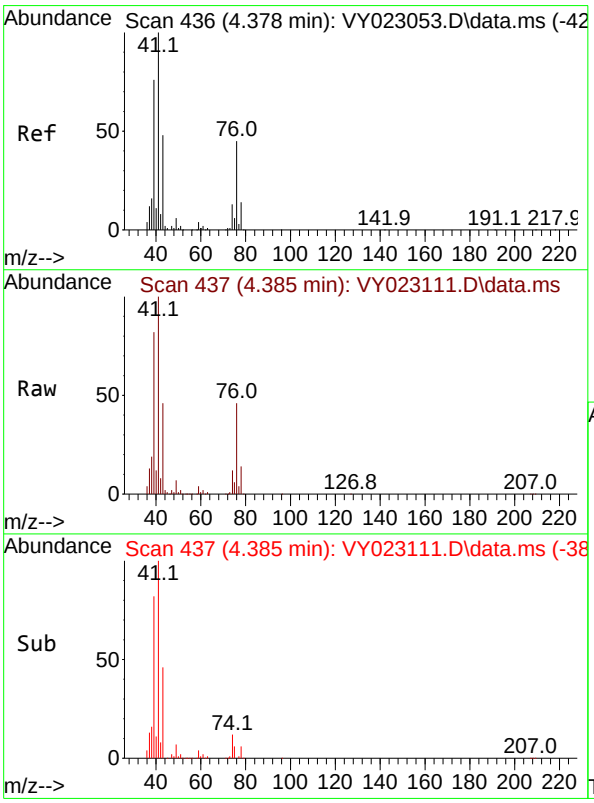
#17
Carbon Disulfide
Concen: 48.375 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 674565

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

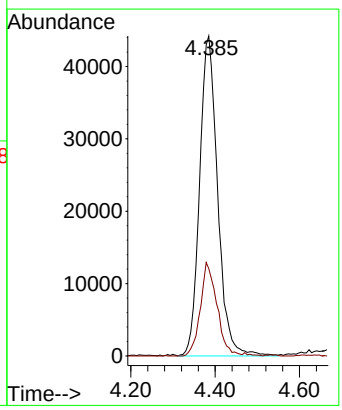


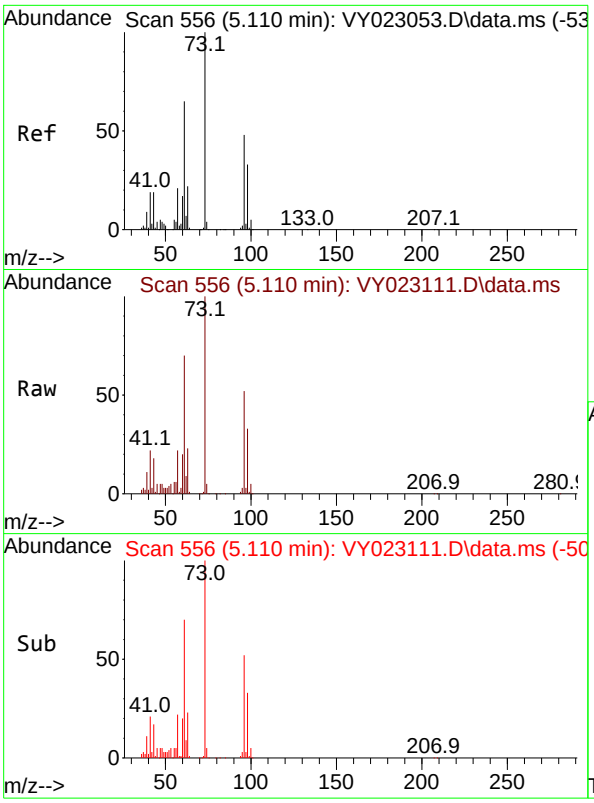


#18
Methyl Acetate
Concen: 48.336 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 131808

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8



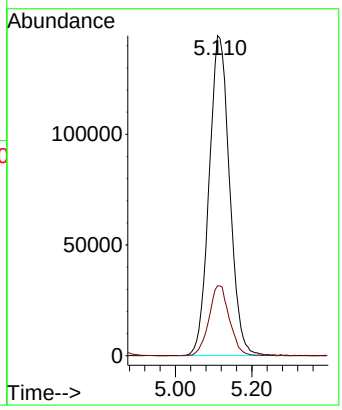


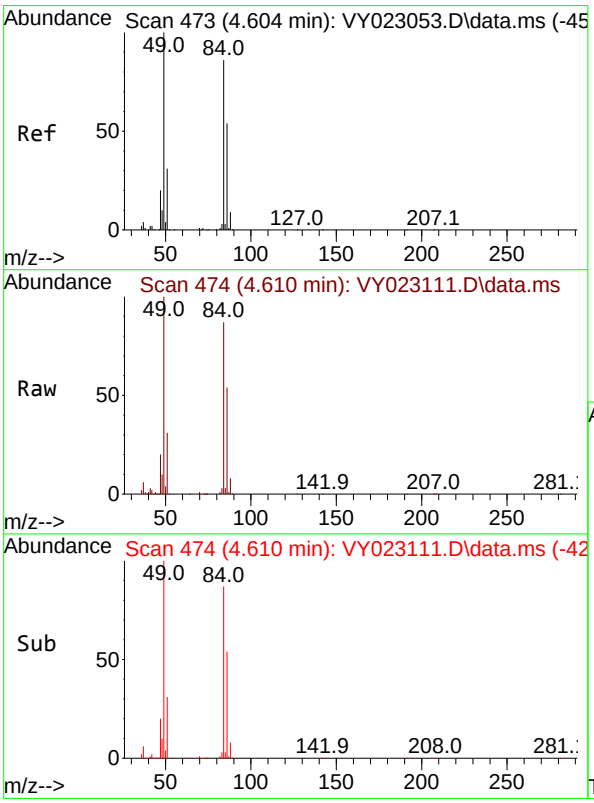
#19
Methyl tert-butyl Ether
Concen: 48.411 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 536488

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.1	25.7

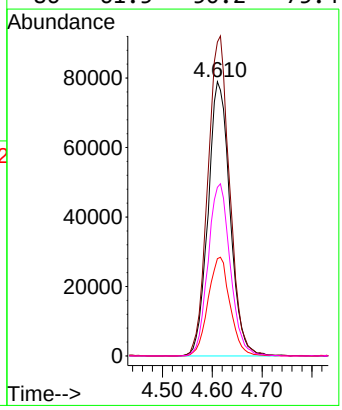


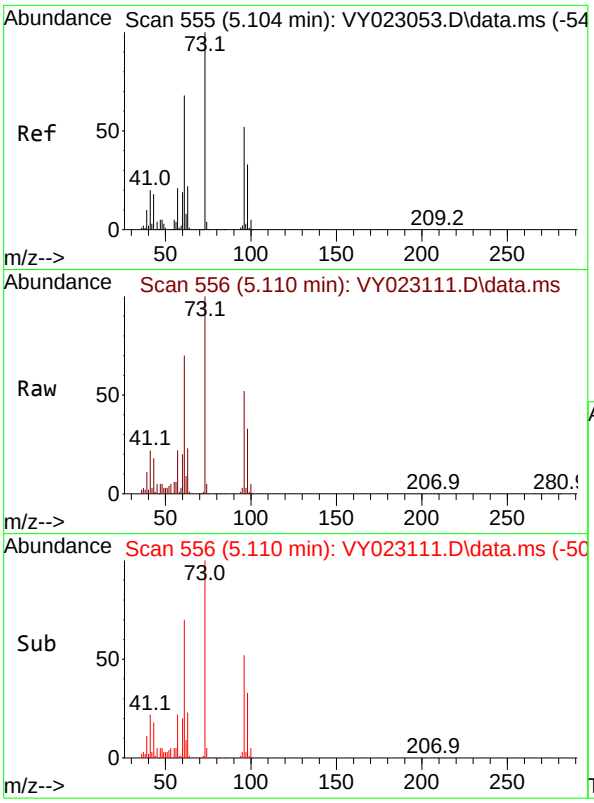


#20
Methylene Chloride
Concen: 50.654 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 84 Resp: 241025

Ion	Ratio	Lower	Upper
84	100		
49	114.5	93.0	139.6
51	35.4	29.0	43.4
86	61.5	50.2	75.4



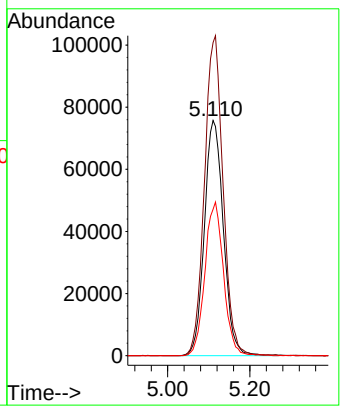


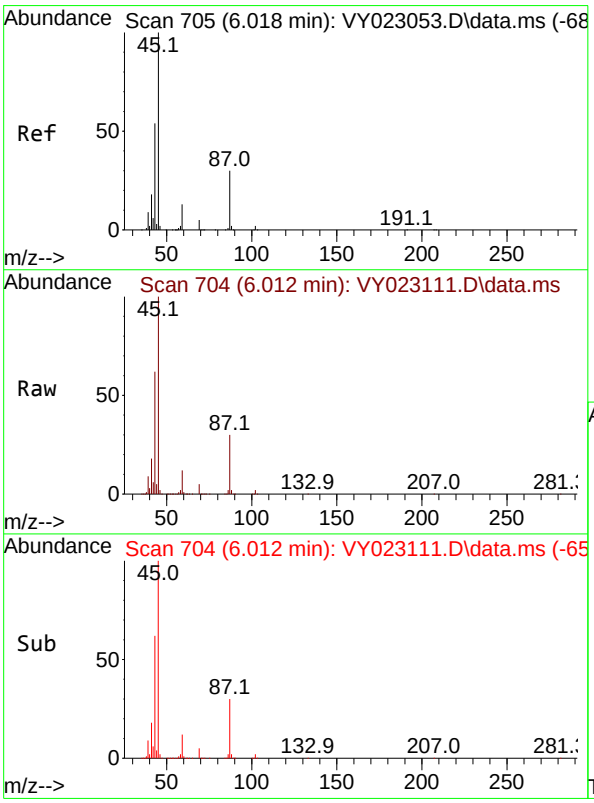
#21
trans-1,2-Dichloroethene
Concen: 50.676 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 243549

Ion	Ratio	Lower	Upper
96	100		
61	133.1	104.8	157.2
98	62.2	50.1	75.1

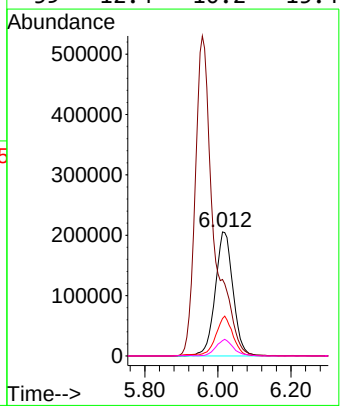


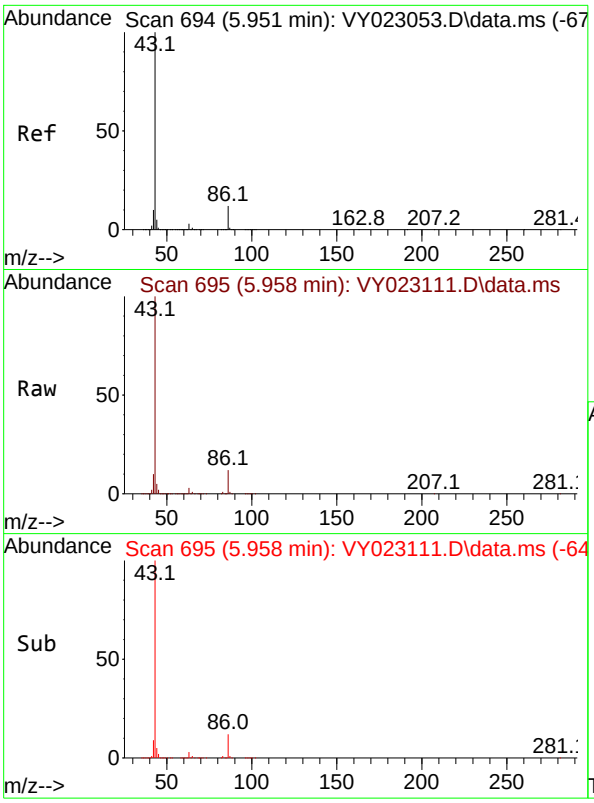


#22
Diisopropyl ether
Concen: 50.954 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 45 Resp: 696767

Ion	Ratio	Lower	Upper
45	100		
43	61.4	43.4	65.0
87	30.2	24.4	36.6
59	12.4	10.2	15.4



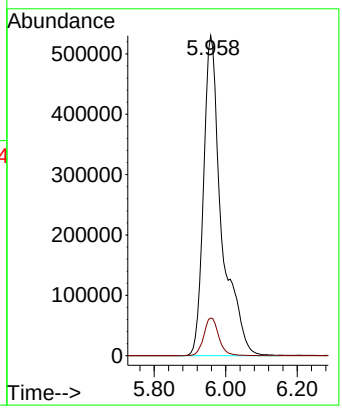


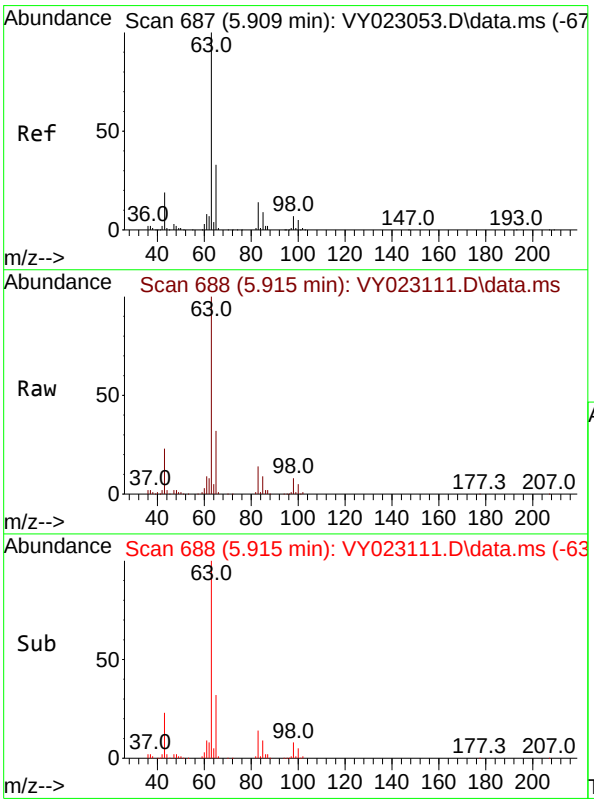
#23
Vinyl Acetate
Concen: 245.935 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1859565

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.6	14.4

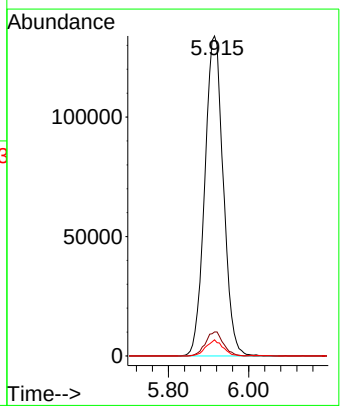


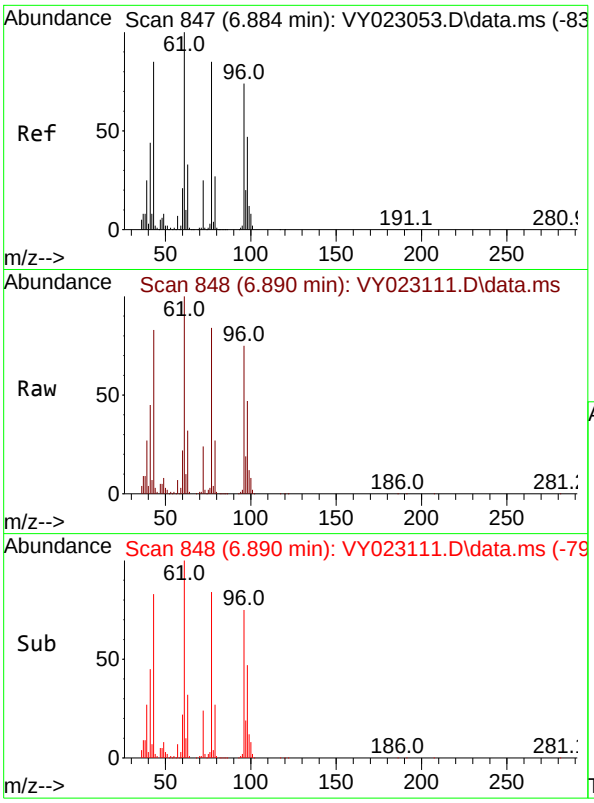


#24
1,1-Dichloroethane
Concen: 51.394 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 63 Resp: 429668

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.5	10.6
100	5.1	2.4	7.1



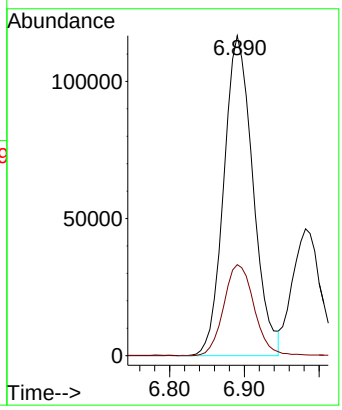


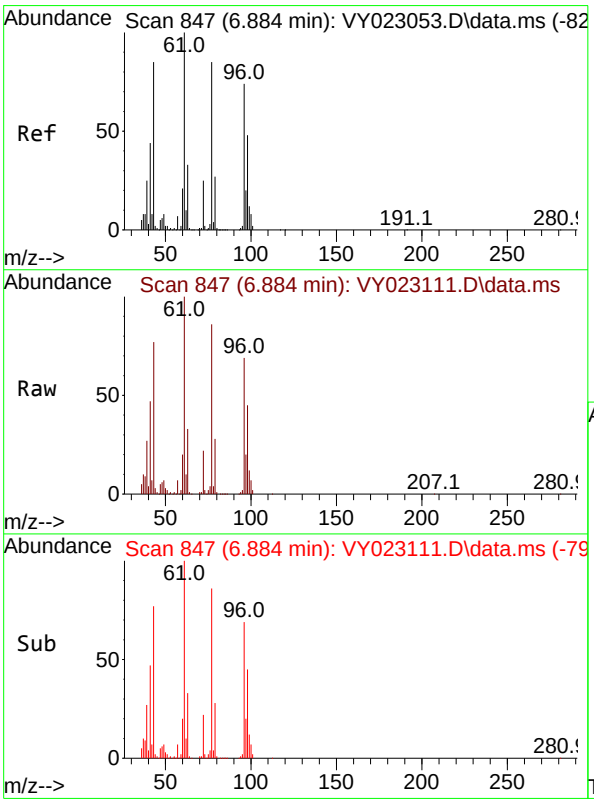
#25
2-Butanone
Concen: 253.961 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 316503

Ion	Ratio	Lower	Upper
43	100		
72	28.4	23.5	35.3

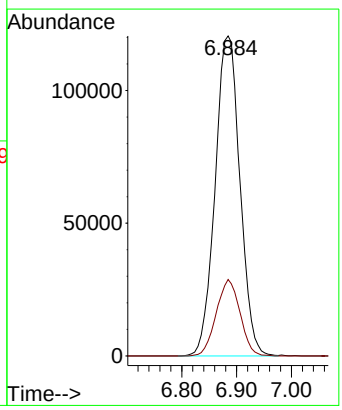


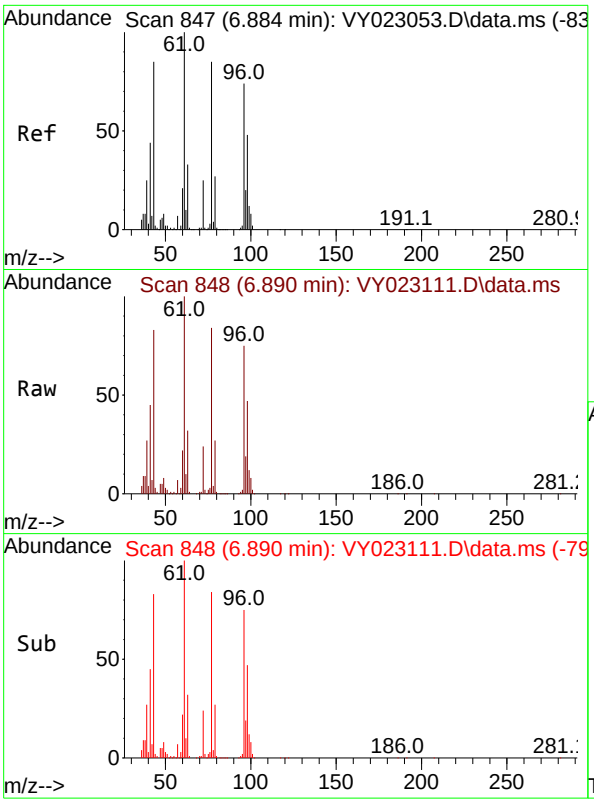


#26
2,2-Dichloropropane
Concen: 52.538 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 77 Resp: 379004

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.6	34.8



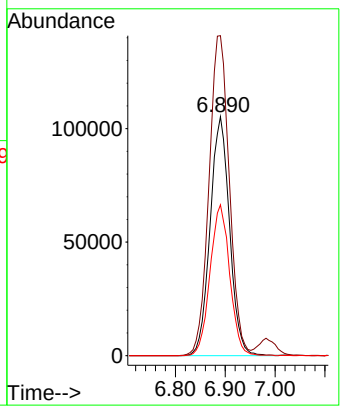


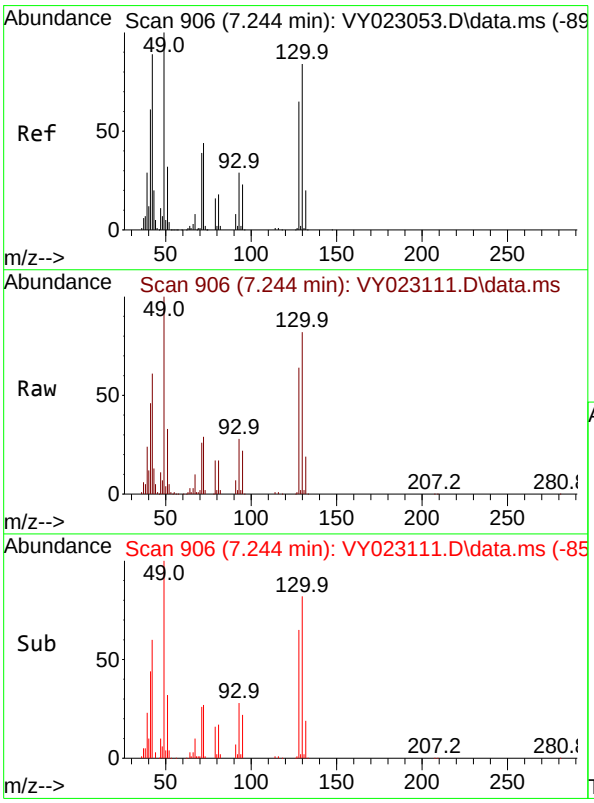
#27
cis-1,2-Dichloroethene
Concen: 51.356 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 285339

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	278.6
98	63.8	0.0	130.4

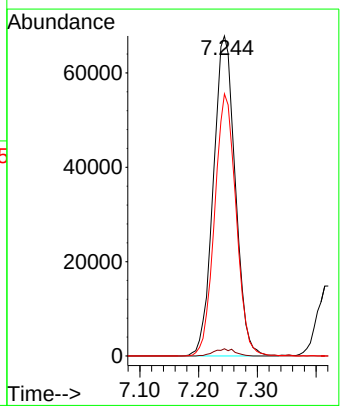


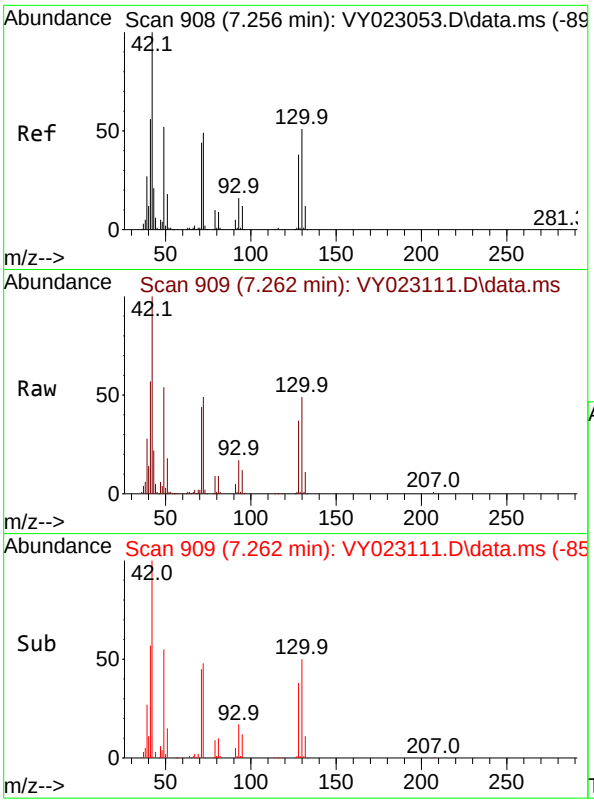


#28
Bromochloromethane
Concen: 52.898 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 49 Resp: 175456

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	80.4	66.4	99.6



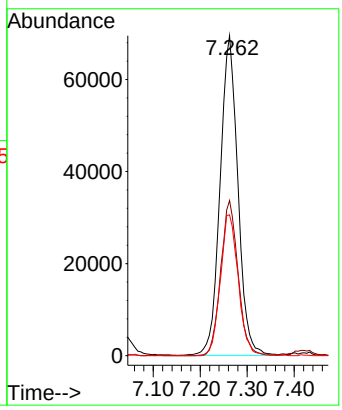


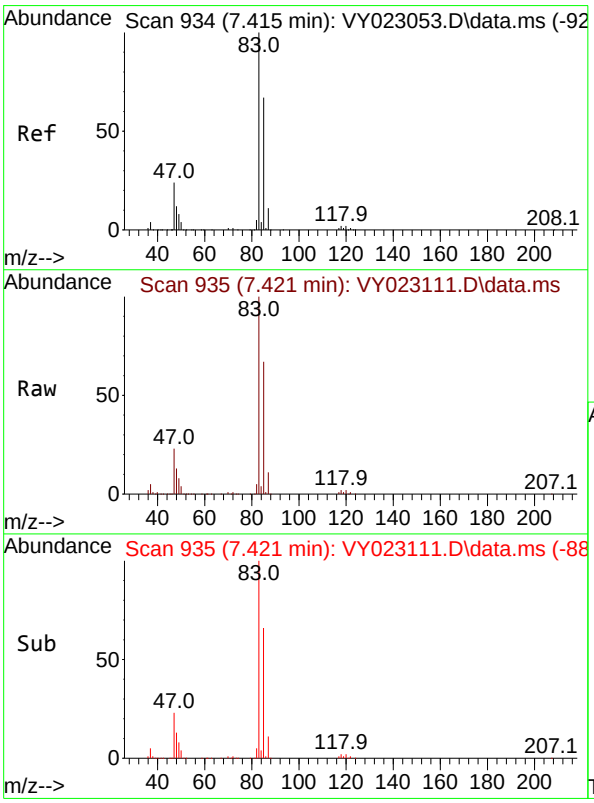
#29
Tetrahydrofuran
Concen: 237.044 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 183118

Ion	Ratio	Lower	Upper
42	100		
72	47.4	39.4	59.2
71	44.2	36.5	54.7

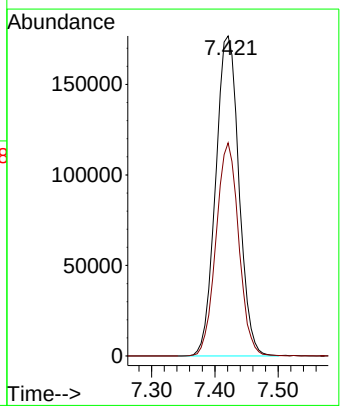


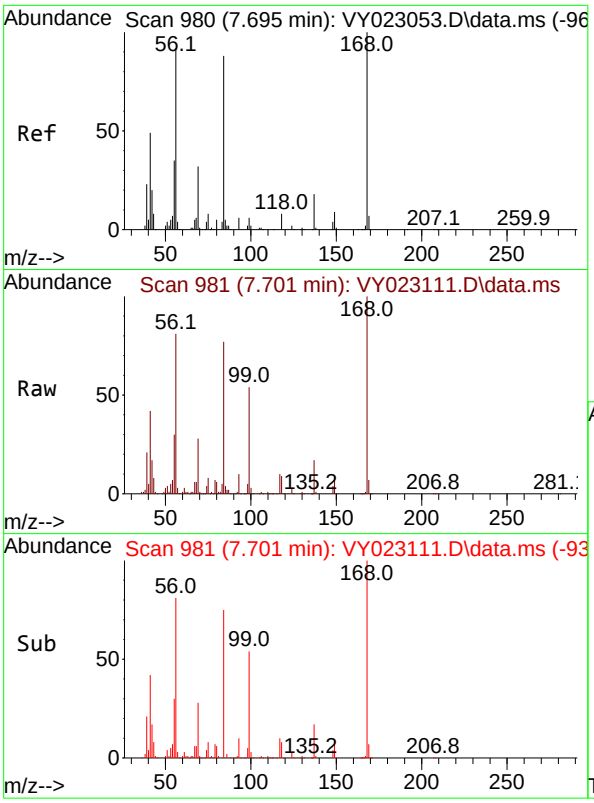


#30
Chloroform
Concen: 52.336 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 83 Resp: 451255

Ion	Ratio	Lower	Upper
83	100		
85	66.6	53.8	80.8



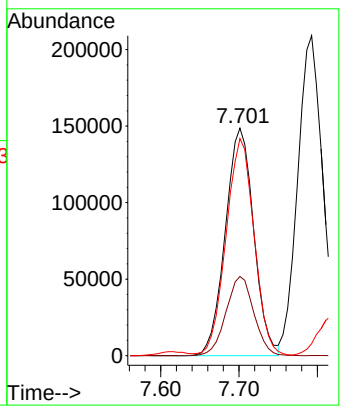


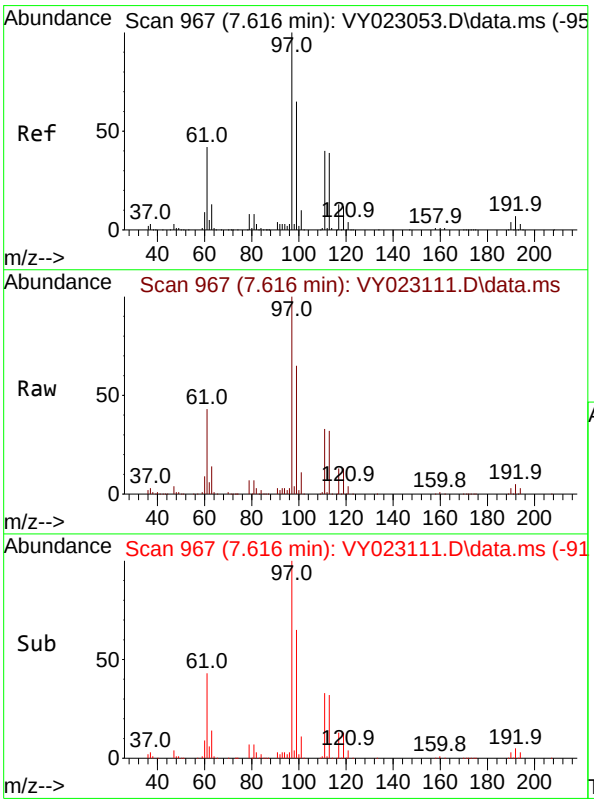
#31
Cyclohexane
Concen: 47.613 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 375108

Ion	Ratio	Lower	Upper
56	100		
69	34.8	28.2	42.2
84	94.0	76.6	114.8

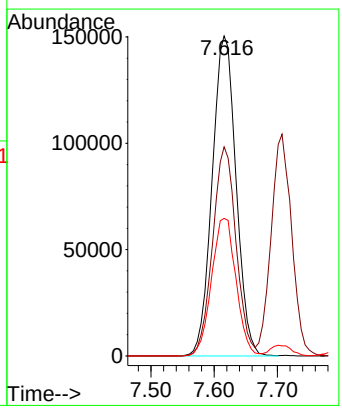


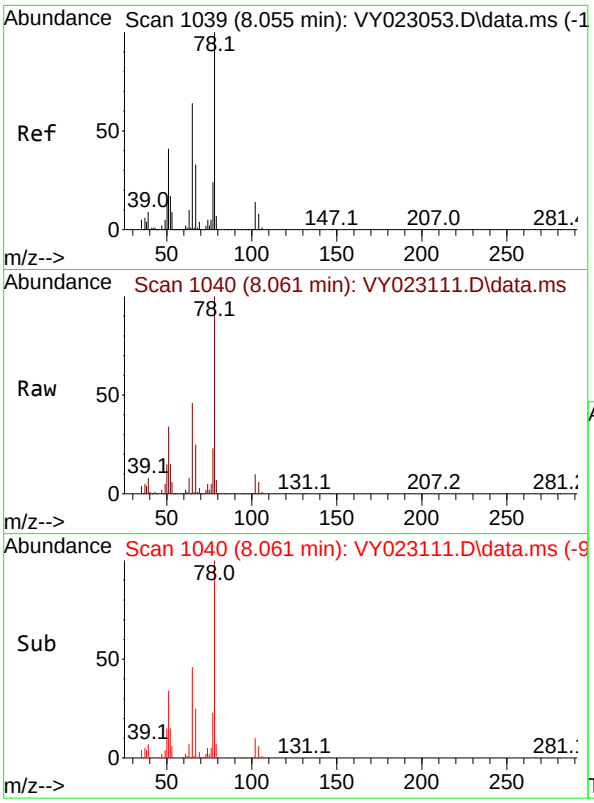


#32
1,1,1-Trichloroethane
Concen: 51.507 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 97 Resp: 394056

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	44.1	34.2	51.2



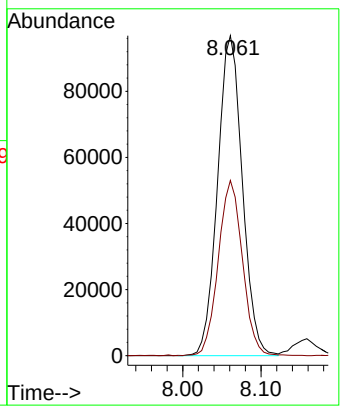


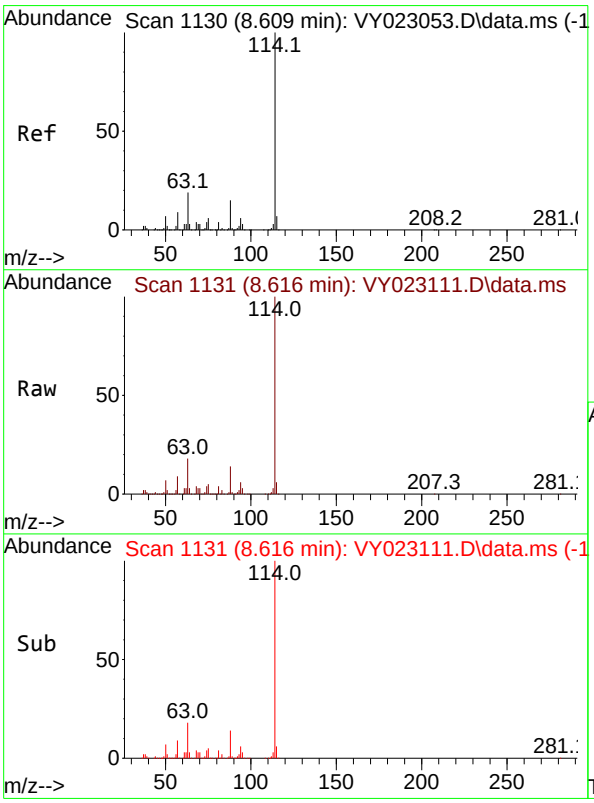
#33
1,2-Dichloroethane-d4
Concen: 50.349 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 212960

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

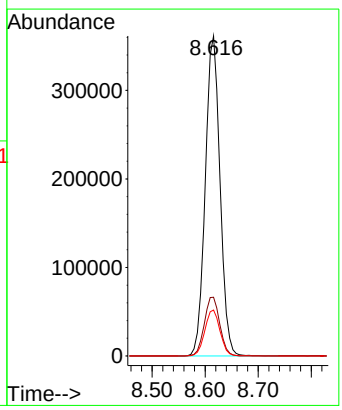


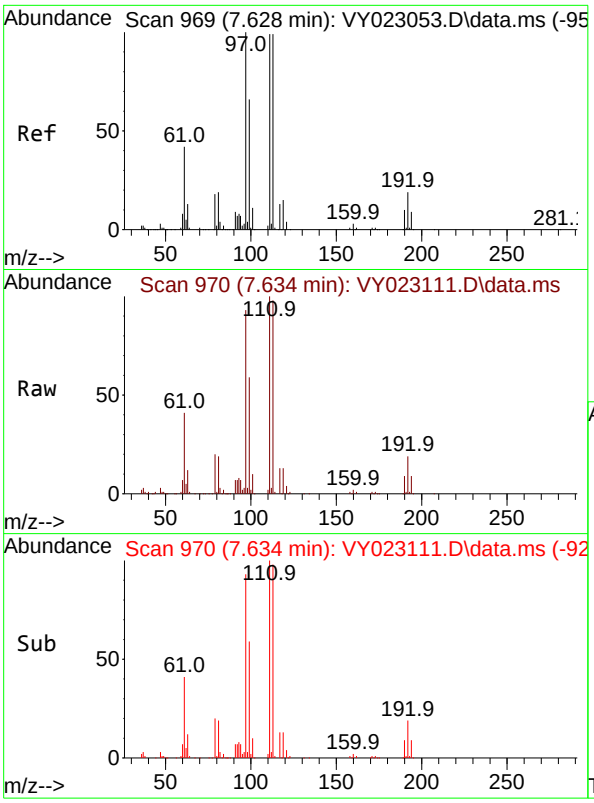


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:114 Resp: 696916

Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	38.4
88	14.4	0.0	30.0



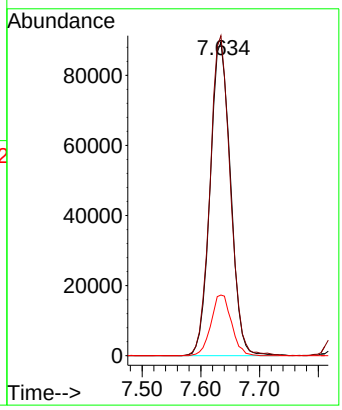


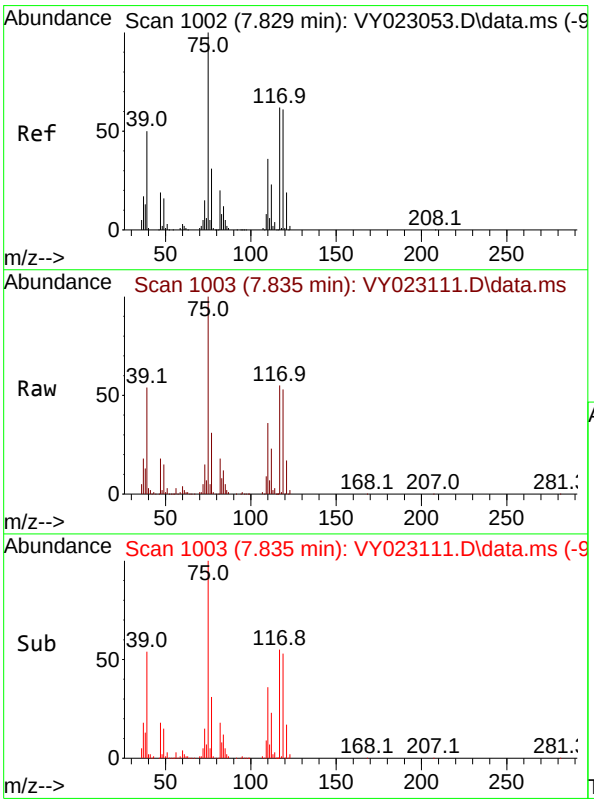
#35
Dibromofluoromethane
Concen: 51.722 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 215688

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.1	121.7
192	19.4	16.2	24.4

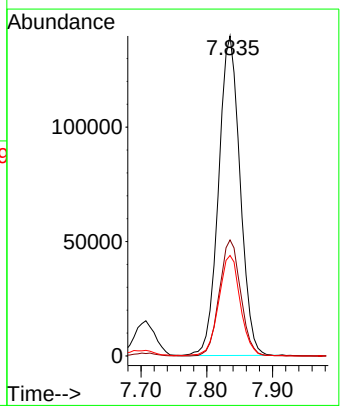


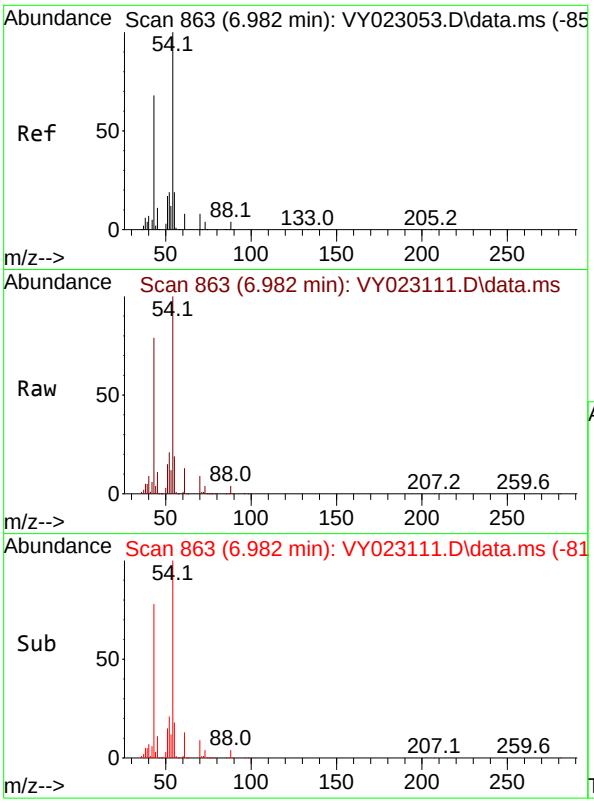


#36
1,1-Dichloropropene
Concen: 51.245 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 317586

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.4
77	31.8	24.6	37.0



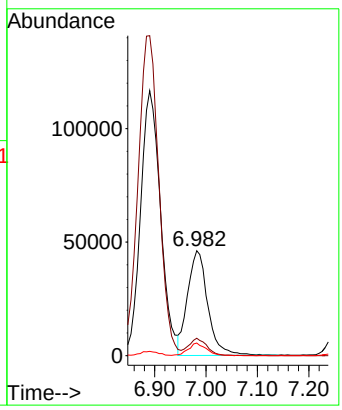


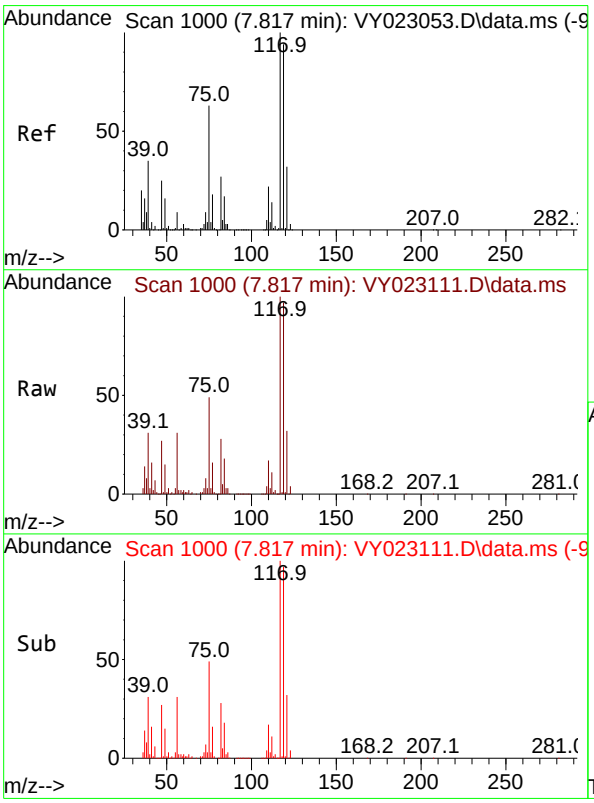
#37
Ethyl Acetate
Concen: 48.201 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 125483

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.9	17.9
70	10.8	8.8	13.2

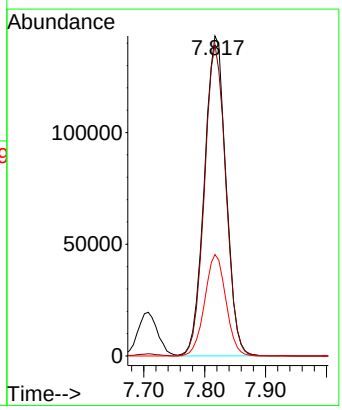


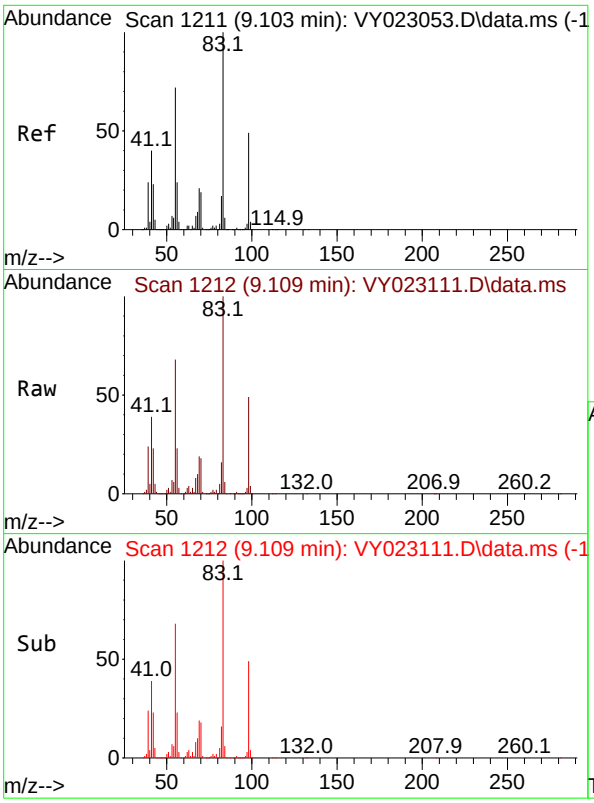


#38
Carbon Tetrachloride
Concen: 52.395 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:117 Resp: 352681

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.6	113.4
121	31.7	25.8	38.8



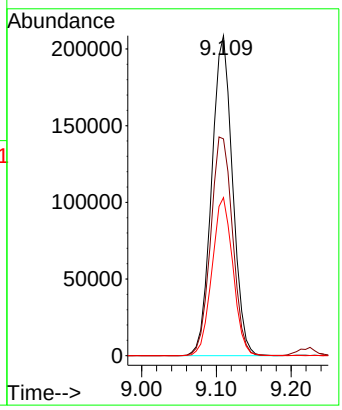


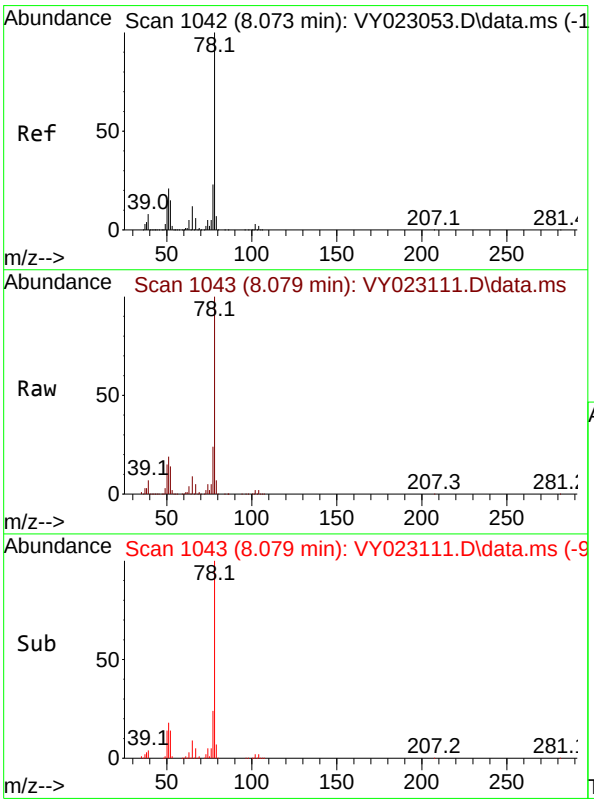
#39
Methylcyclohexane
Concen: 49.756 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 406063

Ion	Ratio	Lower	Upper
83	100		
55	67.7	57.6	86.4
98	49.4	39.2	58.8

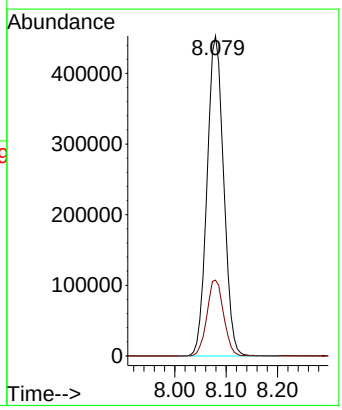


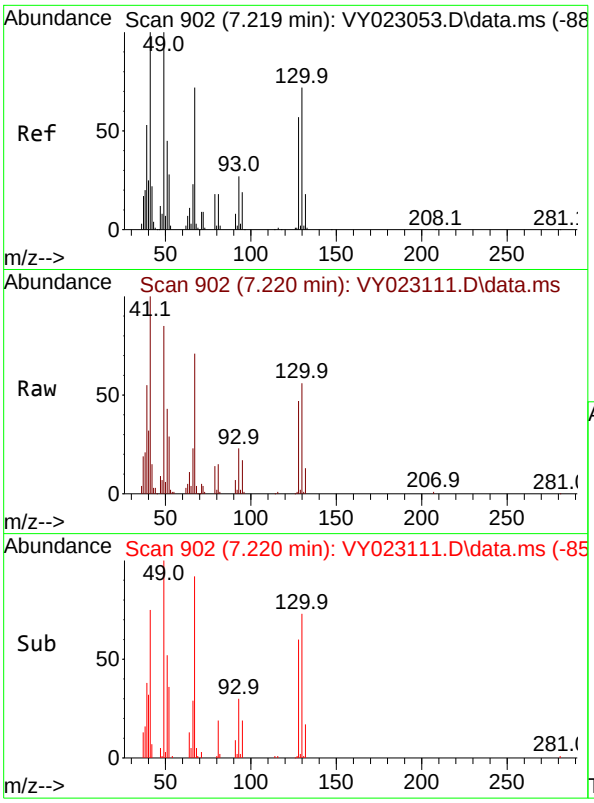


#40
Benzene
Concen: 53.099 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 78 Resp: 1014264

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0



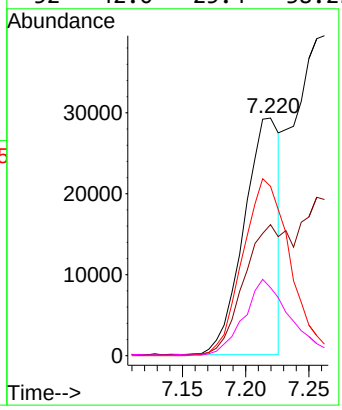


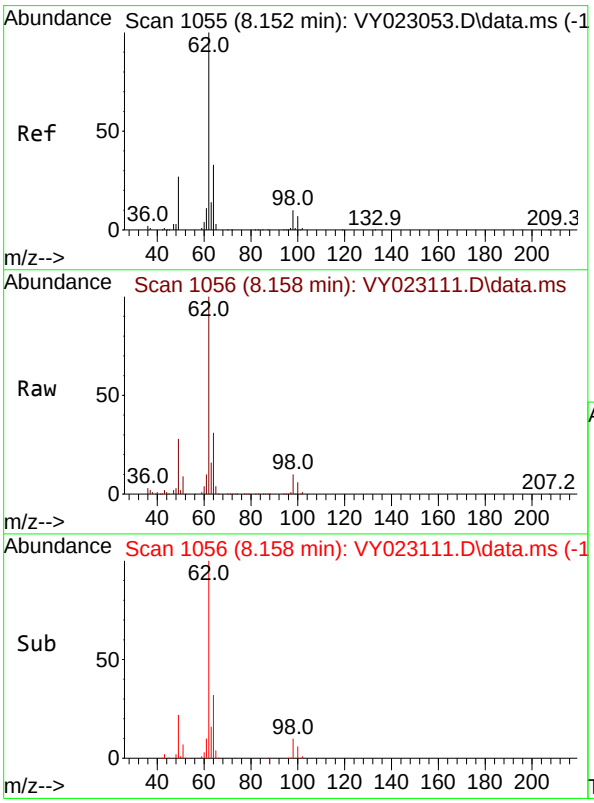
#41
Methacrylonitrile
Concen: 37.881 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 56915

Ion	Ratio	Lower	Upper
41	100		
39	73.3	43.4	65.2#
67	102.6	63.6	95.4#
52	42.0	25.4	38.2#

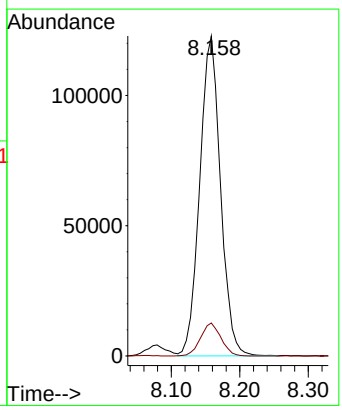


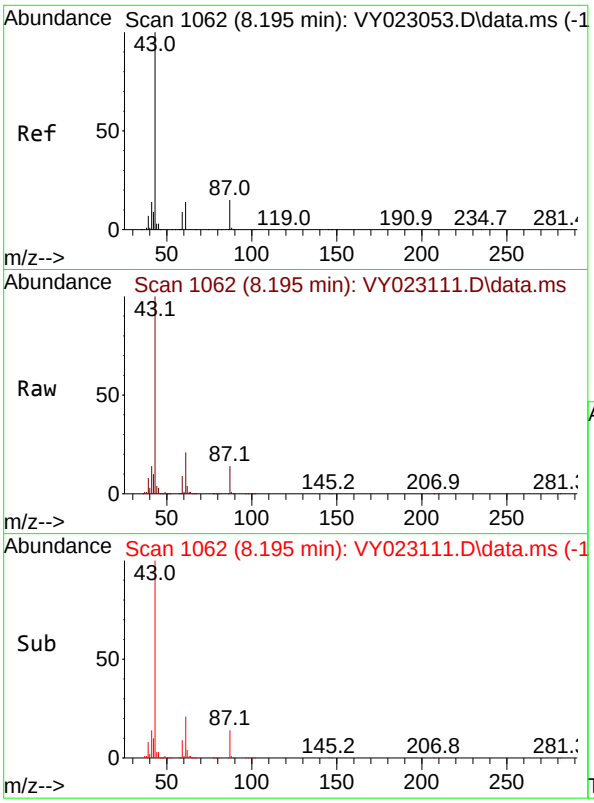


#42
1,2-Dichloroethane
Concen: 52.122 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 62 Resp: 258937

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



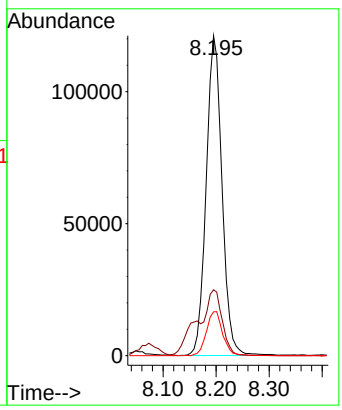


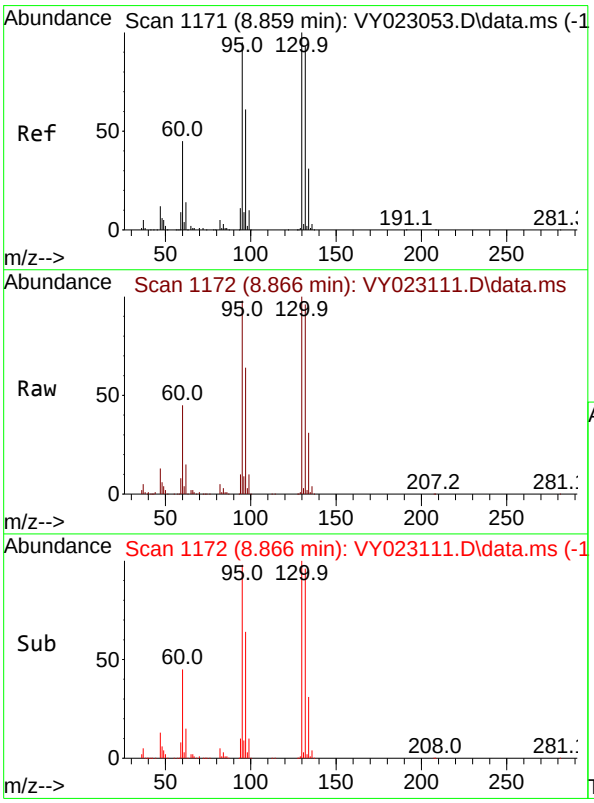
#43
Isopropyl Acetate
Concen: 47.653 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 250740

Ion	Ratio	Lower	Upper
43	100		
61	31.8	16.4	24.6#
87	14.3	11.8	17.6

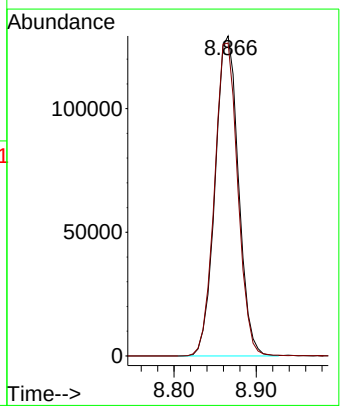


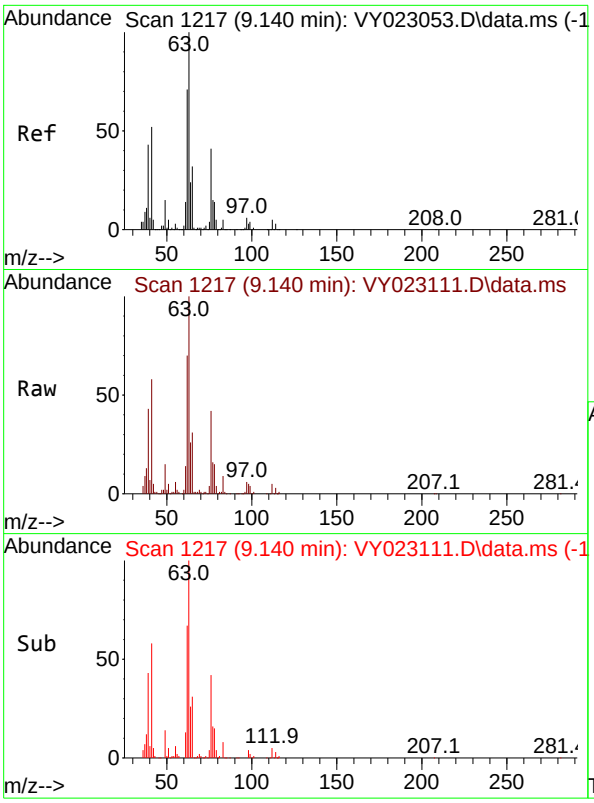


#44
Trichloroethene
Concen: 51.680 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:130 Resp: 255103

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	190.2



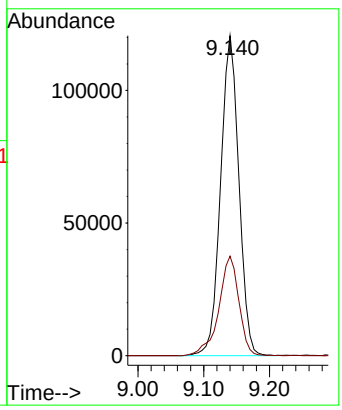


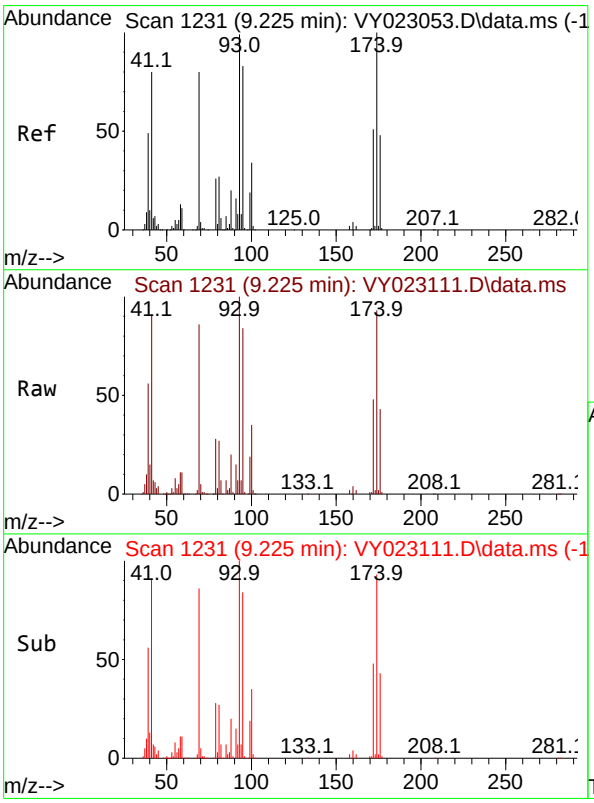
#45
1,2-Dichloropropane
Concen: 53.160 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 233639

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.3	37.9

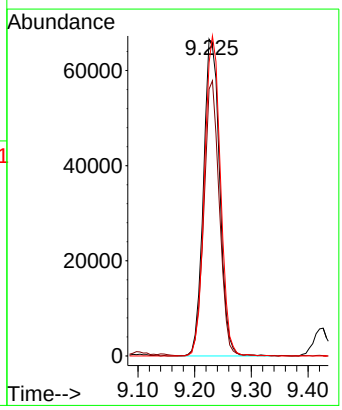


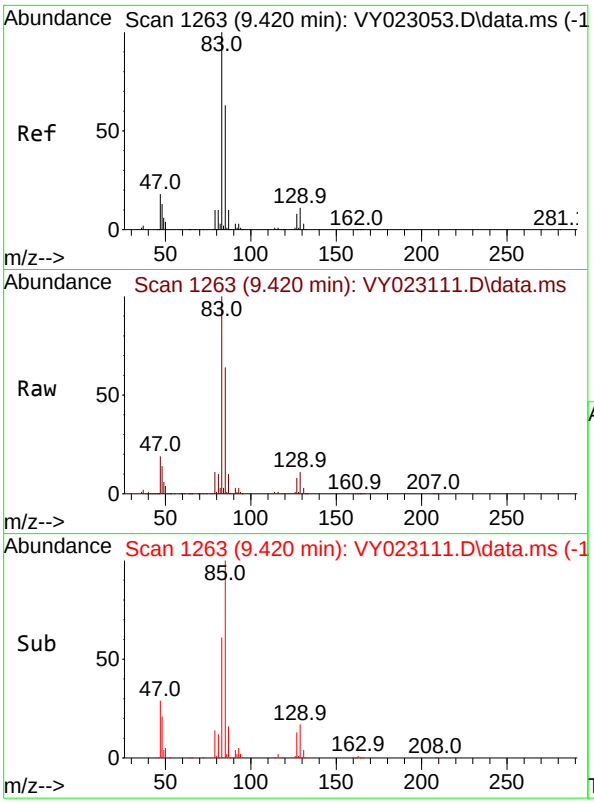


#46
Dibromomethane
Concen: 52.280 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 93 Resp: 131880

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.5	99.7
174	99.7	81.8	122.8



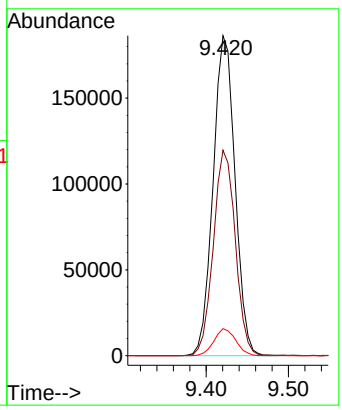


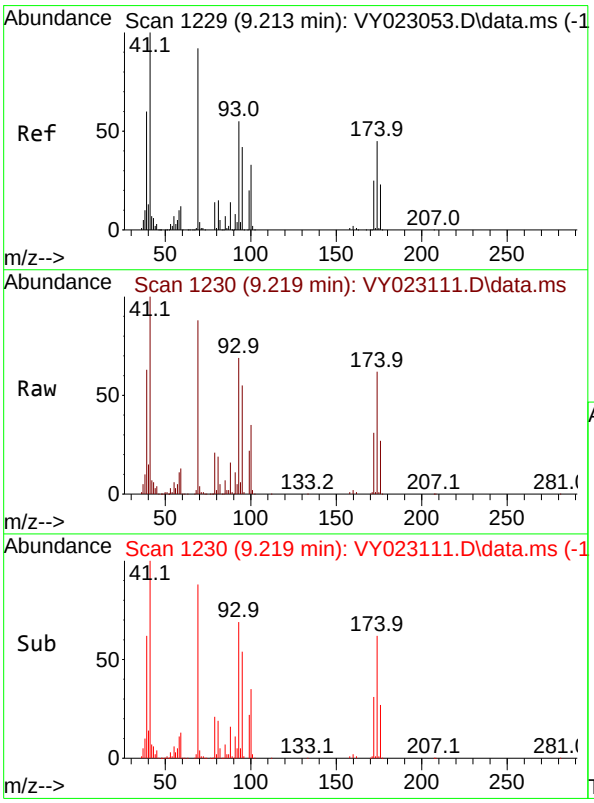
#47
Bromodichloromethane
Concen: 53.260 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 345709

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.2	75.4
127	8.4	6.6	10.0

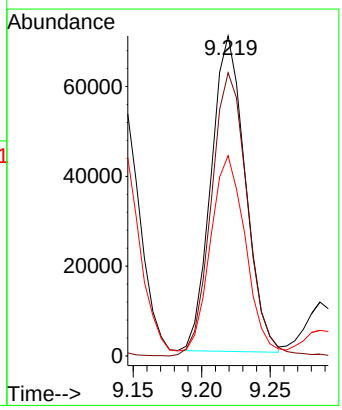


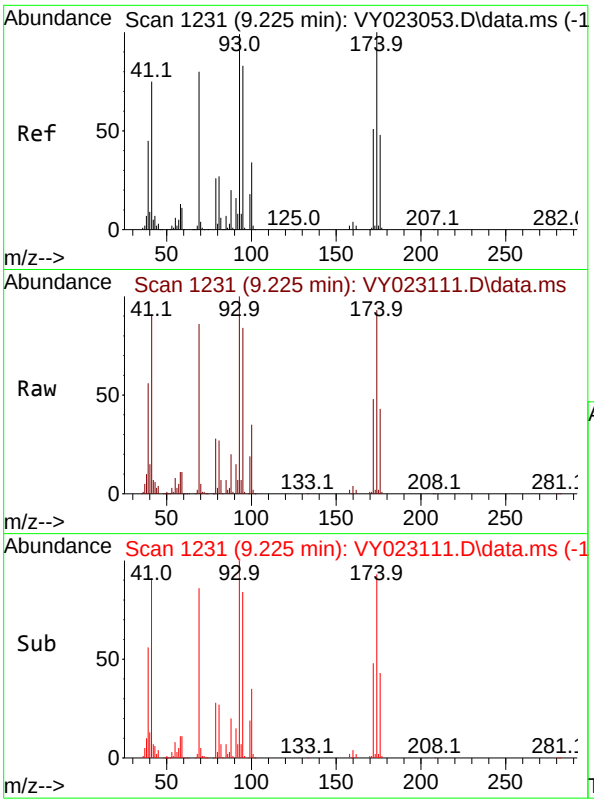


#48
Methyl methacrylate
Concen: 48.387 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 41 Resp: 121834

Ion	Ratio	Lower	Upper
41	100		
69	94.8	73.2	109.8
39	62.6	47.0	70.4



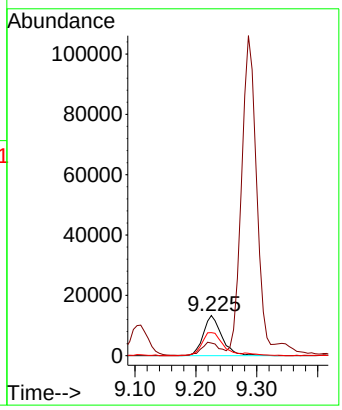


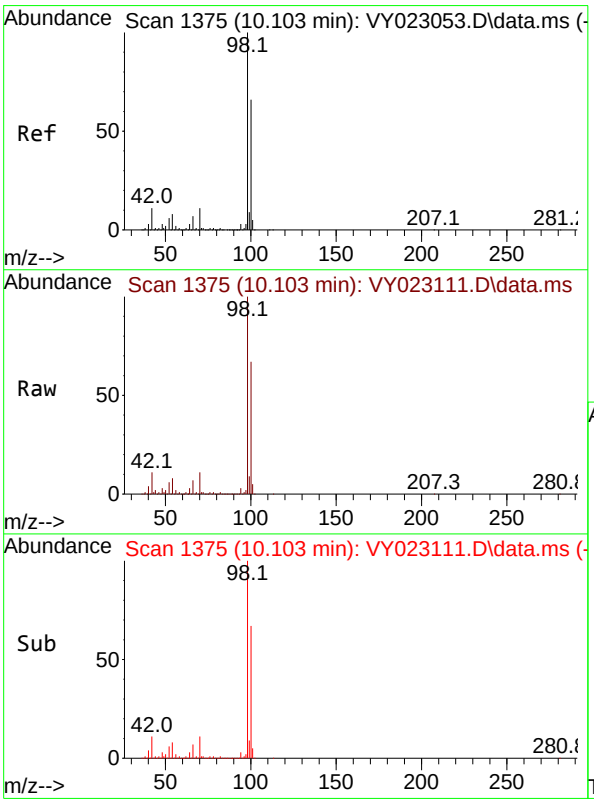
#49
1,4-Dioxane
Concen: 949.382 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28081

Ion	Ratio	Lower	Upper
88	100		
43	31.4	24.3	36.5
58	64.6	55.4	83.0

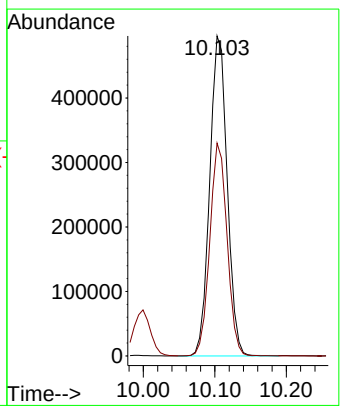


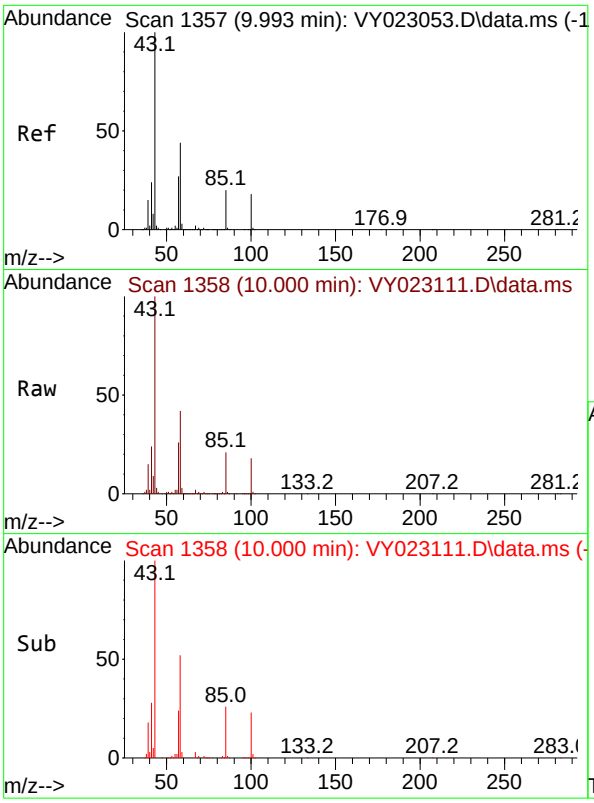


#50
Toluene-d8
Concen: 51.612 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 98 Resp: 840812

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.3	78.5



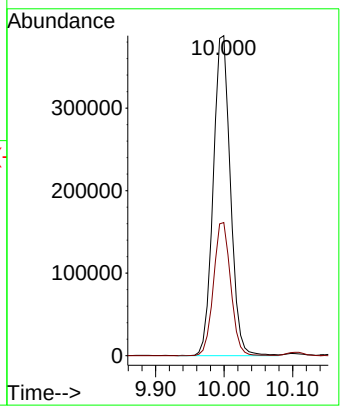


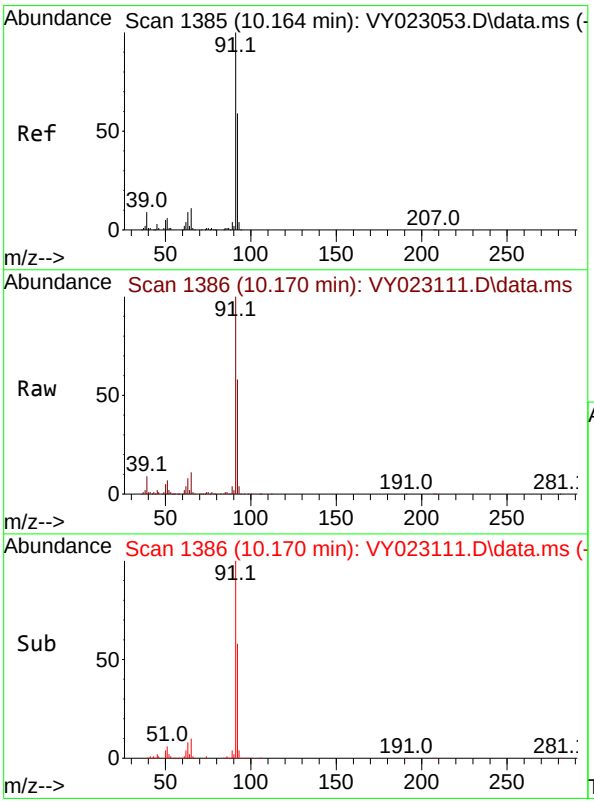
#51
4-Methyl-2-Pentanone
Concen: 248.424 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 674267

Ion	Ratio	Lower	Upper
43	100		
58	41.7	33.5	50.3

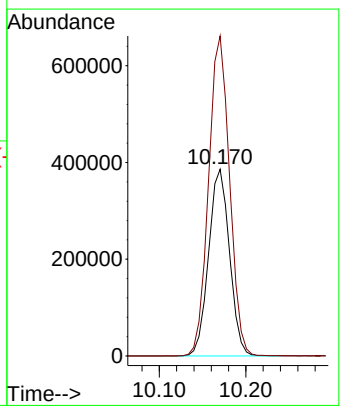


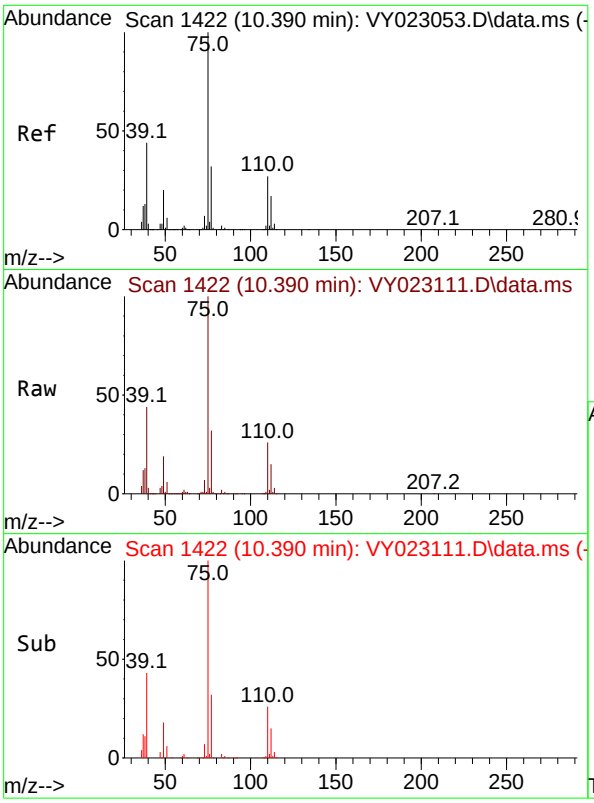


#52
Toluene
Concen: 53.288 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 92 Resp: 646468

Ion	Ratio	Lower	Upper
92	100		
91	172.4	136.4	204.6



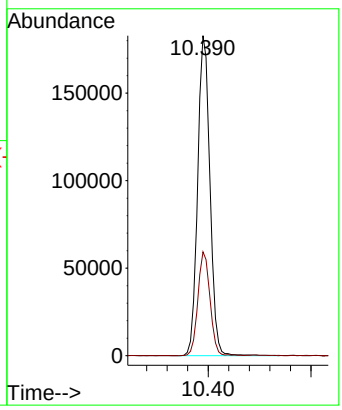


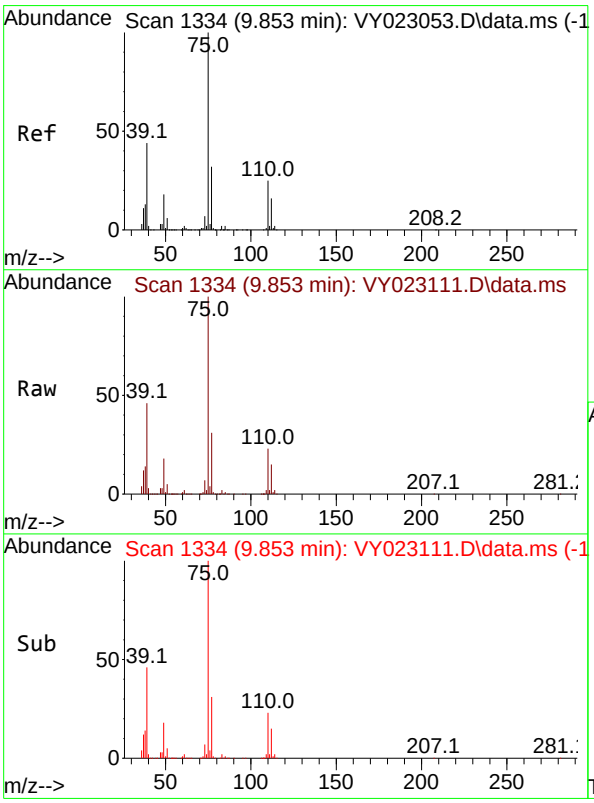
#53
t-1,3-Dichloropropene
Concen: 51.512 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 302783

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5

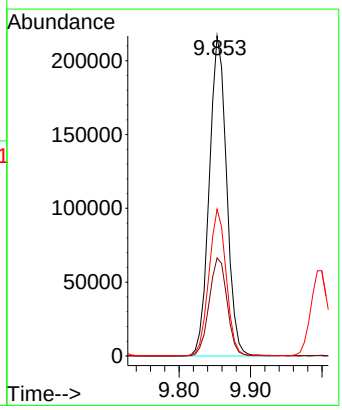


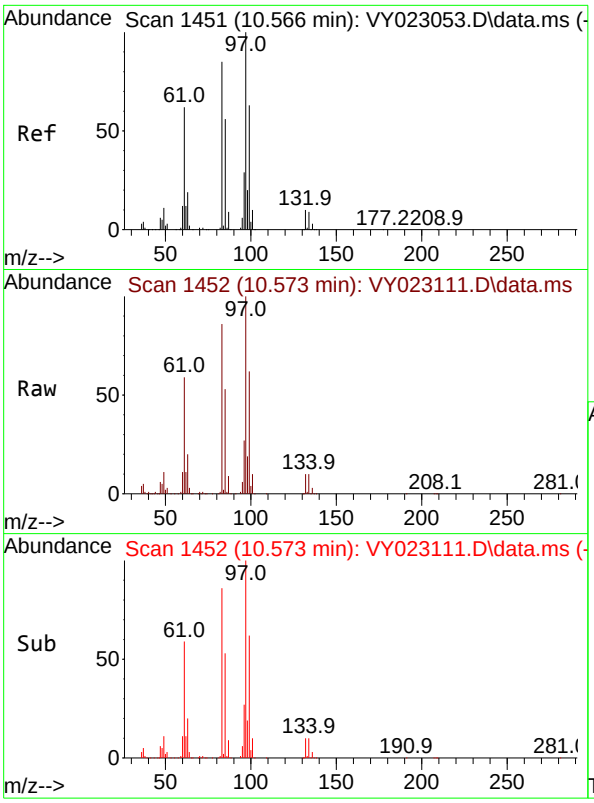


#54
cis-1,3-Dichloropropene
Concen: 52.418 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 364333

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	45.8	35.6	53.4



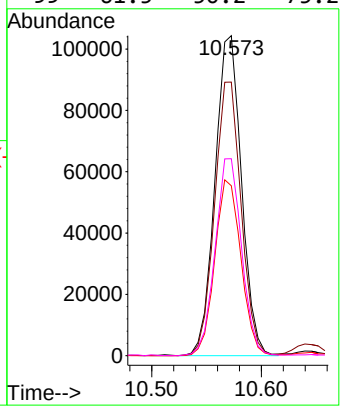


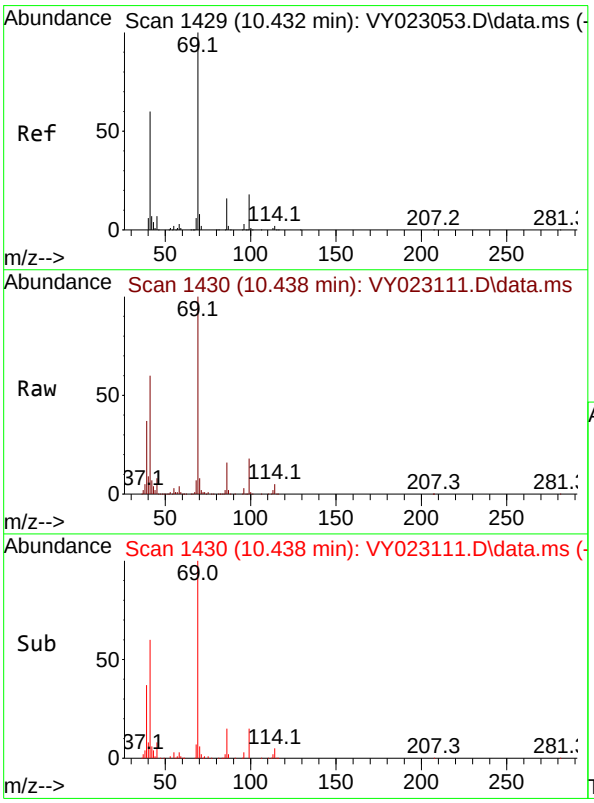
#55
1,1,2-Trichloroethane
Concen: 51.936 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 175309

Ion	Ratio	Lower	Upper
97	100		
83	85.5	67.7	101.5
85	53.1	44.5	66.7
99	61.5	50.2	75.2

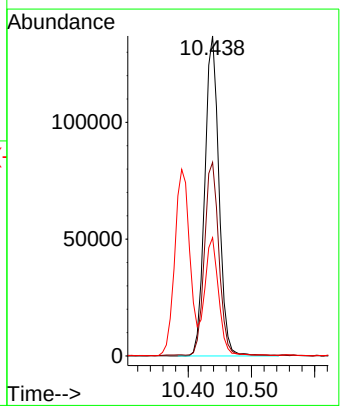


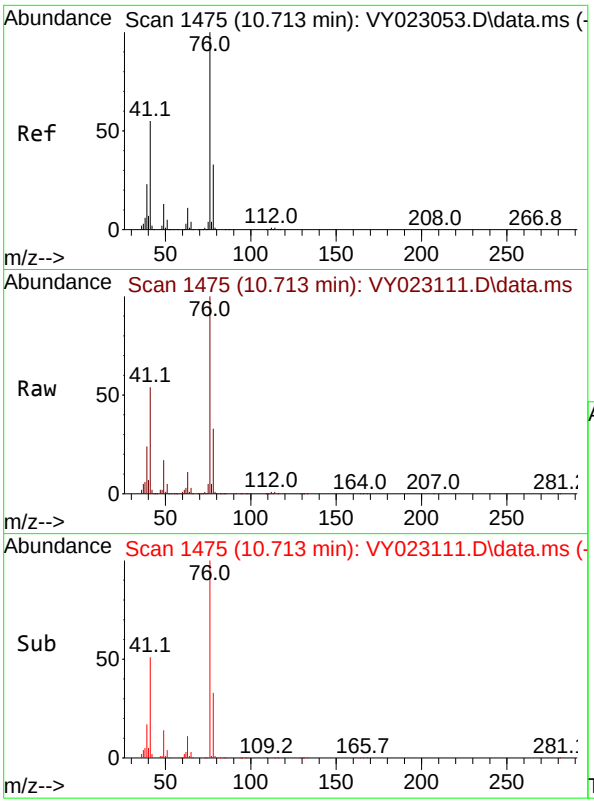


#56
Ethyl methacrylate
Concen: 49.477 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 69 Resp: 213704

Ion	Ratio	Lower	Upper
69	100		
41	61.2	48.6	72.8
39	35.7	27.0	40.4



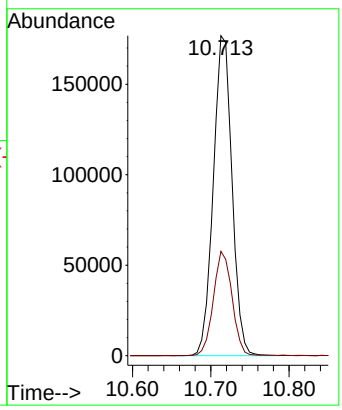


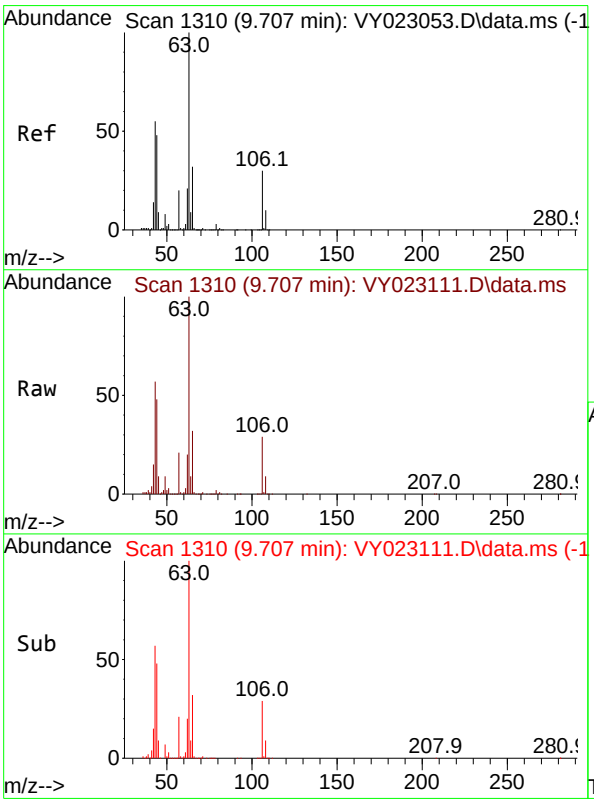
#57
1,3-Dichloropropane
Concen: 51.352 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 293968

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

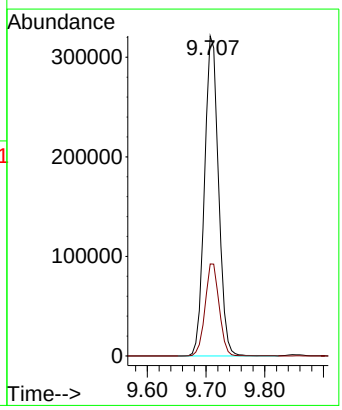


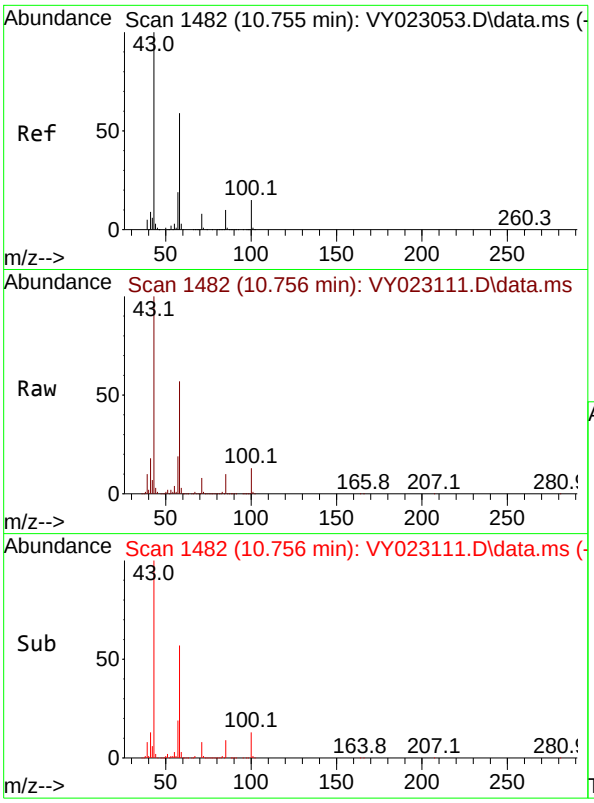


#58
2-Chloroethyl Vinyl ether
Concen: 260.887 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 63 Resp: 531531

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8



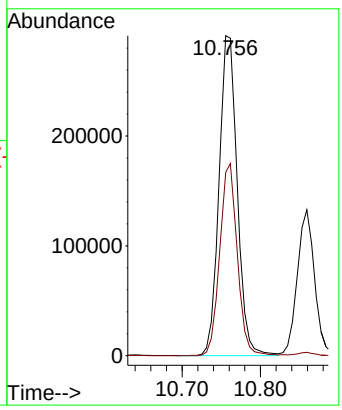


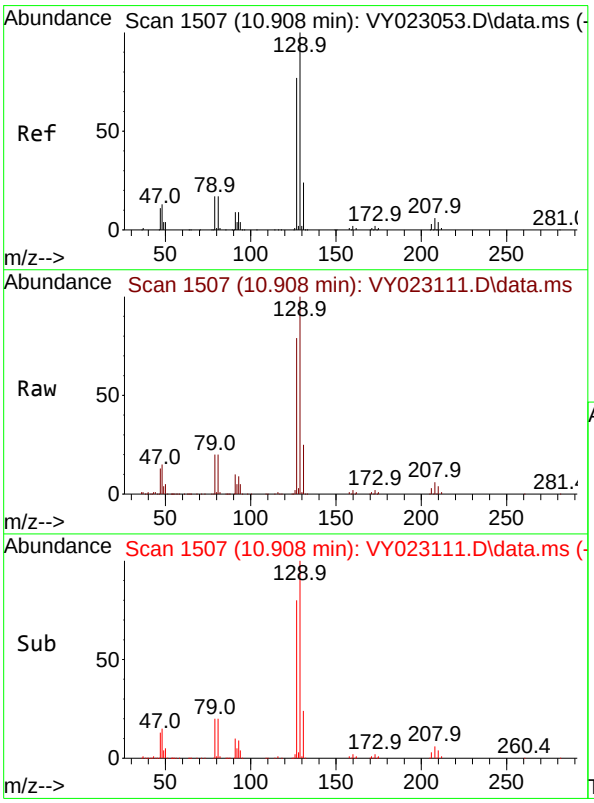
#59
2-Hexanone
Concen: 255.032 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 471343

Ion	Ratio	Lower	Upper
43	100		
58	57.9	29.5	88.5

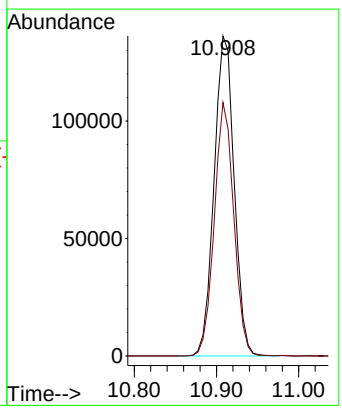


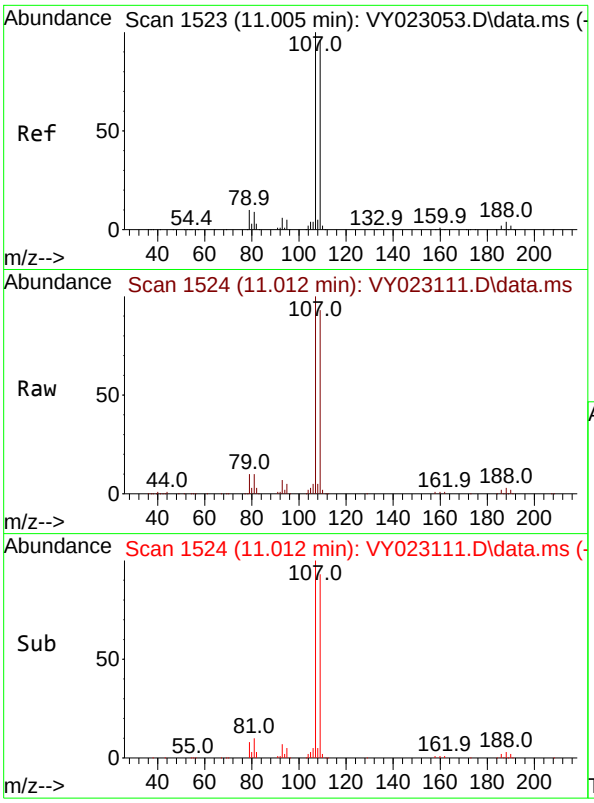


#60
Dibromochloromethane
Concen: 51.895 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:129 Resp: 231138

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5



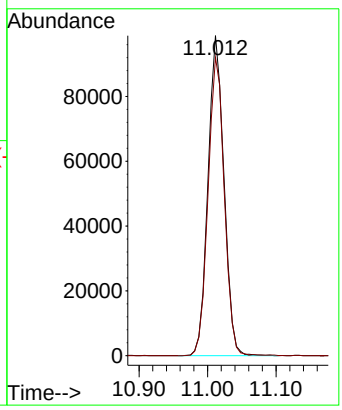


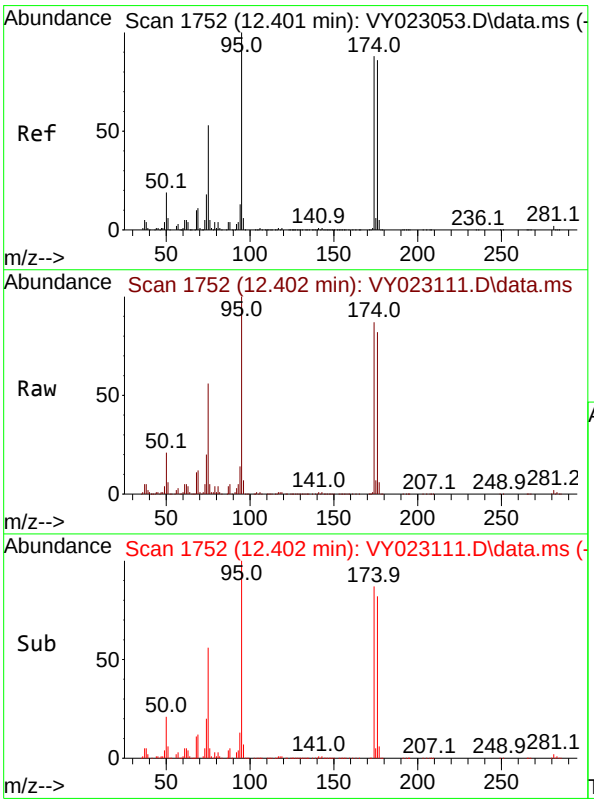
#61
1,2-Dibromoethane
Concen: 50.454 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 160069

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.6	113.4

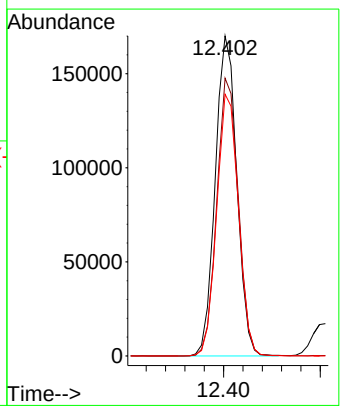


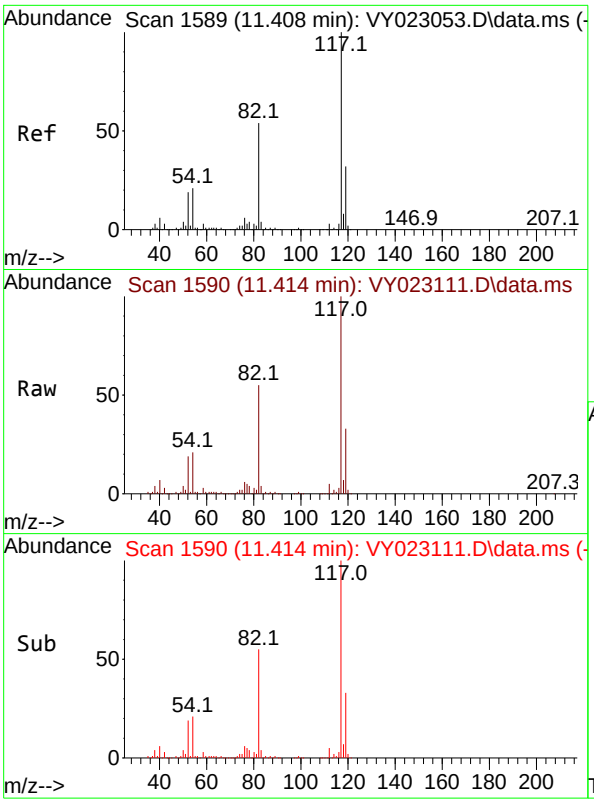


#62
4-Bromofluorobenzene
Concen: 50.079 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 95 Resp: 262368

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	171.6
176	82.7	0.0	167.6



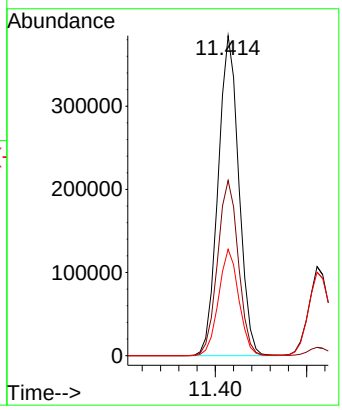


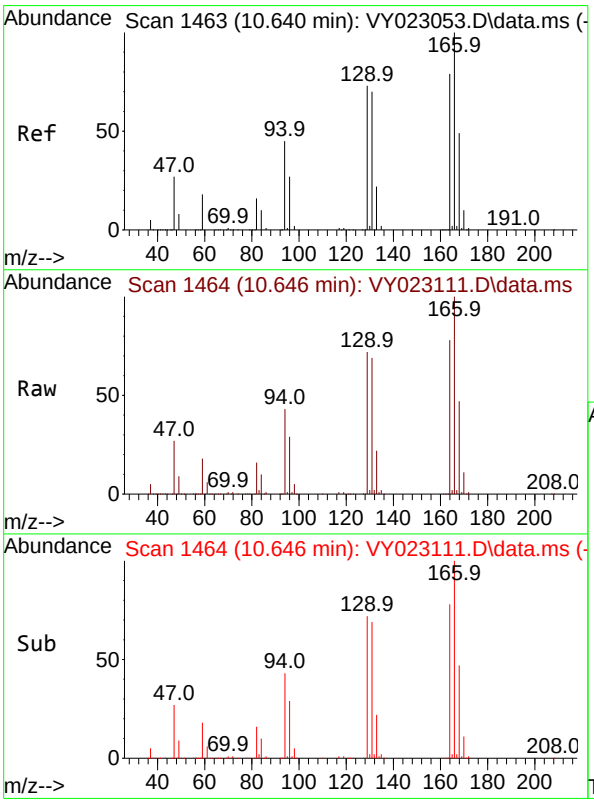
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 607348

Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.4	65.0
119	33.3	25.6	38.4

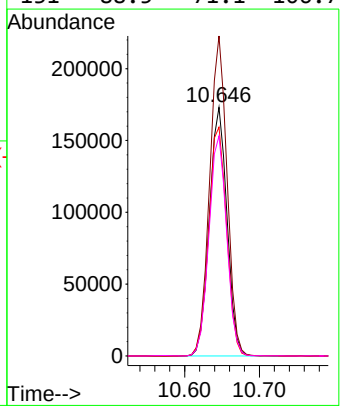


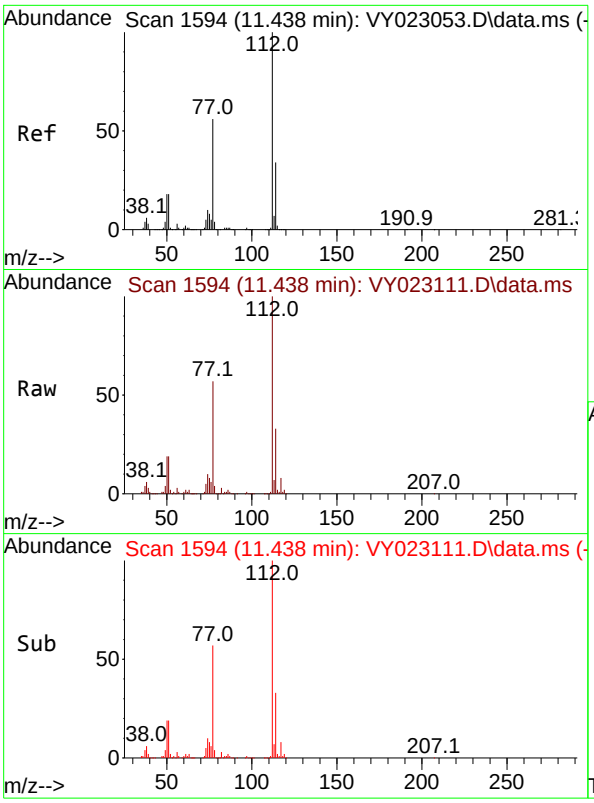


#64
Tetrachloroethene
Concen: 52.484 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:164 Resp: 284630

Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.1	151.7
129	92.0	74.0	111.0
131	88.5	71.1	106.7



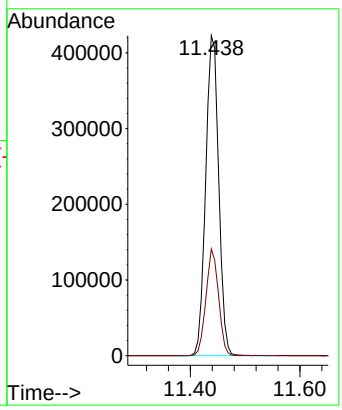


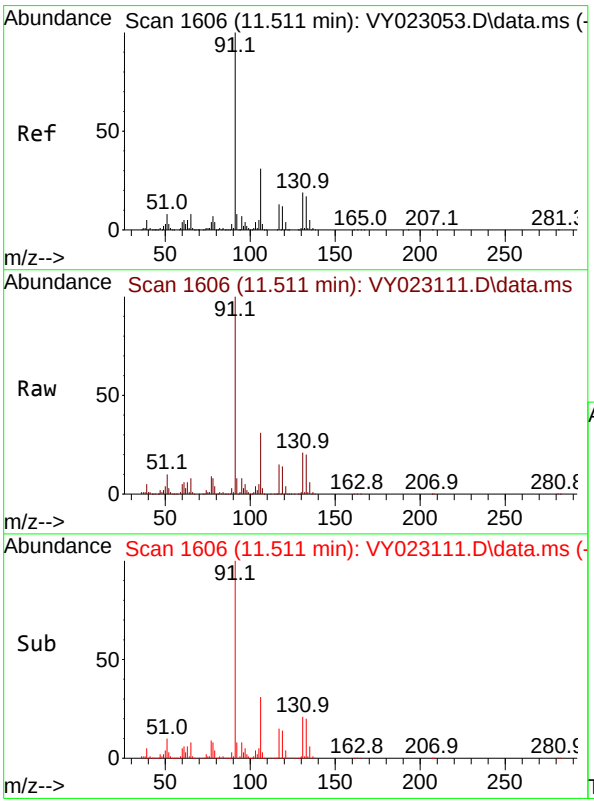
#65
Chlorobenzene
Concen: 52.949 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 693667

Ion	Ratio	Lower	Upper
112	100		
114	33.3	27.0	40.4

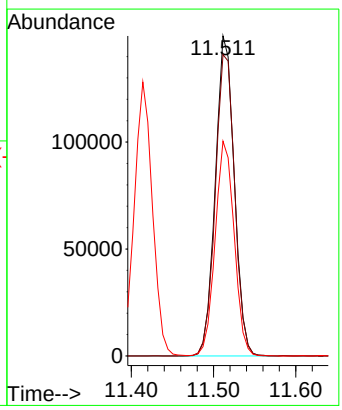


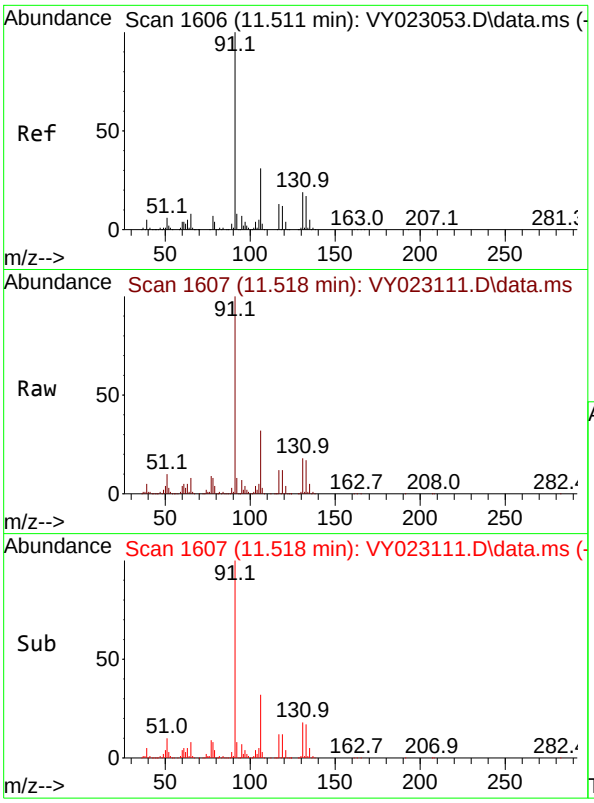


#66
1,1,1,2-Tetrachloroethane
Concen: 53.813 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:131 Resp: 239263

Ion	Ratio	Lower	Upper
131	100		
133	96.8	46.9	140.6
119	67.6	33.2	99.6



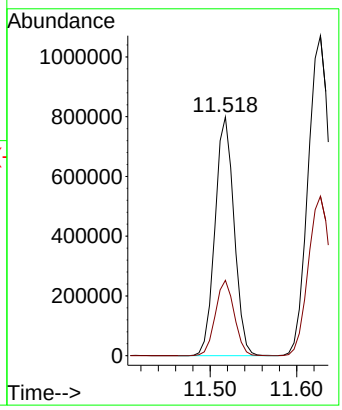


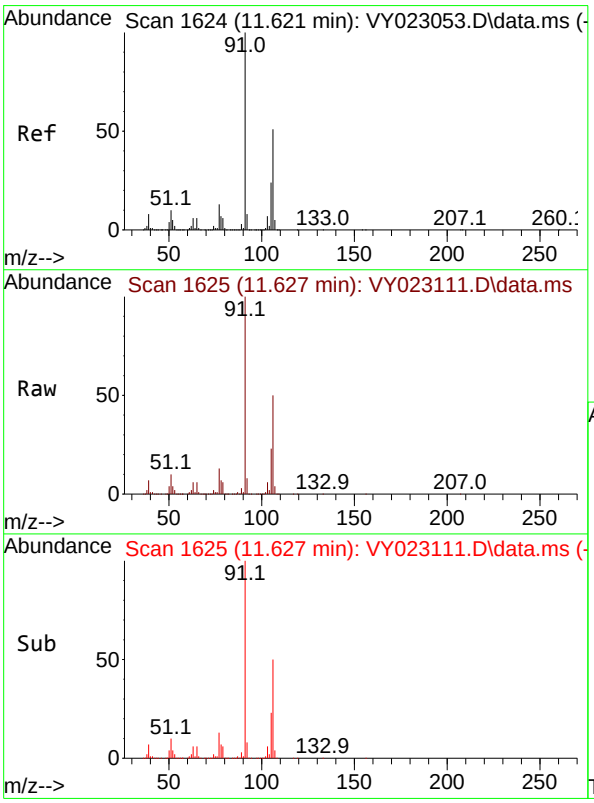
#67
Ethyl Benzene
Concen: 54.111 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1219913

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.0	37.4

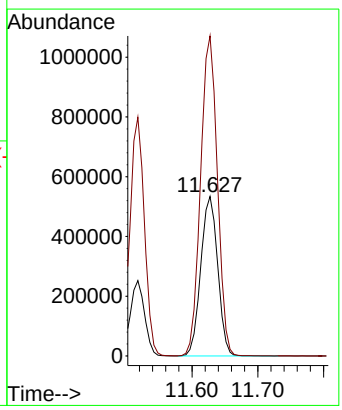


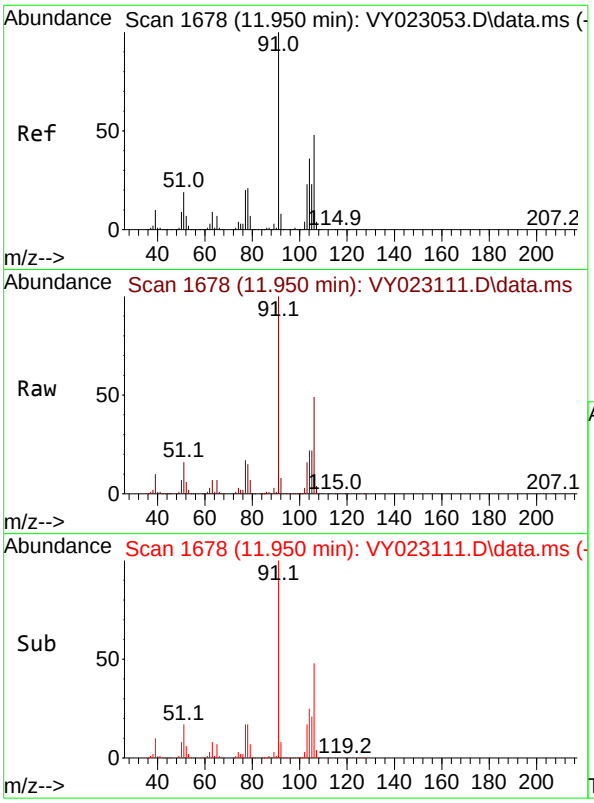


#68
m/p-Xylenes
Concen: 108.283 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:106 Resp: 953446

Ion	Ratio	Lower	Upper
106	100		
91	199.4	158.6	238.0



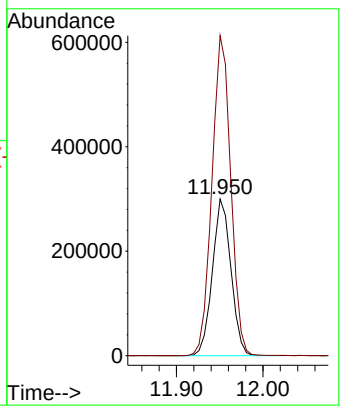


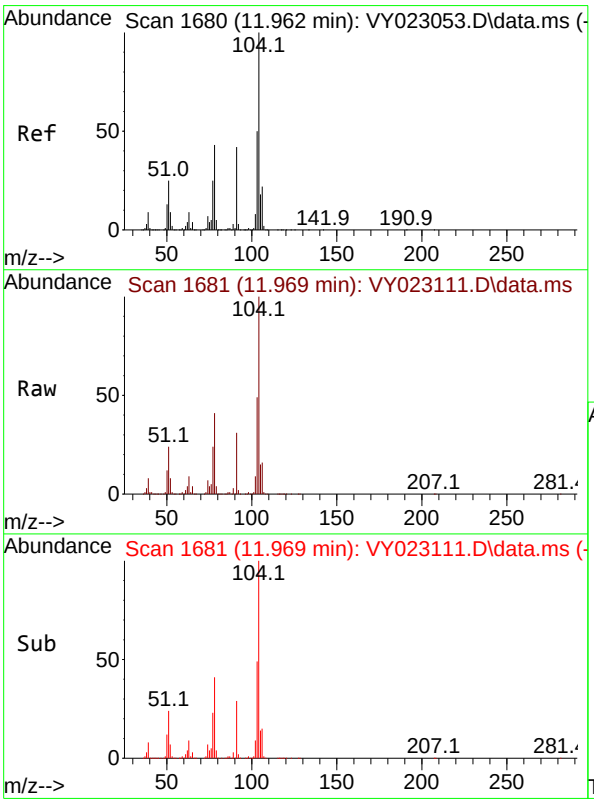
#69
o-Xylene
Concen: 54.193 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 446920

Ion	Ratio	Lower	Upper
106	100		
91	206.9	103.2	309.4

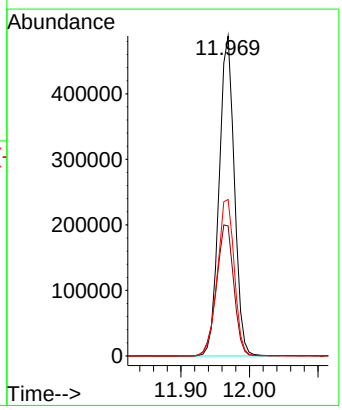


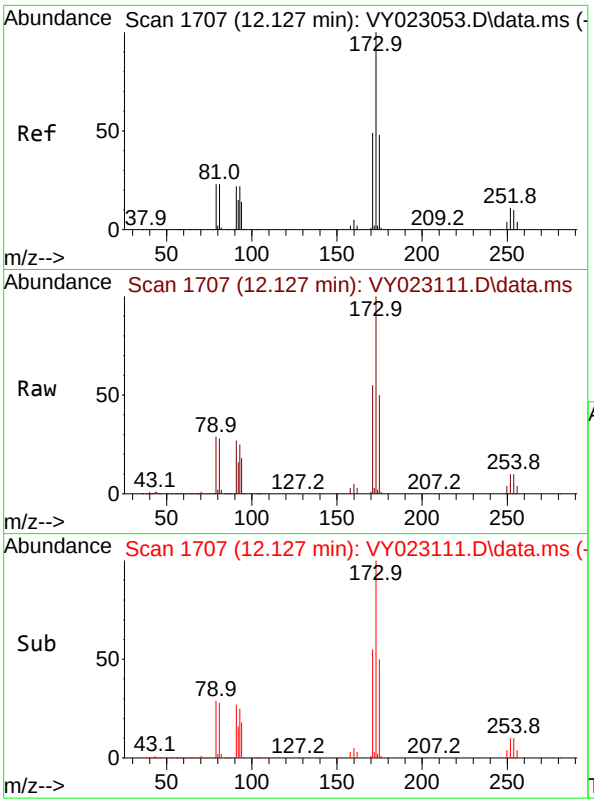


#70
Styrene
Concen: 55.770 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:104 Resp: 752144

Ion	Ratio	Lower	Upper
104	100		
78	46.7	38.5	57.7
103	54.3	43.7	65.5



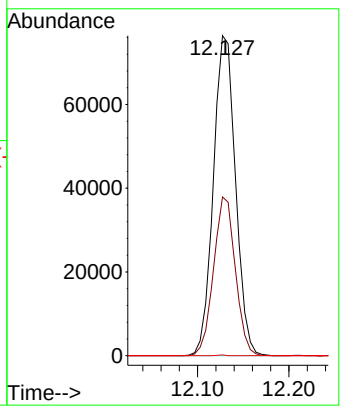


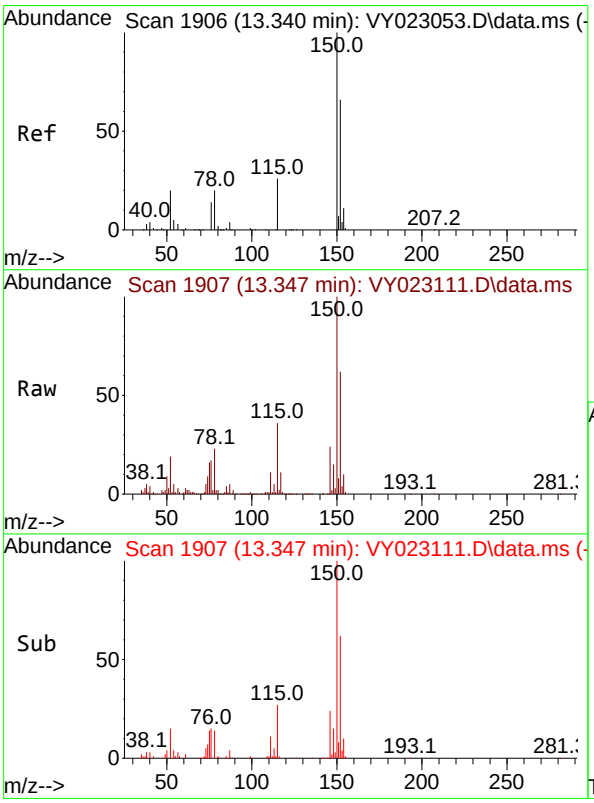
#71
Bromoform
Concen: 49.544 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 128745

Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.9	71.7
254	0.1	0.1	0.1#

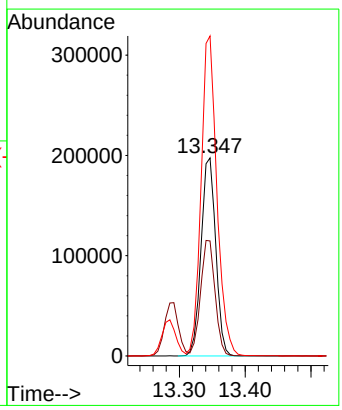


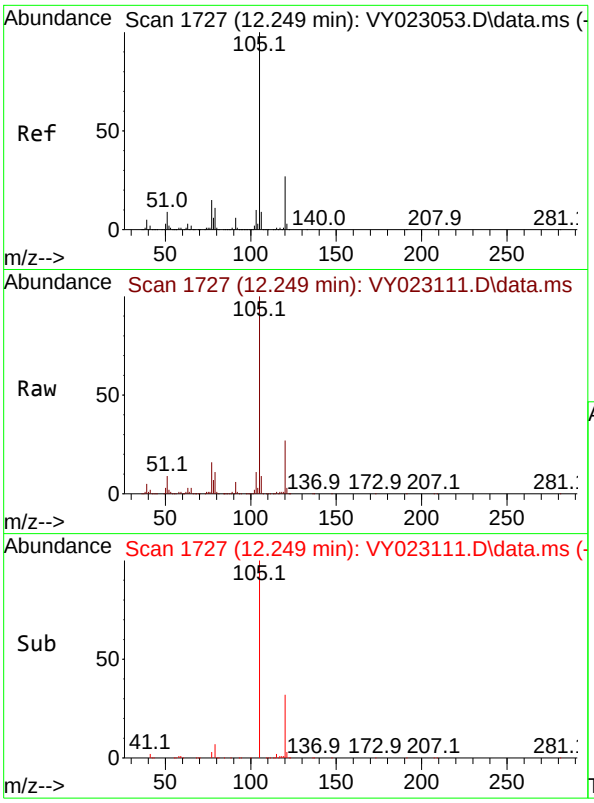


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:152 Resp: 306948

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.2	84.6
150	174.0	0.0	348.0



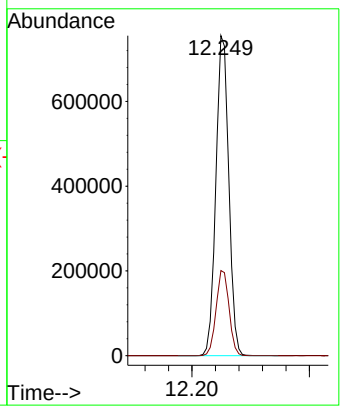


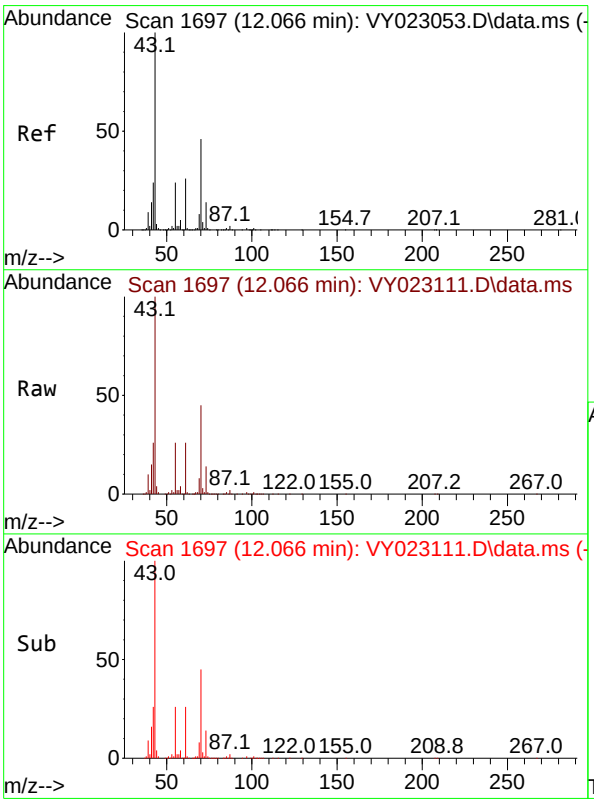
#73
Isopropylbenzene
Concen: 52.906 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1146162

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2

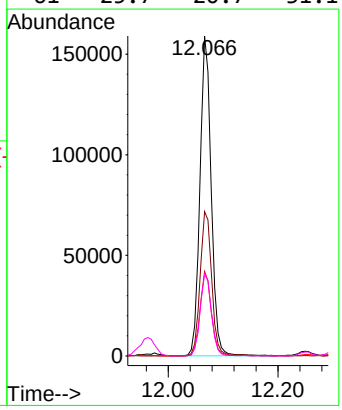


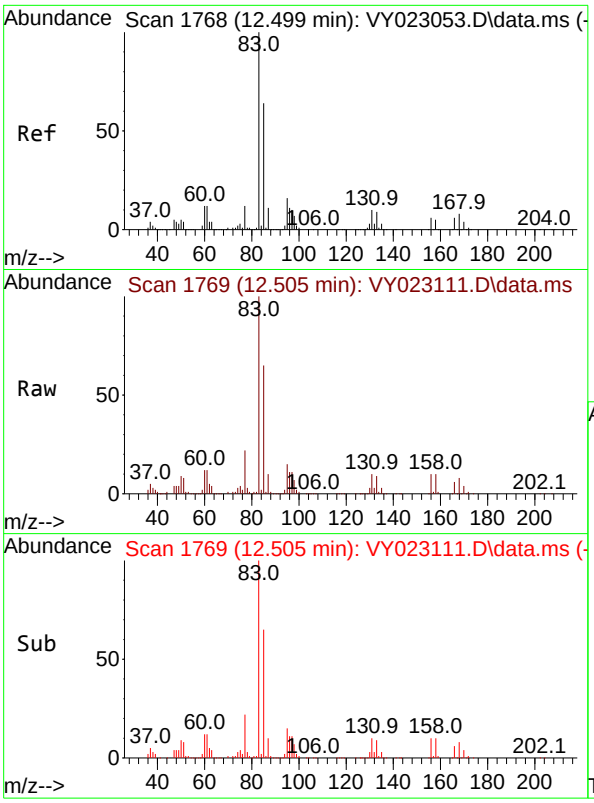


#74
N-amyl acetate
Concen: 49.257 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 43 Resp: 226300

Ion	Ratio	Lower	Upper
43	100		
70	46.7	37.5	56.3
55	26.9	20.7	31.1
61	25.7	20.7	31.1



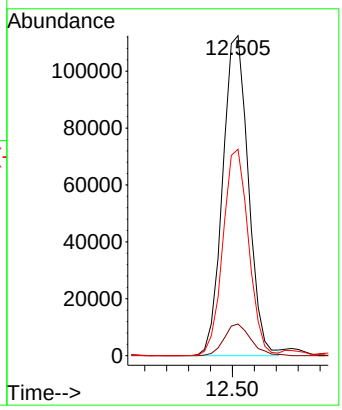


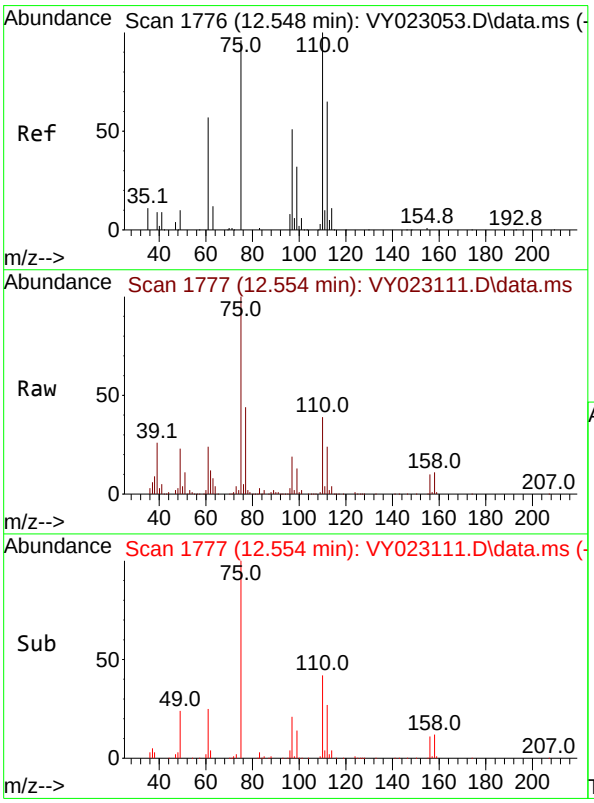
#75
1,1,2,2-Tetrachloroethane
Concen: 49.405 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 182753

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.4	31.8	95.3

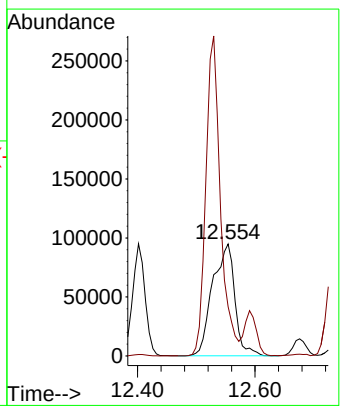


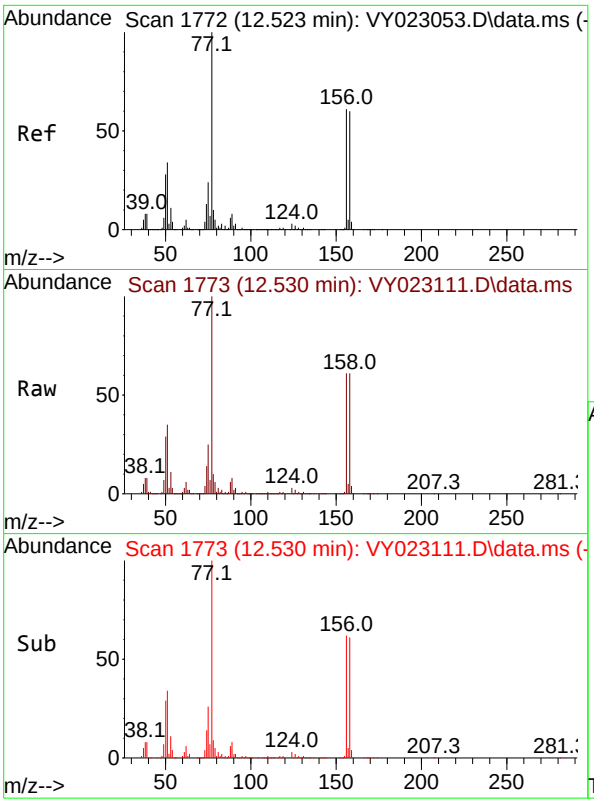


#76
1,2,3-Trichloropropane
Concen: 84.220 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 249491

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



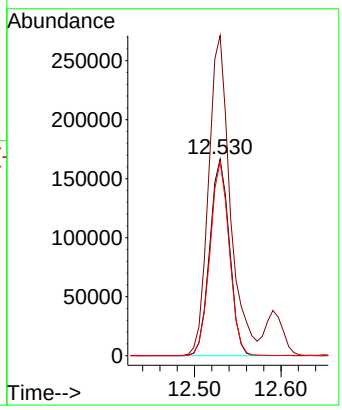


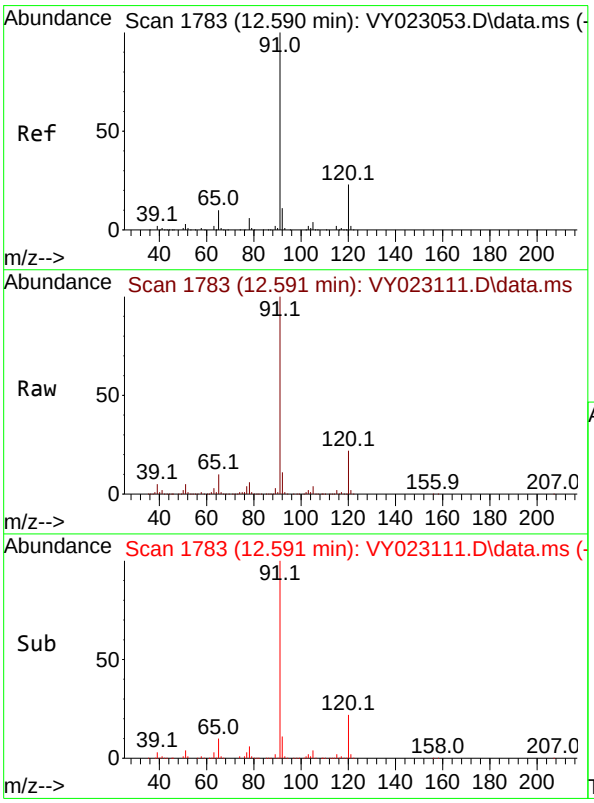
#77
Bromobenzene
Concen: 50.833 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 262726

Ion	Ratio	Lower	Upper
156	100		
77	179.1	88.1	264.4
158	96.7	48.0	144.0

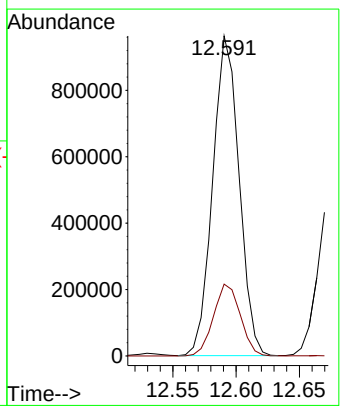


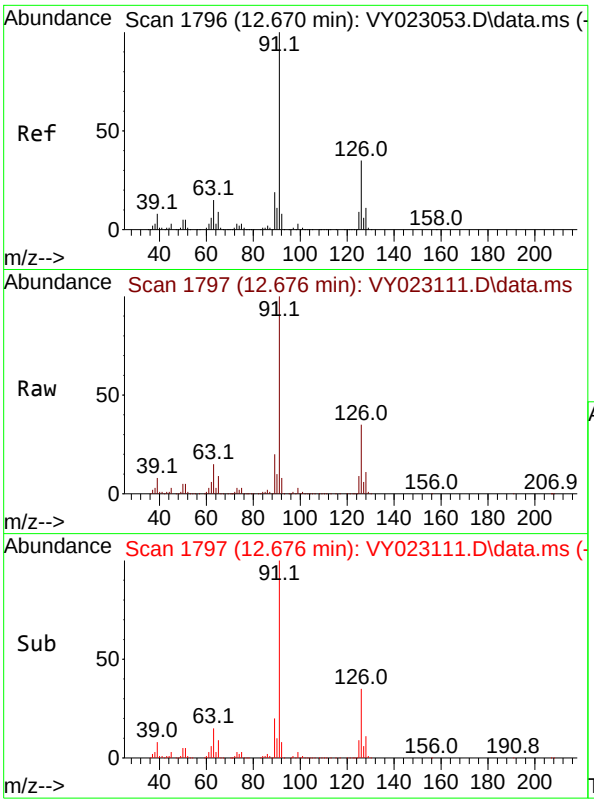


#78
n-propylbenzene
Concen: 54.137 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 1396330

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5



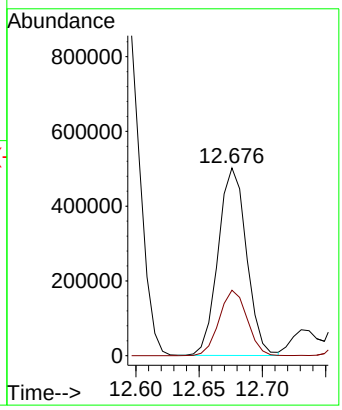


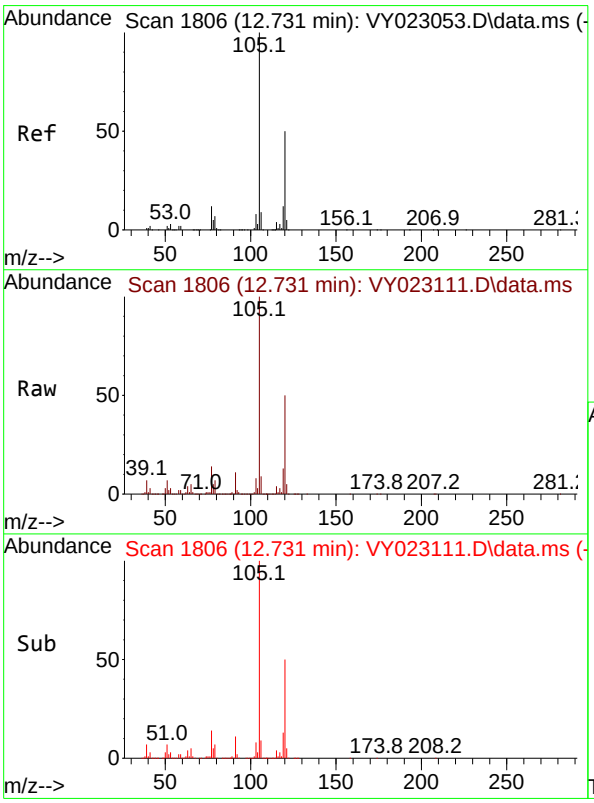
#79
2-Chlorotoluene
Concen: 52.993 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 783125

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.4	52.3

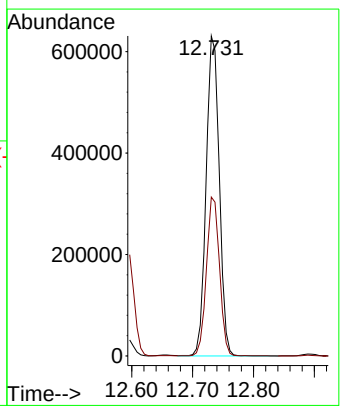


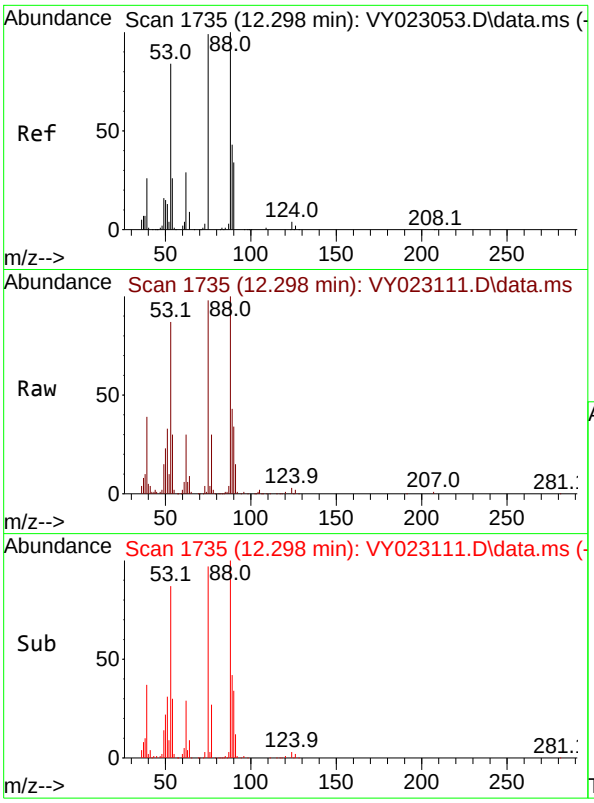


#80
1,3,5-Trimethylbenzene
Concen: 53.915 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:105 Resp: 943980

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



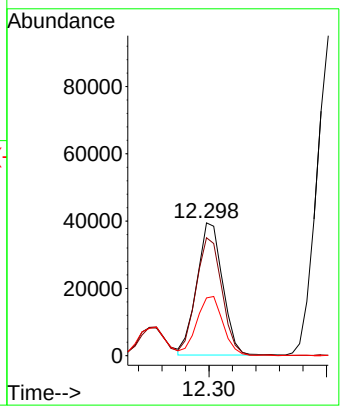


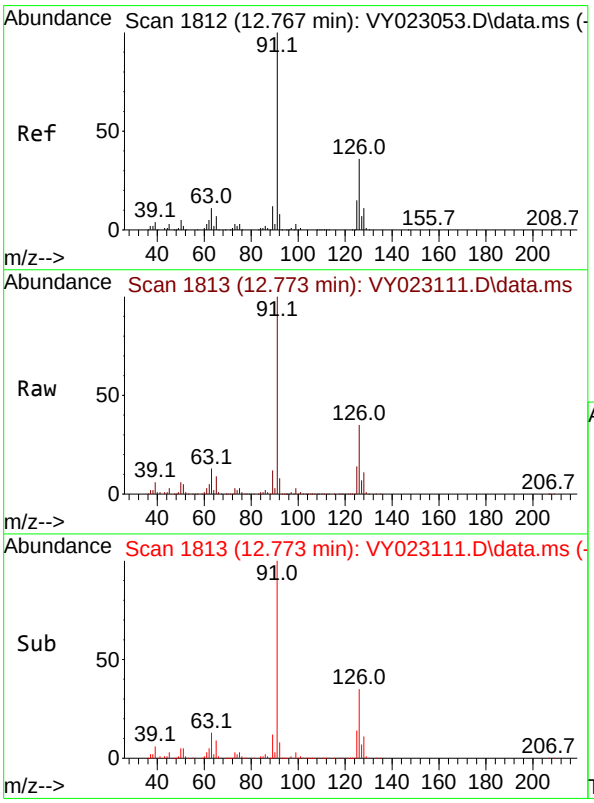
#81
trans-1,4-Dichloro-2-butene
Concen: 48.961 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 59917

Ion	Ratio	Lower	Upper
75	100		
53	89.0	70.8	106.2
89	45.9	38.1	57.1

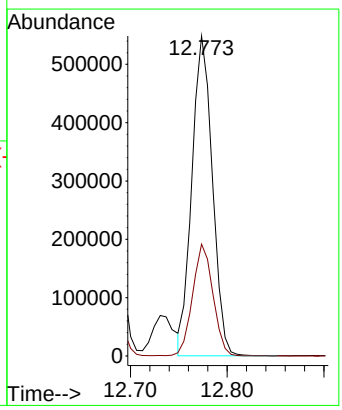


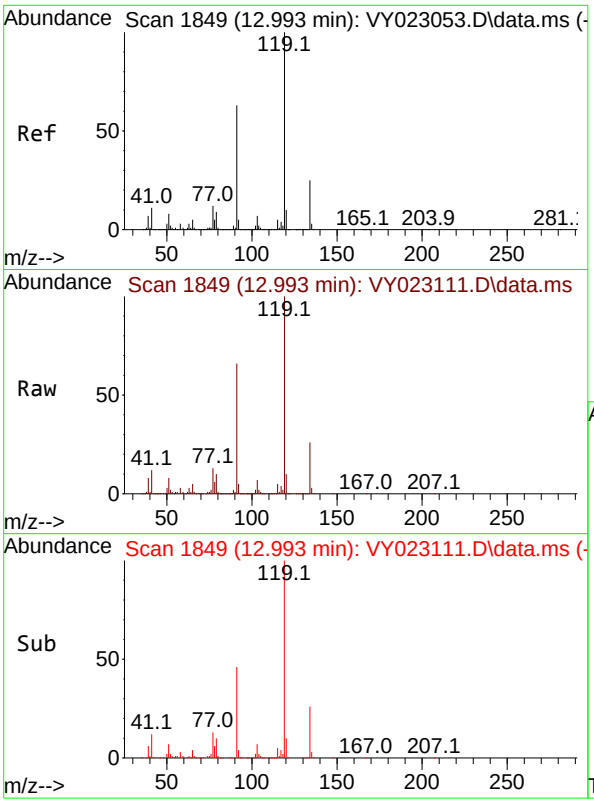


#82
4-Chlorotoluene
Concen: 52.611 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 91 Resp: 806542

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0



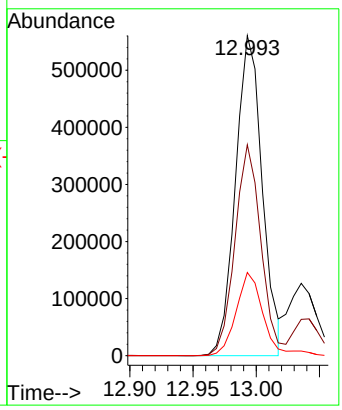


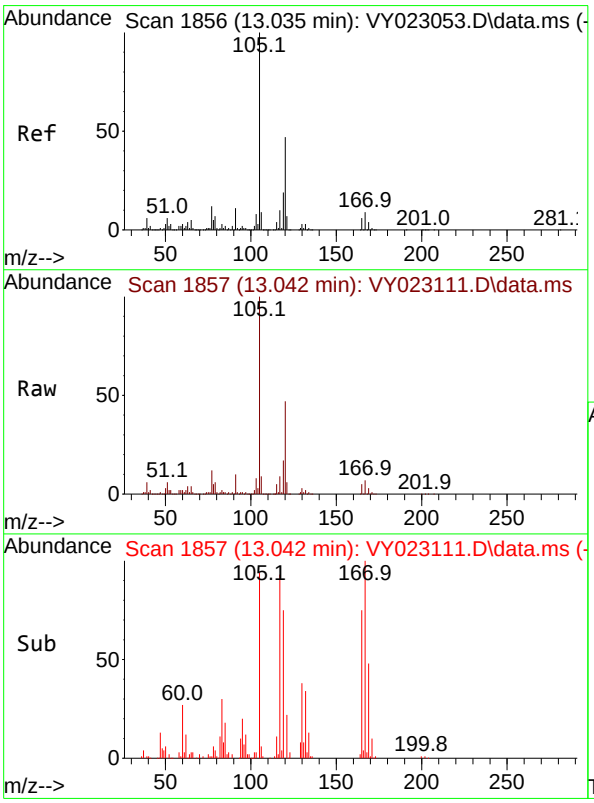
#83
tert-Butylbenzene
Concen: 52.171 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 825002

Ion	Ratio	Lower	Upper
119	100		
91	64.4	31.6	94.8
134	26.5	12.9	38.7

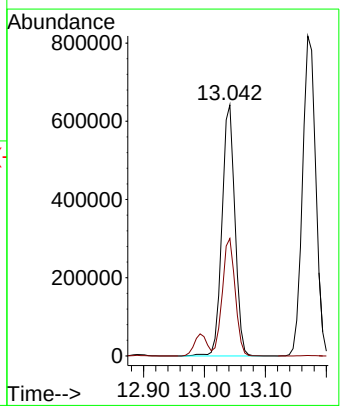


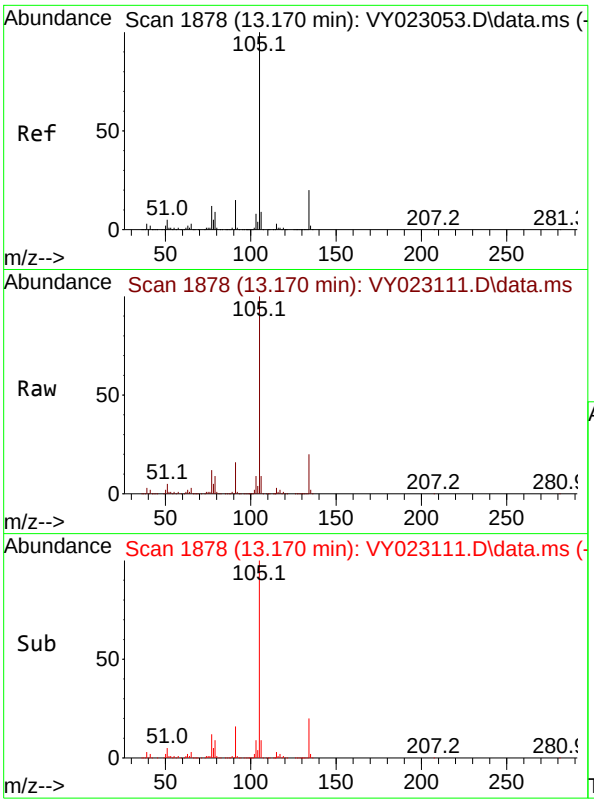


#84
1,2,4-Trimethylbenzene
Concen: 54.277 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:105 Resp: 946009

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0



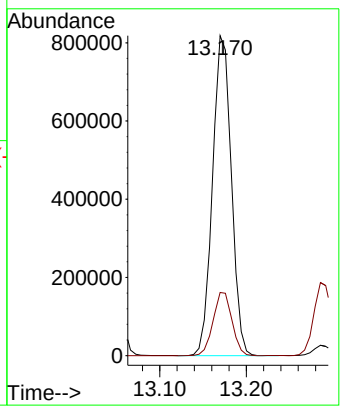


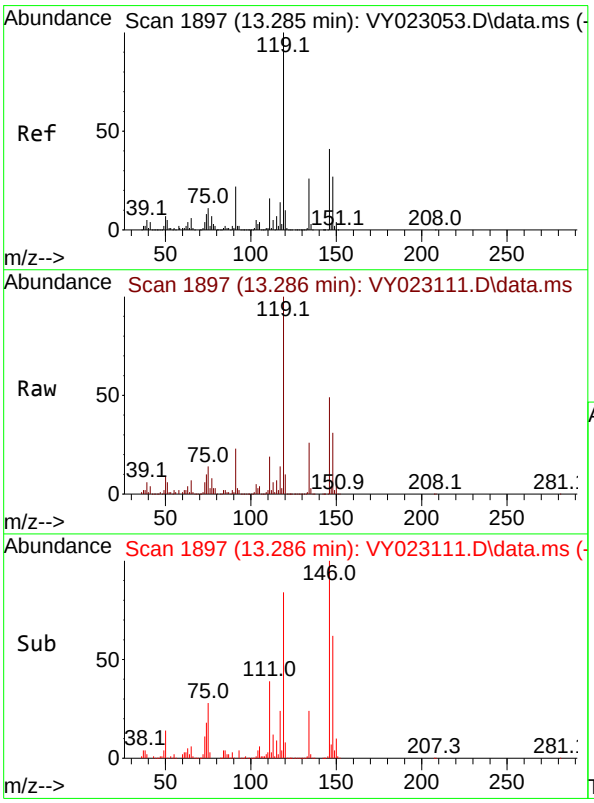
#85
sec-Butylbenzene
Concen: 53.143 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1234484

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4

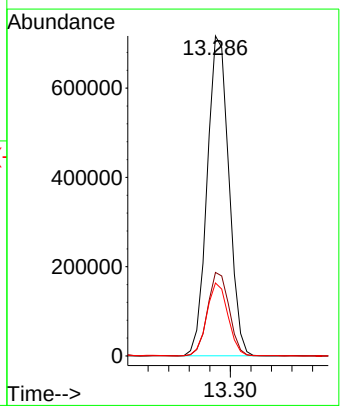


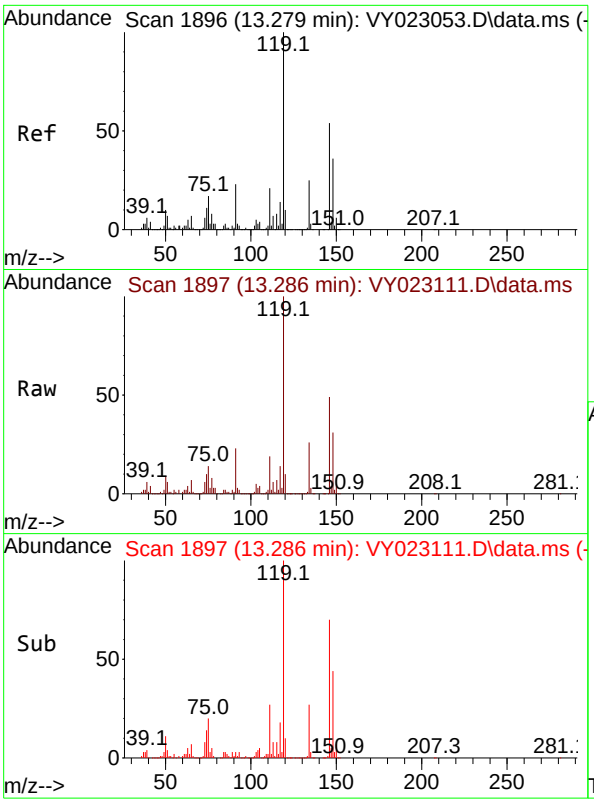


#86
p-Isopropyltoluene
Concen: 54.334 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:119 Resp: 1047646

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.2	39.6
91	22.4	11.3	33.8



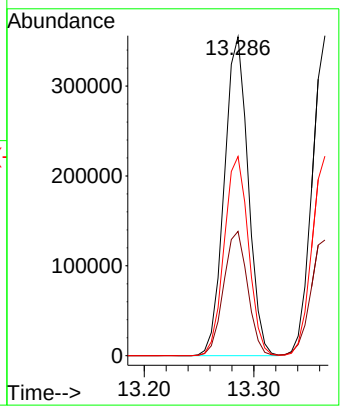


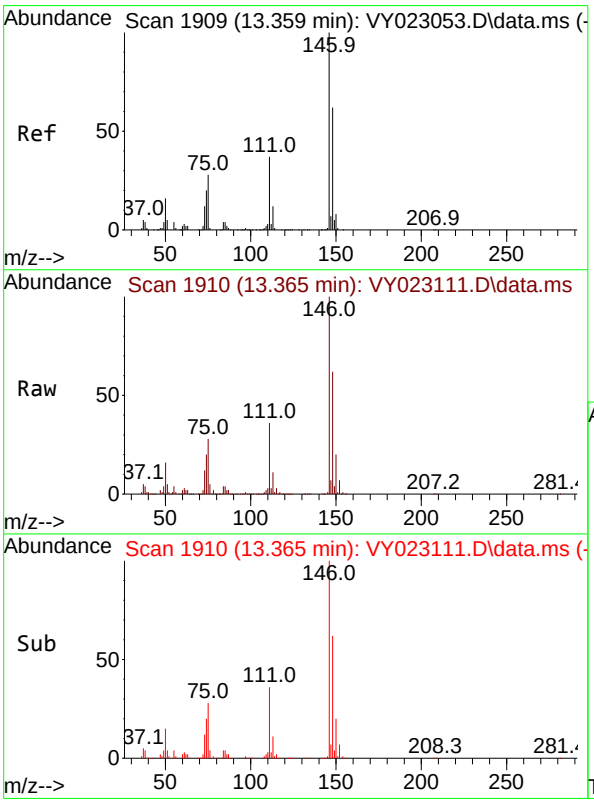
#87
1,3-Dichlorobenzene
Concen: 52.641 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 536529

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.6	58.7
148	63.4	32.5	97.5

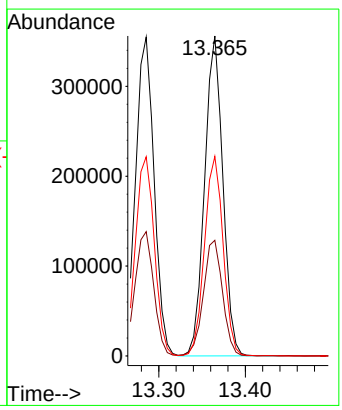


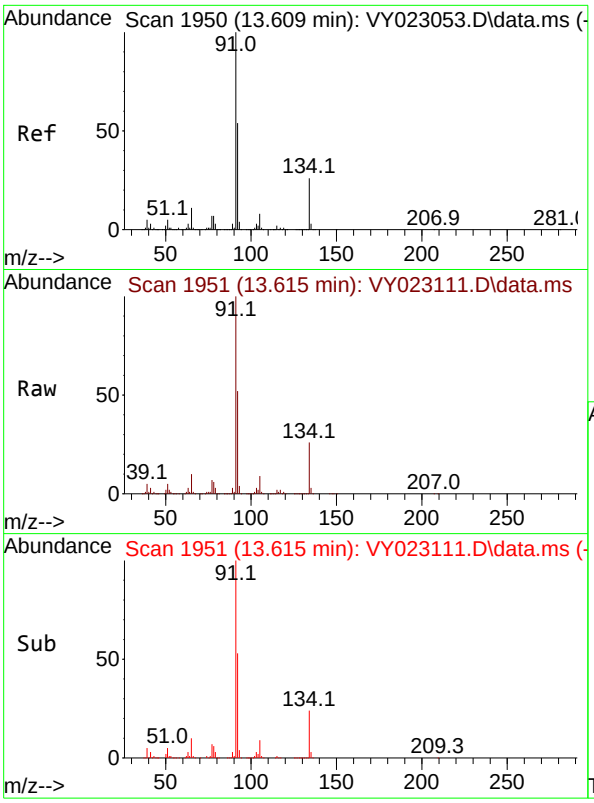


#88
1,4-Dichlorobenzene
Concen: 51.501 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:146 Resp: 520698

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	63.9	31.6	94.7



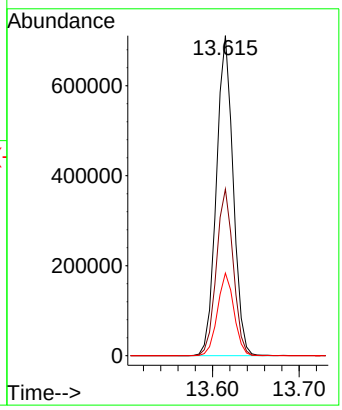


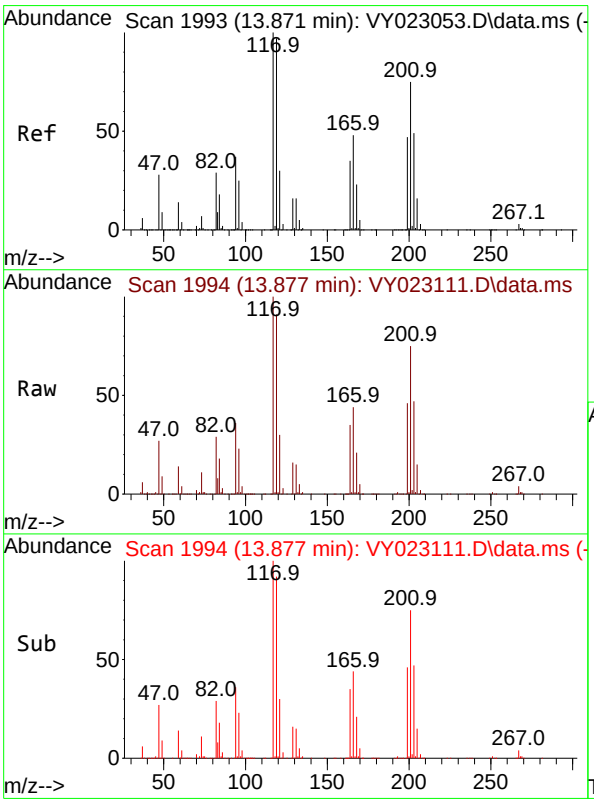
#89
n-Butylbenzene
Concen: 53.939 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 955218

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.9	80.7
134	25.4	13.2	39.5

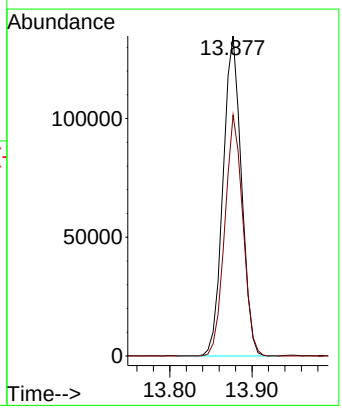


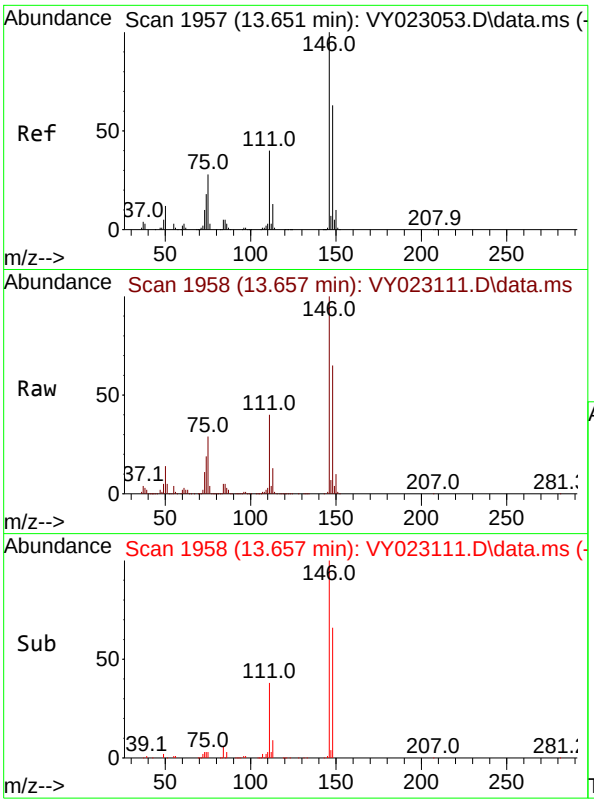


#90
Hexachloroethane
Concen: 53.061 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:117 Resp: 209441

Ion	Ratio	Lower	Upper
117	100		
201	74.2	38.4	115.1



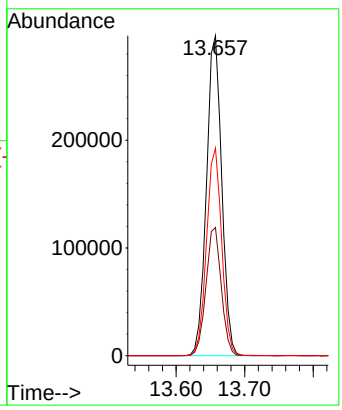


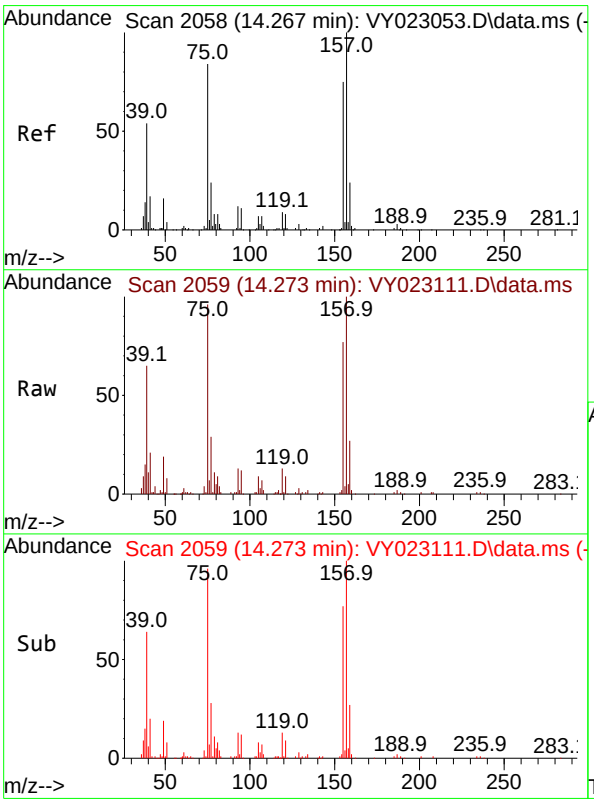
#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 460235

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.3	60.8
148	64.3	32.2	96.6

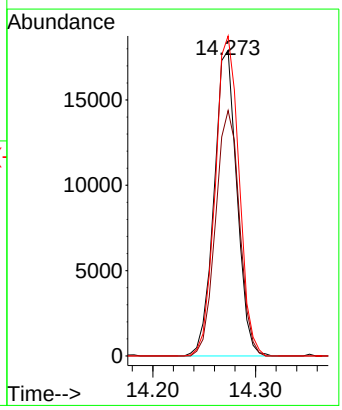


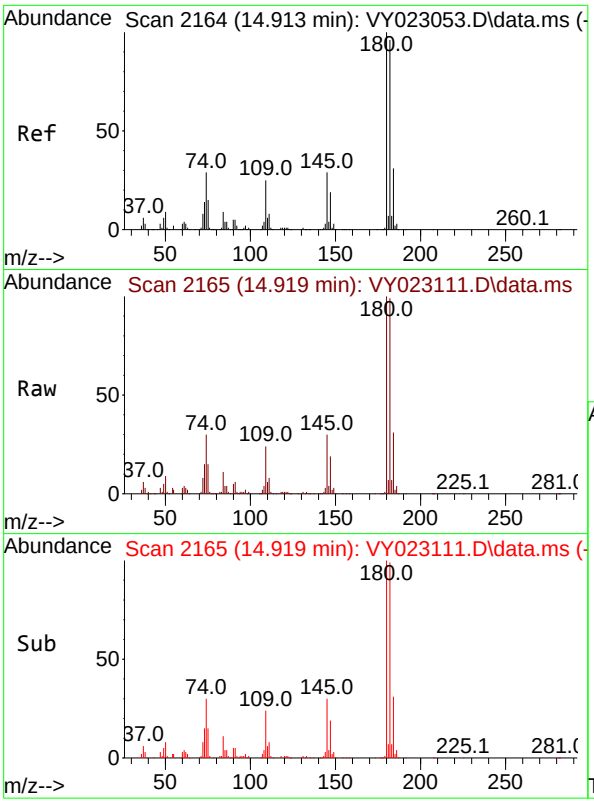


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion: 75 Resp: 27552

Ion	Ratio	Lower	Upper
75	100		
155	83.9	43.9	131.6
157	109.1	57.2	171.6



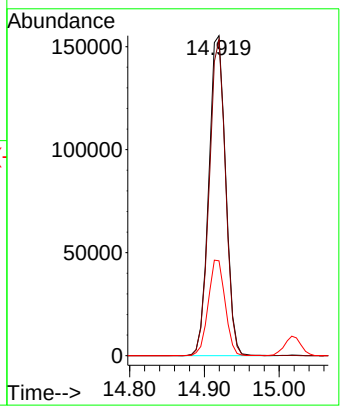


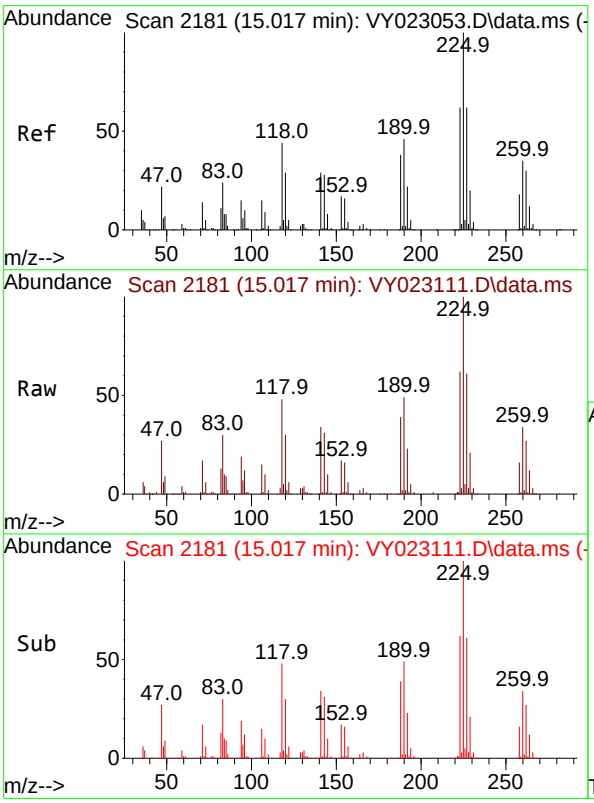
#93
1,2,4-Trichlorobenzene
Concen: 46.042 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 243376

Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.8	140.4
145	29.9	14.4	43.4

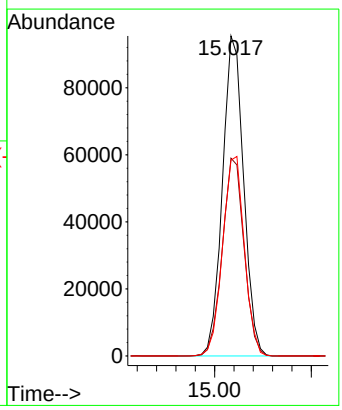


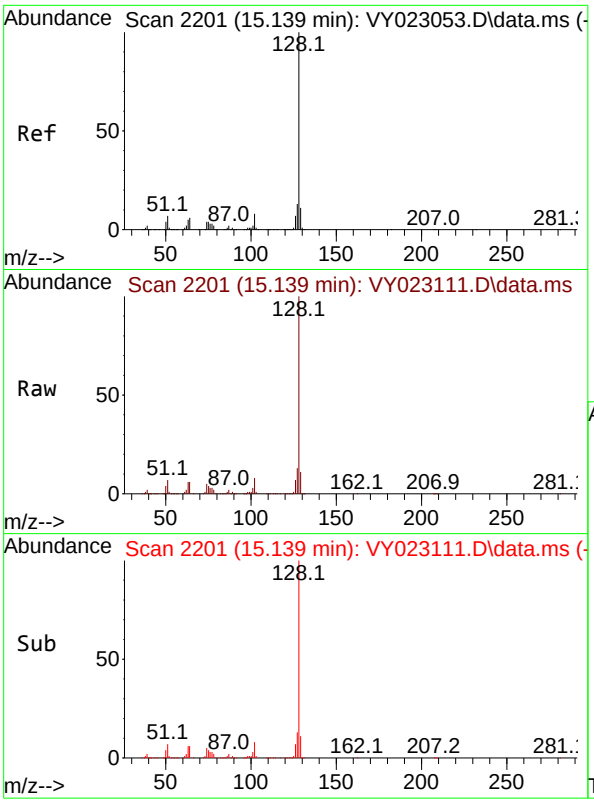


#94
Hexachlorobutadiene
Concen: 46.578 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:225 Resp: 144679

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.3	93.8
227	64.2	31.5	94.5



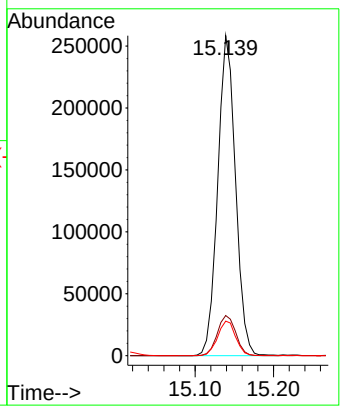


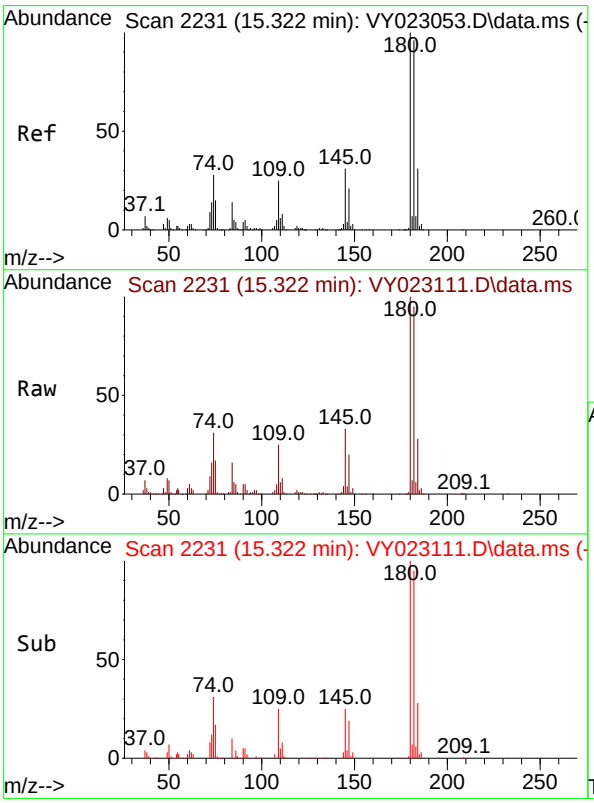
#95
Naphthalene
Concen: 45.340 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 408671

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.0	9.0	13.4

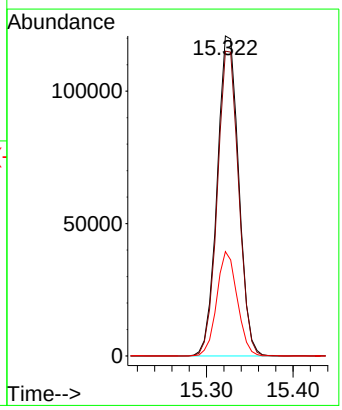




#96
1,2,3-Trichlorobenzene
Concen: 45.784 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023111.D
Acq: 15 Aug 2025 08:39

Tgt Ion:180 Resp: 208542

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.7
145	31.0	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	452403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	727202	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	654458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	327154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	222883	51.692	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.380%			
35) Dibromofluoromethane	7.634	113	214583	49.314	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.620%			
50) Toluene-d8	10.103	98	852746	50.165	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.320%			
62) 4-Bromofluorobenzene	12.402	95	265399	48.547	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	72666	19.678	ug/l	95
3) Chloromethane	2.068	50	133033	22.242	ug/l	99
4) Vinyl Chloride	2.202	62	166453	22.514	ug/l	99
5) Bromomethane	2.586	94	140731	25.487	ug/l	99
6) Chloroethane	2.733	64	111737	22.732	ug/l	98
7) Trichlorofluoromethane	3.050	101	189636	21.094	ug/l	99
8) Diethyl Ether	3.452	74	47224	19.855	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	89471	20.173	ug/l	98
10) Methyl Iodide	4.001	142	86732	18.122	ug/l	98
11) Tert butyl alcohol	4.860	59	27882	94.376	ug/l	99
12) 1,1-Dichloroethene	3.787	96	86211	19.775	ug/l	96
13) Acrolein	3.647	56	38871	89.841	ug/l	100
14) Allyl chloride	4.379	41	123002	19.175	ug/l	98
15) Acrylonitrile	5.055	53	97096	100.413	ug/l	99
16) Acetone	3.867	43	106046	113.526	ug/l	96
17) Carbon Disulfide	4.104	76	285962	20.117	ug/l	99
18) Methyl Acetate	4.379	43	51562	18.549	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	220832	19.548	ug/l	98
20) Methylene Chloride	4.610	84	108703	20.808	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	97531	19.907	ug/l	98
22) Diisopropyl ether	6.019	45	280592	20.129	ug/l	95
23) Vinyl Acetate	5.958	43	767186	99.534	ug/l	98
24) 1,1-Dichloroethane	5.915	63	173658	20.377	ug/l	99
25) 2-Butanone	6.890	43	133656	105.206	ug/l	100
26) 2,2-Dichloropropane	6.884	77	149423	20.319	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	113605	20.058	ug/l	97
28) Bromochloromethane	7.238	49	74111	21.919	ug/l	96
29) Tetrahydrofuran	7.262	42	77082	97.884	ug/l	99
30) Chloroform	7.415	83	183779	20.909	ug/l	92
31) Cyclohexane	7.701	56	151804	18.902	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	157956	20.254	ug/l	99
36) 1,1-Dichloropropene	7.835	75	129384	20.008	ug/l	99
37) Ethyl Acetate	6.982	43	55493	20.428	ug/l	98
38) Carbon Tetrachloride	7.817	117	137873	19.630	ug/l	99
39) Methylcyclohexane	9.103	83	159285	18.705	ug/l	99
40) Benzene	8.079	78	405603	20.350	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	28150	17.956	ug/l		90
42) 1,2-Dichloroethane	8.152	62	106658	20.575	ug/l		98
43) Isopropyl Acetate	8.195	43	107344	19.551	ug/l		99
44) Trichloroethene	8.860	130	105377	20.459	ug/l		100
45) 1,2-Dichloropropane	9.140	63	93789	20.451	ug/l		100
46) Dibromomethane	9.231	93	54800	20.819	ug/l		97
47) Bromodichloromethane	9.420	83	141008	20.819	ug/l		100
48) Methyl methacrylate	9.219	41	49562	18.864	ug/l		98
49) 1,4-Dioxane	9.238	88	12370	400.796	ug/l		97
51) 4-Methyl-2-Pentanone	9.994	43	277163	97.864	ug/l		100
52) Toluene	10.170	92	255717	20.201	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	121993	19.890	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	142316	19.623	ug/l		98
55) 1,1,2-Trichloroethane	10.567	97	71057	20.174	ug/l		98
56) Ethyl methacrylate	10.439	69	86412	19.173	ug/l		98
57) 1,3-Dichloropropane	10.713	76	118549	19.846	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	208567	98.106	ug/l		100
59) 2-Hexanone	10.756	43	193382	100.277	ug/l		99
60) Dibromochloromethane	10.908	129	93374	20.091	ug/l		99
61) 1,2-Dibromoethane	11.012	107	66622	20.125	ug/l		98
64) Tetrachloroethene	10.646	164	127239	21.773	ug/l		93
65) Chlorobenzene	11.438	112	274616	19.453	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	93262	19.466	ug/l		98
67) Ethyl Benzene	11.518	91	456905	18.808	ug/l		98
68) m/p-Xylenes	11.627	106	365819	38.555	ug/l		98
69) o-Xylene	11.951	106	165713	18.648	ug/l		98
70) Styrene	11.969	104	281721	19.385	ug/l		99
71) Bromoform	12.127	173	52326	18.687	ug/l	#	98
73) Isopropylbenzene	12.249	105	433053	18.755	ug/l		99
74) N-amyl acetate	12.066	43	91104	18.605	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	71400	18.110	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	101444	32.129	ug/l	#	100
77) Bromobenzene	12.530	156	104694	19.006	ug/l		97
78) n-propylbenzene	12.591	91	527930	19.204	ug/l		100
79) 2-Chlorotoluene	12.676	91	298409	18.946	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	351759	18.850	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	24161	18.524	ug/l		95
82) 4-Chlorotoluene	12.774	91	307174	18.799	ug/l		99
83) tert-Butylbenzene	12.993	119	305956	18.153	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	356647	19.199	ug/l		99
85) sec-Butylbenzene	13.170	105	468353	18.917	ug/l		100
86) p-Isopropyltoluene	13.286	119	388353	18.897	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	206995	19.055	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	207638	19.268	ug/l		99
89) n-Butylbenzene	13.615	91	353333	18.720	ug/l		98
90) Hexachloroethane	13.877	117	82985	19.725	ug/l		97
91) 1,2-Dichlorobenzene	13.658	146	180503	18.946	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12160	19.809	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	102405	18.177	ug/l		99
94) Hexachlorobutadiene	15.017	225	61940	18.710	ug/l		98
95) Naphthalene	15.139	128	168145	17.503	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	86860	17.892	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

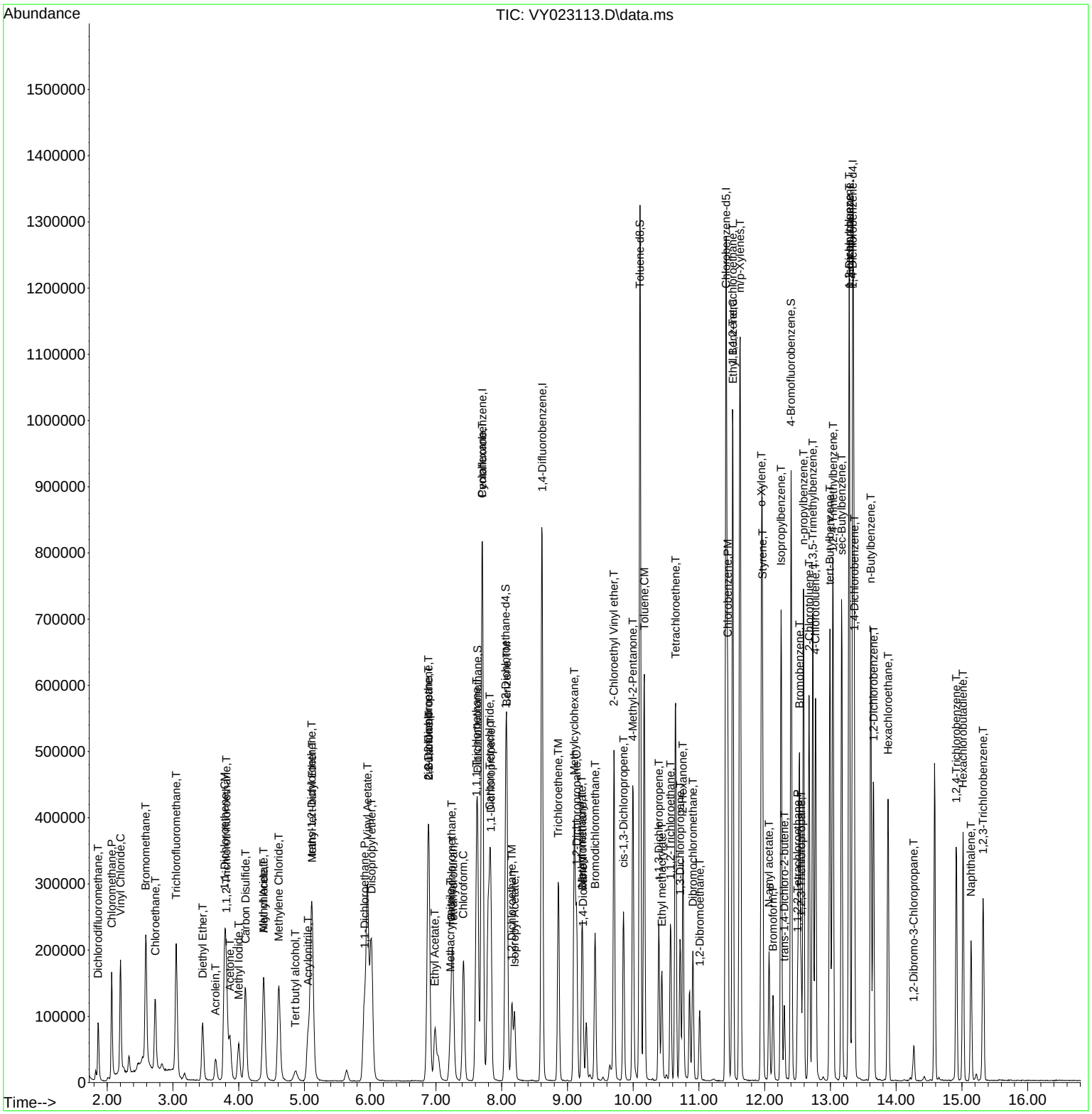
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

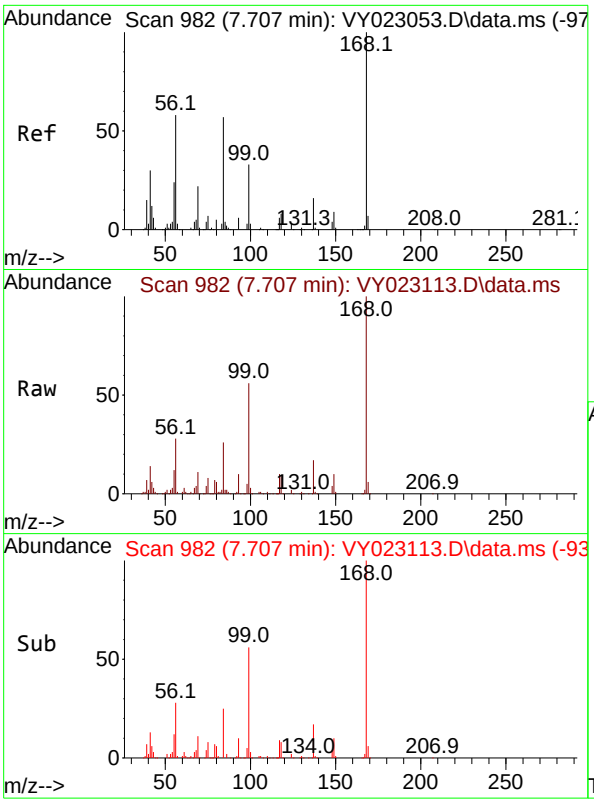
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



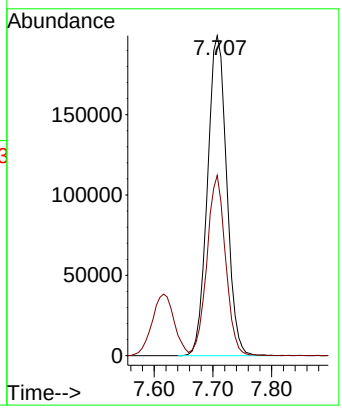


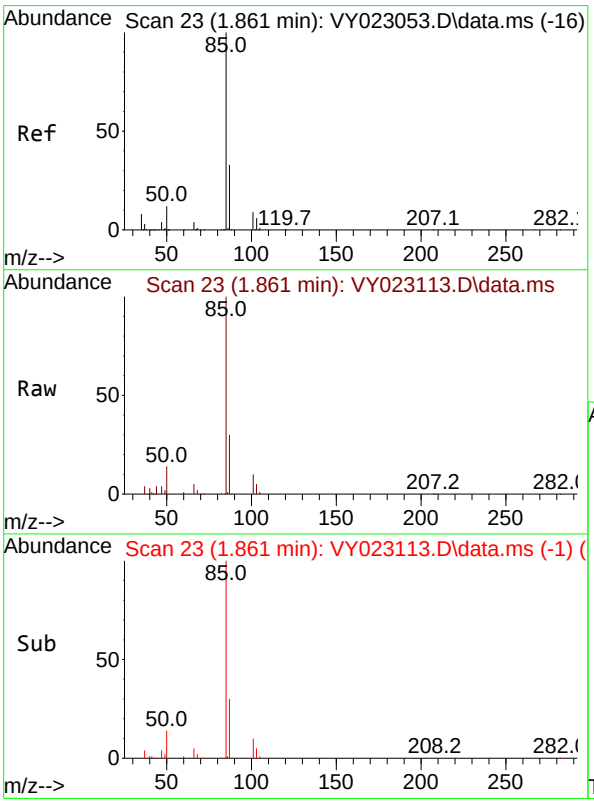
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:168 Resp: 452403

Ion	Ratio	Lower	Upper
168	100		
99	56.3	42.8	64.2

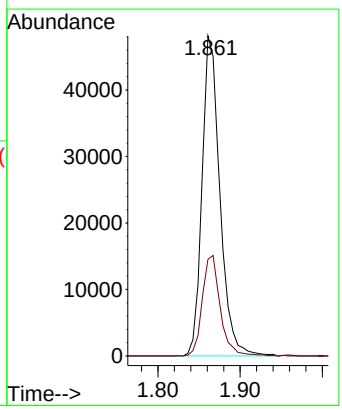


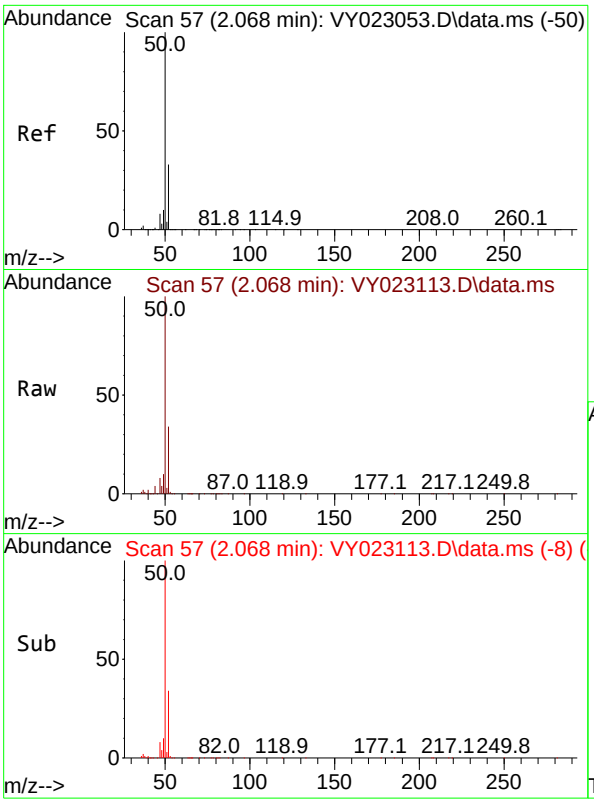


#2
Dichlorodifluoromethane
Concen: 19.678 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 85 Resp: 72666

Ion	Ratio	Lower	Upper
85	100		
87	30.2	16.6	49.8



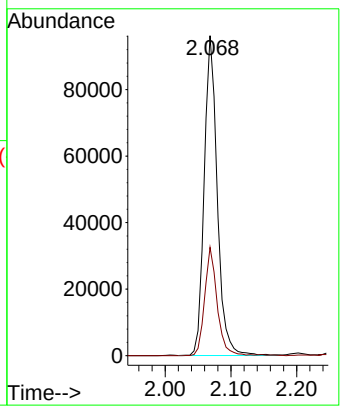


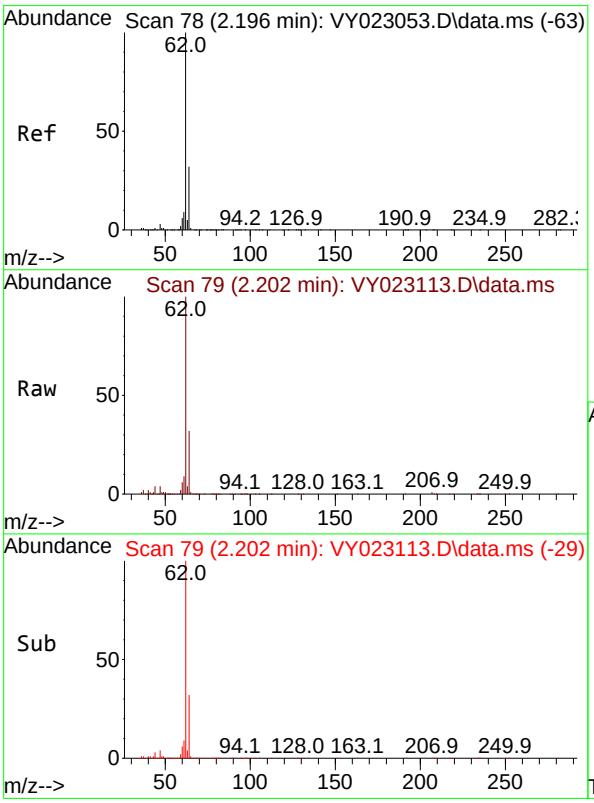
#3
Chloromethane
Concen: 22.242 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 50 Resp: 133033

Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.7	40.1

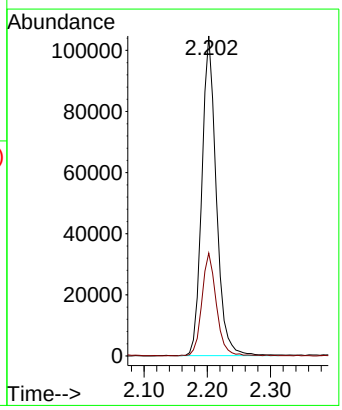


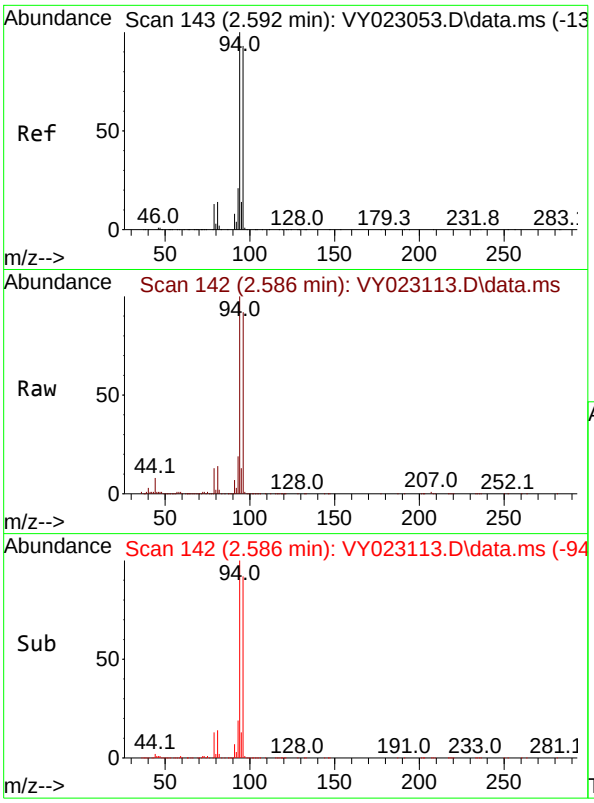


#4
Vinyl Chloride
Concen: 22.514 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 62 Resp: 166453

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0



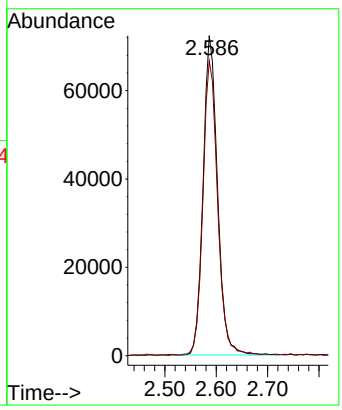


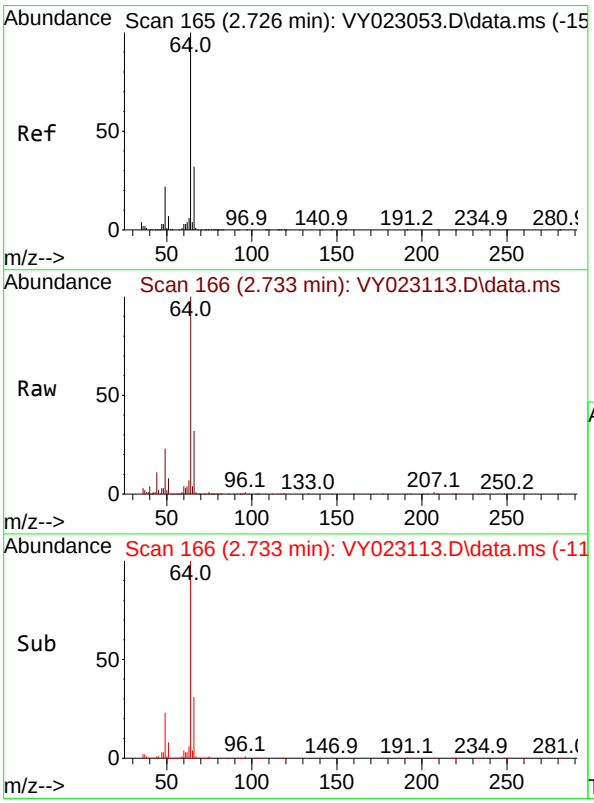
#5
Bromomethane
Concen: 25.487 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 94 Resp: 140731

Ion	Ratio	Lower	Upper
94	100		
96	92.1	74.6	112.0

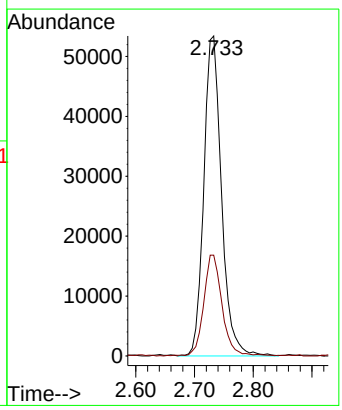


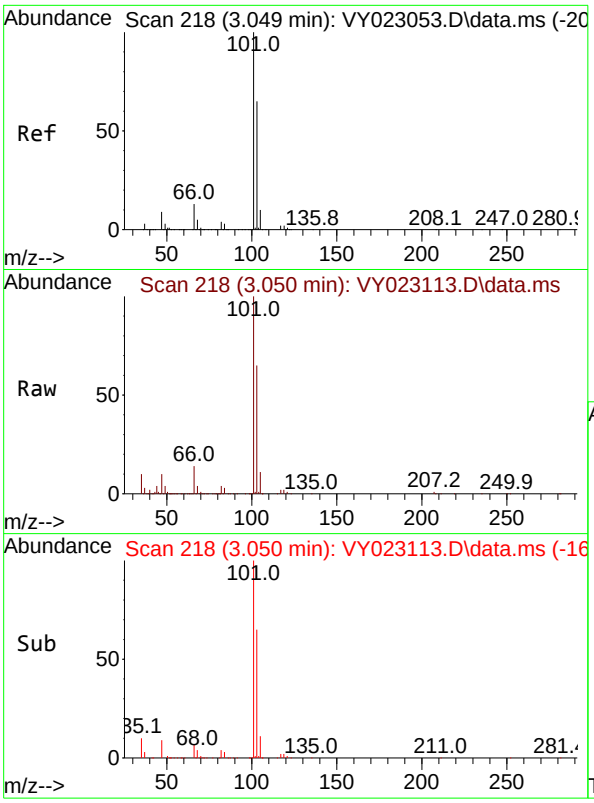


#6
Chloroethane
Concen: 22.732 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 64 Resp: 111737

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.8	38.6



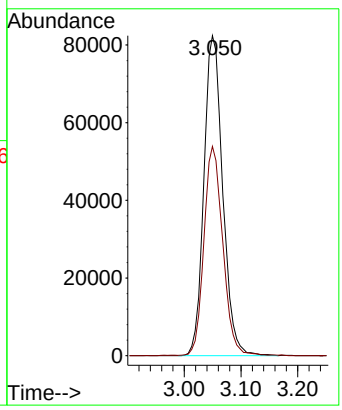


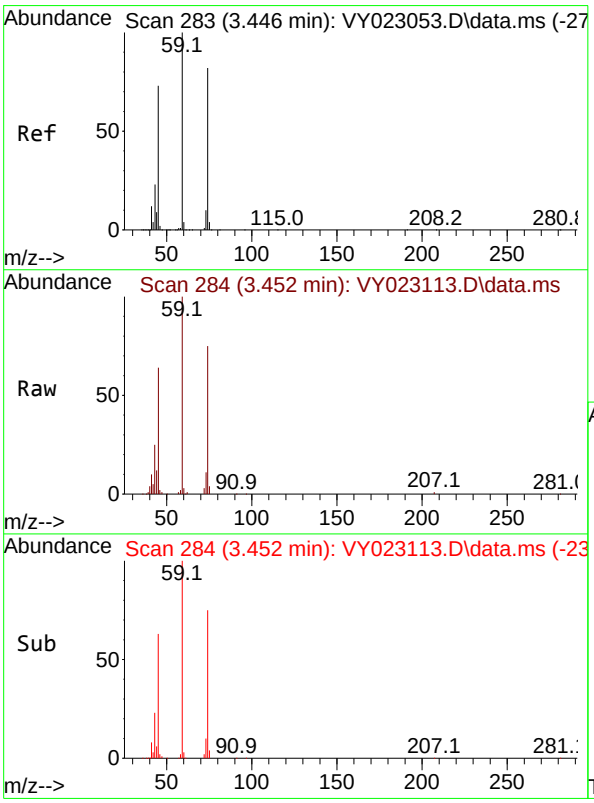
#7
Trichlorofluoromethane
Concen: 21.094 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:101 Resp: 189636

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.9	77.9

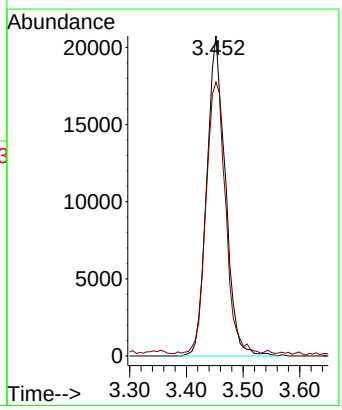


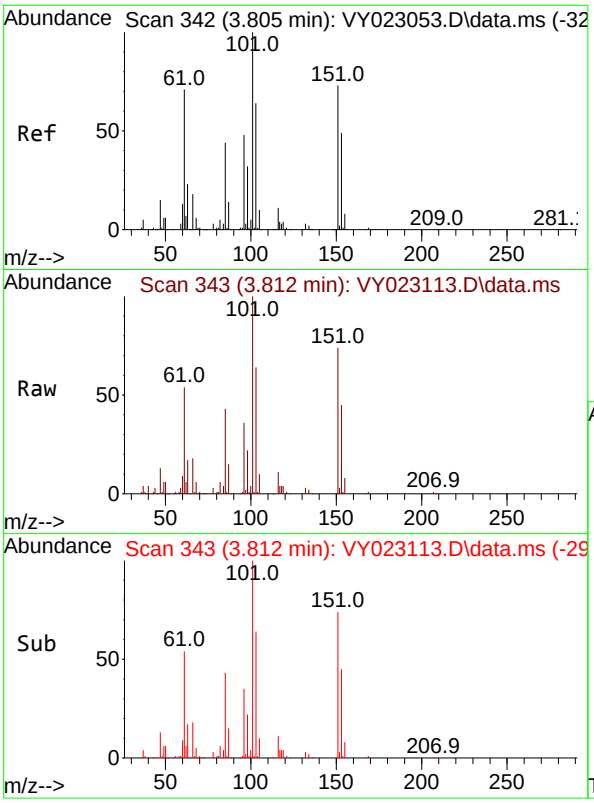


#8
Diethyl Ether
Concen: 19.855 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 74 Resp: 47224

Ion	Ratio	Lower	Upper
74	100		
45	89.4	44.4	133.2



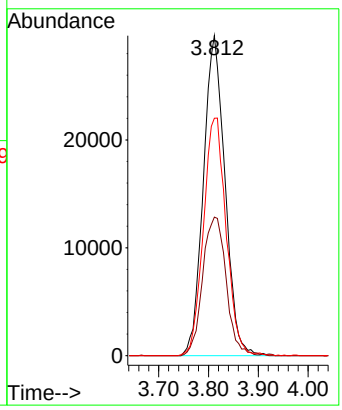


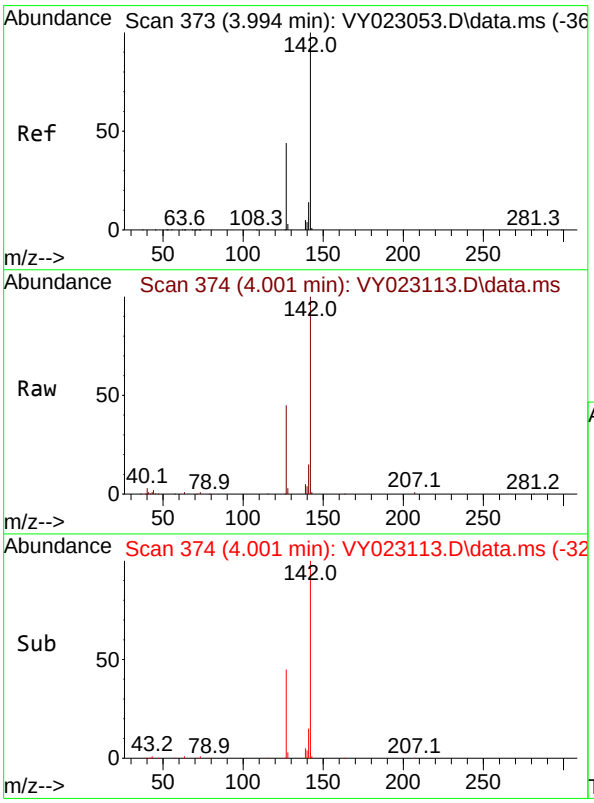
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.173 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:101 Resp: 89471

Ion	Ratio	Lower	Upper
101	100		
85	46.8	36.3	54.5
151	78.1	61.5	92.3

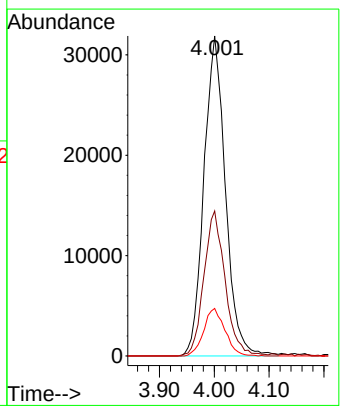


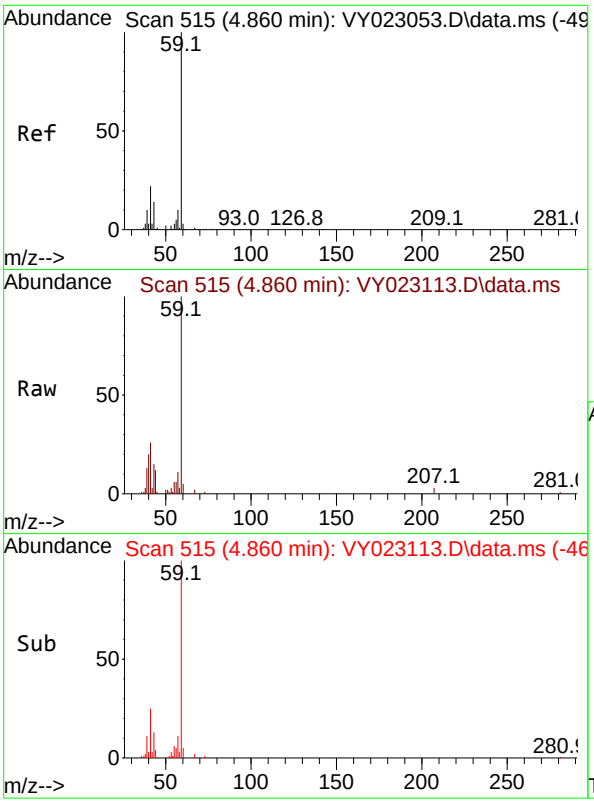


#10
Methyl Iodide
Concen: 18.122 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:142 Resp: 86732

Ion	Ratio	Lower	Upper
142	100		
127	44.8	34.9	52.3
141	14.7	11.3	16.9



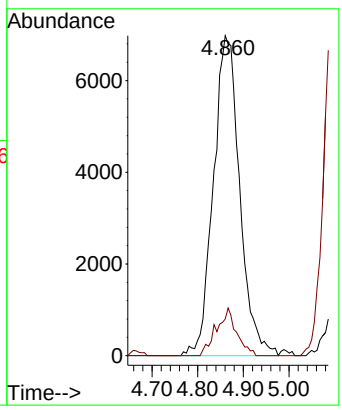


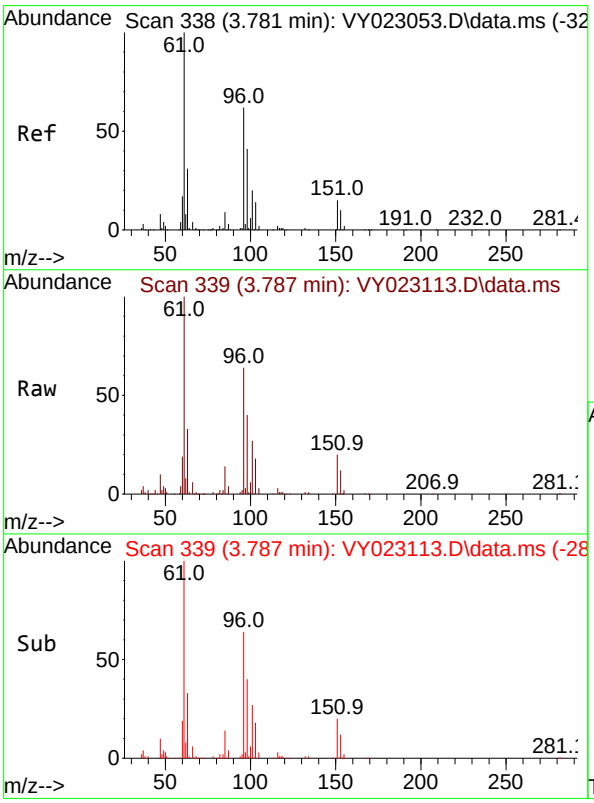
#11
Tert butyl alcohol
Concen: 94.376 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 59 Resp: 27882

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.6	13.0

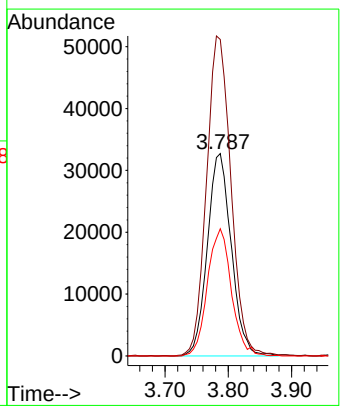


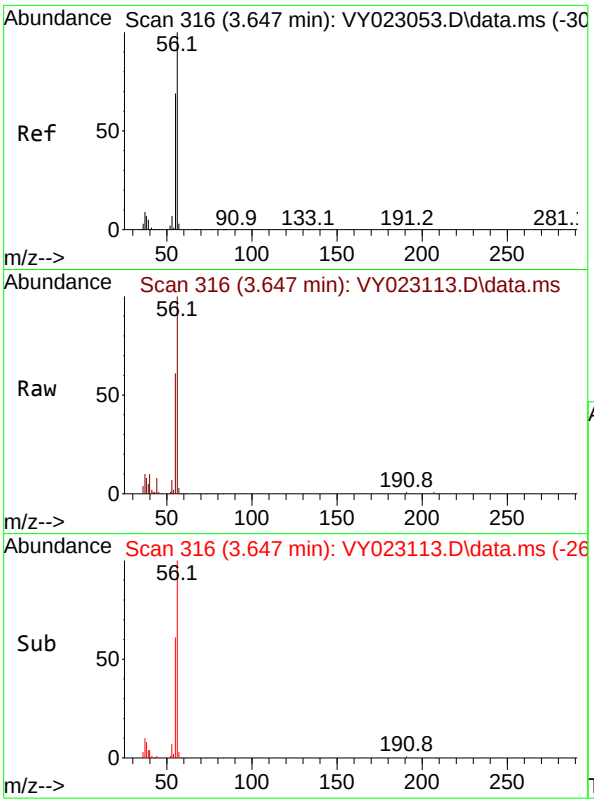


#12
1,1-Dichloroethene
Concen: 19.775 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 96 Resp: 86211

Ion	Ratio	Lower	Upper
96	100		
61	156.1	129.4	194.2
98	62.8	52.8	79.2



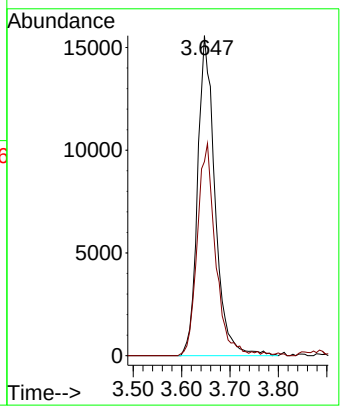


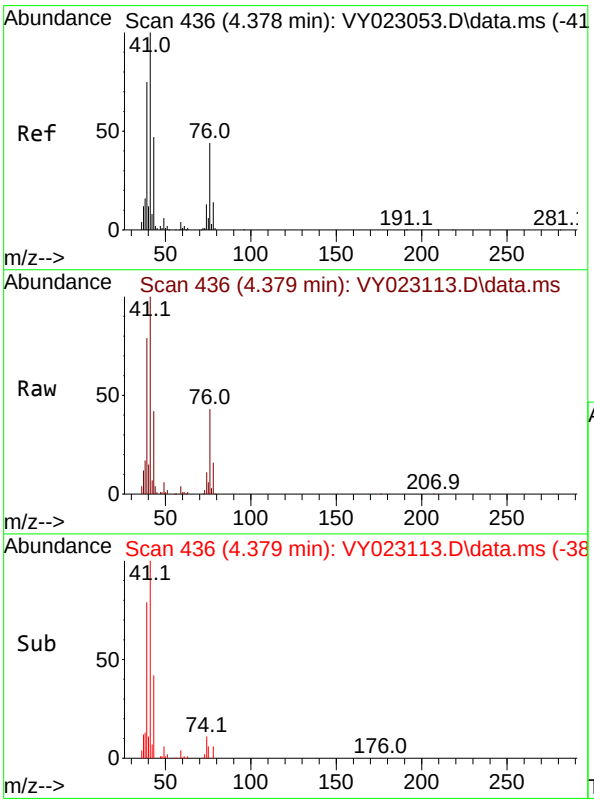
#13
Acrolein
Concen: 89.841 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 56 Resp: 38871

Ion	Ratio	Lower	Upper
56	100		
55	69.2	55.2	82.8

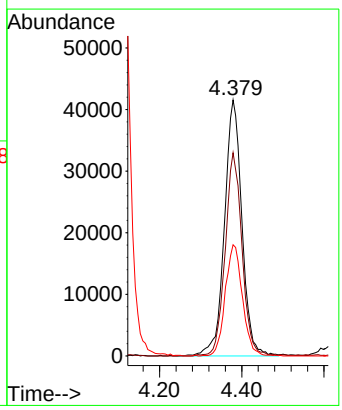


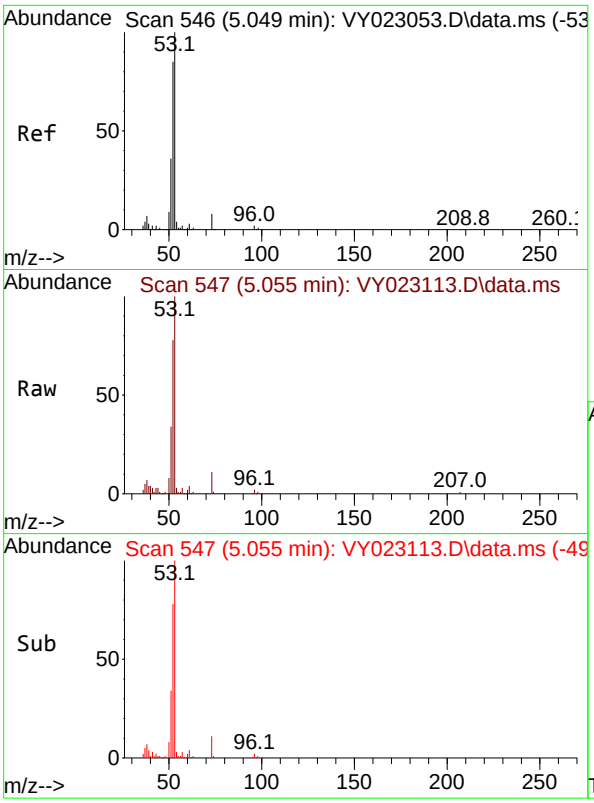


#14
Allyl chloride
Concen: 19.175 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 41 Resp: 123002

Ion	Ratio	Lower	Upper
41	100		
39	76.3	59.8	89.6
76	42.7	33.7	50.5



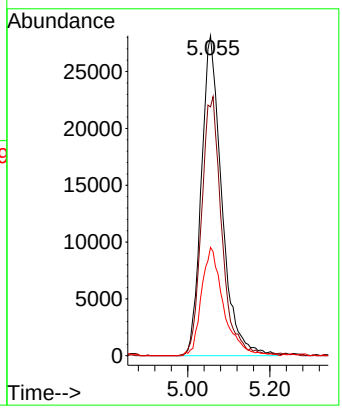


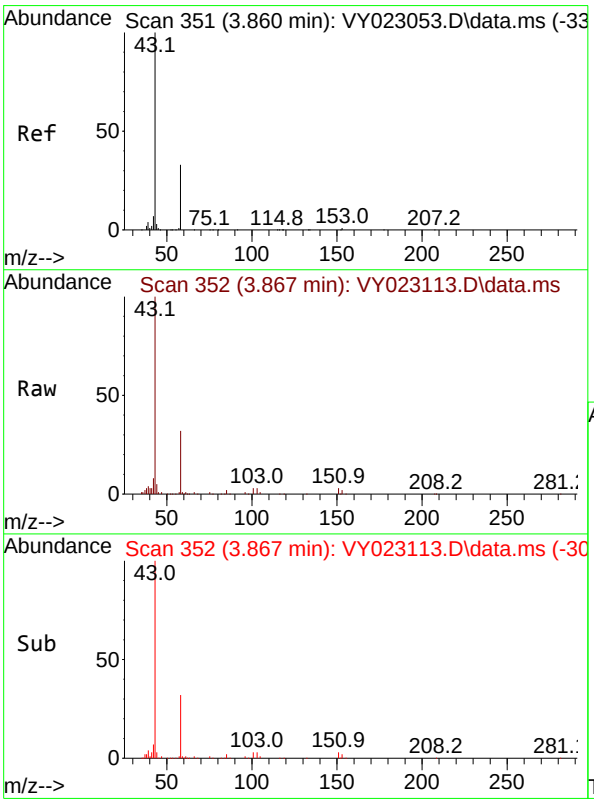
#15
Acrylonitrile
Concen: 100.413 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 53 Resp: 97096

Ion	Ratio	Lower	Upper
53	100		
52	79.8	65.3	97.9
51	36.7	29.5	44.3

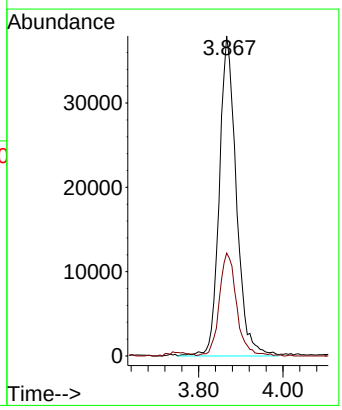


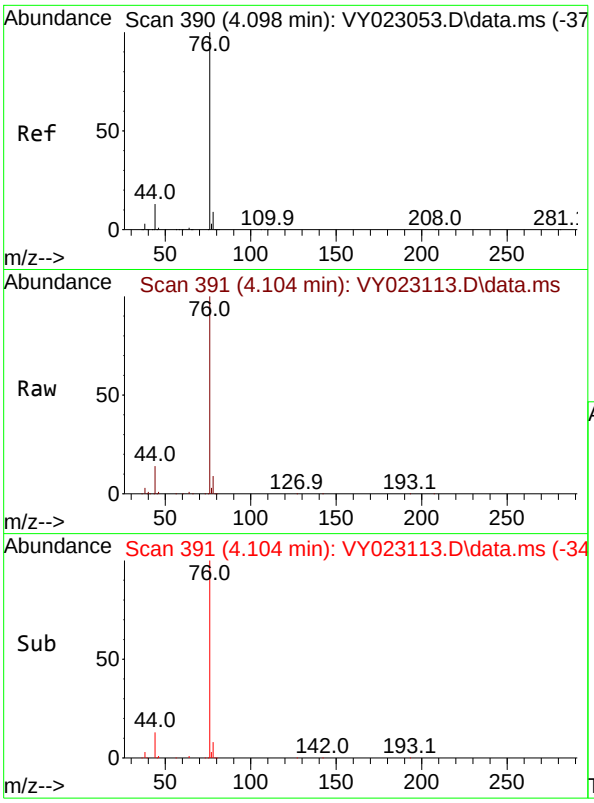


#16
Acetone
Concen: 113.526 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 106046

Ion	Ratio	Lower	Upper
43	100		
58	31.8	27.1	40.7



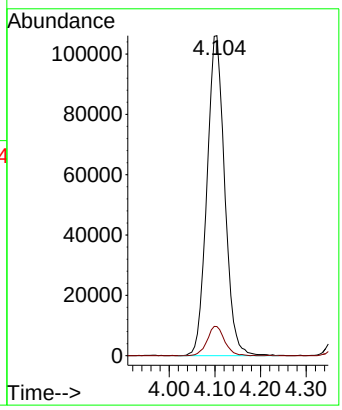


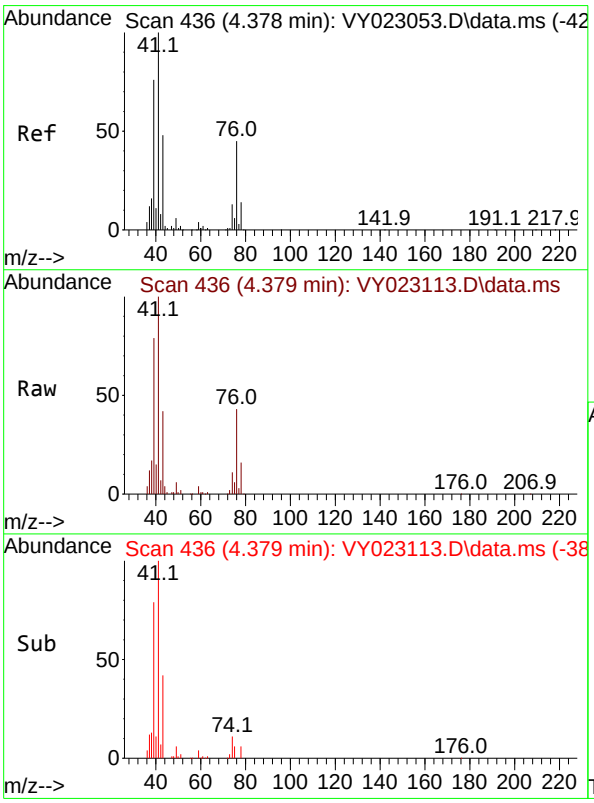
#17
Carbon Disulfide
Concen: 20.117 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 76 Resp: 285962

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2

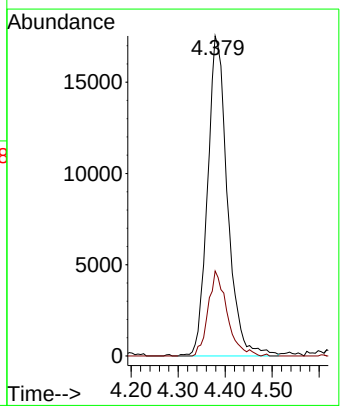


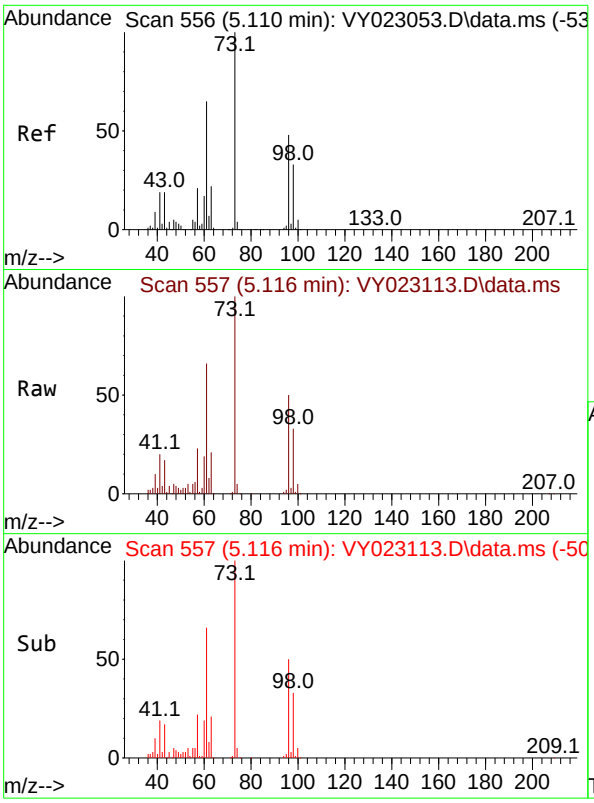


#18
Methyl Acetate
Concen: 18.549 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 51562

Ion	Ratio	Lower	Upper
43	100		
74	25.4	21.2	31.8



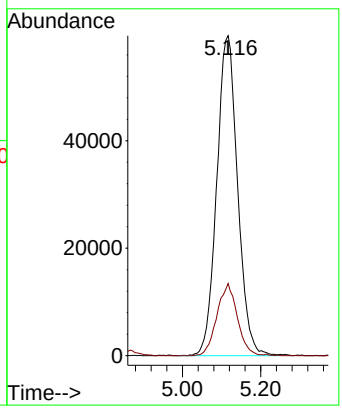


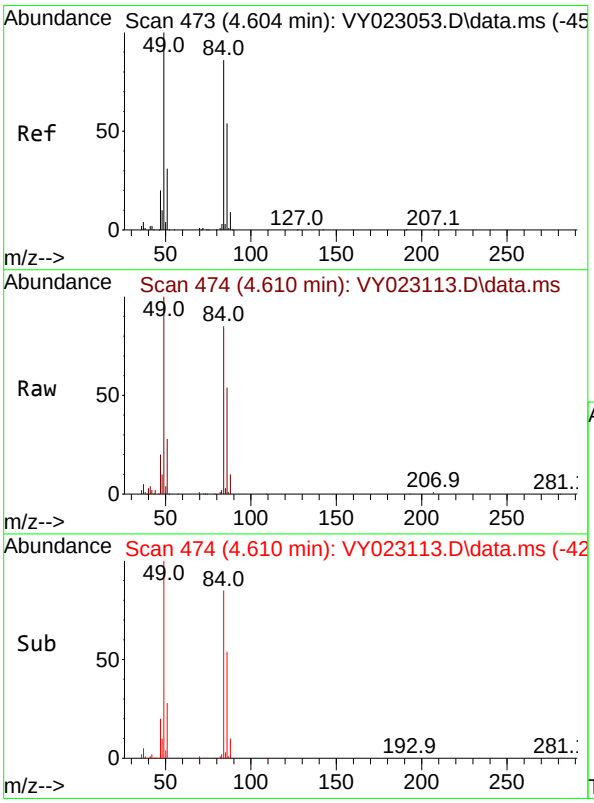
#19
Methyl tert-butyl Ether
Concen: 19.548 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 73 Resp: 220832

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.1	25.7

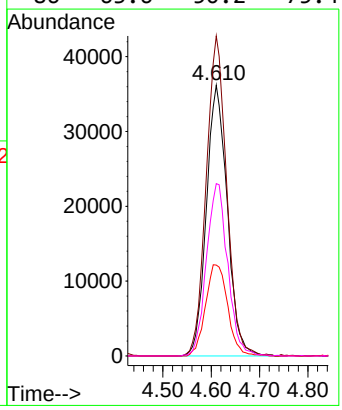


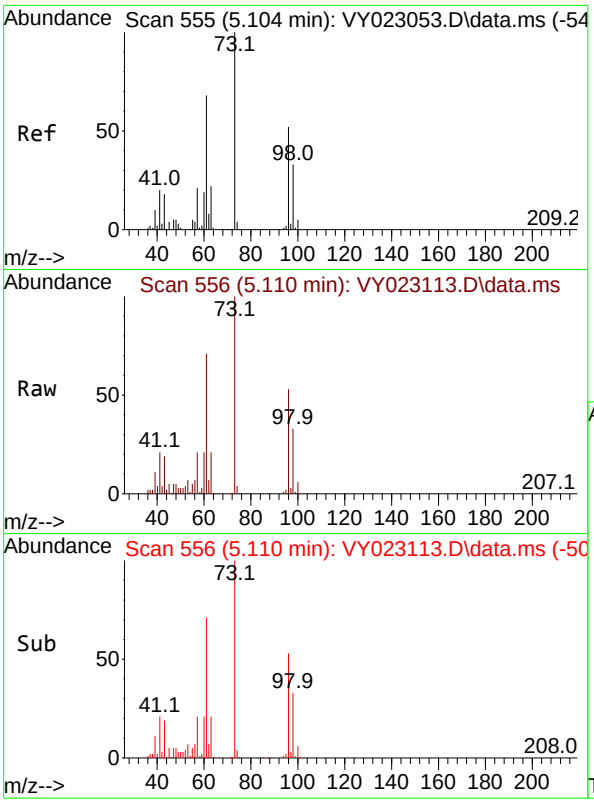


#20
Methylene Chloride
Concen: 20.808 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 84 Resp: 108703

Ion	Ratio	Lower	Upper
84	100		
49	118.2	93.0	139.6
51	33.5	29.0	43.4
86	63.6	50.2	75.4



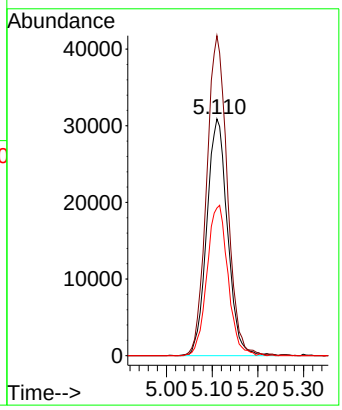


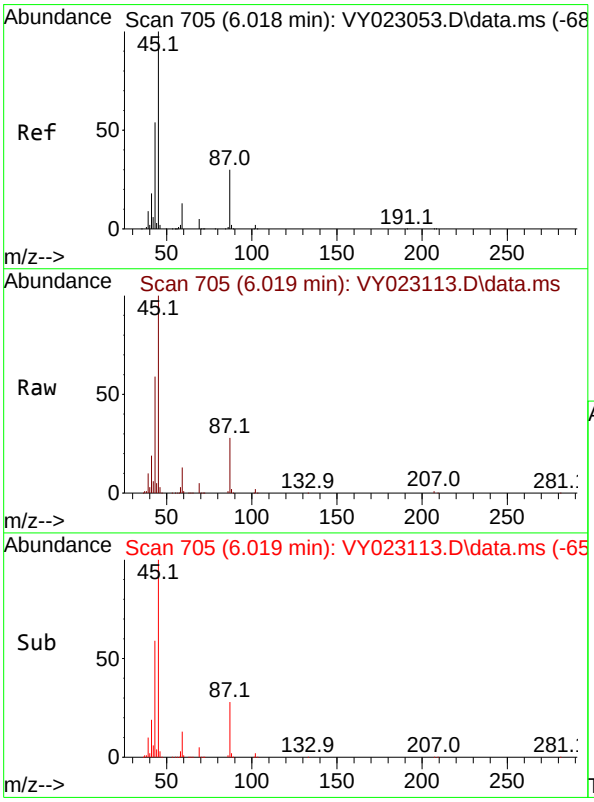
#21
trans-1,2-Dichloroethene
Concen: 19.907 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 96 Resp: 97531

Ion	Ratio	Lower	Upper
96	100		
61	135.1	104.8	157.2
98	62.3	50.1	75.1

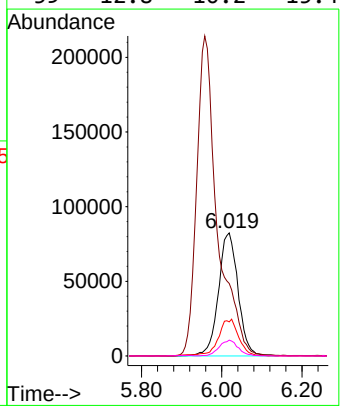


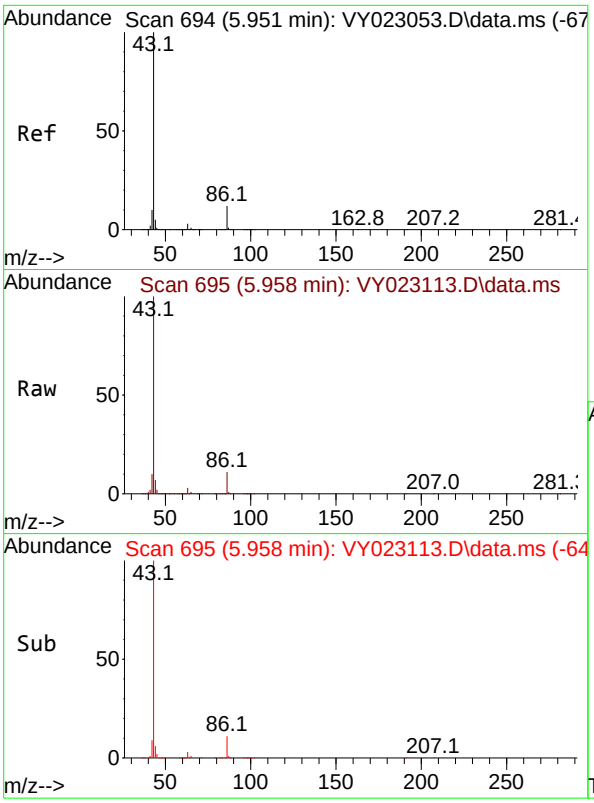


#22
Diisopropyl ether
Concen: 20.129 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 45 Resp: 280592

Ion	Ratio	Lower	Upper
45	100		
43	58.6	43.4	65.0
87	27.7	24.4	36.6
59	12.8	10.2	15.4



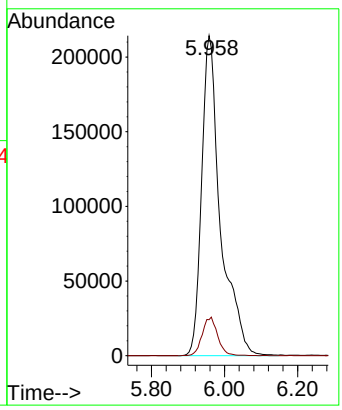


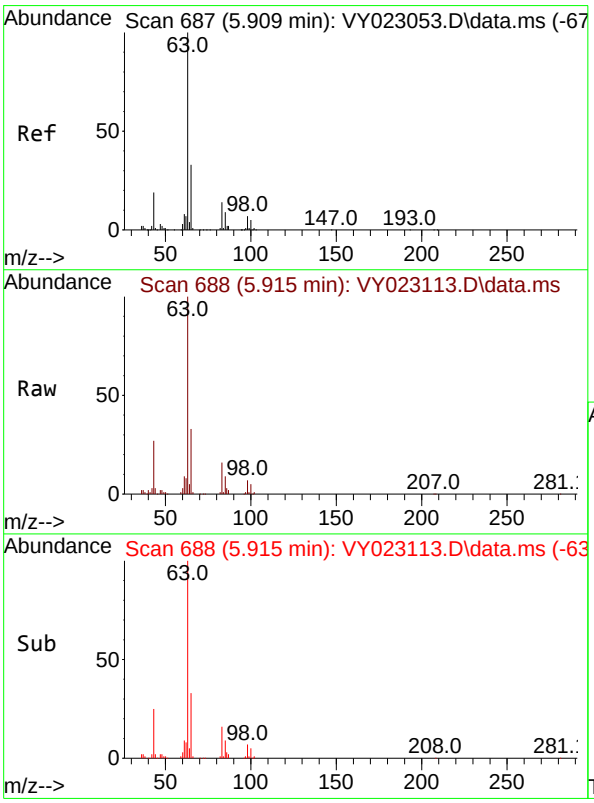
#23
Vinyl Acetate
Concen: 99.534 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 43 Resp: 767186

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.6	14.4

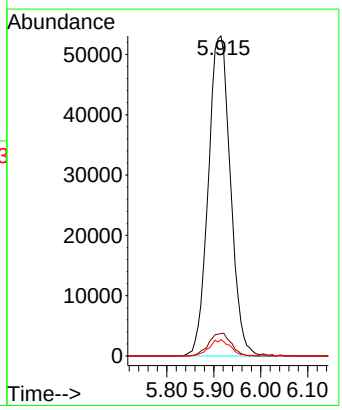


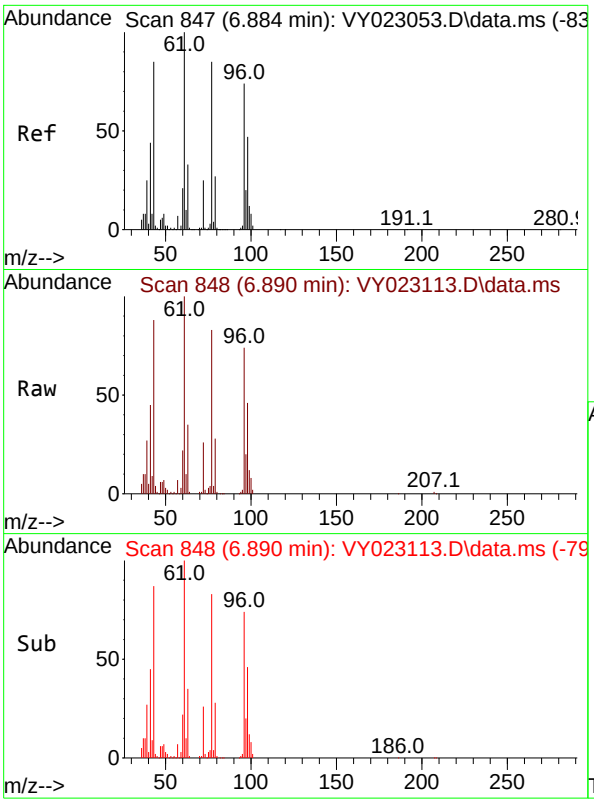


#24
1,1-Dichloroethane
Concen: 20.377 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 63 Resp: 173658

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	5.1	2.4	7.1



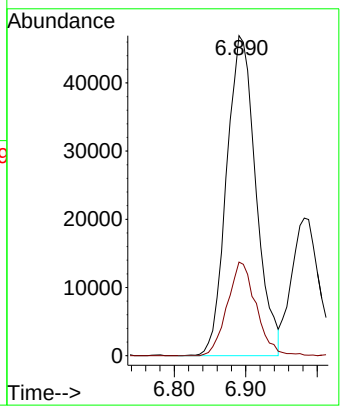


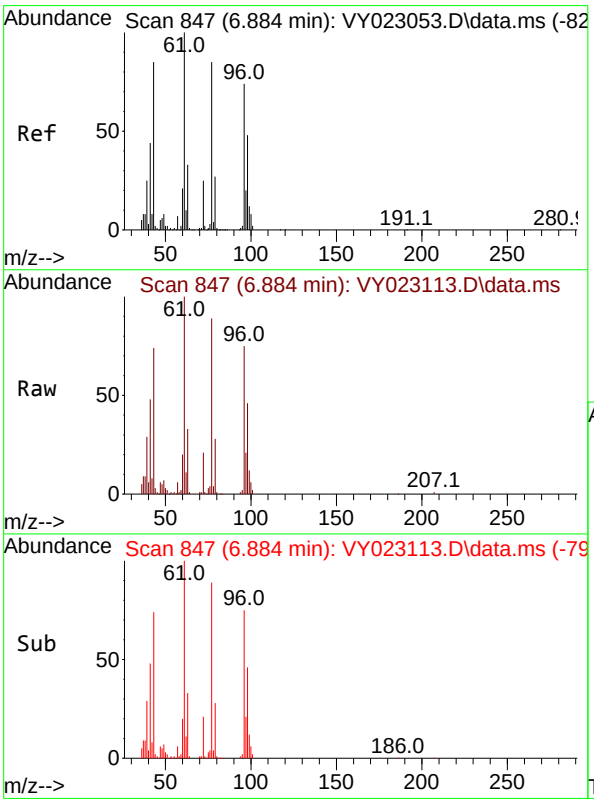
#25
2-Butanone
Concen: 105.206 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 43 Resp: 133656

Ion	Ratio	Lower	Upper
43	100		
72	29.3	23.5	35.3

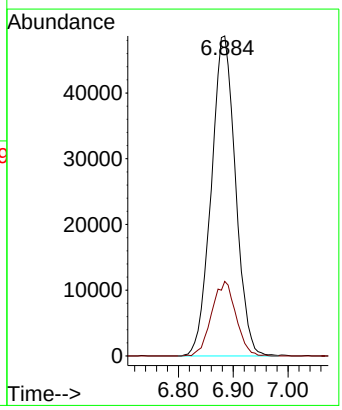


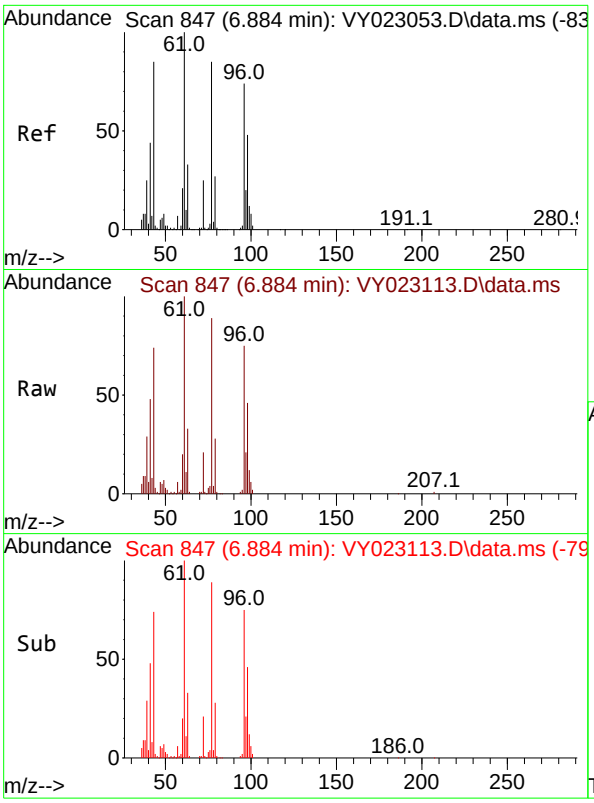


#26
2,2-Dichloropropane
Concen: 20.319 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 77 Resp: 149423

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8



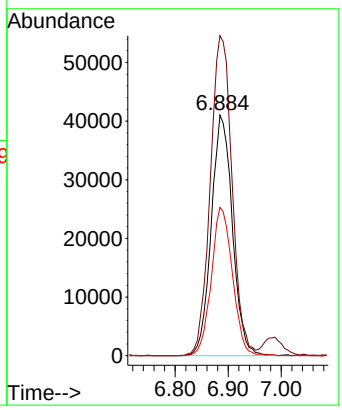


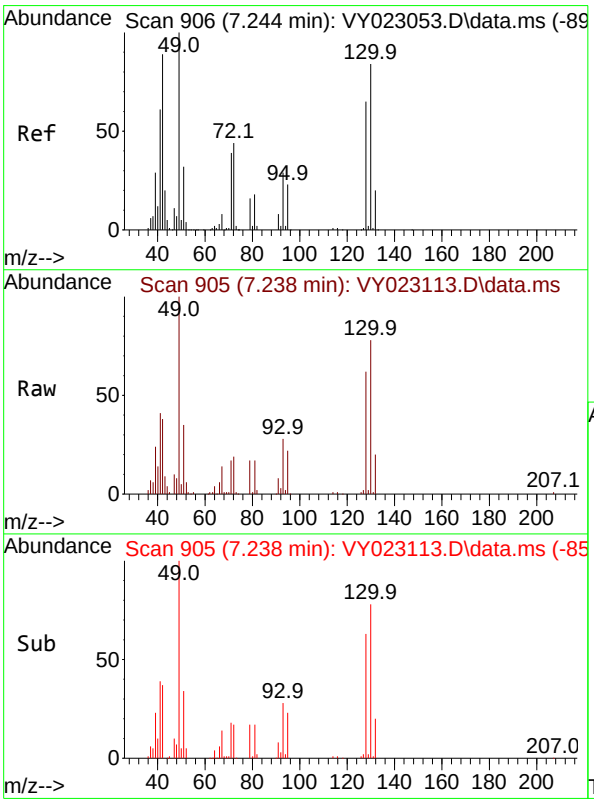
#27
cis-1,2-Dichloroethene
Concen: 20.058 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 96 Resp: 113605

Ion	Ratio	Lower	Upper
96	100		
61	136.9	0.0	278.6
98	61.6	0.0	130.4

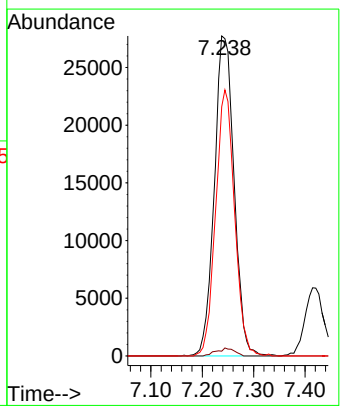


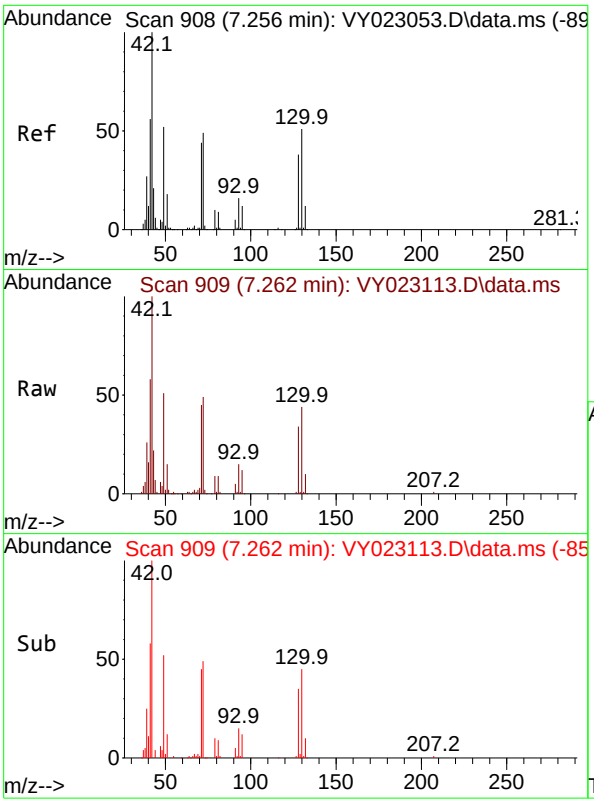


#28
Bromochloromethane
Concen: 21.919 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 49 Resp: 74111

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	79.7	66.4	99.6



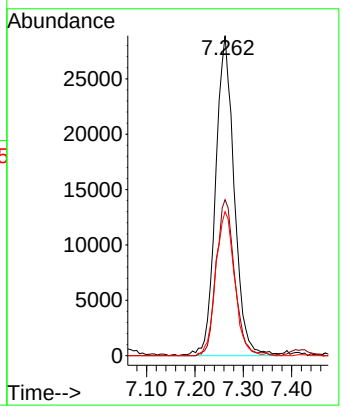


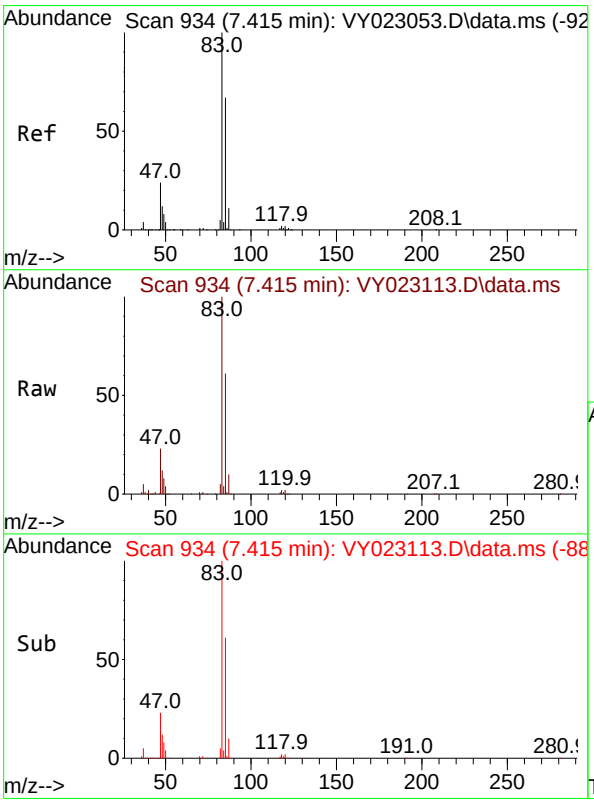
#29
Tetrahydrofuran
Concen: 97.884 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 42 Resp: 77082

Ion	Ratio	Lower	Upper
42	100		
72	48.1	39.4	59.2
71	45.7	36.5	54.7

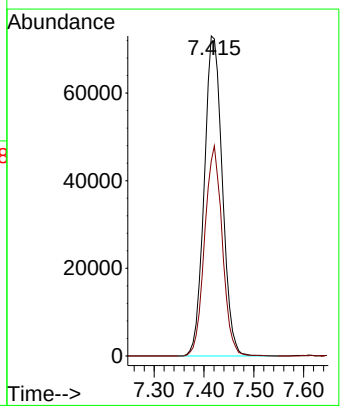


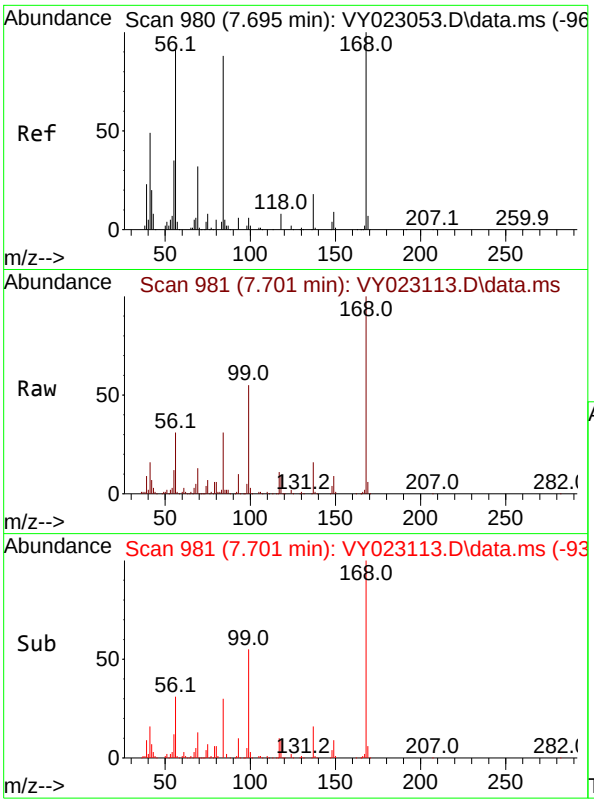


#30
Chloroform
Concen: 20.909 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 83 Resp: 183779

Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.8	80.8



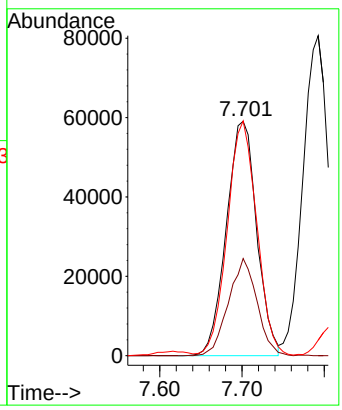


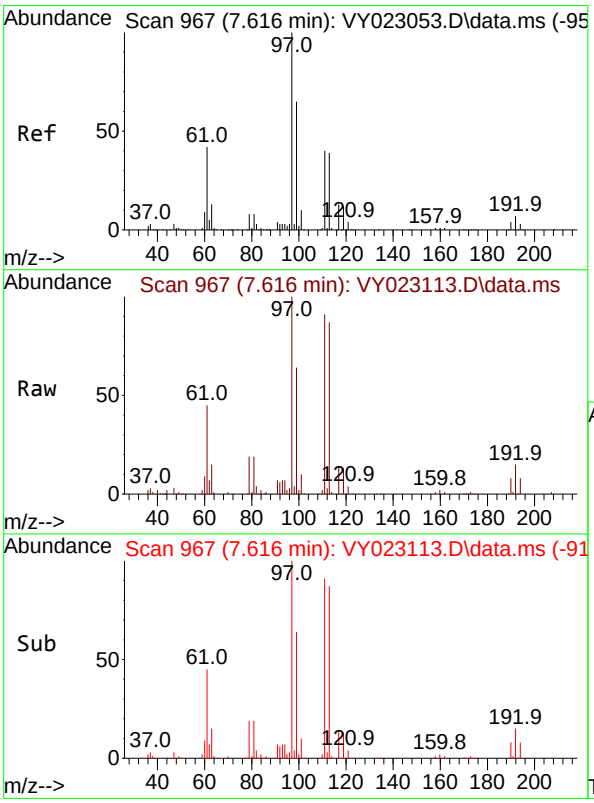
#31
Cyclohexane
Concen: 18.902 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 56 Resp: 151804

Ion	Ratio	Lower	Upper
56	100		
69	41.4	28.2	42.2
84	98.5	76.6	114.8

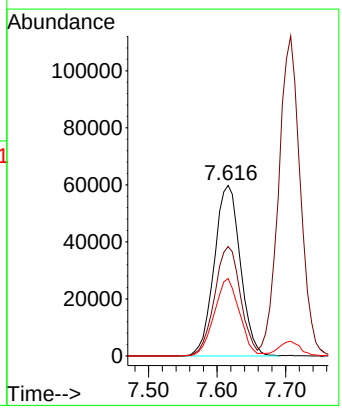


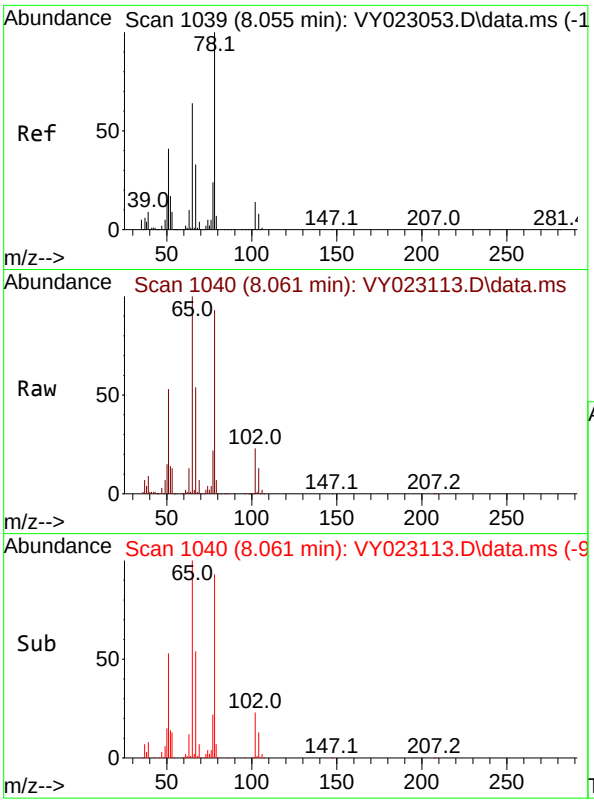


#32
1,1,1-Trichloroethane
Concen: 20.254 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 97 Resp: 157956

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.6	77.4
61	43.9	34.2	51.2



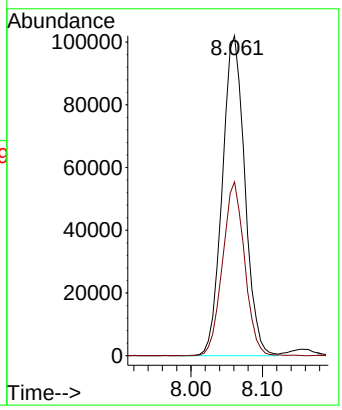


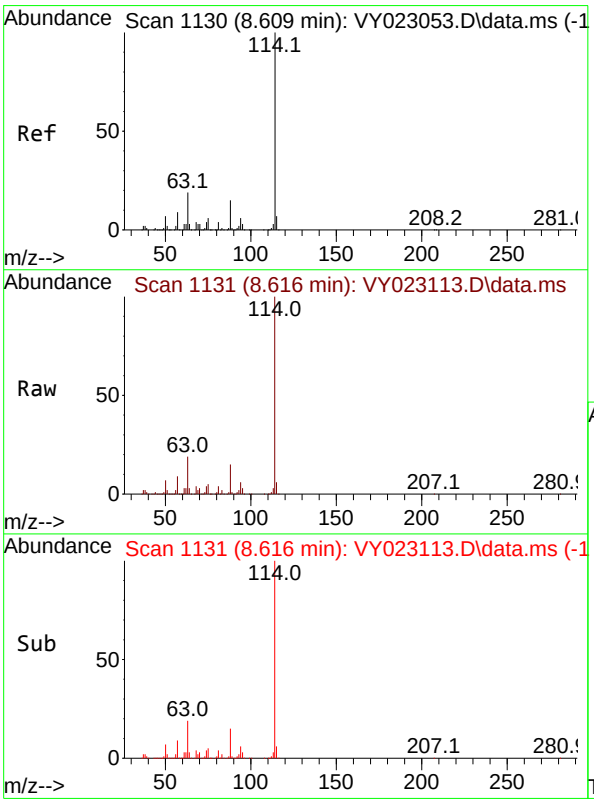
#33
1,2-Dichloroethane-d4
Concen: 51.692 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 65 Resp: 222883

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8

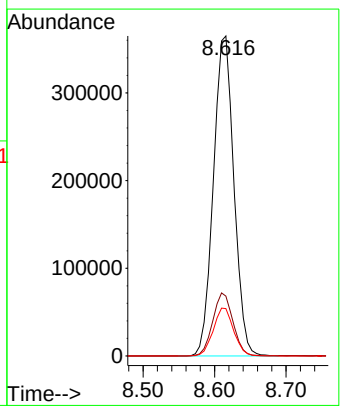


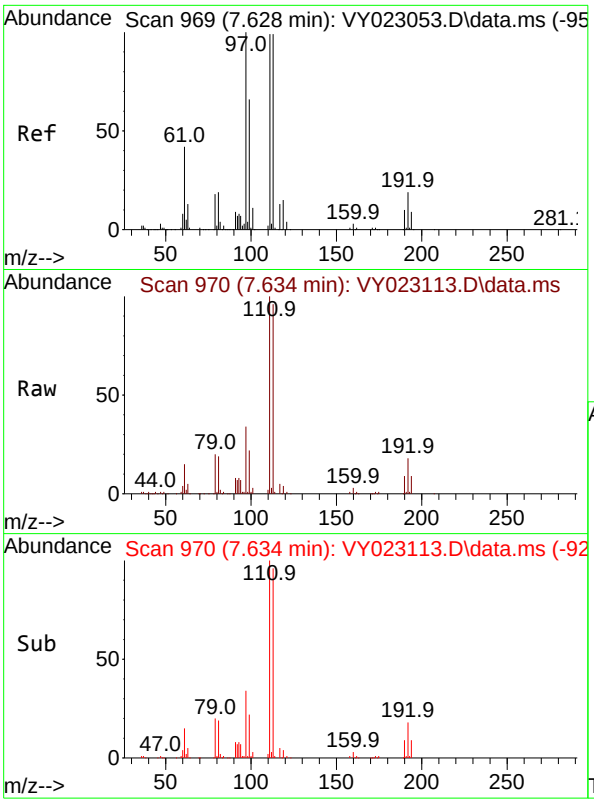


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:114 Resp: 727202

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	14.8	0.0	30.0



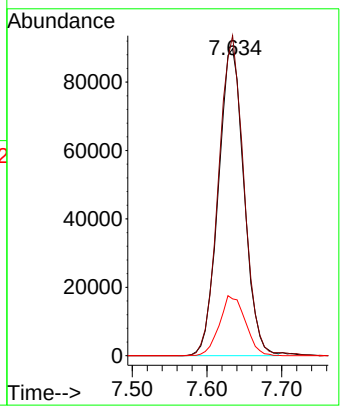


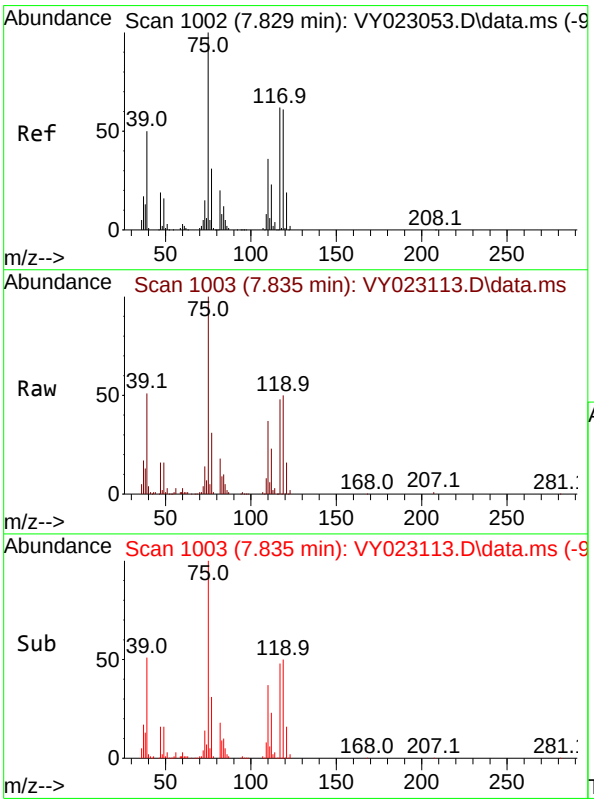
#35
Dibromofluoromethane
Concen: 49.314 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:113 Resp: 214583

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	19.7	16.2	24.4

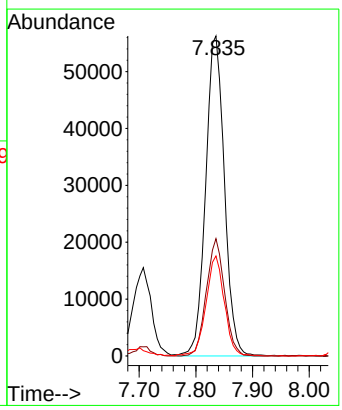


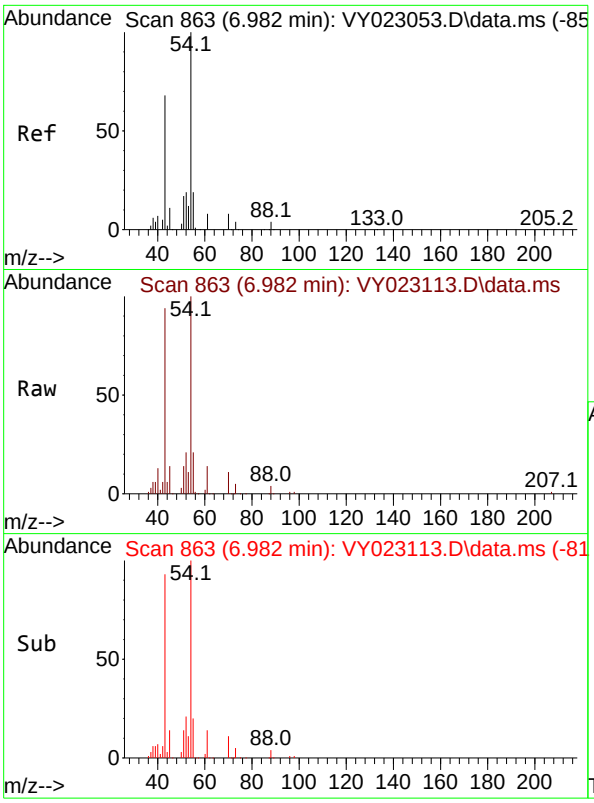


#36
1,1-Dichloropropene
Concen: 20.008 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 129384

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	30.5	24.6	37.0



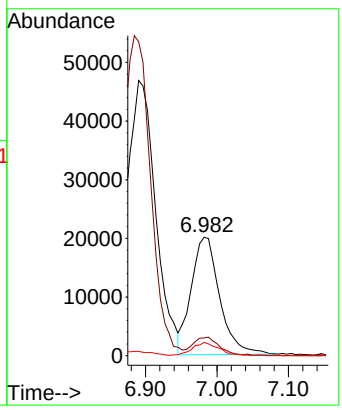


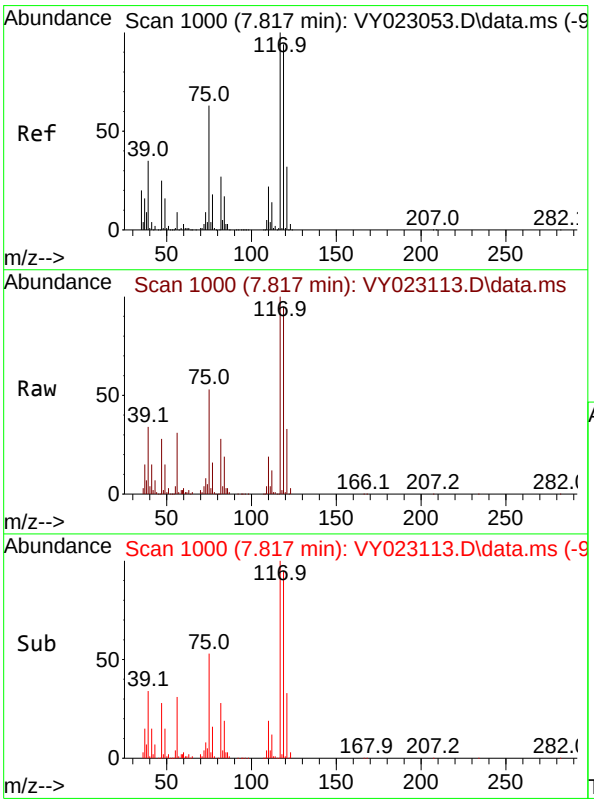
#37
Ethyl Acetate
Concen: 20.428 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 43 Resp: 55493

Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.9	17.9
70	10.5	8.8	13.2

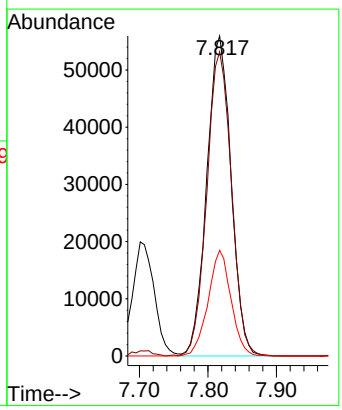


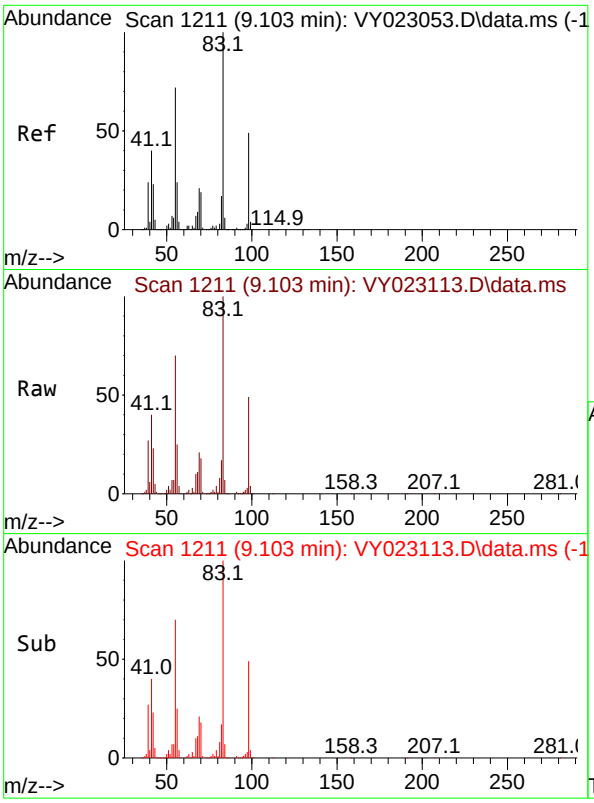


#38
Carbon Tetrachloride
Concen: 19.630 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:117 Resp: 137873

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.6	113.4
121	33.0	25.8	38.8



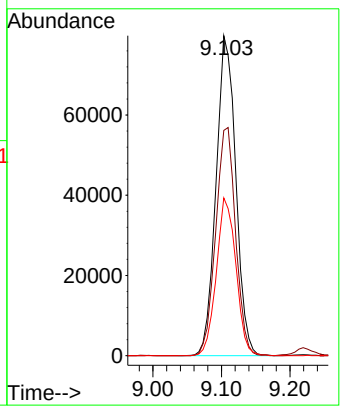


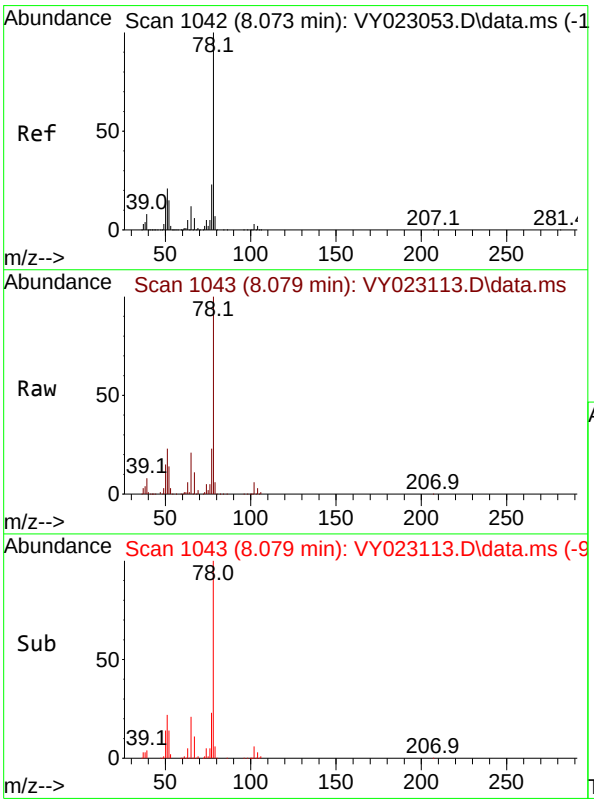
#39
Methylcyclohexane
Concen: 18.705 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 83 Resp: 159285

Ion	Ratio	Lower	Upper
83	100		
55	70.4	57.6	86.4
98	49.3	39.2	58.8

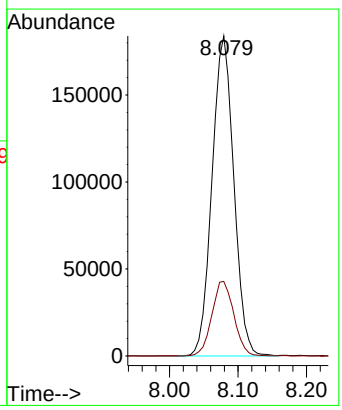


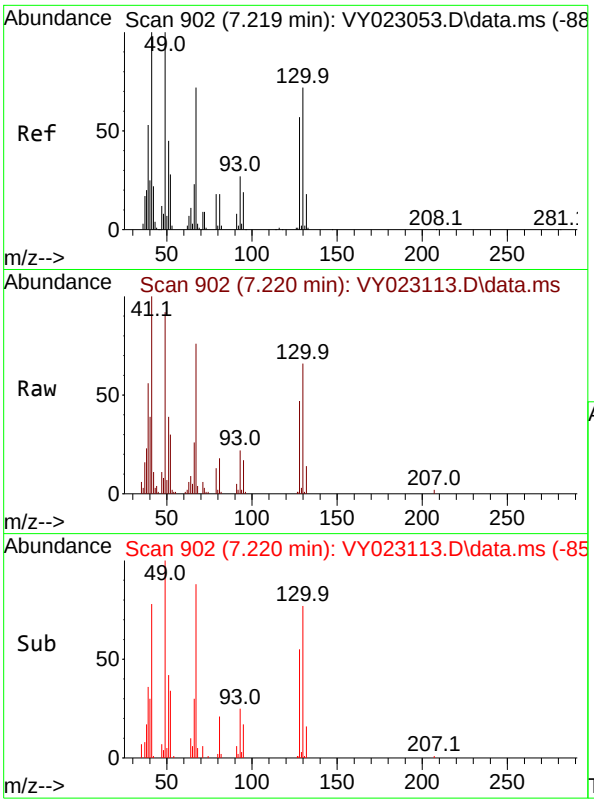


#40
Benzene
Concen: 20.350 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 78 Resp: 405603

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0



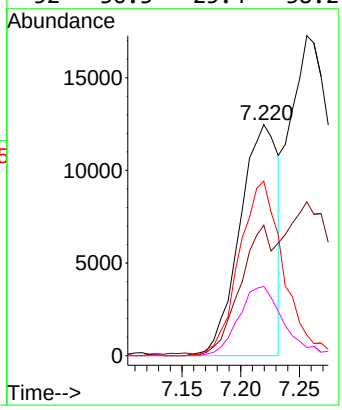


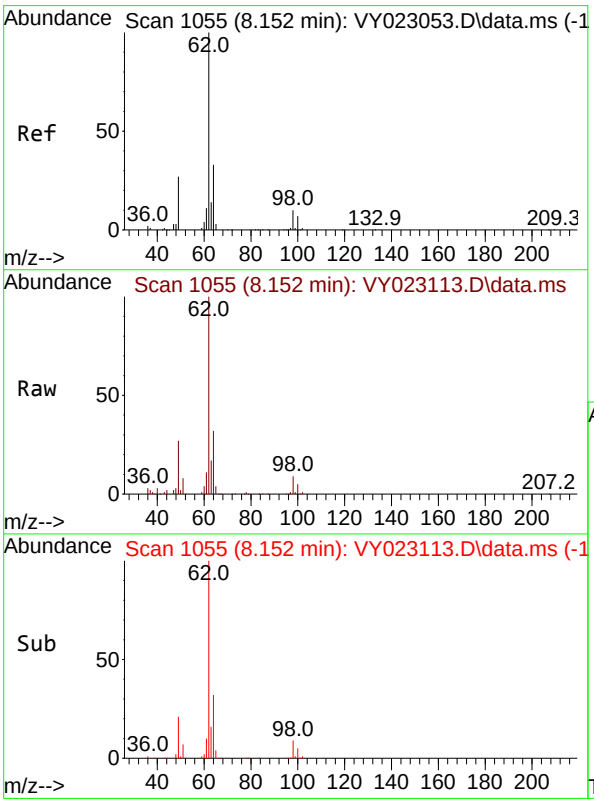
#41
Methacrylonitrile
Concen: 17.956 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 41 Resp: 28150

Ion	Ratio	Lower	Upper
41	100		
39	45.4	43.4	65.2
67	87.7	63.6	95.4
52	36.3	25.4	38.2

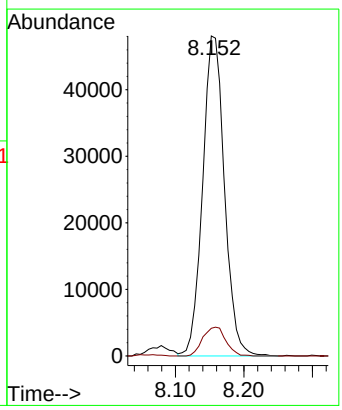


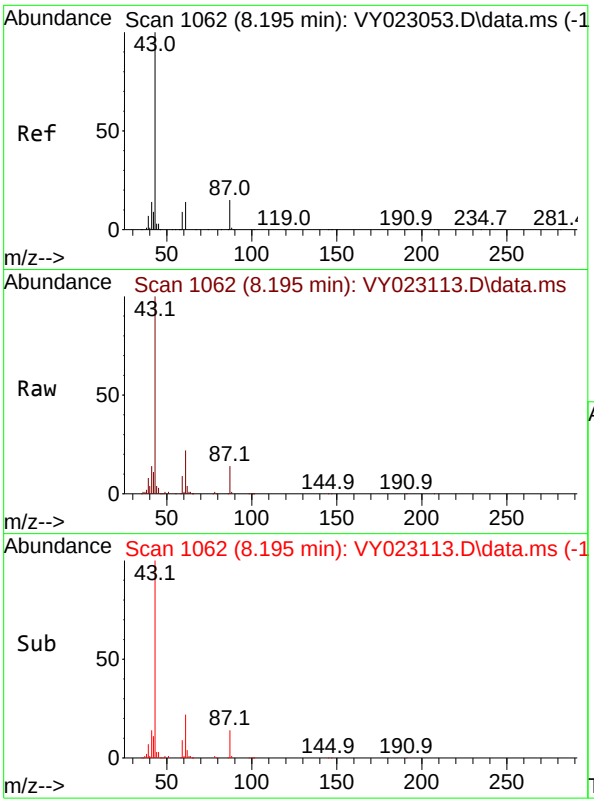


#42
1,2-Dichloroethane
Concen: 20.575 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 62 Resp: 106658

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	20.6



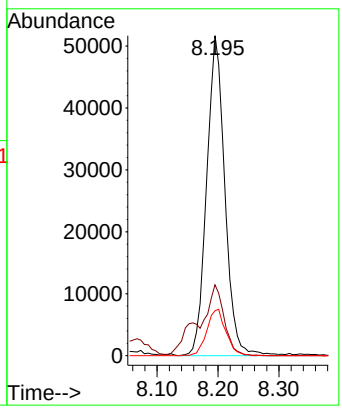


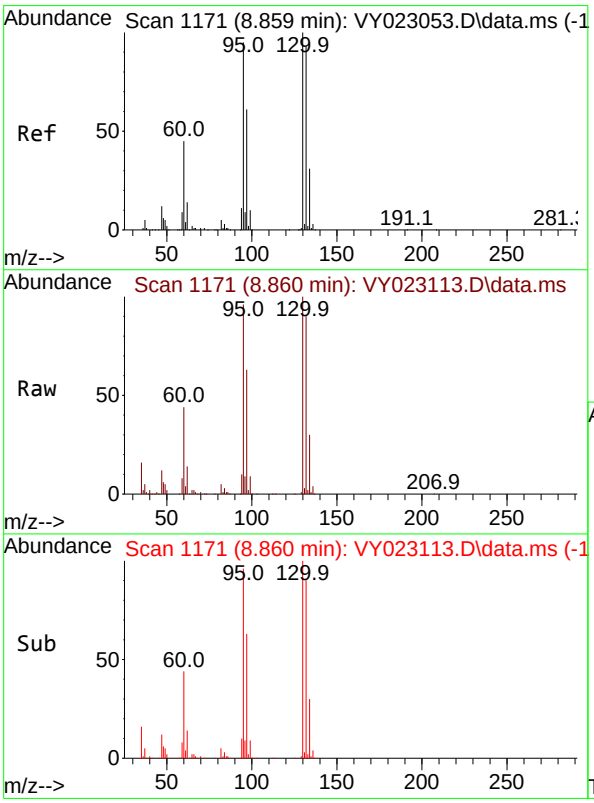
#43
Isopropyl Acetate
Concen: 19.551 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 43 Resp: 107344

Ion	Ratio	Lower	Upper
43	100		
61	20.7	16.4	24.6
87	15.2	11.8	17.6

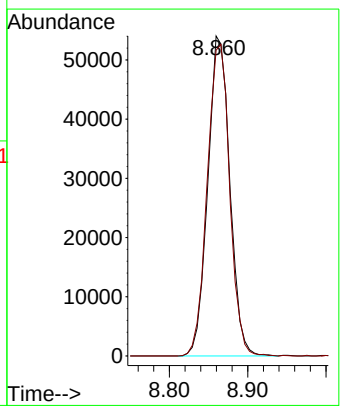


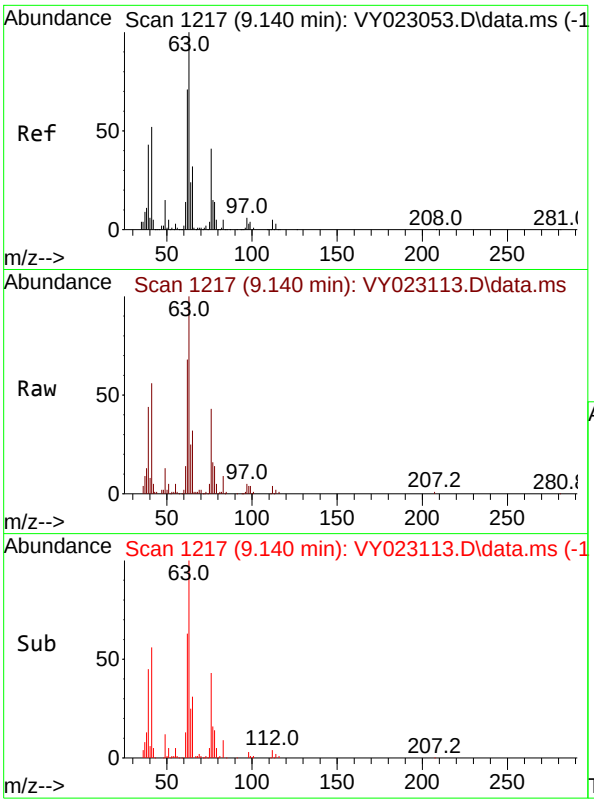


#44
Trichloroethene
Concen: 20.459 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:130 Resp: 105377

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	190.2



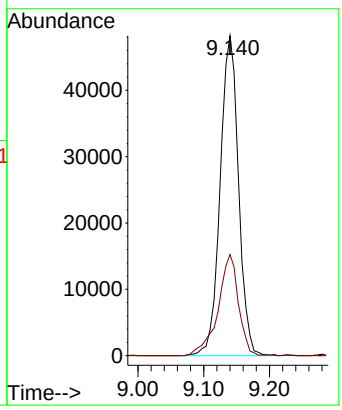


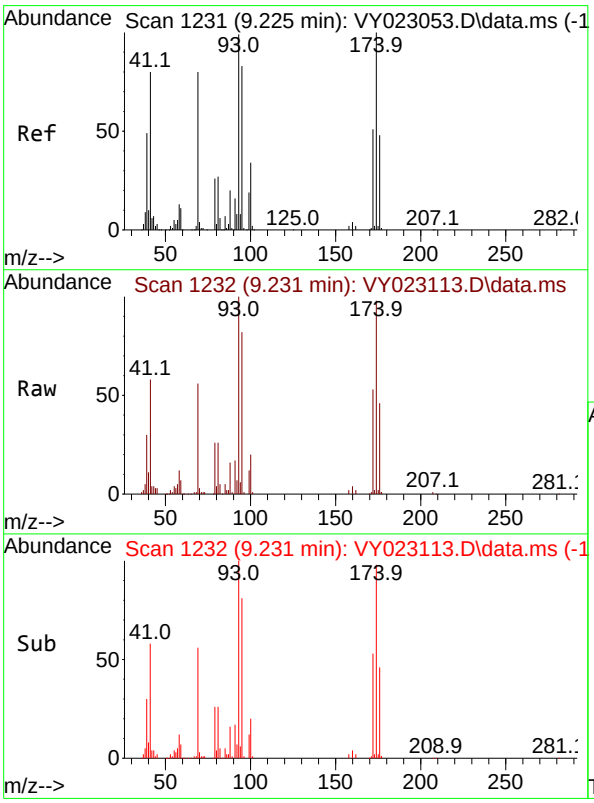
#45
1,2-Dichloropropane
Concen: 20.451 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 63 Resp: 93789

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9

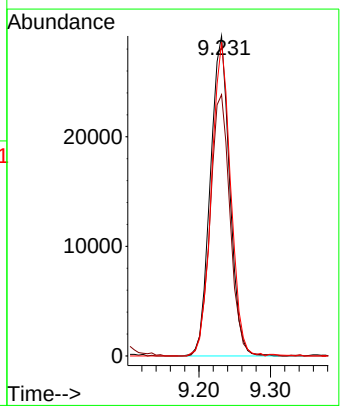


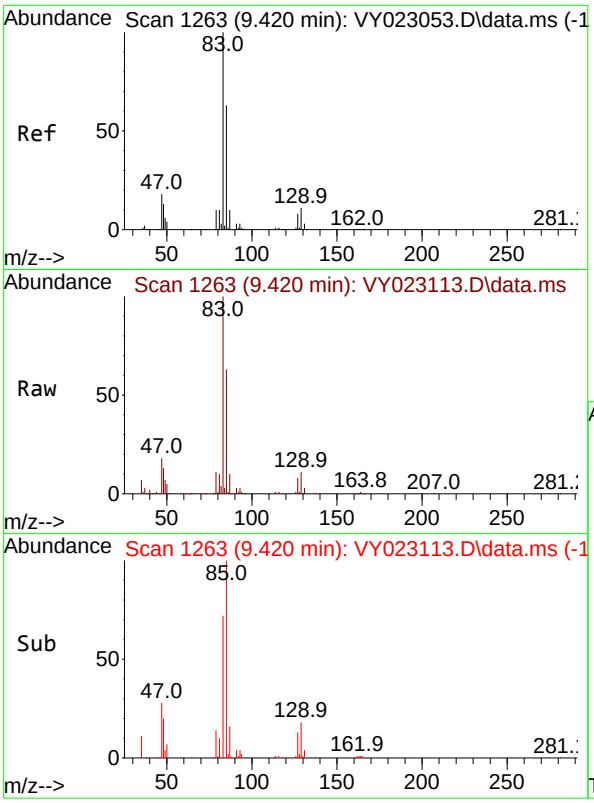


#46
Dibromomethane
Concen: 20.819 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 93 Resp: 54800

Ion	Ratio	Lower	Upper
93	100		
95	83.6	66.5	99.7
174	97.3	81.8	122.8



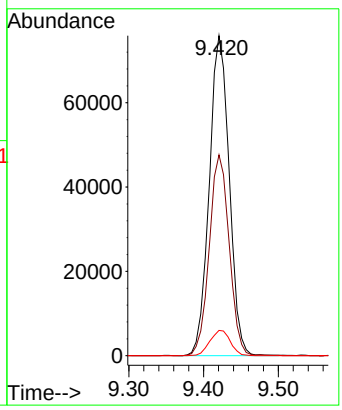


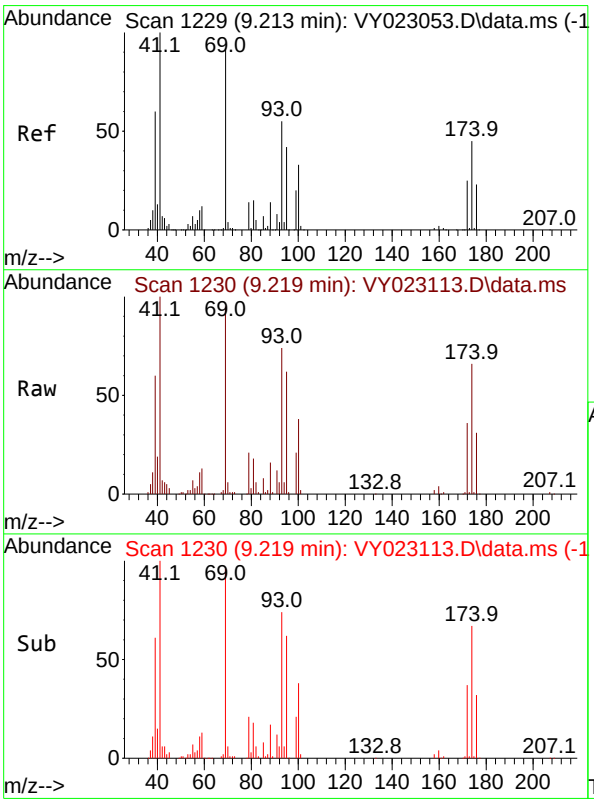
#47
Bromodichloromethane
Concen: 20.819 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 83 Resp: 141008

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.2	75.4
127	7.9	6.6	10.0

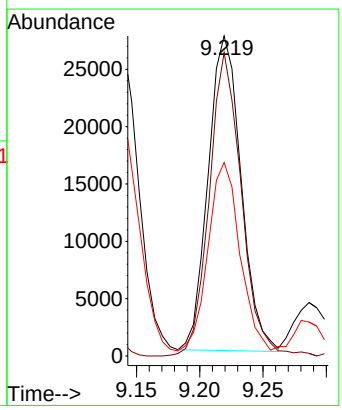


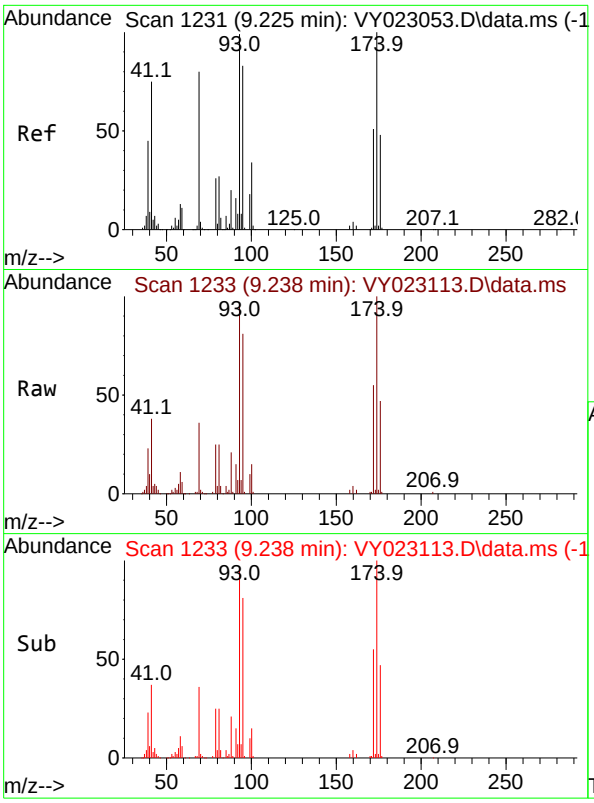


#48
Methyl methacrylate
Concen: 18.864 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 41 Resp: 49562

Ion	Ratio	Lower	Upper
41	100		
69	94.5	73.2	109.8
39	58.3	47.0	70.4



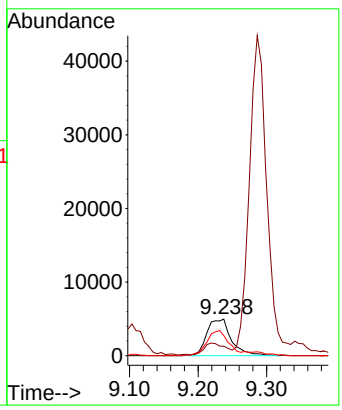


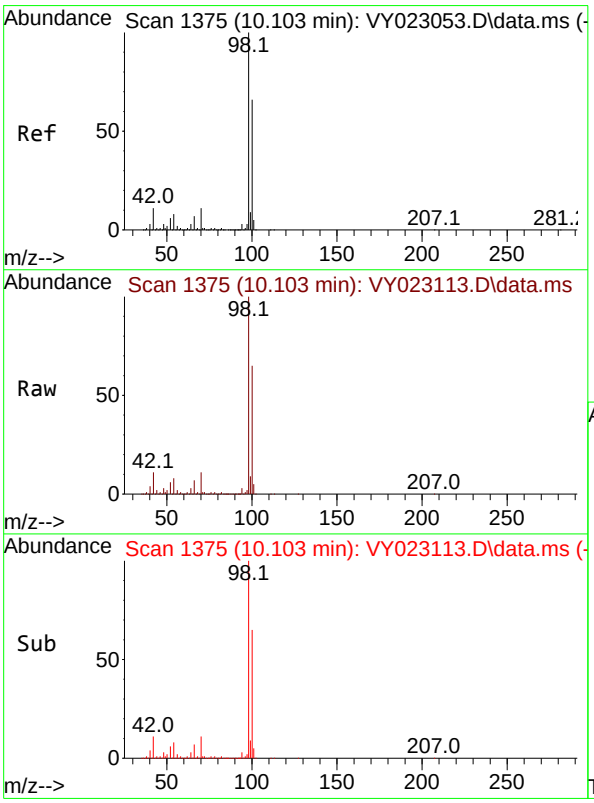
#49
1,4-Dioxane
Concen: 400.796 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 88 Resp: 12370

Ion	Ratio	Lower	Upper
88	100		
43	26.8	24.3	36.5
58	70.5	55.4	83.0

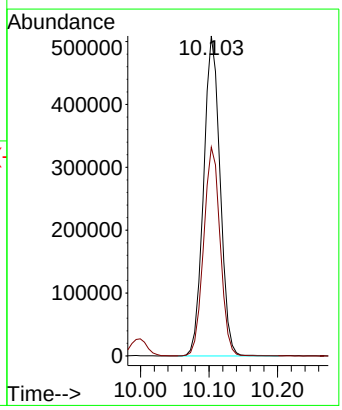


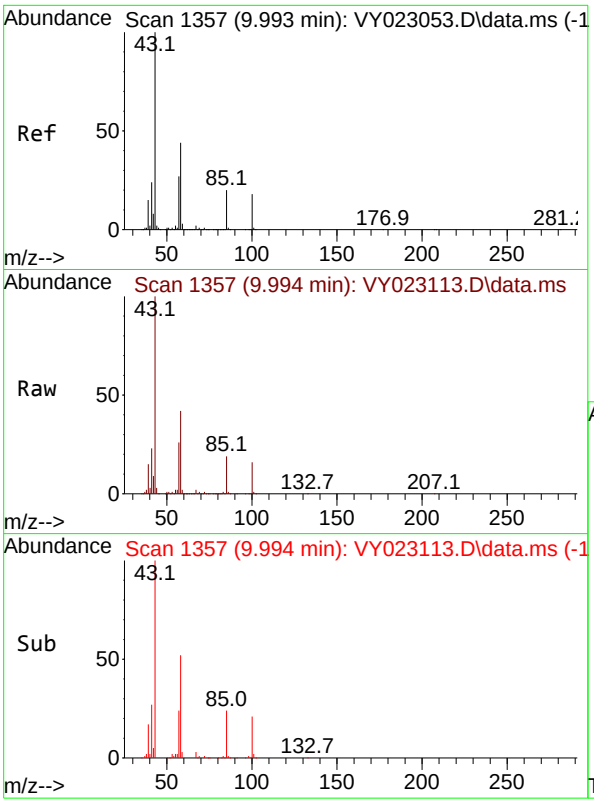


#50
Toluene-d8
Concen: 50.165 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 98 Resp: 852746

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5



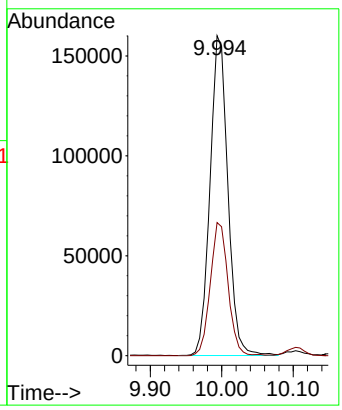


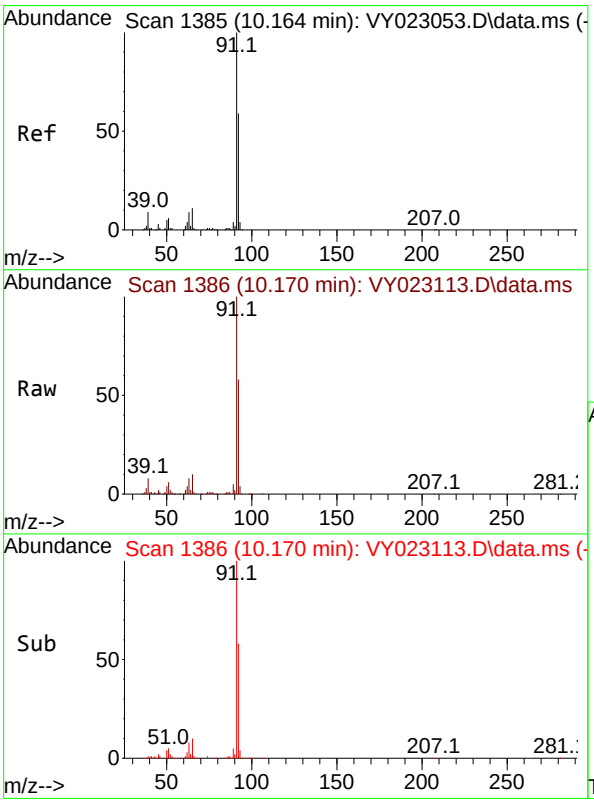
#51
4-Methyl-2-Pentanone
Concen: 97.864 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 43 Resp: 277163

Ion	Ratio	Lower	Upper
43	100		
58	41.6	33.5	50.3

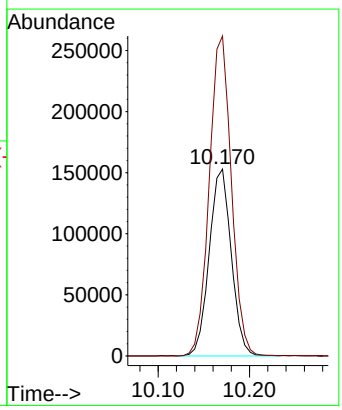


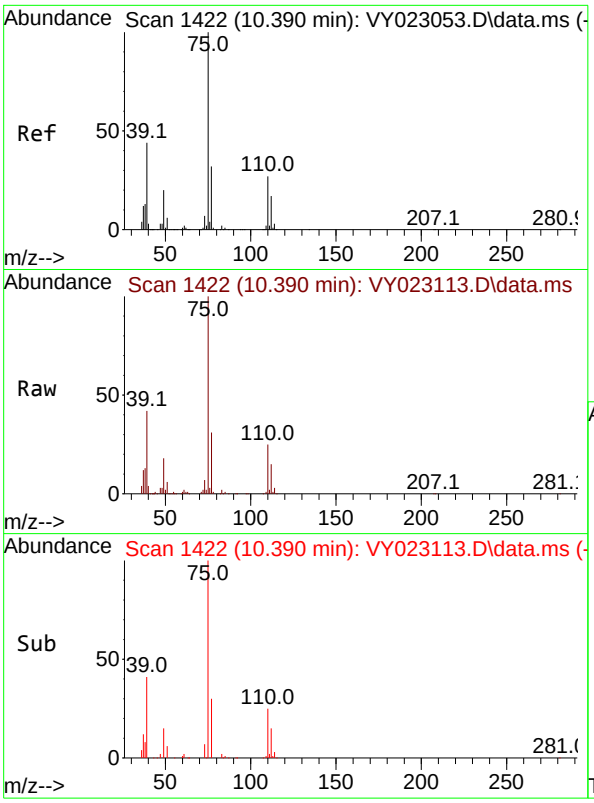


#52
Toluene
Concen: 20.201 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 92 Resp: 255717

Ion	Ratio	Lower	Upper
92	100		
91	172.1	136.4	204.6



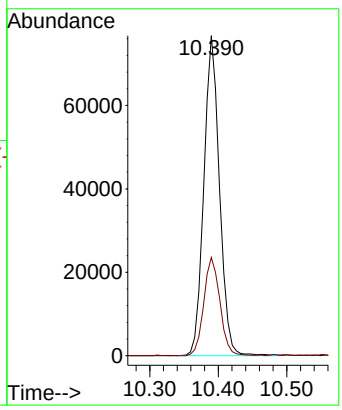


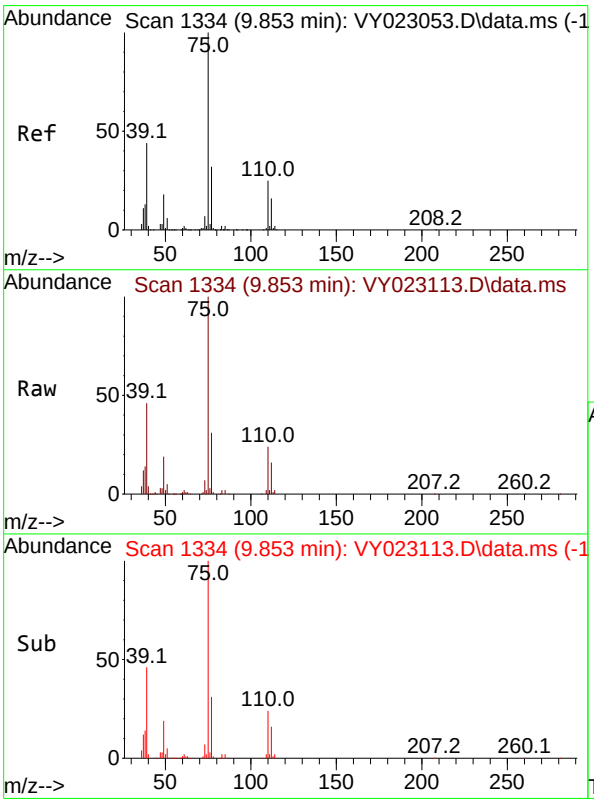
#53
t-1,3-Dichloropropene
Concen: 19.890 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 75 Resp: 121993

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.7	38.5

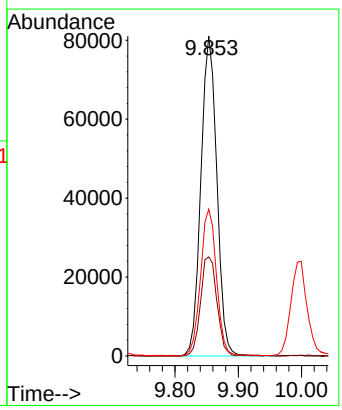


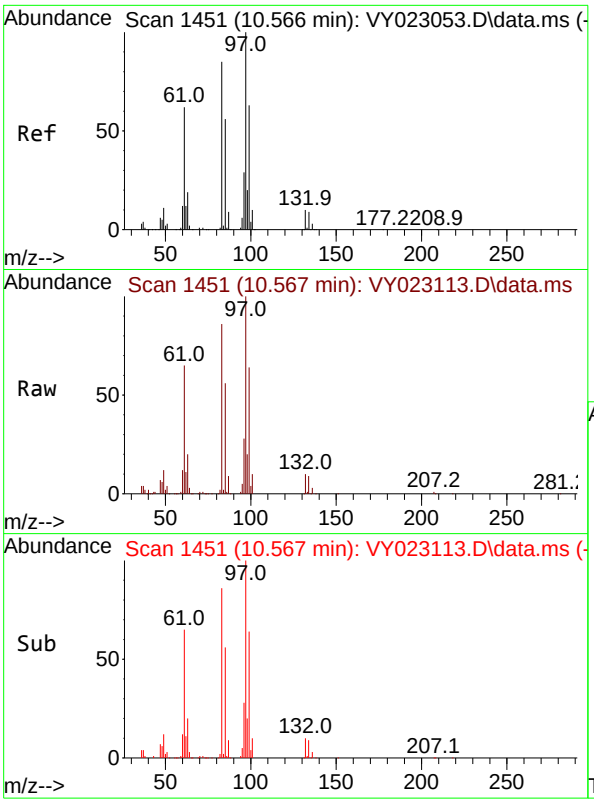


#54
cis-1,3-Dichloropropene
Concen: 19.623 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 142316

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.0
39	45.9	35.6	53.4



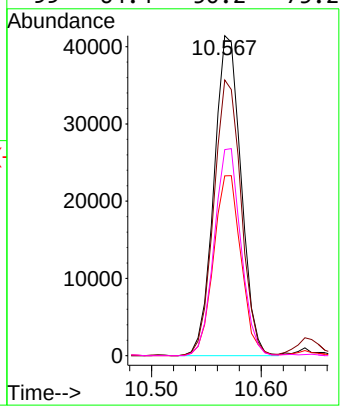


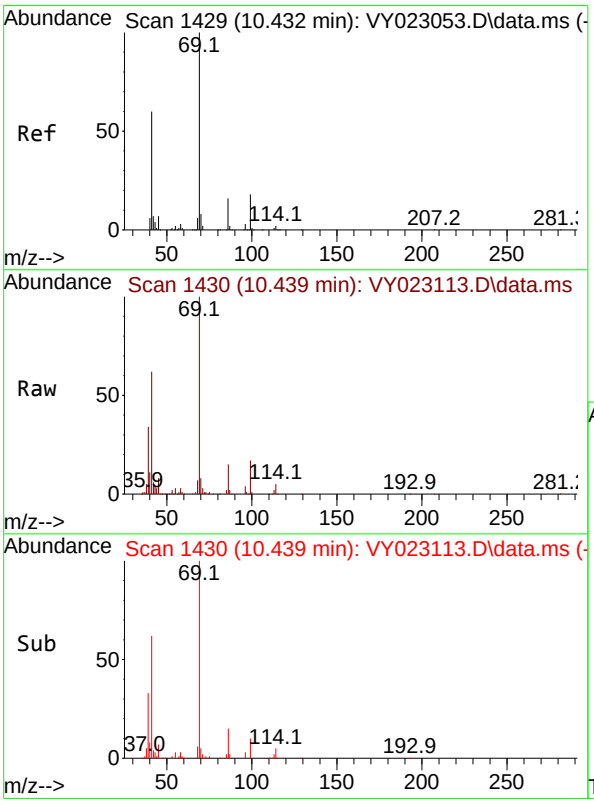
#55
1,1,2-Trichloroethane
Concen: 20.174 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 97 Resp: 71057

Ion	Ratio	Lower	Upper
97	100		
83	86.2	67.7	101.5
85	56.2	44.5	66.7
99	64.4	50.2	75.2

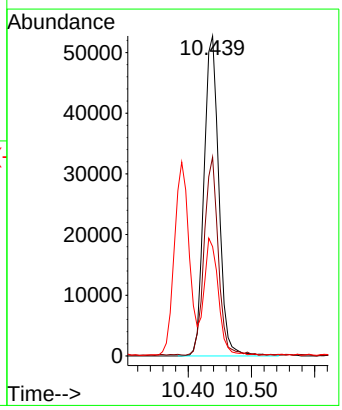


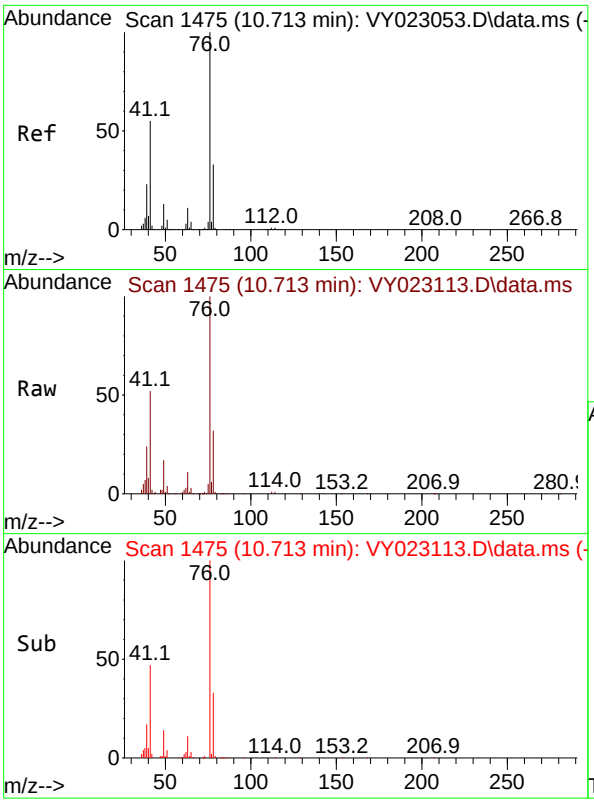


#56
Ethyl methacrylate
Concen: 19.173 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 69 Resp: 86412

Ion	Ratio	Lower	Upper
69	100		
41	59.0	48.6	72.8
39	34.9	27.0	40.4



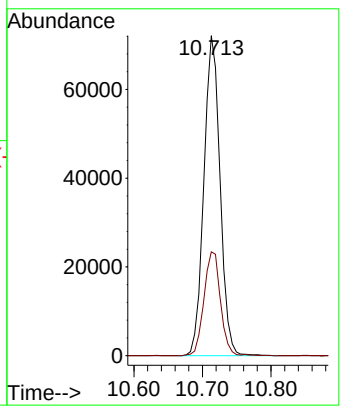


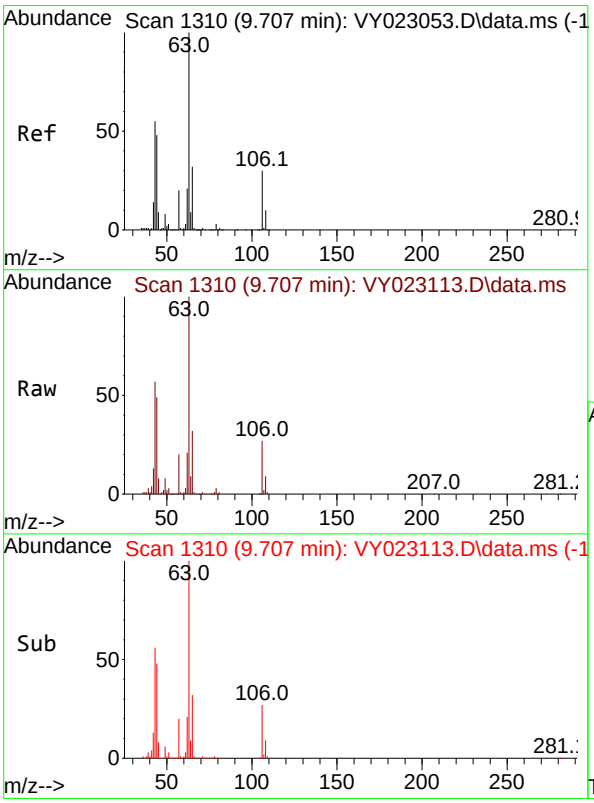
#57
1,3-Dichloropropane
Concen: 19.846 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 76 Resp: 118549

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.0	39.0

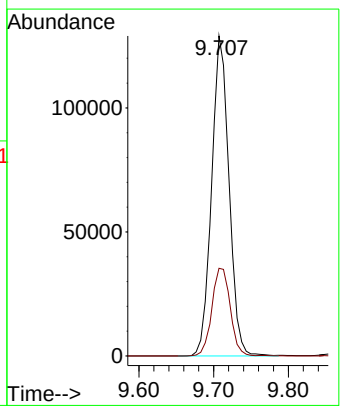


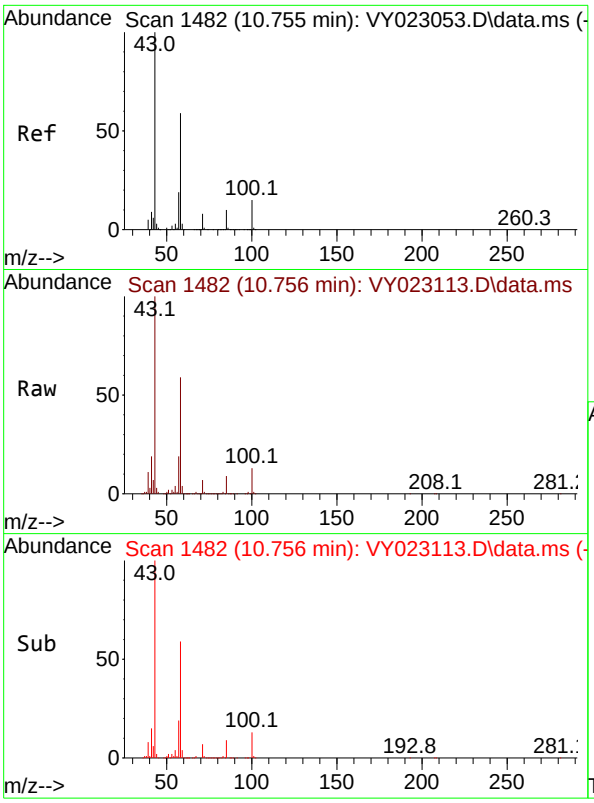


#58
2-Chloroethyl Vinyl ether
Concen: 98.106 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 63 Resp: 208567

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.2	34.8



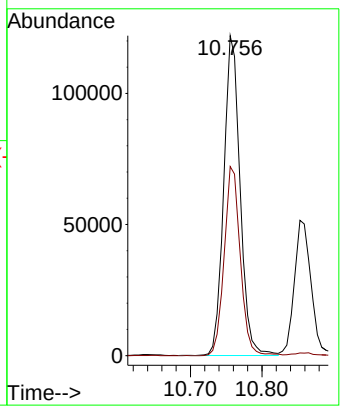


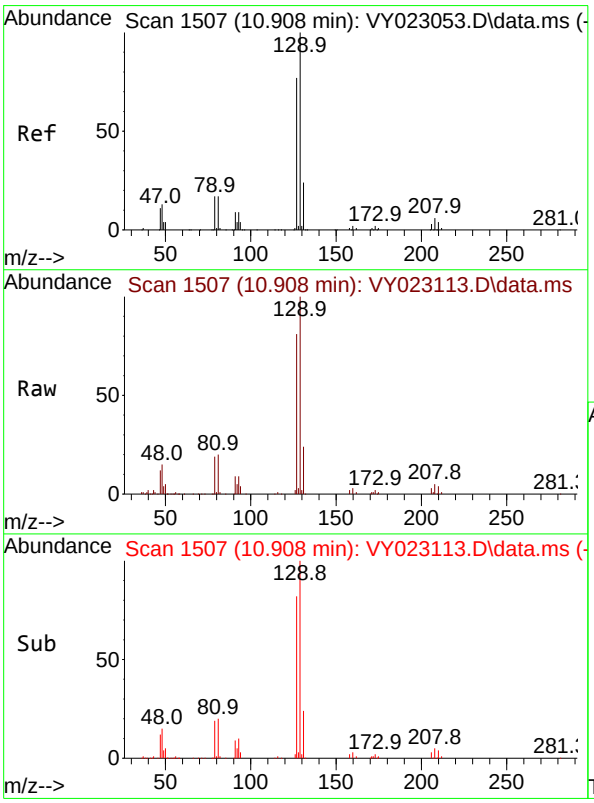
#59
2-Hexanone
Concen: 100.277 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 43 Resp: 193382

Ion	Ratio	Lower	Upper
43	100		
58	58.4	29.5	88.5

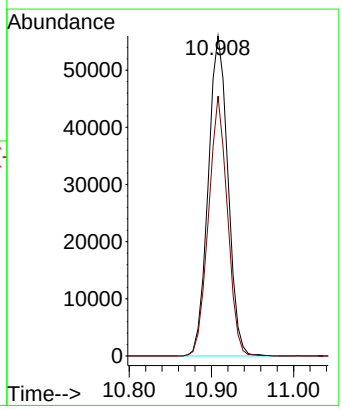


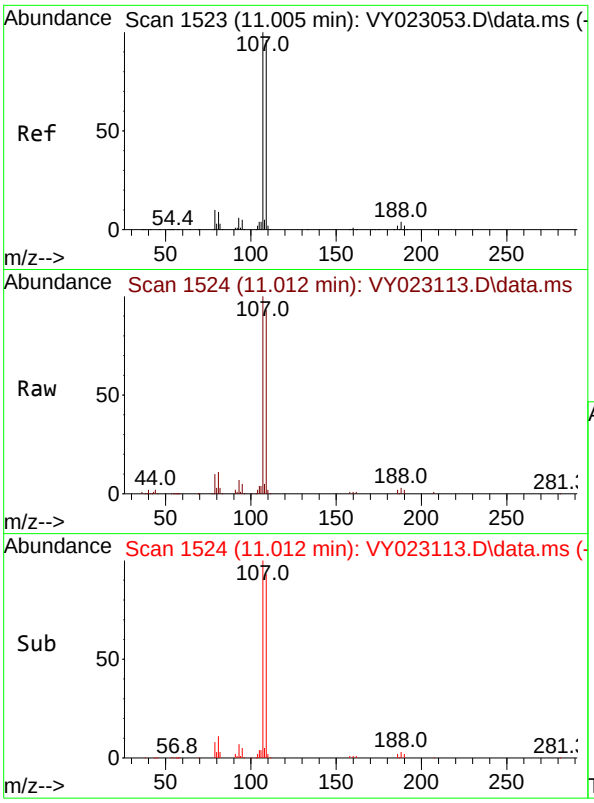


#60
Dibromochloromethane
Concen: 20.091 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:129 Resp: 93374

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.5	115.5



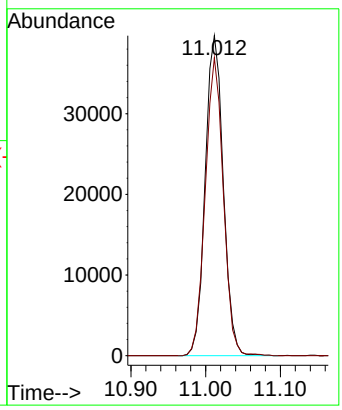


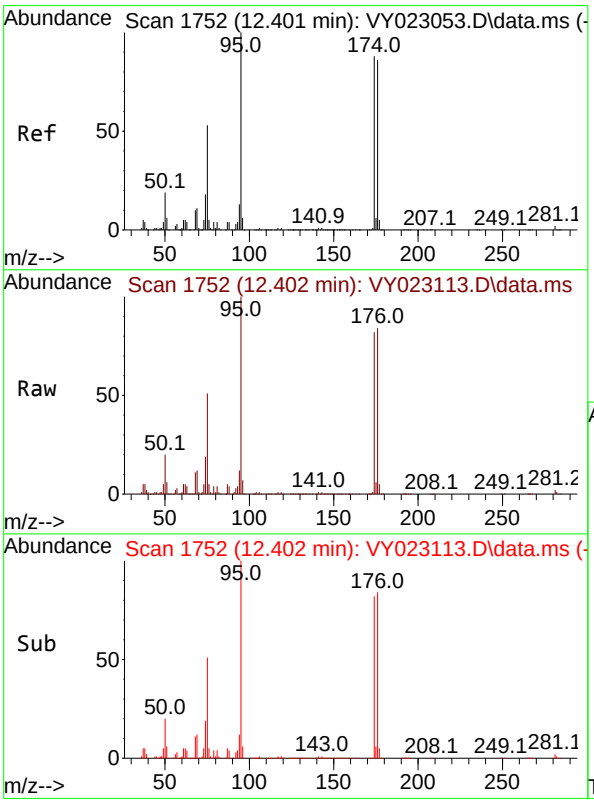
#61
1,2-Dibromoethane
Concen: 20.125 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:107 Resp: 66622

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.6	113.4

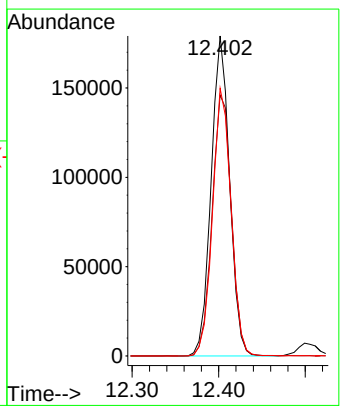


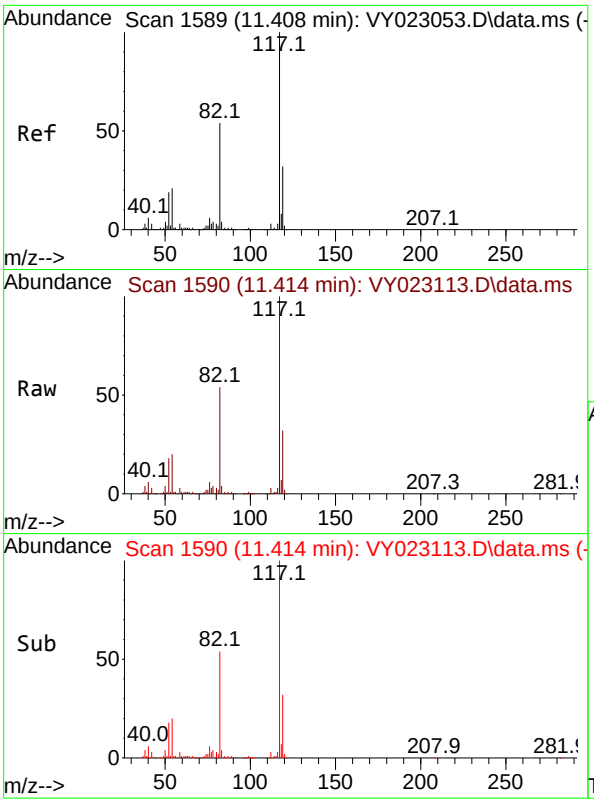


#62
4-Bromofluorobenzene
Concen: 48.547 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 95 Resp: 265399

Ion	Ratio	Lower	Upper
95	100		
174	85.3	0.0	171.6
176	83.8	0.0	167.6



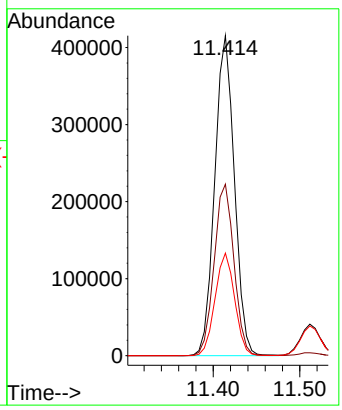


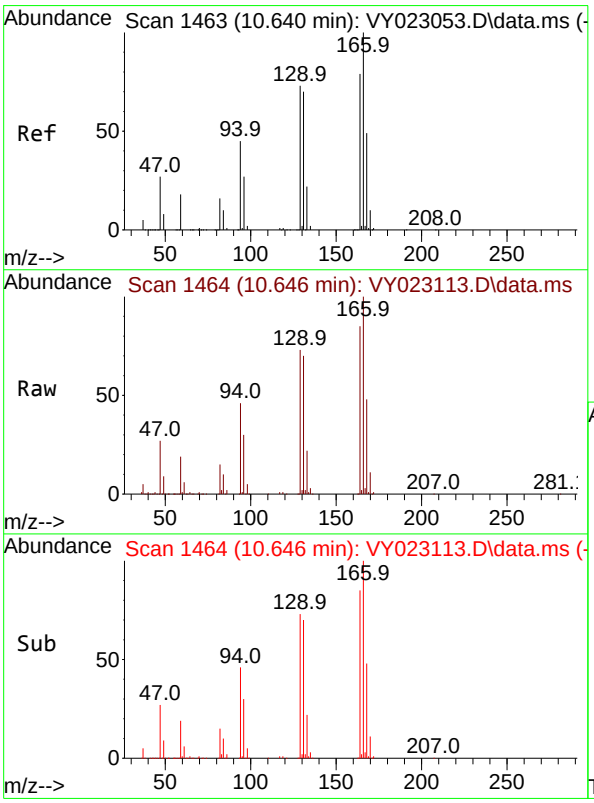
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:117 Resp: 654458

Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.0
119	32.1	25.6	38.4

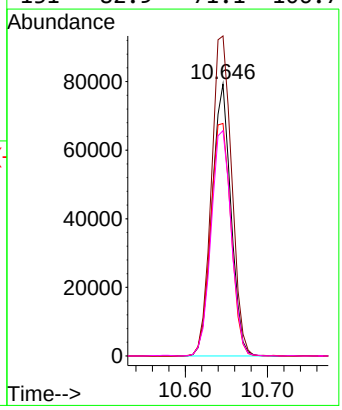


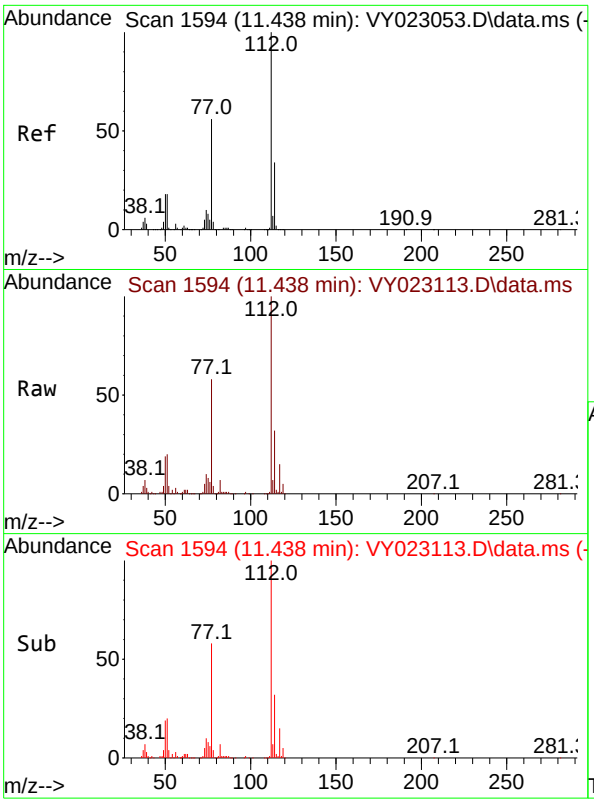


#64
Tetrachloroethene
Concen: 21.773 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:164 Resp: 127239

Ion	Ratio	Lower	Upper
164	100		
166	117.7	101.1	151.7
129	85.5	74.0	111.0
131	82.9	71.1	106.7



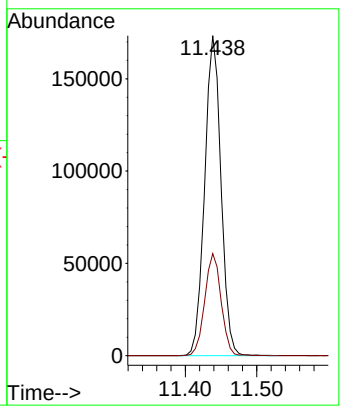


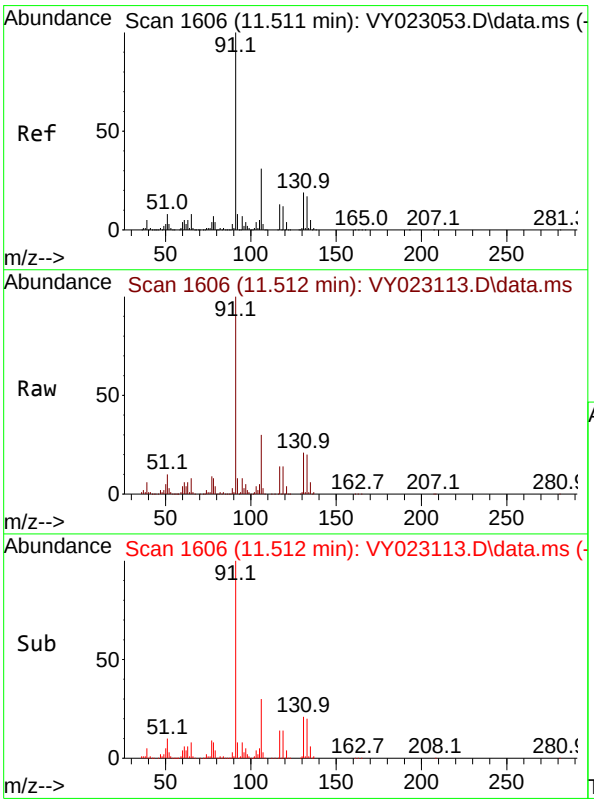
#65
Chlorobenzene
Concen: 19.453 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:112 Resp: 274616

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4

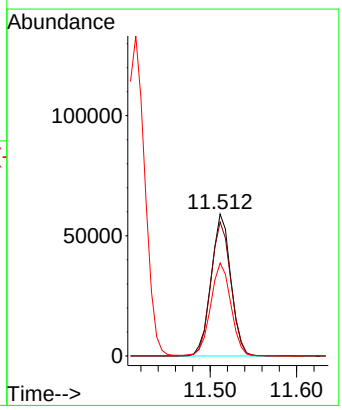


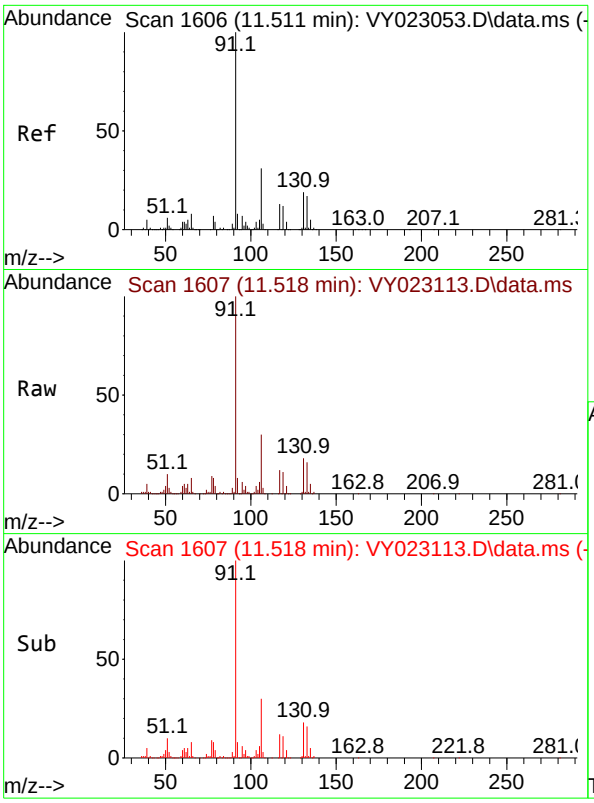


#66
1,1,1,2-Tetrachloroethane
Concen: 19.466 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:131 Resp: 93262

Ion	Ratio	Lower	Upper
131	100		
133	96.5	46.9	140.6
119	67.4	33.2	99.6



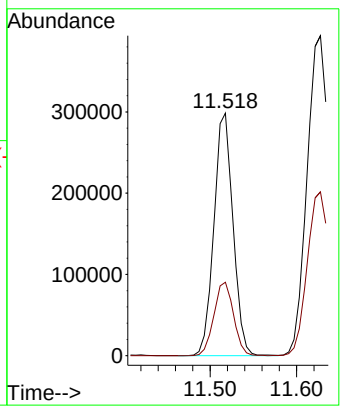


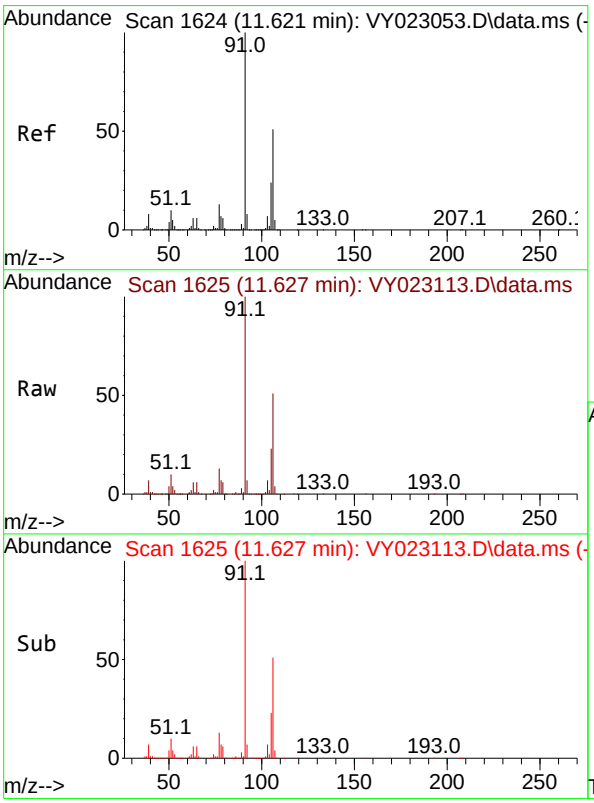
#67
Ethyl Benzene
Concen: 18.808 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 91 Resp: 456905

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.0	37.4

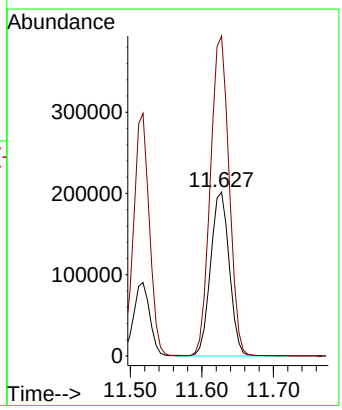


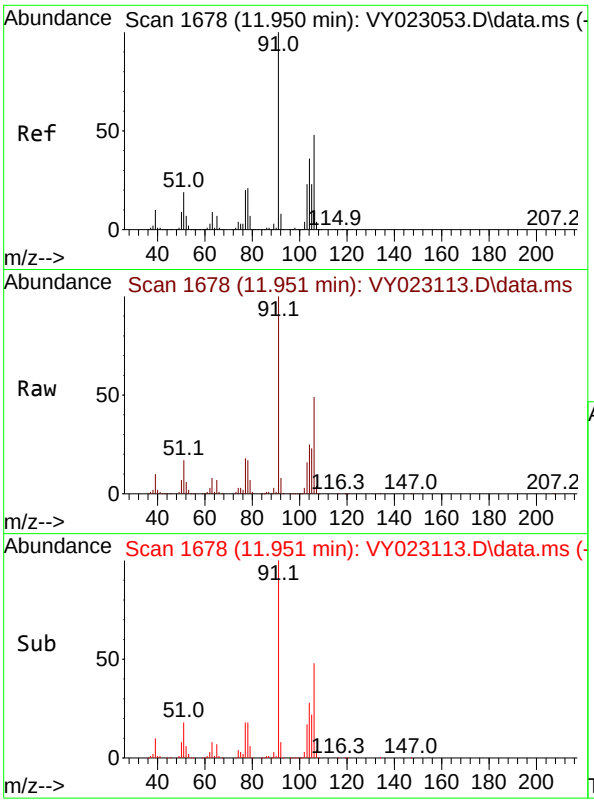


#68
m/p-Xylenes
Concen: 38.555 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:106 Resp: 365819

Ion	Ratio	Lower	Upper
106	100		
91	195.9	158.6	238.0



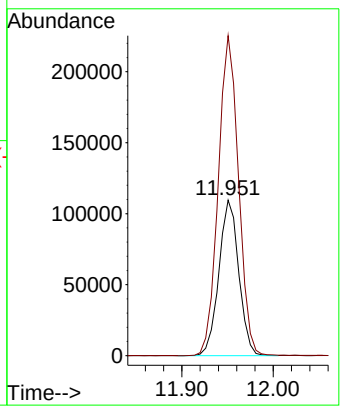


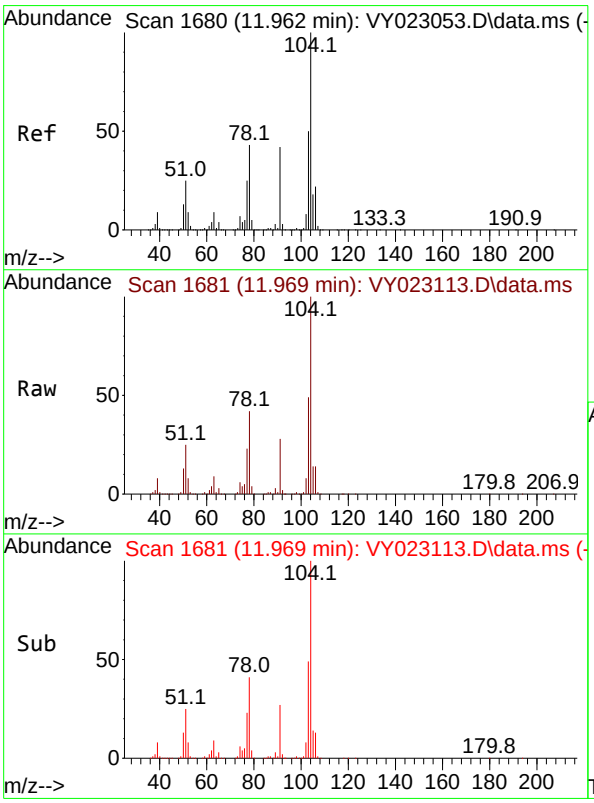
#69
o-Xylene
Concen: 18.648 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:106 Resp: 165713

Ion	Ratio	Lower	Upper
106	100		
91	210.1	103.2	309.4

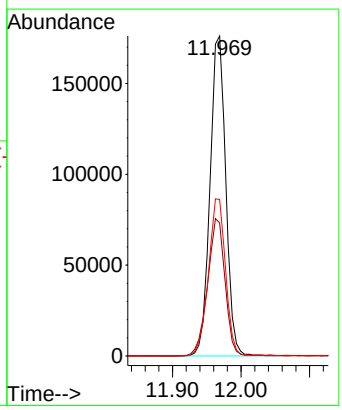


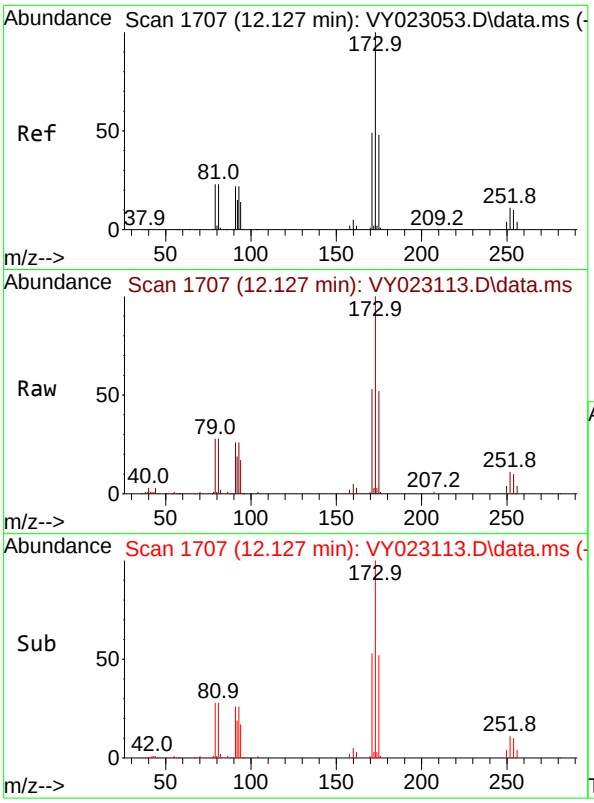


#70
Styrene
Concen: 19.385 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:104 Resp: 281721

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.5	57.7
103	53.4	43.7	65.5



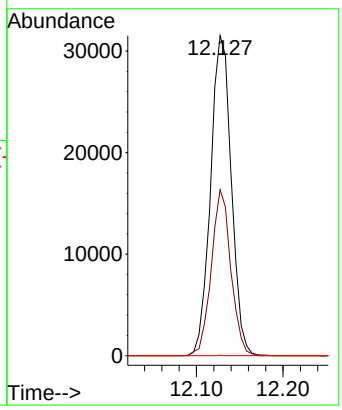


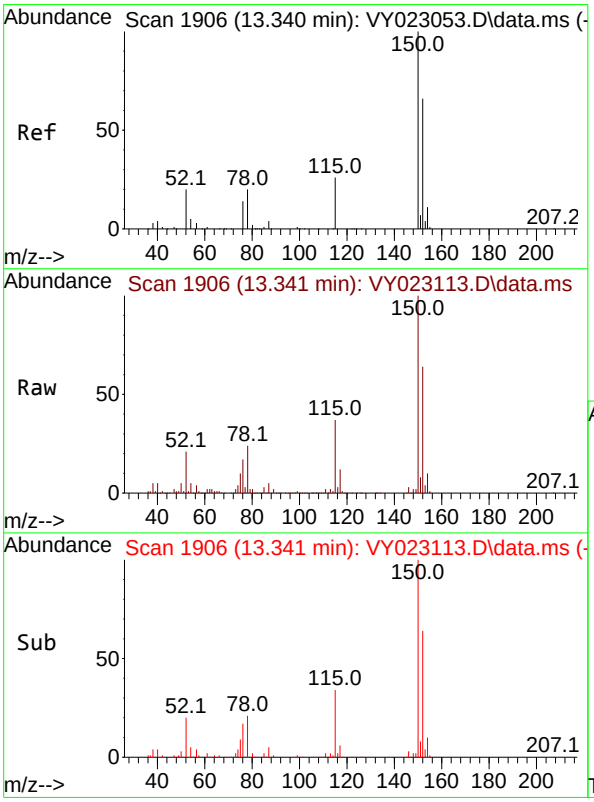
#71
Bromoform
Concen: 18.687 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:173 Resp: 52326

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.0	0.1	0.1#

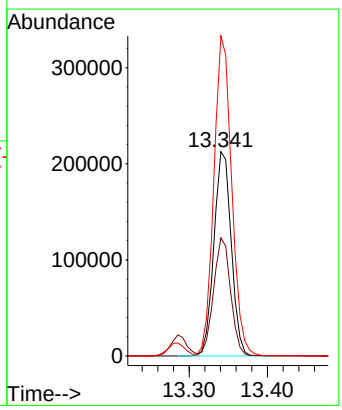


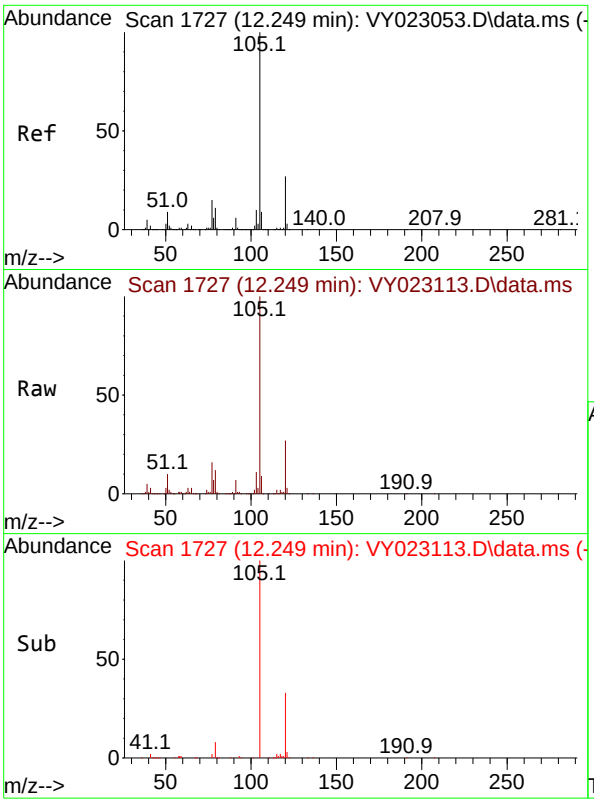


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.341 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:152 Resp: 327154

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.2	84.6
150	161.2	0.0	348.0



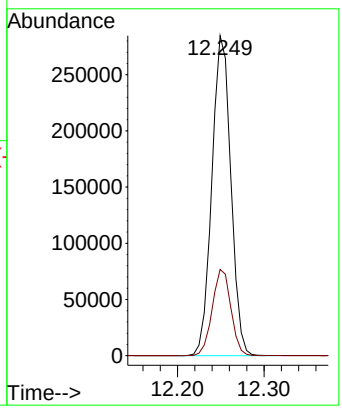


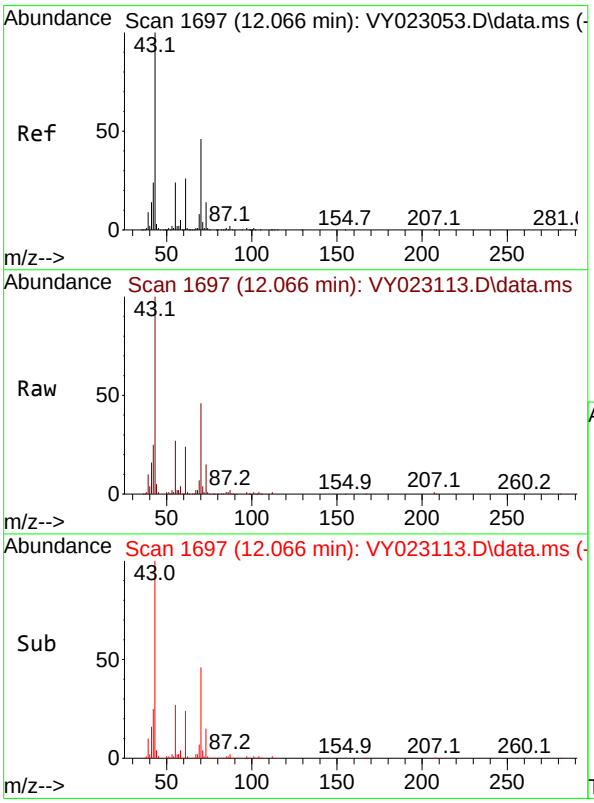
#73
Isopropylbenzene
Concen: 18.755 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:105 Resp: 433053

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.4	40.2

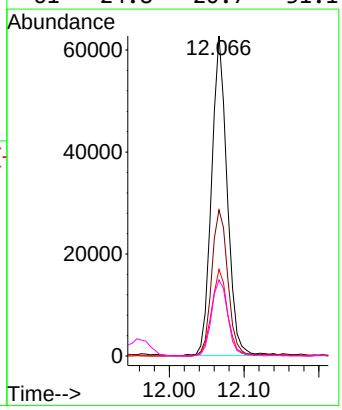


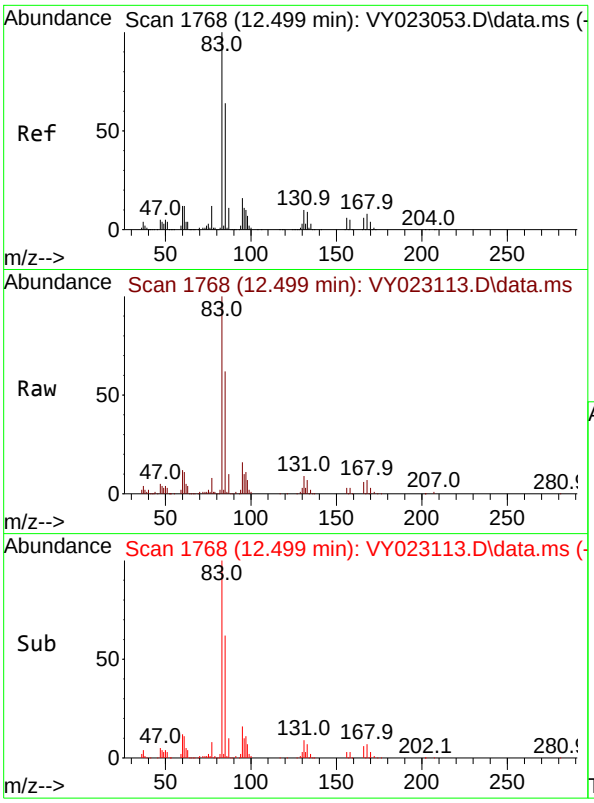


#74
N-amyl acetate
Concen: 18.605 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 43 Resp: 91104

Ion	Ratio	Lower	Upper
43	100		
70	47.9	37.5	56.3
55	27.6	20.7	31.1
61	24.8	20.7	31.1



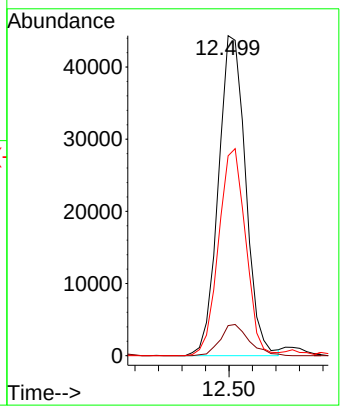


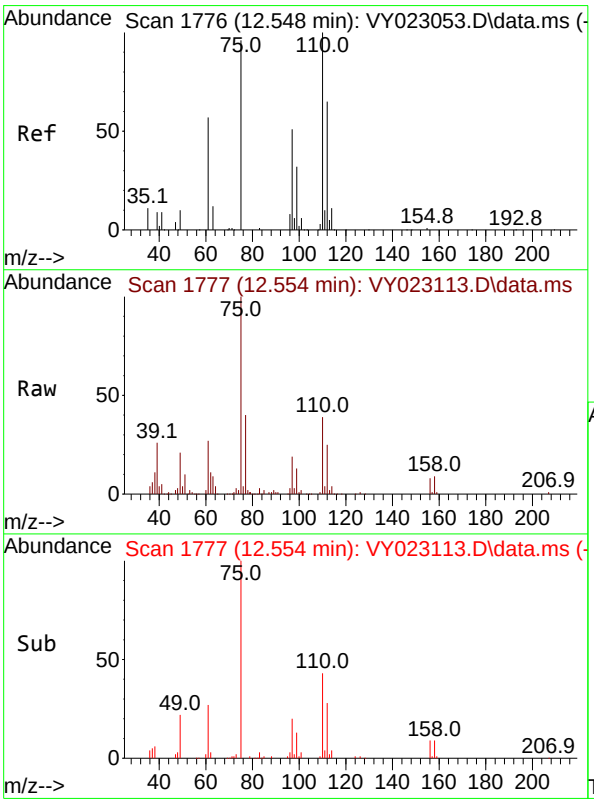
#75
1,1,2,2-Tetrachloroethane
Concen: 18.110 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 83 Resp: 71400

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.3	31.8	95.3

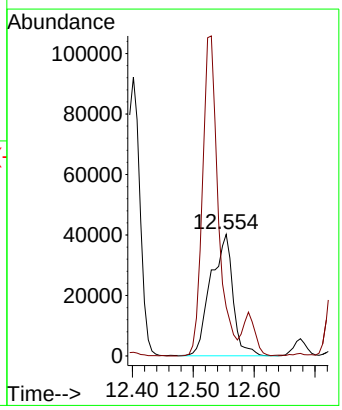


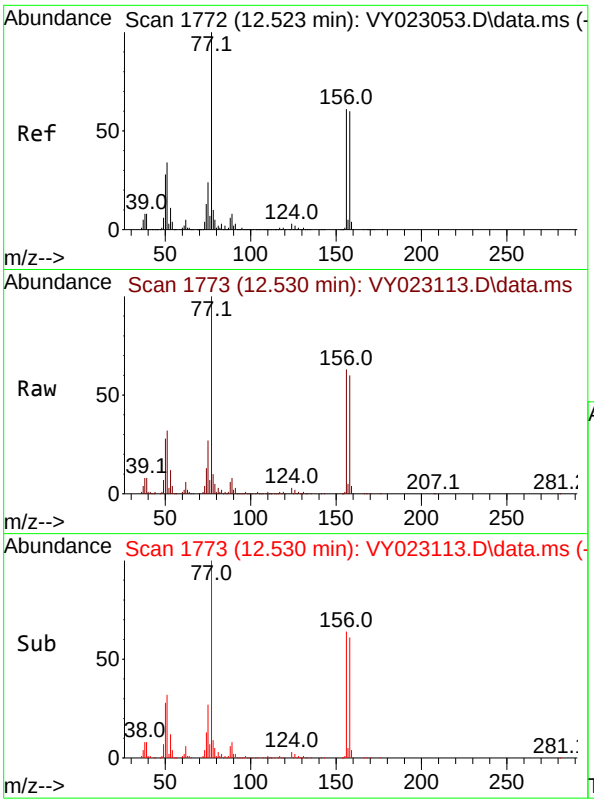


#76
1,2,3-Trichloropropane
Concen: 32.129 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 101444

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



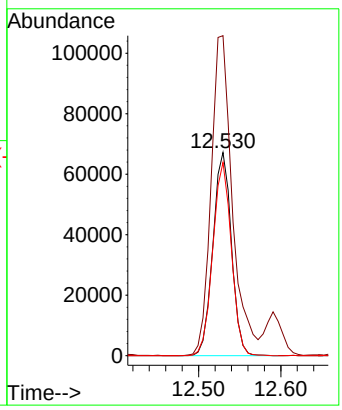


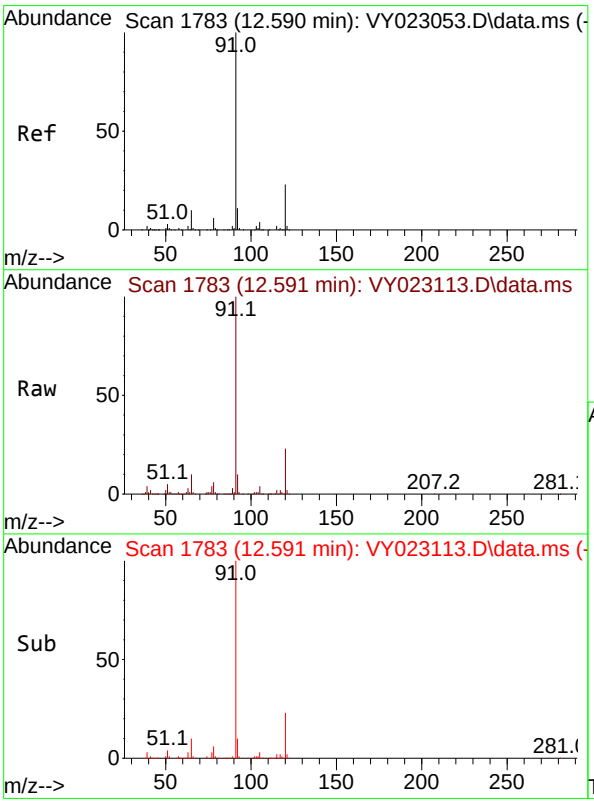
#77
Bromobenzene
Concen: 19.006 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:156 Resp: 104694

Ion	Ratio	Lower	Upper
156	100		
77	181.4	88.1	264.4
158	95.4	48.0	144.0

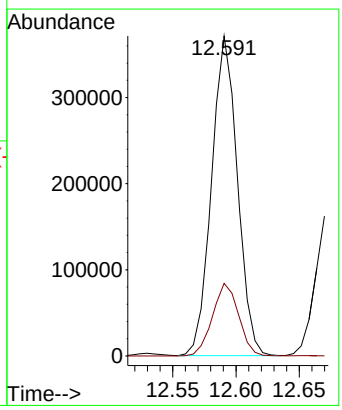


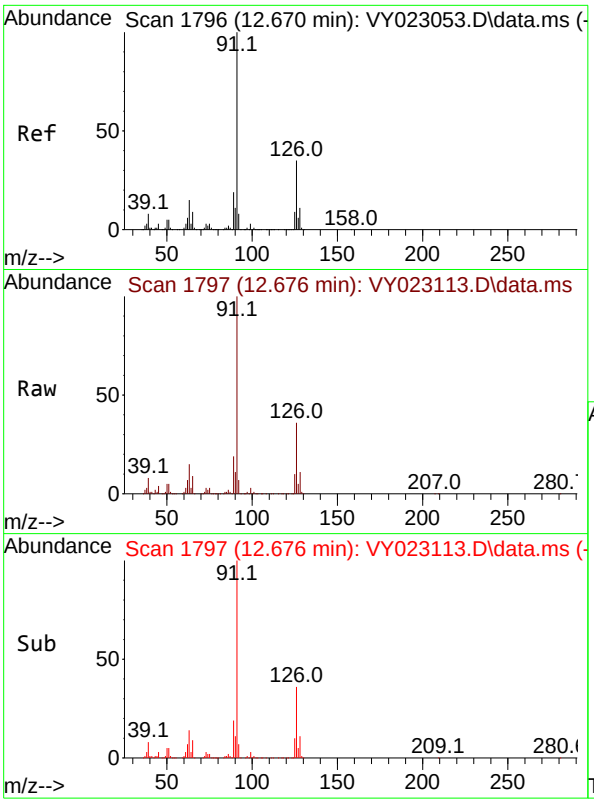


#78
n-propylbenzene
Concen: 19.204 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 527930

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



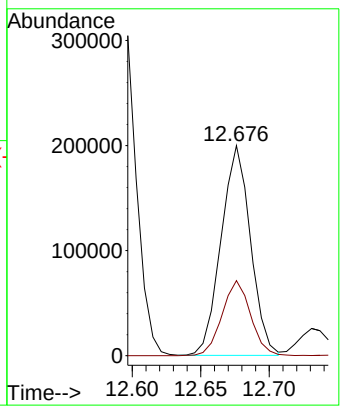


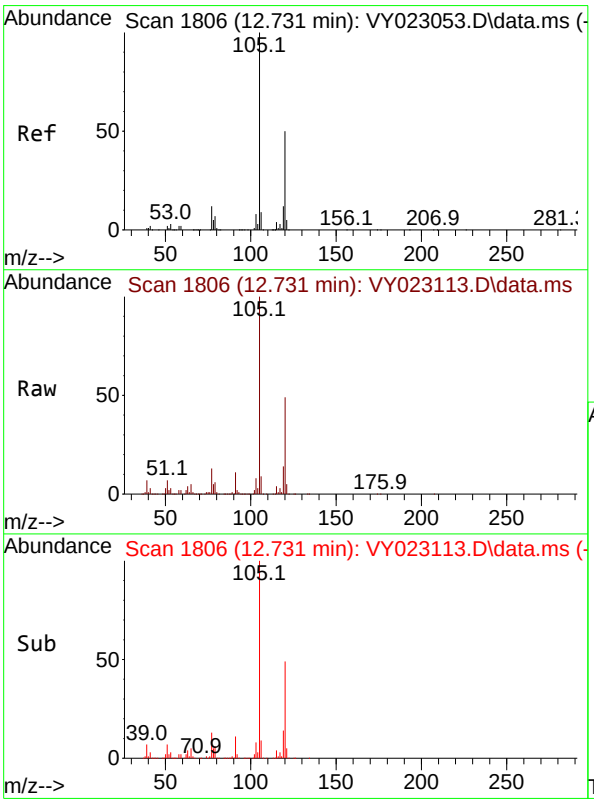
#79
2-Chlorotoluene
Concen: 18.946 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 91 Resp: 298409

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

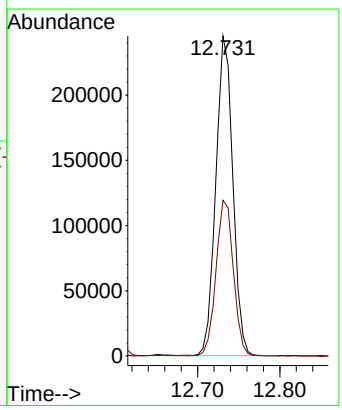


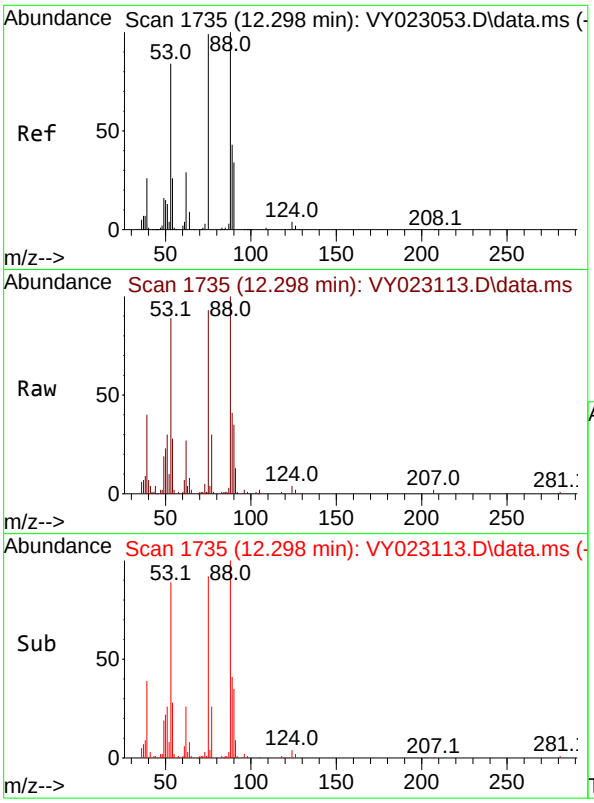


#80
1,3,5-Trimethylbenzene
Concen: 18.850 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:105 Resp: 351759

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.8	74.4



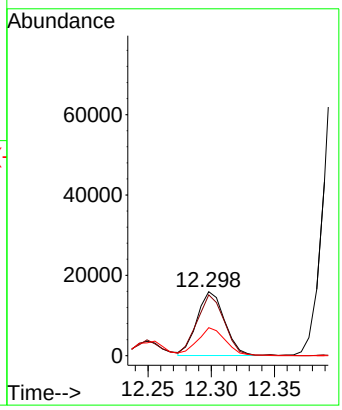


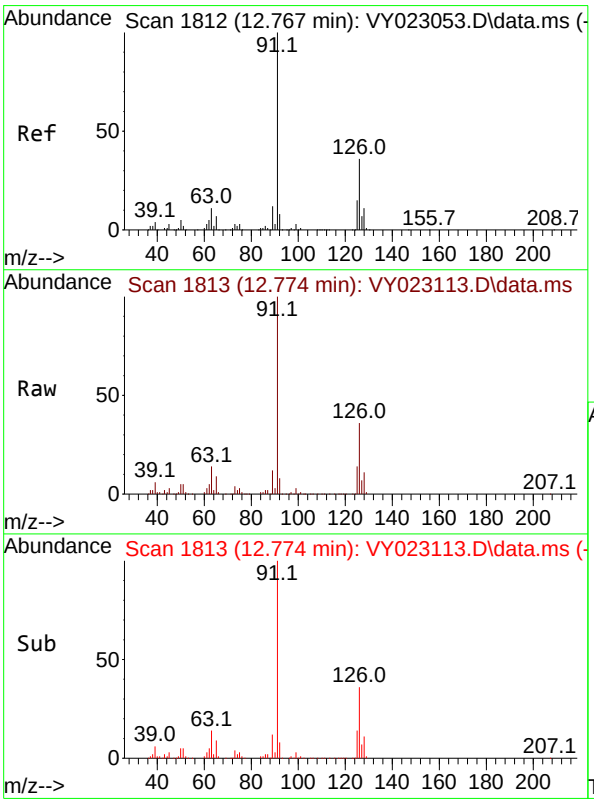
#81
trans-1,4-Dichloro-2-butene
Concen: 18.524 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 75 Resp: 24161

Ion	Ratio	Lower	Upper
75	100		
53	92.8	70.8	106.2
89	44.7	38.1	57.1

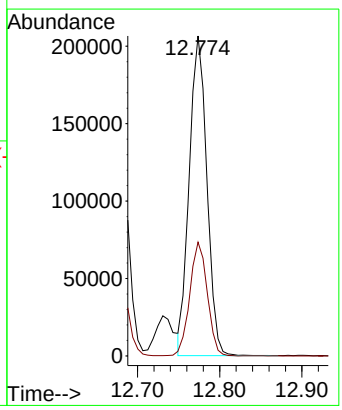


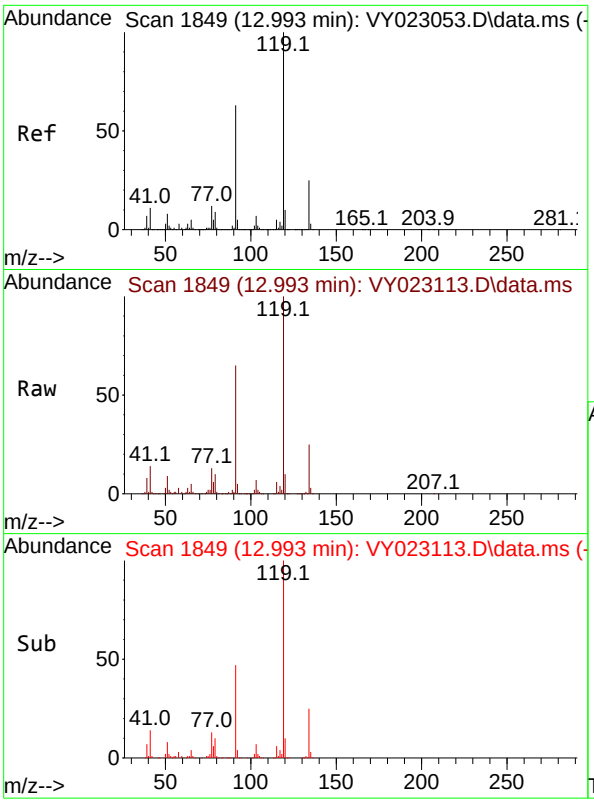


#82
4-Chlorotoluene
Concen: 18.799 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 91 Resp: 307174

Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.3	52.0



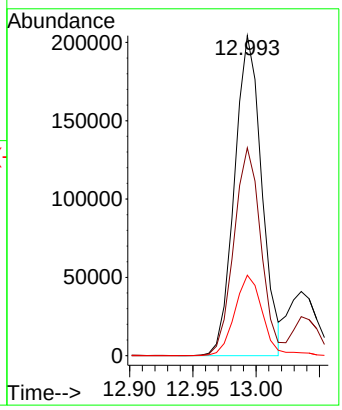


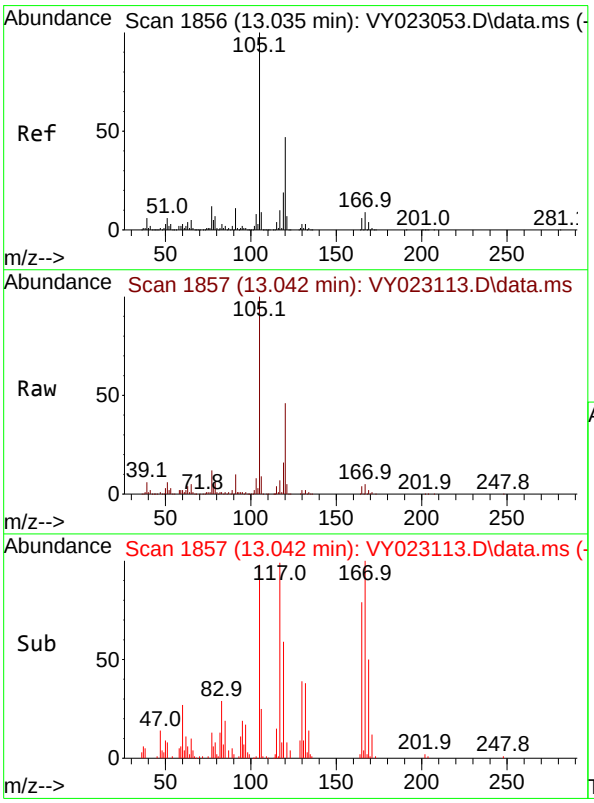
#83
tert-Butylbenzene
Concen: 18.153 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:119 Resp: 305956

Ion	Ratio	Lower	Upper
119	100		
91	65.3	31.6	94.8
134	25.9	12.9	38.7

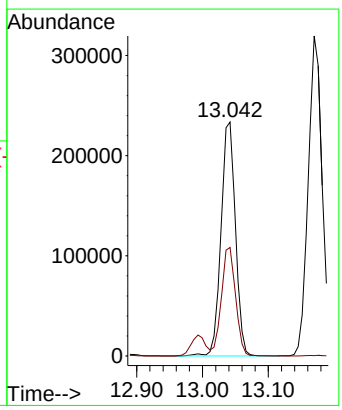


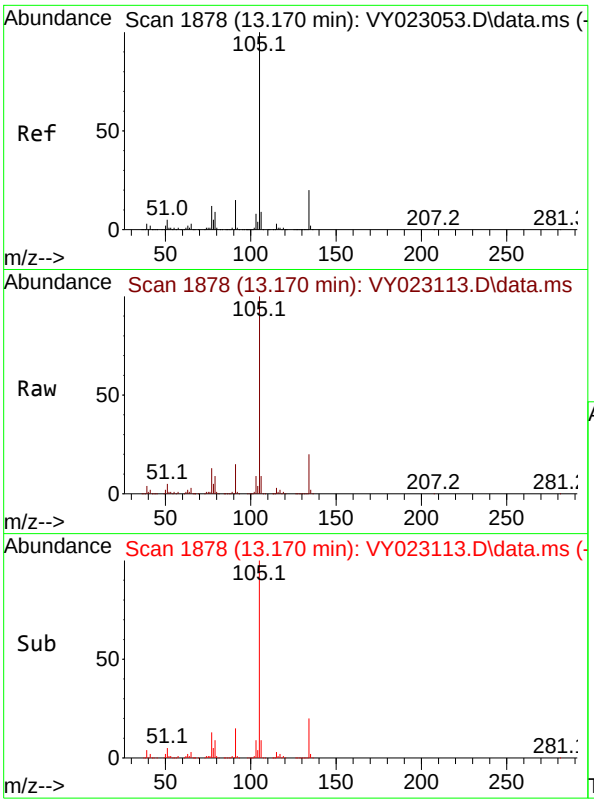


#84
1,2,4-Trimethylbenzene
Concen: 19.199 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:105 Resp: 356647

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.0	69.0



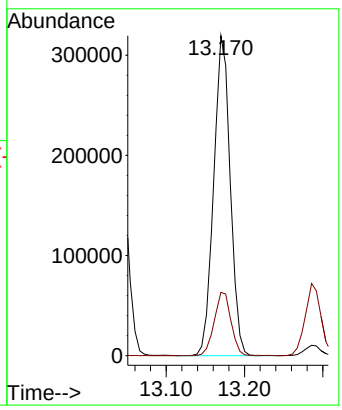


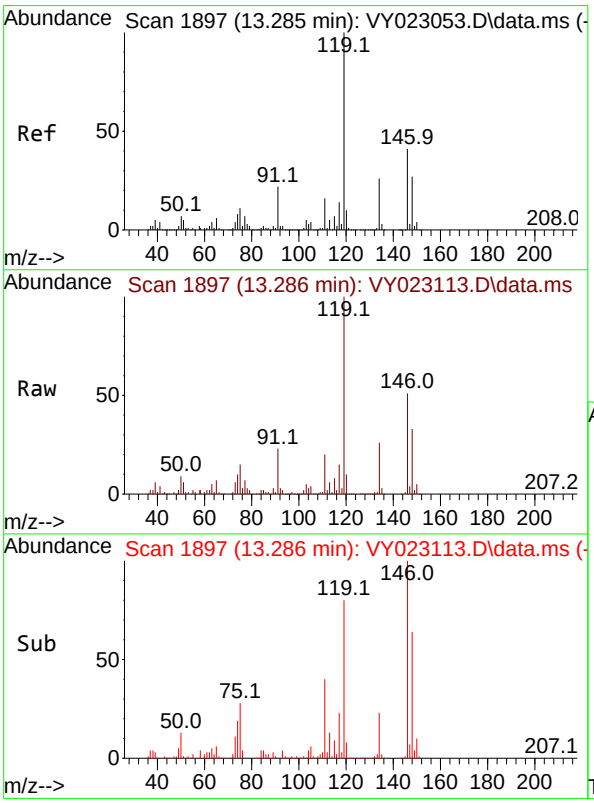
#85
sec-Butylbenzene
Concen: 18.917 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:105 Resp: 468353

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

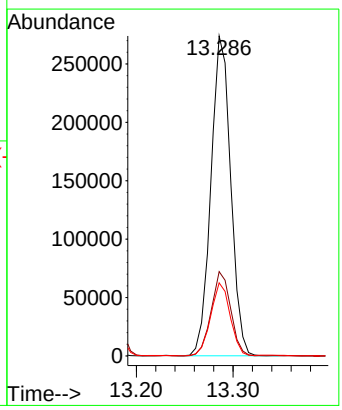


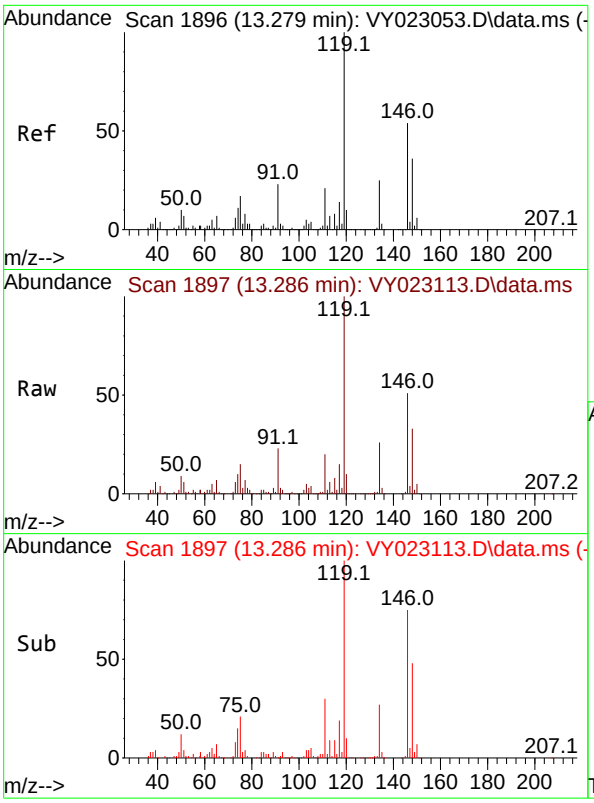


#86
p-Isopropyltoluene
Concen: 18.897 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:119 Resp: 388353

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.2	39.6
91	22.5	11.3	33.8



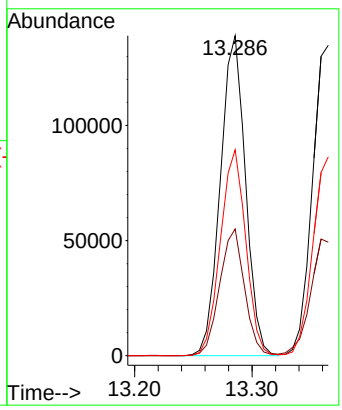


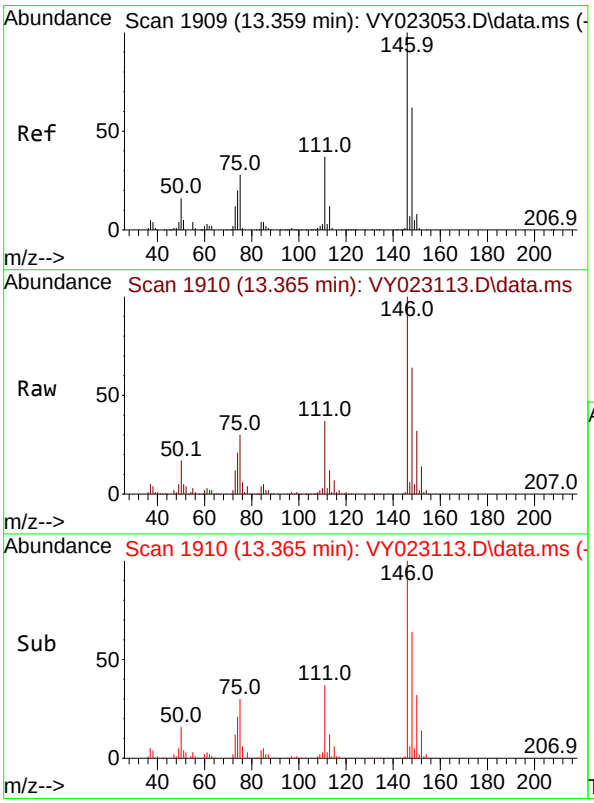
#87
1,3-Dichlorobenzene
Concen: 19.055 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:146 Resp: 206995

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	65.1	32.5	97.5

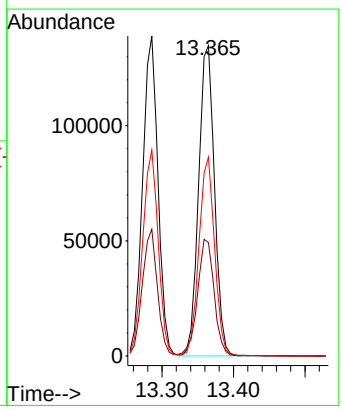


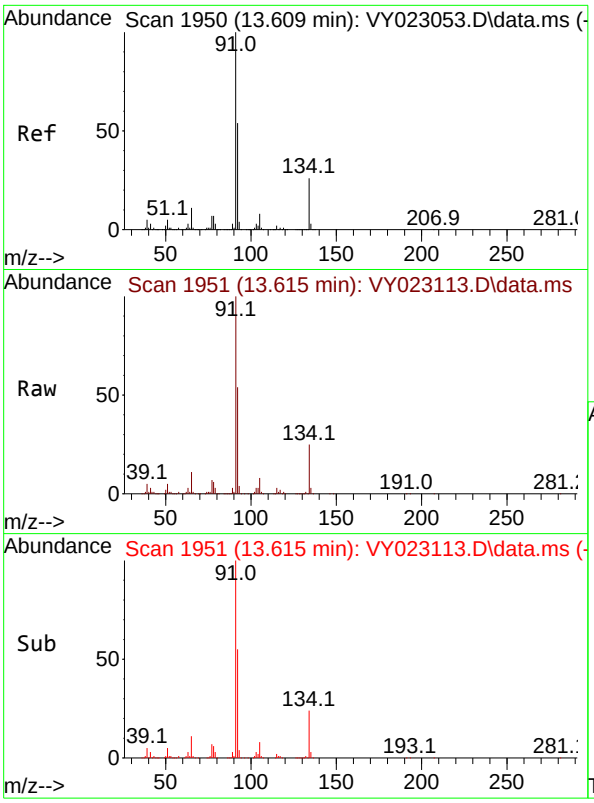


#88
1,4-Dichlorobenzene
Concen: 19.268 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:146 Resp: 207638

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.1
148	63.2	31.6	94.7



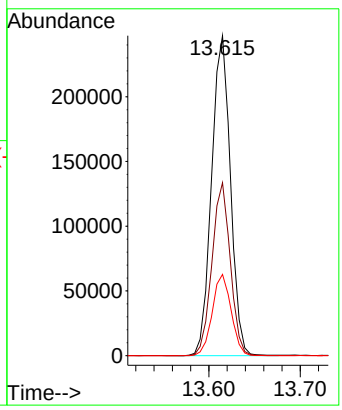


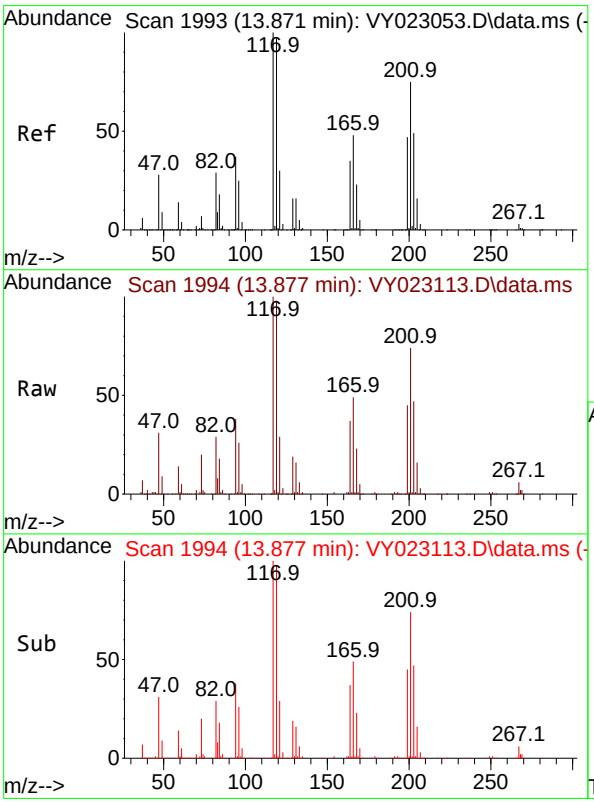
#89
n-Butylbenzene
Concen: 18.720 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion: 91 Resp: 353333

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.9	80.7
134	25.5	13.2	39.5

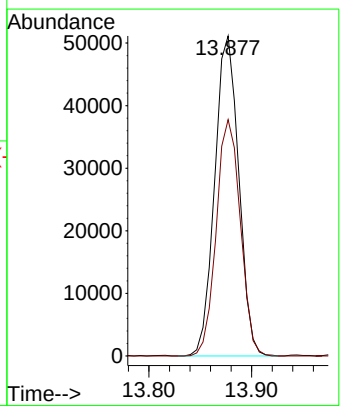


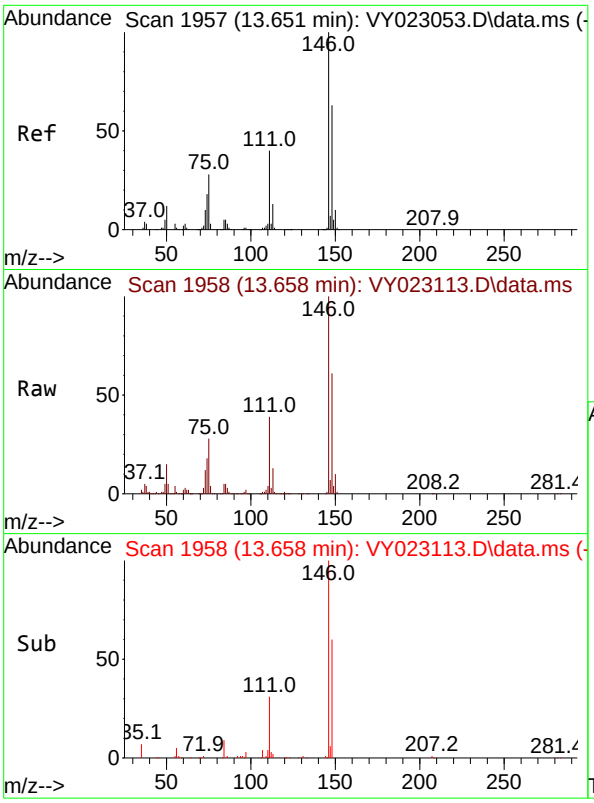


#90
Hexachloroethane
Concen: 19.725 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:117 Resp: 82985

Ion	Ratio	Lower	Upper
117	100		
201	73.8	38.4	115.1



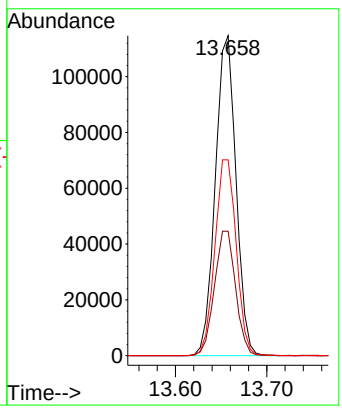


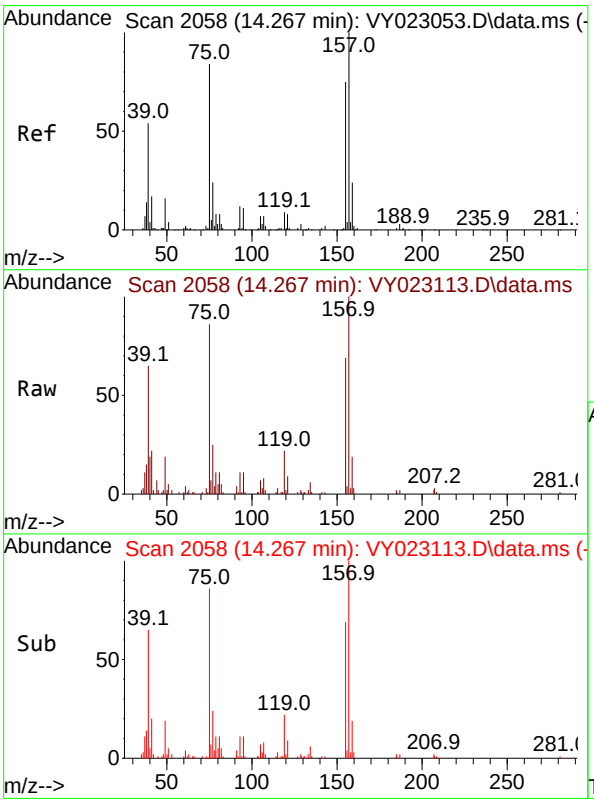
#91
1,2-Dichlorobenzene
Concen: 18.946 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:146 Resp: 180503

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.2	32.2	96.6

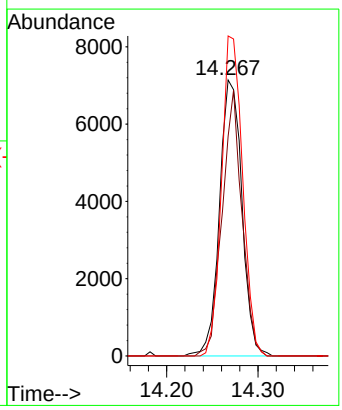


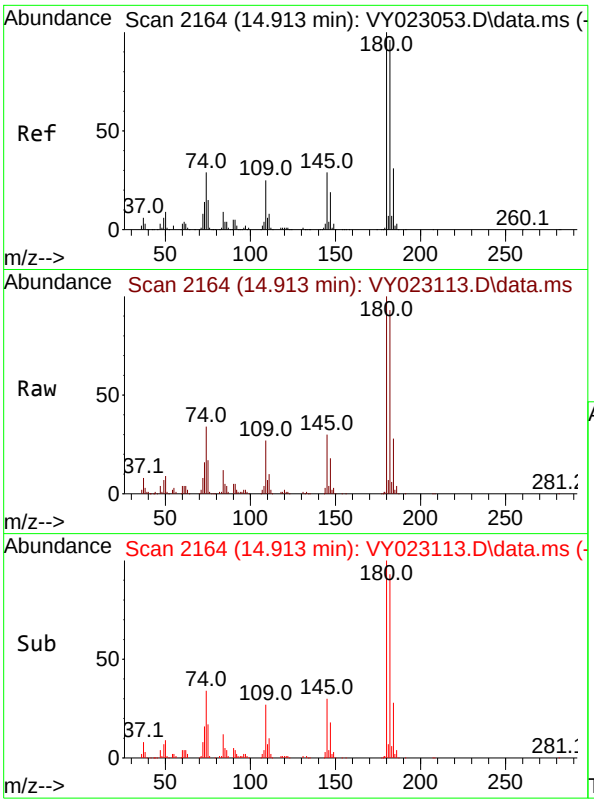


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.809 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion: 75 Resp: 12160

Ion	Ratio	Lower	Upper
75	100		
155	85.4	43.9	131.6
157	109.3	57.2	171.6



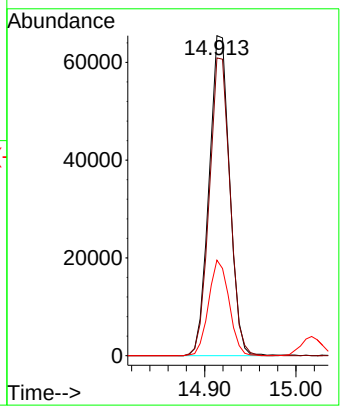


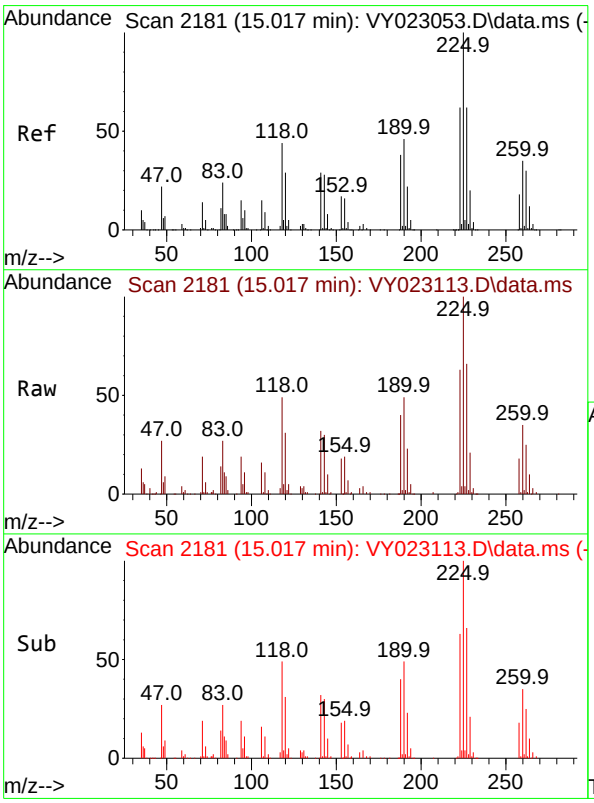
#93
1,2,4-Trichlorobenzene
Concen: 18.177 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:180 Resp: 102405

Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.8	140.4
145	29.7	14.4	43.4

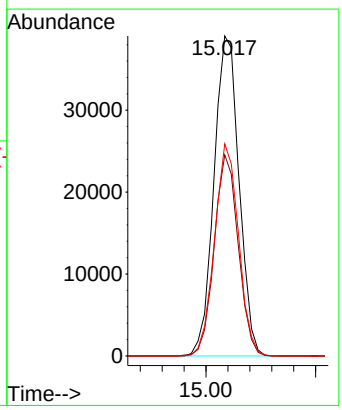


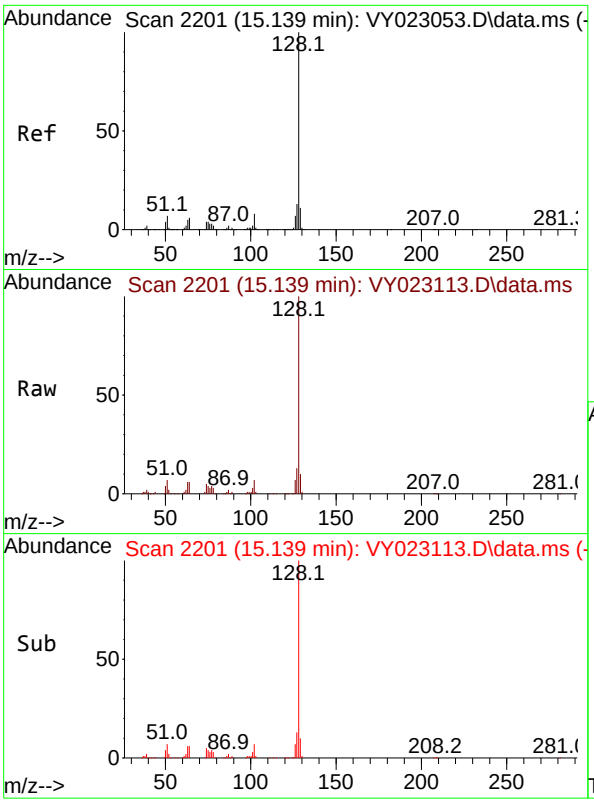


#94
Hexachlorobutadiene
Concen: 18.710 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:225 Resp: 61940

Ion	Ratio	Lower	Upper
225	100		
223	60.2	31.3	93.8
227	63.8	31.5	94.5



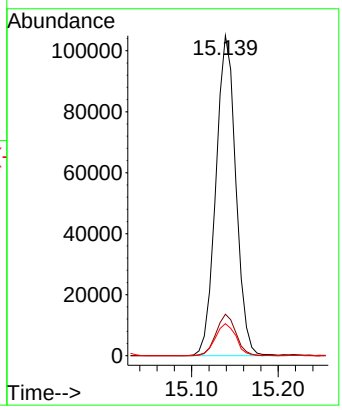


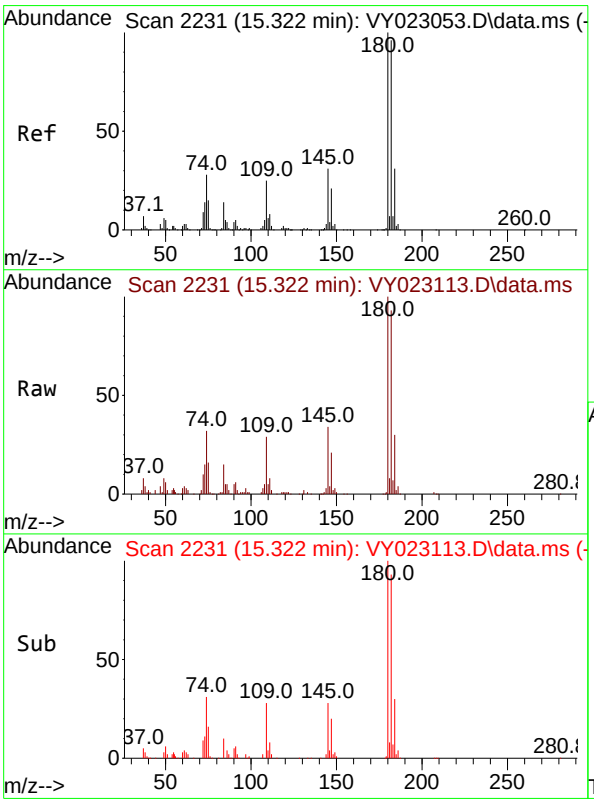
#95
Naphthalene
Concen: 17.503 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Tgt Ion:128 Resp: 168145

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.4	9.0	13.4

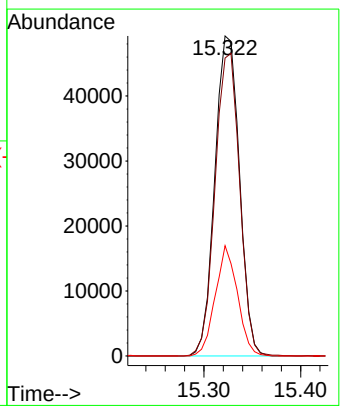




#96
1,2,3-Trichlorobenzene
Concen: 17.892 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023113.D
Acq: 15 Aug 2025 09:37

Tgt Ion:180 Resp: 86860

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.7
145	31.1	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	430308	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	718703	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	640791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	327055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	209678	51.127	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.260%			
35) Dibromofluoromethane	7.628	113	208578	48.501	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.000%			
50) Toluene-d8	10.103	98	835617	49.738	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.480%			
62) 4-Bromofluorobenzene	12.402	95	266231	49.275	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	121628	34.628	ug/l	99
3) Chloromethane	2.068	50	257975	45.346	ug/l	97
4) Vinyl Chloride	2.202	62	345536	49.135	ug/l	99
5) Bromomethane	2.592	94	270785	51.559	ug/l	100
6) Chloroethane	2.733	64	241433	51.640	ug/l	99
7) Trichlorofluoromethane	3.050	101	396172	46.330	ug/l	97
8) Diethyl Ether	3.452	74	102249	45.197	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.806	101	180286	42.736	ug/l	99
10) Methyl Iodide	4.001	142	223871	49.178	ug/l	98
11) Tert butyl alcohol	4.854	59	58084	206.701	ug/l	98
12) 1,1-Dichloroethene	3.781	96	187457	45.207	ug/l	96
13) Acrolein	3.653	56	58421	141.959	ug/l	98
14) Allyl chloride	4.379	41	274900	45.054	ug/l	98
15) Acrylonitrile	5.055	53	207991	226.140	ug/l	99
16) Acetone	3.866	43	150363	169.235	ug/l	99
17) Carbon Disulfide	4.098	76	597944	44.225	ug/l	99
18) Methyl Acetate	4.385	43	154996	58.622	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	498217	46.367	ug/l	100
20) Methylene Chloride	4.610	84	221392	47.835	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	223573	47.978	ug/l	95
22) Diisopropyl ether	6.019	45	632885	47.734	ug/l	98
23) Vinyl Acetate	5.958	43	1530852	208.809	ug/l	100
24) 1,1-Dichloroethane	5.909	63	385922	47.608	ug/l	99
25) 2-Butanone	6.890	43	242030	200.293	ug/l	97
26) 2,2-Dichloropropane	6.884	77	296658	42.412	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	260875	48.425	ug/l	98
28) Bromochloromethane	7.244	49	159803	49.690	ug/l	99
29) Tetrahydrofuran	7.262	42	164833	220.064	ug/l	99
30) Chloroform	7.421	83	409239	48.951	ug/l	96
31) Cyclohexane	7.701	56	317051	41.505	ug/l	99
32) 1,1,1-Trichloroethane	7.610	97	353516	47.657	ug/l	98
36) 1,1-Dichloropropene	7.829	75	286083	44.762	ug/l	99
37) Ethyl Acetate	6.982	43	113967	42.450	ug/l	99
38) Carbon Tetrachloride	7.817	117	313598	45.177	ug/l	97
39) Methylcyclohexane	9.109	83	357877	42.522	ug/l	96
40) Benzene	8.073	78	916243	46.514	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	64946	41.916	ug/l		96
42) 1,2-Dichloroethane	8.152	62	234175	45.709	ug/l		98
43) Isopropyl Acetate	8.195	43	235882	43.470	ug/l		100
44) Trichloroethene	8.860	130	241977	47.535	ug/l		97
45) 1,2-Dichloropropane	9.140	63	211470	46.657	ug/l		100
46) Dibromomethane	9.225	93	119663	45.999	ug/l		98
47) Bromodichloromethane	9.420	83	310859	46.439	ug/l		98
48) Methyl methacrylate	9.219	41	117614	45.295	ug/l		98
49) 1,4-Dioxane	9.225	88	27514	902.014	ug/l		92
51) 4-Methyl-2-Pentanone	9.993	43	615423	219.870	ug/l		100
52) Toluene	10.164	92	591580	47.285	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	274370	45.264	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	325037	45.347	ug/l		100
55) 1,1,2-Trichloroethane	10.567	97	157893	45.358	ug/l		97
56) Ethyl methacrylate	10.438	69	201789	45.302	ug/l		98
57) 1,3-Dichloropropane	10.713	76	269094	45.582	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	520841	247.890	ug/l		99
59) 2-Hexanone	10.756	43	403176	211.536	ug/l		100
60) Dibromochloromethane	10.908	129	211553	46.058	ug/l		100
61) 1,2-Dibromoethane	11.012	107	148382	45.352	ug/l		99
64) Tetrachloroethene	10.646	164	297964	52.075	ug/l		98
65) Chlorobenzene	11.438	112	640496	46.339	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.511	131	219895	46.876	ug/l		99
67) Ethyl Benzene	11.511	91	1124279	47.266	ug/l		99
68) m/p-Xylenes	11.621	106	878925	94.610	ug/l		99
69) o-Xylene	11.950	106	412282	47.384	ug/l		98
70) Styrene	11.963	104	693511	48.738	ug/l		100
71) Bromoform	12.127	173	117595	42.892	ug/l		98
73) Isopropylbenzene	12.249	105	1067182	46.232	ug/l		100
74) N-amyl acetate	12.066	43	201534	41.170	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	150140	38.093	ug/l		98
76) 1,2,3-Trichloropropane	12.548	75	221151	70.064	ug/l	#	100
77) Bromobenzene	12.523	156	242744	44.080	ug/l		98
78) n-propylbenzene	12.591	91	1280468	46.593	ug/l		100
79) 2-Chlorotoluene	12.676	91	728787	46.284	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	870525	46.663	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	51688	39.640	ug/l		98
82) 4-Chlorotoluene	12.773	91	754599	46.196	ug/l		100
83) tert-Butylbenzene	12.993	119	778117	46.181	ug/l		100
84) 1,2,4-Trimethylbenzene	13.036	105	879311	47.349	ug/l		100
85) sec-Butylbenzene	13.170	105	1156161	46.712	ug/l		99
86) p-Isopropyltoluene	13.286	119	972014	47.312	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	493403	45.434	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	482971	44.832	ug/l		99
89) n-Butylbenzene	13.609	91	886753	46.994	ug/l		99
90) Hexachloroethane	13.877	117	193098	45.913	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	431633	45.320	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	25801	42.044	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	236226	41.942	ug/l		99
94) Hexachlorobutadiene	15.017	225	137786	41.632	ug/l		99
95) Naphthalene	15.139	128	413036	43.007	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	205156	42.272	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

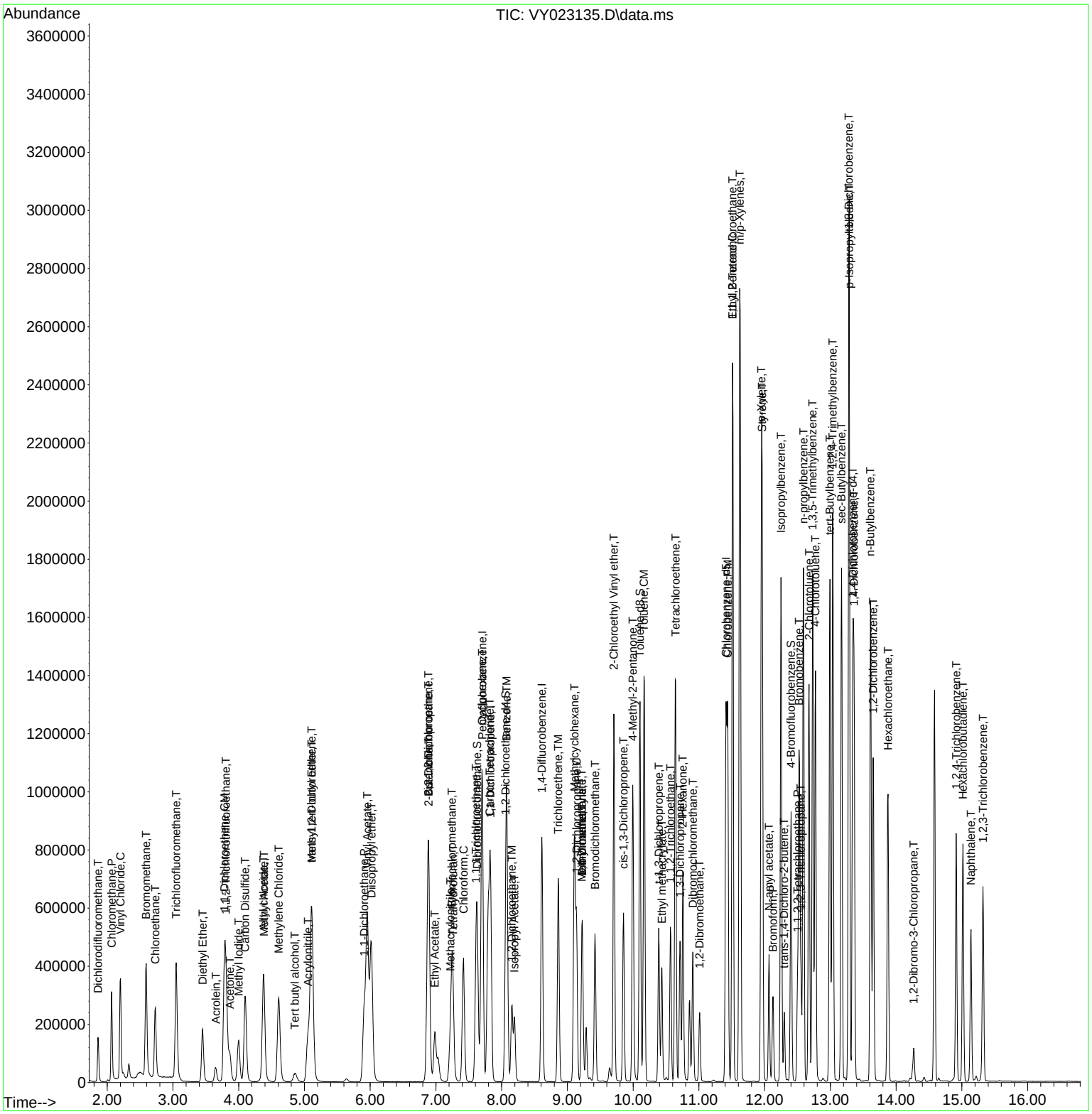
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

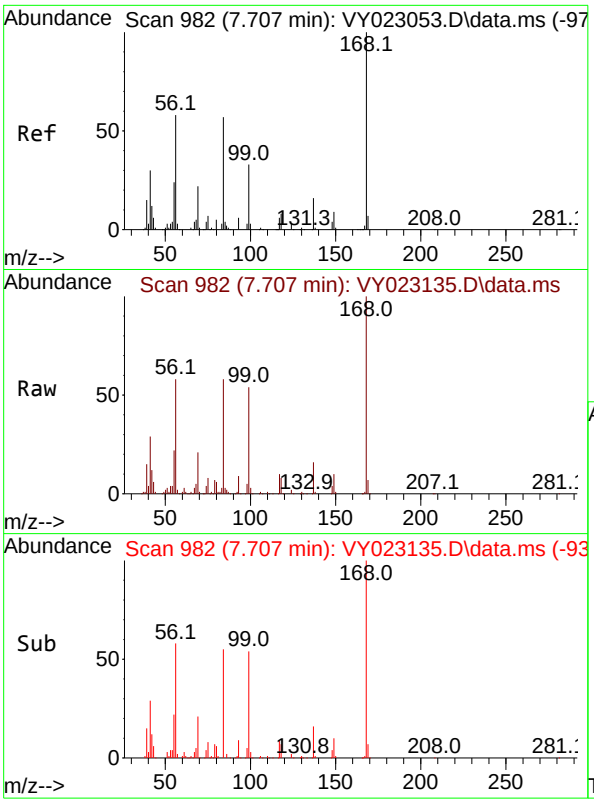
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023135.D
Acq On : 15 Aug 2025 19:06
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 02:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



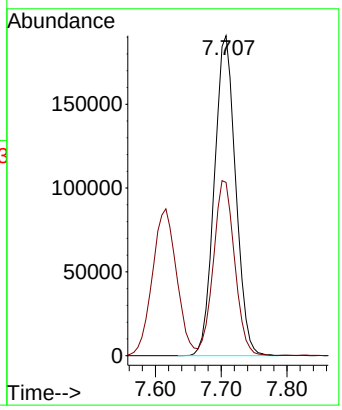


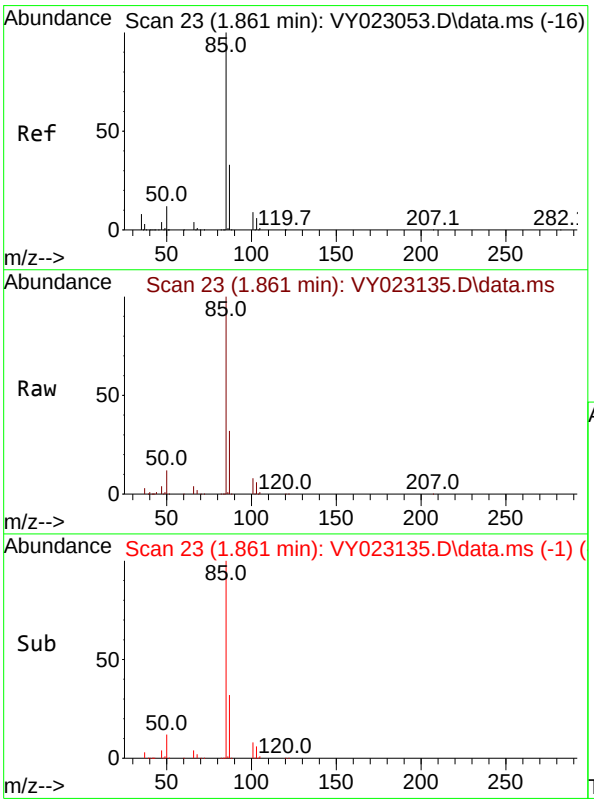
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 430308

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2

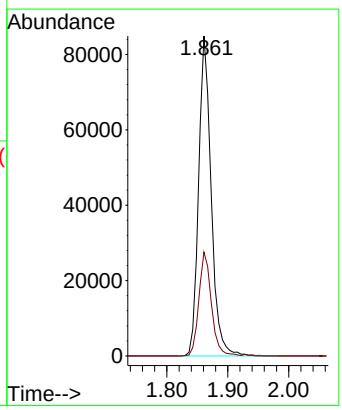


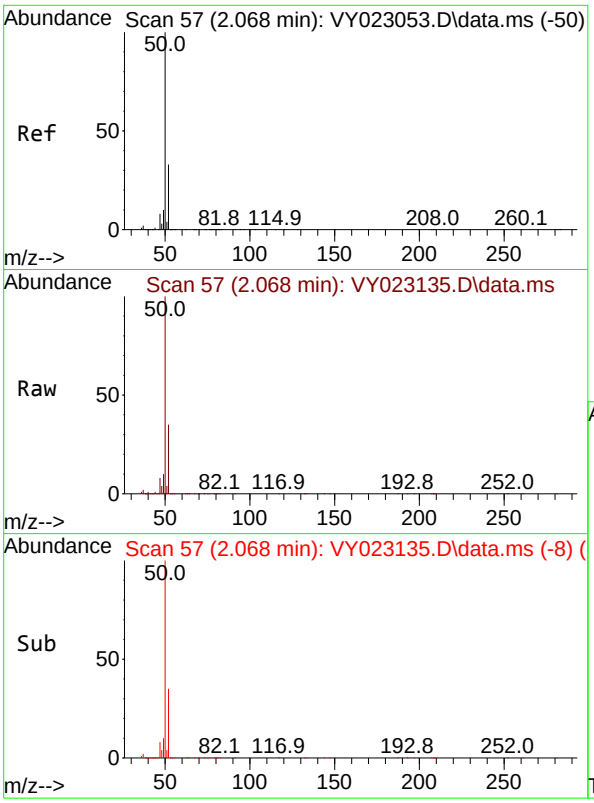


#2
Dichlorodifluoromethane
Concen: 34.628 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 85 Resp: 121628

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.6	49.8



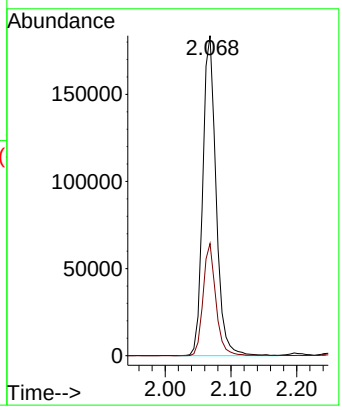


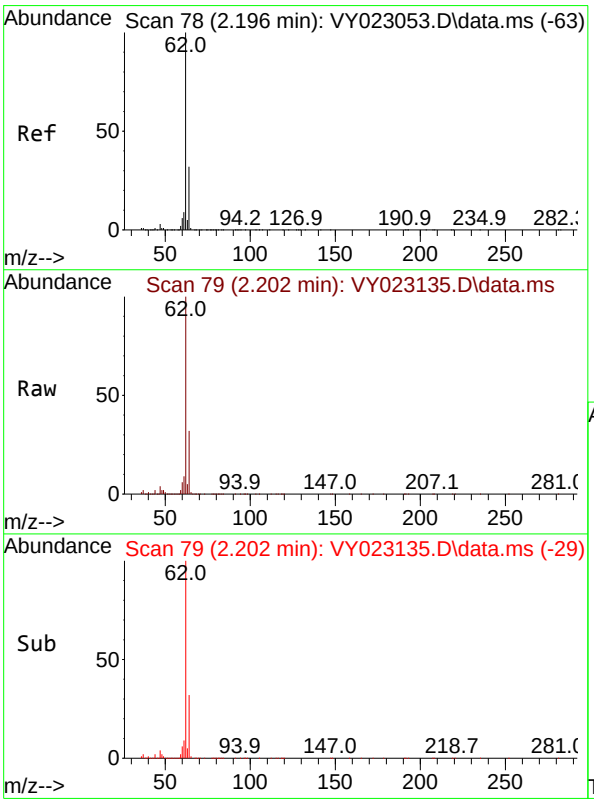
#3
Chloromethane
Concen: 45.346 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 257975

Ion	Ratio	Lower	Upper
50	100		
52	35.0	26.7	40.1

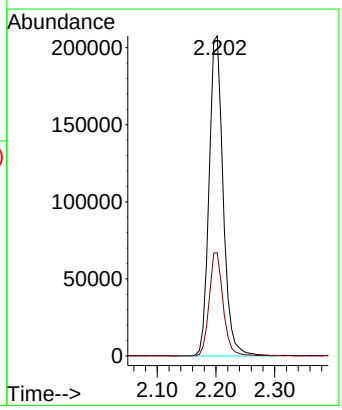


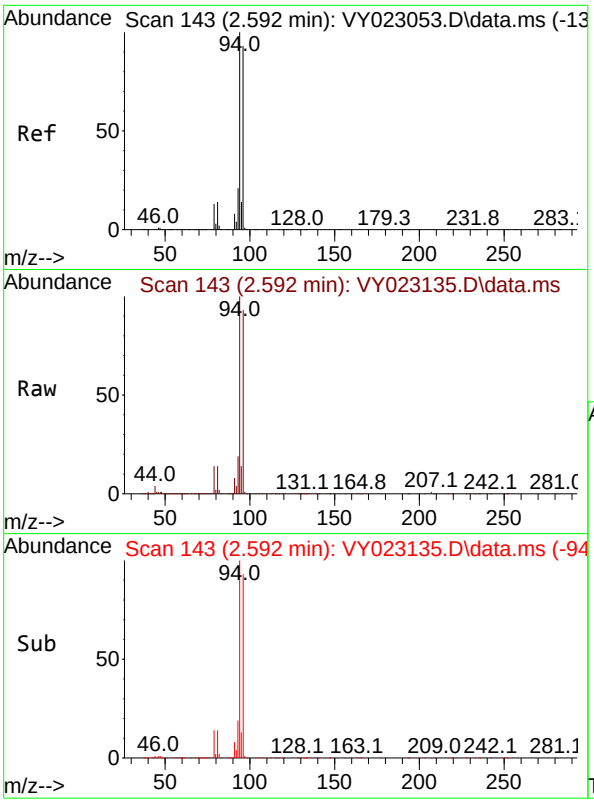


#4
Vinyl Chloride
Concen: 49.135 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 62 Resp: 345536

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0



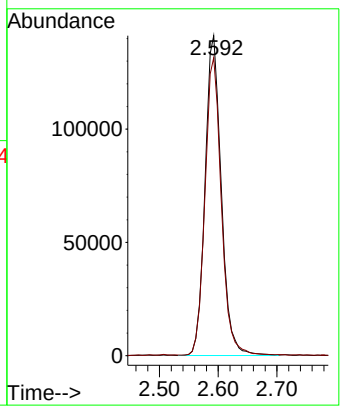


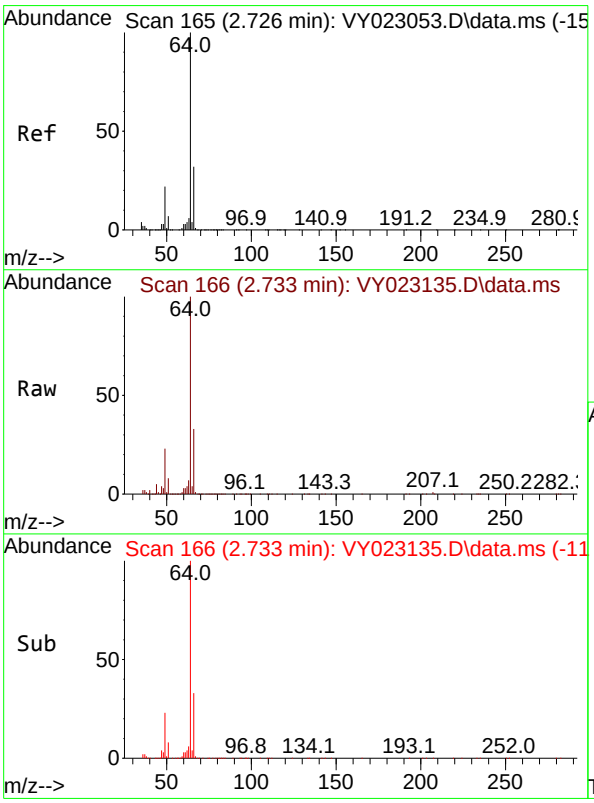
#5
Bromomethane
Concen: 51.559 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 270785

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.6	112.0

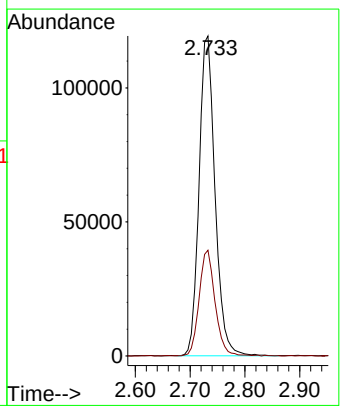


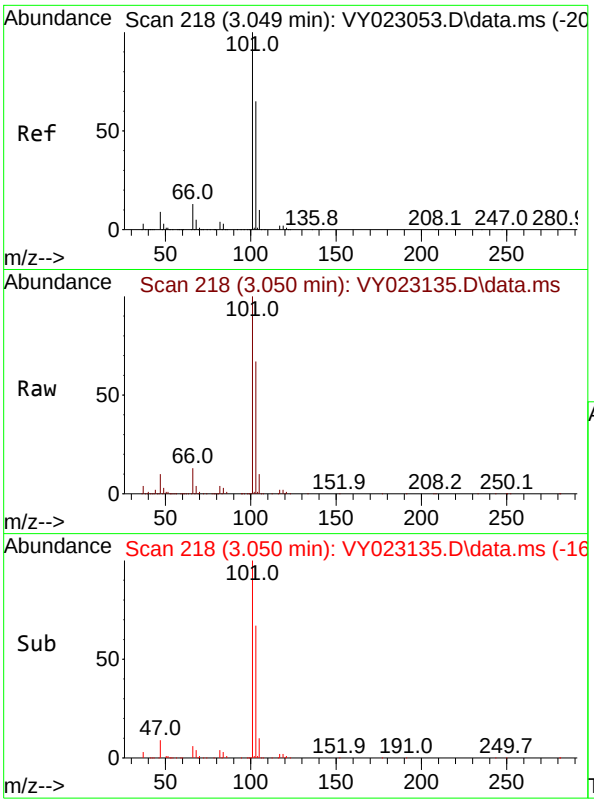


#6
Chloroethane
Concen: 51.640 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 64 Resp: 241433

Ion	Ratio	Lower	Upper
64	100		
66	33.0	25.8	38.6



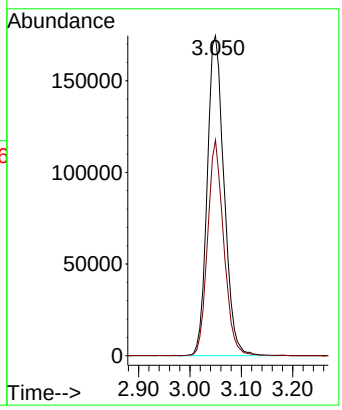


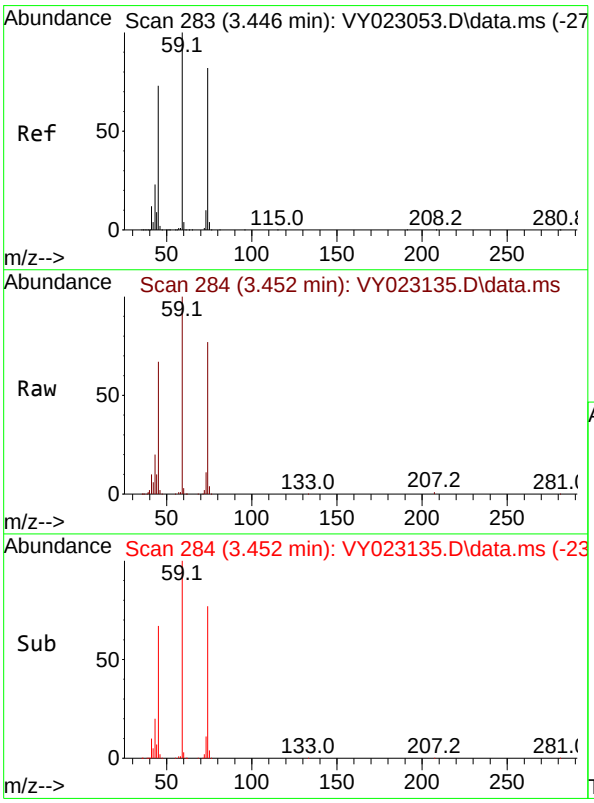
#7
Trichlorofluoromethane
Concen: 46.330 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 396172

Ion	Ratio	Lower	Upper
101	100		
103	67.4	51.9	77.9

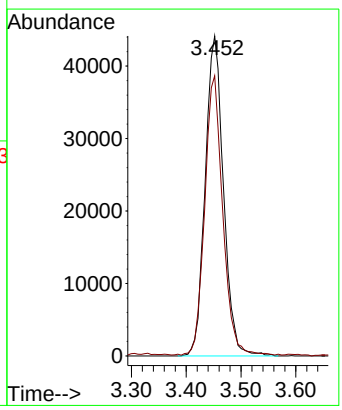


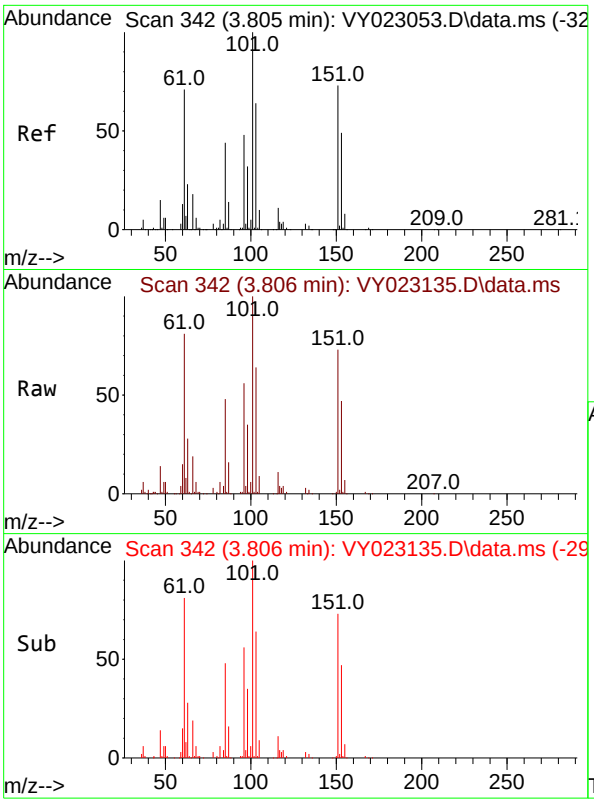


#8
Diethyl Ether
Concen: 45.197 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 74 Resp: 102249

Ion	Ratio	Lower	Upper
74	100		
45	85.6	44.4	133.2



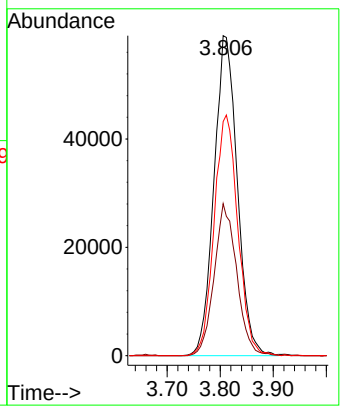


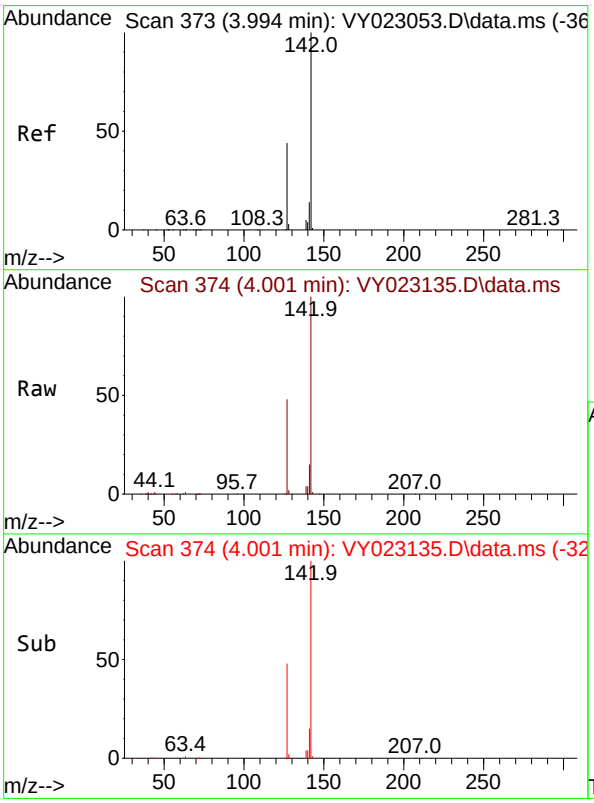
#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.736 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 180286

Ion	Ratio	Lower	Upper
101	100		
85	46.0	36.3	54.5
151	76.5	61.5	92.3

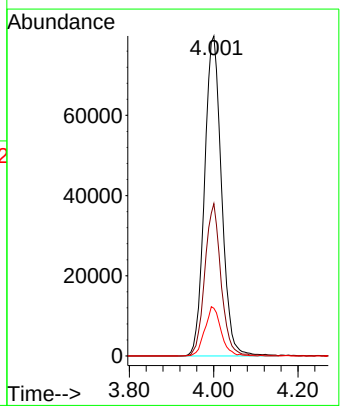


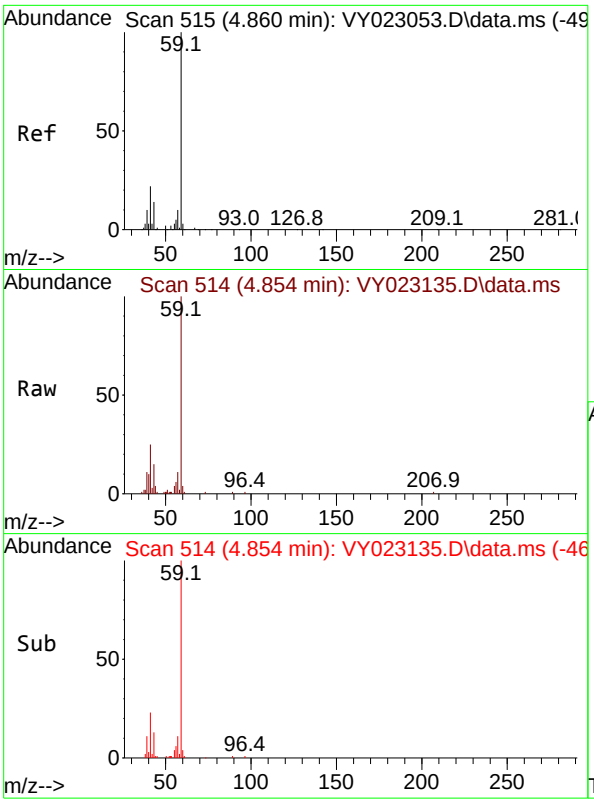


#10
Methyl Iodide
Concen: 49.178 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:142 Resp: 223871

Ion	Ratio	Lower	Upper
142	100		
127	45.3	34.9	52.3
141	14.7	11.3	16.9



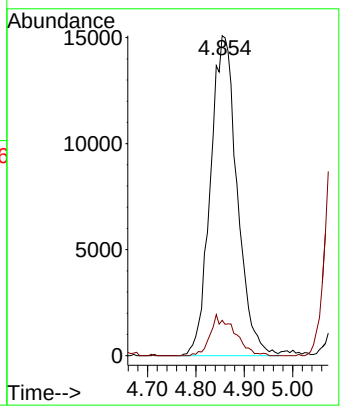


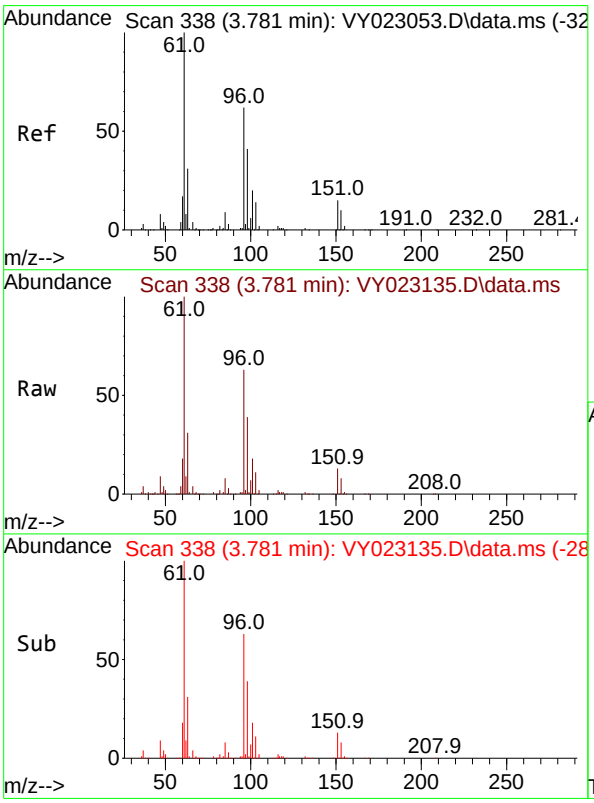
#11
Tert butyl alcohol
Concen: 206.701 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 58084

Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.6	13.0

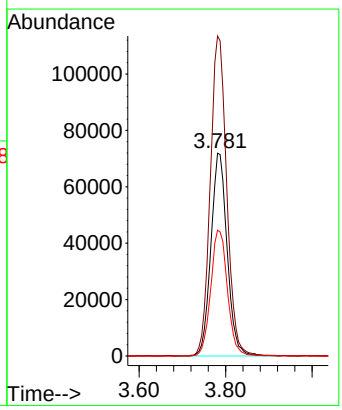


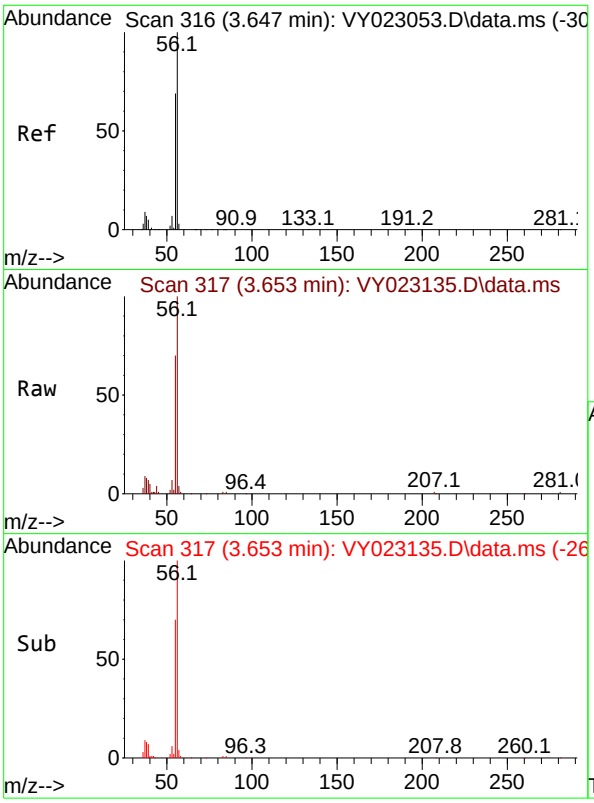


#12
1,1-Dichloroethene
Concen: 45.207 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 96 Resp: 187457

Ion	Ratio	Lower	Upper
96	100		
61	157.9	129.4	194.2
98	62.0	52.8	79.2



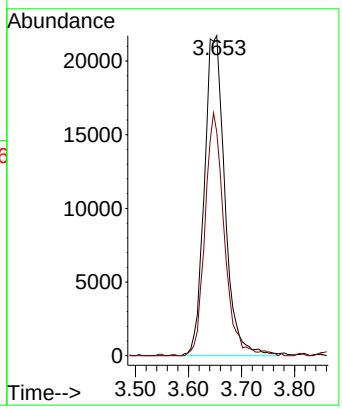


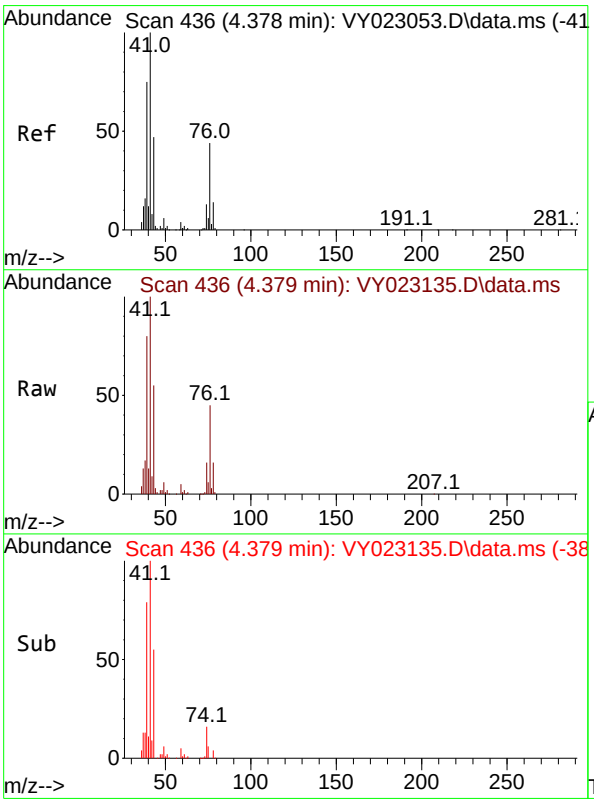
#13
Acrolein
Concen: 141.959 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 58421

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8

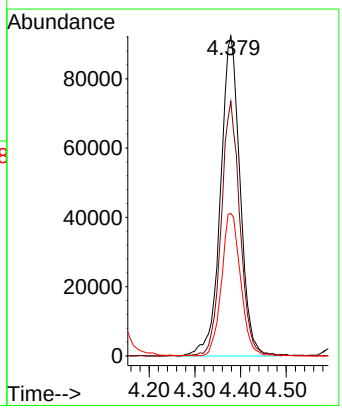


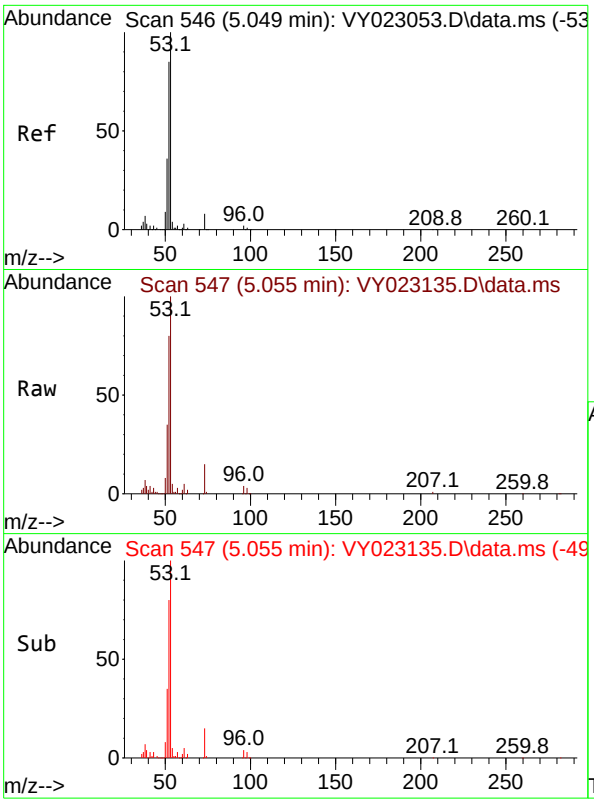


#14
Allyl chloride
Concen: 45.054 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 41 Resp: 274900

Ion	Ratio	Lower	Upper
41	100		
39	76.1	59.8	89.6
76	43.5	33.7	50.5



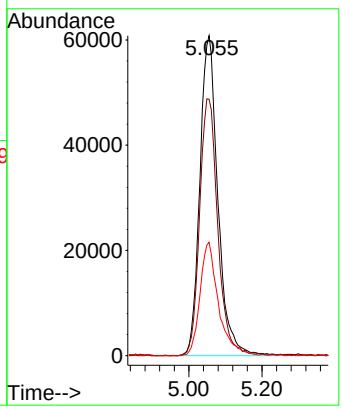


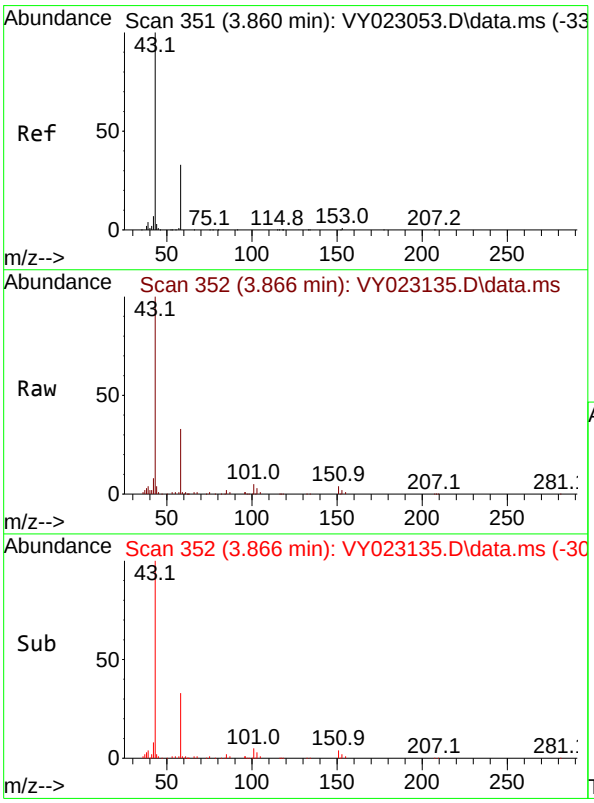
#15
Acrylonitrile
Concen: 226.140 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 207991

Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.3	97.9
51	36.3	29.5	44.3

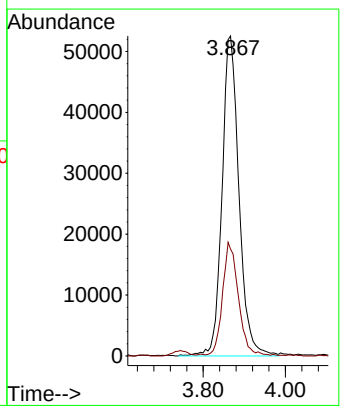


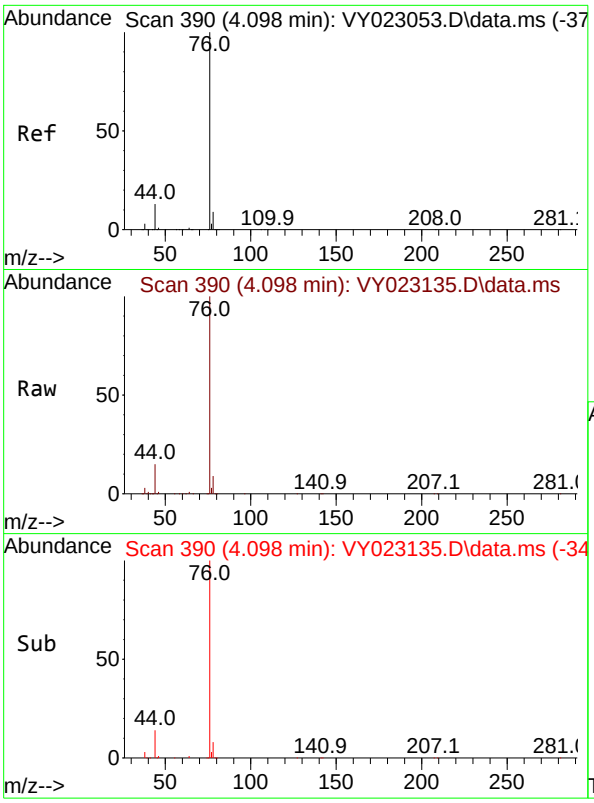


#16
Acetone
Concen: 169.235 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 150363

Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.1	40.7



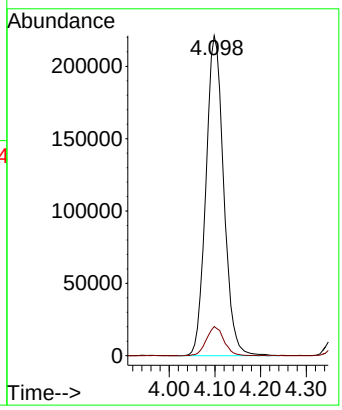


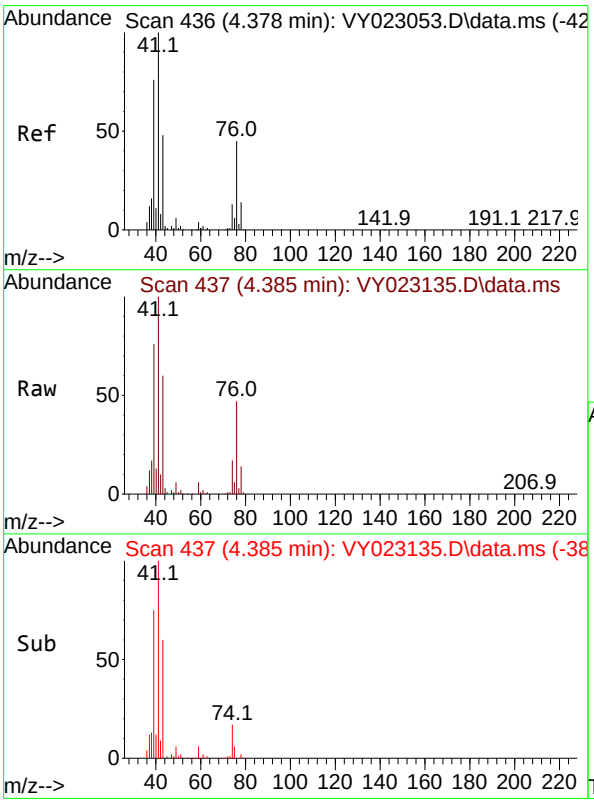
#17
Carbon Disulfide
Concen: 44.225 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 597944

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2

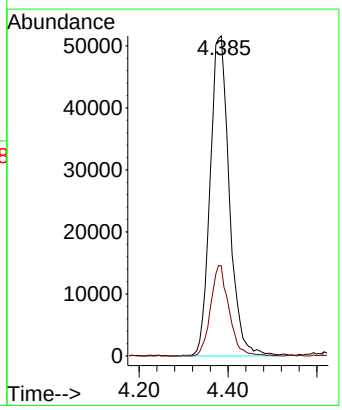


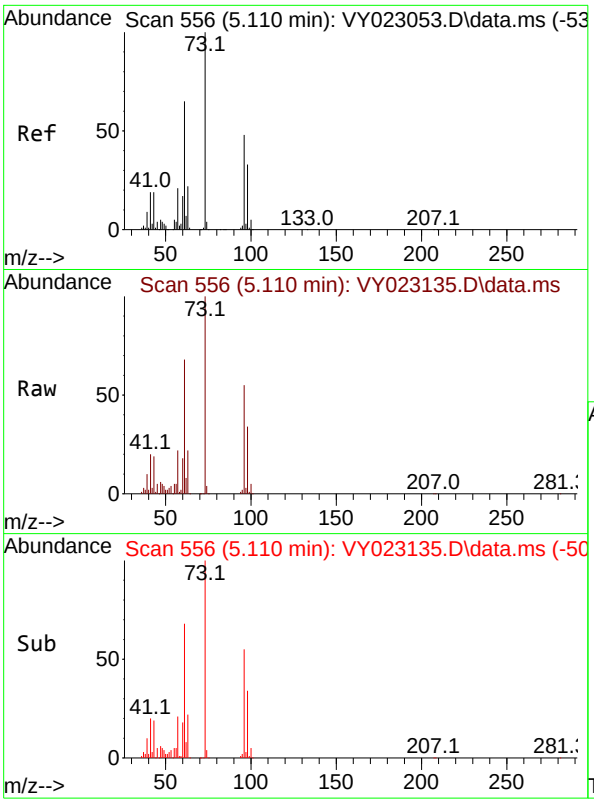


#18
Methyl Acetate
Concen: 58.622 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 154996

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.2	31.8



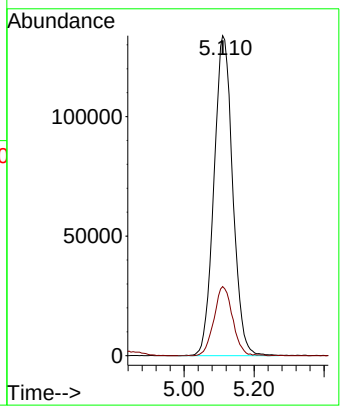


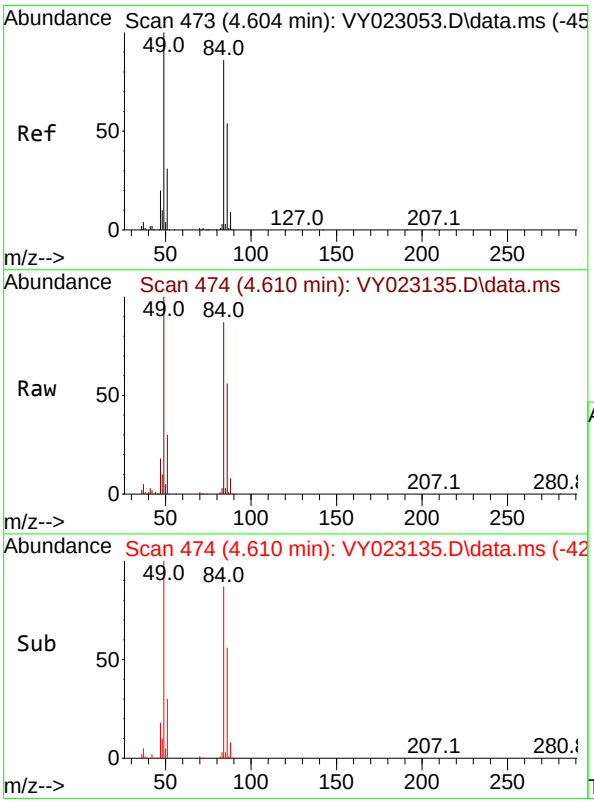
#19
Methyl tert-butyl Ether
Concen: 46.367 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 498217

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.1	25.7

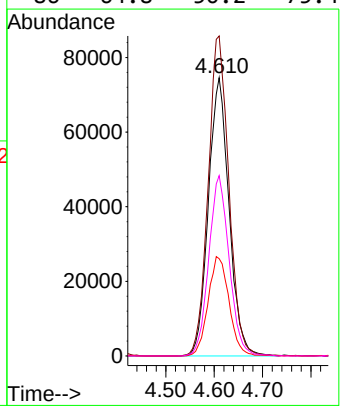


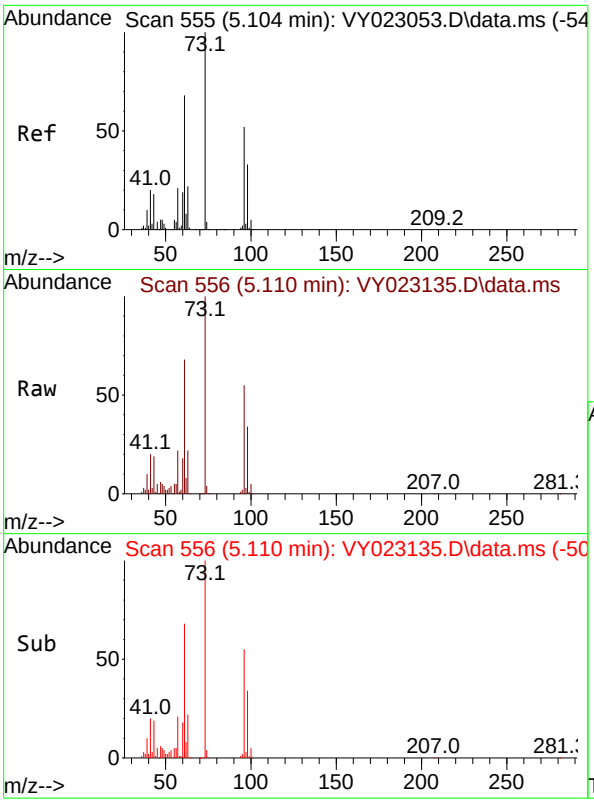


#20
Methylene Chloride
Concen: 47.835 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 84 Resp: 221392

Ion	Ratio	Lower	Upper
84	100		
49	115.0	93.0	139.6
51	34.9	29.0	43.4
86	64.8	50.2	75.4



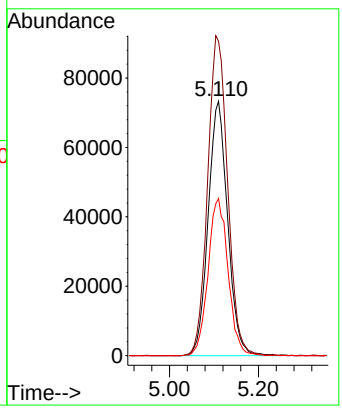


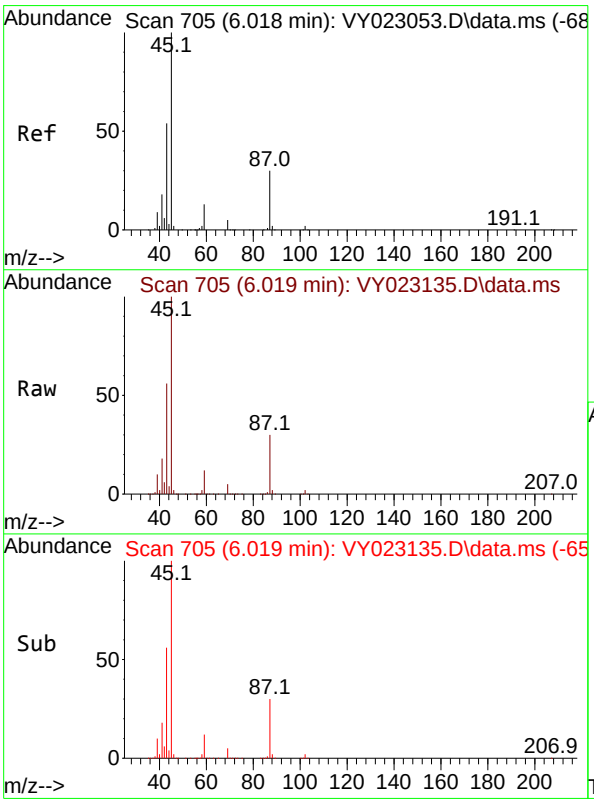
#21
trans-1,2-Dichloroethene
Concen: 47.978 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 223573

Ion	Ratio	Lower	Upper
96	100		
61	123.6	104.8	157.2
98	61.8	50.1	75.1

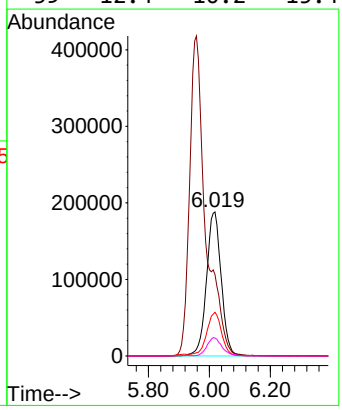


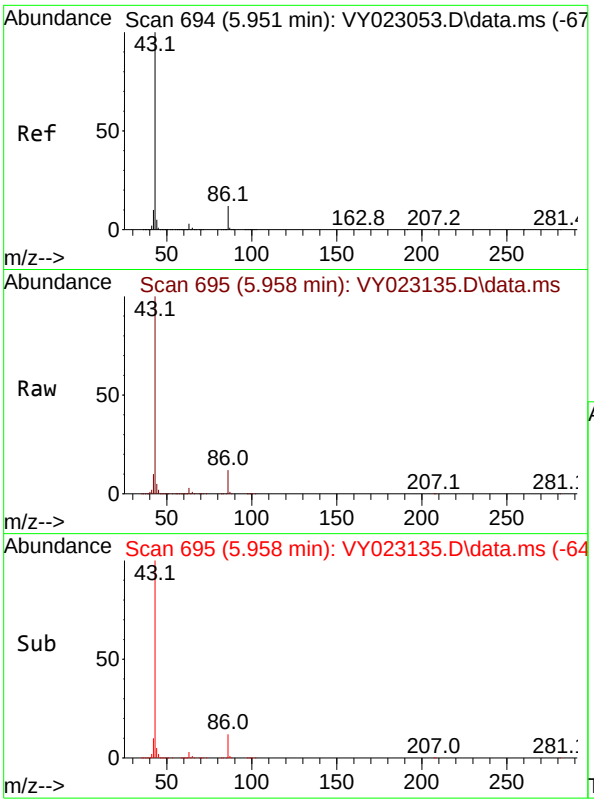


#22
Diisopropyl ether
Concen: 47.734 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 45 Resp: 632885

Ion	Ratio	Lower	Upper
45	100		
43	56.3	43.4	65.0
87	30.3	24.4	36.6
59	12.4	10.2	15.4



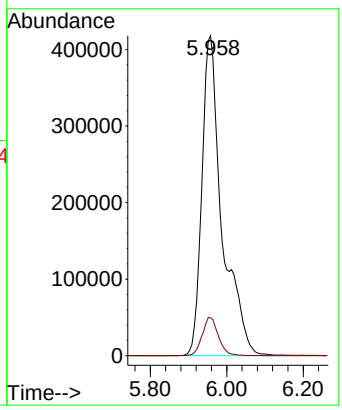


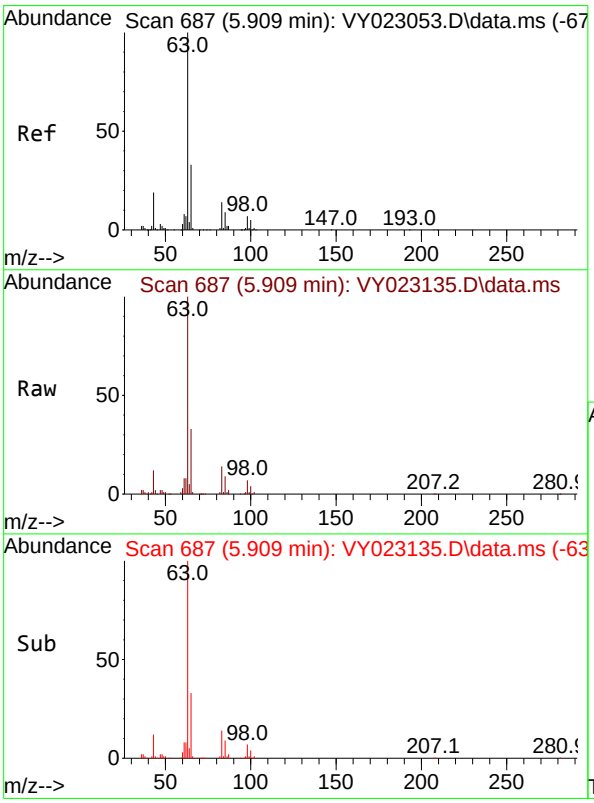
#23
Vinyl Acetate
Concen: 208.809 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1530852

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.6	14.4

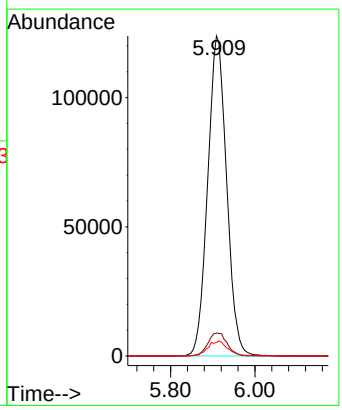


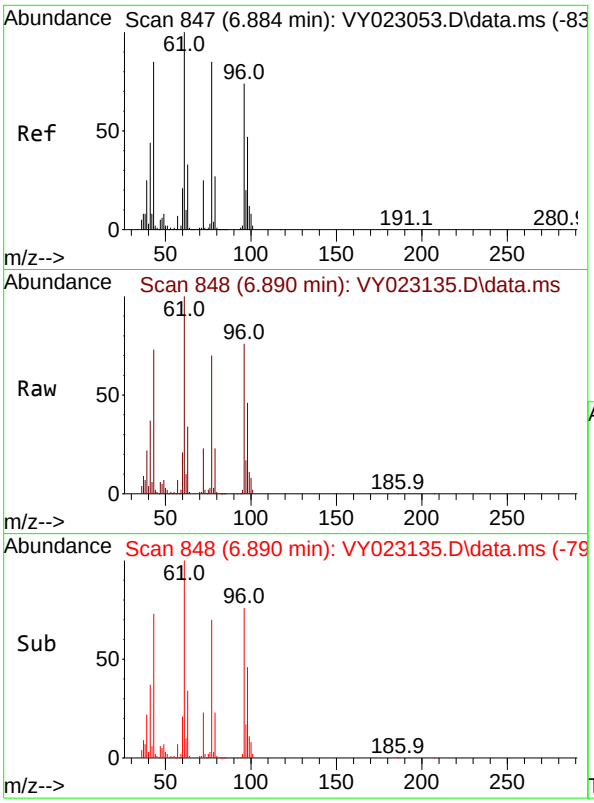


#24
1,1-Dichloroethane
Concen: 47.608 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 63 Resp: 385922

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.2	2.4	7.1



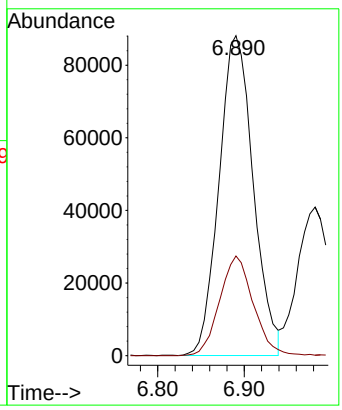


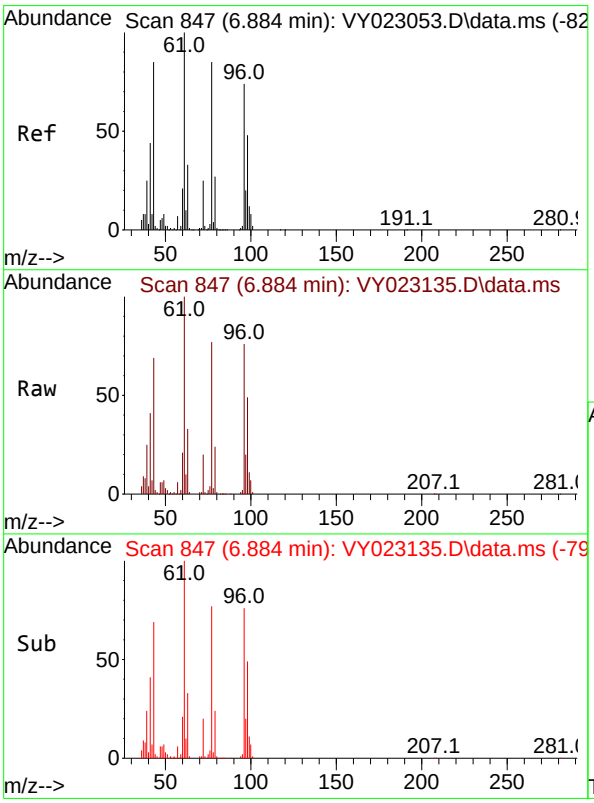
#25
2-Butanone
Concen: 200.293 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 242030

Ion	Ratio	Lower	Upper
43	100		
72	31.2	23.5	35.3

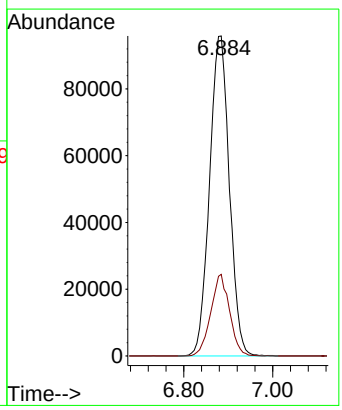


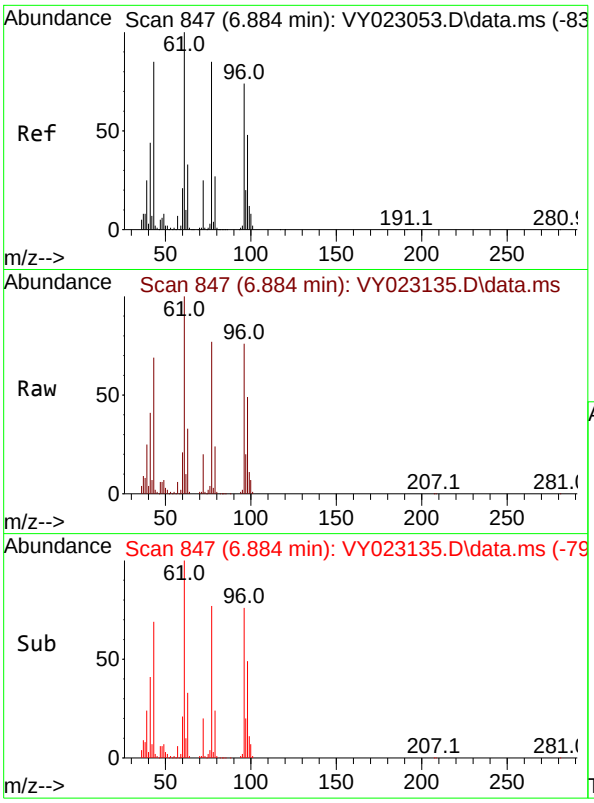


#26
2,2-Dichloropropane
Concen: 42.412 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 77 Resp: 296658

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.8



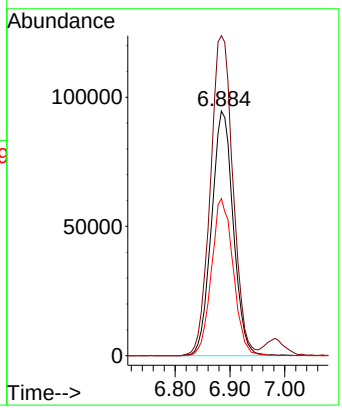


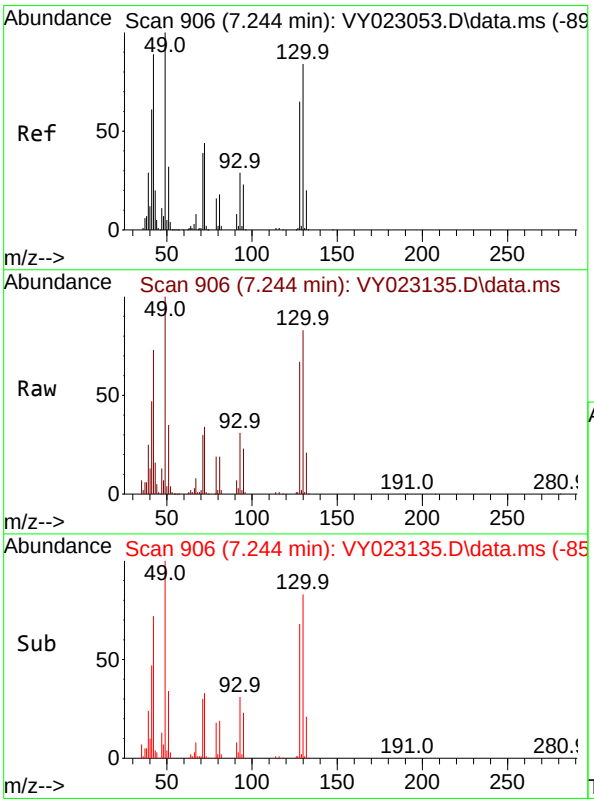
#27
cis-1,2-Dichloroethene
Concen: 48.425 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 260875

Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	278.6
98	64.0	0.0	130.4

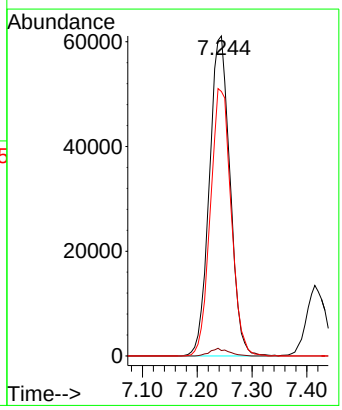


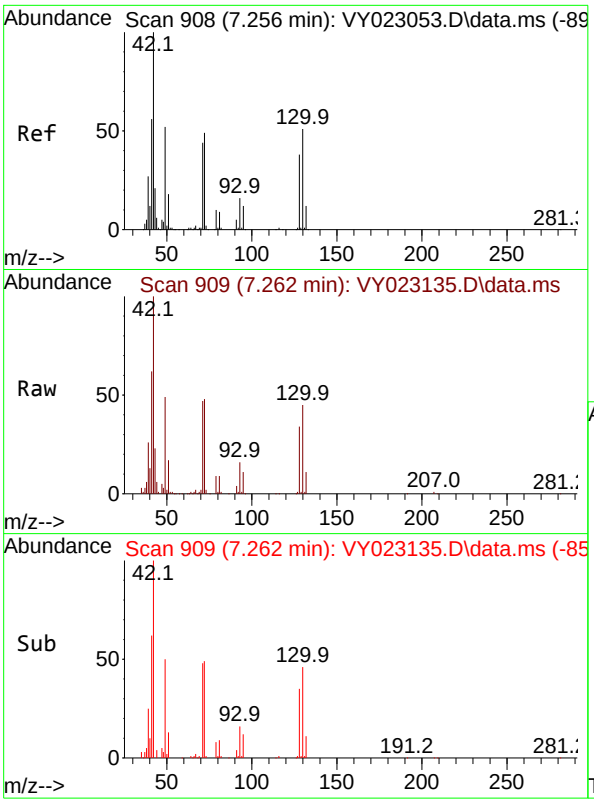


#28
Bromochloromethane
Concen: 49.690 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 49 Resp: 159803

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	83.9	66.4	99.6



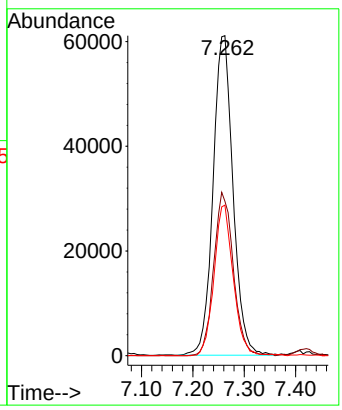


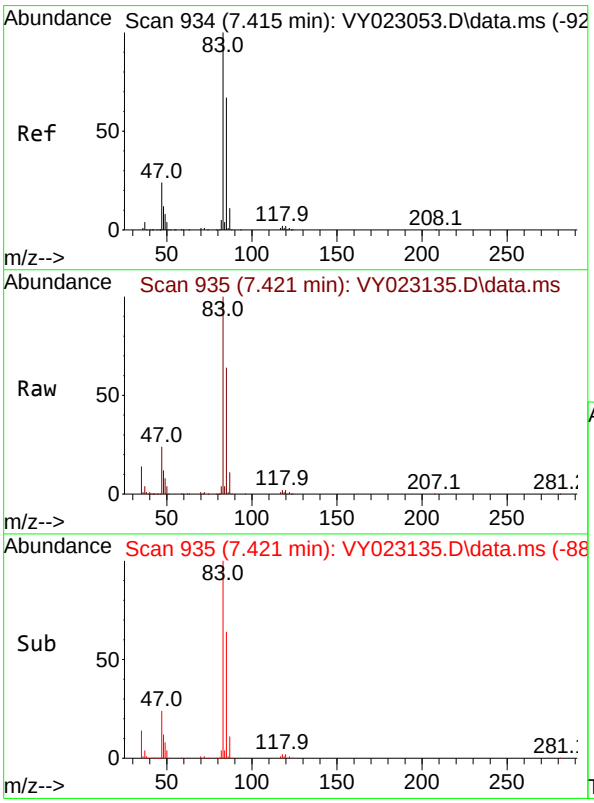
#29
Tetrahydrofuran
Concen: 220.064 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 164833

Ion	Ratio	Lower	Upper
42	100		
72	50.4	39.4	59.2
71	45.2	36.5	54.7

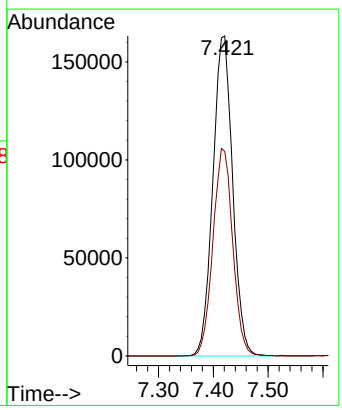


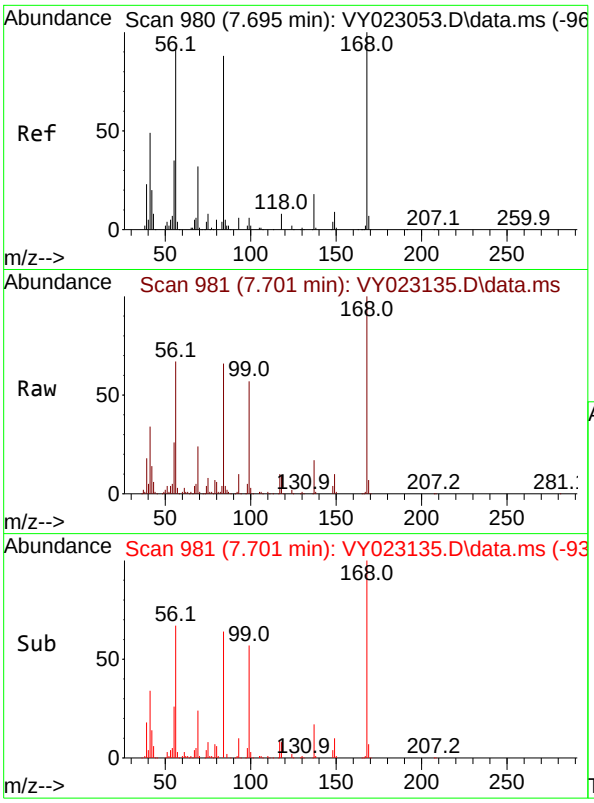


#30
Chloroform
Concen: 48.951 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 83 Resp: 409239

Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.8	80.8



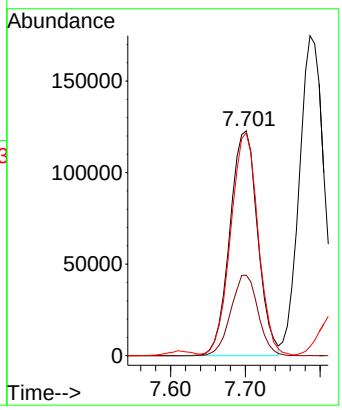


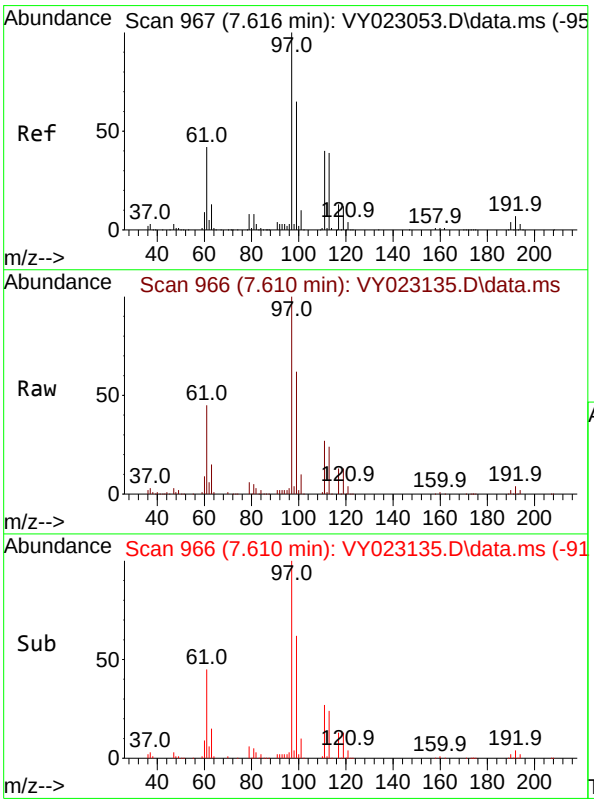
#31
Cyclohexane
Concen: 41.505 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 317051

Ion	Ratio	Lower	Upper
56	100		
69	35.8	28.2	42.2
84	96.9	76.6	114.8

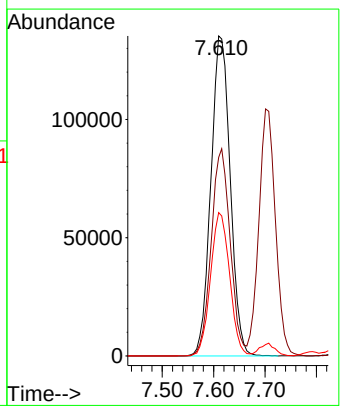


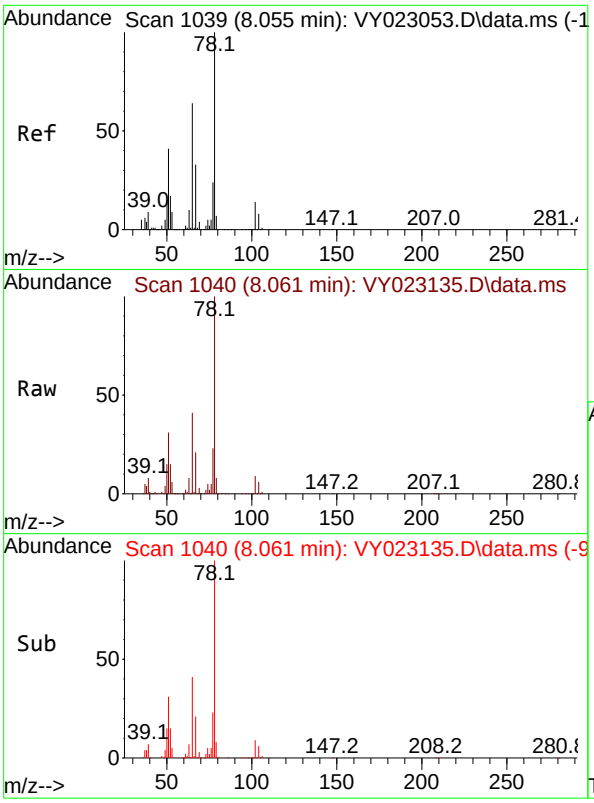


#32
1,1,1-Trichloroethane
Concen: 47.657 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 97 Resp: 353516

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	44.4	34.2	51.2



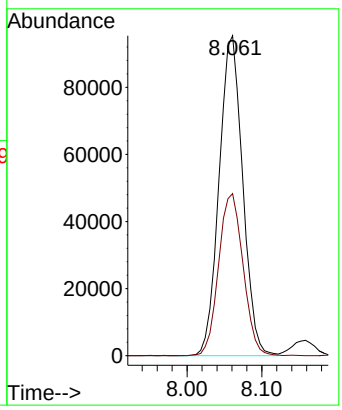


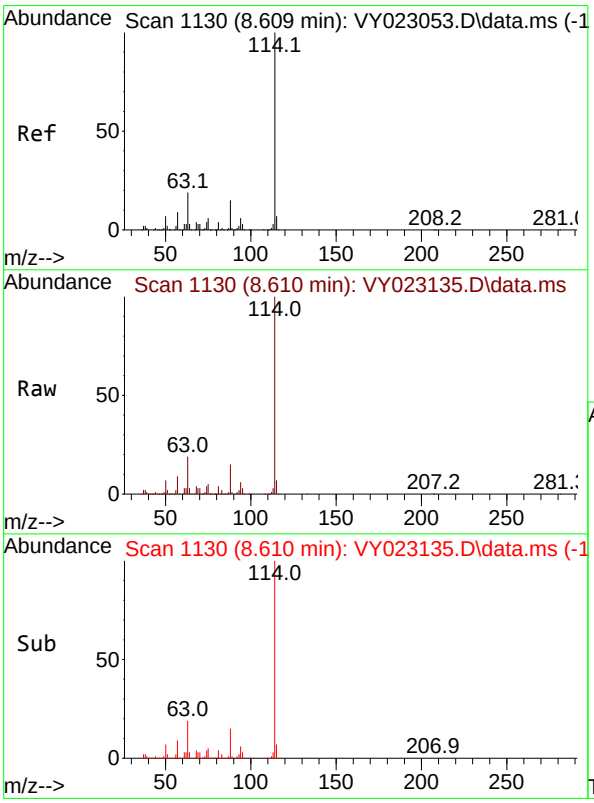
#33
1,2-Dichloroethane-d4
Concen: 51.127 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 209678

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8

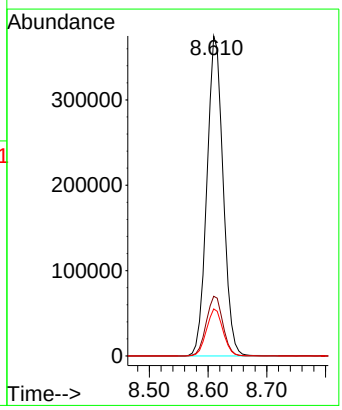


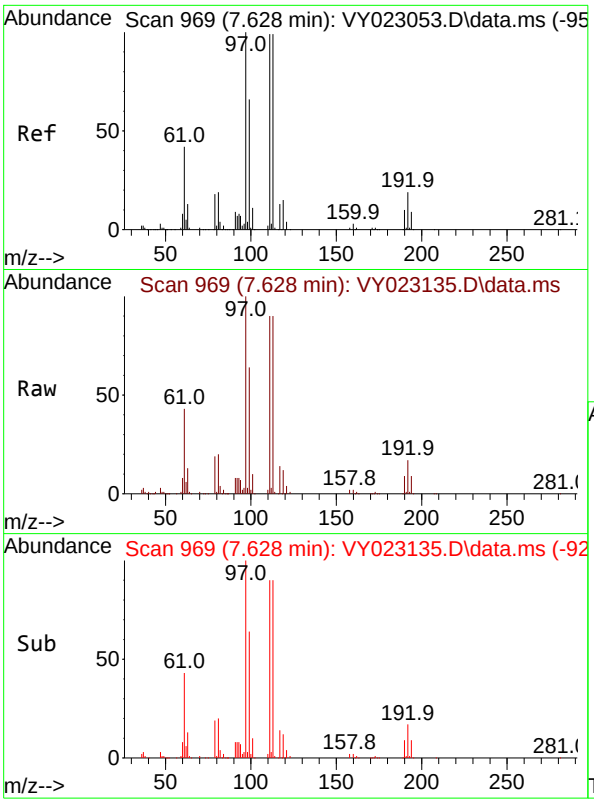


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:114 Resp: 718703

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	14.7	0.0	30.0



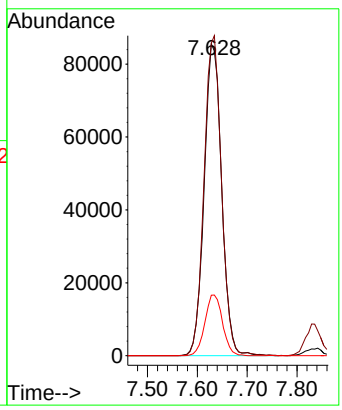


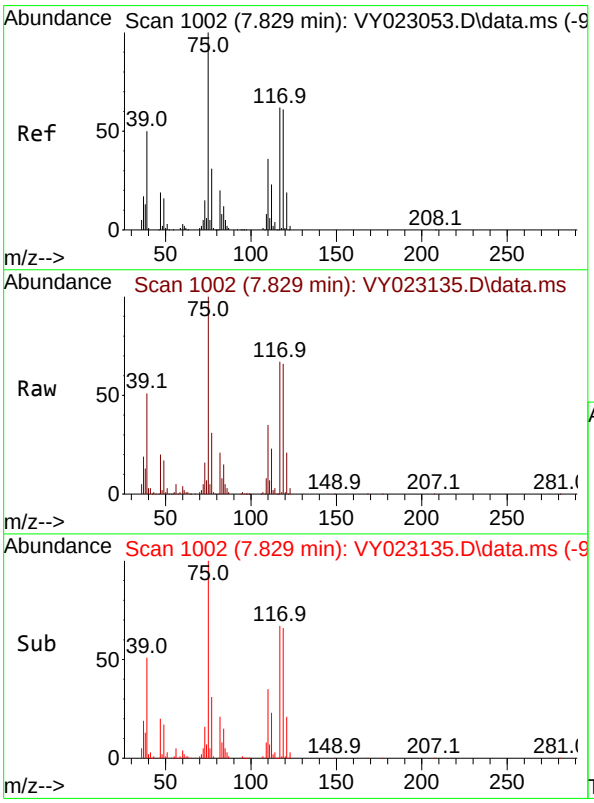
#35
Dibromofluoromethane
Concen: 48.501 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 208578

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	19.6	16.2	24.4

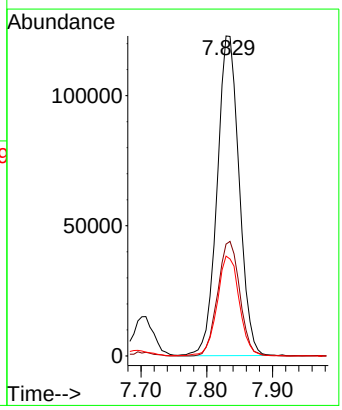


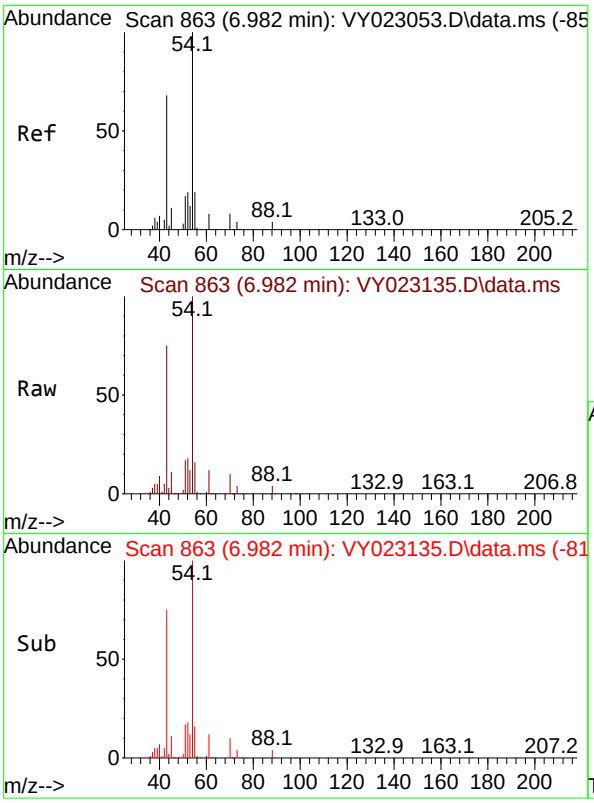


#36
1,1-Dichloropropene
Concen: 44.762 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 286083

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.4
77	31.5	24.6	37.0



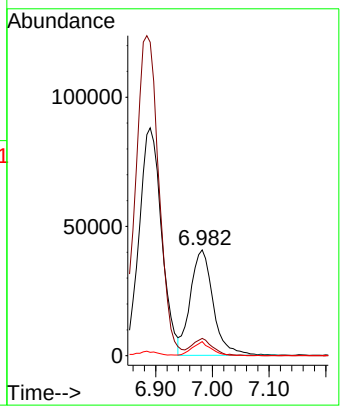


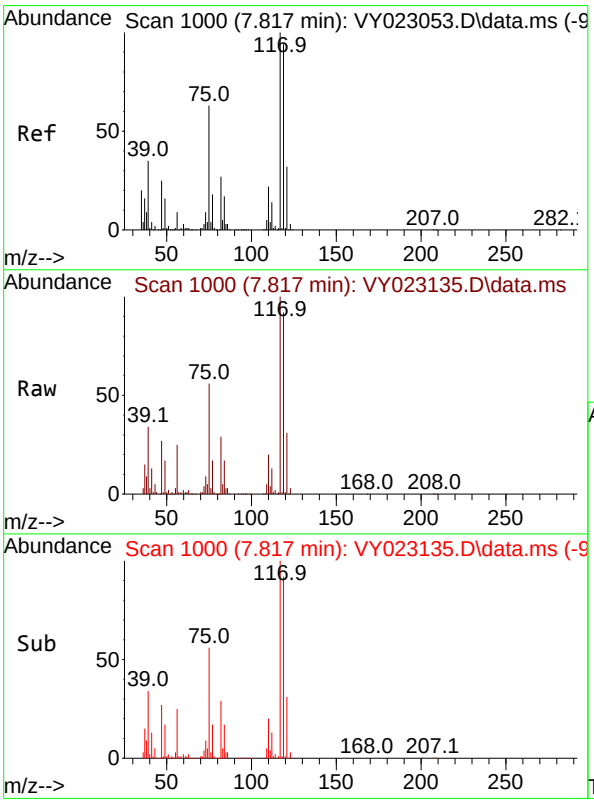
#37
Ethyl Acetate
Concen: 42.450 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 113967

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.9	17.9
70	11.1	8.8	13.2

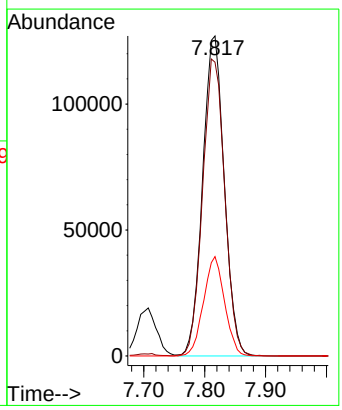


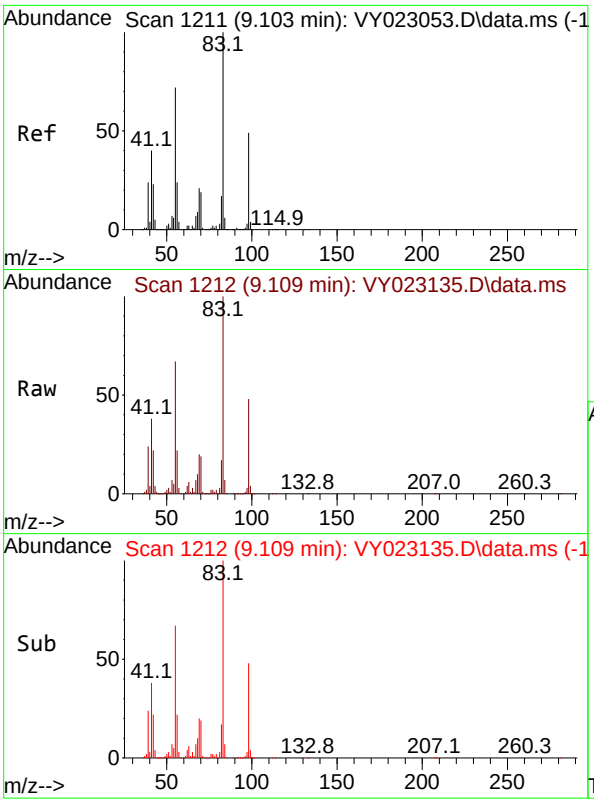


#38
Carbon Tetrachloride
Concen: 45.177 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:117 Resp: 313598

Ion	Ratio	Lower	Upper
117	100		
119	91.8	75.6	113.4
121	31.1	25.8	38.8



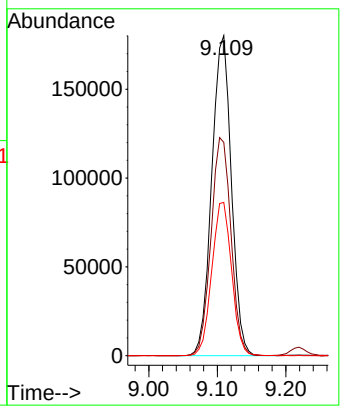


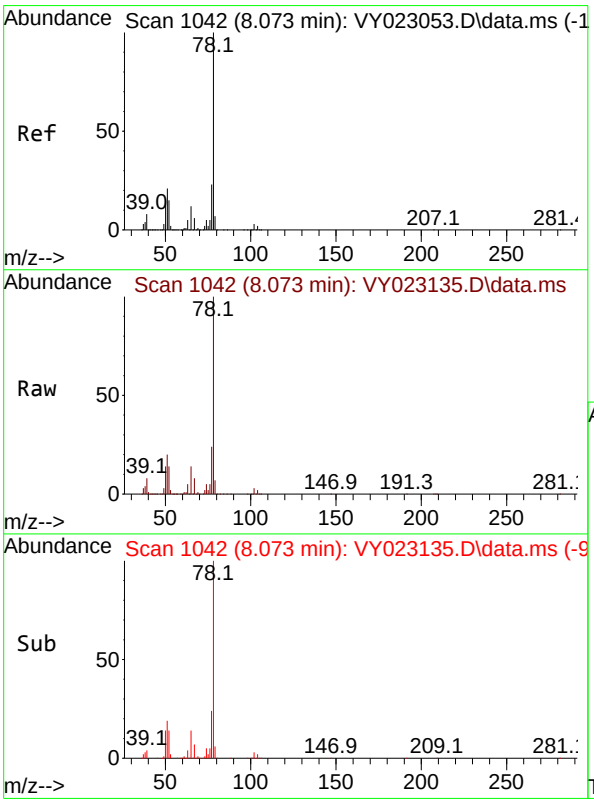
#39
Methylcyclohexane
Concen: 42.522 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 357877

Ion	Ratio	Lower	Upper
83	100		
55	66.6	57.6	86.4
98	47.9	39.2	58.8

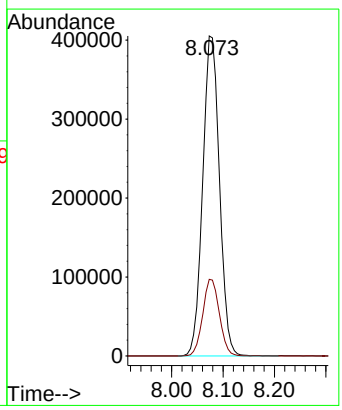


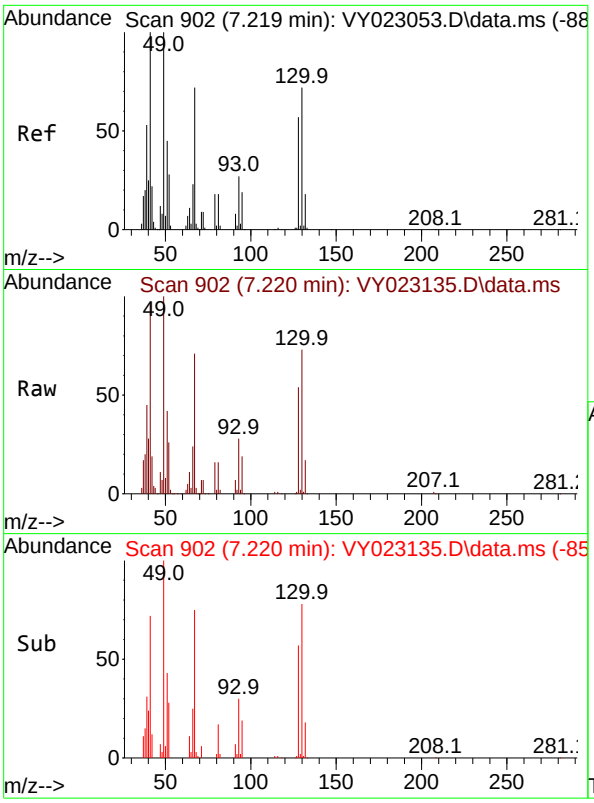


#40
Benzene
Concen: 46.514 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 78 Resp: 916243

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0



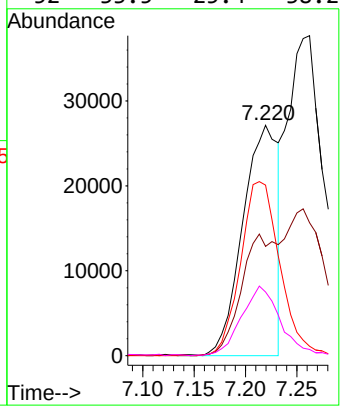


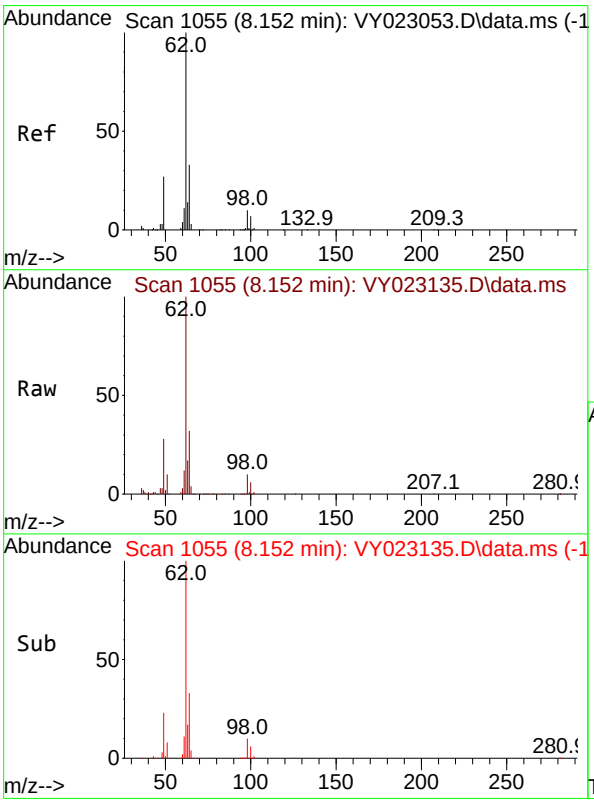
#41
Methacrylonitrile
Concen: 41.916 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 64946

Ion	Ratio	Lower	Upper
41	100		
39	53.5	43.4	65.2
67	84.4	63.6	95.4
52	33.5	25.4	38.2

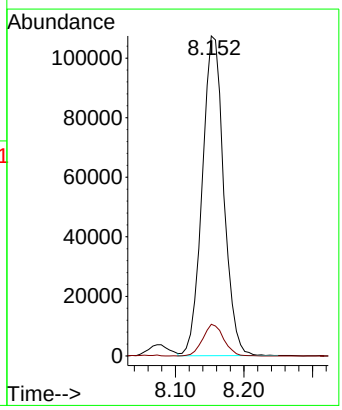


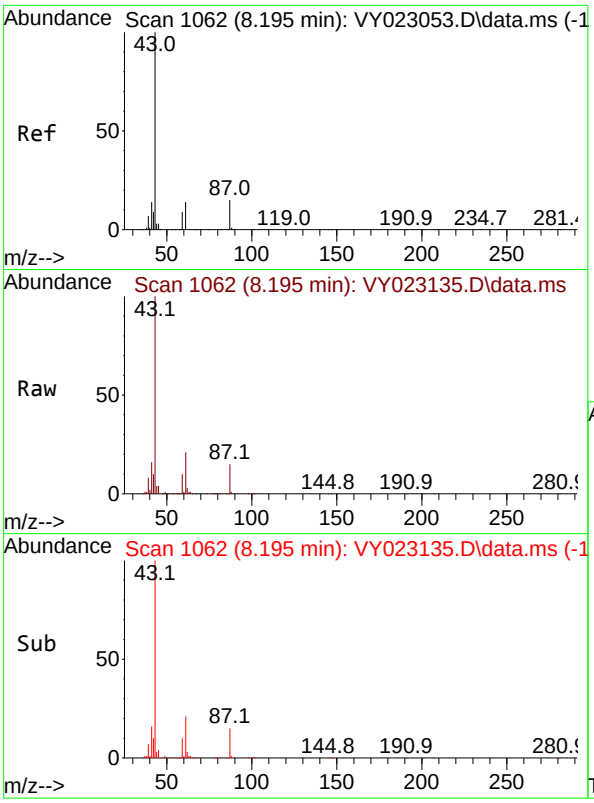


#42
1,2-Dichloroethane
Concen: 45.709 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 62 Resp: 234175

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	20.6



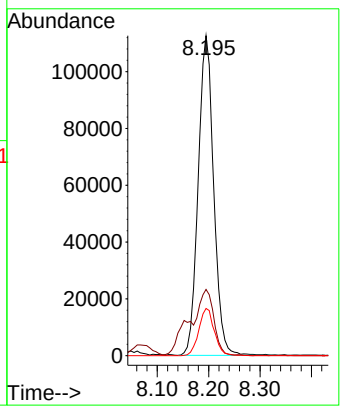


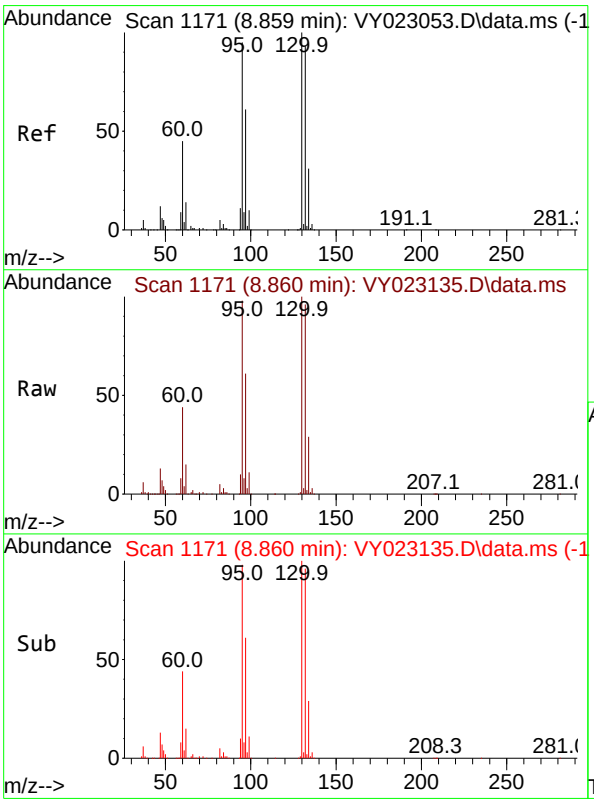
#43
Isopropyl Acetate
Concen: 43.470 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 235882

Ion	Ratio	Lower	Upper
43	100		
61	20.8	16.4	24.6
87	14.8	11.8	17.6

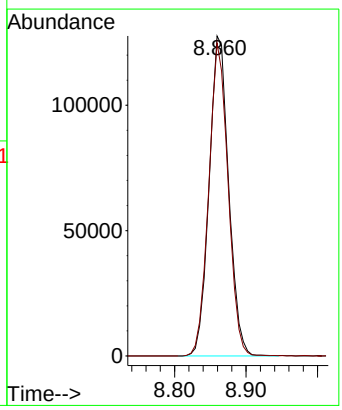


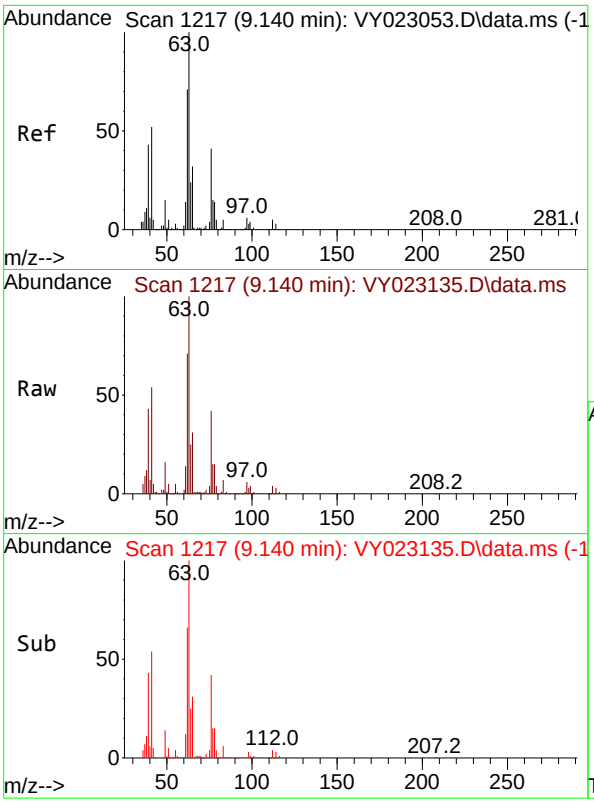


#44
Trichloroethene
Concen: 47.535 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:130 Resp: 241977

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	190.2



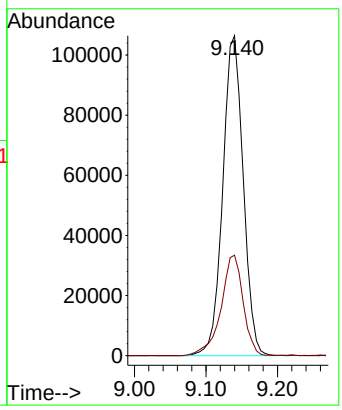


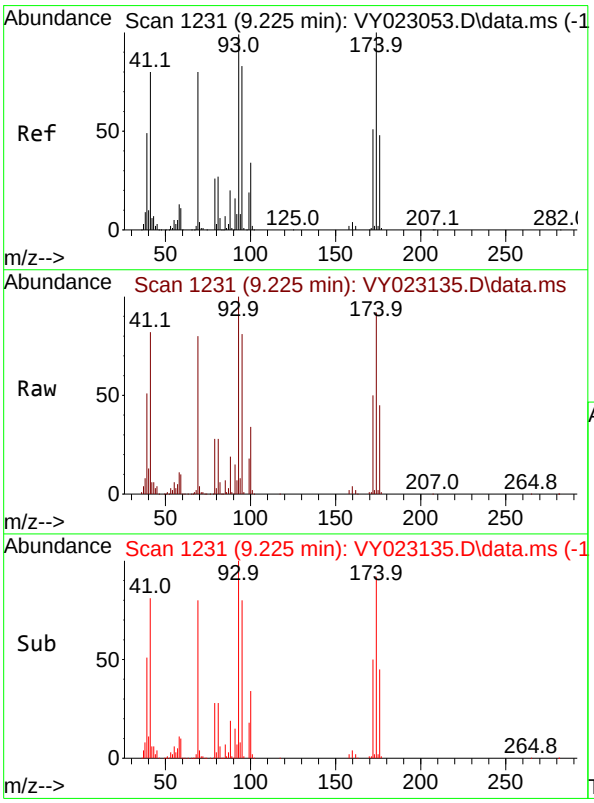
#45
1,2-Dichloropropane
Concen: 46.657 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 211470

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.3	37.9

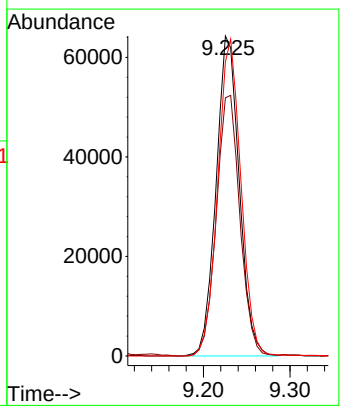


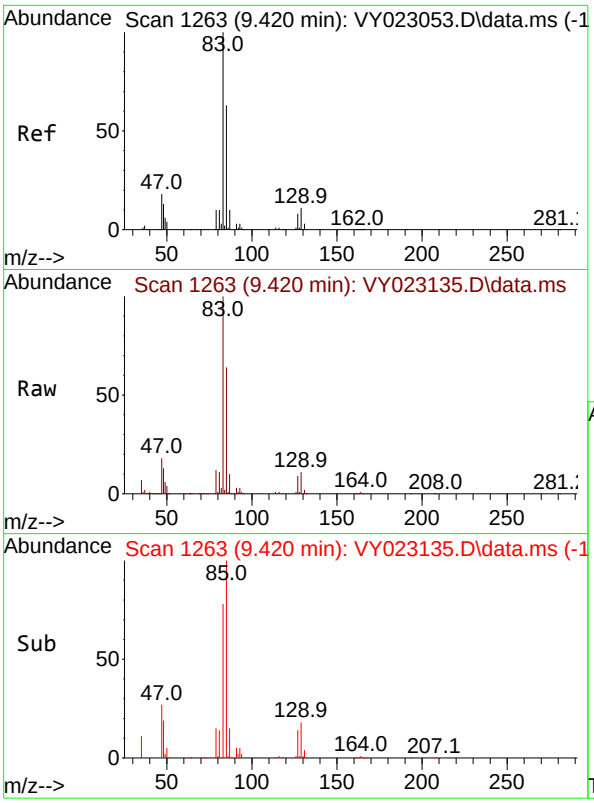


#46
Dibromomethane
Concen: 45.999 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 93 Resp: 119663

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.5	99.7
174	99.1	81.8	122.8



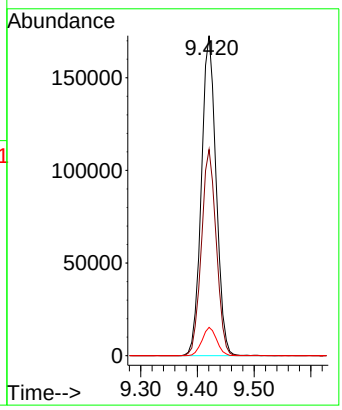


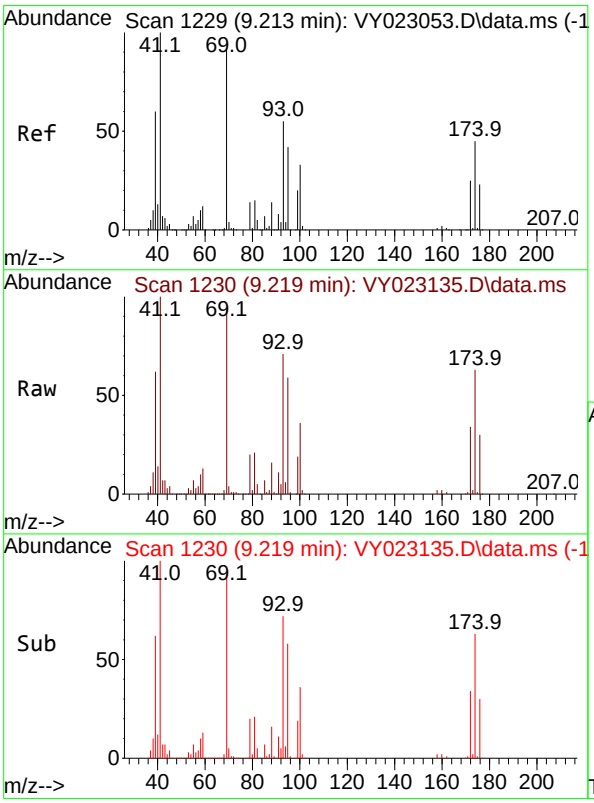
#47
Bromodichloromethane
Concen: 46.439 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 310859

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.2	75.4
127	8.9	6.6	10.0

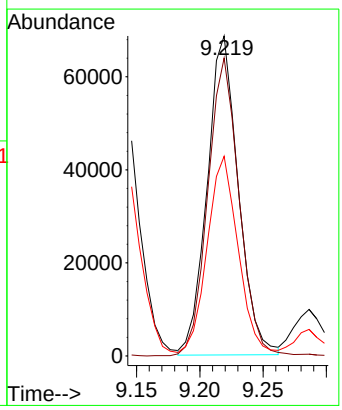


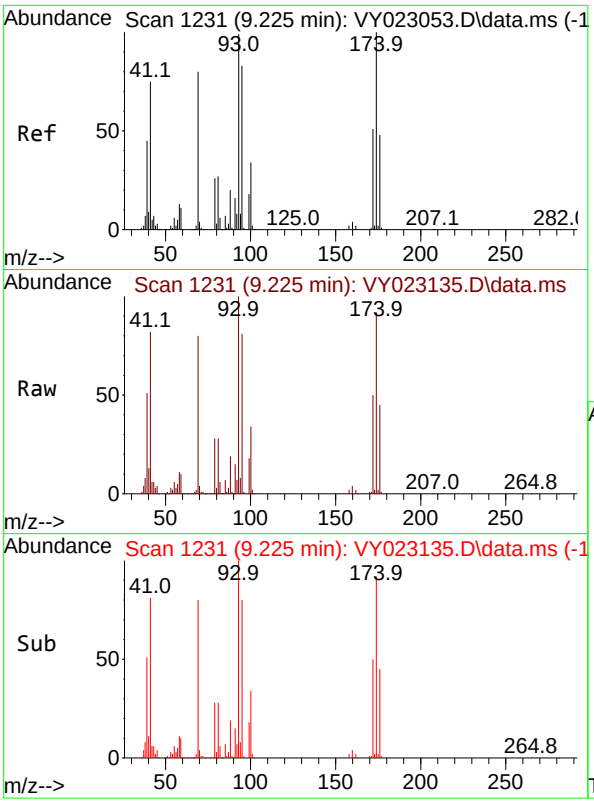


#48
Methyl methacrylate
Concen: 45.295 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 41 Resp: 117614

Ion	Ratio	Lower	Upper
41	100		
69	93.9	73.2	109.8
39	60.4	47.0	70.4



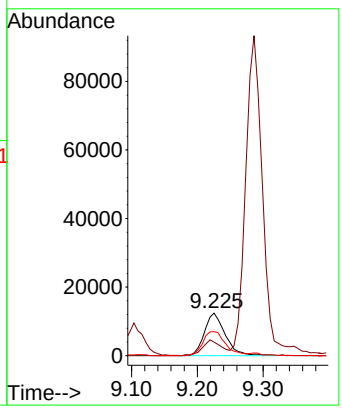


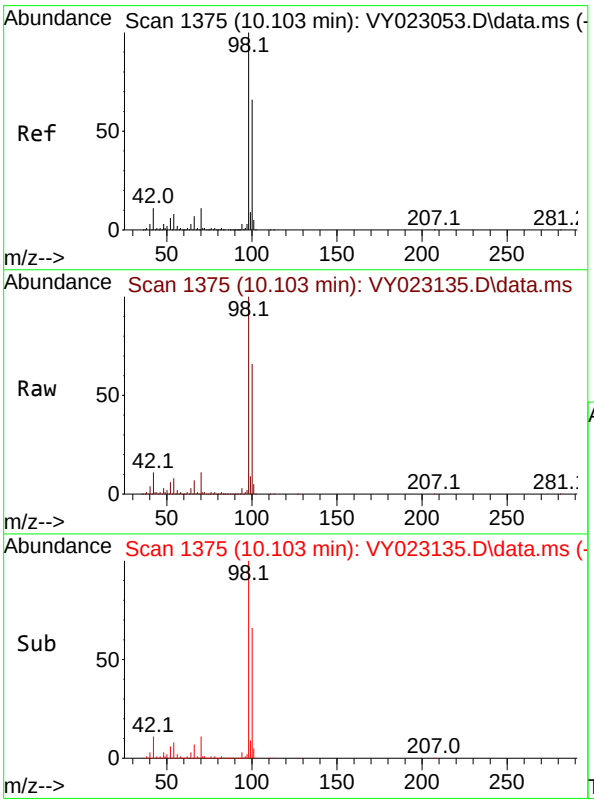
#49
1,4-Dioxane
Concen: 902.014 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 27514

Ion	Ratio	Lower	Upper
88	100		
43	32.9	24.3	36.5
58	61.0	55.4	83.0

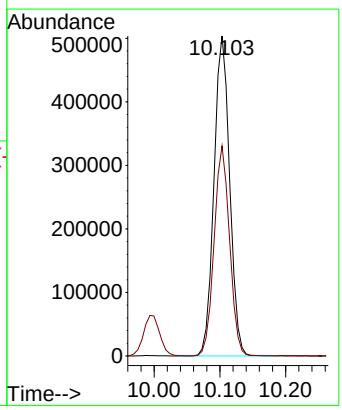


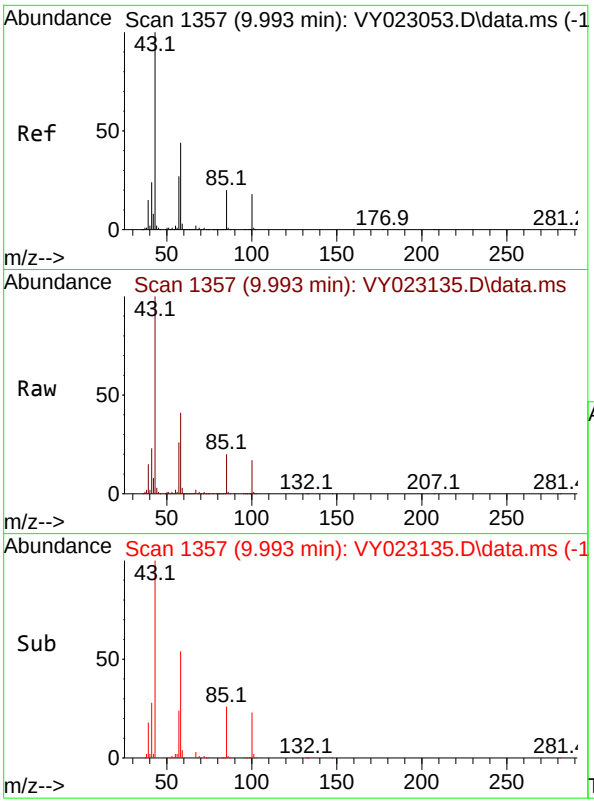


#50
Toluene-d8
Concen: 49.738 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 98 Resp: 835617

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.3	78.5



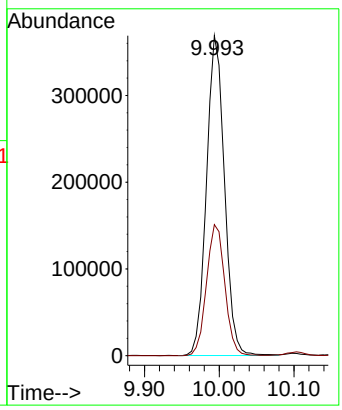


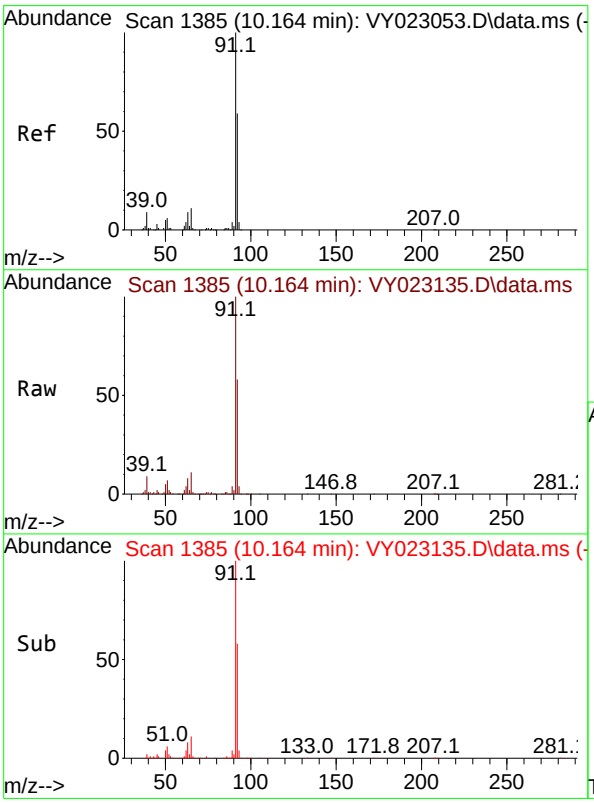
#51
4-Methyl-2-Pentanone
Concen: 219.870 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 615423

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3

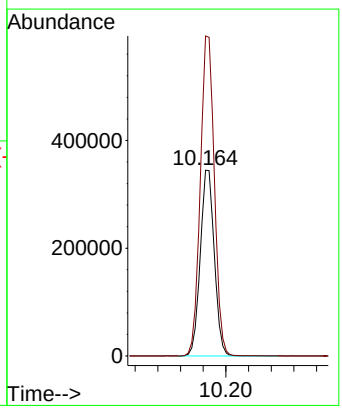


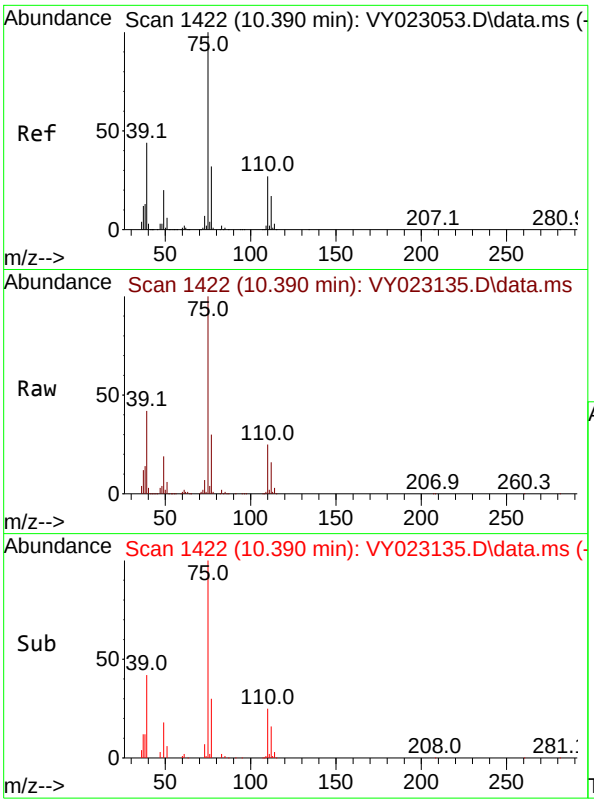


#52
Toluene
Concen: 47.285 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 92 Resp: 591580

Ion	Ratio	Lower	Upper
92	100		
91	172.9	136.4	204.6



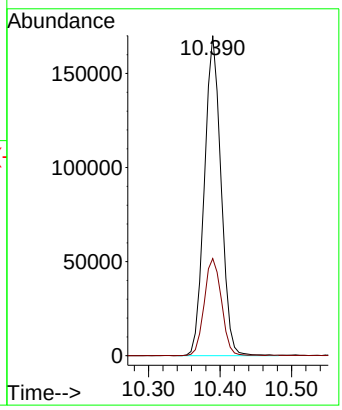


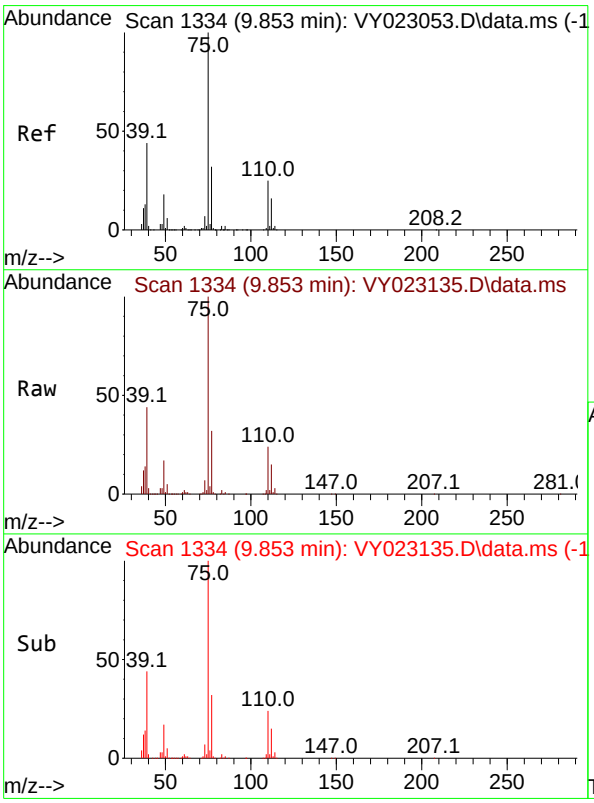
#53
t-1,3-Dichloropropene
Concen: 45.264 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 274370

Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.7	38.5

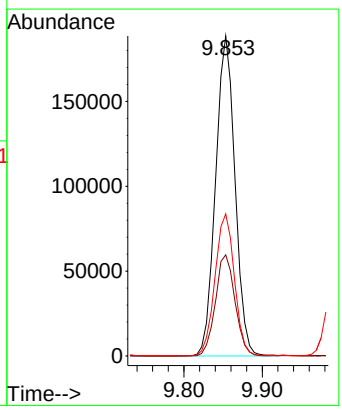


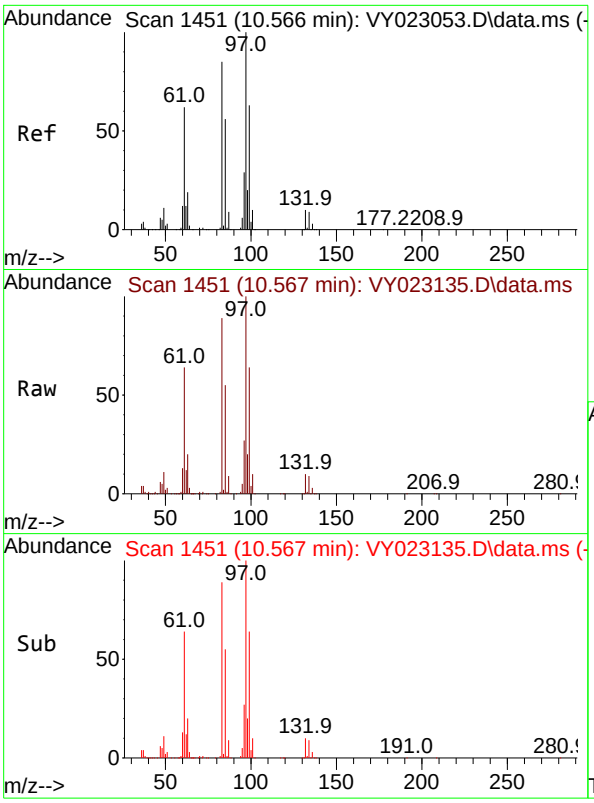


#54
cis-1,3-Dichloropropene
Concen: 45.347 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 325037

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.0
39	44.4	35.6	53.4



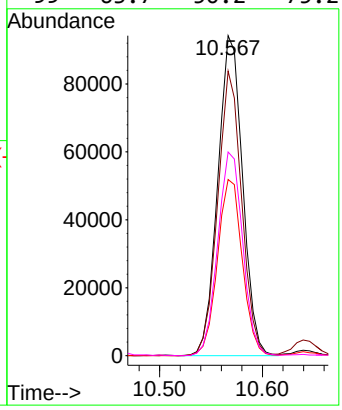


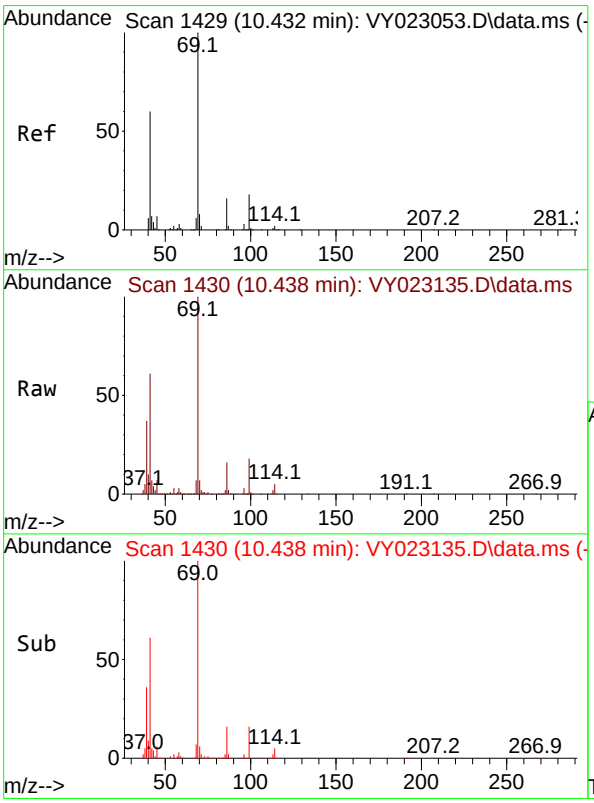
#55
1,1,2-Trichloroethane
Concen: 45.358 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 157893

Ion	Ratio	Lower	Upper
97	100		
83	89.0	67.7	101.5
85	55.1	44.5	66.7
99	63.7	50.2	75.2

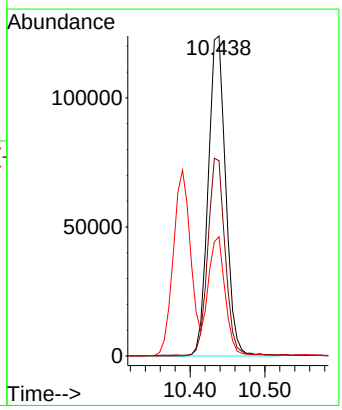


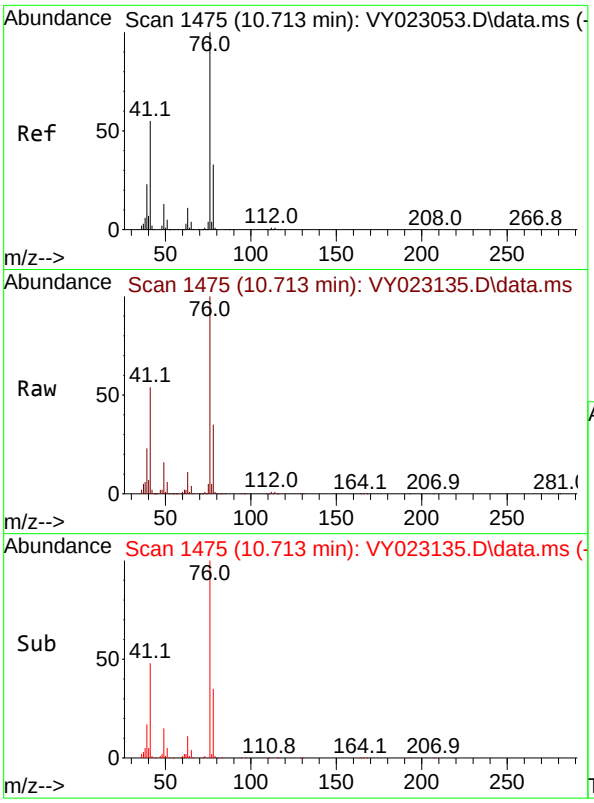


#56
Ethyl methacrylate
Concen: 45.302 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 69 Resp: 201789

Ion	Ratio	Lower	Upper
69	100		
41	61.9	48.6	72.8
39	35.7	27.0	40.4



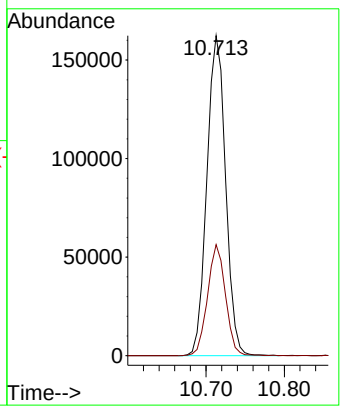


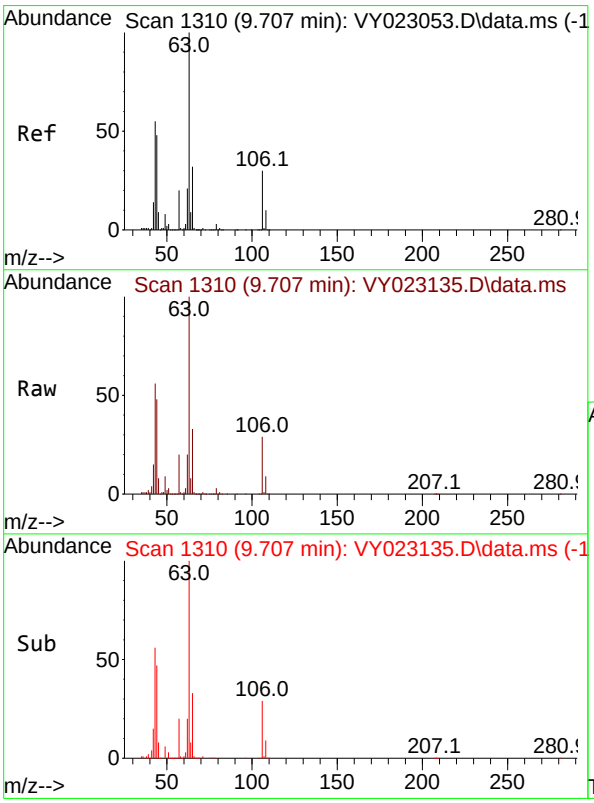
#57
1,3-Dichloropropane
Concen: 45.582 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 269094

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.0	39.0

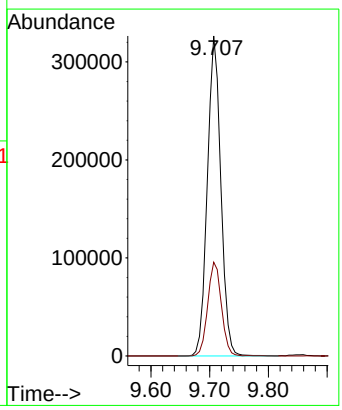


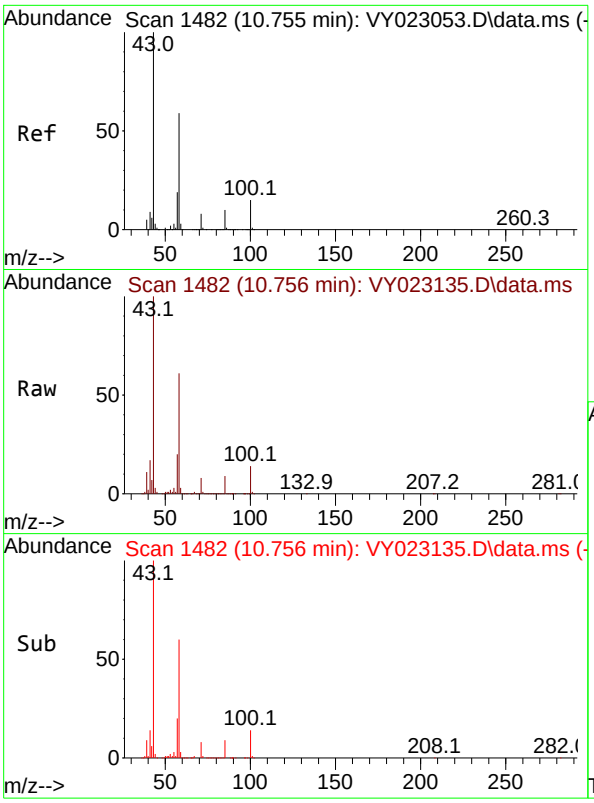


#58
2-Chloroethyl Vinyl ether
Concen: 247.890 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 63 Resp: 520841

Ion	Ratio	Lower	Upper
63	100		
106	29.7	23.2	34.8



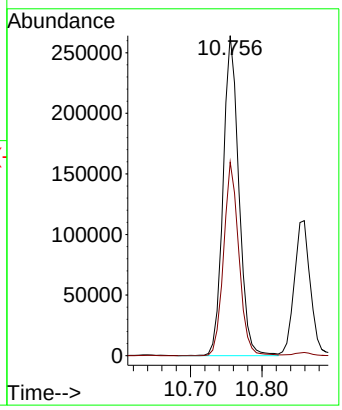


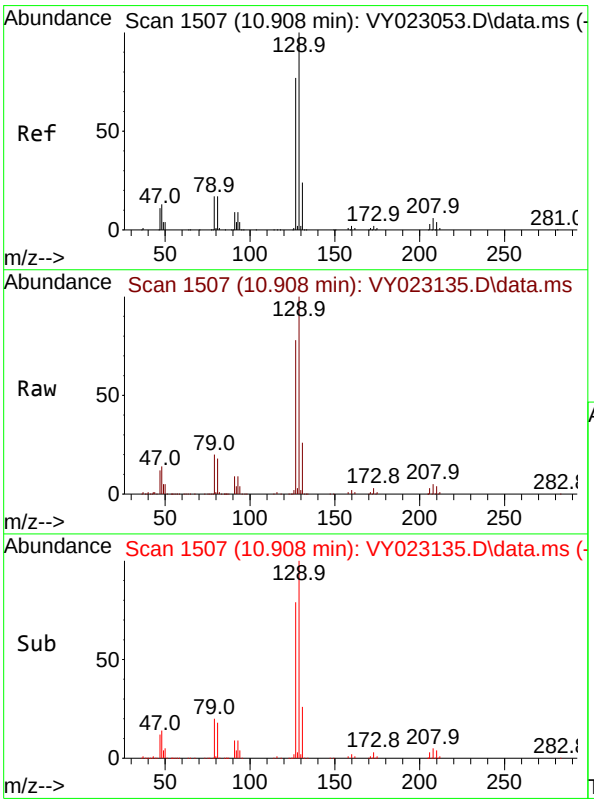
#59
2-Hexanone
Concen: 211.536 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 403176

Ion	Ratio	Lower	Upper
43	100		
58	58.6	29.5	88.5

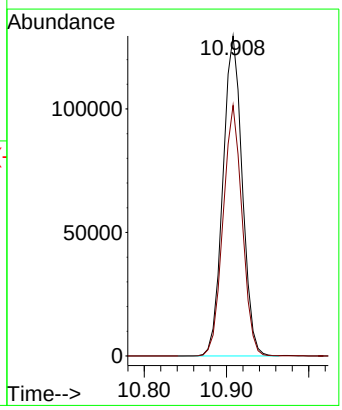


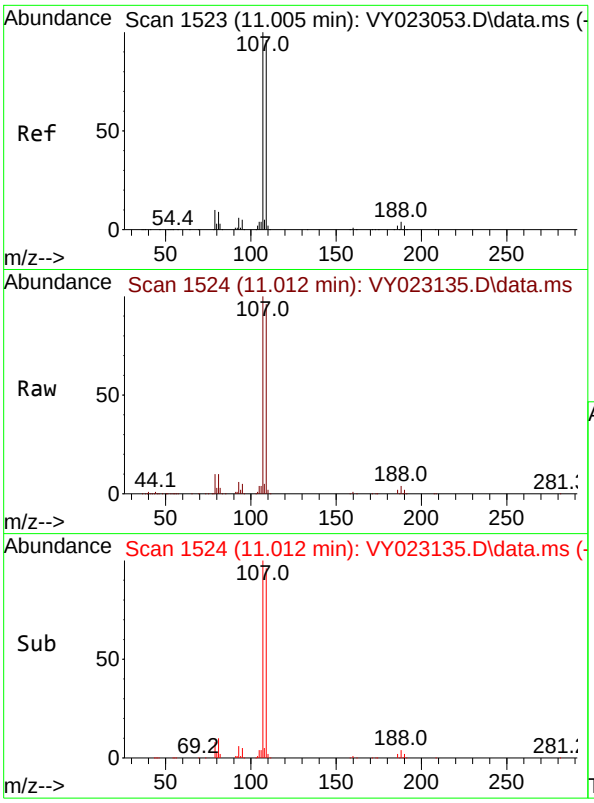


#60
Dibromochloromethane
Concen: 46.058 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:129 Resp: 211553

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5



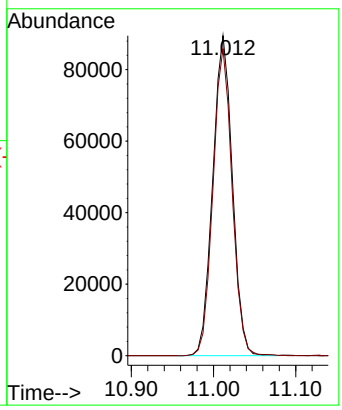


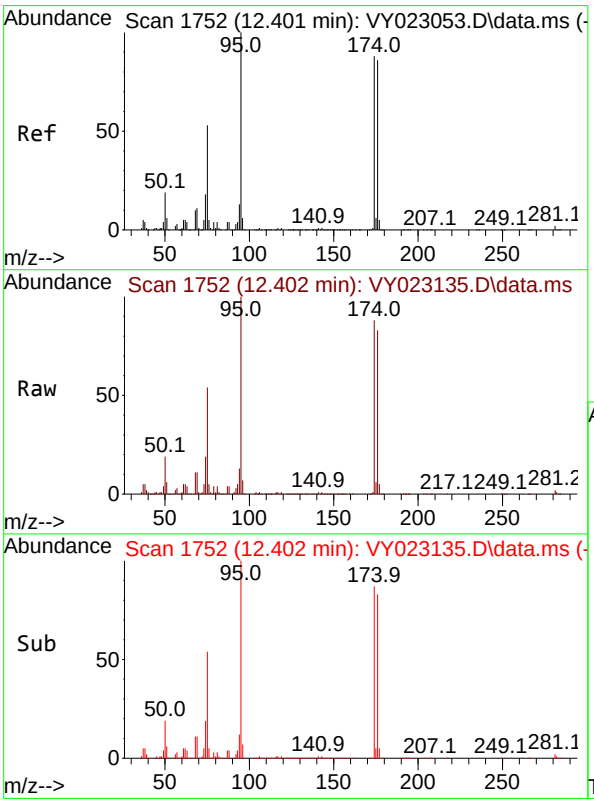
#61
1,2-Dibromoethane
Concen: 45.352 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 148382

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.6	113.4

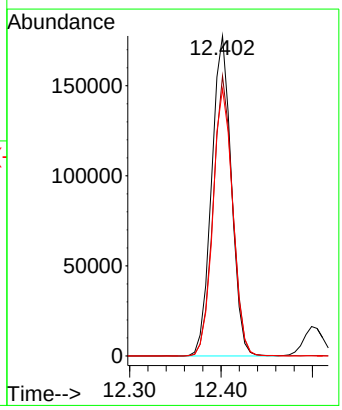


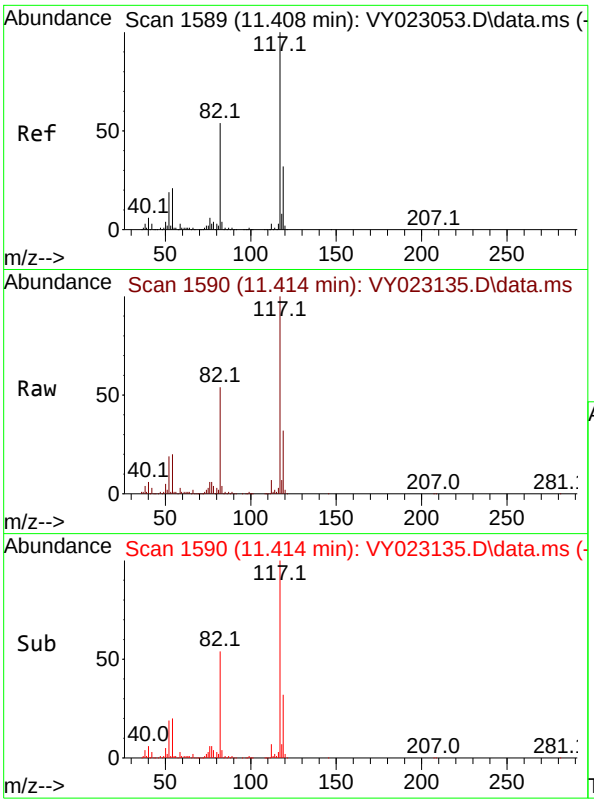


#62
4-Bromofluorobenzene
Concen: 49.275 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 95 Resp: 266231

Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	171.6
176	84.1	0.0	167.6



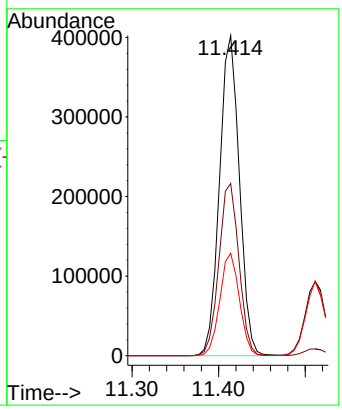


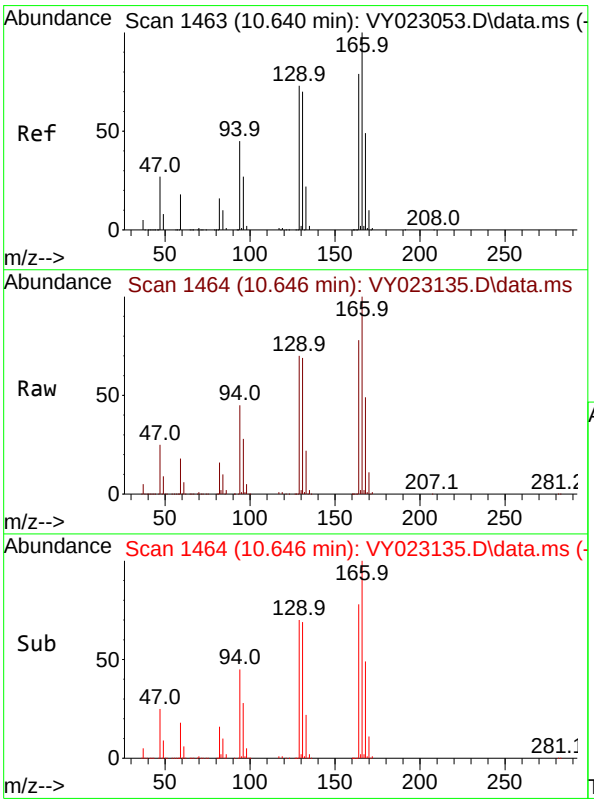
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 640791

Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.4	65.0
119	32.0	25.6	38.4

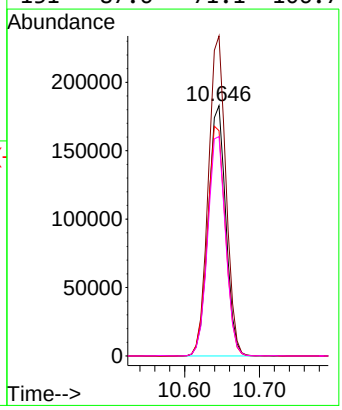


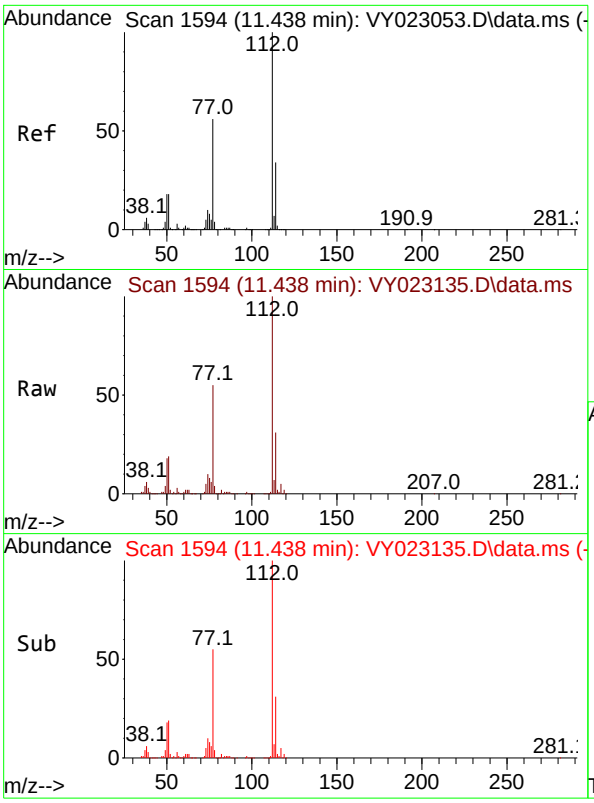


#64
Tetrachloroethene
Concen: 52.075 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:164 Resp: 297964

Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.1	151.7
129	90.0	74.0	111.0
131	87.6	71.1	106.7



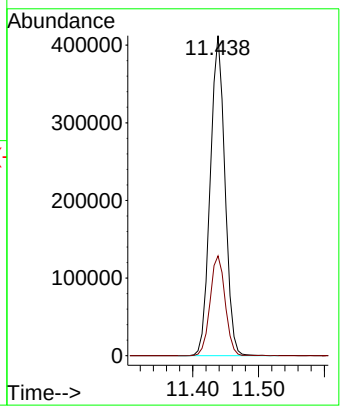


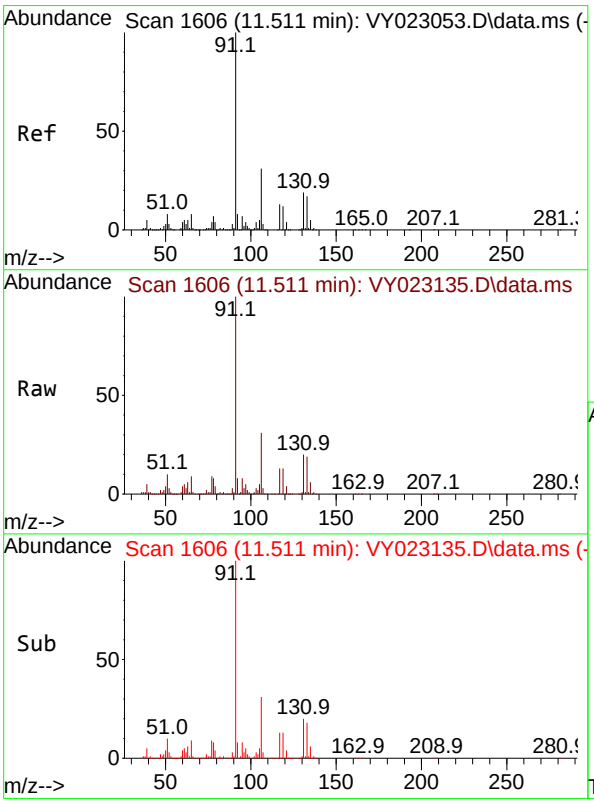
#65
Chlorobenzene
Concen: 46.339 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 640496

Ion	Ratio	Lower	Upper
112	100		
114	31.2	27.0	40.4

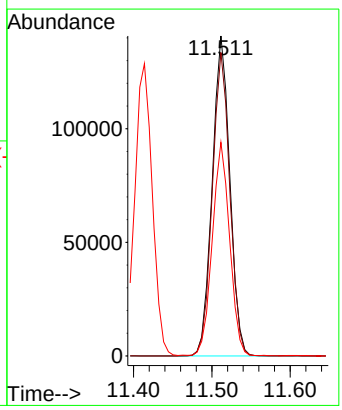


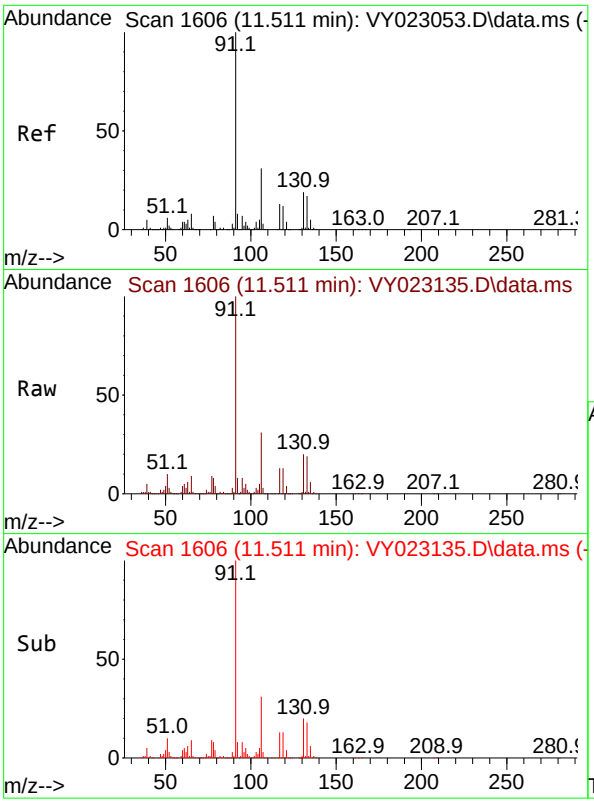


#66
1,1,1,2-Tetrachloroethane
Concen: 46.876 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:131 Resp: 219895

Ion	Ratio	Lower	Upper
131	100		
133	94.4	46.9	140.6
119	65.9	33.2	99.6



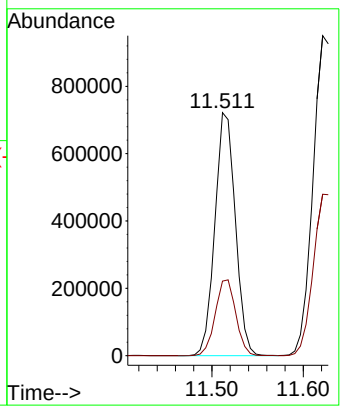


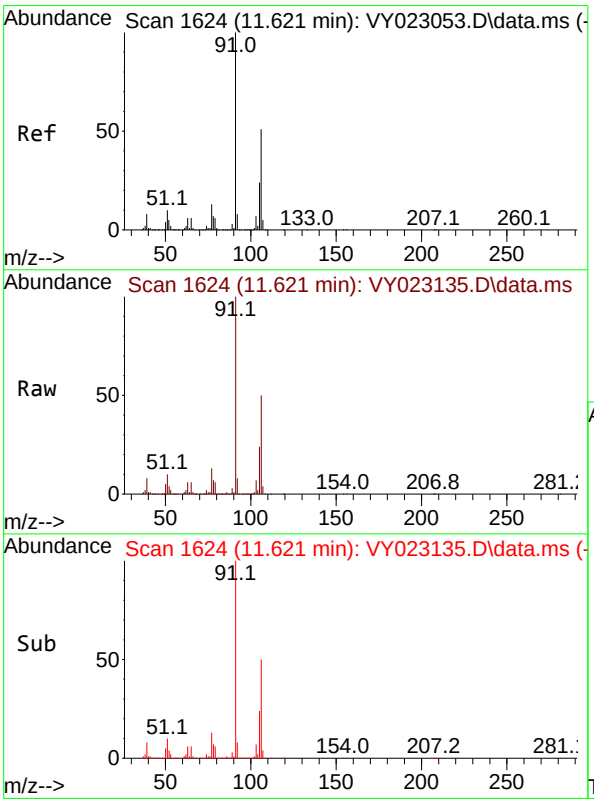
#67
Ethyl Benzene
Concen: 47.266 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1124279

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.0	37.4

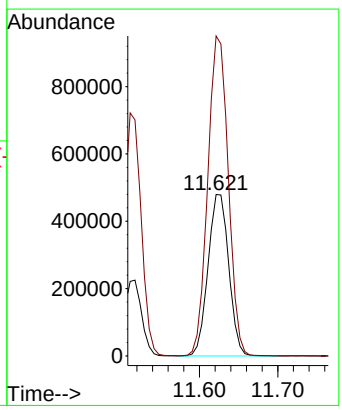


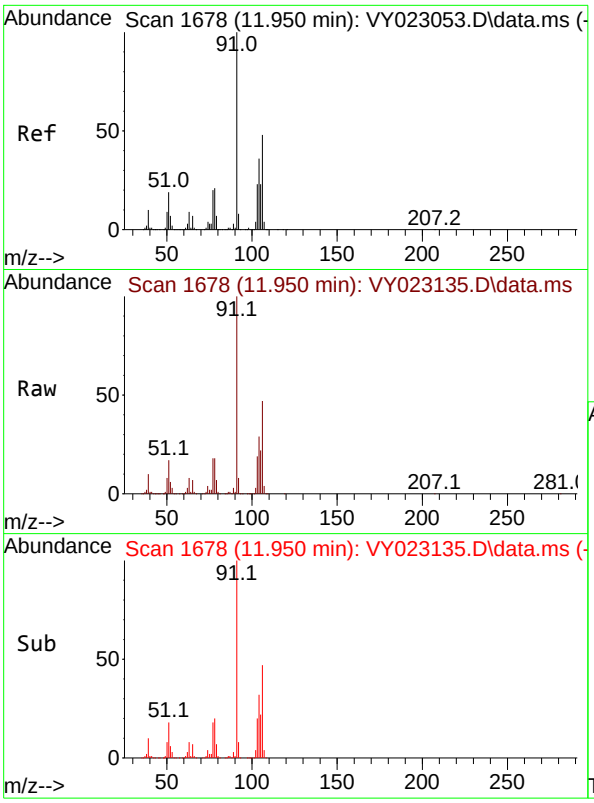


#68
m/p-Xylenes
Concen: 94.610 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:106 Resp: 878925

Ion	Ratio	Lower	Upper
106	100		
91	196.6	158.6	238.0



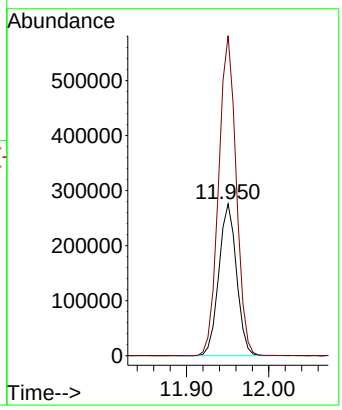


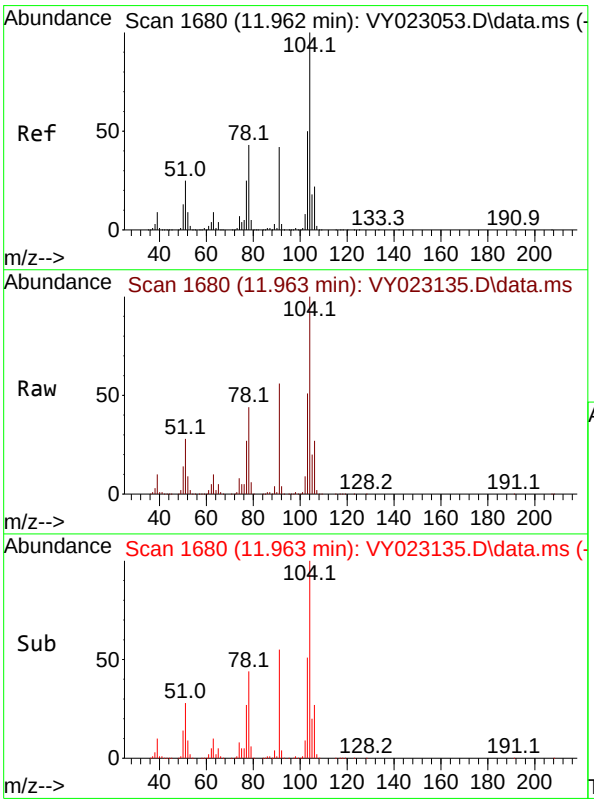
#69
o-Xylene
Concen: 47.384 ug/l
RT: 11.950 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 412282

Ion	Ratio	Lower	Upper
106	100		
91	210.0	103.2	309.4

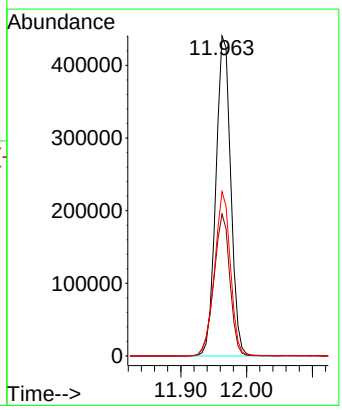


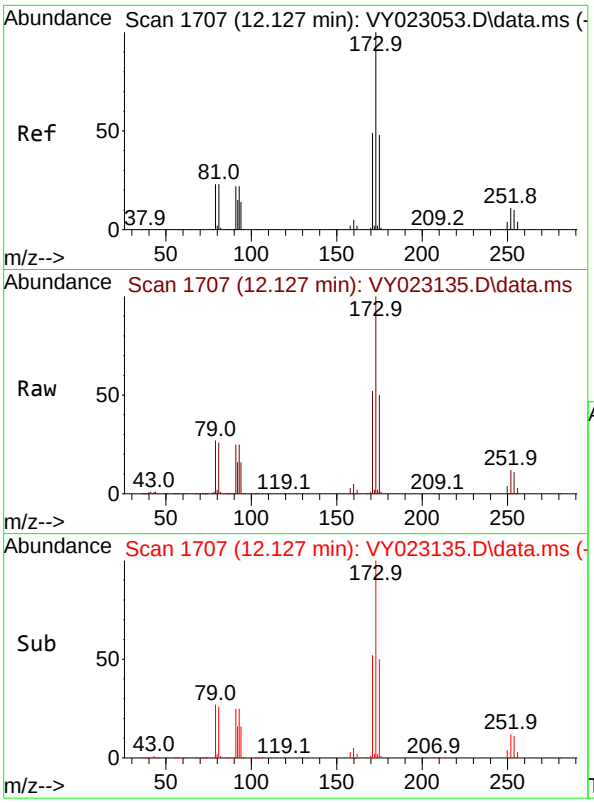


#70
Styrene
Concen: 48.738 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:104 Resp: 693511

Ion	Ratio	Lower	Upper
104	100		
78	47.7	38.5	57.7
103	54.8	43.7	65.5



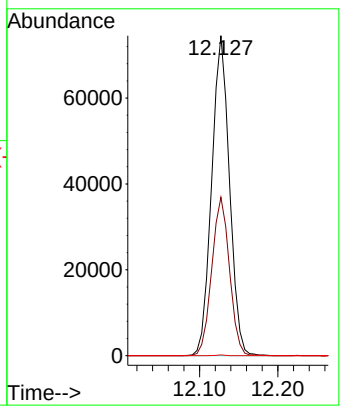


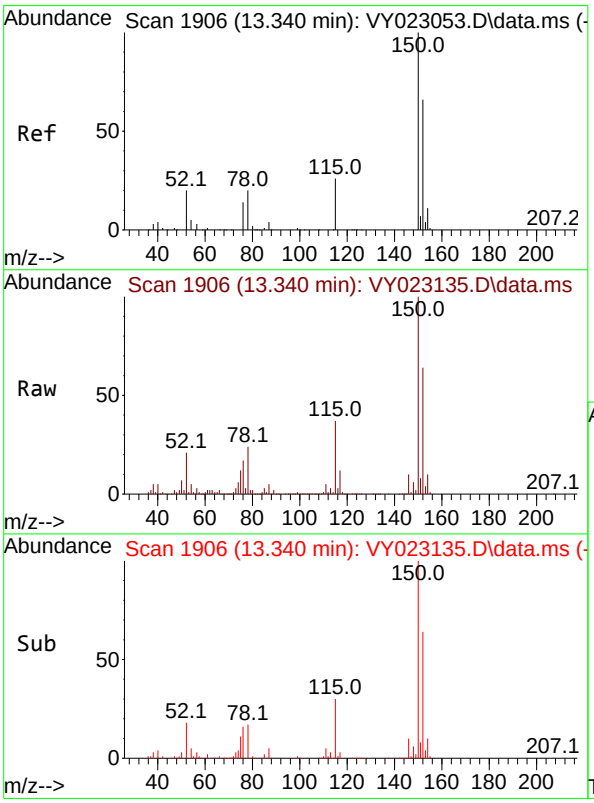
#71
Bromoform
Concen: 42.892 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 117595

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.9	71.7
254	0.1	0.1	0.1

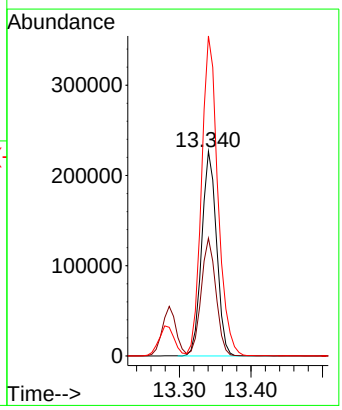


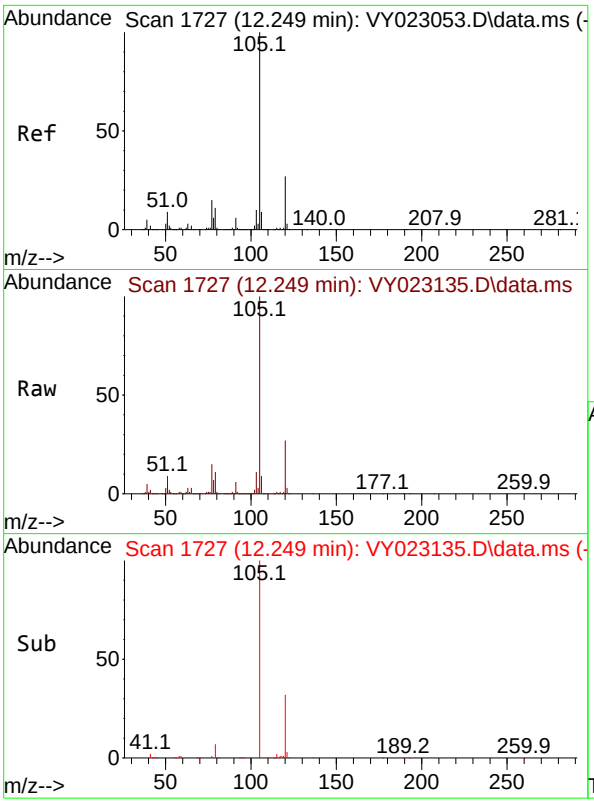


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:152 Resp: 327055

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.6
150	172.0	0.0	348.0



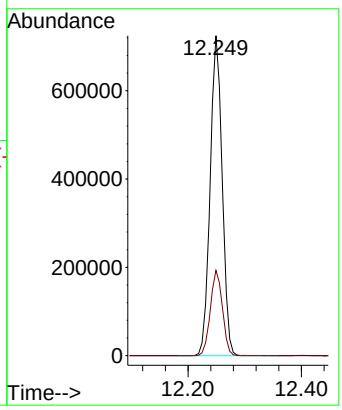


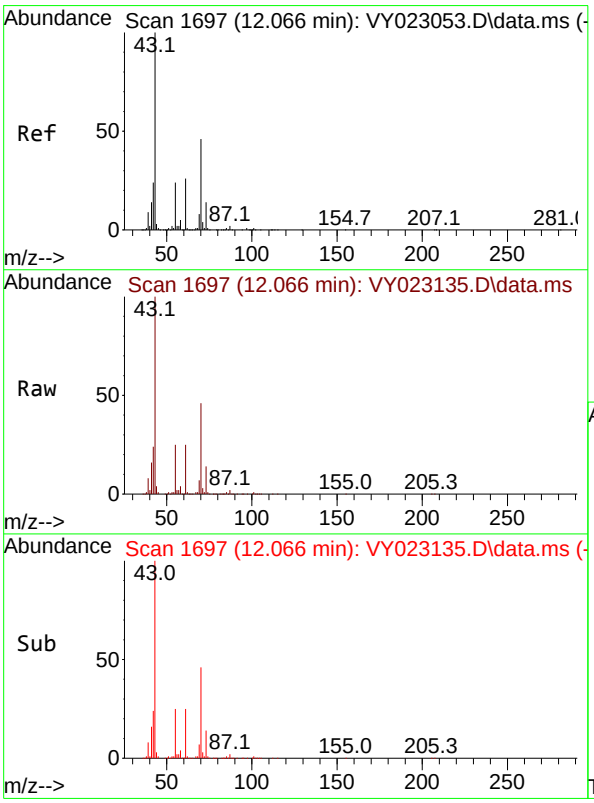
#73
Isopropylbenzene
Concen: 46.232 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1067182

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2

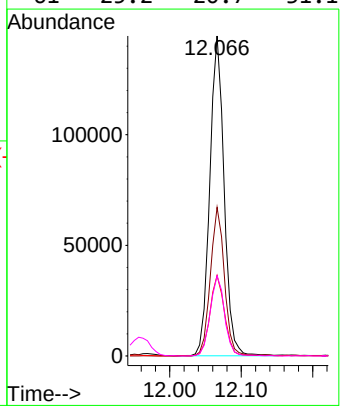


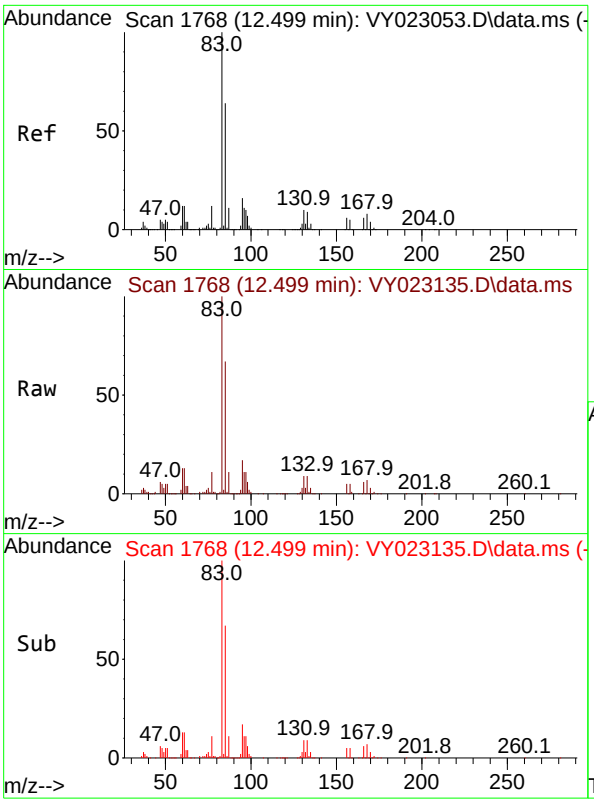


#74
N-amyl acetate
Concen: 41.170 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 43 Resp: 201534

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.5	56.3
55	25.7	20.7	31.1
61	25.2	20.7	31.1



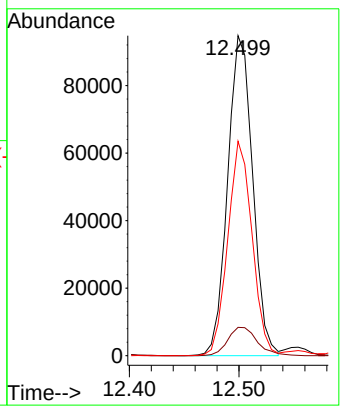


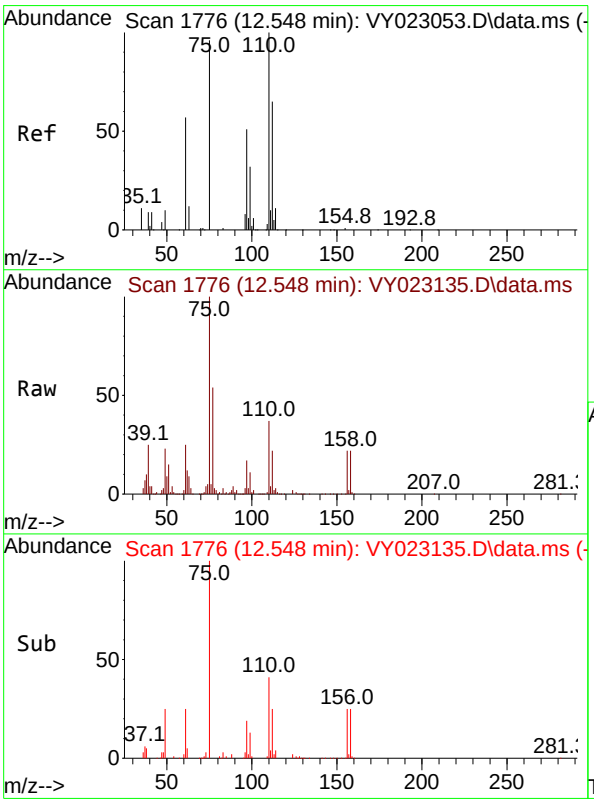
#75
1,1,2,2-Tetrachloroethane
Concen: 38.093 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 150140

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	65.2	31.8	95.3

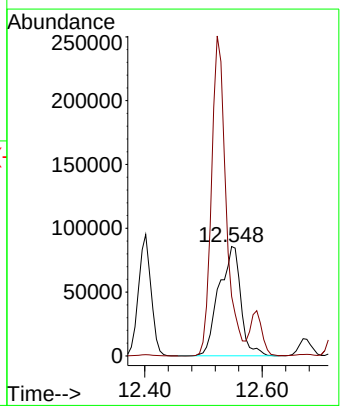


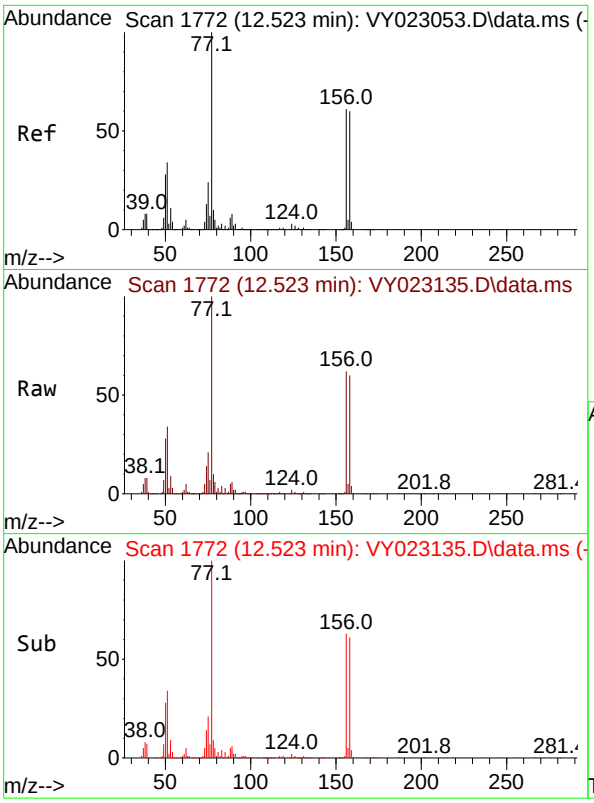


#76
1,2,3-Trichloropropane
Concen: 70.064 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 221151

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



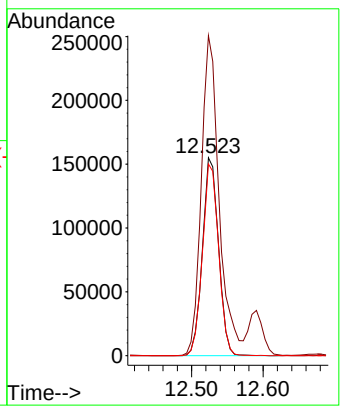


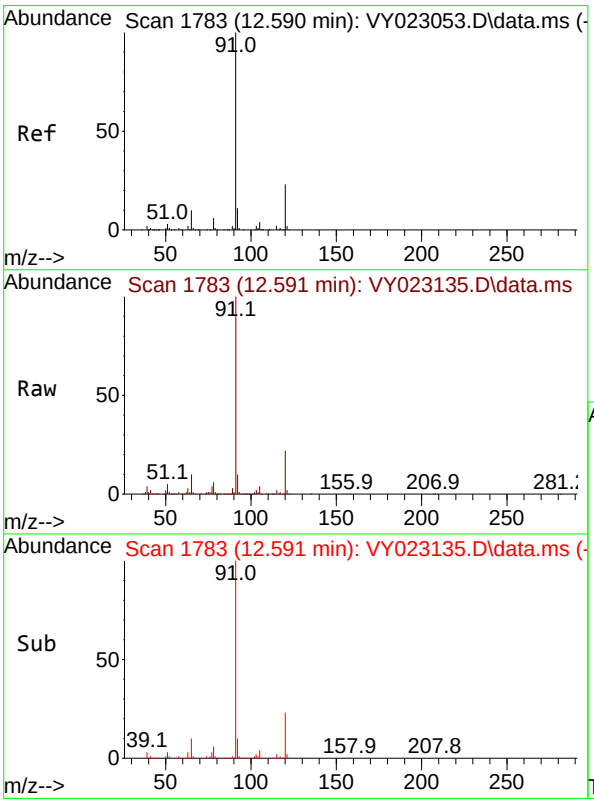
#77
Bromobenzene
Concen: 44.080 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 242744

Ion	Ratio	Lower	Upper
156	100		
77	179.2	88.1	264.4
158	97.3	48.0	144.0

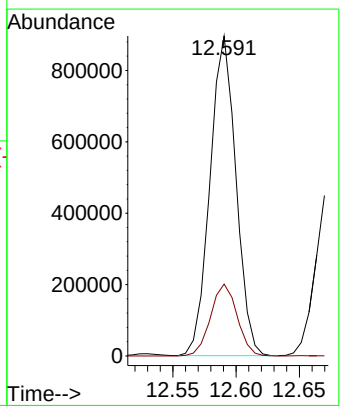


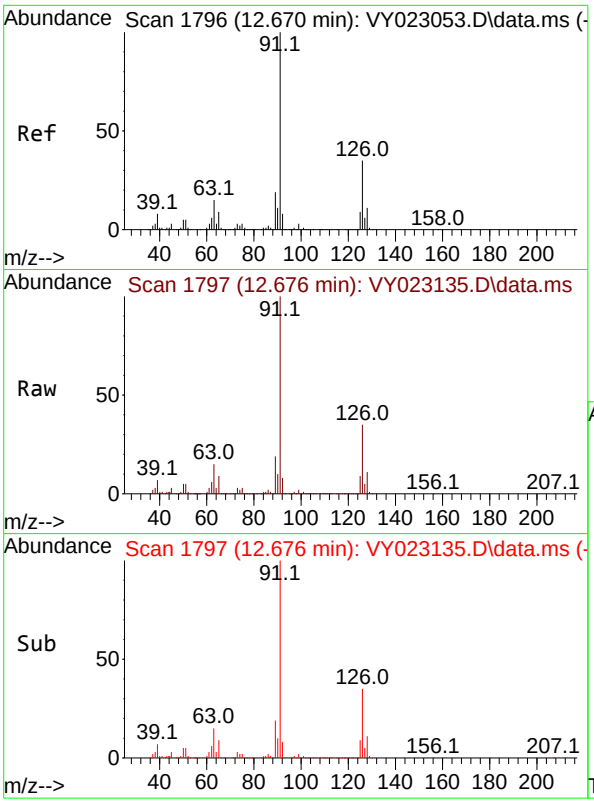


#78
n-propylbenzene
Concen: 46.593 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 1280468

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



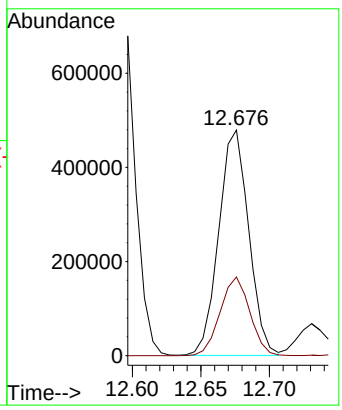


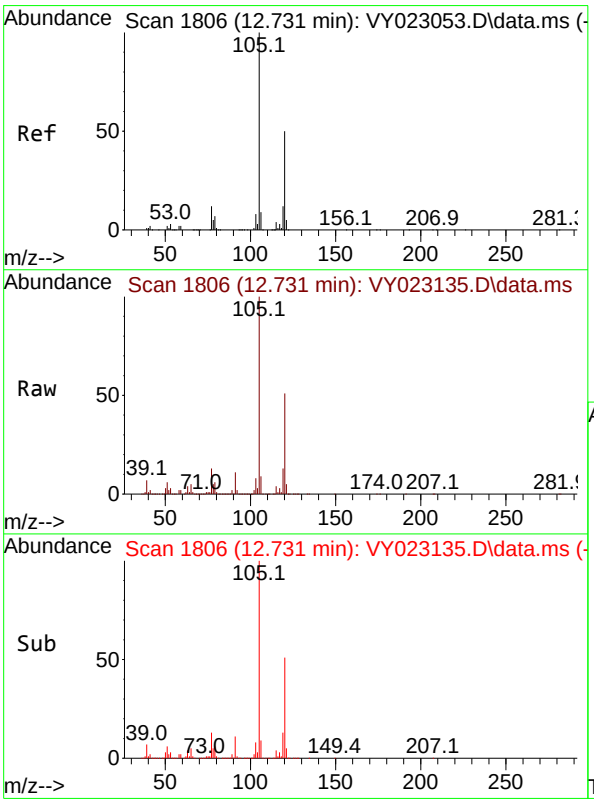
#79
2-Chlorotoluene
Concen: 46.284 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 728787

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.4	52.3

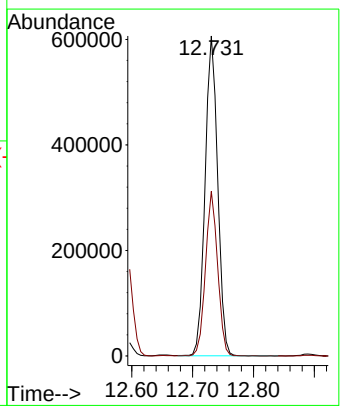


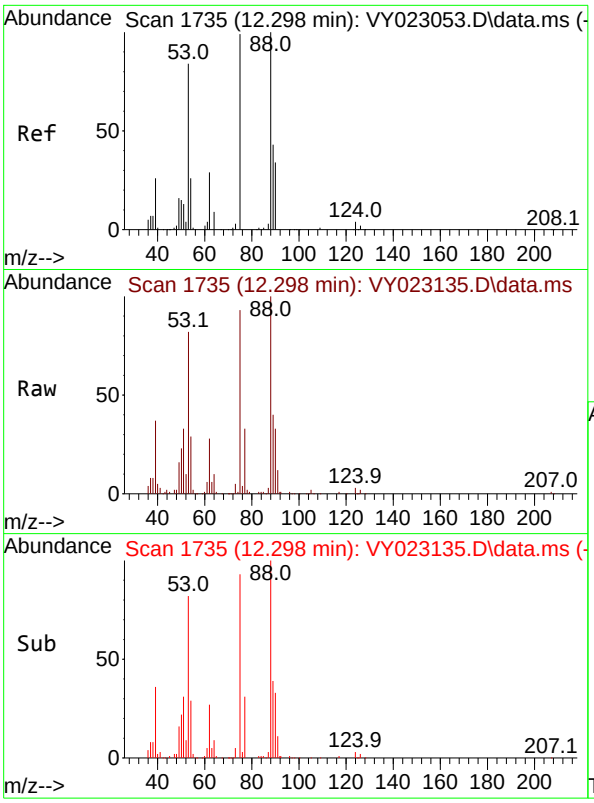


#80
1,3,5-Trimethylbenzene
Concen: 46.663 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:105 Resp: 870525

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



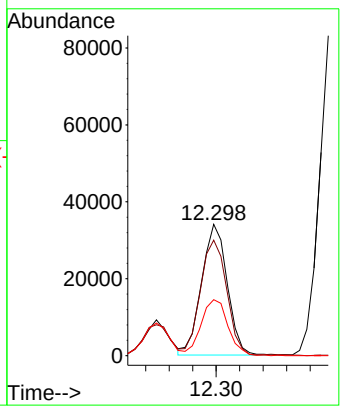


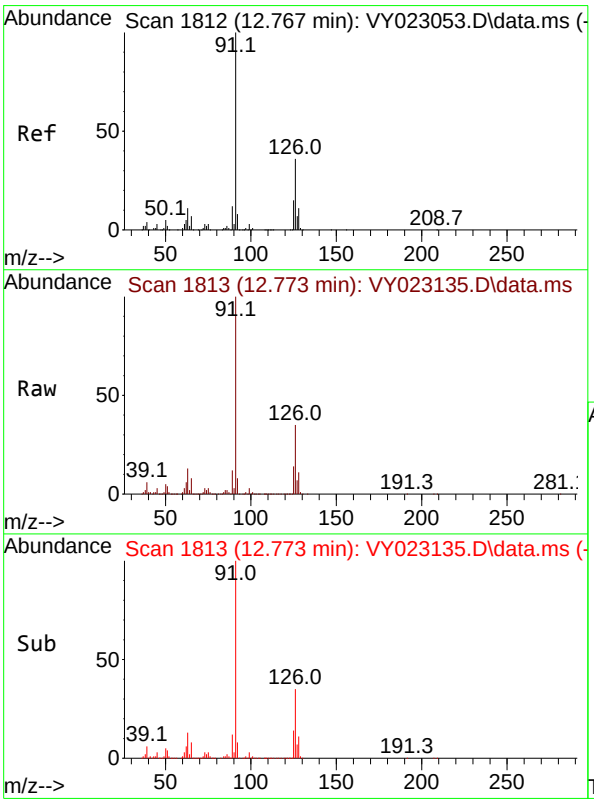
#81
trans-1,4-Dichloro-2-butene
Concen: 39.640 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 51688

Ion	Ratio	Lower	Upper
75	100		
53	89.8	70.8	106.2
89	44.6	38.1	57.1

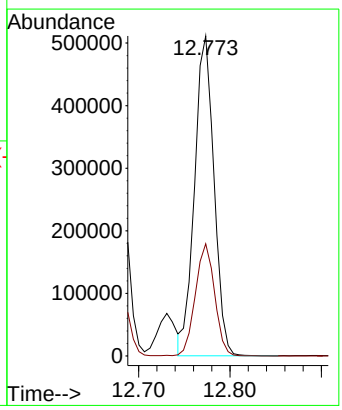


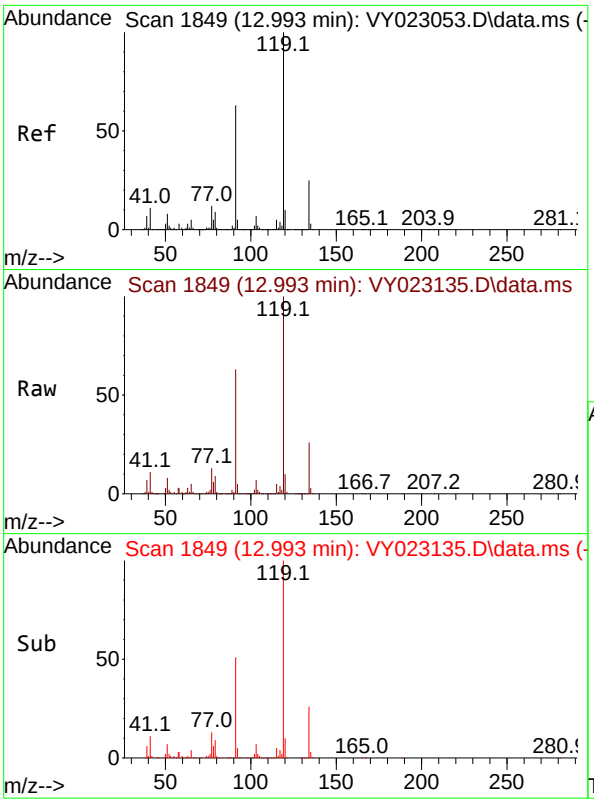


#82
4-Chlorotoluene
Concen: 46.196 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 91 Resp: 754599

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0



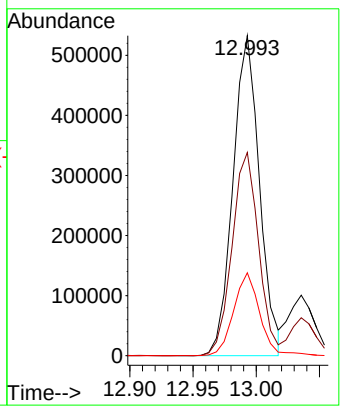


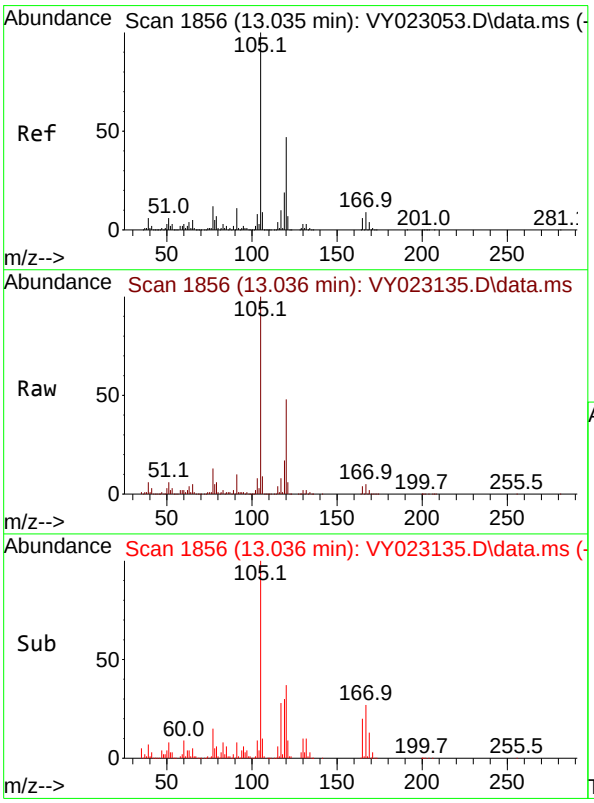
#83
tert-Butylbenzene
Concen: 46.181 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 778117

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.6	94.8
134	25.6	12.9	38.7

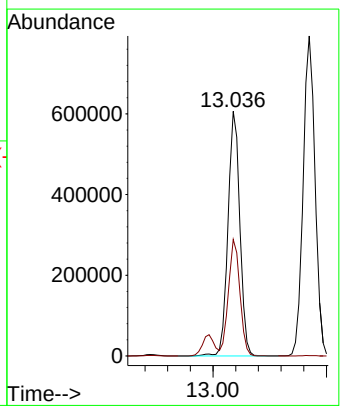


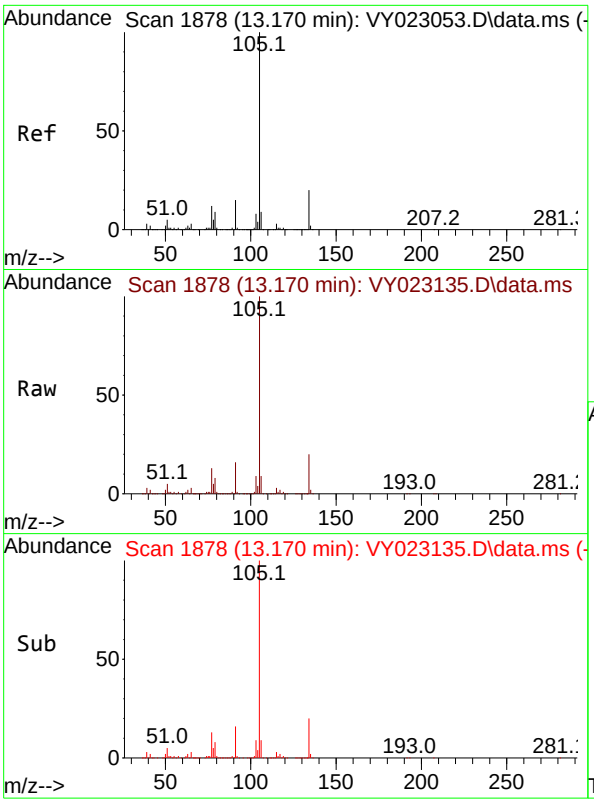


#84
1,2,4-Trimethylbenzene
Concen: 47.349 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:105 Resp: 879311

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



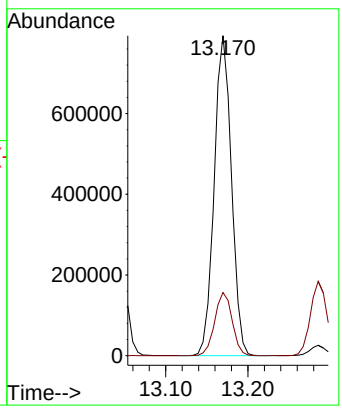


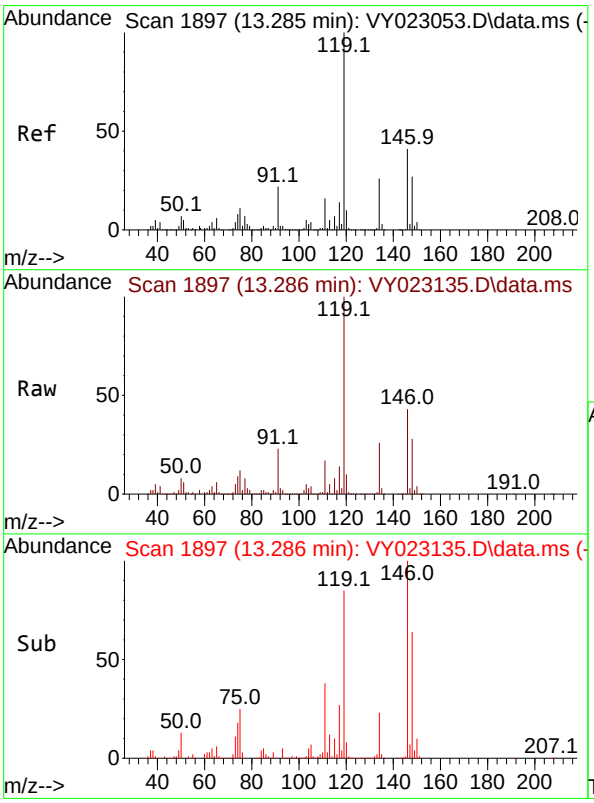
#85
sec-Butylbenzene
Concen: 46.712 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1156161

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.2	30.4

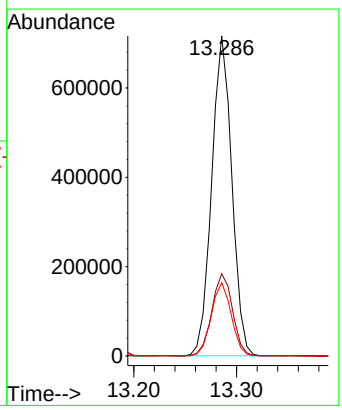


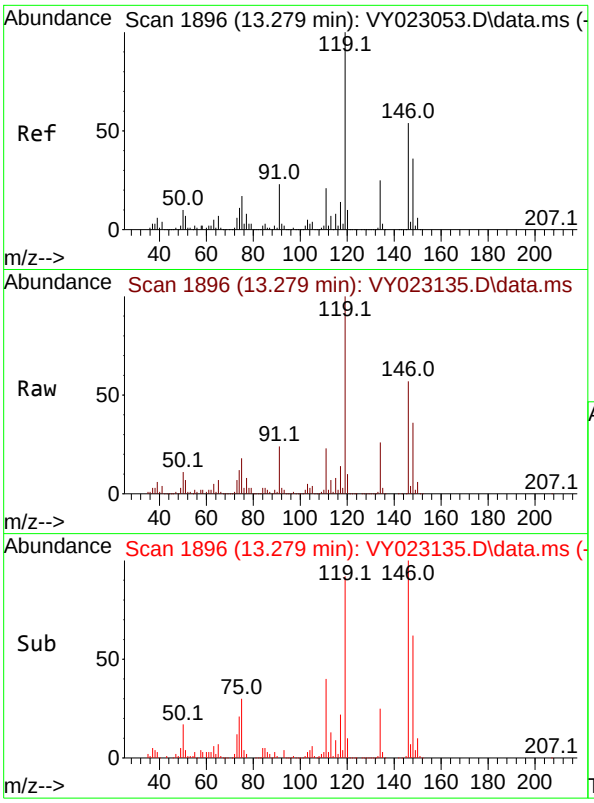


#86
p-Isopropyltoluene
Concen: 47.312 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:119 Resp: 972014

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	22.9	11.3	33.8



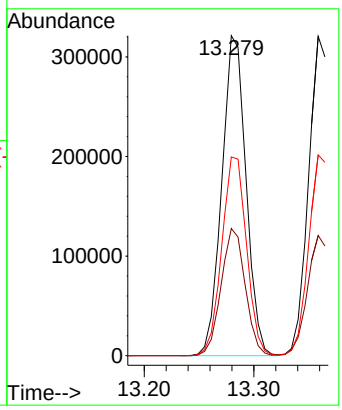


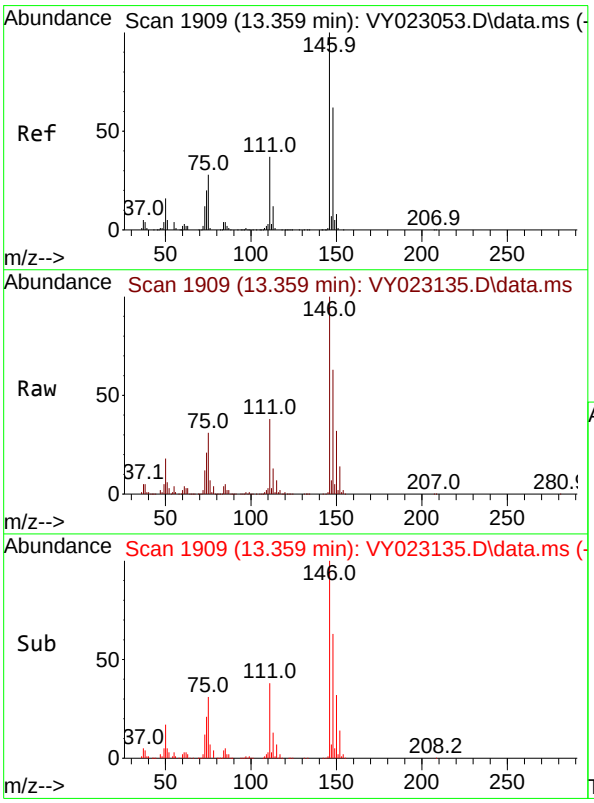
#87
1,3-Dichlorobenzene
Concen: 45.434 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 493403

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.7
148	63.5	32.5	97.5

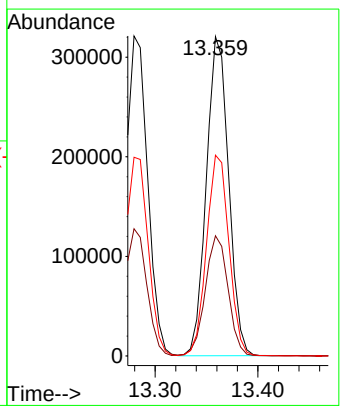


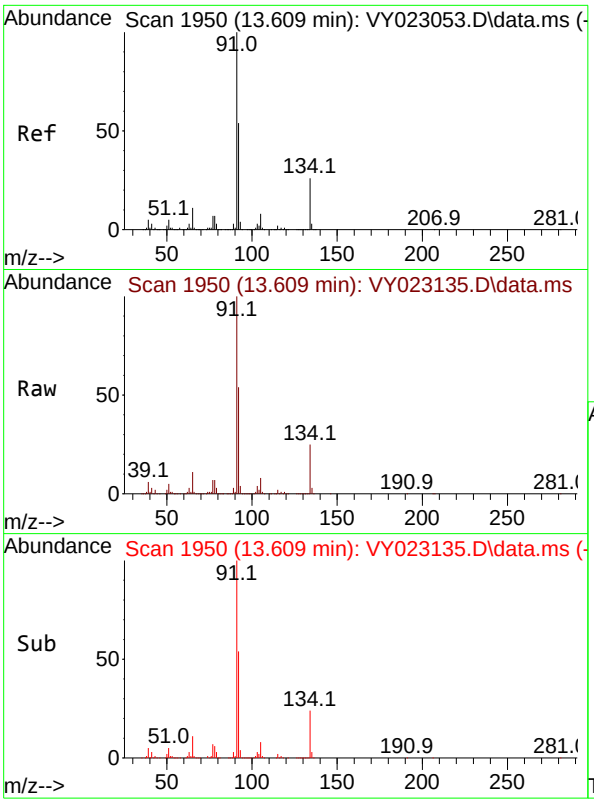


#88
1,4-Dichlorobenzene
Concen: 44.832 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:146 Resp: 482971

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.1
148	63.7	31.6	94.7



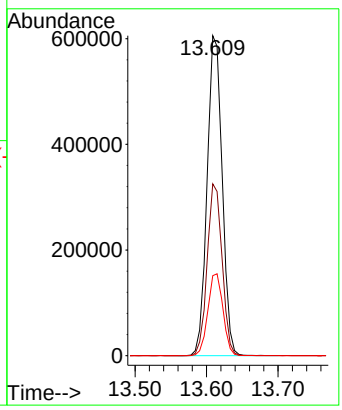


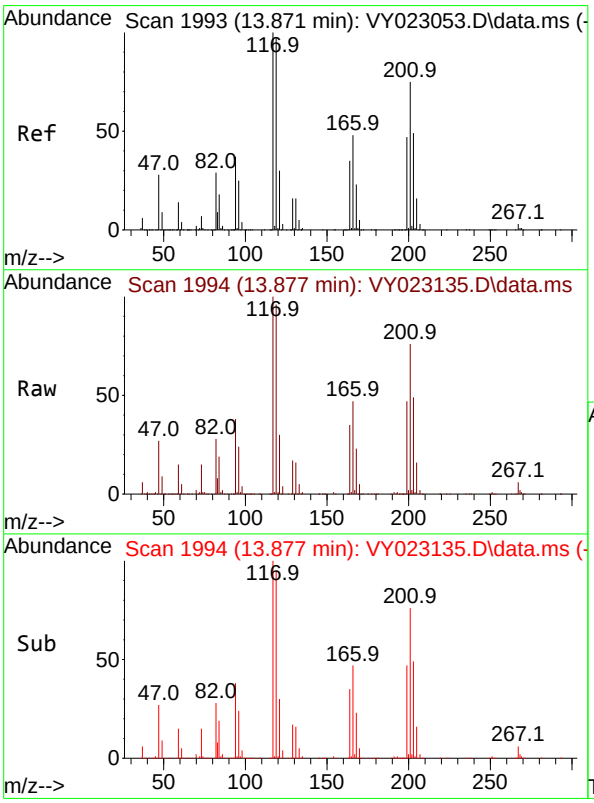
#89
n-Butylbenzene
Concen: 46.994 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 886753

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	25.7	13.2	39.5

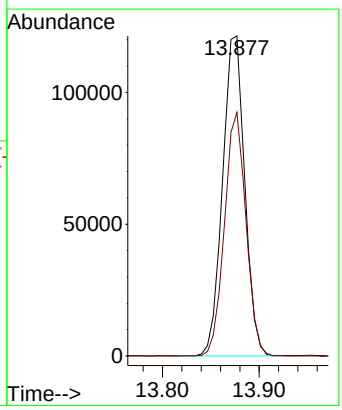


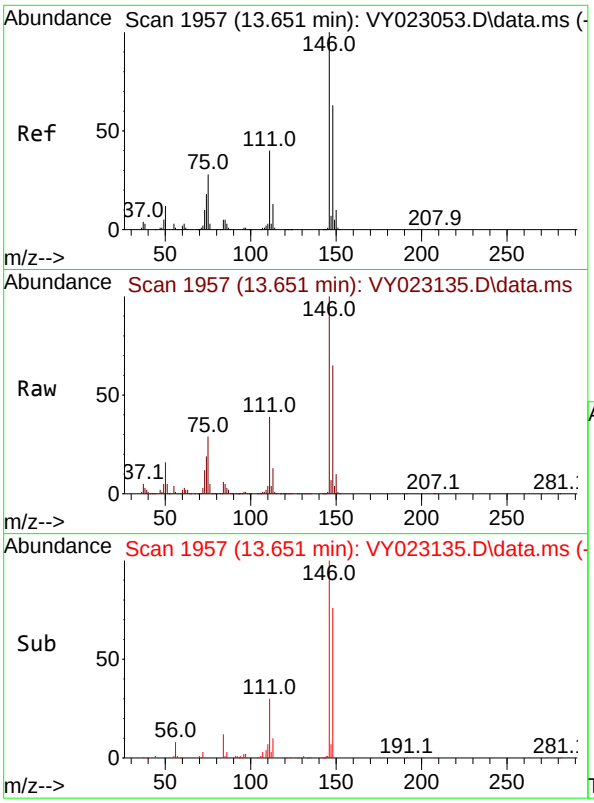


#90
Hexachloroethane
Concen: 45.913 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:117 Resp: 193098

Ion	Ratio	Lower	Upper
117	100		
201	73.9	38.4	115.1



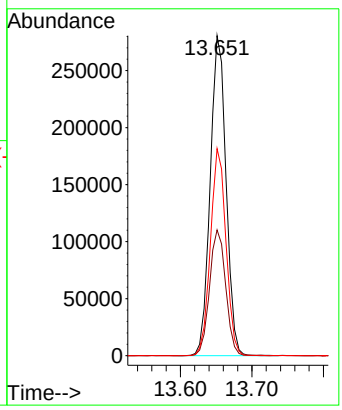


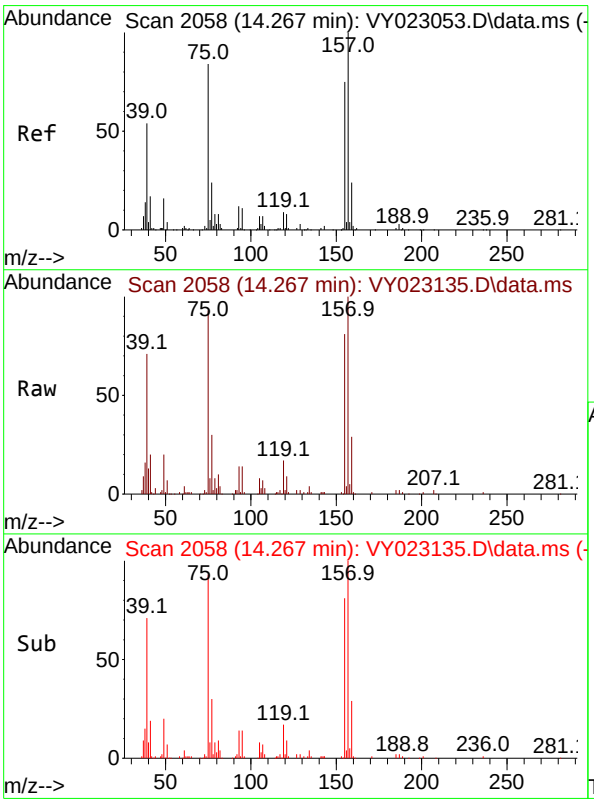
#91
1,2-Dichlorobenzene
Concen: 45.320 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 431633

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.3	60.8
148	63.6	32.2	96.6

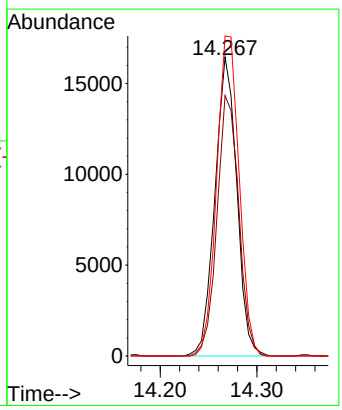


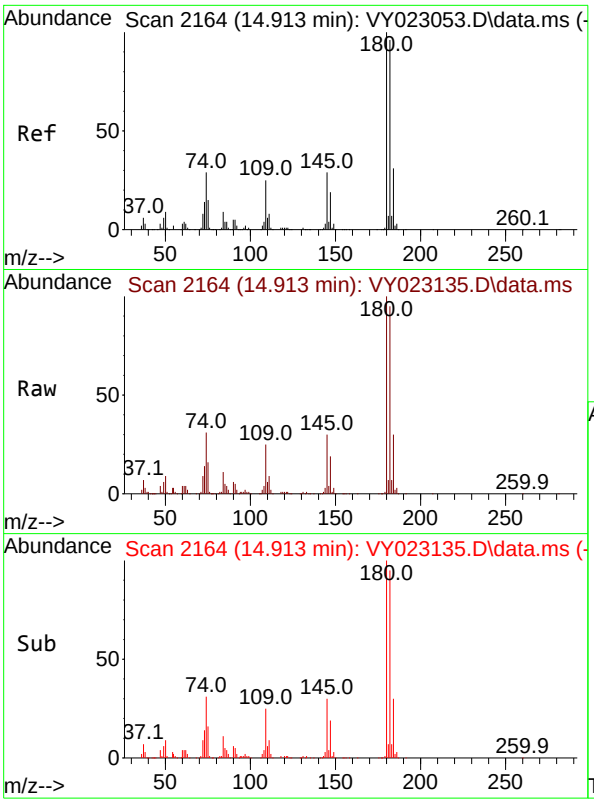


#92
1,2-Dibromo-3-Chloropropane
Concen: 42.044 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion: 75 Resp: 25801

Ion	Ratio	Lower	Upper
75	100		
155	86.8	43.9	131.6
157	110.5	57.2	171.6



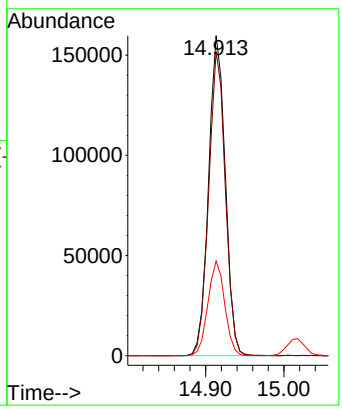


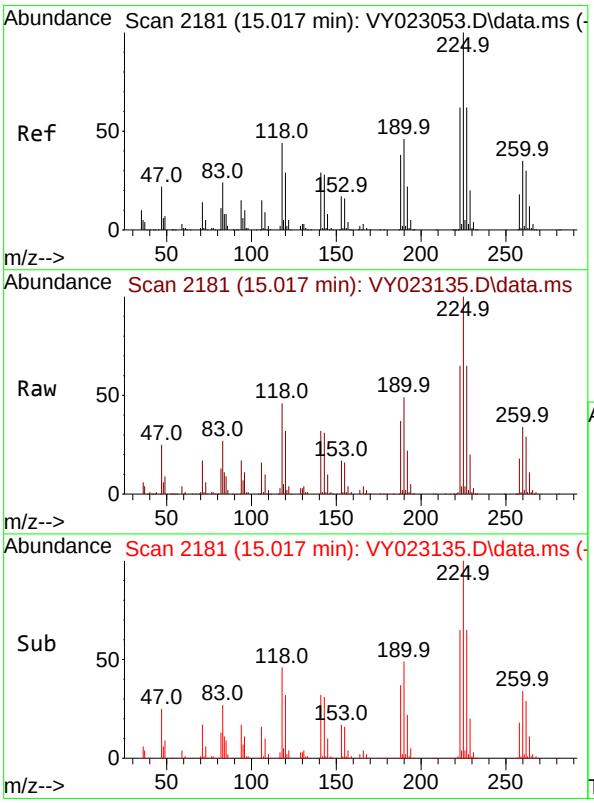
#93
1,2,4-Trichlorobenzene
Concen: 41.942 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 236226

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.8	140.4
145	29.7	14.4	43.4

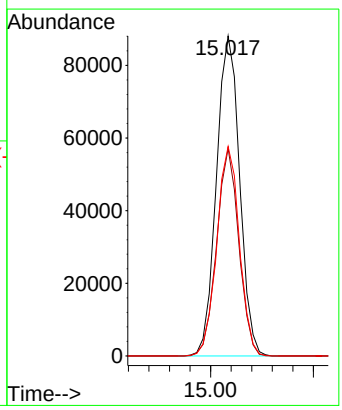


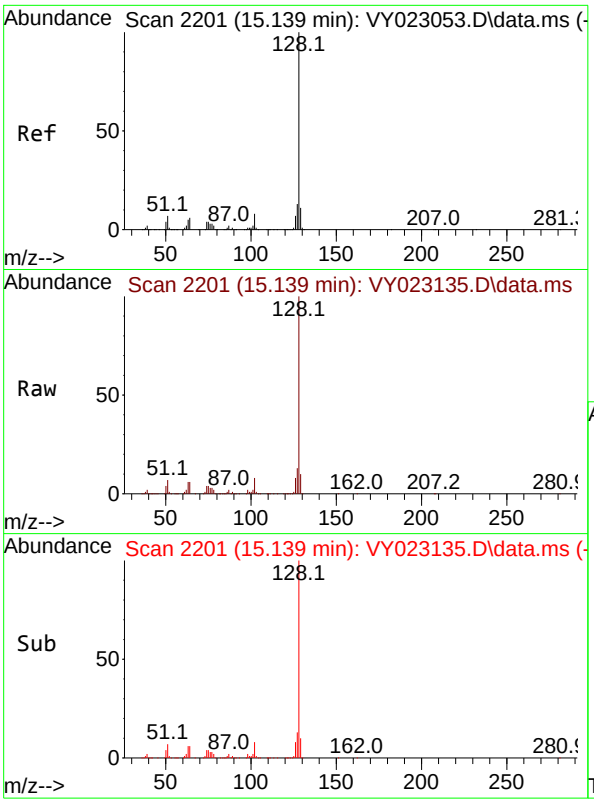


#94
Hexachlorobutadiene
Concen: 41.632 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:225 Resp: 137786

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	63.8	31.5	94.5



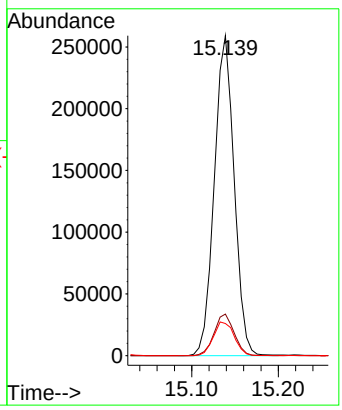


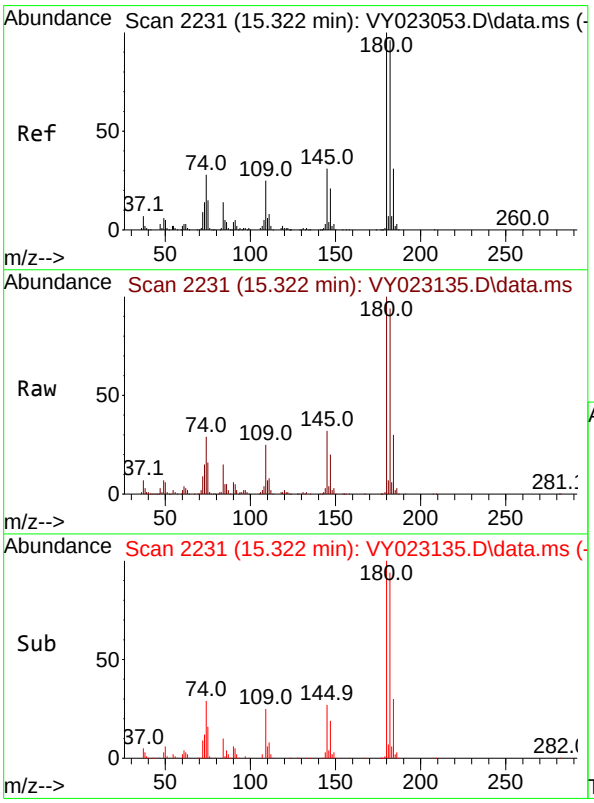
#95
Naphthalene
Concen: 43.007 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 413036

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.2	9.0	13.4

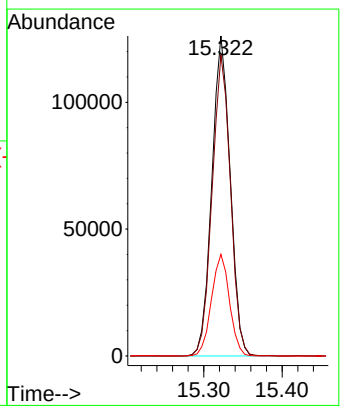




#96
1,2,3-Trichlorobenzene
Concen: 42.272 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023135.D
Acq: 15 Aug 2025 19:06

Tgt Ion:180 Resp: 205156

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.9	143.7
145	31.2	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	560294	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	876189	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	761785	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	392533	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	241668	45.256	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.520%			
35) Dibromofluoromethane	7.634	113	256133	48.854	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.700%			
50) Toluene-d8	10.109	98	1008048	49.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.440%			
62) 4-Bromofluorobenzene	12.401	95	326827	49.618	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	190057	41.557	ug/l	98
3) Chloromethane	2.074	50	316334	42.705	ug/l	99
4) Vinyl Chloride	2.208	62	416548	45.491	ug/l	100
5) Bromomethane	2.598	94	324698	47.481	ug/l	99
6) Chloroethane	2.739	64	284191	46.683	ug/l	100
7) Trichlorofluoromethane	3.056	101	508922	45.708	ug/l	100
8) Diethyl Ether	3.458	74	135802	46.102	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	266790	48.569	ug/l	99
10) Methyl Iodide	4.007	142	325506	54.916	ug/l	98
11) Tert butyl alcohol	4.866	59	79834	218.191	ug/l	99
12) 1,1-Dichloroethene	3.793	96	267212	49.491	ug/l	90
13) Acrolein	3.653	56	60662	113.207	ug/l	93
14) Allyl chloride	4.385	41	361978	45.563	ug/l	96
15) Acrylonitrile	5.061	53	279904	233.725	ug/l	99
16) Acetone	3.866	43	316768	273.812	ug/l	99
17) Carbon Disulfide	4.110	76	811887	46.117	ug/l	100
18) Methyl Acetate	4.385	43	147420	42.821	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	679197	48.545	ug/l	99
20) Methylene Chloride	4.616	84	287656	47.727	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	299764	49.404	ug/l	96
22) Diisopropyl ether	6.025	45	825090	47.793	ug/l	99
23) Vinyl Acetate	5.964	43	2298296	240.761	ug/l	100
24) 1,1-Dichloroethane	5.921	63	508733	48.199	ug/l	99
25) 2-Butanone	6.896	43	384462	244.351	ug/l	97
26) 2,2-Dichloropropane	6.890	77	468257	51.414	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	351019	50.042	ug/l	98
28) Bromochloromethane	7.244	49	186381	44.509	ug/l	95
29) Tetrahydrofuran	7.262	42	221133	226.737	ug/l	96
30) Chloroform	7.421	83	536519	49.287	ug/l	95
31) Cyclohexane	7.701	56	460210	46.269	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	483961	50.106	ug/l	100
36) 1,1-Dichloropropene	7.835	75	395952	50.818	ug/l	99
37) Ethyl Acetate	6.988	43	157126	48.006	ug/l	99
38) Carbon Tetrachloride	7.817	117	436510	51.581	ug/l	99
39) Methylcyclohexane	9.109	83	531826	51.832	ug/l	97
40) Benzene	8.079	78	1210380	50.401	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	75919	40.191	ug/l	#	84
42) 1,2-Dichloroethane	8.158	62	300070	48.044	ug/l		100
43) Isopropyl Acetate	8.201	43	308955	46.703	ug/l	#	84
44) Trichloroethene	8.866	130	319381	51.463	ug/l		100
45) 1,2-Dichloropropane	9.146	63	276520	50.044	ug/l		97
46) Dibromomethane	9.231	93	157422	49.637	ug/l		99
47) Bromodichloromethane	9.426	83	406246	49.781	ug/l		97
48) Methyl methacrylate	9.219	41	152020	48.023	ug/l		97
49) 1,4-Dioxane	9.231	88	34759	934.713	ug/l		97
51) 4-Methyl-2-Pentanone	9.999	43	822061	240.906	ug/l		98
52) Toluene	10.170	92	788070	51.669	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	377708	51.112	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	441435	50.516	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	213063	50.206	ug/l		97
56) Ethyl methacrylate	10.438	69	276182	50.859	ug/l		99
57) 1,3-Dichloropropane	10.719	76	354628	49.273	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	622022	242.835	ug/l		97
59) 2-Hexanone	10.762	43	592202	254.865	ug/l		98
60) Dibromochloromethane	10.914	129	285374	50.963	ug/l		99
61) 1,2-Dibromoethane	11.018	107	201073	50.411	ug/l		100
64) Tetrachloroethene	10.646	164	342427	50.340	ug/l		98
65) Chlorobenzene	11.444	112	858367	52.238	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	295011	52.900	ug/l		99
67) Ethyl Benzene	11.517	91	1494465	52.850	ug/l		99
68) m/p-Xylenes	11.627	106	1186104	107.397	ug/l		98
69) o-Xylene	11.956	106	557951	53.940	ug/l		100
70) Styrene	11.969	104	930498	55.007	ug/l		98
71) Bromoform	12.133	173	166298	51.022	ug/l		99
73) Isopropylbenzene	12.255	105	1455261	52.528	ug/l		99
74) N-amyl acetate	12.072	43	285441	48.584	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	230085	48.639	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	307699	81.222	ug/l	#	100
77) Bromobenzene	12.529	156	336874	50.968	ug/l		97
78) n-propylbenzene	12.597	91	1741756	52.806	ug/l		99
79) 2-Chlorotoluene	12.676	91	975057	51.594	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1191826	53.229	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	77577	49.570	ug/l		98
82) 4-Chlorotoluene	12.773	91	1000547	51.036	ug/l		99
83) tert-Butylbenzene	12.993	119	1091125	53.956	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	1191535	53.459	ug/l		100
85) sec-Butylbenzene	13.176	105	1594423	53.673	ug/l		100
86) p-Isopropyltoluene	13.292	119	1357746	55.063	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	680781	52.231	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	663039	51.281	ug/l		99
89) n-Butylbenzene	13.615	91	1231645	54.384	ug/l		99
90) Hexachloroethane	13.877	117	264268	52.354	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	588570	51.489	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	34676	47.081	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	345818	51.158	ug/l		99
94) Hexachlorobutadiene	15.023	225	202124	50.885	ug/l		99
95) Naphthalene	15.145	128	590257	51.208	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	288433	49.517	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

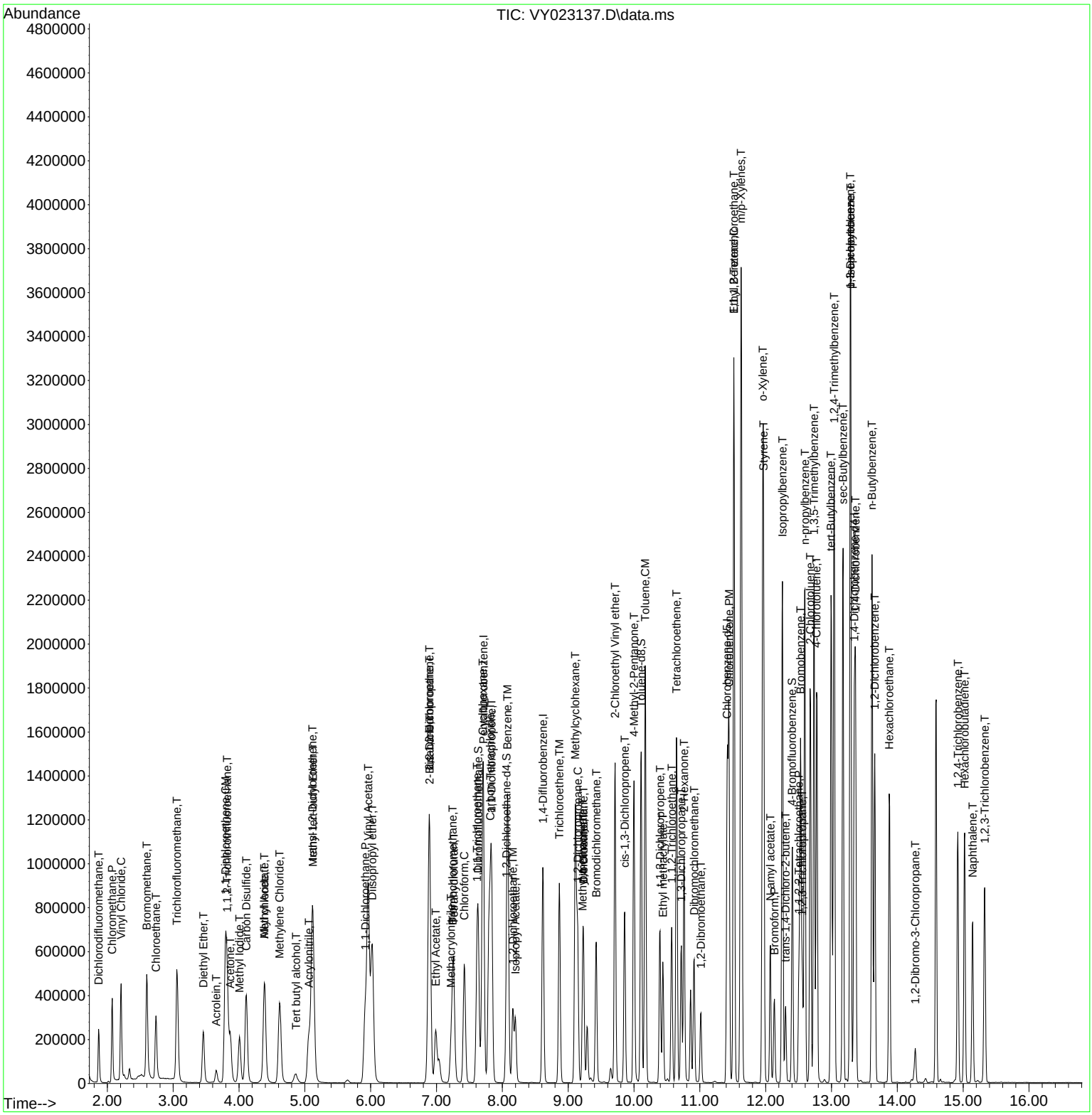
(#) = qualifier out of range (m) = manual integration (+) = signals summed

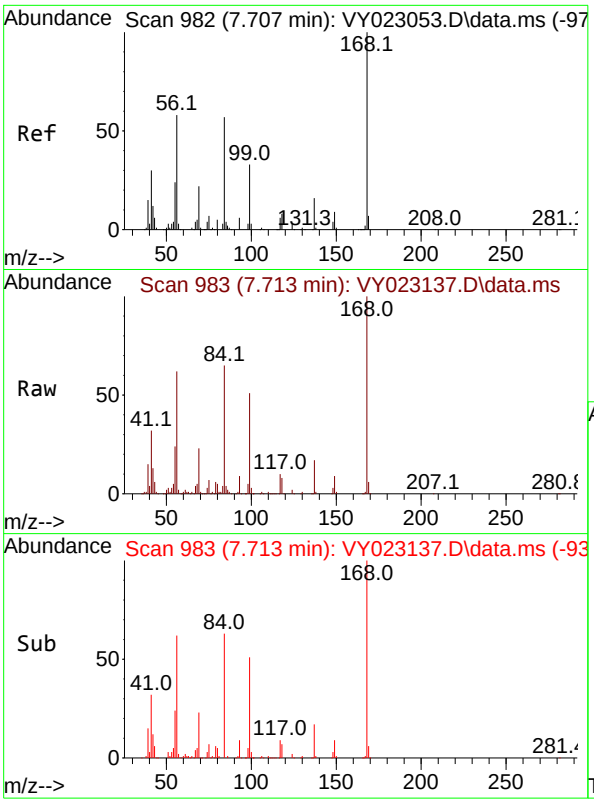
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



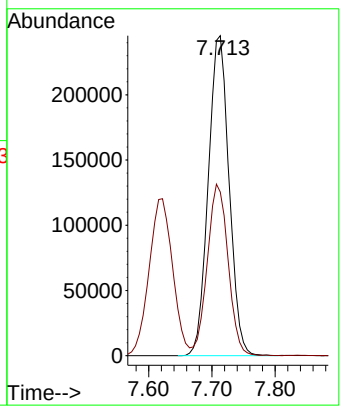


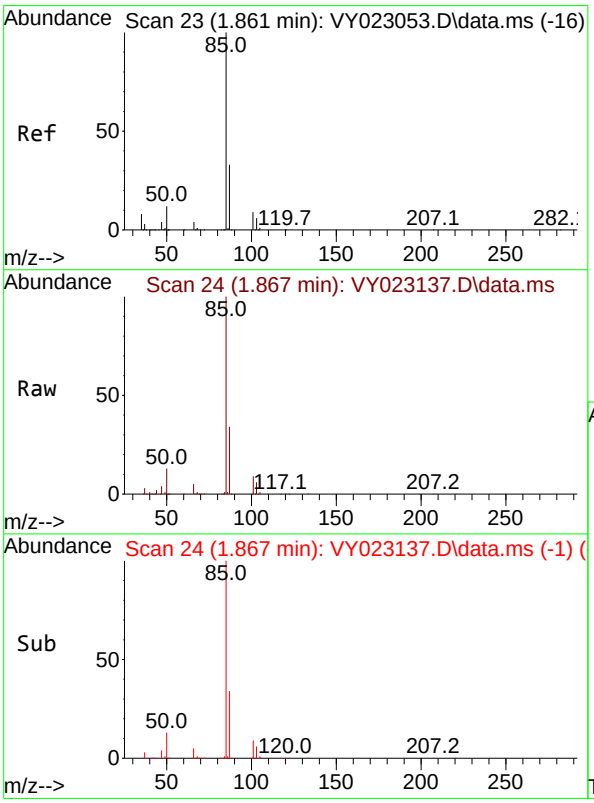
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 560294

Ion	Ratio	Lower	Upper
168	100		
99	51.1	42.8	64.2

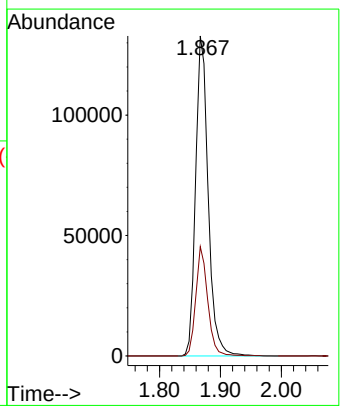


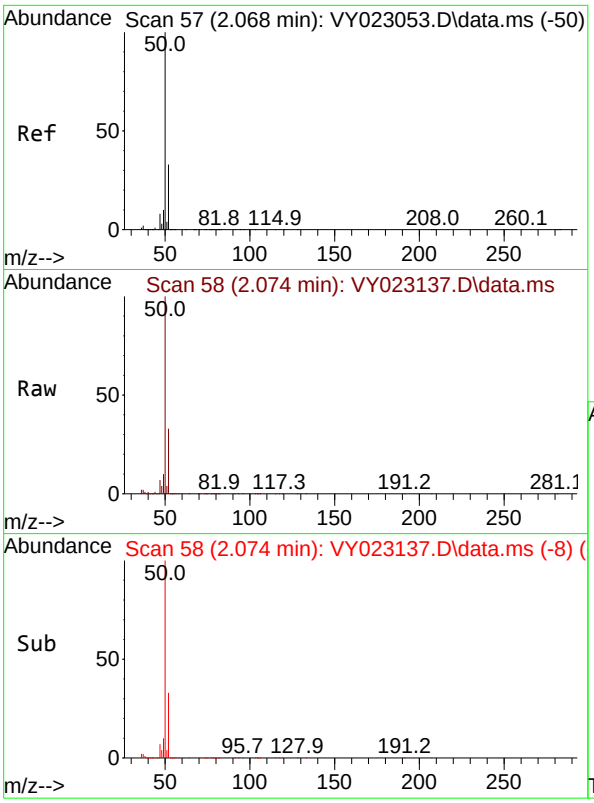


#2
Dichlorodifluoromethane
Concen: 41.557 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 85 Resp: 190057

Ion	Ratio	Lower	Upper
85	100		
87	34.2	16.6	49.8



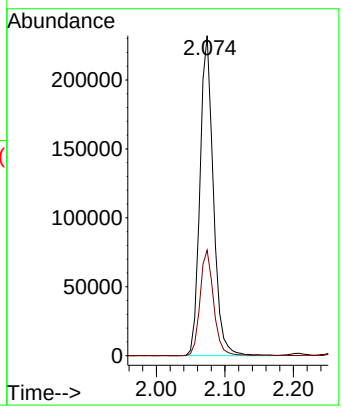


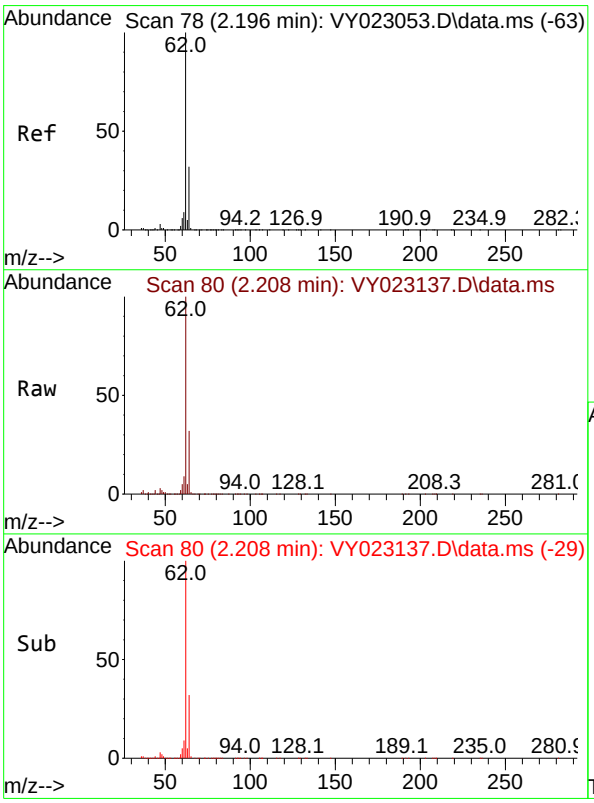
#3
Chloromethane
Concen: 42.705 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 316334

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1

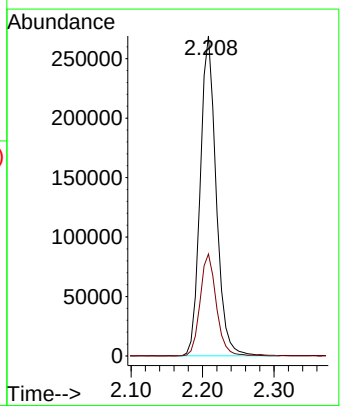


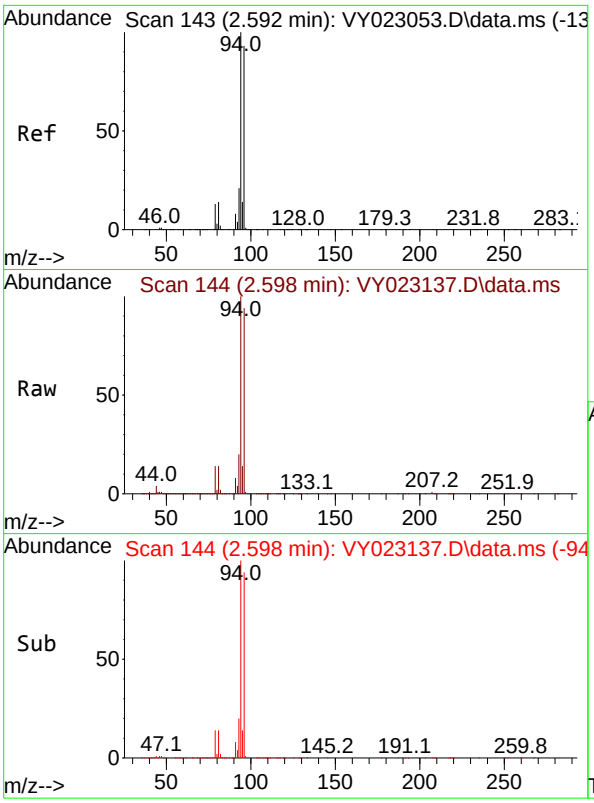


#4
Vinyl Chloride
Concen: 45.491 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 416548

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0



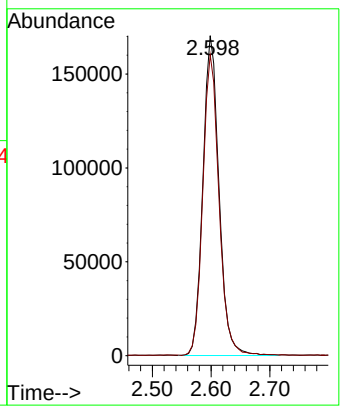


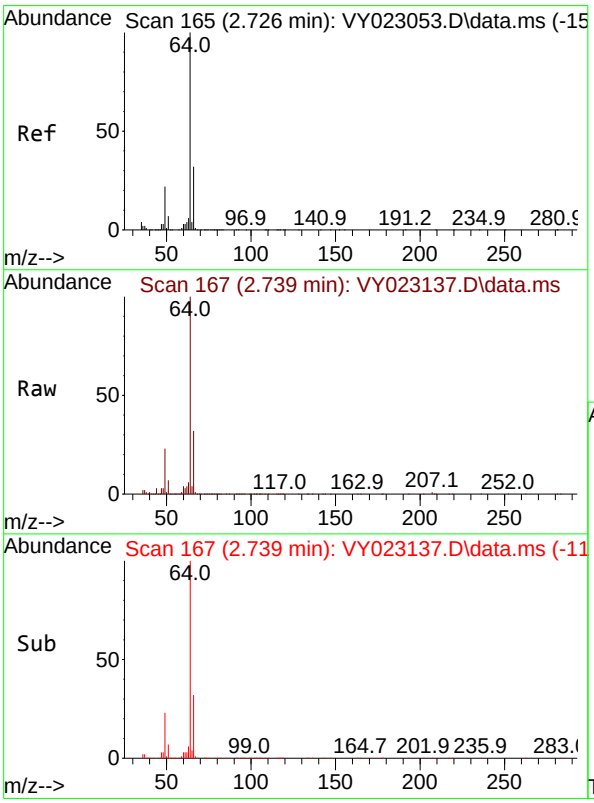
#5
Bromomethane
Concen: 47.481 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 324698

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0

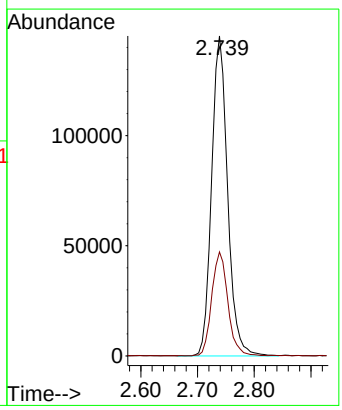


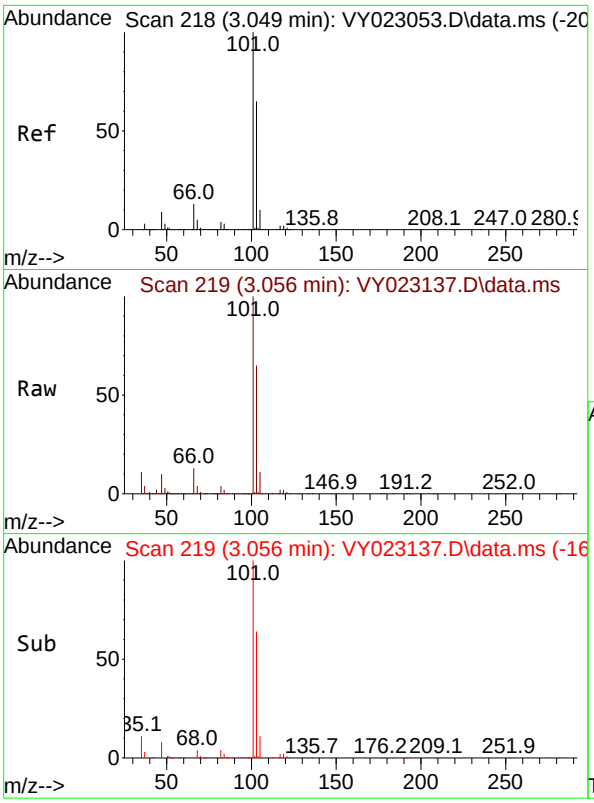


#6
Chloroethane
Concen: 46.683 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 64 Resp: 284191

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.6



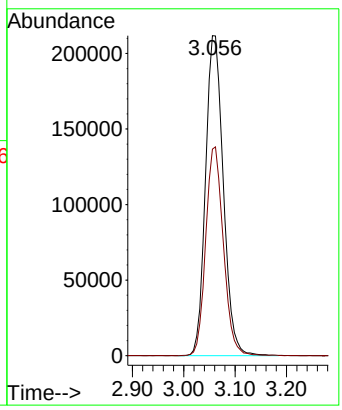


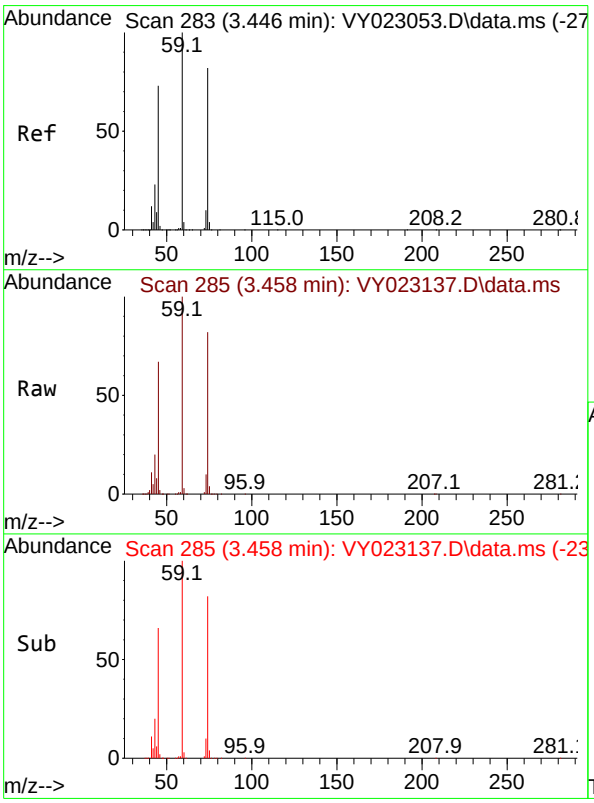
#7
Trichlorofluoromethane
Concen: 45.708 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 508922

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.9	77.9

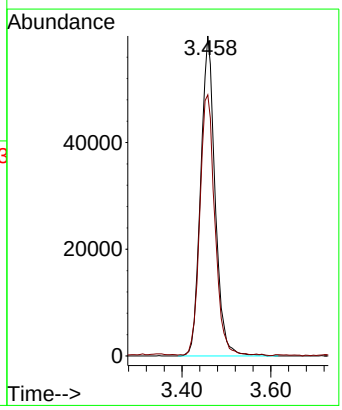


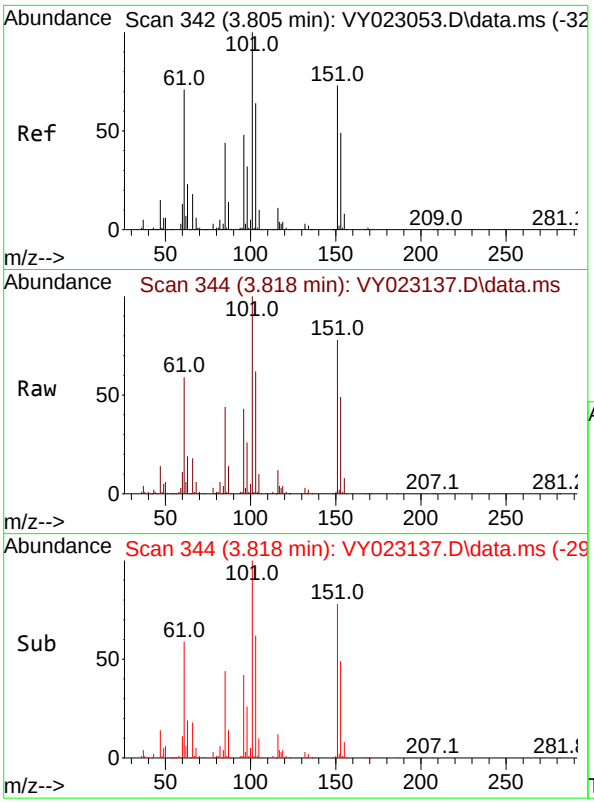


#8
Diethyl Ether
Concen: 46.102 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 74 Resp: 135802

Ion	Ratio	Lower	Upper
74	100		
45	84.4	44.4	133.2



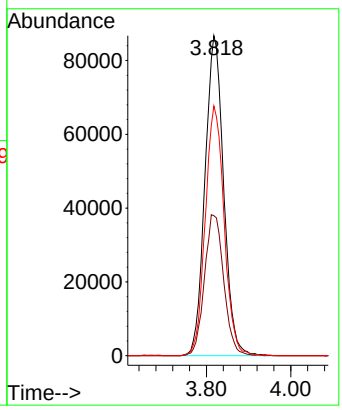


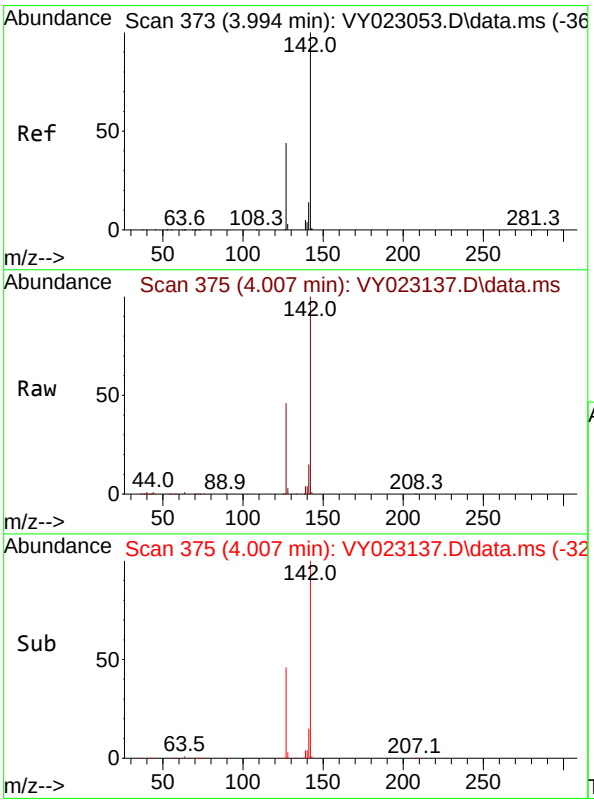
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.569 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 266790

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.3	54.5
151	78.8	61.5	92.3

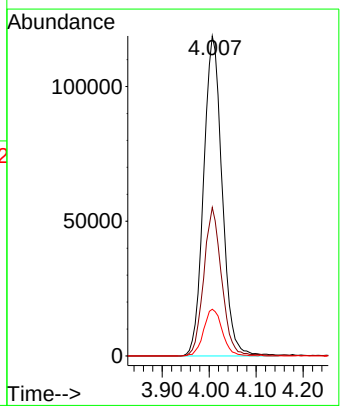


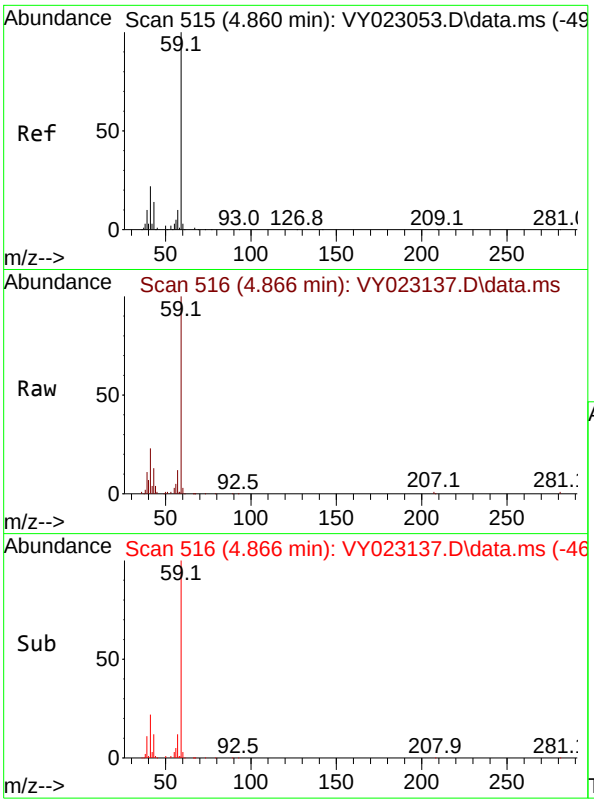


#10
Methyl Iodide
Concen: 54.916 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:142 Resp: 325506

Ion	Ratio	Lower	Upper
142	100		
127	44.6	34.9	52.3
141	14.7	11.3	16.9



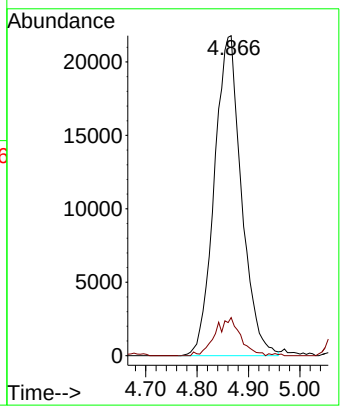


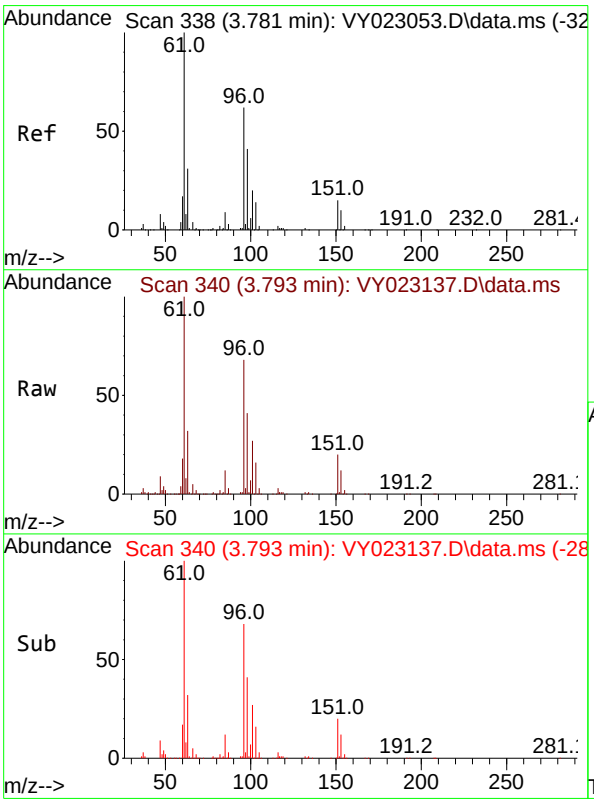
#11
Tert butyl alcohol
Concen: 218.191 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 79834

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0

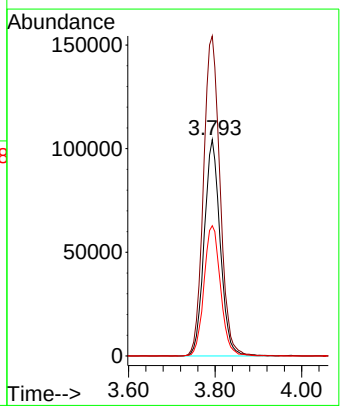


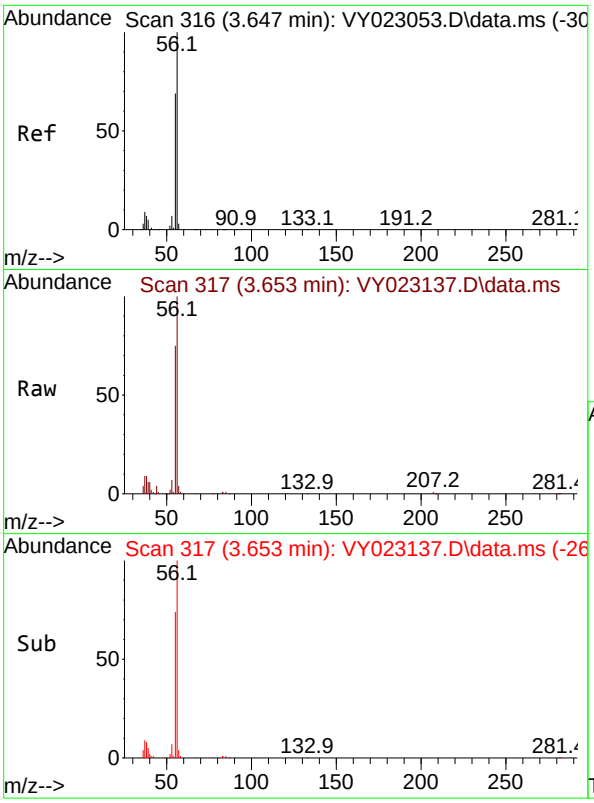


#12
1,1-Dichloroethene
Concen: 49.491 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 267212

Ion	Ratio	Lower	Upper
96	100		
61	148.0	129.4	194.2
98	60.2	52.8	79.2



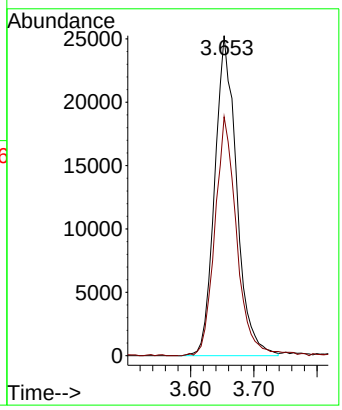


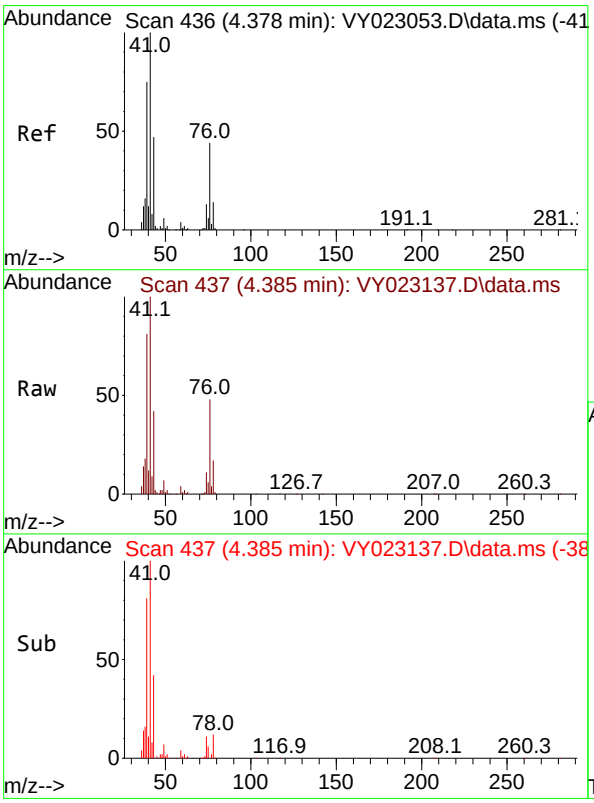
#13
Acrolein
Concen: 113.207 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 60662

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.2	82.8

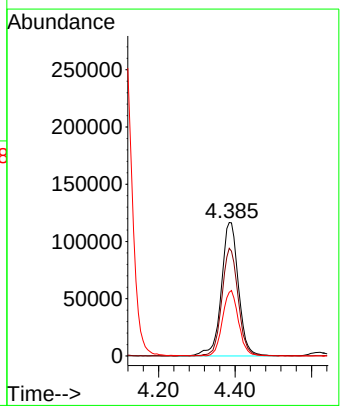


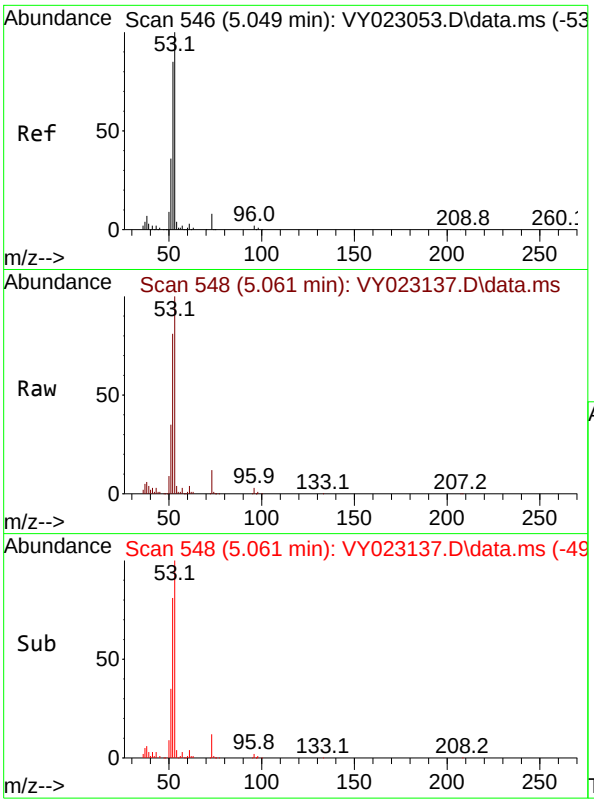


#14
Allyl chloride
Concen: 45.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 361978

Ion	Ratio	Lower	Upper
41	100		
39	76.6	59.8	89.6
76	46.0	33.7	50.5



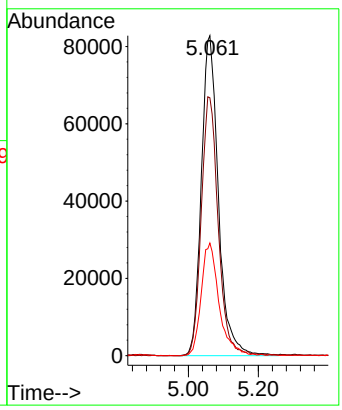


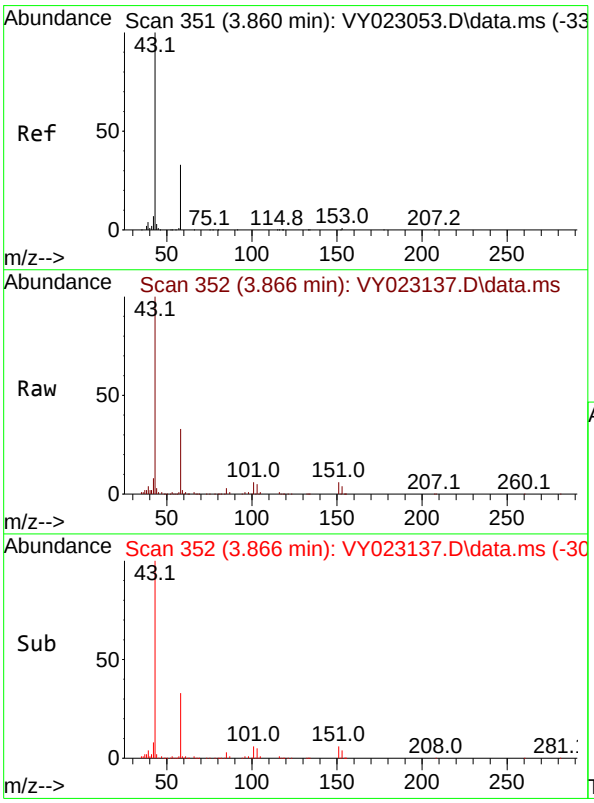
#15
Acrylonitrile
Concen: 233.725 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 279904

Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.3	97.9
51	36.9	29.5	44.3

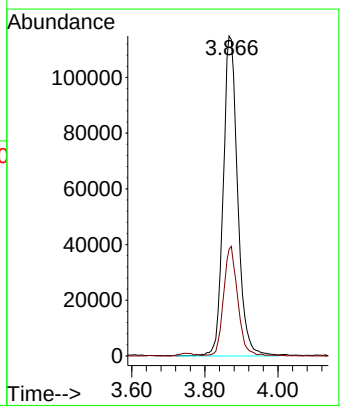


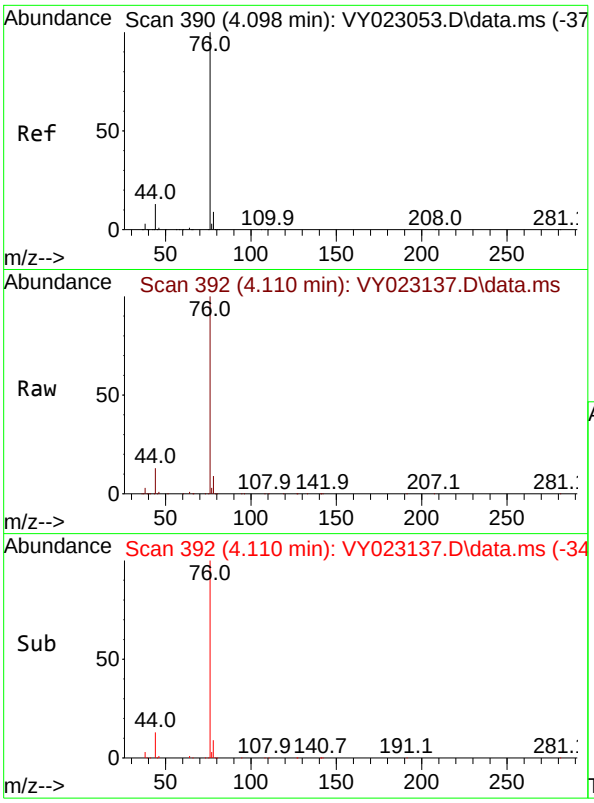


#16
Acetone
Concen: 273.812 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 316768

Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.1	40.7



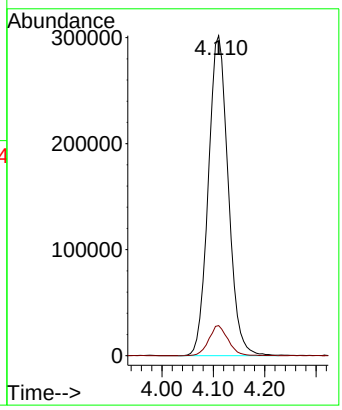


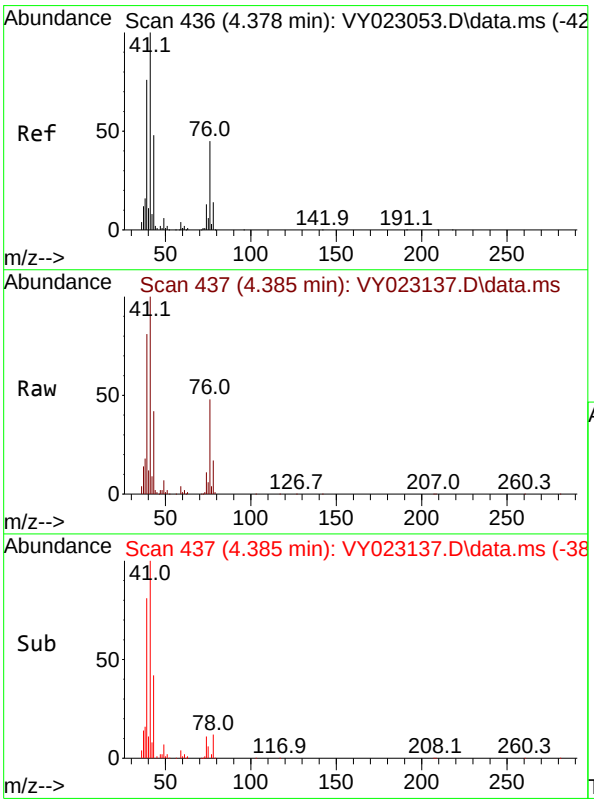
#17
Carbon Disulfide
Concen: 46.117 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 811887

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2

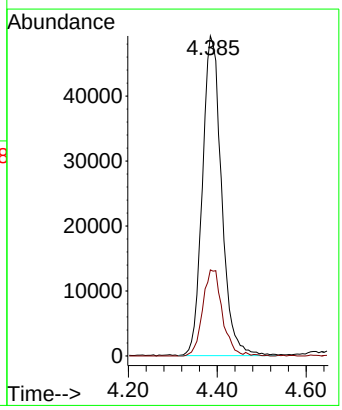


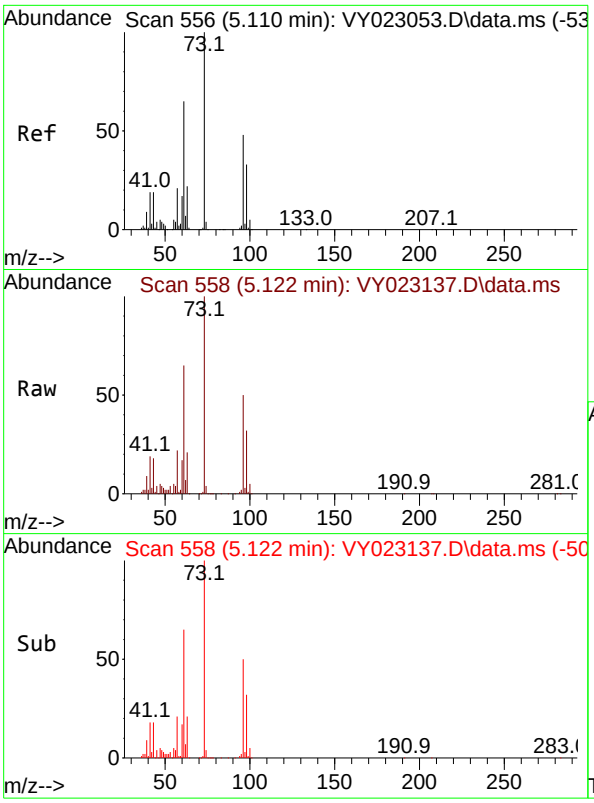


#18
Methyl Acetate
Concen: 42.821 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 147420

Ion	Ratio	Lower	Upper
43	100		
74	27.3	21.2	31.8



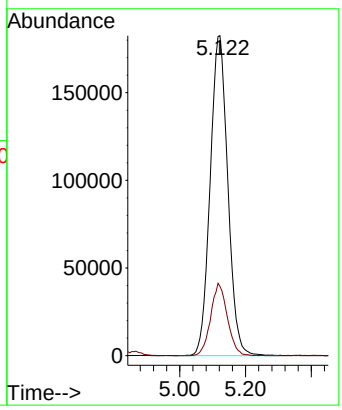


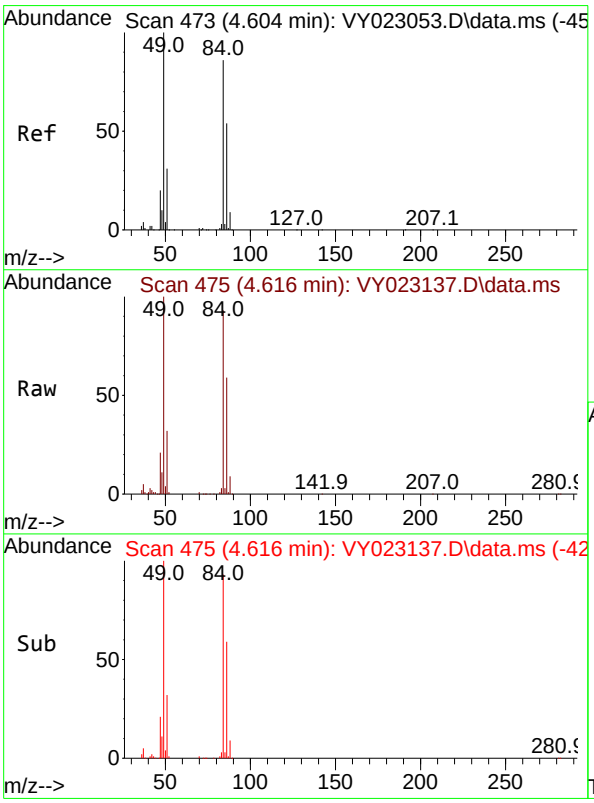
#19
Methyl tert-butyl Ether
Concen: 48.545 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 679197

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7

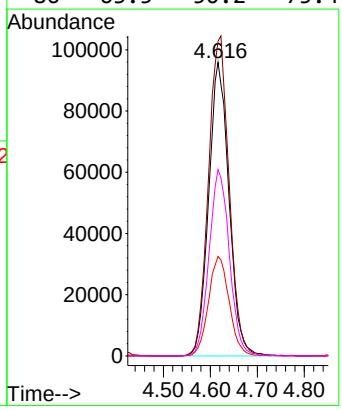


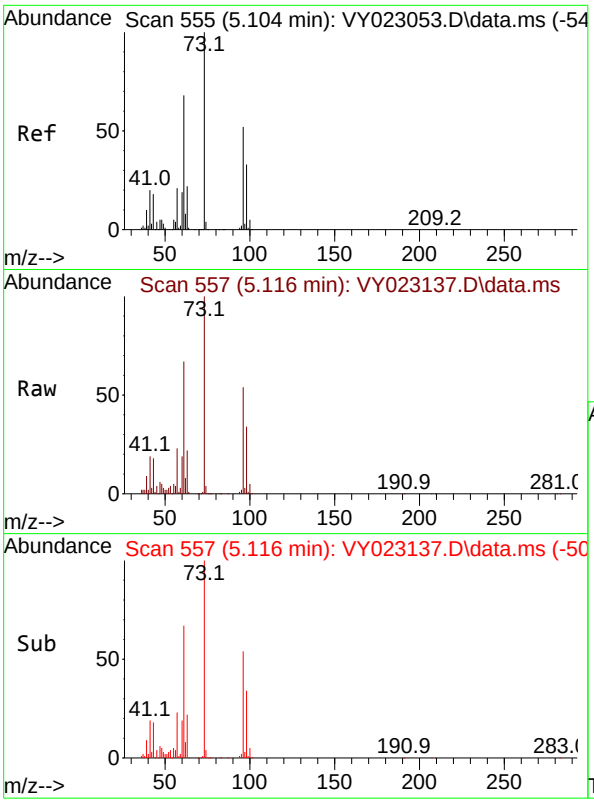


#20
Methylene Chloride
Concen: 47.727 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 84 Resp: 287656

Ion	Ratio	Lower	Upper
84	100		
49	107.3	93.0	139.6
51	33.9	29.0	43.4
86	63.5	50.2	75.4



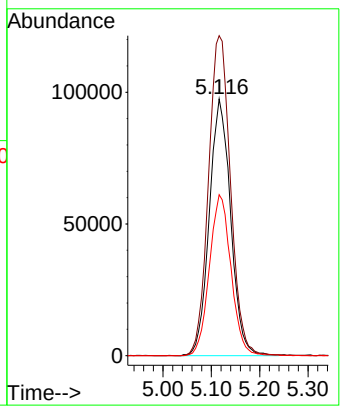


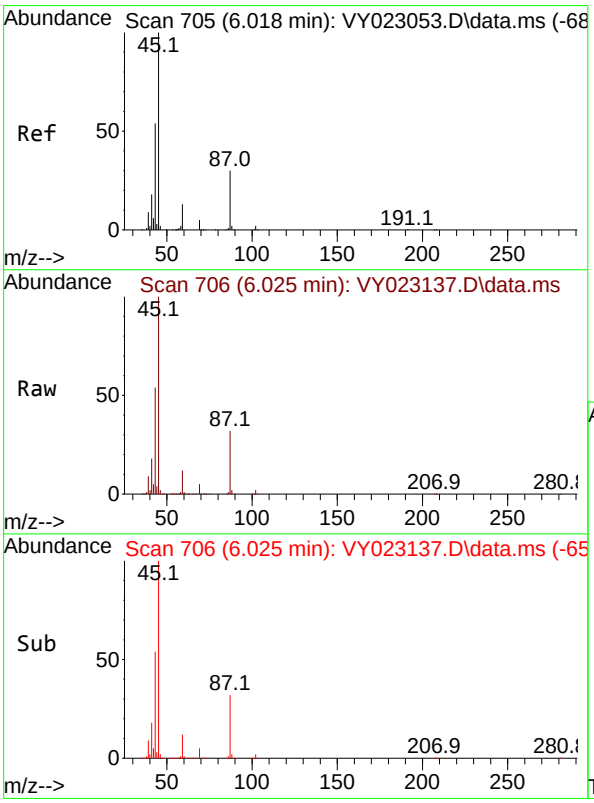
#21
trans-1,2-Dichloroethene
Concen: 49.404 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 299764

Ion	Ratio	Lower	Upper
96	100		
61	124.6	104.8	157.2
98	62.6	50.1	75.1

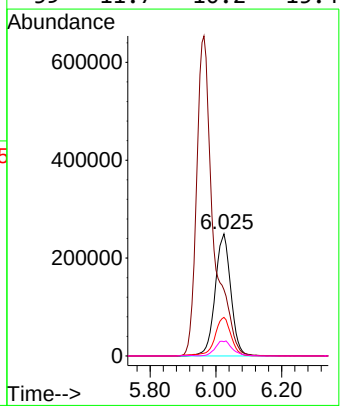


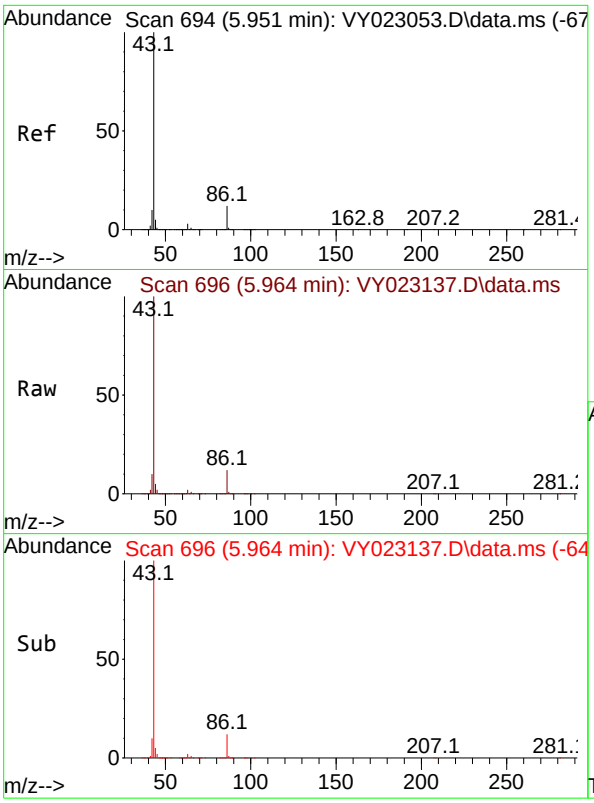


#22
Diisopropyl ether
Concen: 47.793 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 45 Resp: 825090

Ion	Ratio	Lower	Upper
45	100		
43	54.3	43.4	65.0
87	31.6	24.4	36.6
59	11.7	10.2	15.4



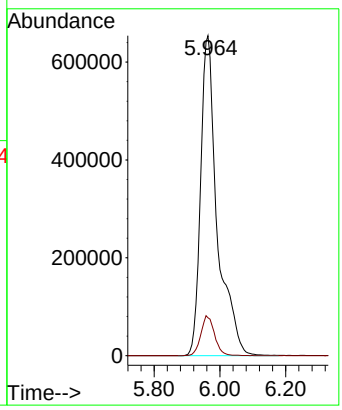


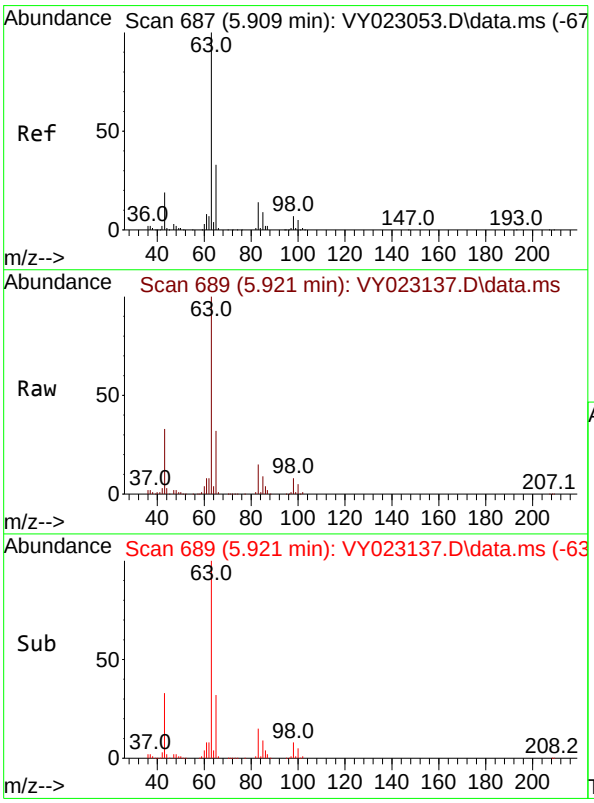
#23
Vinyl Acetate
Concen: 240.761 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2298296

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

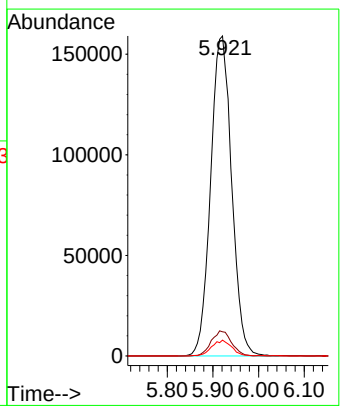


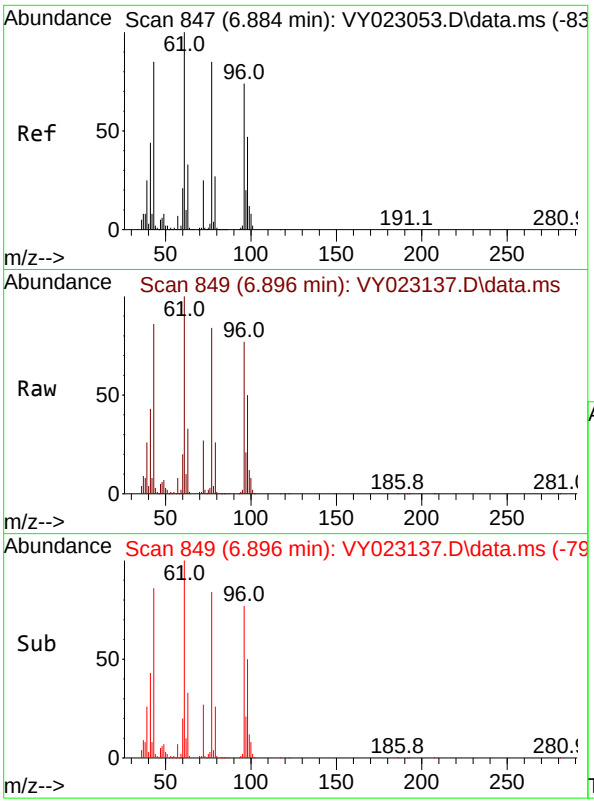


#24
1,1-Dichloroethane
Concen: 48.199 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 508733

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.6
100	5.0	2.4	7.1



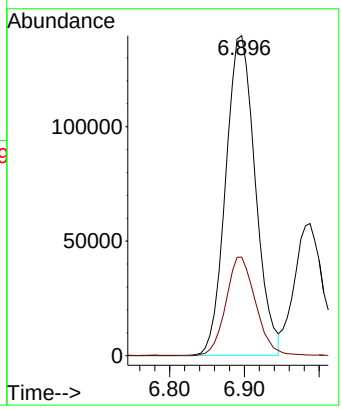


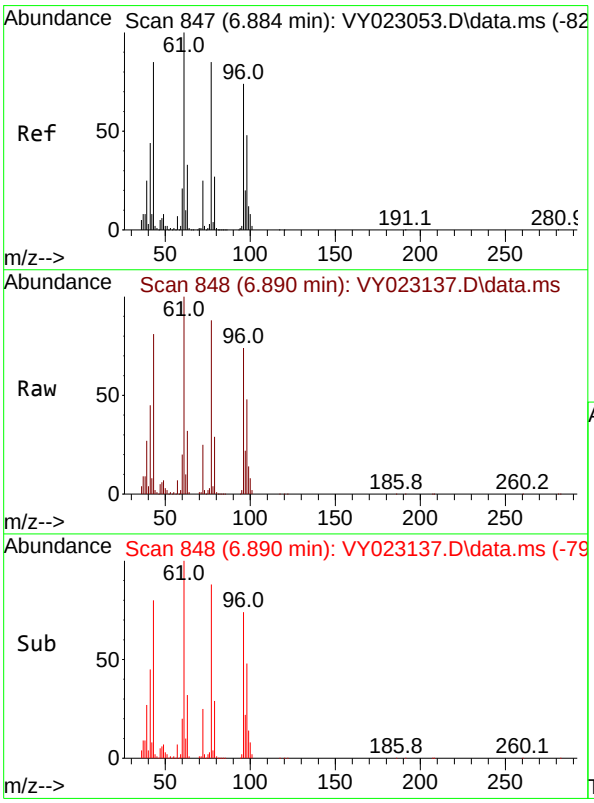
#25
2-Butanone
Concen: 244.351 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 384462

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.5	35.3

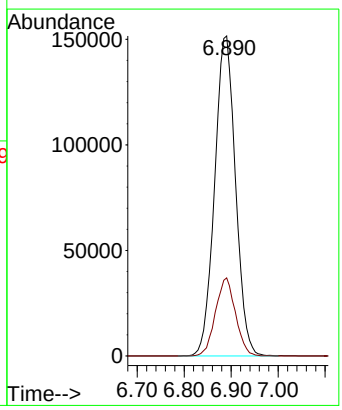


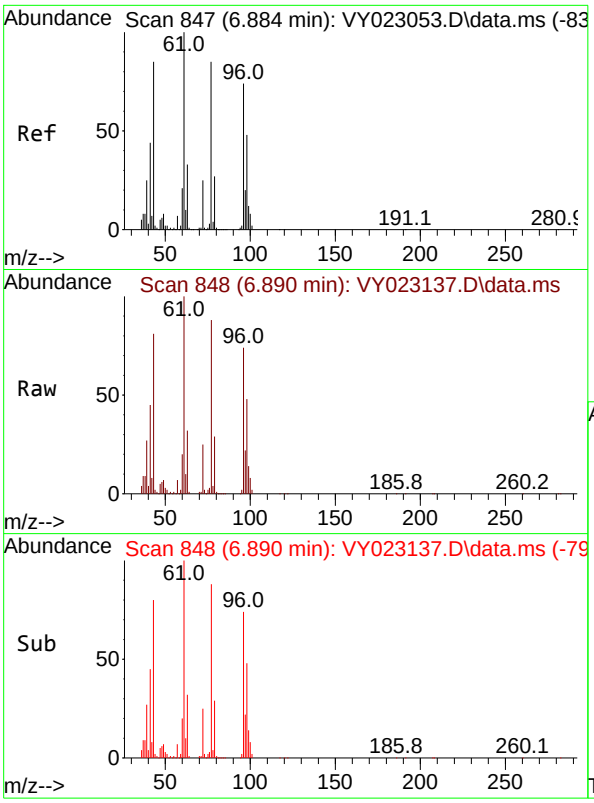


#26
2,2-Dichloropropane
Concen: 51.414 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 77 Resp: 468257

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8



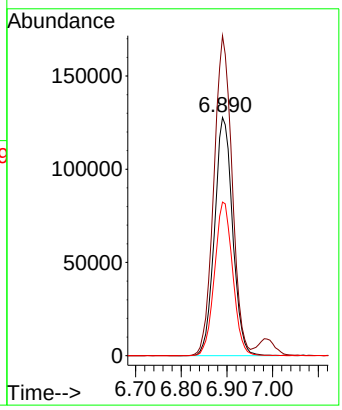


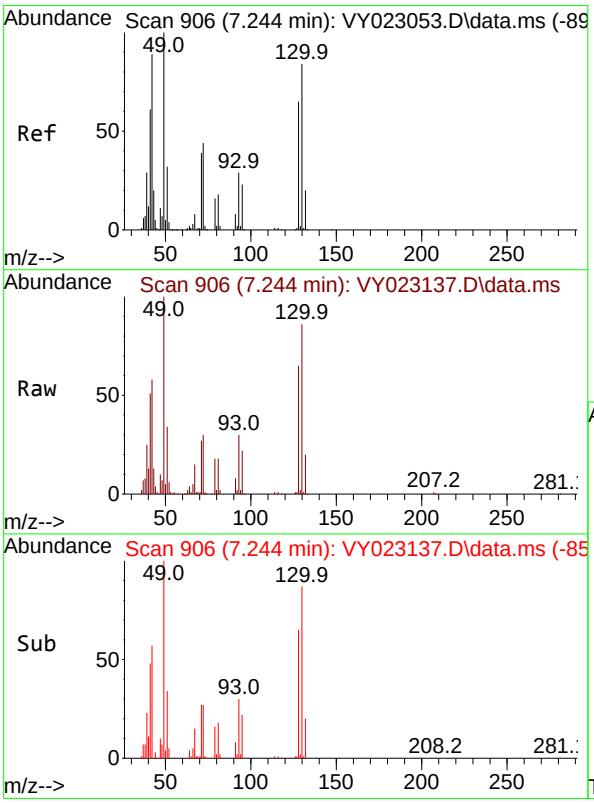
#27
cis-1,2-Dichloroethene
Concen: 50.042 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 351019

Ion	Ratio	Lower	Upper
96	100		
61	135.5	0.0	278.6
98	64.8	0.0	130.4

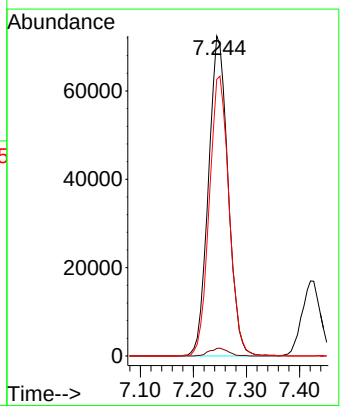


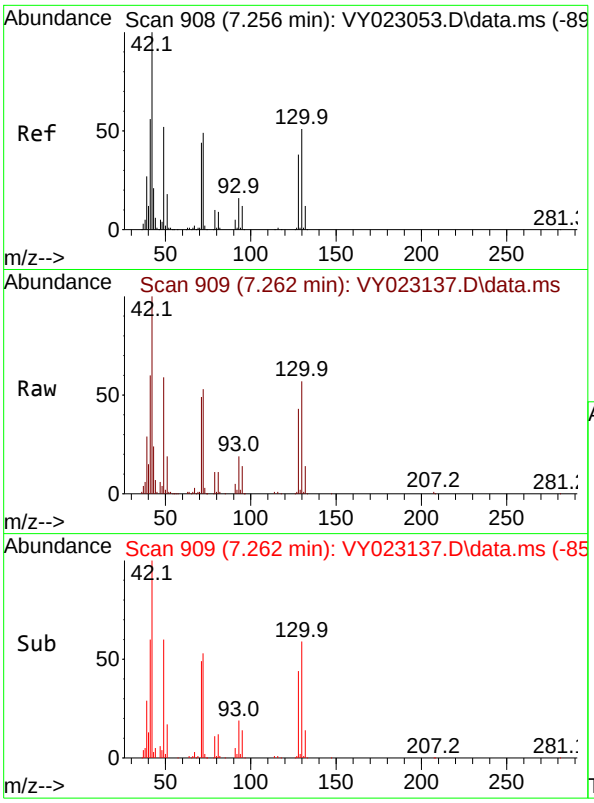


#28
Bromochloromethane
Concen: 44.509 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 49 Resp: 186381

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	87.8	66.4	99.6



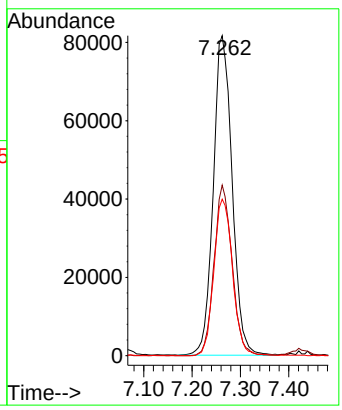


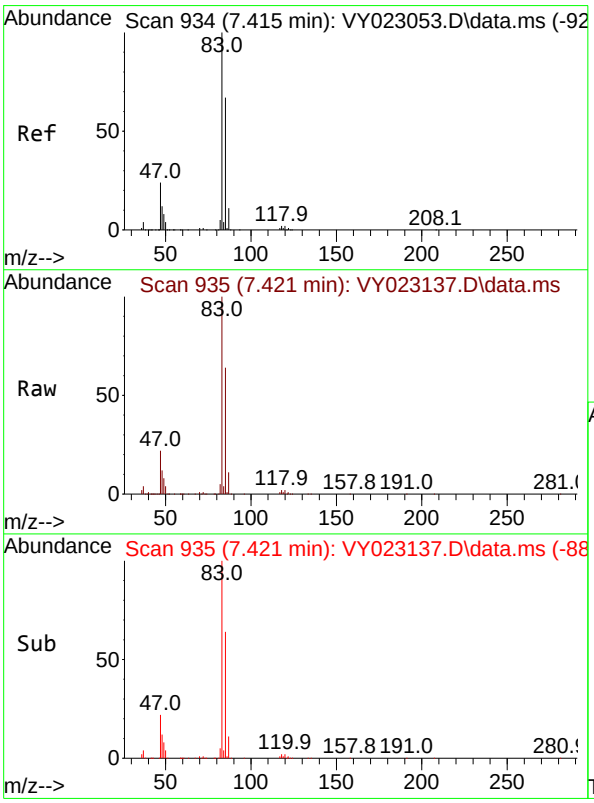
#29
Tetrahydrofuran
Concen: 226.737 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 221133

Ion	Ratio	Lower	Upper
42	100		
72	51.1	39.4	59.2
71	48.6	36.5	54.7

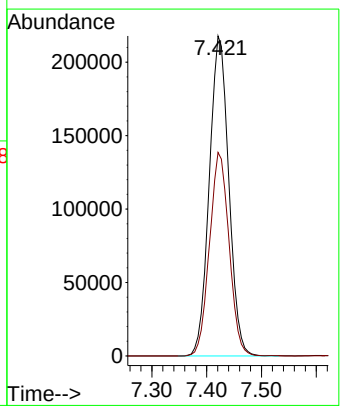


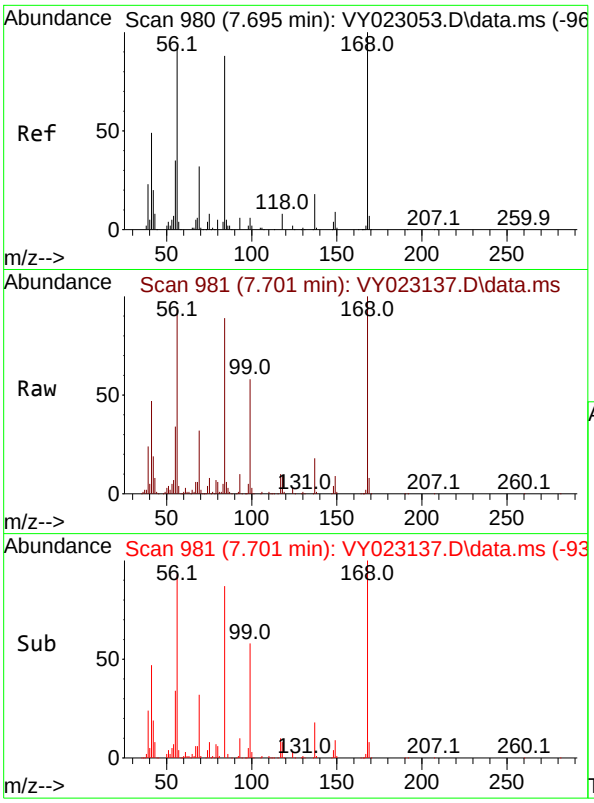


#30
Chloroform
Concen: 49.287 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 536519

Ion	Ratio	Lower	Upper
83	100		
85	63.6	53.8	80.8



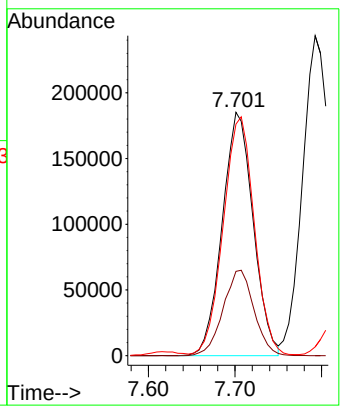


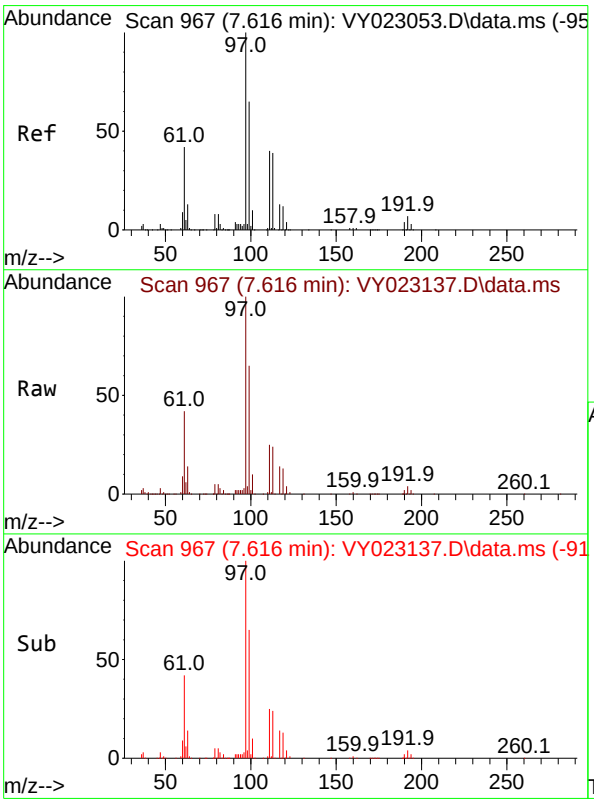
#31
Cyclohexane
Concen: 46.269 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 460210

Ion	Ratio	Lower	Upper
56	100		
69	34.6	28.2	42.2
84	94.2	76.6	114.8

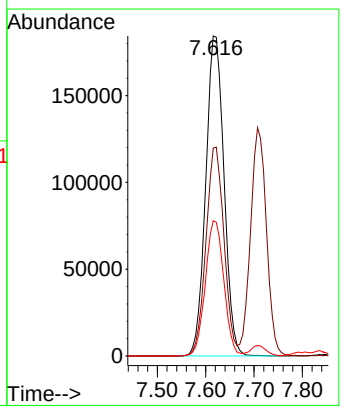


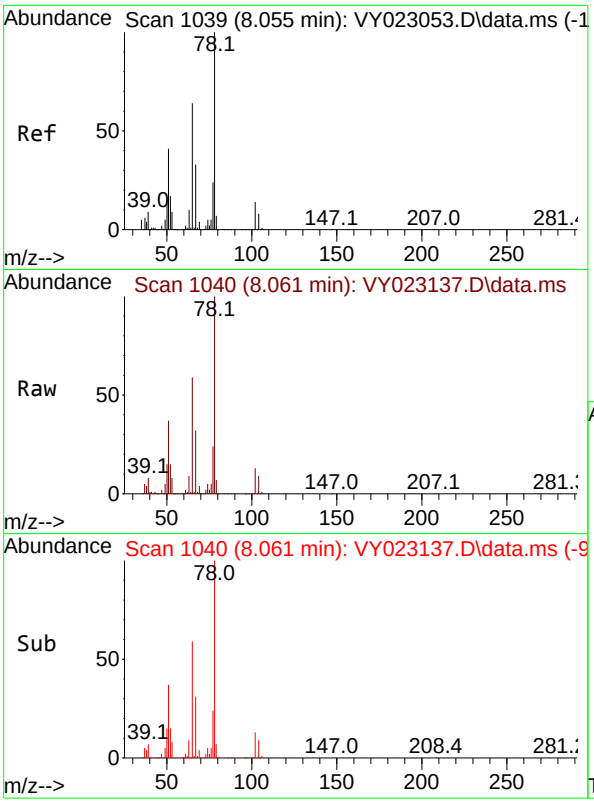


#32
1,1,1-Trichloroethane
Concen: 50.106 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 97 Resp: 483961

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	42.7	34.2	51.2



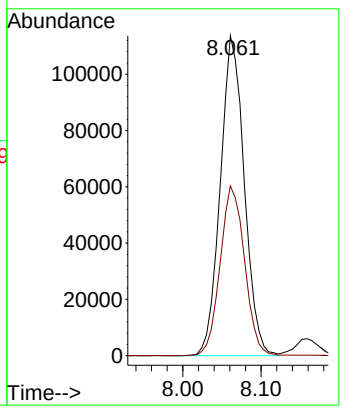


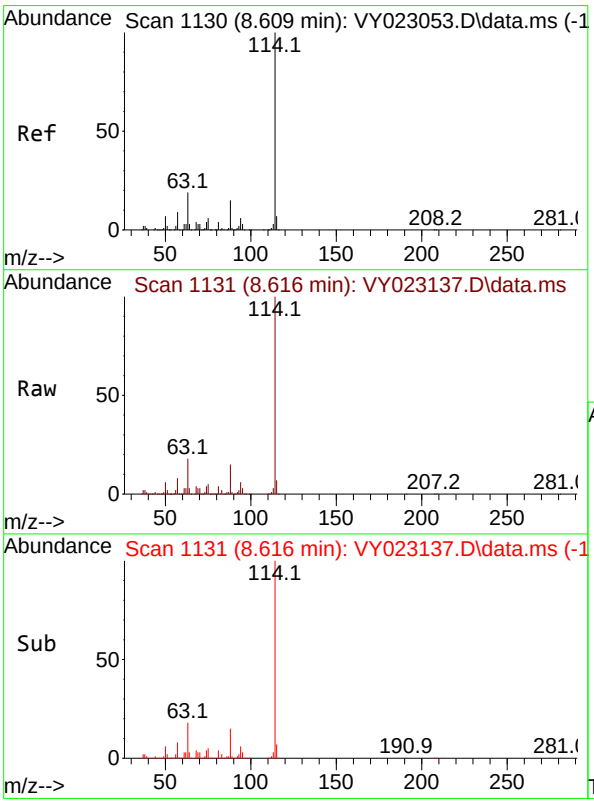
#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 241668

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	106.8

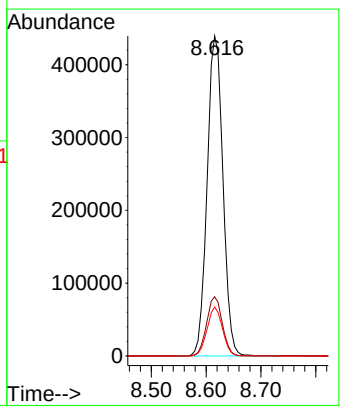


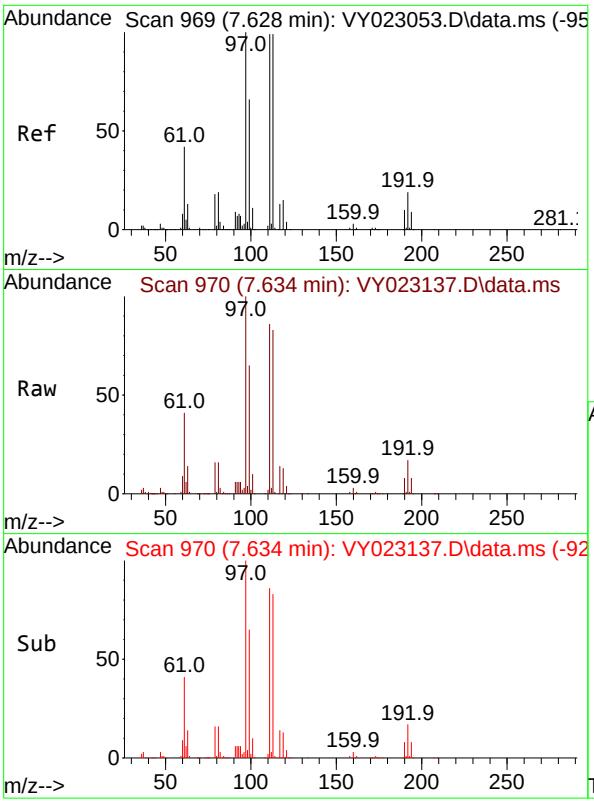


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:114 Resp: 876189

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	38.4
88	15.3	0.0	30.0



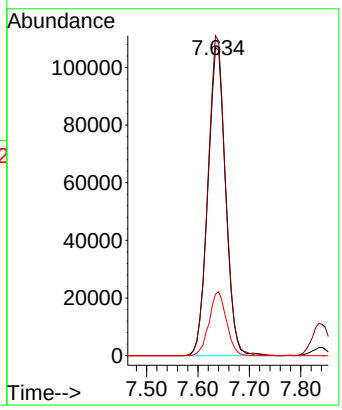


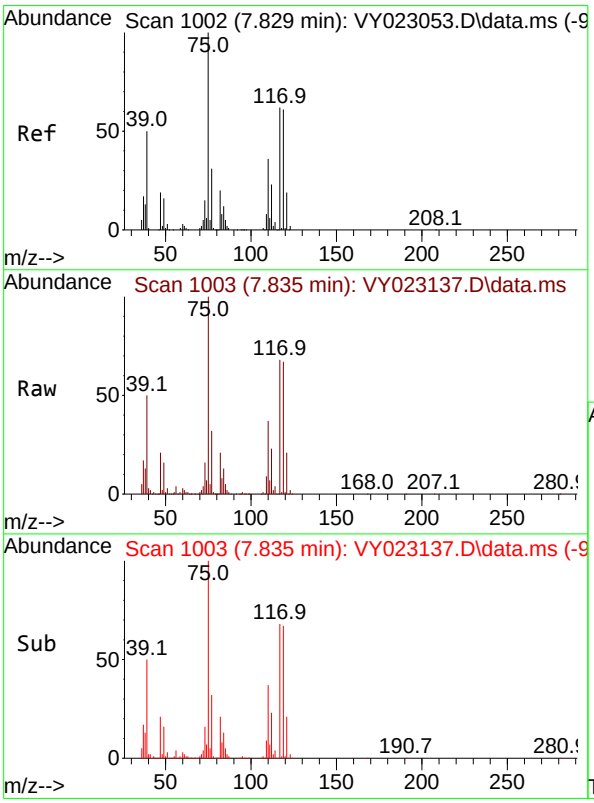
#35
Dibromofluoromethane
Concen: 48.854 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 256133

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	20.3	16.2	24.4

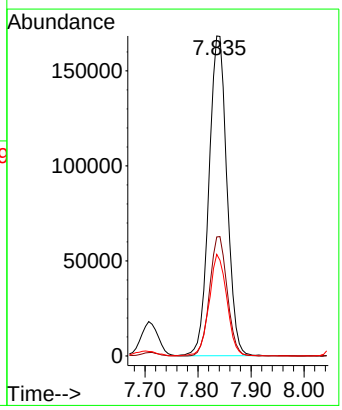


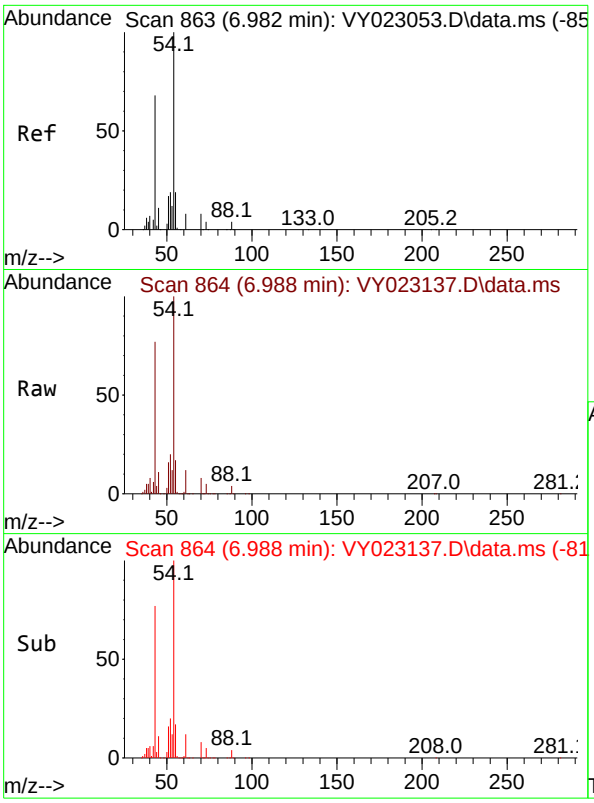


#36
1,1-Dichloropropene
Concen: 50.818 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 395952

Ion	Ratio	Lower	Upper
75	100		
110	36.7	18.1	54.4
77	31.3	24.6	37.0



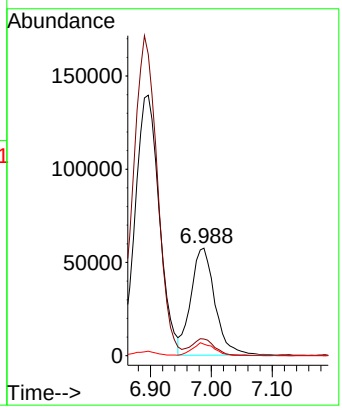


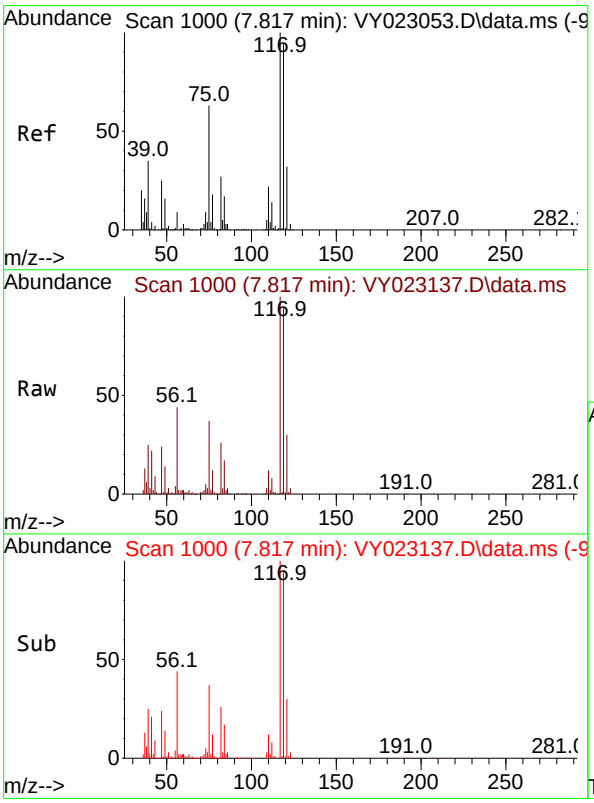
#37
Ethyl Acetate
Concen: 48.006 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 157126

Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.9	17.9
70	11.1	8.8	13.2

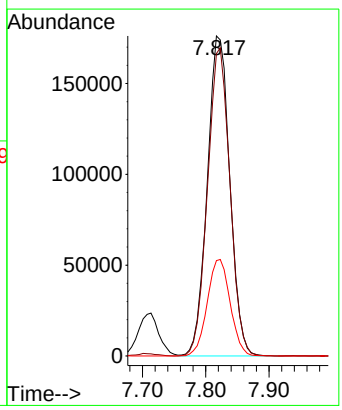


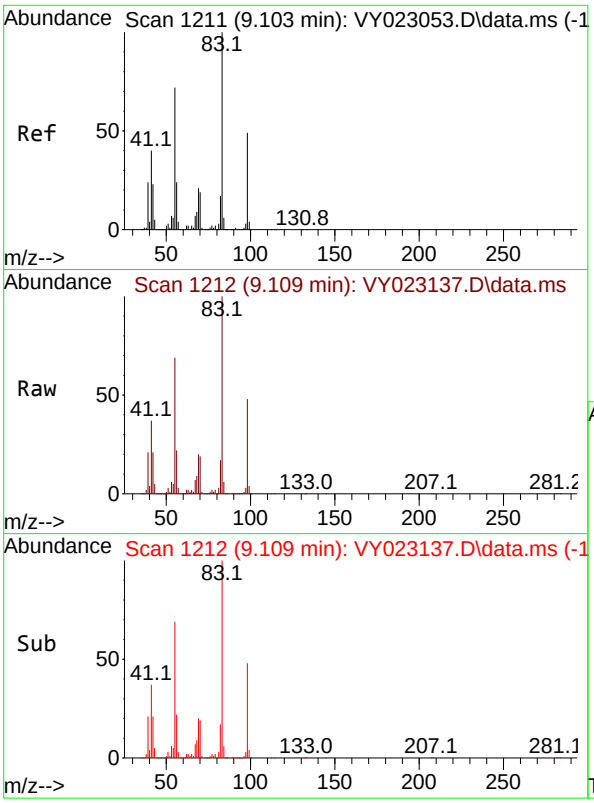


#38
Carbon Tetrachloride
Concen: 51.581 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 436510

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	29.8	25.8	38.8



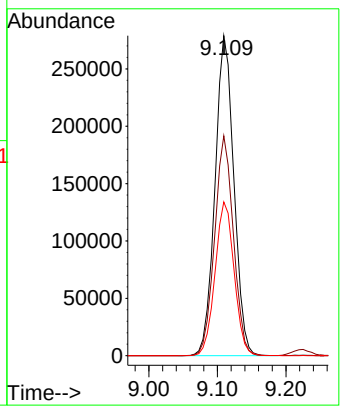


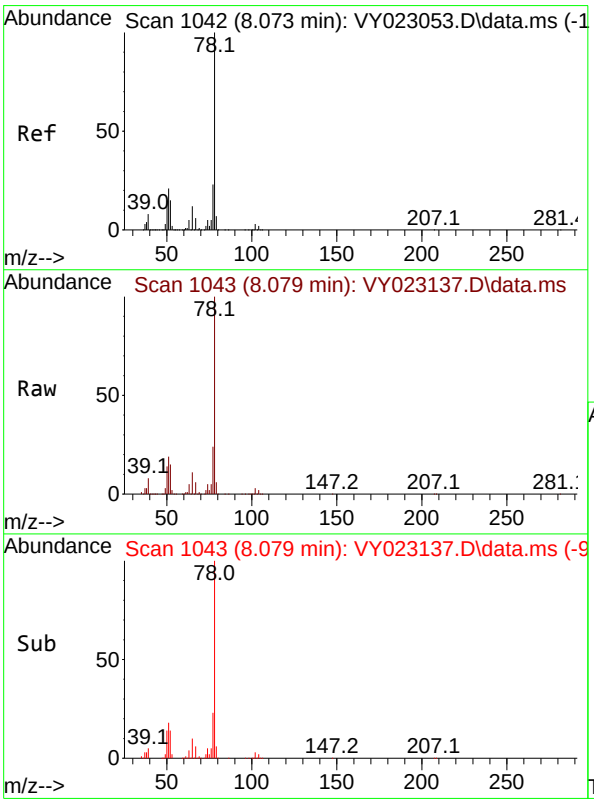
#39
Methylcyclohexane
Concen: 51.832 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 531826

Ion	Ratio	Lower	Upper
83	100		
55	68.7	57.6	86.4
98	48.0	39.2	58.8

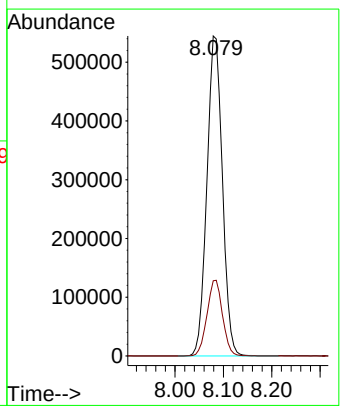


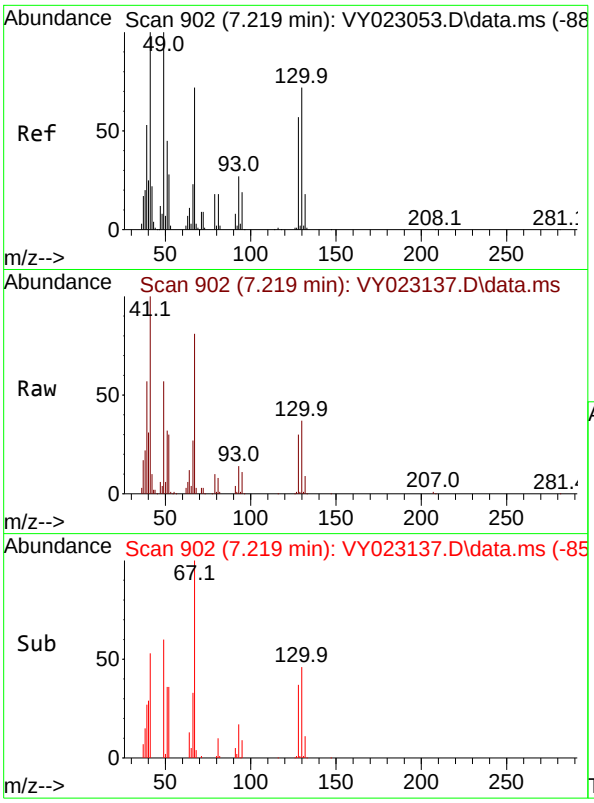


#40
Benzene
Concen: 50.401 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 78 Resp: 1210380

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0



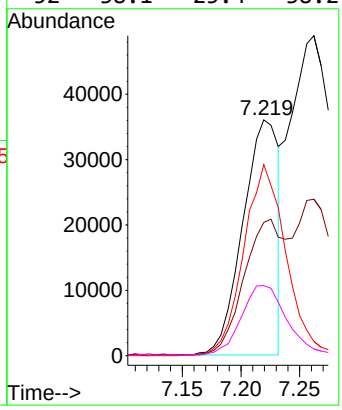


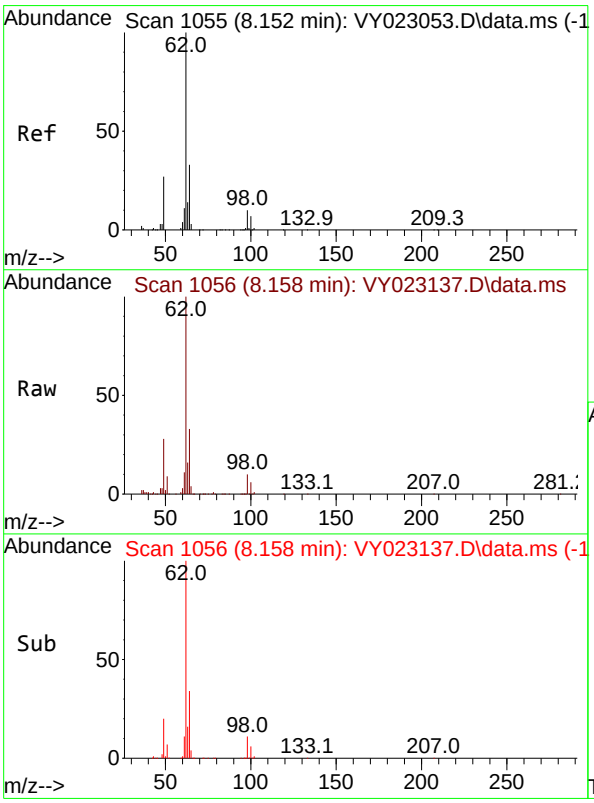
#41
Methacrylonitrile
Concen: 40.191 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 75919

Ion	Ratio	Lower	Upper
41	100		
39	65.0	43.4	65.2
67	96.5	63.6	95.4#
52	38.1	25.4	38.2

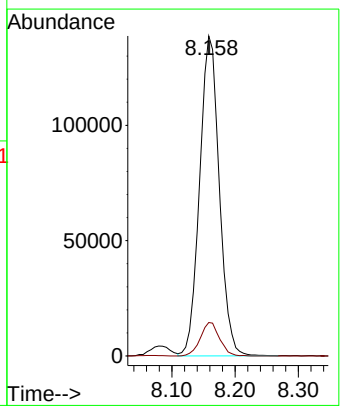


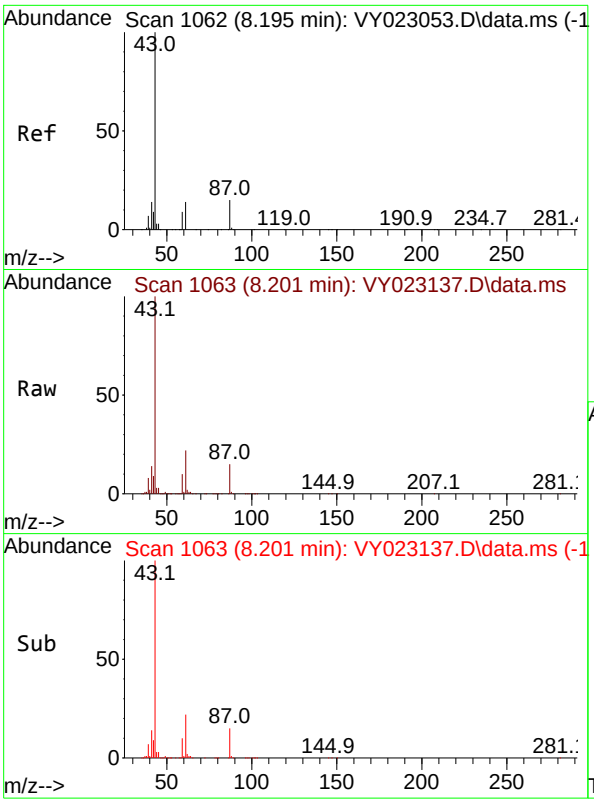


#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 300070

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.6



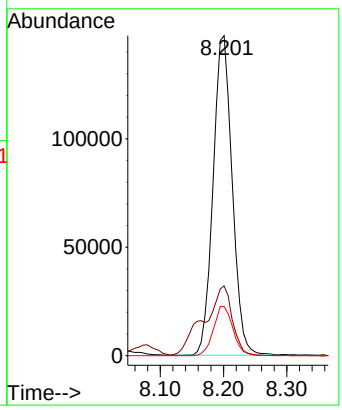


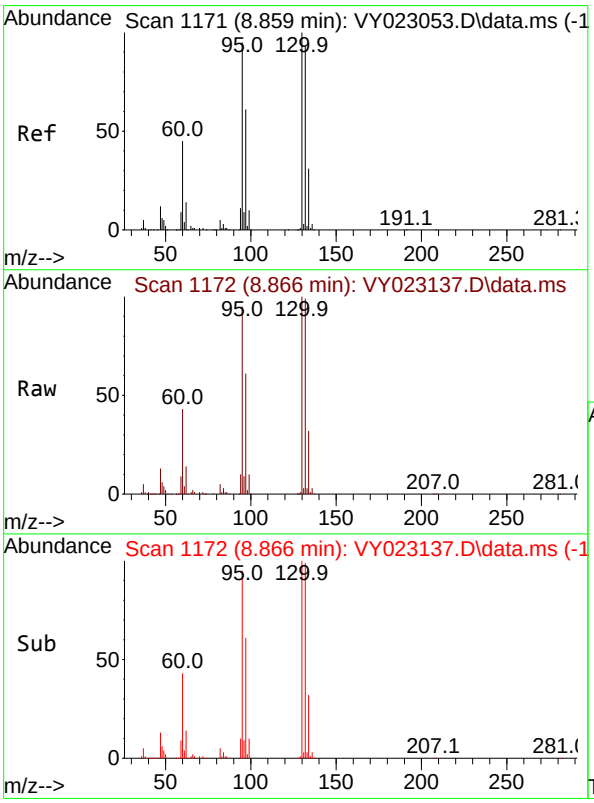
#43
Isopropyl Acetate
Concen: 46.703 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 308955

Ion	Ratio	Lower	Upper
43	100		
61	32.2	16.4	24.6#
87	15.7	11.8	17.6

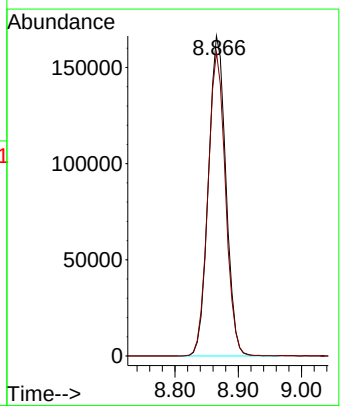


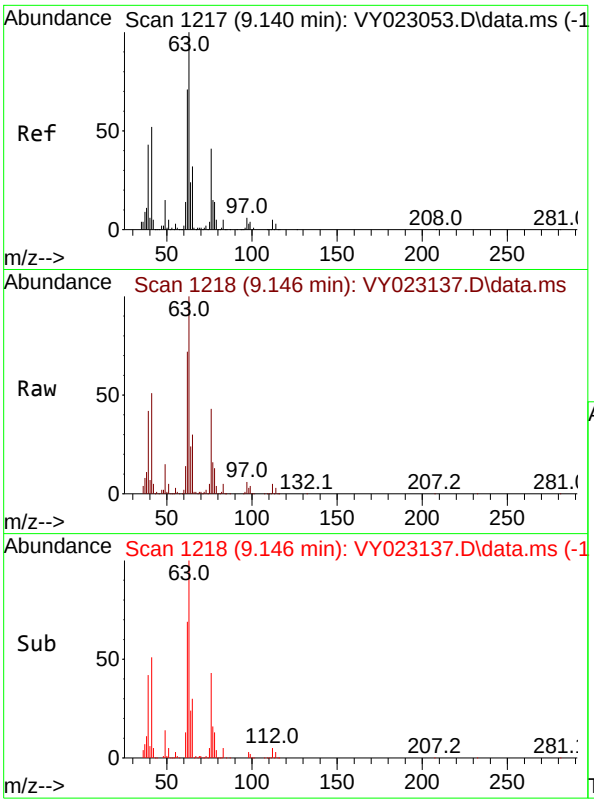


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:130 Resp: 319381

Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	190.2



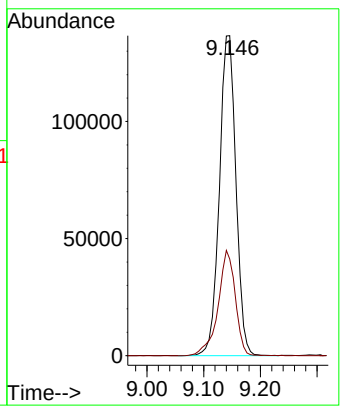


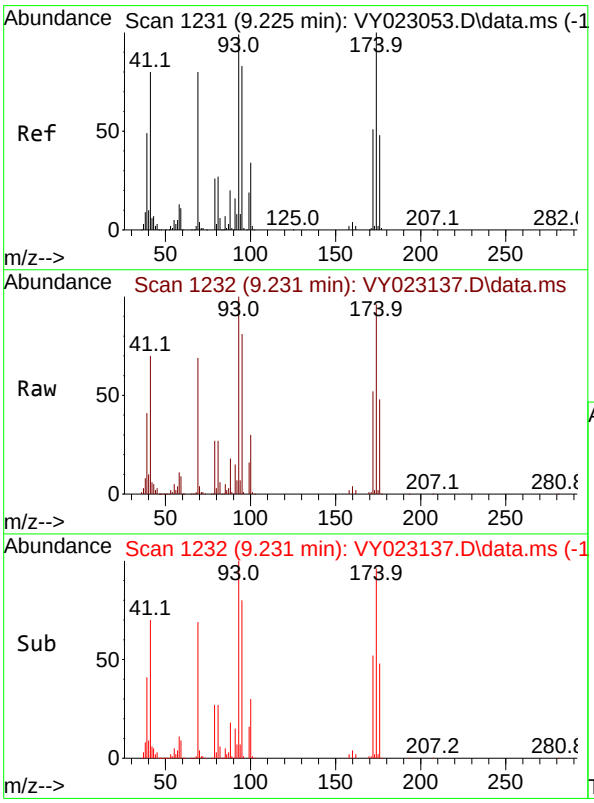
#45
1,2-Dichloropropane
Concen: 50.044 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 276520

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.3	37.9

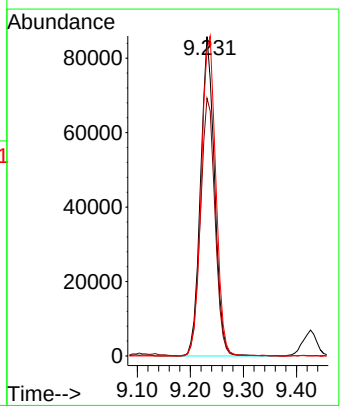


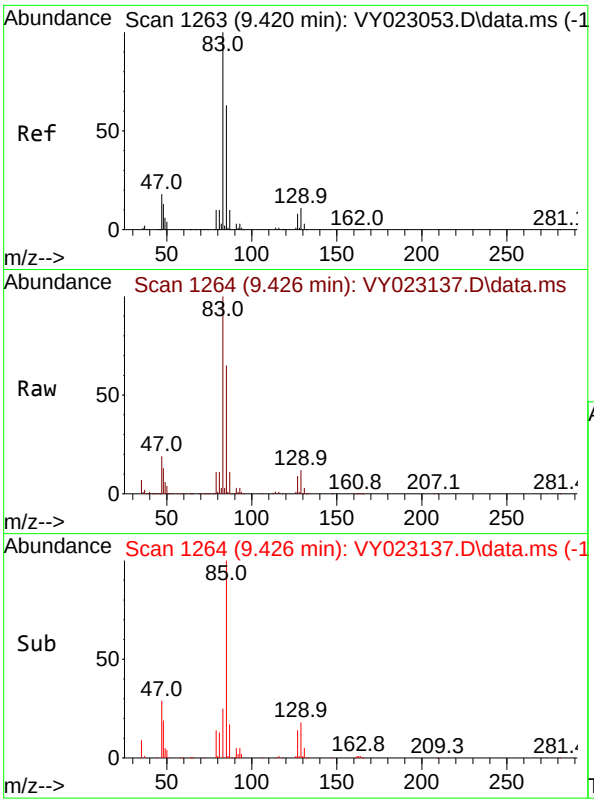


#46
Dibromomethane
Concen: 49.637 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 93 Resp: 157422

Ion	Ratio	Lower	Upper
93	100		
95	83.8	66.5	99.7
174	103.7	81.8	122.8



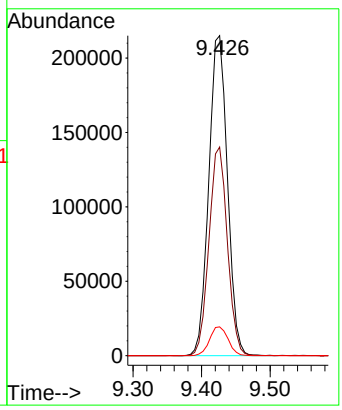


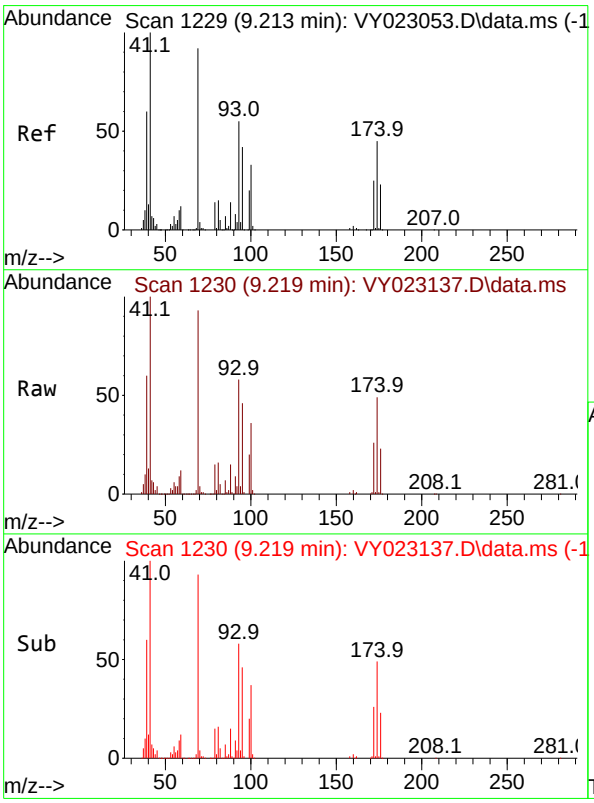
#47
Bromodichloromethane
Concen: 49.781 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 406246

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.2	75.4
127	9.0	6.6	10.0

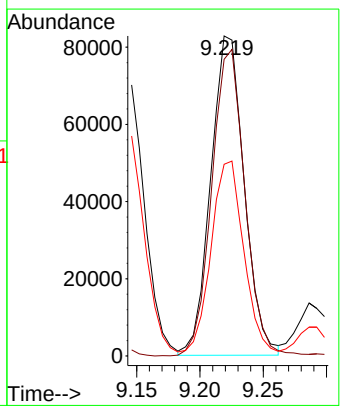


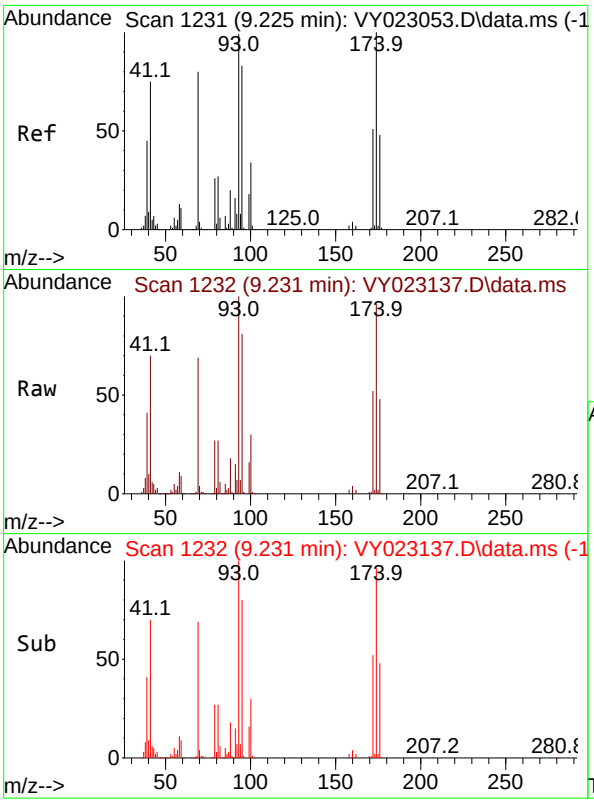


#48
Methyl methacrylate
Concen: 48.023 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 152020

Ion	Ratio	Lower	Upper
41	100		
69	95.3	73.2	109.8
39	58.1	47.0	70.4



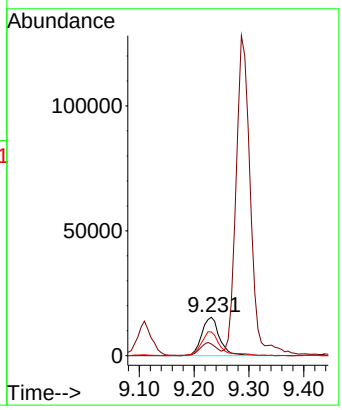


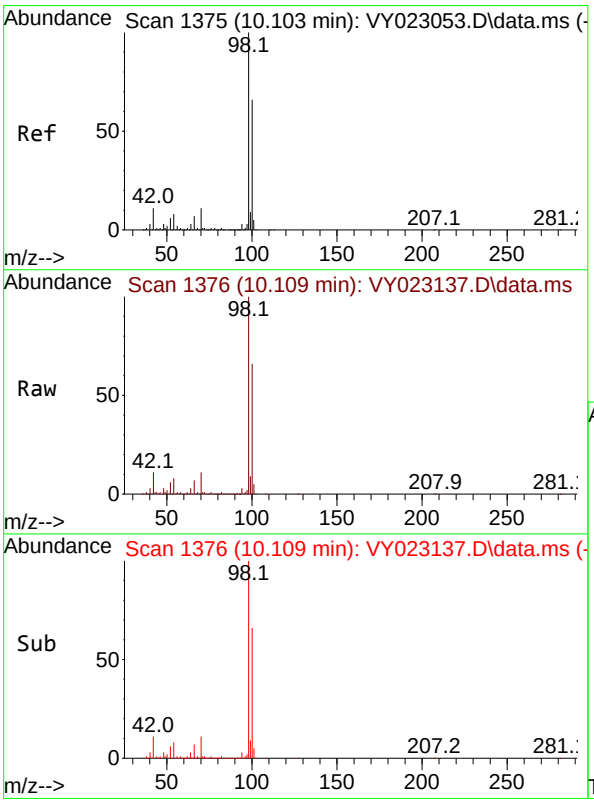
#49
1,4-Dioxane
Concen: 934.713 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 34759

Ion	Ratio	Lower	Upper
88	100		
43	30.0	24.3	36.5
58	65.6	55.4	83.0

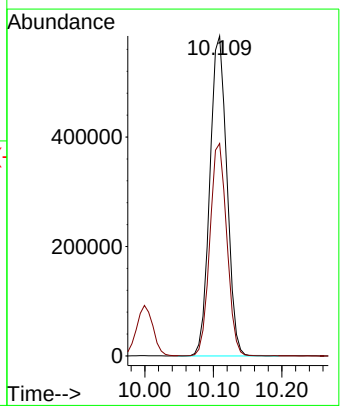


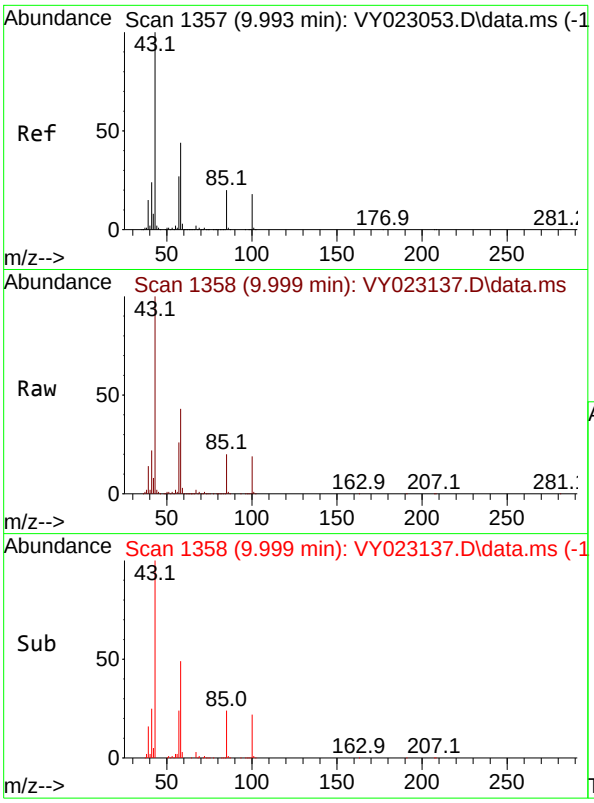


#50
Toluene-d8
Concen: 49.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 98 Resp: 1008048

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.3	78.5



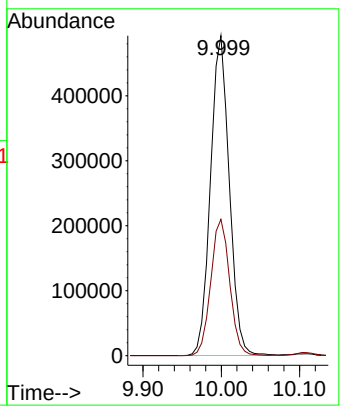


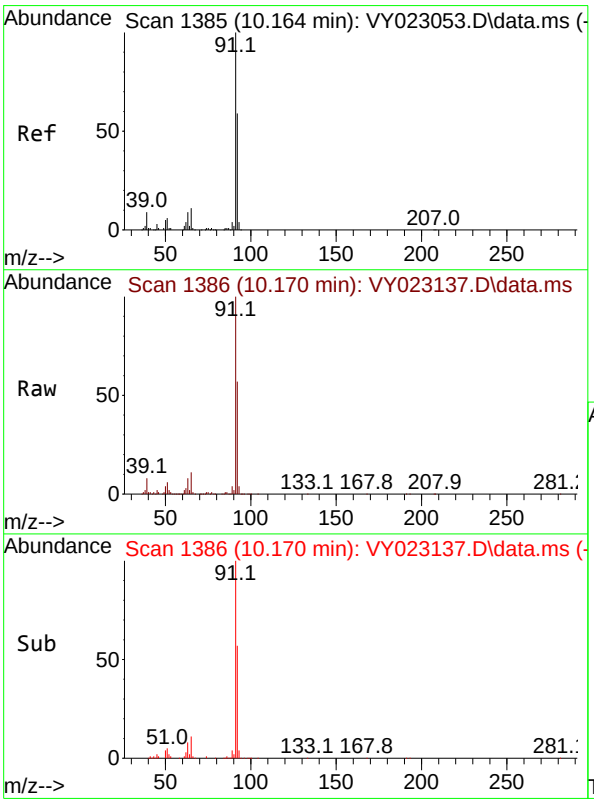
#51
4-Methyl-2-Pentanone
Concen: 240.906 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 822061

Ion	Ratio	Lower	Upper
43	100		
58	43.0	33.5	50.3

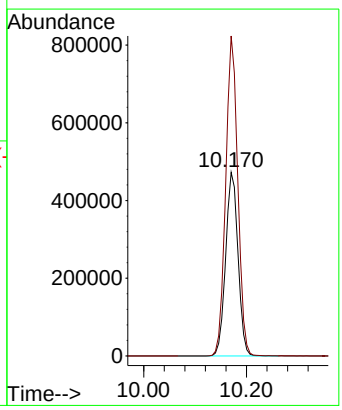


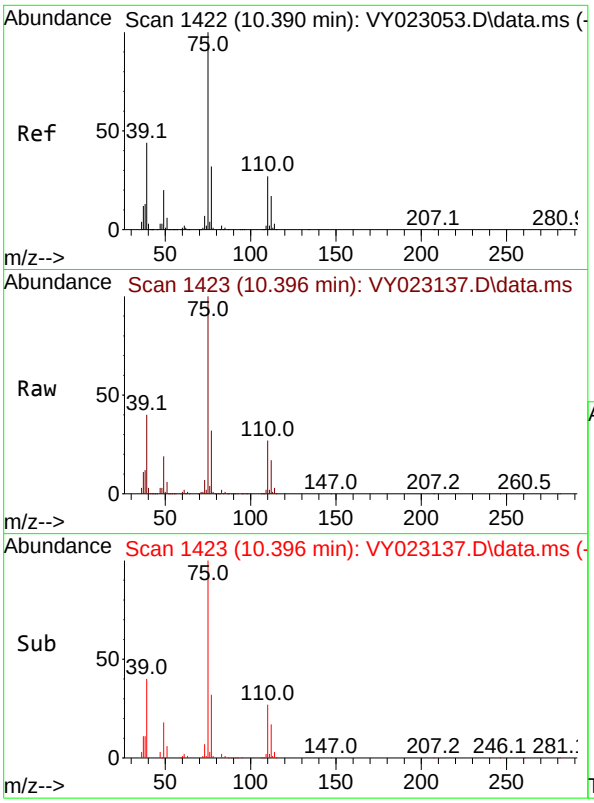


#52
Toluene
Concen: 51.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 92 Resp: 788070

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6



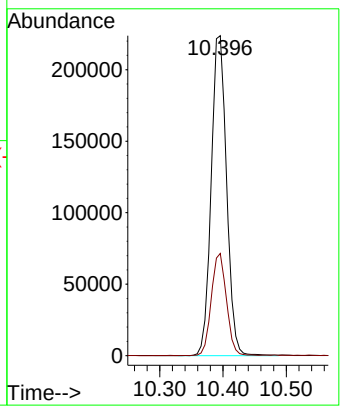


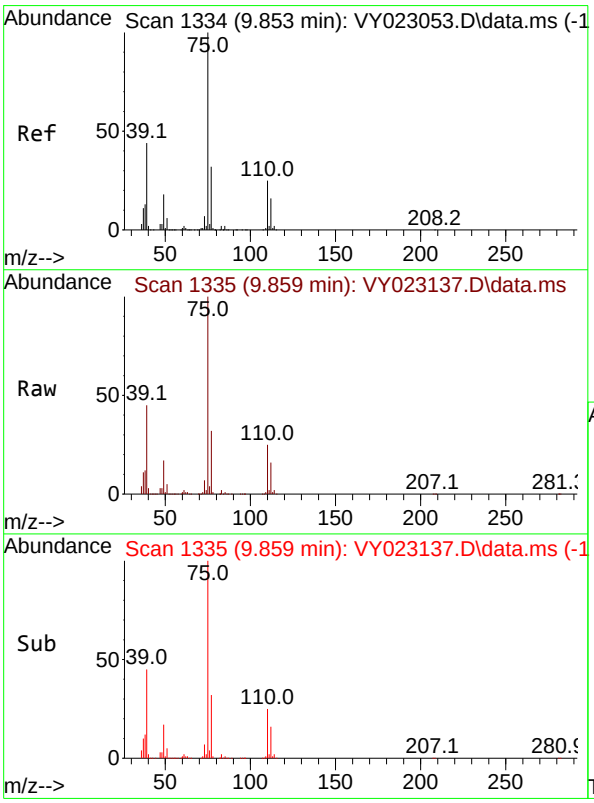
#53
t-1,3-Dichloropropene
Concen: 51.112 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 377708

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5

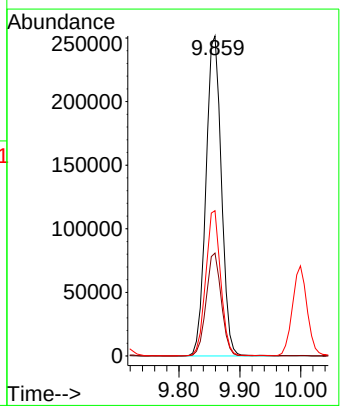


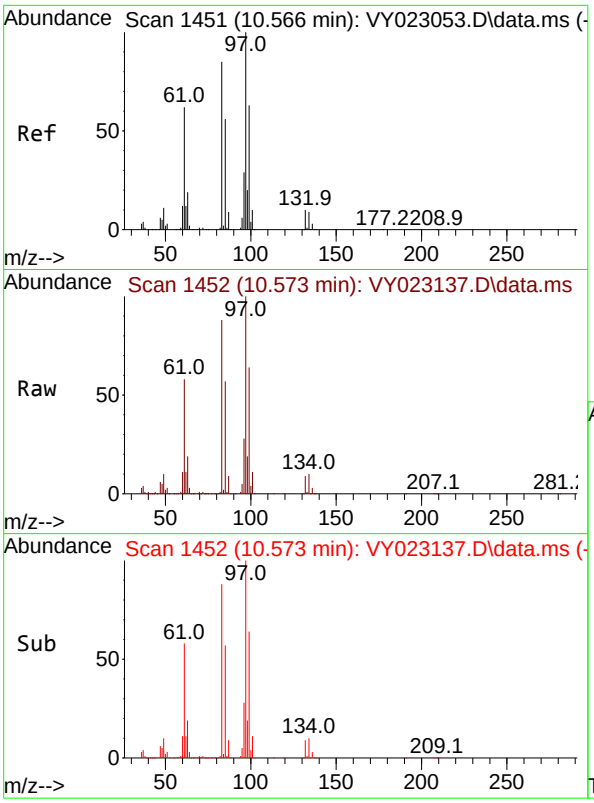


#54
cis-1,3-Dichloropropene
Concen: 50.516 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 441435

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.0
39	45.3	35.6	53.4



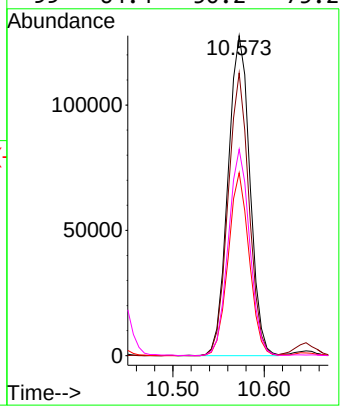


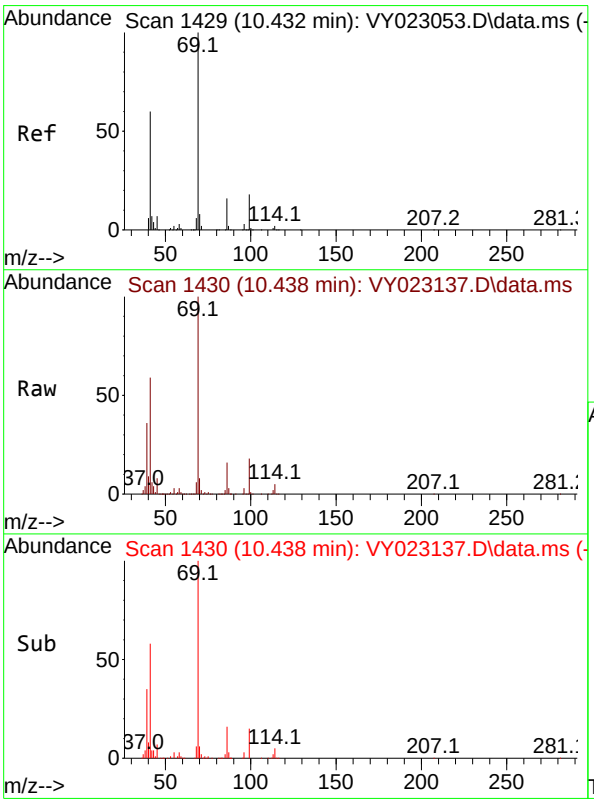
#55
1,1,2-Trichloroethane
Concen: 50.206 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 213063

Ion	Ratio	Lower	Upper
97	100		
83	88.4	67.7	101.5
85	57.1	44.5	66.7
99	64.4	50.2	75.2

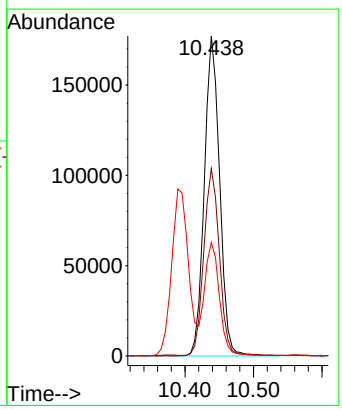


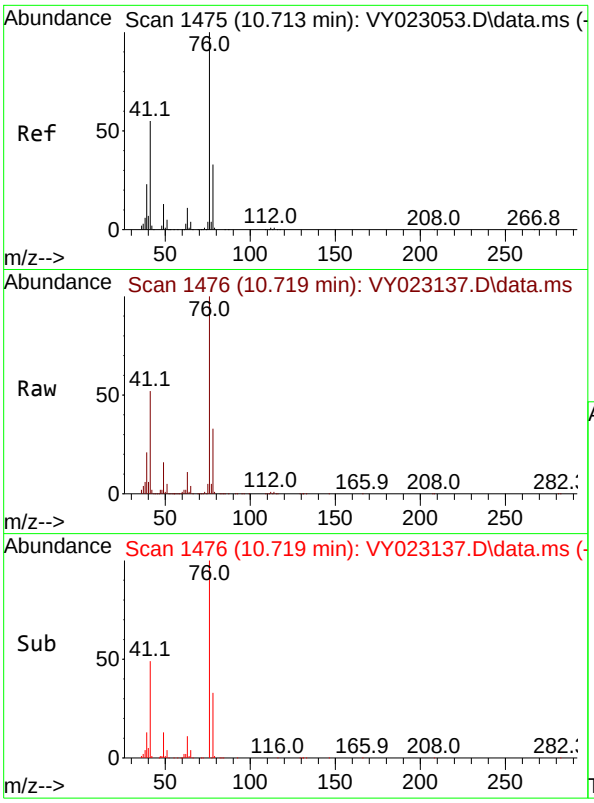


#56
Ethyl methacrylate
Concen: 50.859 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 69 Resp: 276182

Ion	Ratio	Lower	Upper
69	100		
41	59.0	48.6	72.8
39	33.7	27.0	40.4



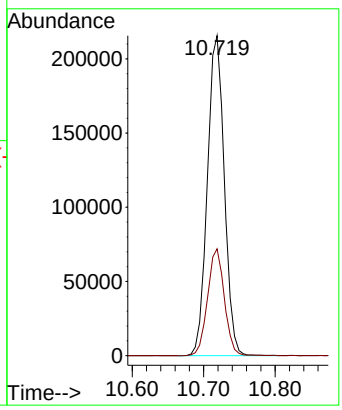


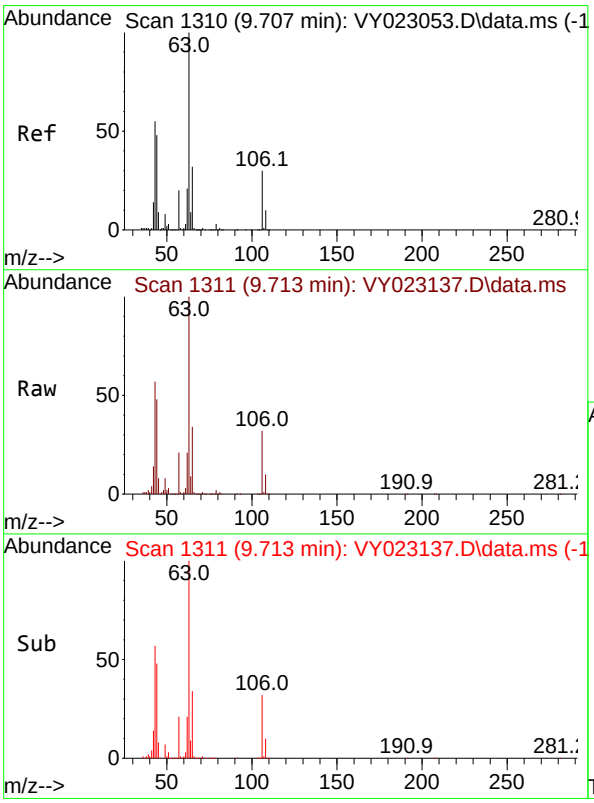
#57
1,3-Dichloropropane
Concen: 49.273 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 354628

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0

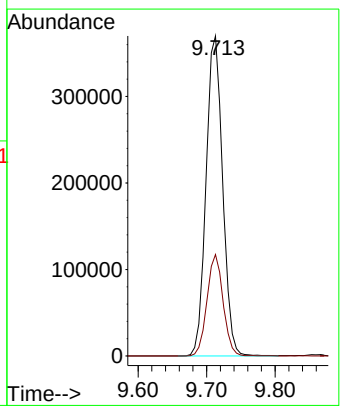


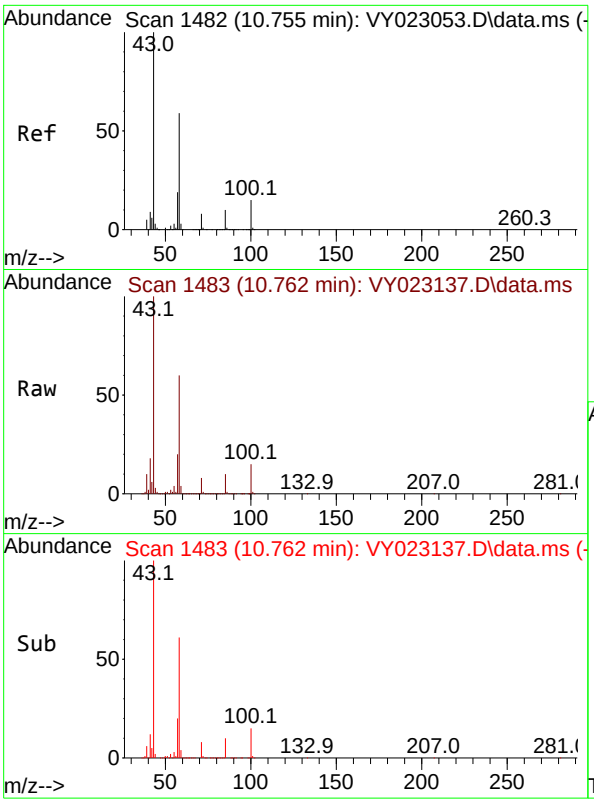


#58
2-Chloroethyl Vinyl ether
Concen: 242.835 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 622022

Ion	Ratio	Lower	Upper
63	100		
106	30.8	23.2	34.8



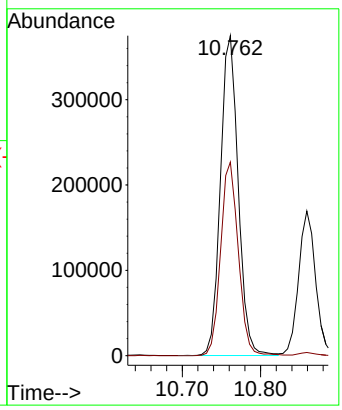


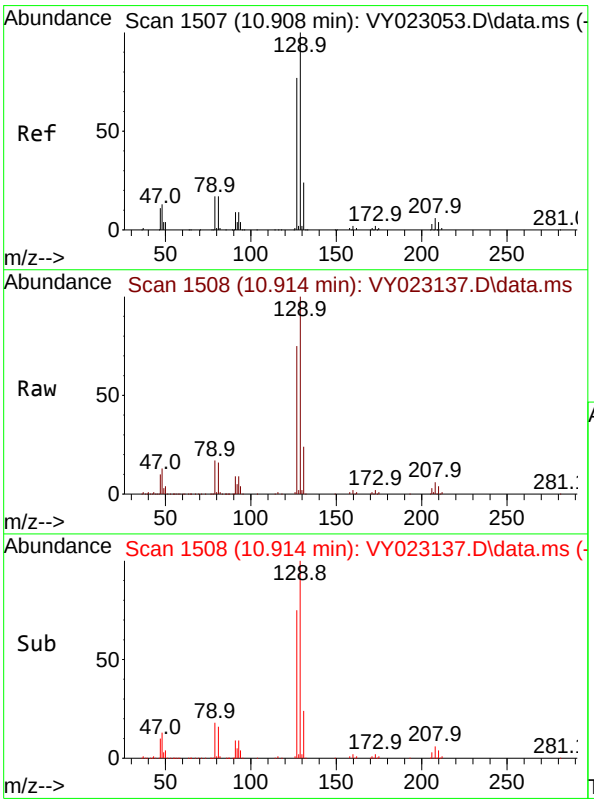
#59
2-Hexanone
Concen: 254.865 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 592202

Ion	Ratio	Lower	Upper
43	100		
58	60.2	29.5	88.5

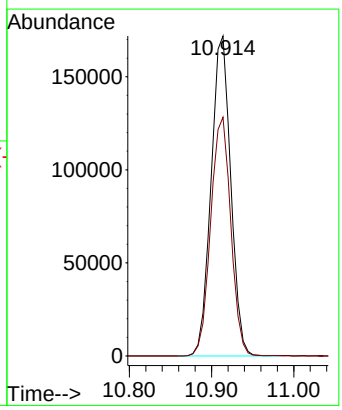


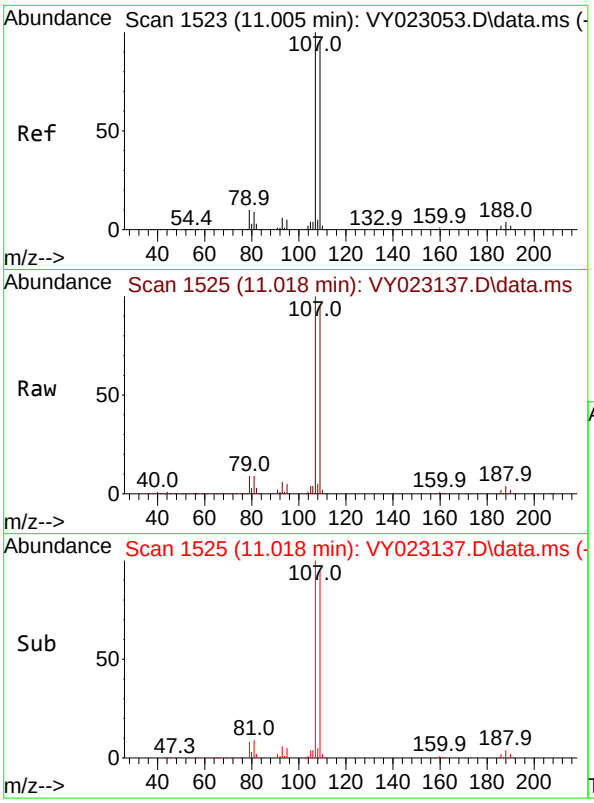


#60
Dibromochloromethane
Concen: 50.963 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:129 Resp: 285374

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.5	115.5



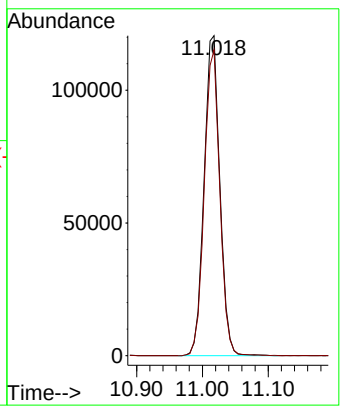


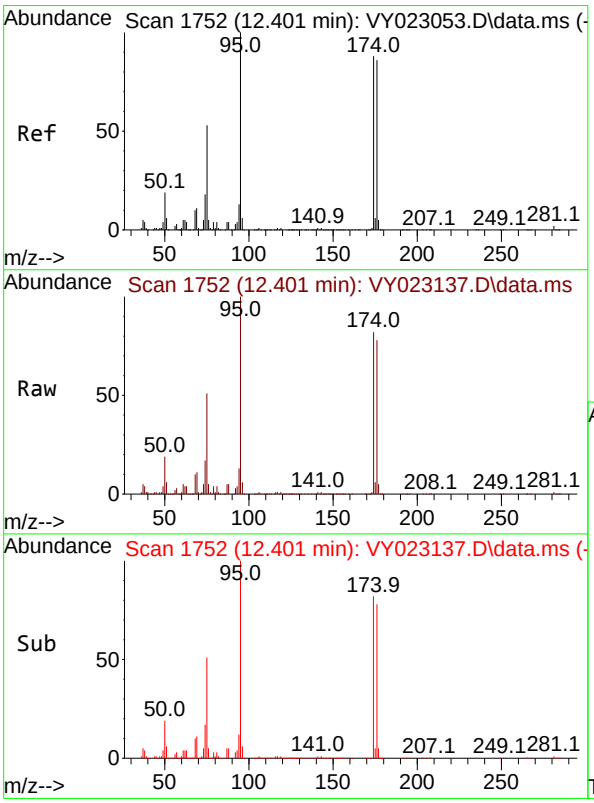
#61
1,2-Dibromoethane
Concen: 50.411 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 201073

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.6	113.4

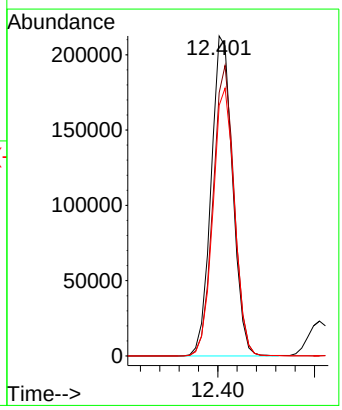


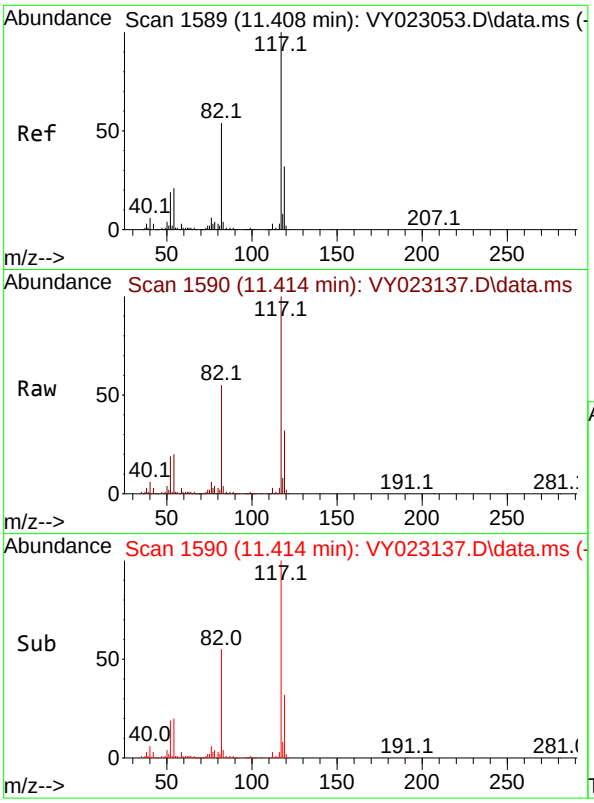


#62
4-Bromofluorobenzene
Concen: 49.618 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 95 Resp: 326827

Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	171.6
176	84.4	0.0	167.6



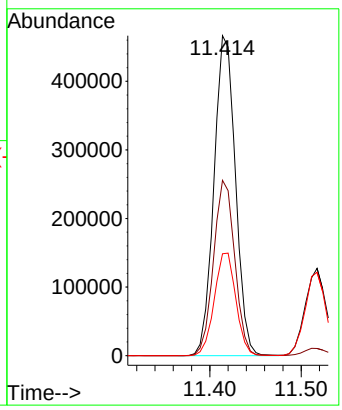


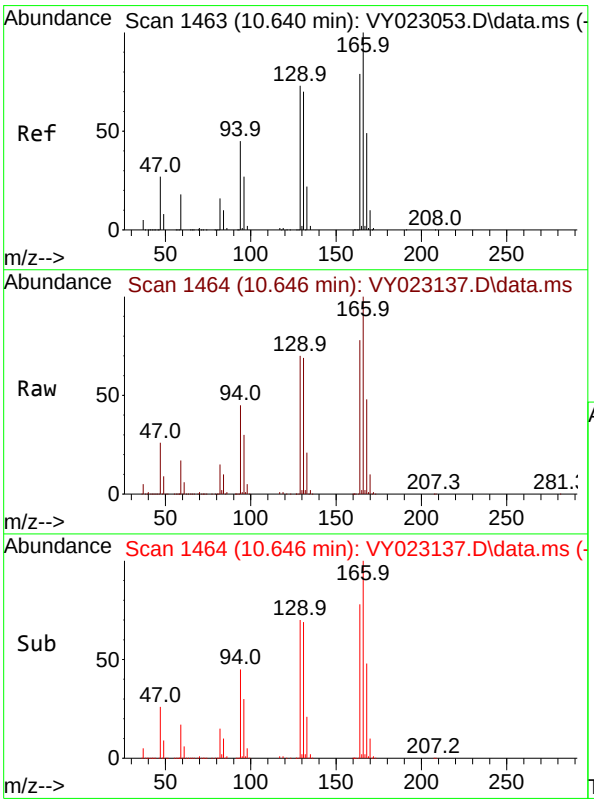
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 761785

Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.0
119	31.8	25.6	38.4

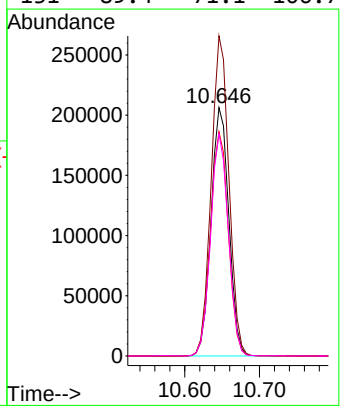


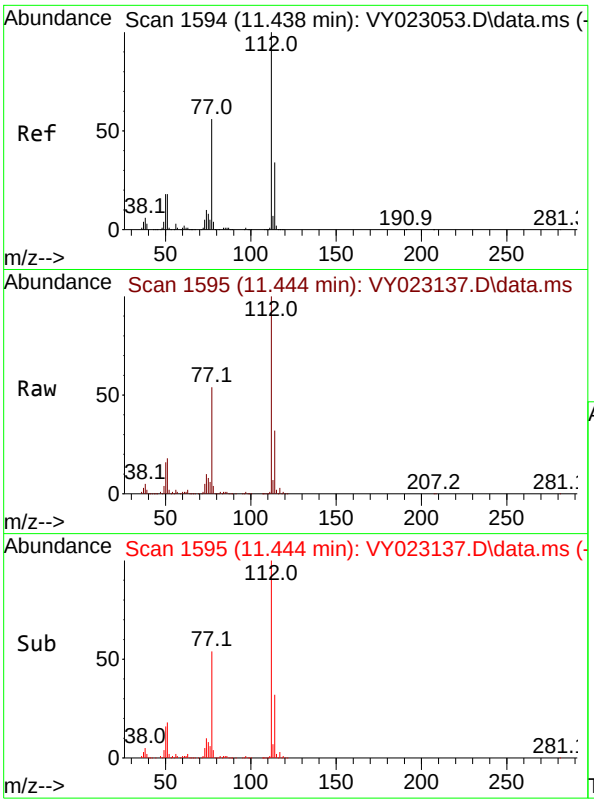


#64
Tetrachloroethene
Concen: 50.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:164 Resp: 342427

Ion	Ratio	Lower	Upper
164	100		
166	128.9	101.1	151.7
129	90.3	74.0	111.0
131	89.4	71.1	106.7



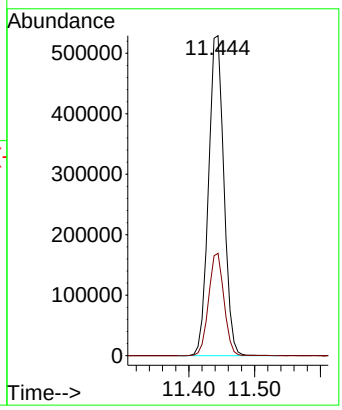


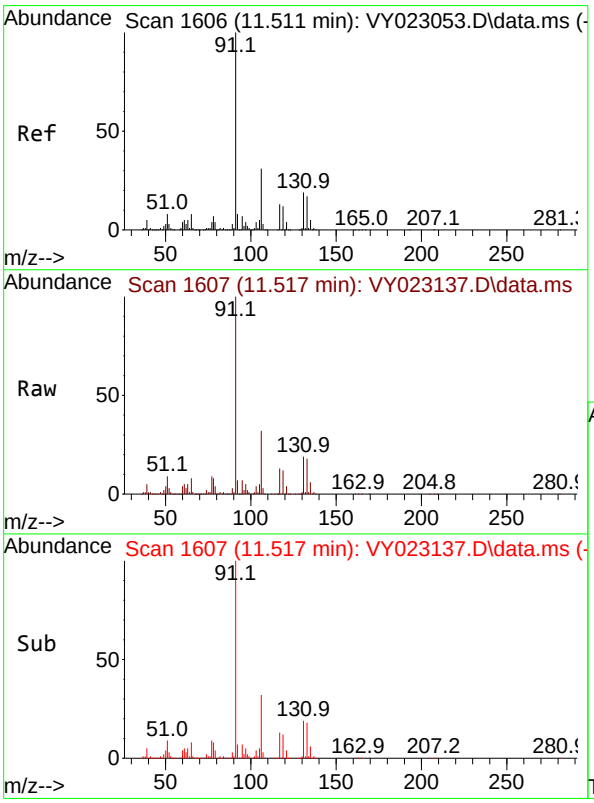
#65
Chlorobenzene
Concen: 52.238 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 858367

Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.0	40.4

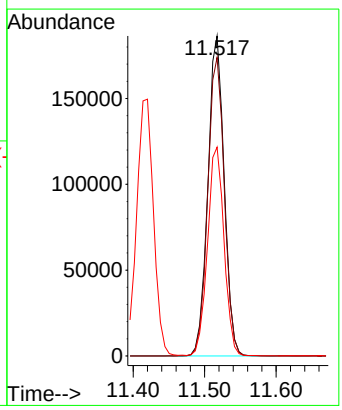


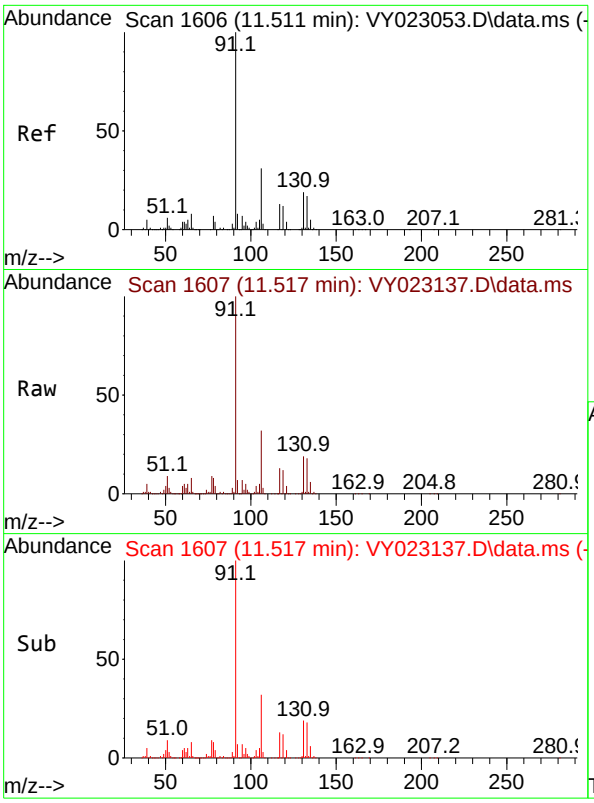


#66
1,1,1,2-Tetrachloroethane
Concen: 52.900 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:131 Resp: 295011

Ion	Ratio	Lower	Upper
131	100		
133	94.9	46.9	140.6
119	66.2	33.2	99.6



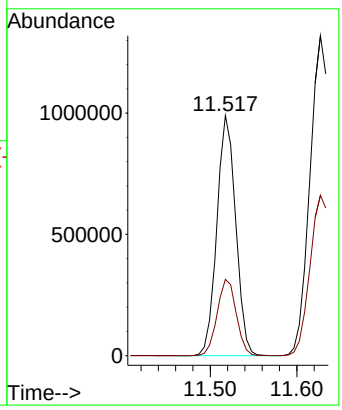


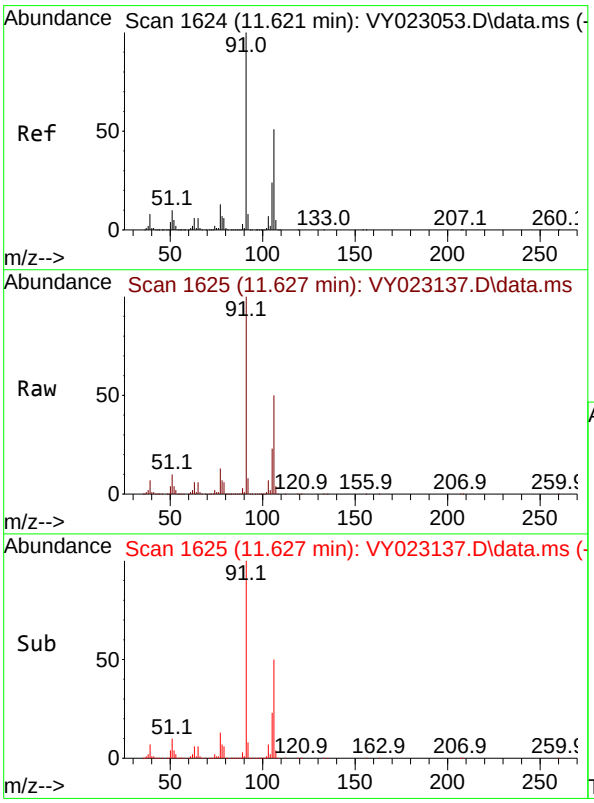
#67
Ethyl Benzene
Concen: 52.850 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1494465

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

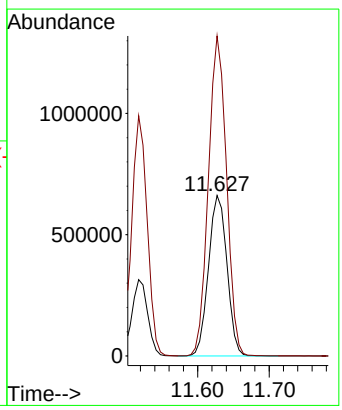


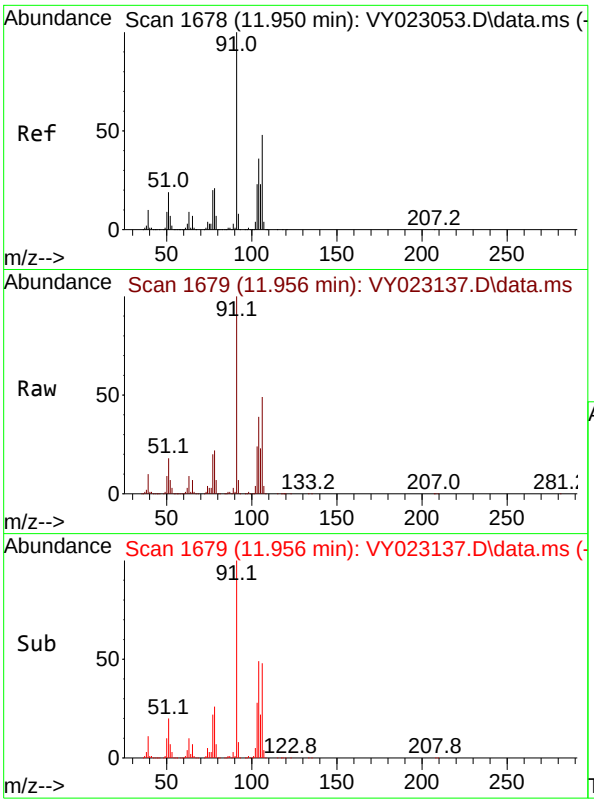


#68
m/p-Xylenes
Concen: 107.397 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 1186104

Ion	Ratio	Lower	Upper
106	100		
91	195.6	158.6	238.0



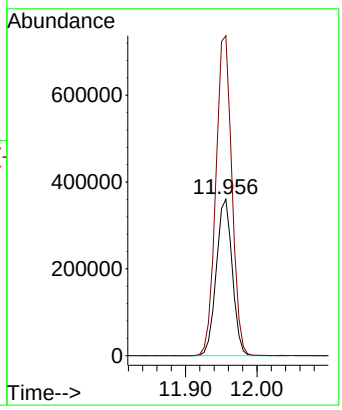


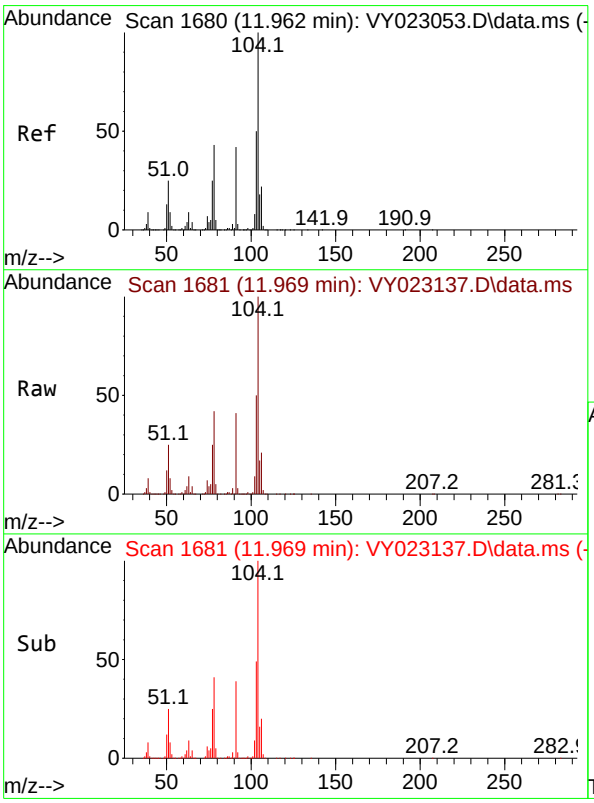
#69
o-Xylene
Concen: 53.940 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 557951

Ion	Ratio	Lower	Upper
106	100		
91	205.8	103.2	309.4

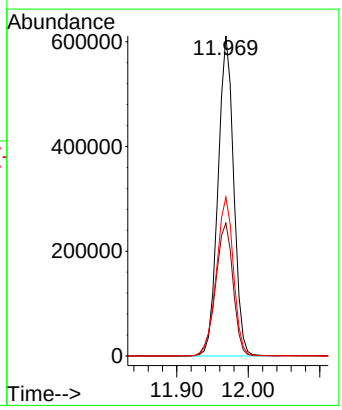


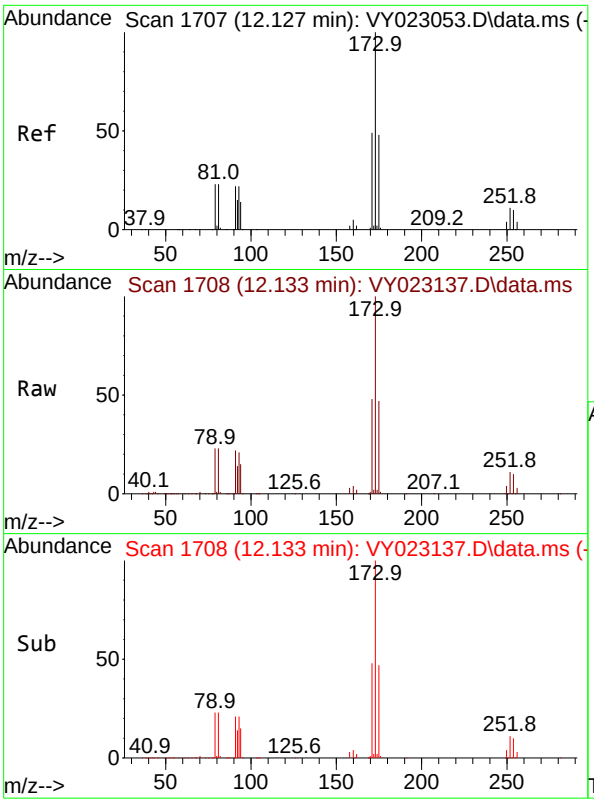


#70
Styrene
Concen: 55.007 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:104 Resp: 930498

Ion	Ratio	Lower	Upper
104	100		
78	46.3	38.5	57.7
103	54.0	43.7	65.5



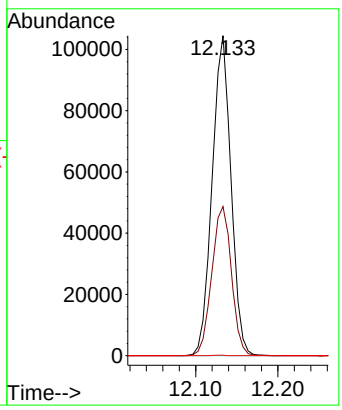


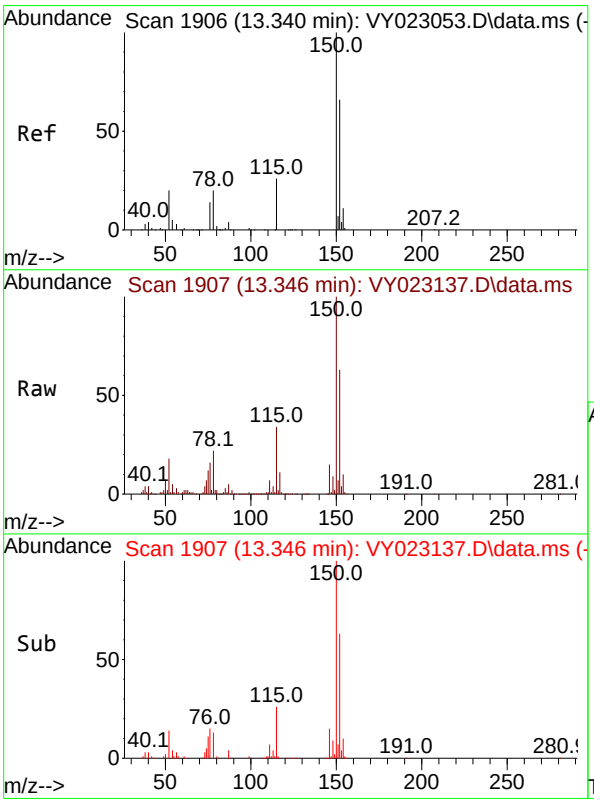
#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 166298

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.1	0.1	0.1

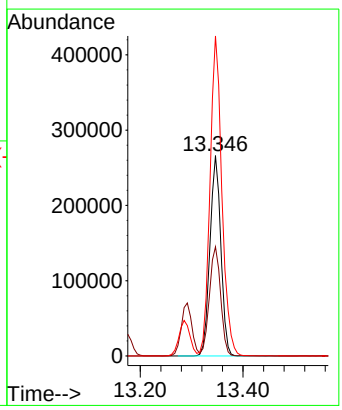


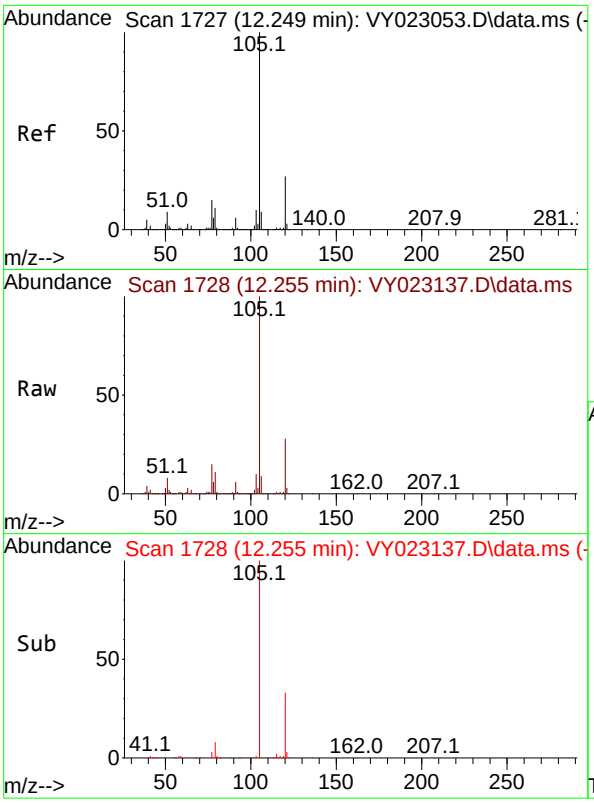


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:152 Resp: 392533

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.2	84.6
150	173.7	0.0	348.0



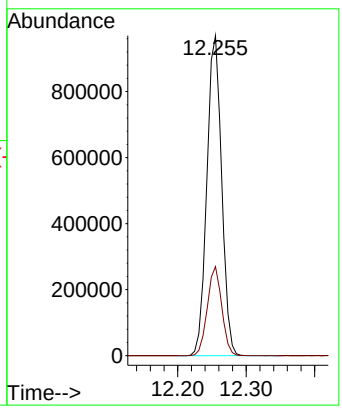


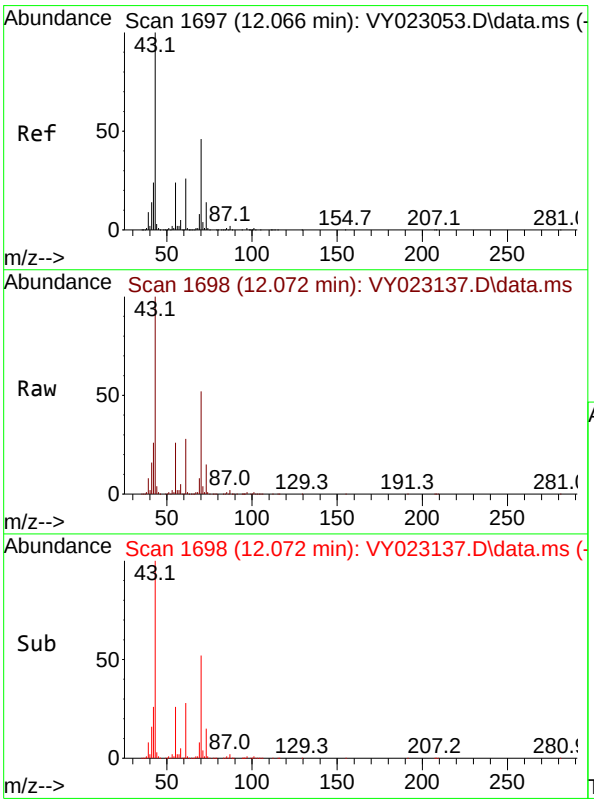
#73
Isopropylbenzene
Concen: 52.528 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1455261

Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.4	40.2

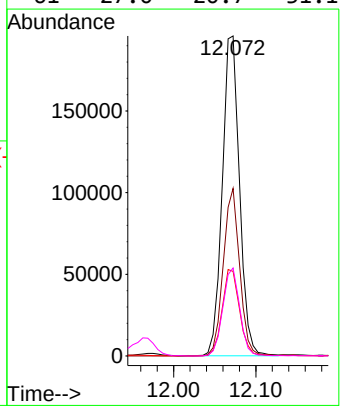


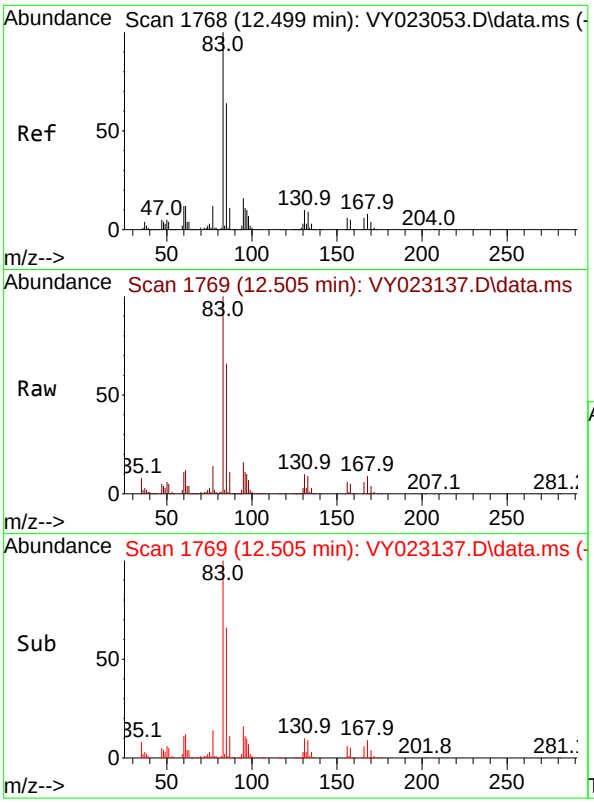


#74
N-amyl acetate
Concen: 48.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 285441

Ion	Ratio	Lower	Upper
43	100		
70	49.8	37.5	56.3
55	27.3	20.7	31.1
61	27.0	20.7	31.1



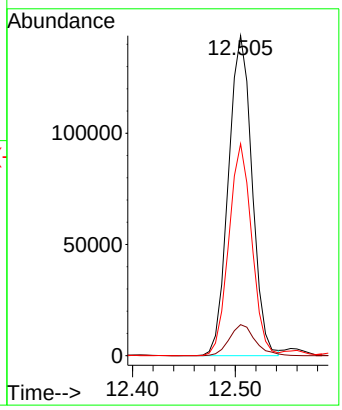


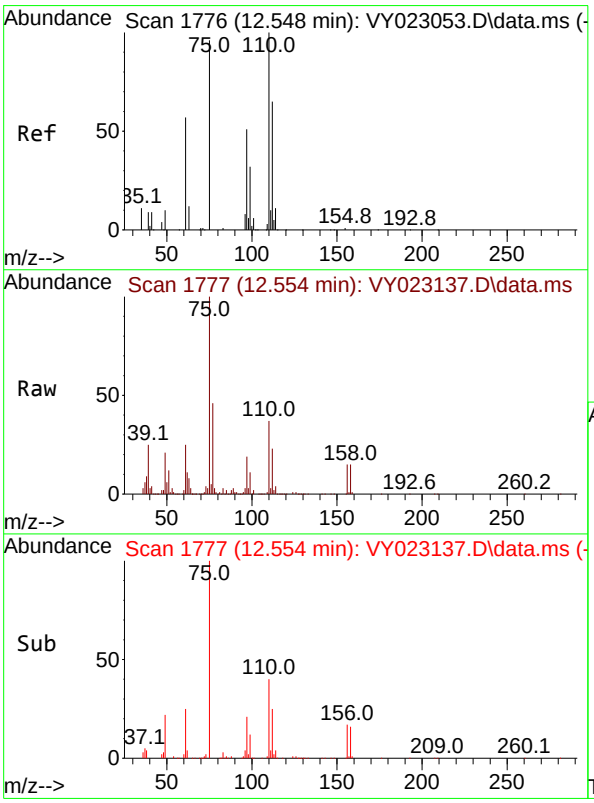
#75
1,1,2,2-Tetrachloroethane
Concen: 48.639 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 230085

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	64.3	31.8	95.3

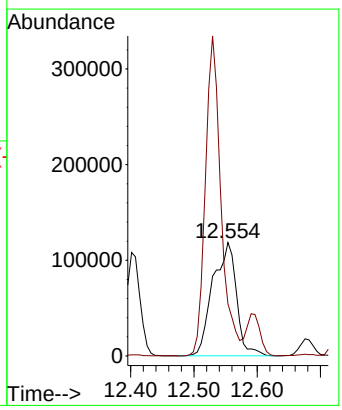


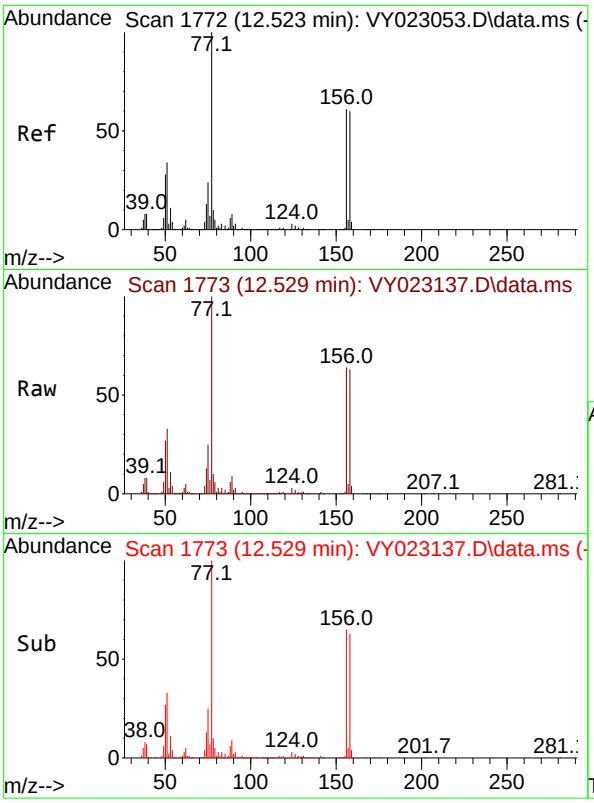


#76
1,2,3-Trichloropropane
Concen: 81.222 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 307699

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



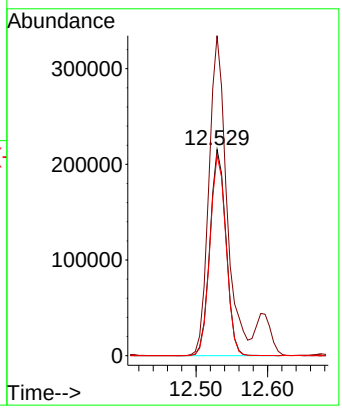


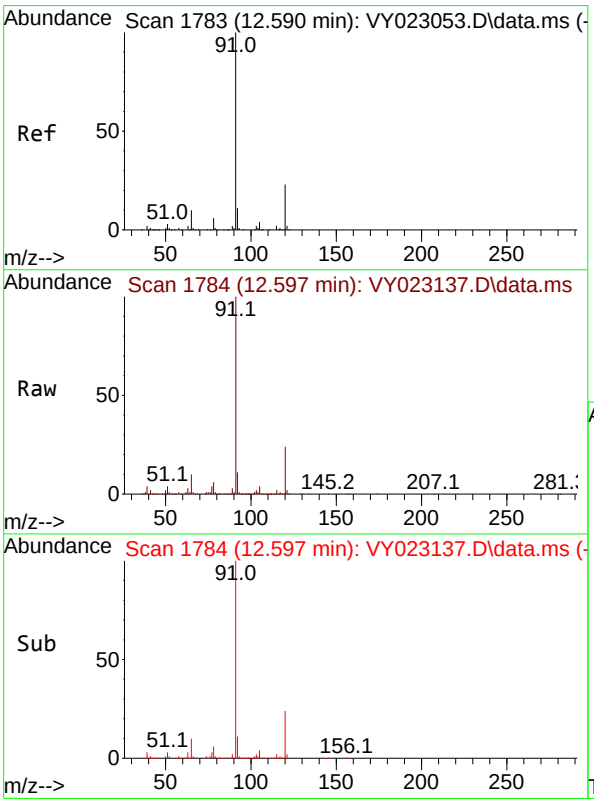
#77
Bromobenzene
Concen: 50.968 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 336874

Ion	Ratio	Lower	Upper
156	100		
77	170.5	88.1	264.4
158	97.2	48.0	144.0

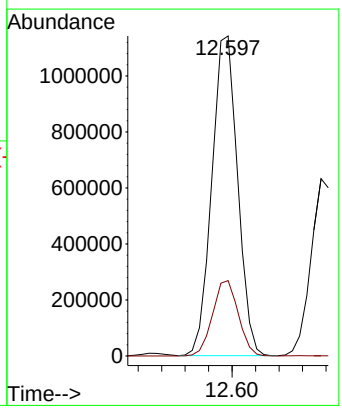


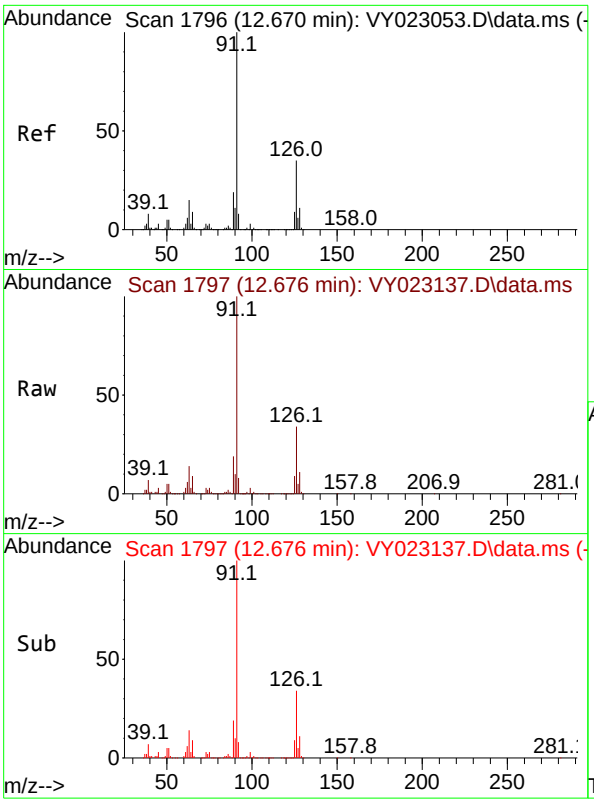


#78
n-propylbenzene
Concen: 52.806 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1741756

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5



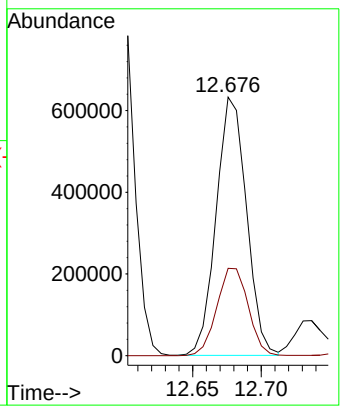


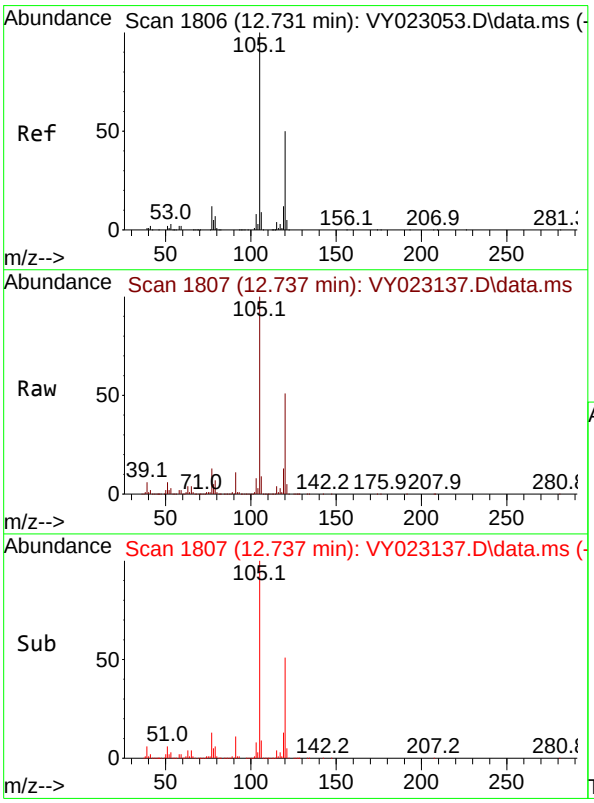
#79
2-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 975057

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3

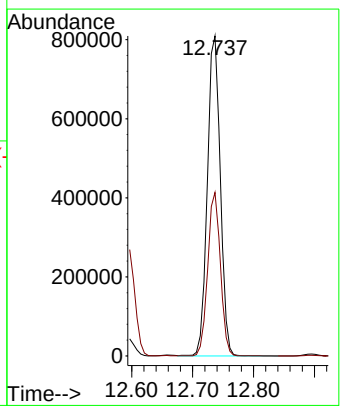


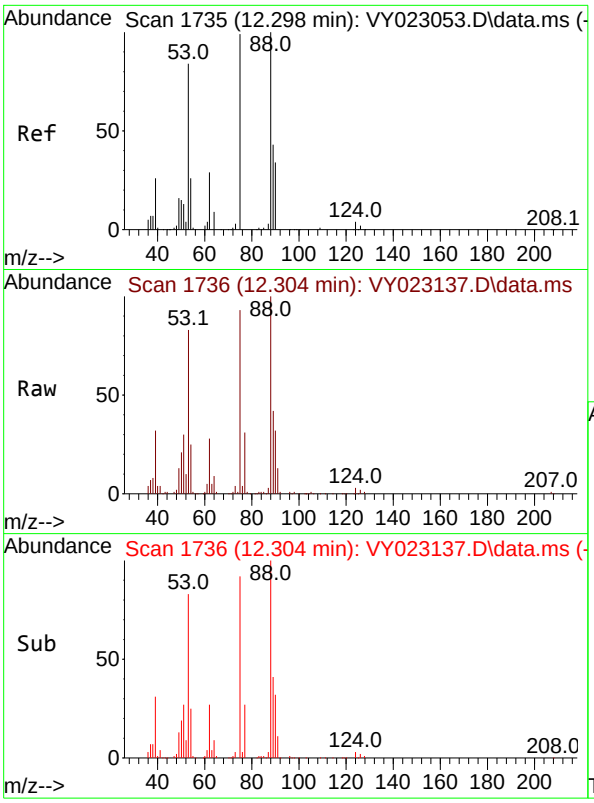


#80
1,3,5-Trimethylbenzene
Concen: 53.229 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191826

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4



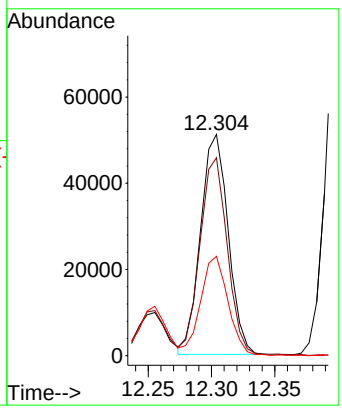


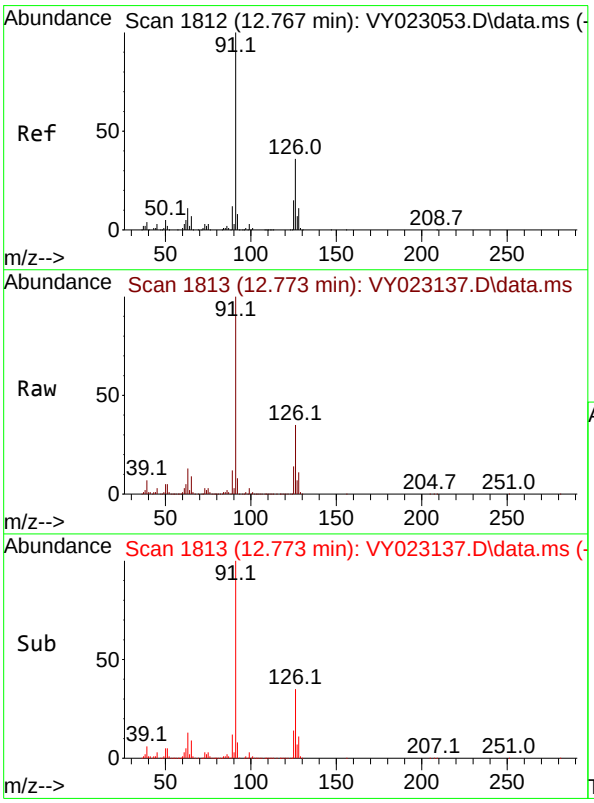
#81
trans-1,4-Dichloro-2-butene
Concen: 49.570 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 77577

Ion	Ratio	Lower	Upper
75	100		
53	89.8	70.8	106.2
89	45.4	38.1	57.1

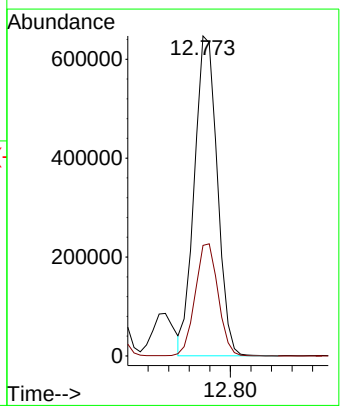


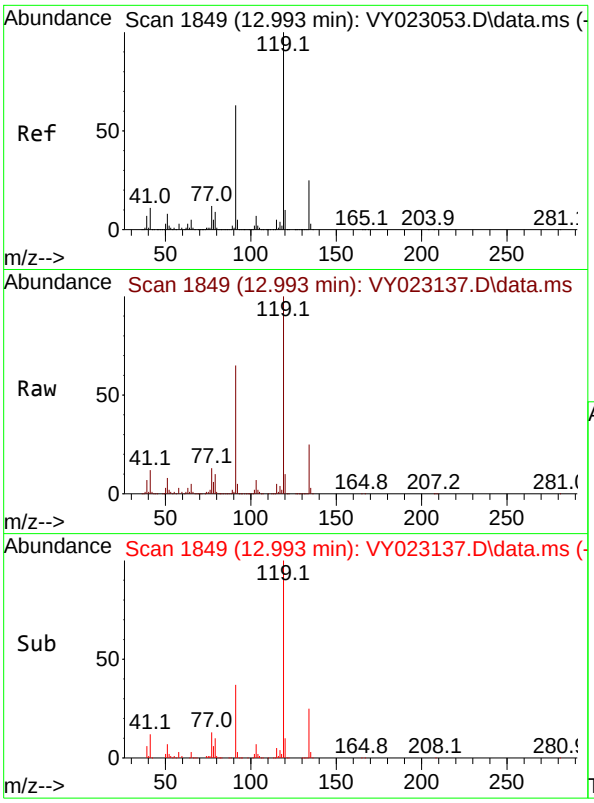


#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1000547

Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.3	52.0



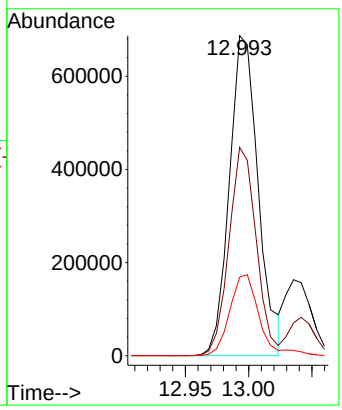


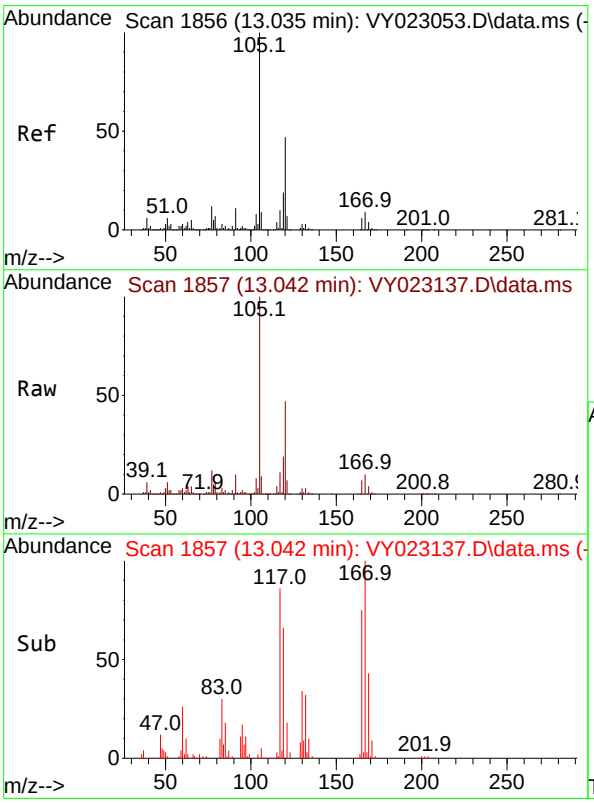
#83
tert-Butylbenzene
Concen: 53.956 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 1091125

Ion	Ratio	Lower	Upper
119	100		
91	61.6	31.6	94.8
134	25.9	12.9	38.7

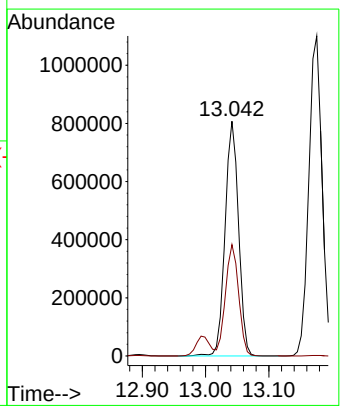


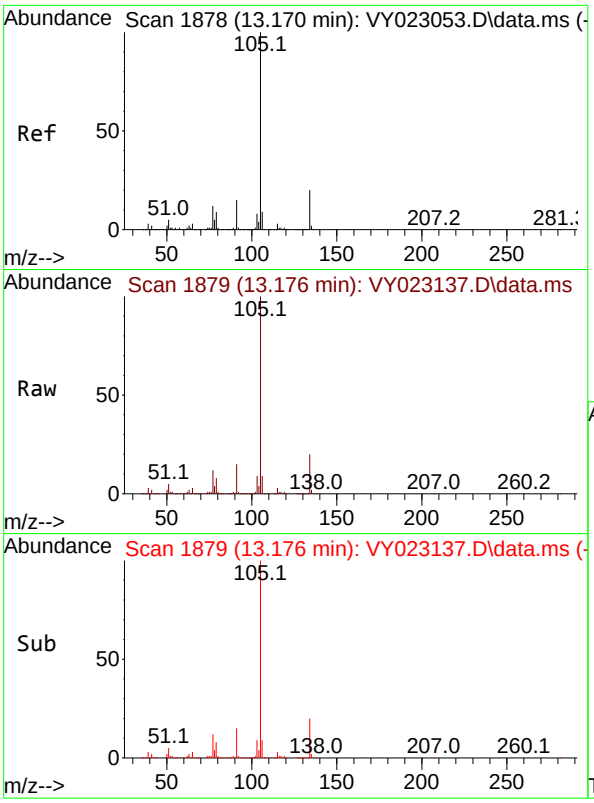


#84
1,2,4-Trimethylbenzene
Concen: 53.459 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191535

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



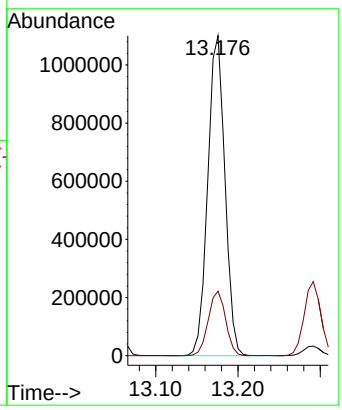


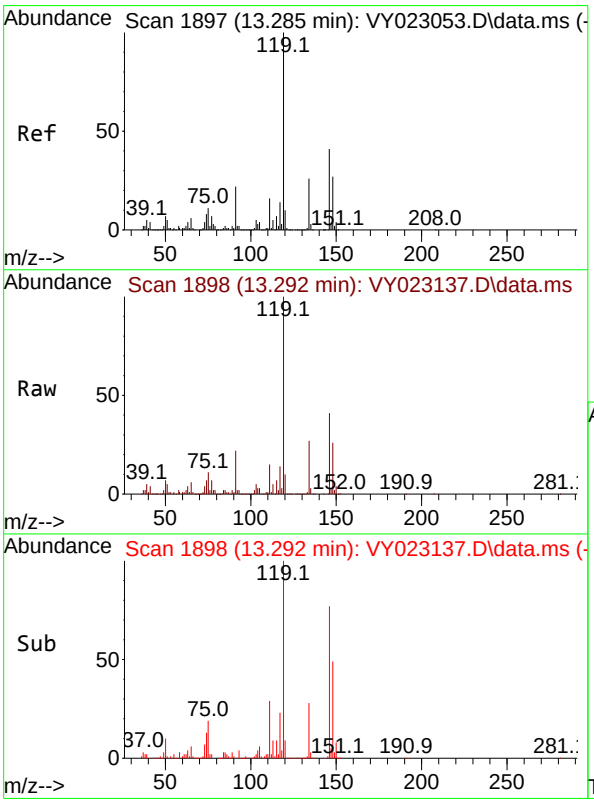
#85
sec-Butylbenzene
Concen: 53.673 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1594423

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

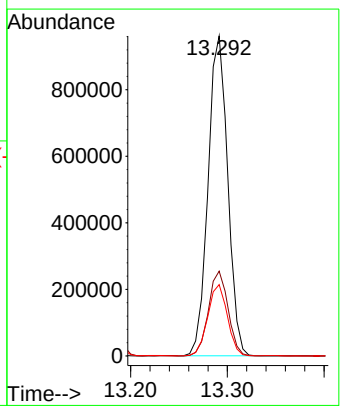


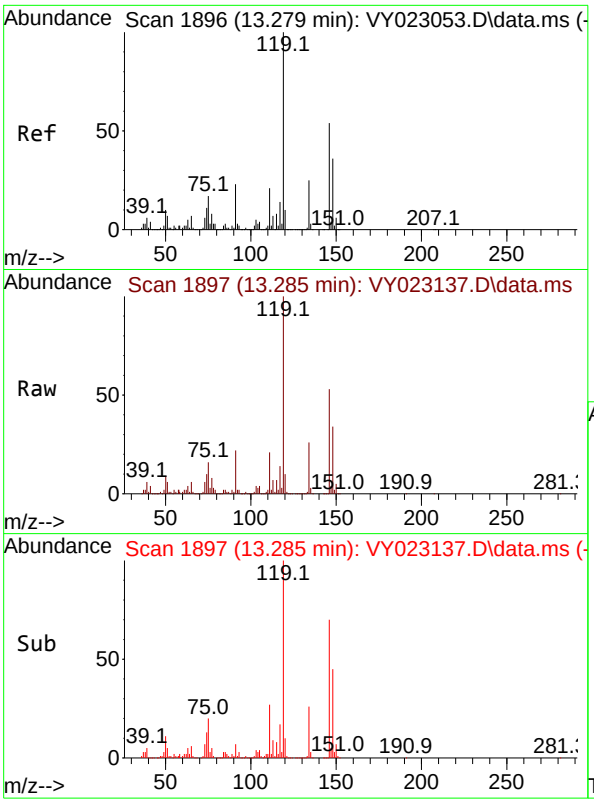


#86
p-Isopropyltoluene
Concen: 55.063 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:119 Resp: 1357746

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.6
91	22.2	11.3	33.8



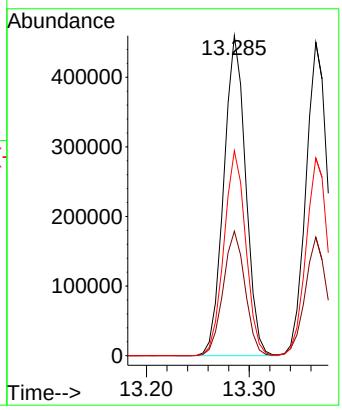


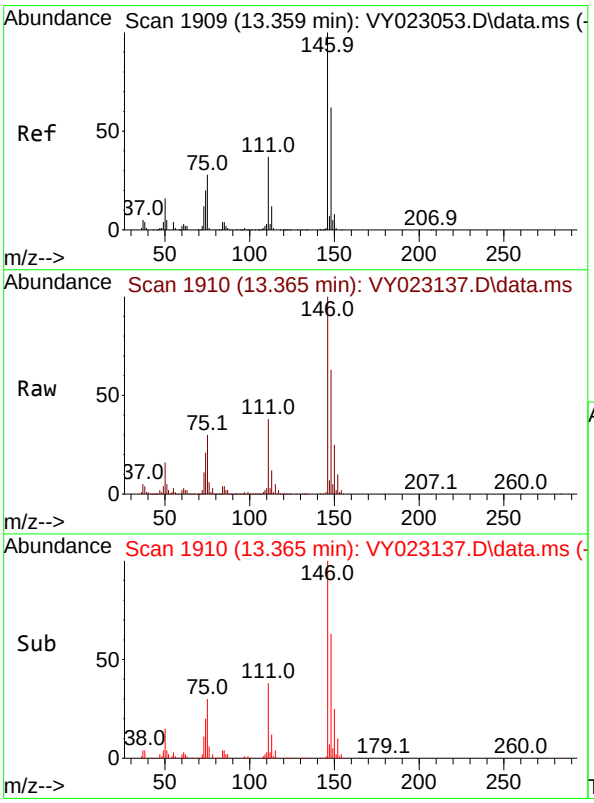
#87
1,3-Dichlorobenzene
Concen: 52.231 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 680781

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.6	58.7
148	63.7	32.5	97.5

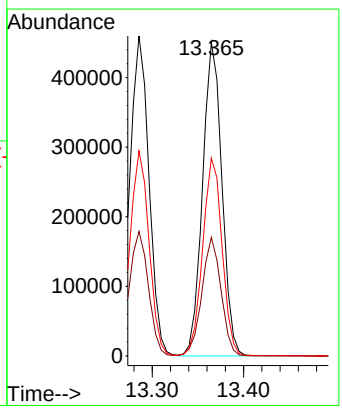


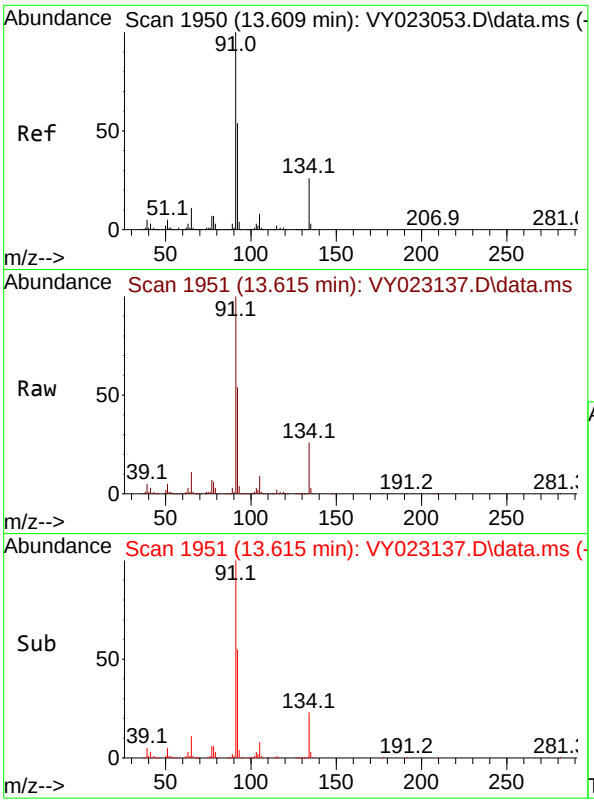


#88
1,4-Dichlorobenzene
Concen: 51.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 663039

Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.1
148	63.4	31.6	94.7



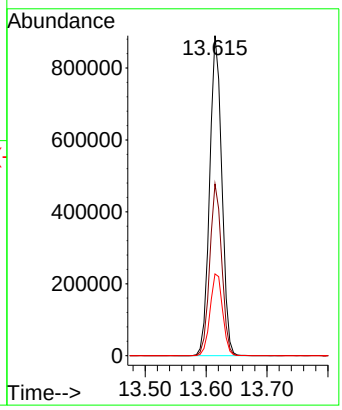


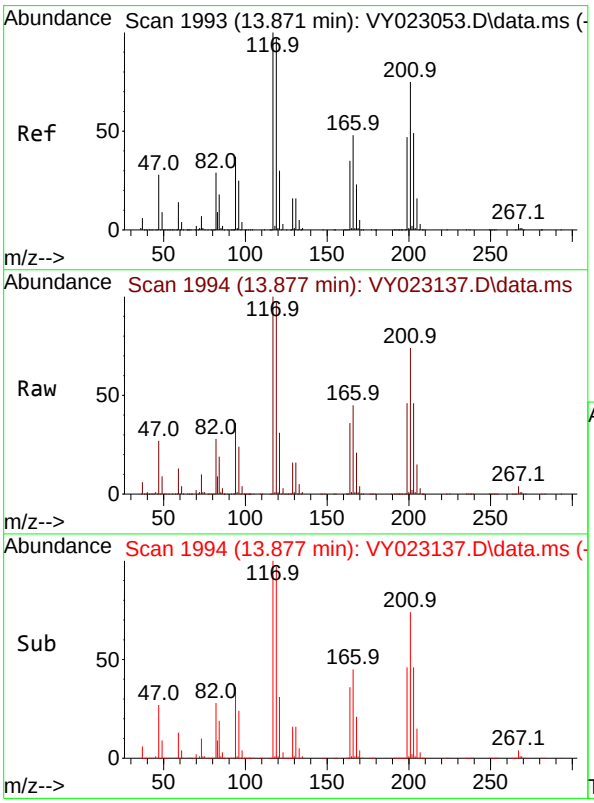
#89
n-Butylbenzene
Concen: 54.384 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1231645

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	26.4	13.2	39.5

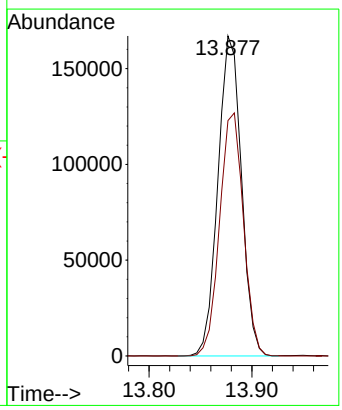


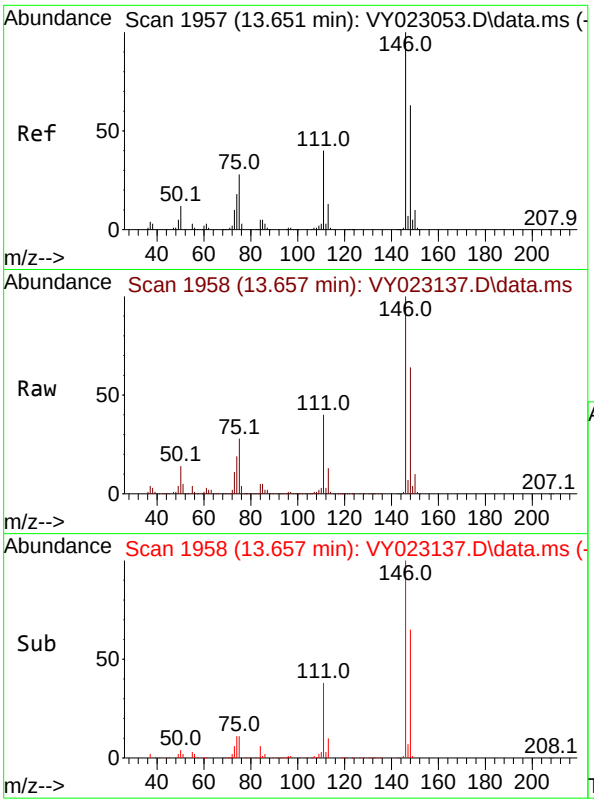


#90
Hexachloroethane
Concen: 52.354 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 264268

Ion	Ratio	Lower	Upper
117	100		
201	77.1	38.4	115.1



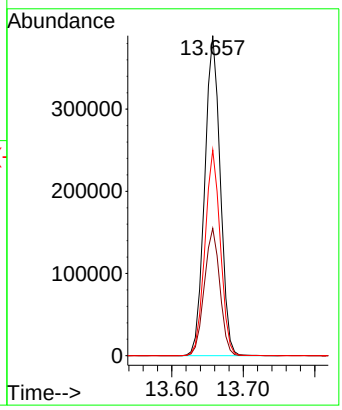


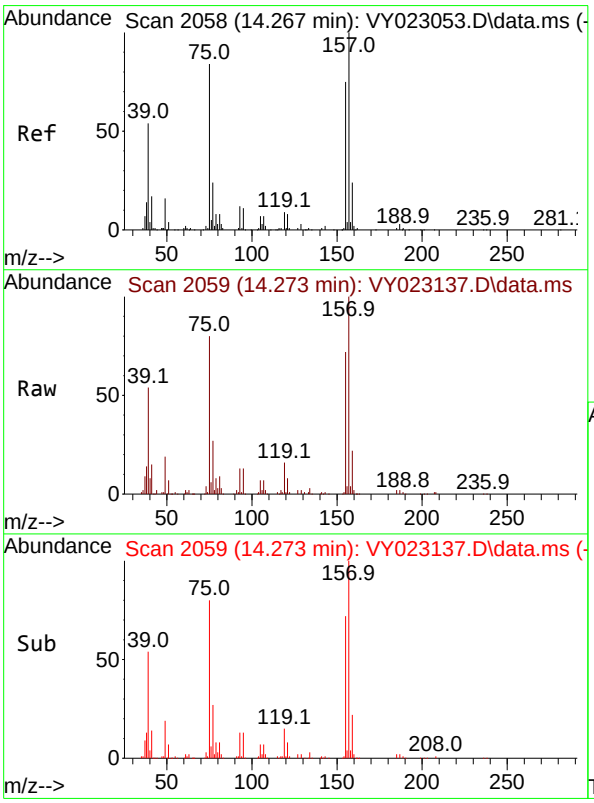
#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 588570

Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.3	60.8
148	63.3	32.2	96.6

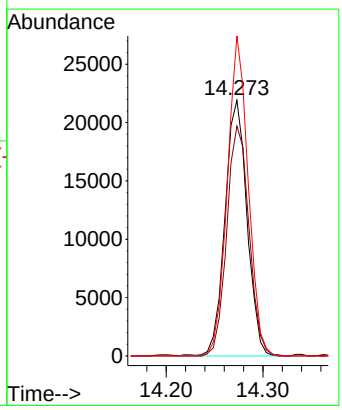


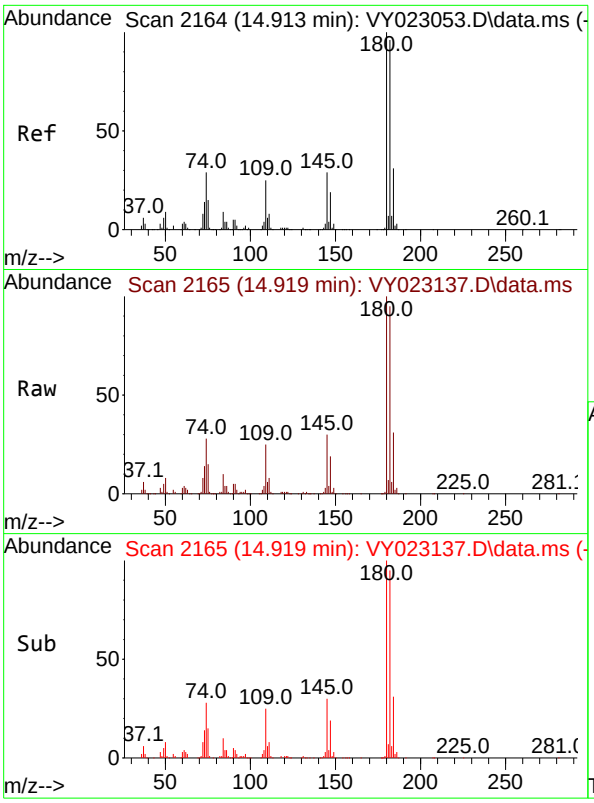


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.081 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 34676

Ion	Ratio	Lower	Upper
75	100		
155	90.7	43.9	131.6
157	118.4	57.2	171.6



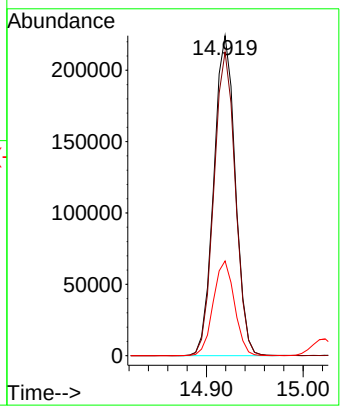


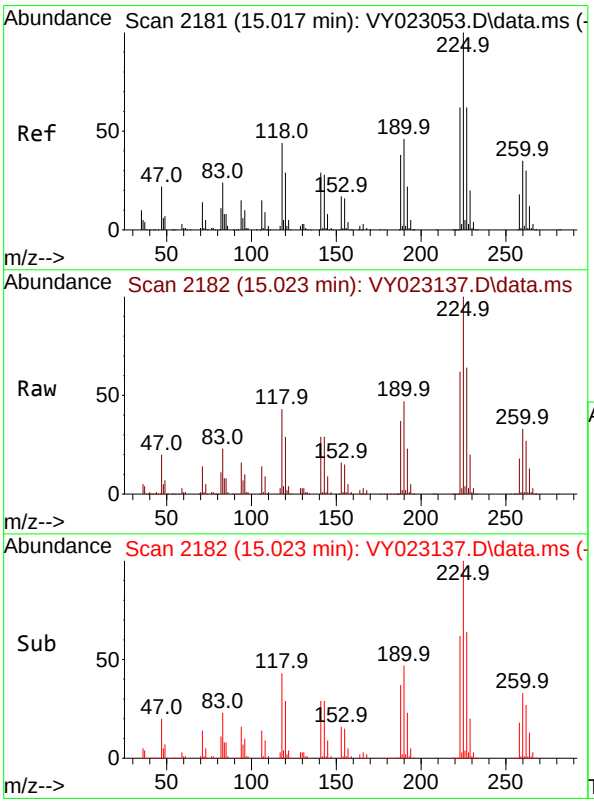
#93
1,2,4-Trichlorobenzene
Concen: 51.158 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 345818

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.8	140.4
145	29.3	14.4	43.4

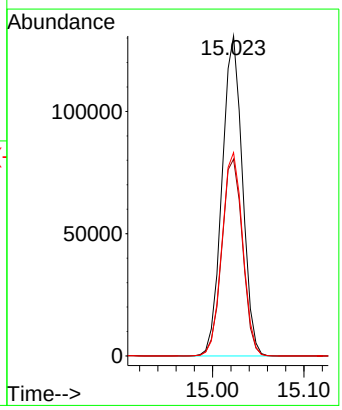


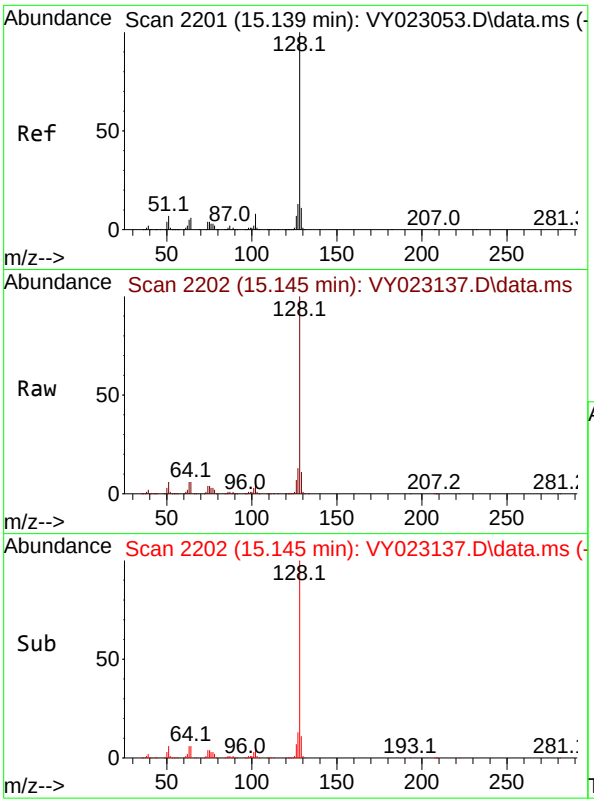


#94
Hexachlorobutadiene
Concen: 50.885 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:225 Resp: 202124

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.3	93.8
227	64.8	31.5	94.5



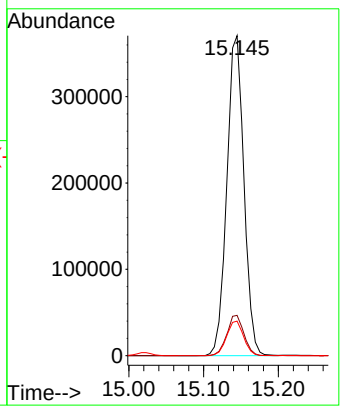


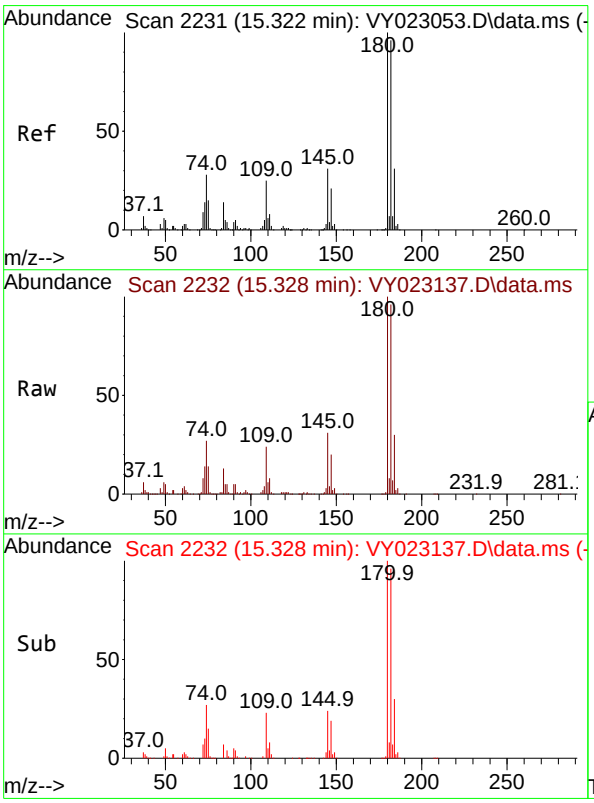
#95
Naphthalene
Concen: 51.208 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 590257

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	10.9	9.0	13.4

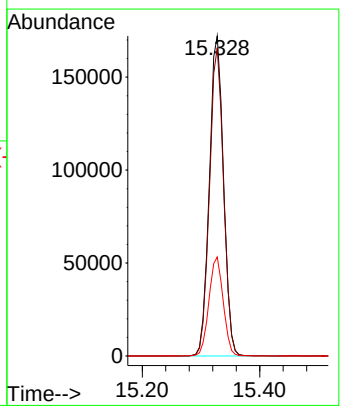




#96
1,2,3-Trichlorobenzene
Concen: 49.517 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:180 Resp: 288433

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.7
145	31.1	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	517532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	816918	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	707204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	352720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	233623	47.365	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.720%			
35) Dibromofluoromethane	7.634	113	237406	48.567	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.140%			
50) Toluene-d8	10.109	98	947313	49.608	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.220%			
62) 4-Bromofluorobenzene	12.401	95	298119	48.544	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	87281	20.661	ug/l	100
3) Chloromethane	2.074	50	138015	20.171	ug/l	100
4) Vinyl Chloride	2.208	62	173827	20.552	ug/l	99
5) Bromomethane	2.592	94	146241	23.152	ug/l	98
6) Chloroethane	2.738	64	116717	20.757	ug/l	99
7) Trichlorofluoromethane	3.055	101	205259	19.958	ug/l	98
8) Diethyl Ether	3.458	74	54043	19.862	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.817	101	109139	21.510	ug/l	99
10) Methyl Iodide	4.006	142	105447	19.260	ug/l	99
11) Tert butyl alcohol	4.860	59	29364	86.885	ug/l	100
12) 1,1-Dichloroethene	3.793	96	103754	20.804	ug/l	91
13) Acrolein	3.653	56	35491	71.706	ug/l	96
14) Allyl chloride	4.384	41	138299	18.846	ug/l	96
15) Acrylonitrile	5.055	53	104521	94.488	ug/l	98
16) Acetone	3.872	43	120414	112.685	ug/l	98
17) Carbon Disulfide	4.104	76	323680	19.905	ug/l	99
18) Methyl Acetate	4.384	43	55412	17.426	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	254848	19.720	ug/l	97
20) Methylene Chloride	4.616	84	114203	18.875	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	117658	20.993	ug/l	96
22) Diisopropyl ether	6.018	45	314582	19.728	ug/l	95
23) Vinyl Acetate	5.963	43	837107	94.938	ug/l	97
24) 1,1-Dichloroethane	5.921	63	194782	19.979	ug/l	100
25) 2-Butanone	6.890	43	146563	100.847	ug/l	99
26) 2,2-Dichloropropane	6.890	77	179625	21.352	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	133354	20.582	ug/l	97
28) Bromochloromethane	7.244	49	75324	19.474	ug/l	96
29) Tetrahydrofuran	7.262	42	81427	90.389	ug/l	98
30) Chloroform	7.426	83	208029	20.690	ug/l	100
31) Cyclohexane	7.701	56	180441	19.640	ug/l	94
32) 1,1,1-Trichloroethane	7.615	97	185862	20.833	ug/l	99
36) 1,1-Dichloropropene	7.835	75	149696	20.606	ug/l	99
37) Ethyl Acetate	6.981	43	56943	18.660	ug/l	98
38) Carbon Tetrachloride	7.817	117	169089	21.430	ug/l	99
39) Methylcyclohexane	9.109	83	199011	20.803	ug/l	99
40) Benzene	8.079	78	471421	21.055	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.219	41	27802	15.786 ug/l #	85
42) 1,2-Dichloroethane	8.158	62	117552	20.187 ug/l	100
43) Isopropyl Acetate	8.195	43	113681	18.431 ug/l	99
44) Trichloroethene	8.865	130	122590	21.187 ug/l	98
45) 1,2-Dichloropropane	9.140	63	105641	20.506 ug/l	99
46) Dibromomethane	9.231	93	62014	20.972 ug/l	97
47) Bromodichloromethane	9.420	83	157692	20.725 ug/l	98
48) Methyl methacrylate	9.219	41	54599	18.499 ug/l	93
49) 1,4-Dioxane	9.231	88	13295	383.459 ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	298177	93.721 ug/l	99
52) Toluene	10.170	92	299030	21.028 ug/l	99
53) t-1,3-Dichloropropene	10.395	75	138793	20.144 ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	166637	20.453 ug/l	98
55) 1,1,2-Trichloroethane	10.572	97	80520	20.350 ug/l	95
56) Ethyl methacrylate	10.438	69	94888	18.741 ug/l	99
57) 1,3-Dichloropropane	10.718	76	138195	20.594 ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	226098	94.672 ug/l	98
59) 2-Hexanone	10.761	43	214547	99.034 ug/l	100
60) Dibromochloromethane	10.907	129	107311	20.554 ug/l	100
61) 1,2-Dibromoethane	11.017	107	75418	20.280 ug/l	100
64) Tetrachloroethene	10.645	164	129655	20.532 ug/l	99
65) Chlorobenzene	11.438	112	325629	21.346 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.517	131	109752	21.199 ug/l	98
67) Ethyl Benzene	11.517	91	545176	20.767 ug/l	98
68) m/p-Xylenes	11.627	106	430120	41.951 ug/l	100
69) o-Xylene	11.956	106	201847	21.020 ug/l	100
70) Styrene	11.968	104	330216	21.028 ug/l	99
71) Bromoform	12.127	173	62105	20.525 ug/l #	99
73) Isopropylbenzene	12.255	105	527385	21.185 ug/l	99
74) N-amyl acetate	12.066	43	98366	18.632 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	87962	20.694 ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	112742	33.119 ug/l #	100
77) Bromobenzene	12.529	156	122298	20.592 ug/l	99
78) n-propylbenzene	12.596	91	629976	21.255 ug/l	99
79) 2-Chlorotoluene	12.675	91	356441	20.990 ug/l	100
80) 1,3,5-Trimethylbenzene	12.736	105	422945	21.022 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	27897	19.838 ug/l	98
82) 4-Chlorotoluene	12.773	91	366476	20.803 ug/l	99
83) tert-Butylbenzene	12.992	119	383813	21.122 ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	426567	21.298 ug/l	99
85) sec-Butylbenzene	13.175	105	572911	21.463 ug/l	100
86) p-Isopropyltoluene	13.291	119	473600	21.375 ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	245224	20.938 ug/l	98
88) 1,4-Dichlorobenzene	13.364	146	241992	20.829 ug/l	99
89) n-Butylbenzene	13.614	91	427124	20.989 ug/l	99
90) Hexachloroethane	13.876	117	97949	21.595 ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	210816	20.524 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12905	19.499 ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	122439	20.157 ug/l	98
94) Hexachlorobutadiene	15.023	225	75487	21.149 ug/l	99
95) Naphthalene	15.145	128	198080	19.124 ug/l	99
96) 1,2,3-Trichlorobenzene	15.327	180	105286	20.115 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

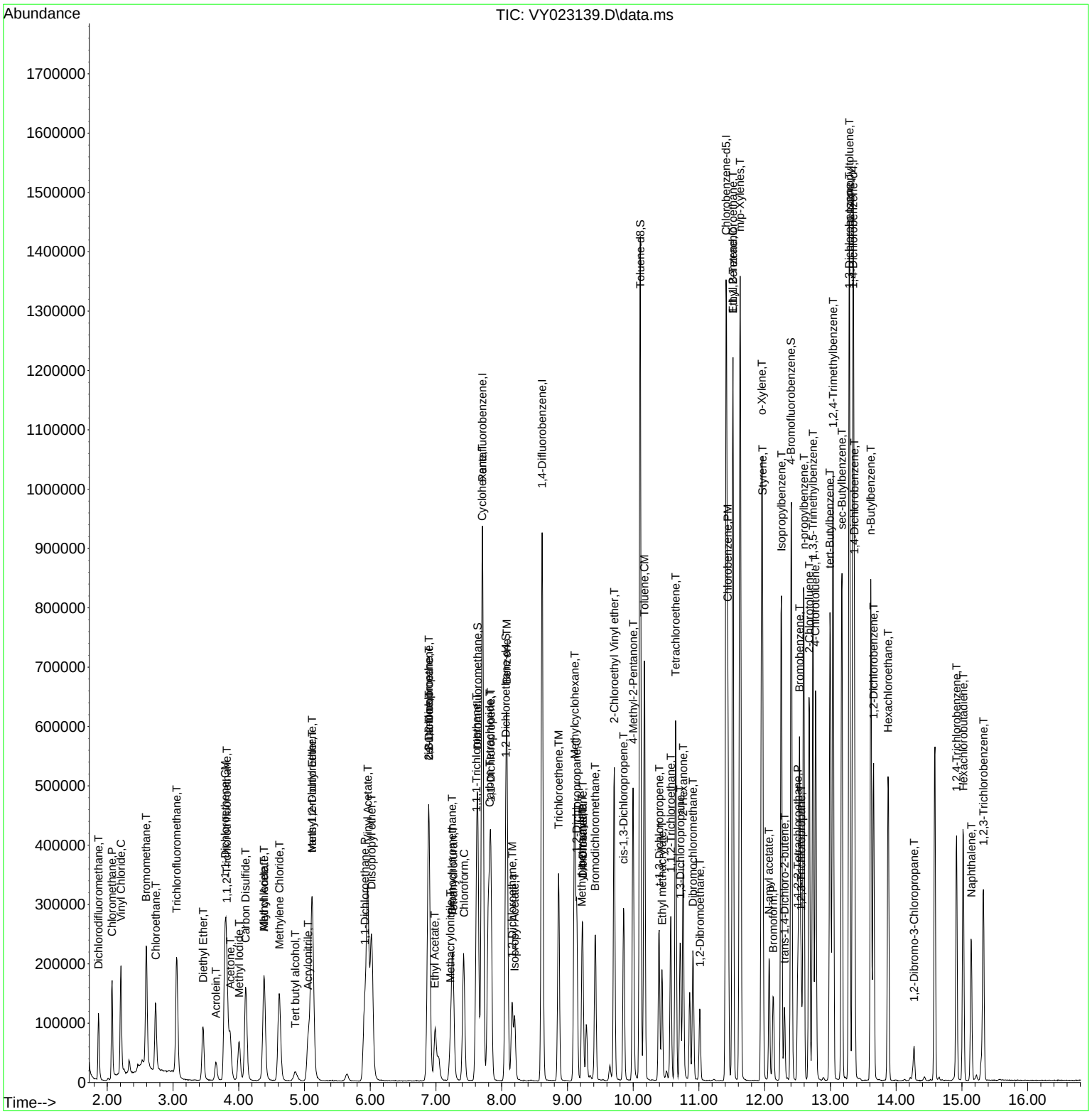
(#) = qualifier out of range (m) = manual integration (+) = signals summed

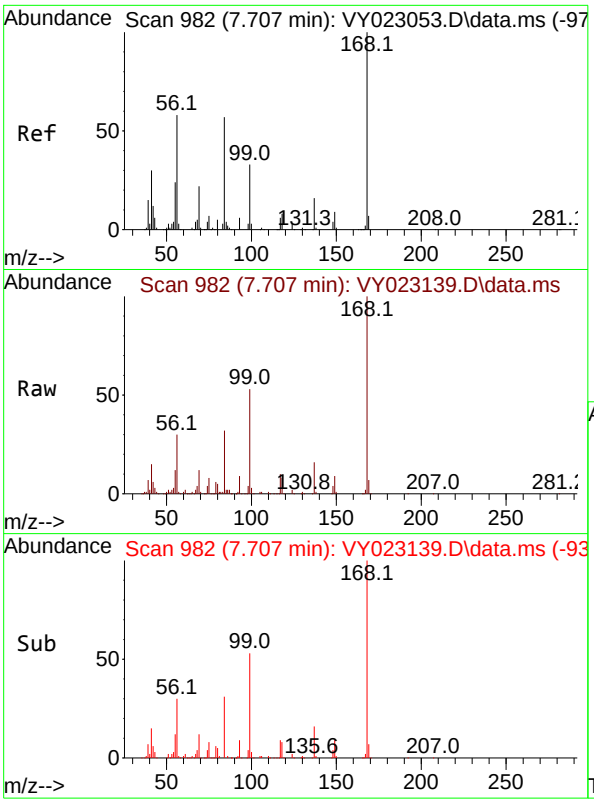
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



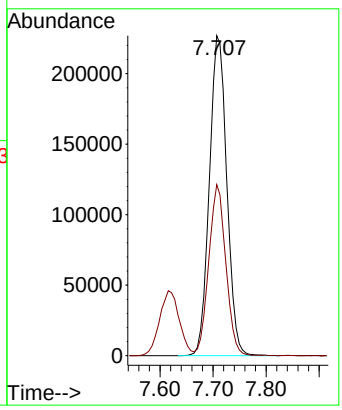


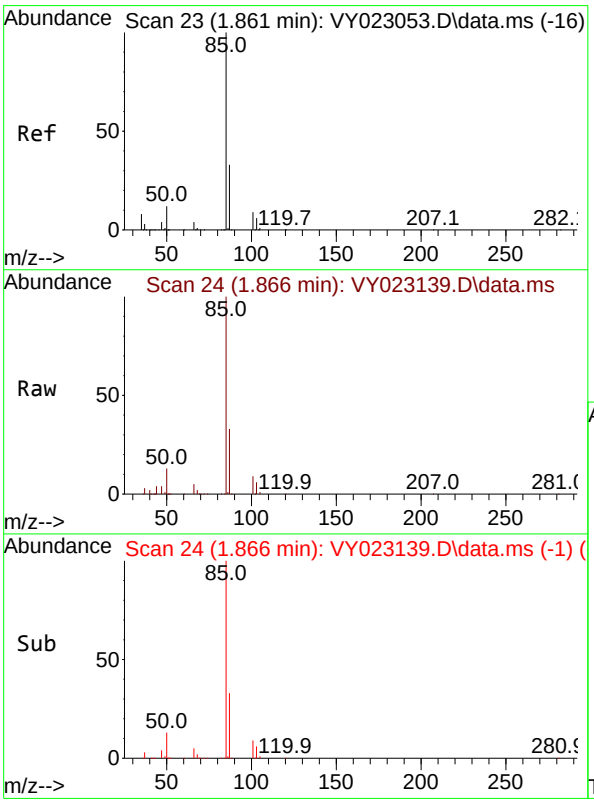
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:168 Resp: 517532

Ion	Ratio	Lower	Upper
168	100		
99	53.4	42.8	64.2

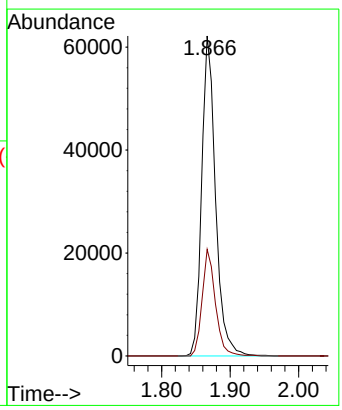


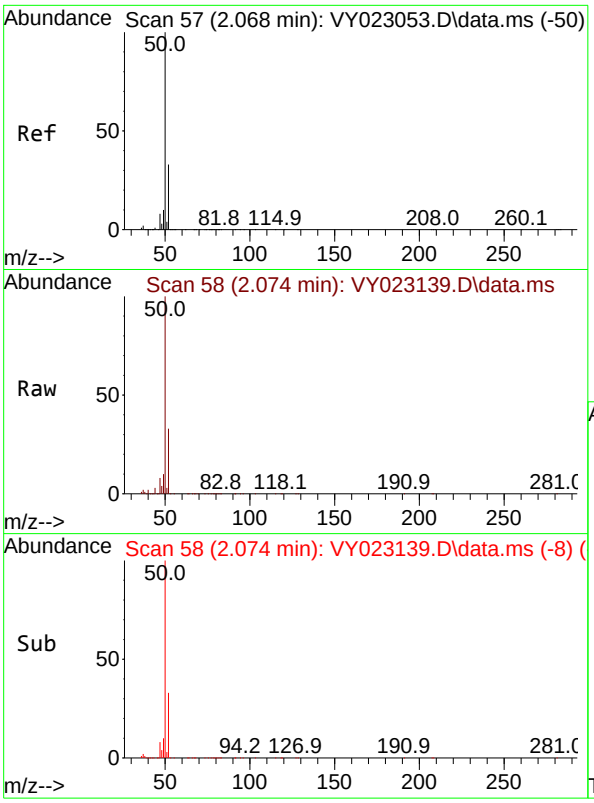


#2
Dichlorodifluoromethane
Concen: 20.661 ug/l
RT: 1.866 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 85 Resp: 87281

Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.6	49.8



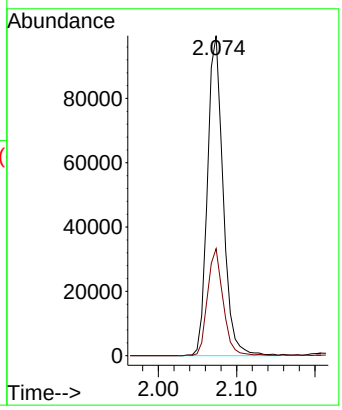


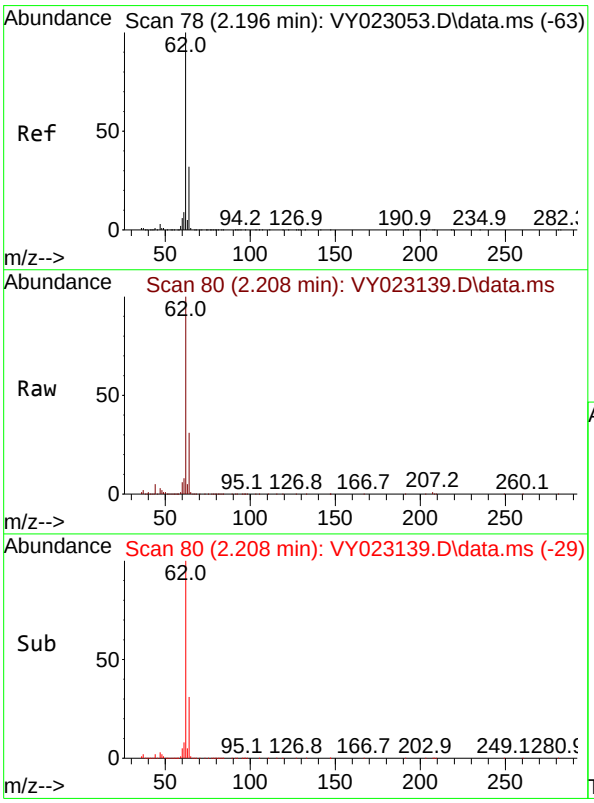
#3
Chloromethane
Concen: 20.171 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 50 Resp: 138015

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.7	40.1

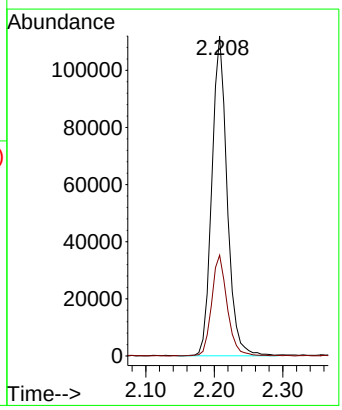


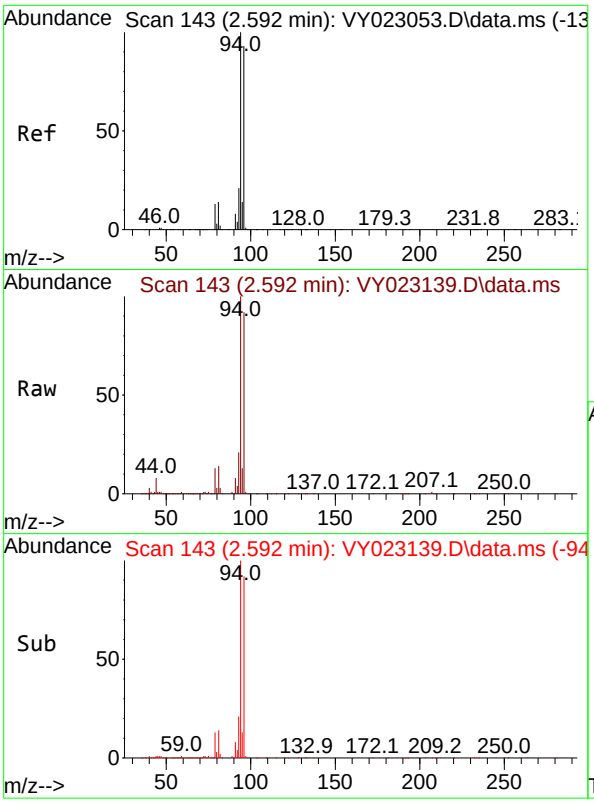


#4
Vinyl Chloride
Concen: 20.552 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 173827

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.4	38.0



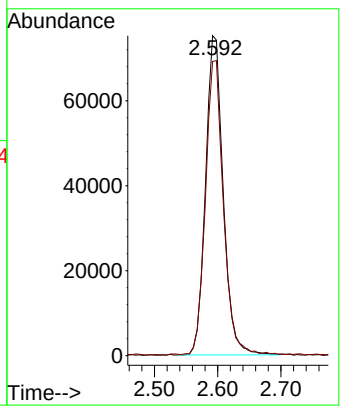


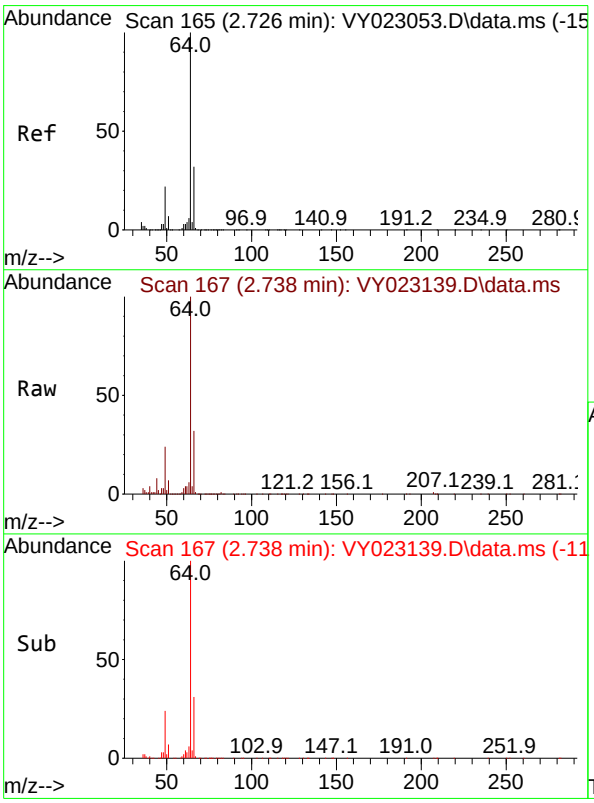
#5
Bromomethane
Concen: 23.152 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 94 Resp: 146241

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.6	112.0

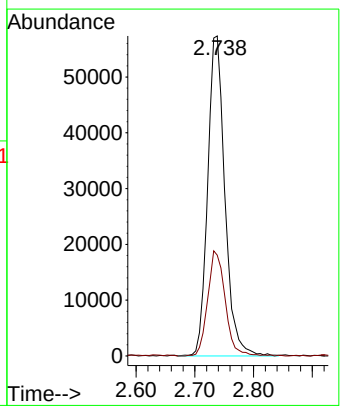


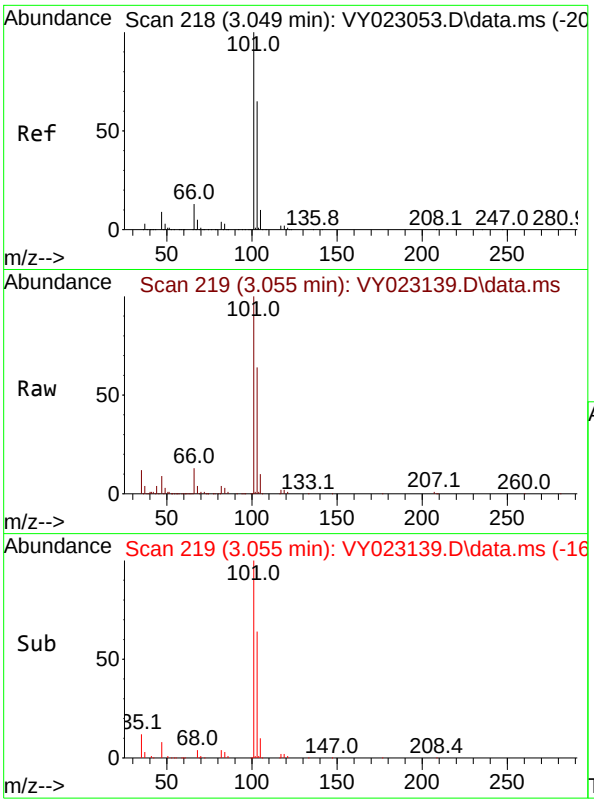


#6
Chloroethane
Concen: 20.757 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 64 Resp: 116717

Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.8	38.6



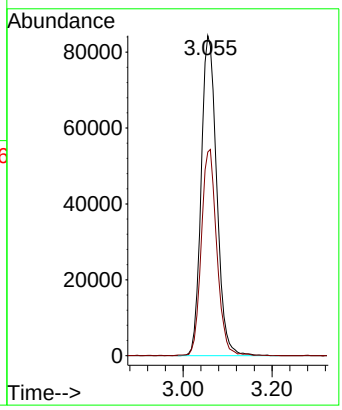


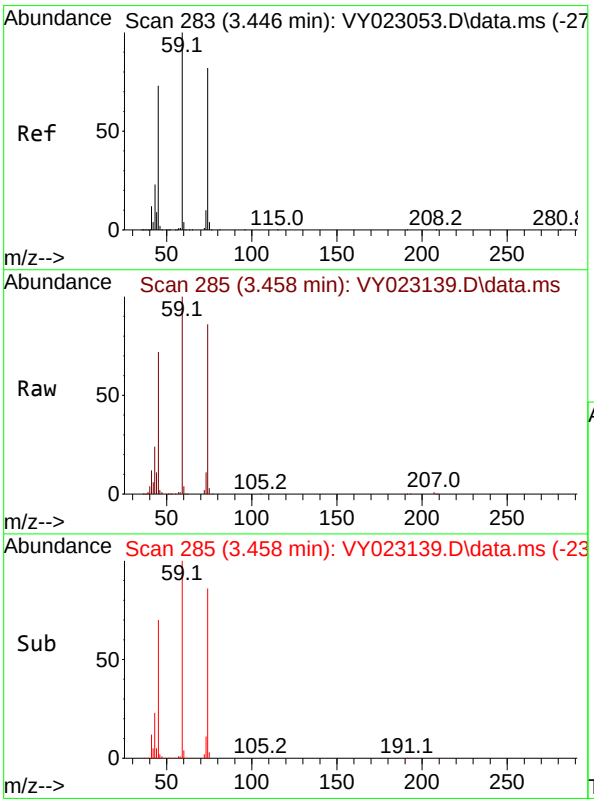
#7
Trichlorofluoromethane
Concen: 19.958 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:101 Resp: 205259

Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.9	77.9

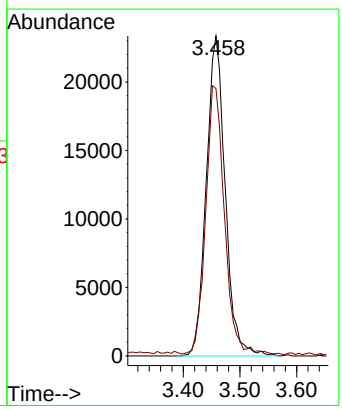


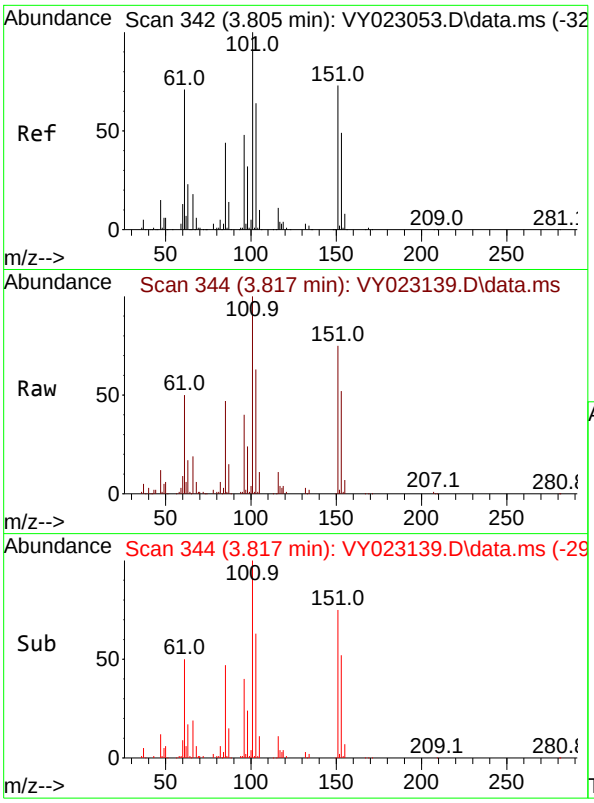


#8
Diethyl Ether
Concen: 19.862 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 74 Resp: 54043

Ion	Ratio	Lower	Upper
74	100		
45	83.3	44.4	133.2



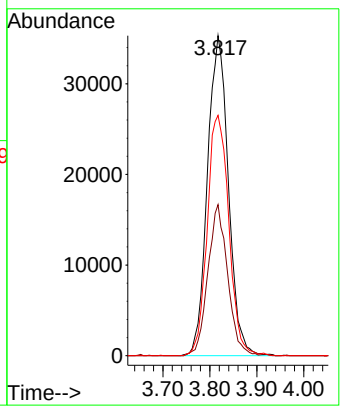


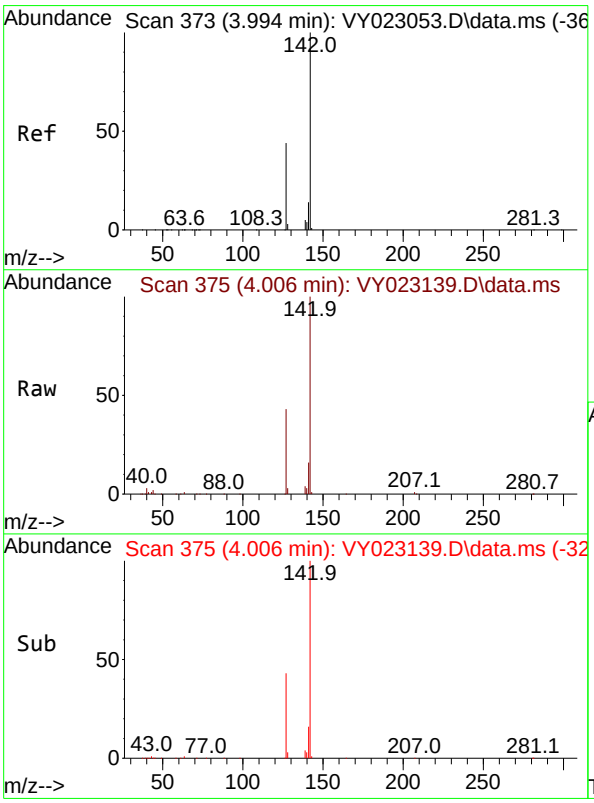
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.510 ug/l
RT: 3.817 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:101 Resp: 109139

Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.3	54.5
151	77.5	61.5	92.3

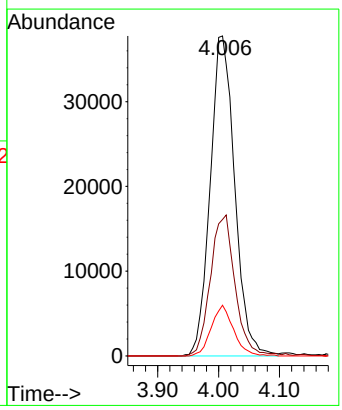


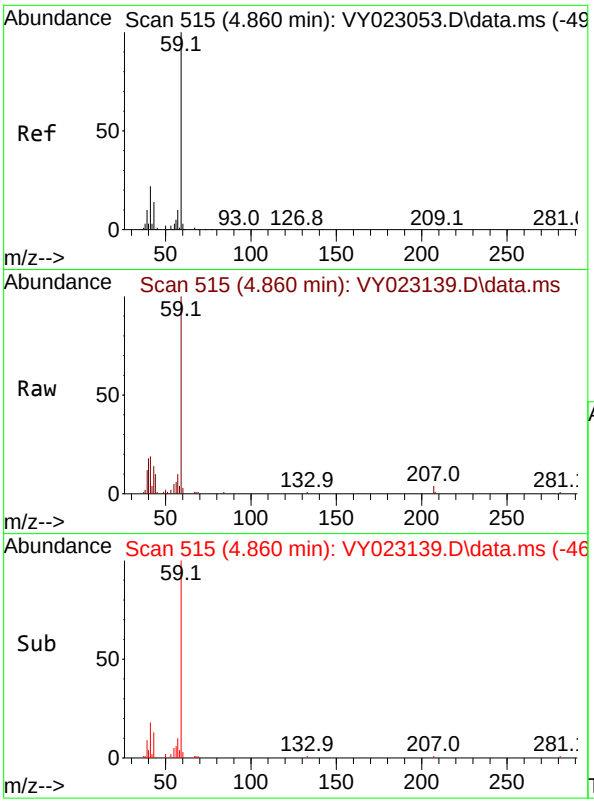


#10
Methyl Iodide
Concen: 19.260 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:142 Resp: 105447

Ion	Ratio	Lower	Upper
142	100		
127	44.5	34.9	52.3
141	14.5	11.3	16.9



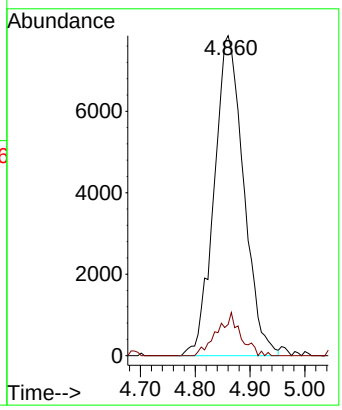


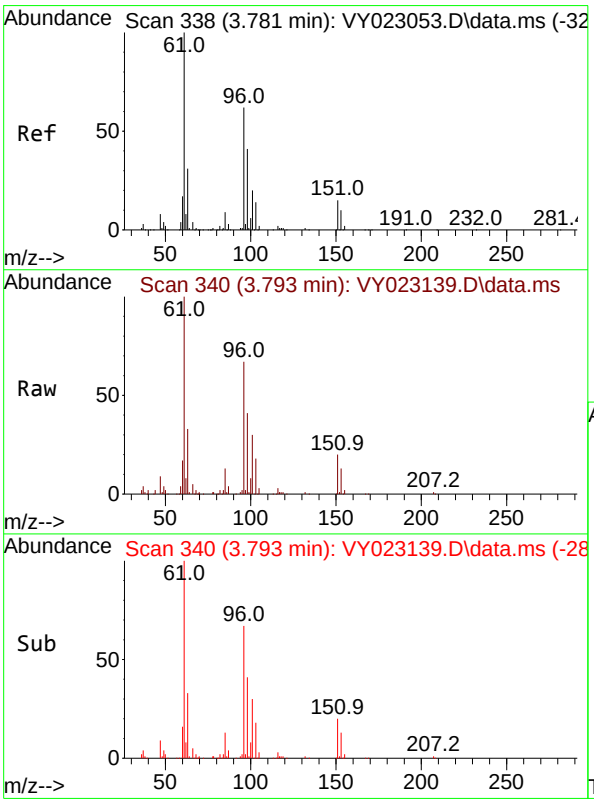
#11
Tert butyl alcohol
Concen: 86.885 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 59 Resp: 29364

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

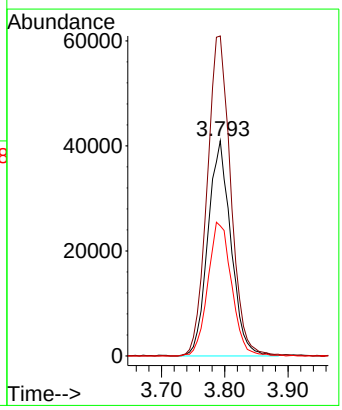


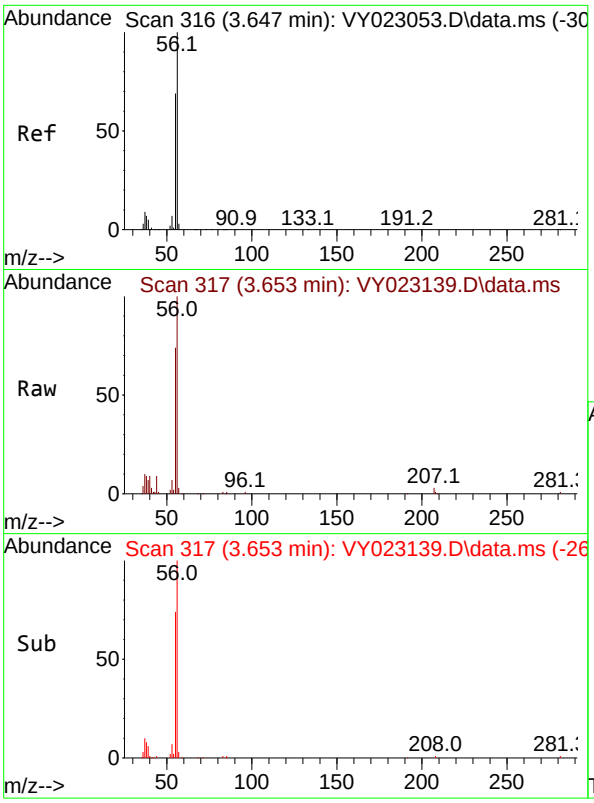


#12
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 103754

Ion	Ratio	Lower	Upper
96	100		
61	148.7	129.4	194.2
98	60.4	52.8	79.2



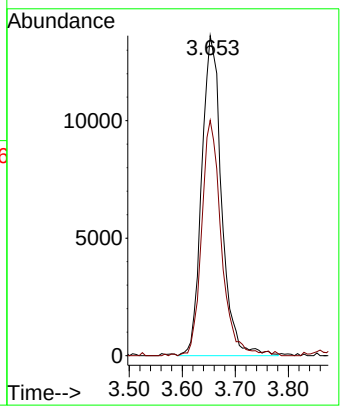


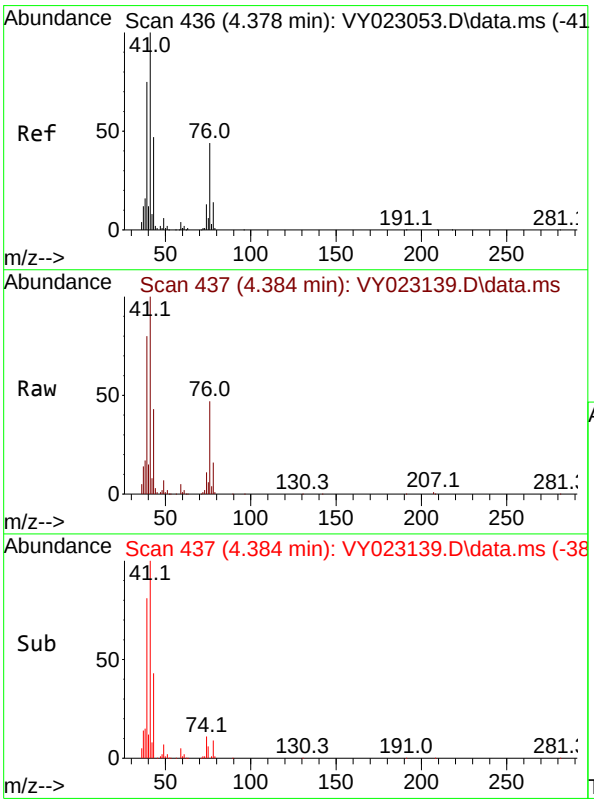
#13
Acrolein
Concen: 71.706 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 56 Resp: 35491

Ion	Ratio	Lower	Upper
56	100		
55	72.0	55.2	82.8

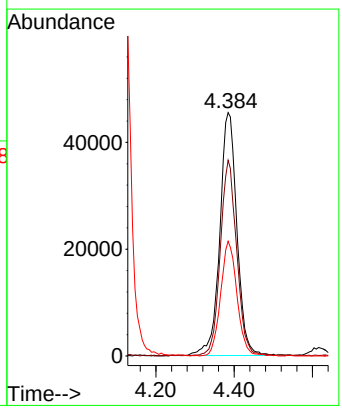


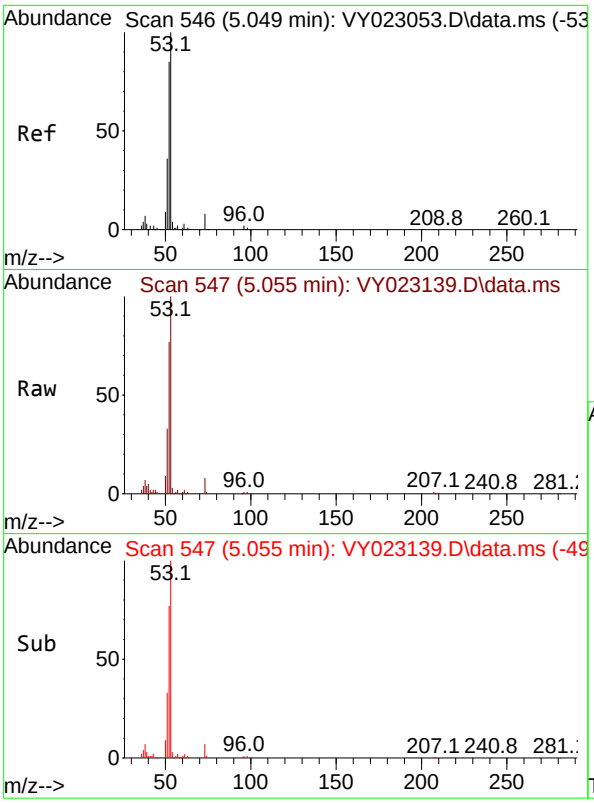


#14
Allyl chloride
Concen: 18.846 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 138299

Ion	Ratio	Lower	Upper
41	100		
39	77.1	59.8	89.6
76	45.1	33.7	50.5



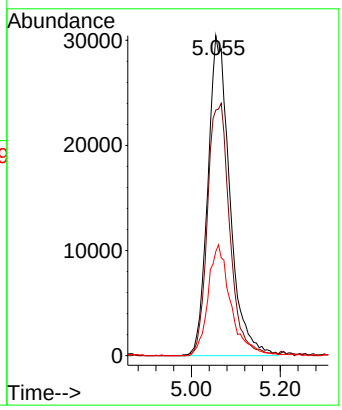


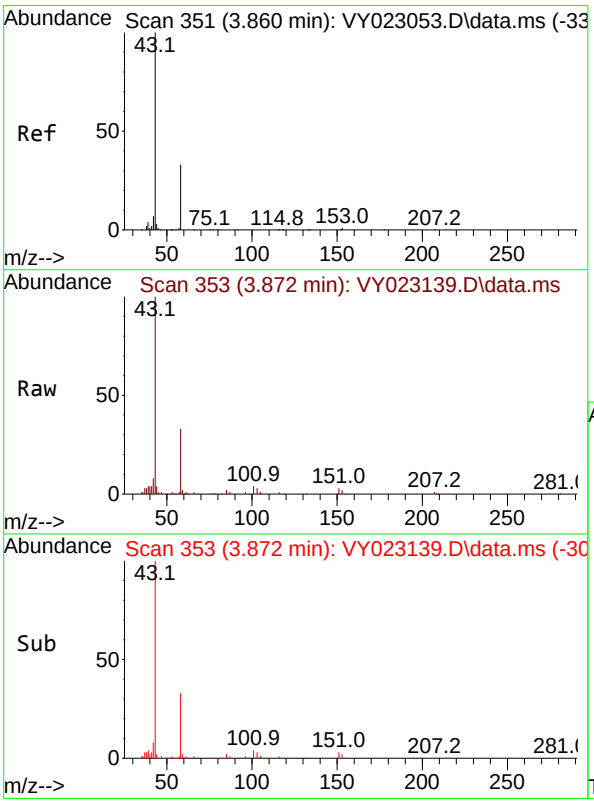
#15
Acrylonitrile
Concen: 94.488 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 53 Resp: 104521

Ion	Ratio	Lower	Upper
53	100		
52	79.8	65.3	97.9
51	35.9	29.5	44.3

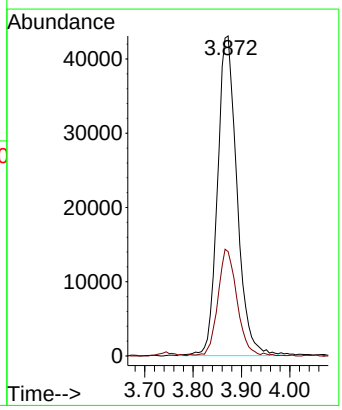


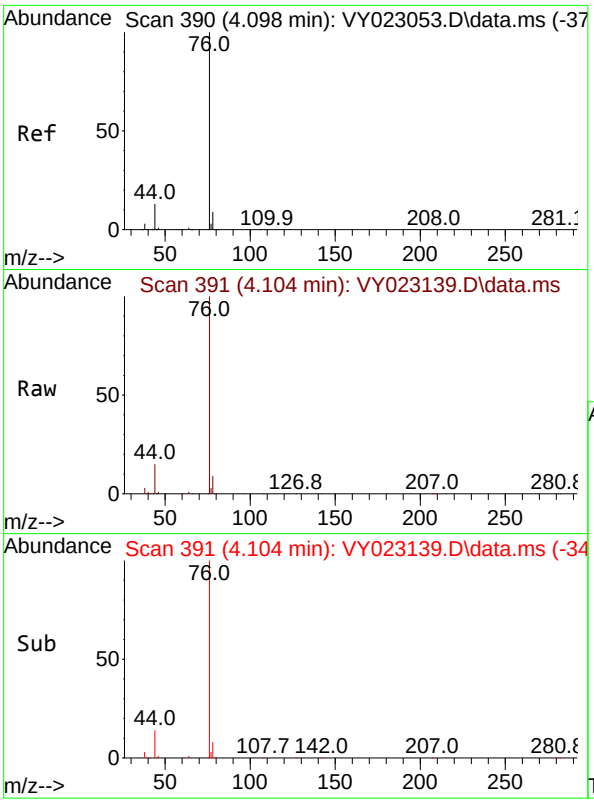


#16
Acetone
Concen: 112.685 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 120414

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7



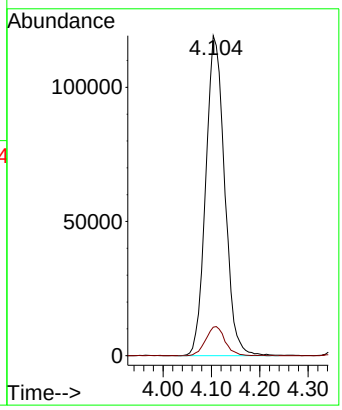


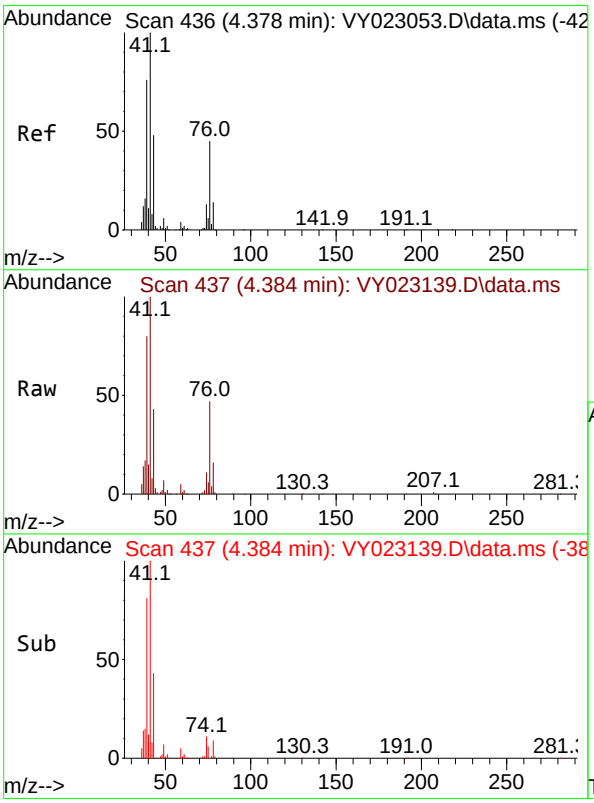
#17
Carbon Disulfide
Concen: 19.905 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 76 Resp: 323680

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

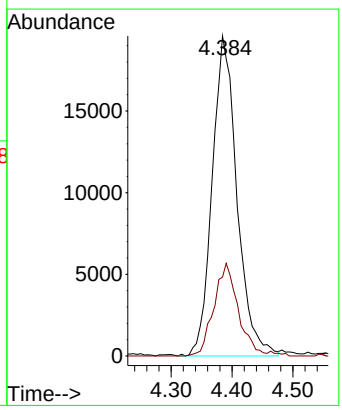


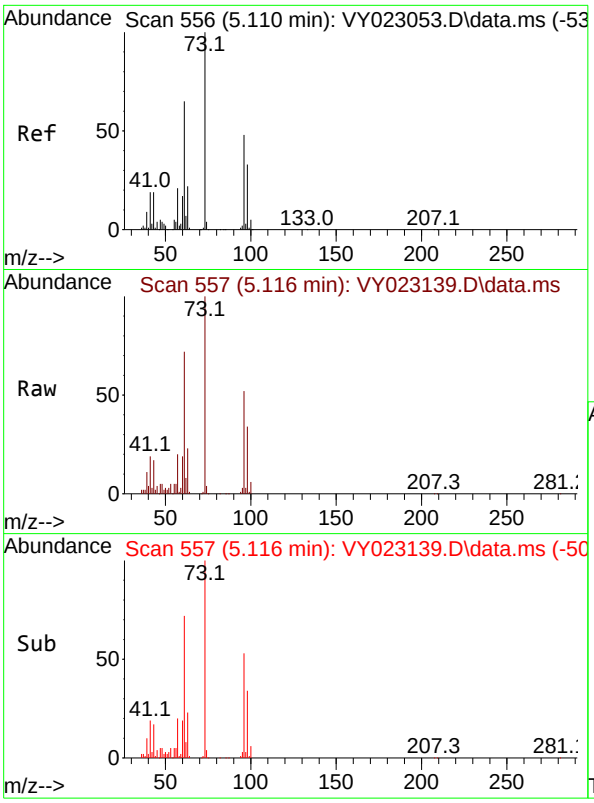


#18
Methyl Acetate
Concen: 17.426 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 55412

Ion	Ratio	Lower	Upper
43	100		
74	28.3	21.2	31.8



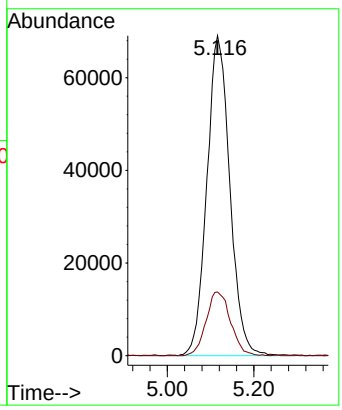


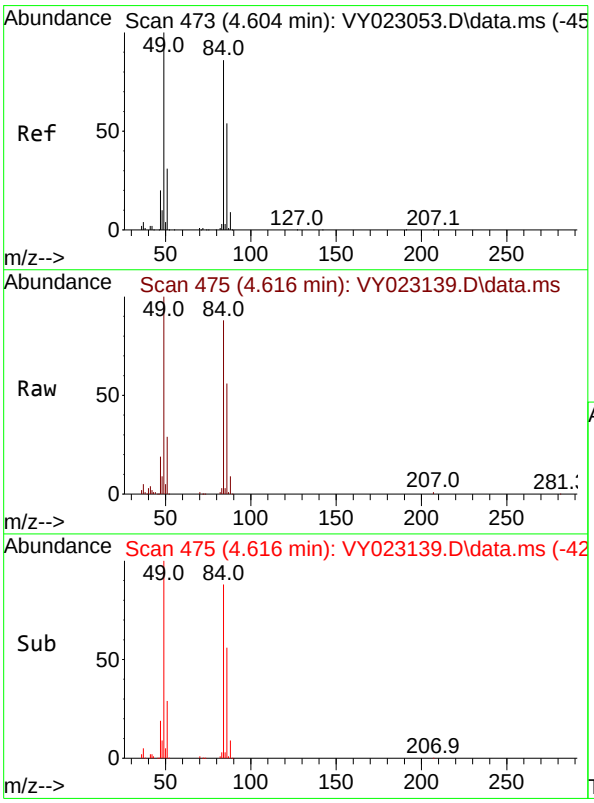
#19
Methyl tert-butyl Ether
Concen: 19.720 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 73 Resp: 254848

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.1	25.7

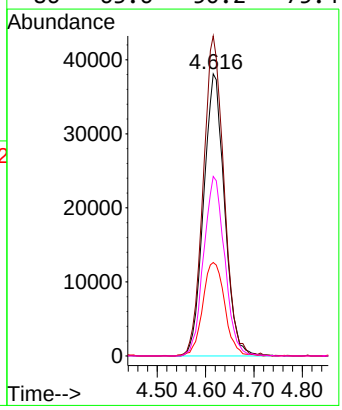


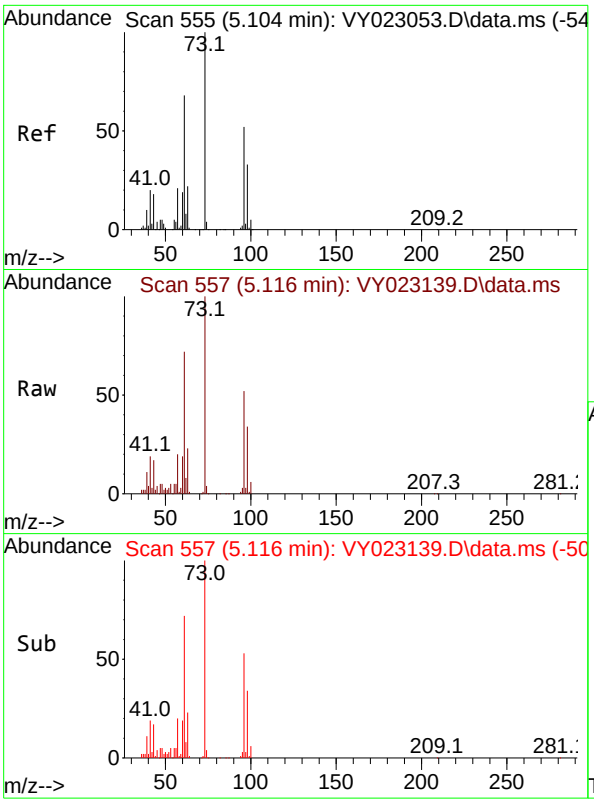


#20
Methylene Chloride
Concen: 18.875 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 84 Resp: 114203

Ion	Ratio	Lower	Upper
84	100		
49	113.2	93.0	139.6
51	33.1	29.0	43.4
86	63.6	50.2	75.4



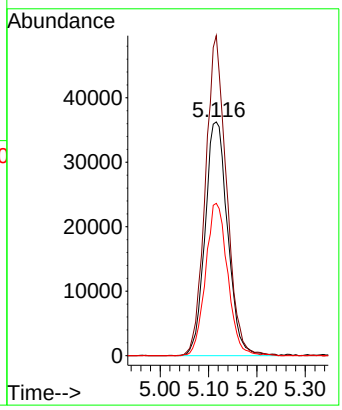


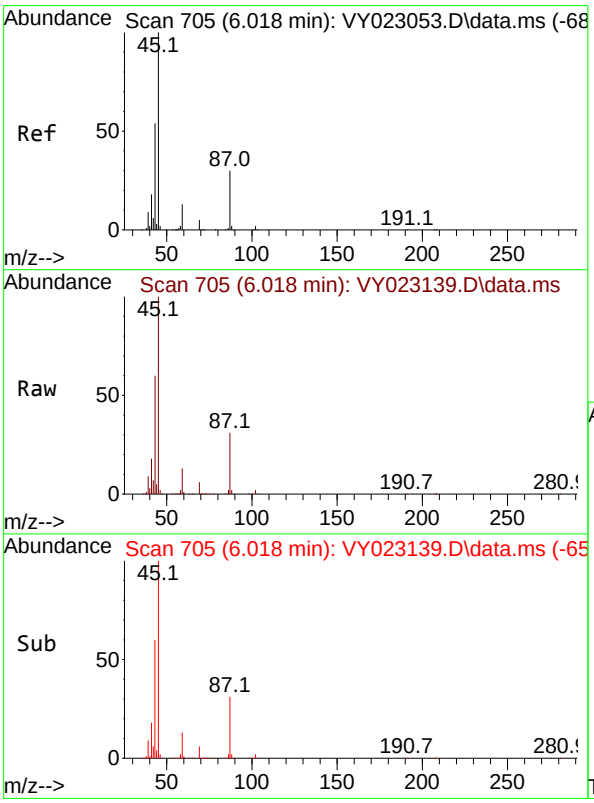
#21
trans-1,2-Dichloroethene
Concen: 20.993 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 96 Resp: 117658

Ion	Ratio	Lower	Upper
96	100		
61	136.8	104.8	157.2
98	65.2	50.1	75.1

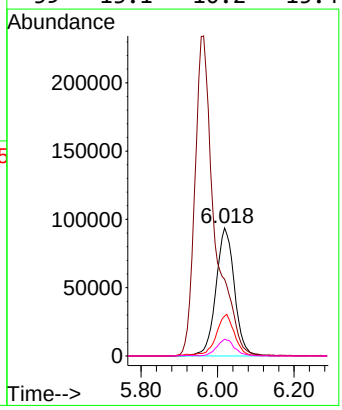


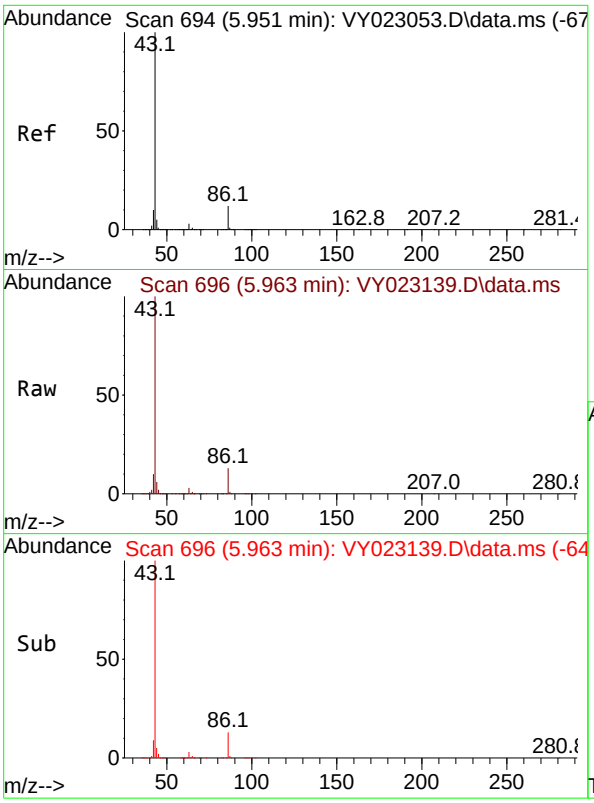


#22
Diisopropyl ether
Concen: 19.728 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 45 Resp: 314582

Ion	Ratio	Lower	Upper
45	100		
43	59.6	43.4	65.0
87	31.1	24.4	36.6
59	13.1	10.2	15.4



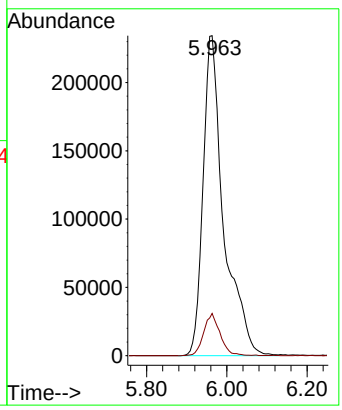


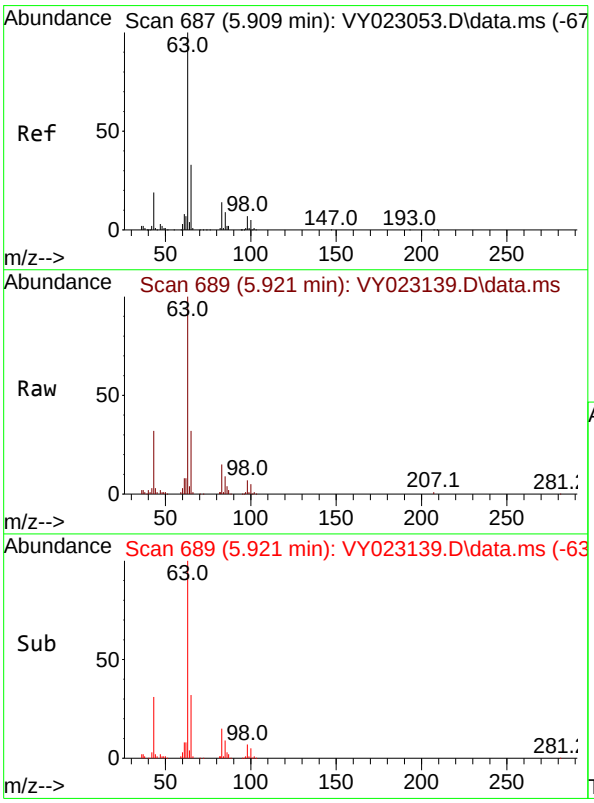
#23
Vinyl Acetate
Concen: 94.938 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 837107

Ion	Ratio	Lower	Upper
43	100		
86	13.2	9.6	14.4

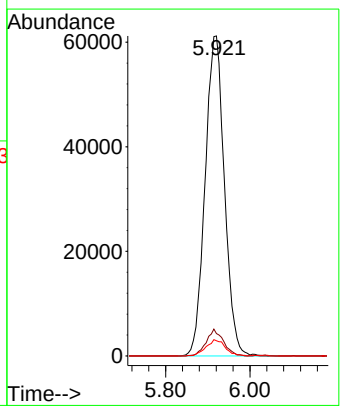


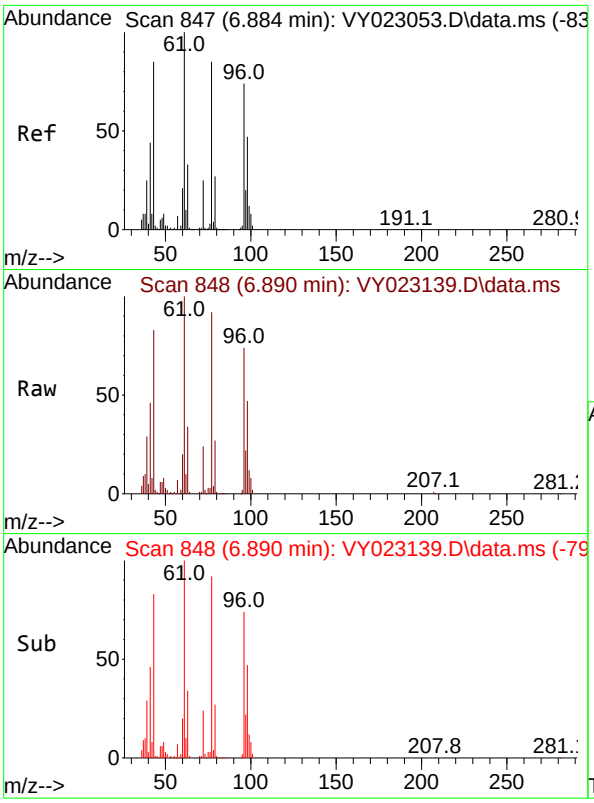


#24
1,1-Dichloroethane
Concen: 19.979 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 194782

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	4.7	2.4	7.1



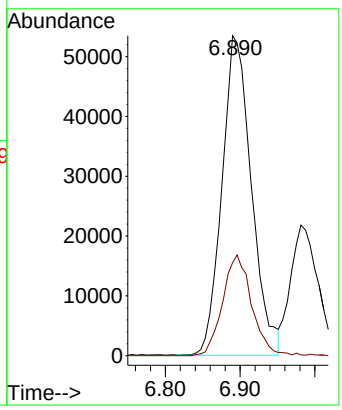


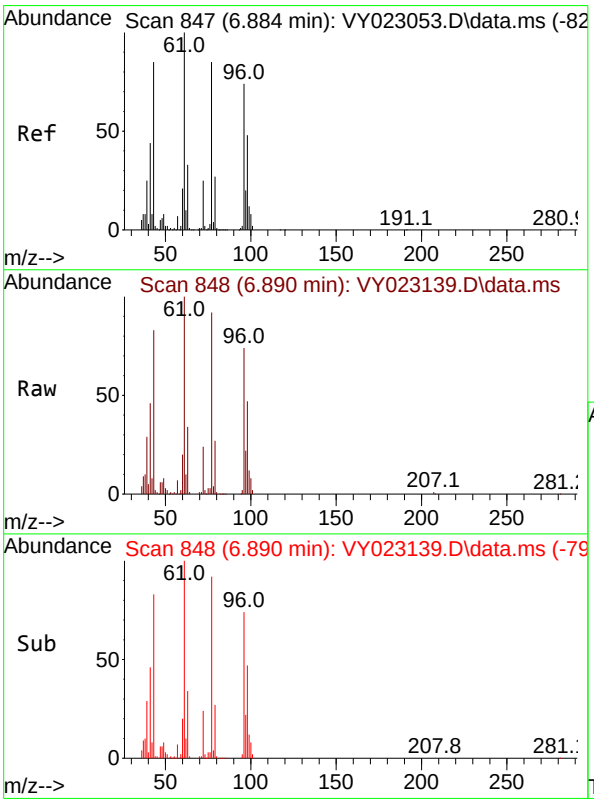
#25
2-Butanone
Concen: 100.847 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 146563

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.5	35.3

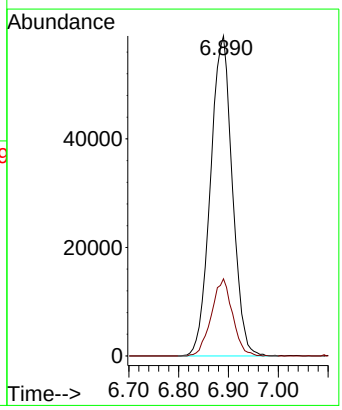


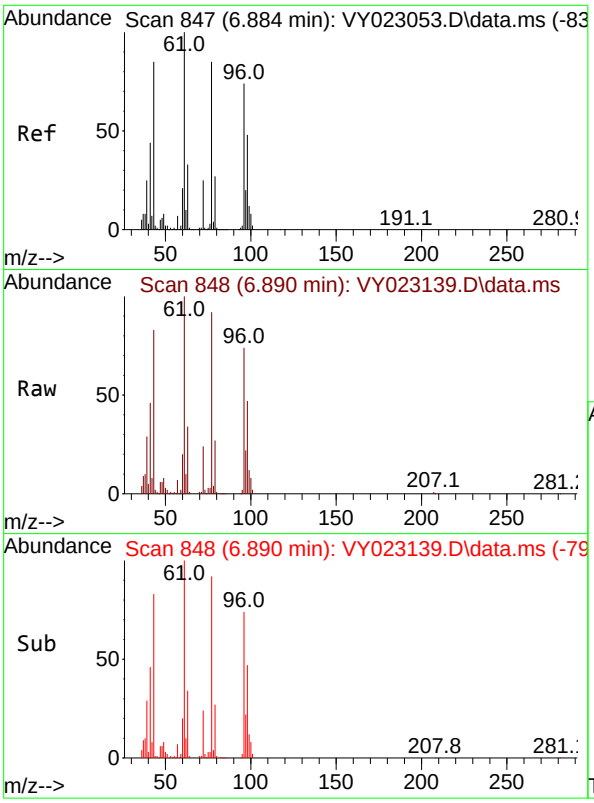


#26
2,2-Dichloropropane
Concen: 21.352 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 77 Resp: 179625

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.8



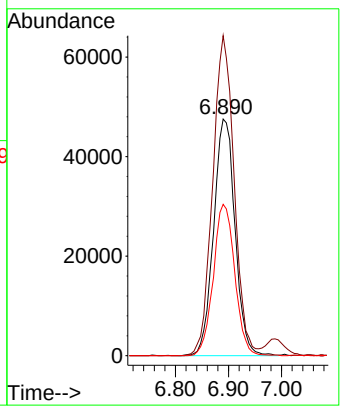


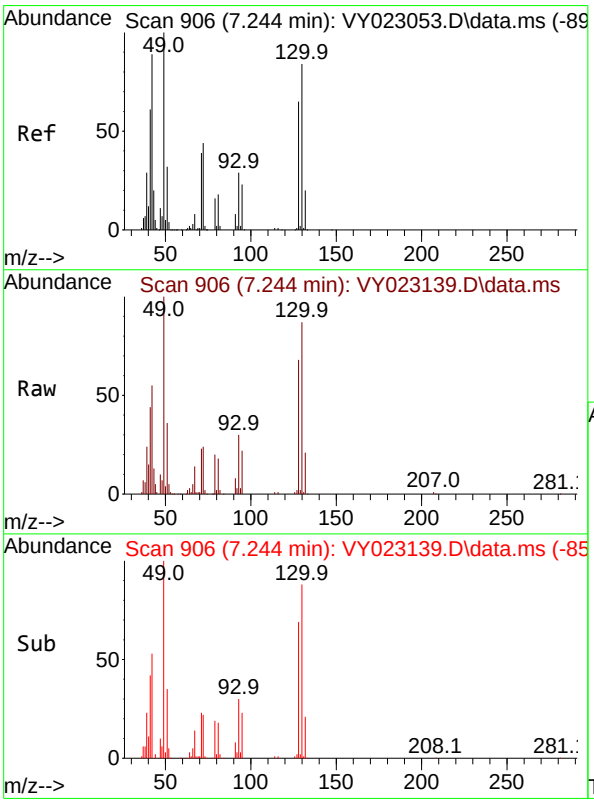
#27
cis-1,2-Dichloroethene
Concen: 20.582 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 96 Resp: 133354

Ion	Ratio	Lower	Upper
96	100		
61	135.3	0.0	278.6
98	64.1	0.0	130.4

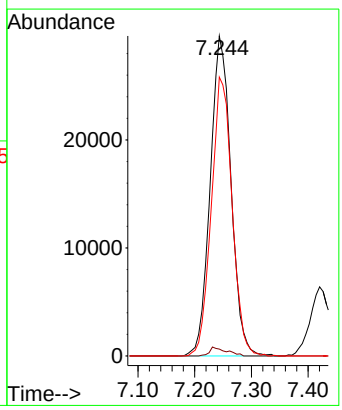


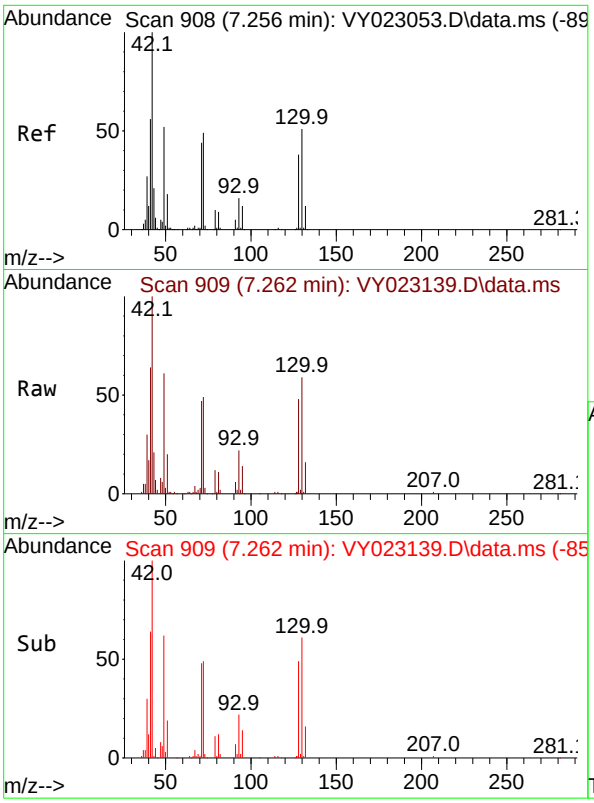


#28
Bromochloromethane
Concen: 19.474 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 49 Resp: 75324

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	87.0	66.4	99.6



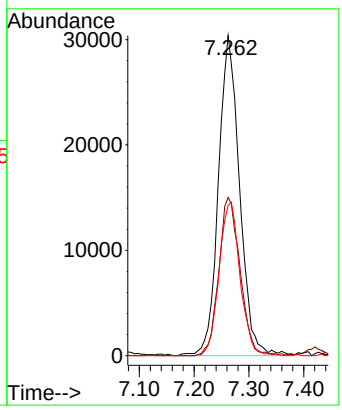


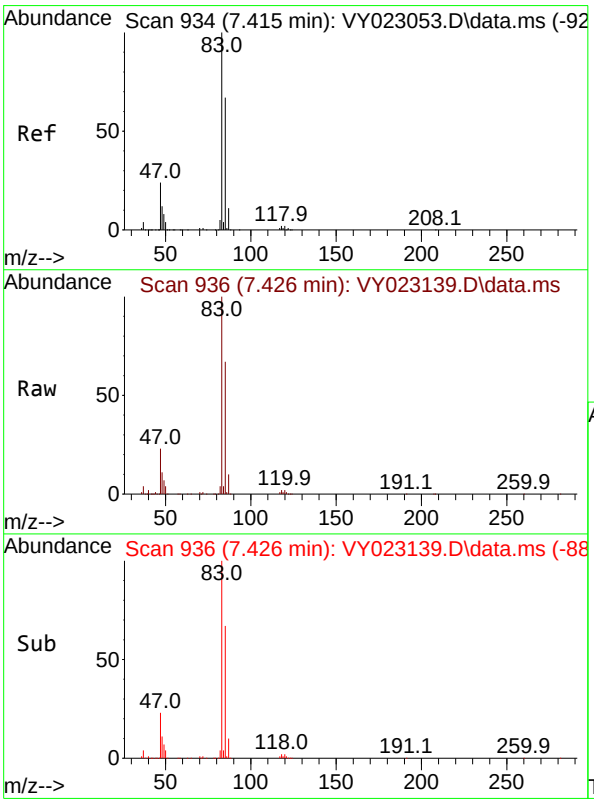
#29
Tetrahydrofuran
Concen: 90.389 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 42 Resp: 81427

Ion	Ratio	Lower	Upper
42	100		
72	49.9	39.4	59.2
71	47.8	36.5	54.7

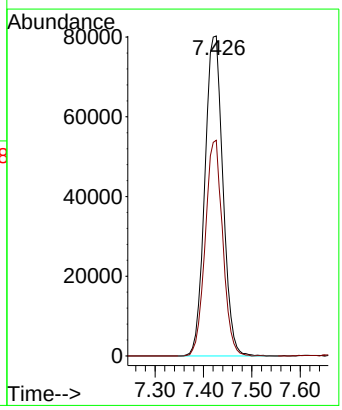


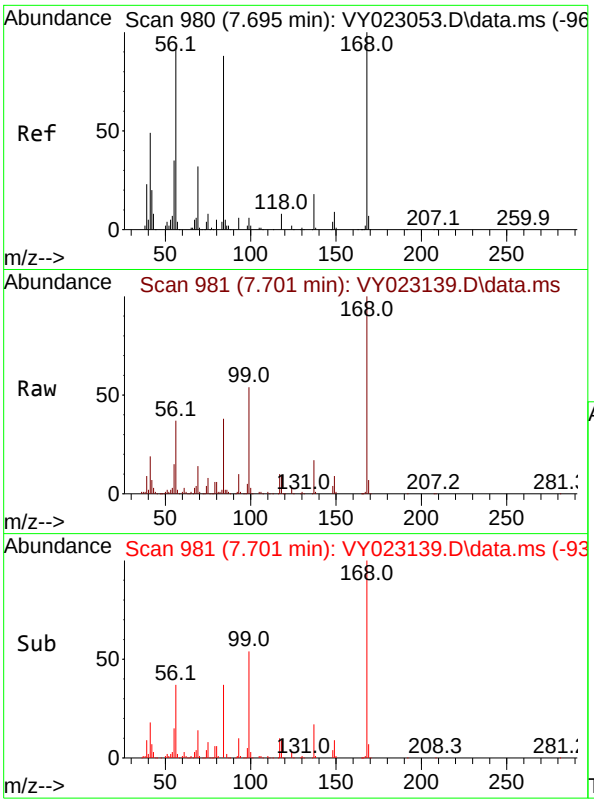


#30
Chloroform
Concen: 20.690 ug/l
RT: 7.426 min Scan# 936
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 208029

Ion	Ratio	Lower	Upper
83	100		
85	67.4	53.8	80.8



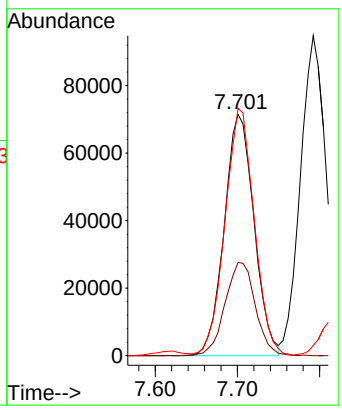


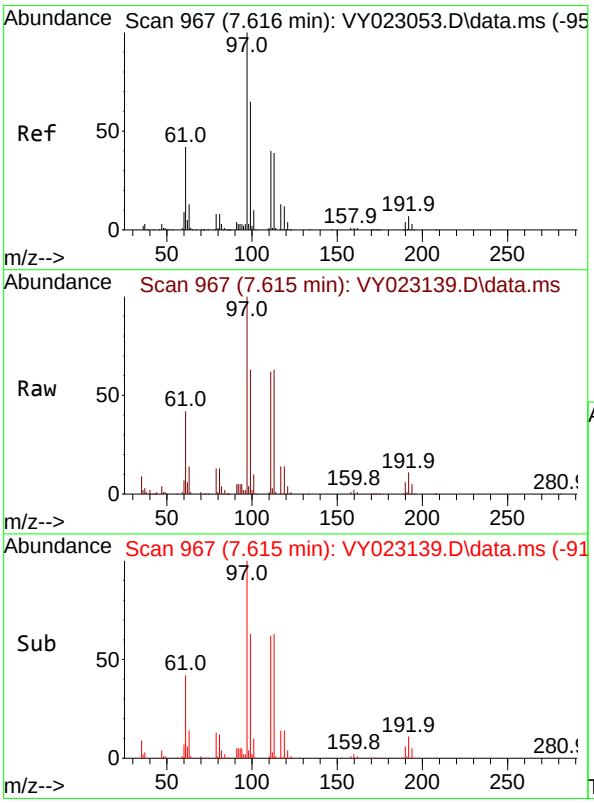
#31
Cyclohexane
Concen: 19.640 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 56 Resp: 180441

Ion	Ratio	Lower	Upper
56	100		
69	38.6	28.2	42.2
84	101.0	76.6	114.8

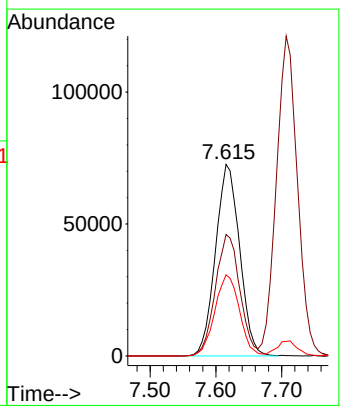


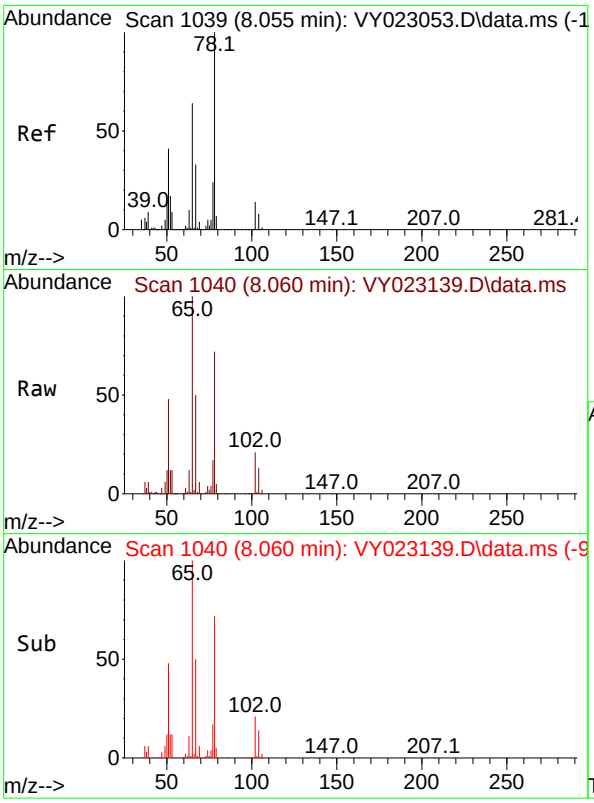


#32
1,1,1-Trichloroethane
Concen: 20.833 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 97 Resp: 185862

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	43.2	34.2	51.2



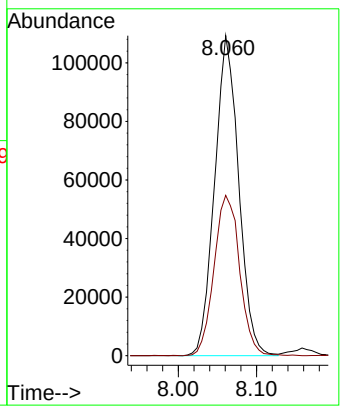


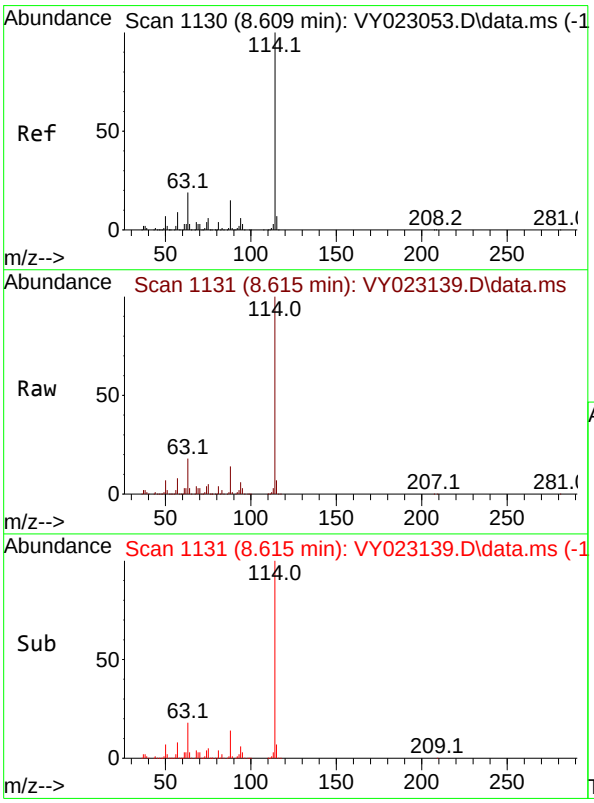
#33
1,2-Dichloroethane-d4
Concen: 47.365 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 65 Resp: 233623

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8

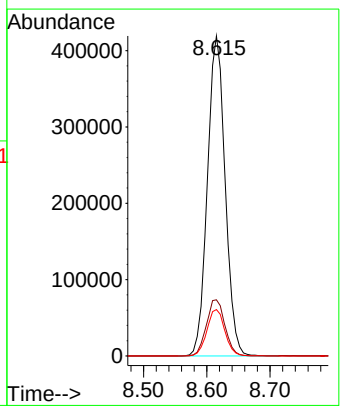


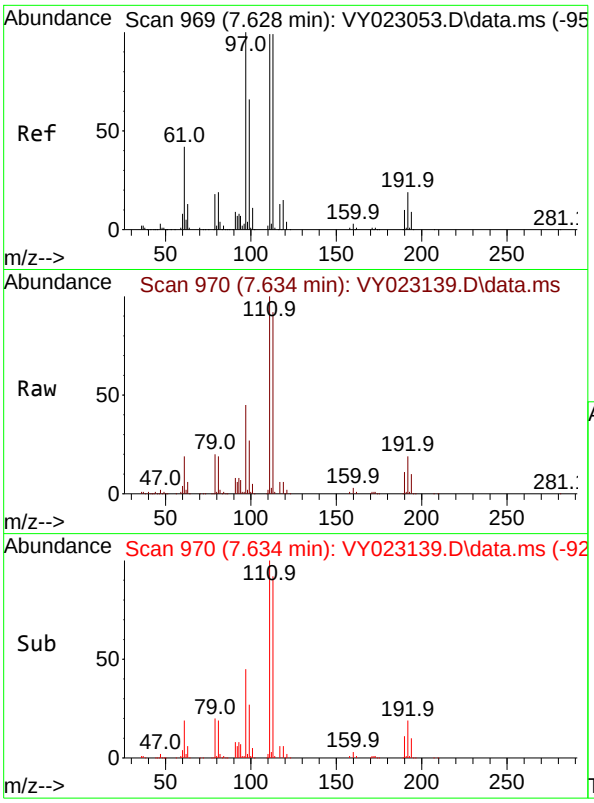


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:114 Resp: 816918

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	38.4
88	14.5	0.0	30.0



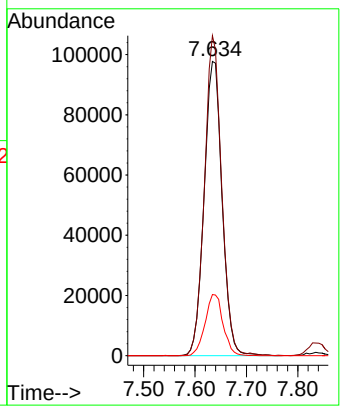


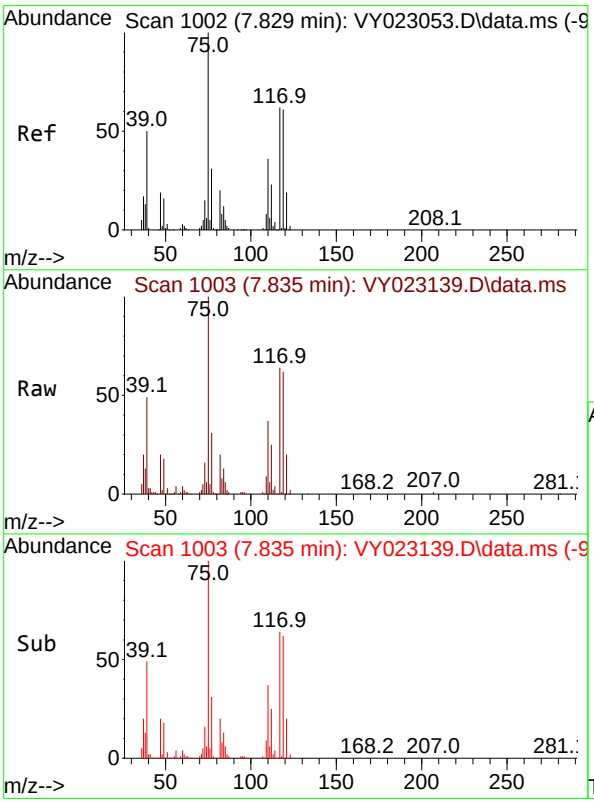
#35
Dibromofluoromethane
Concen: 48.567 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:113 Resp: 237406

Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.1	121.7
192	20.8	16.2	24.4

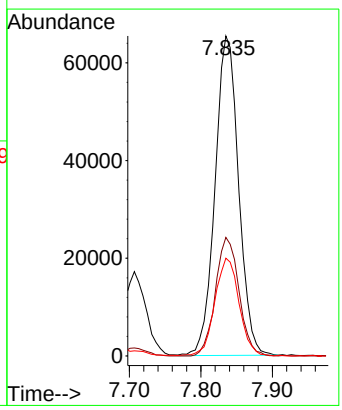


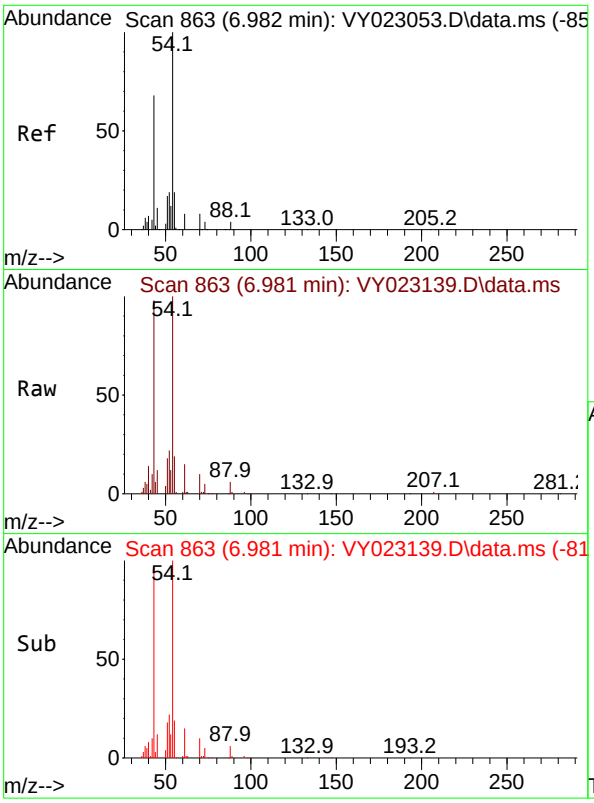


#36
1,1-Dichloropropene
Concen: 20.606 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 149696

Ion	Ratio	Lower	Upper
75	100		
110	37.0	18.1	54.4
77	31.6	24.6	37.0



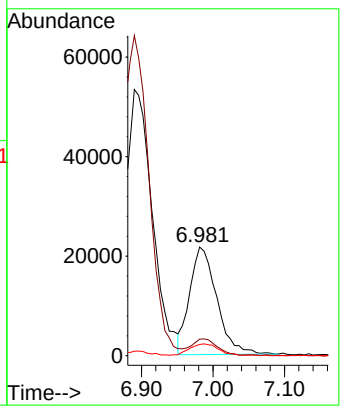


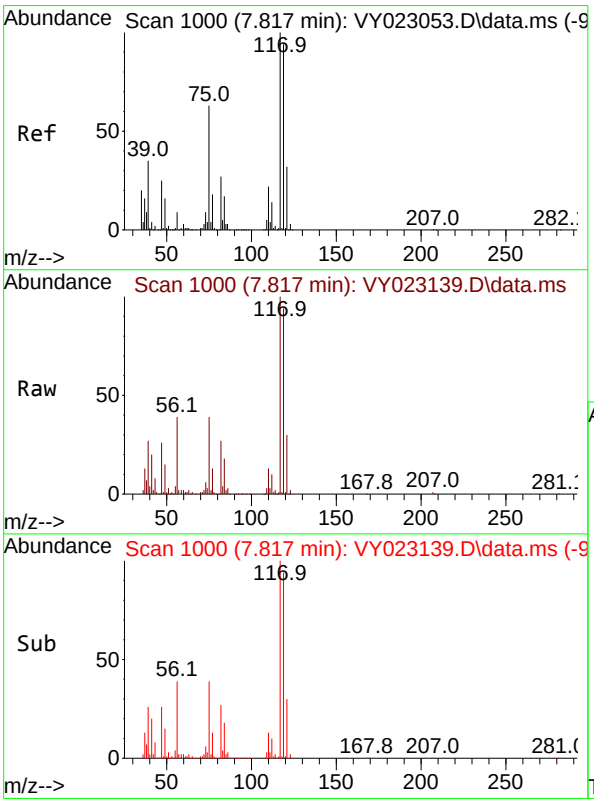
#37
Ethyl Acetate
Concen: 18.660 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 56943

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.9	17.9
70	12.3	8.8	13.2

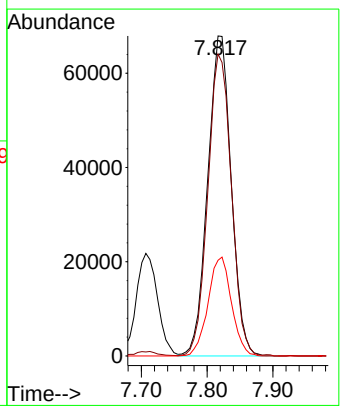


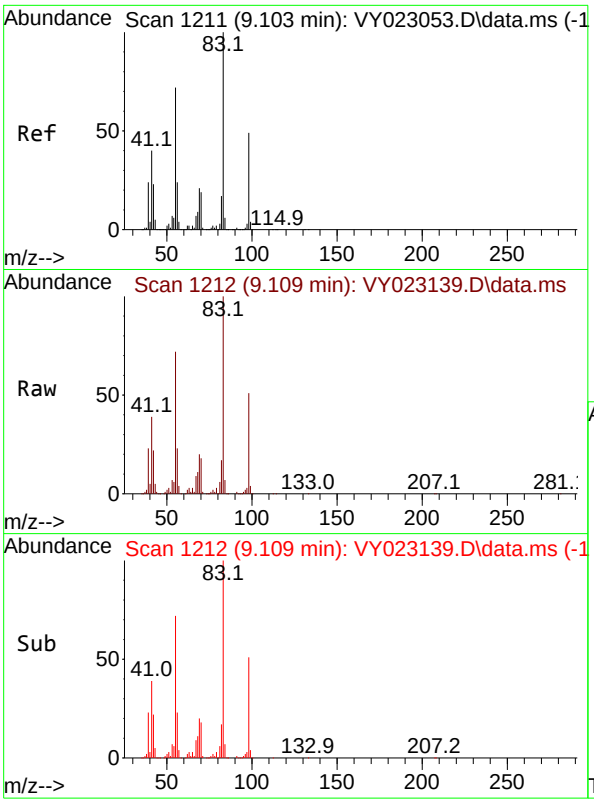


#38
Carbon Tetrachloride
Concen: 21.430 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 169089

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.6	113.4
121	29.9	25.8	38.8



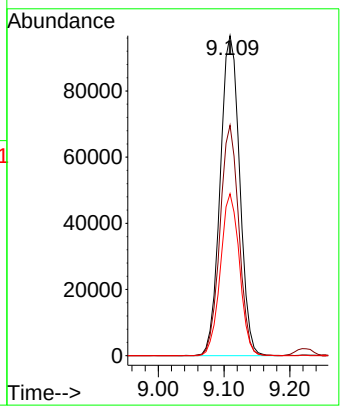


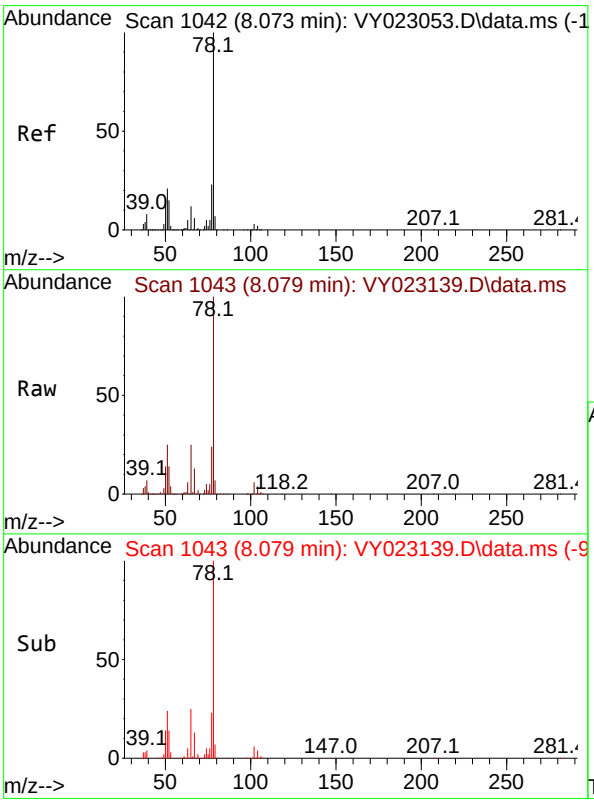
#39
Methylcyclohexane
Concen: 20.803 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 83 Resp: 199011

Ion	Ratio	Lower	Upper
83	100		
55	72.0	57.6	86.4
98	50.6	39.2	58.8

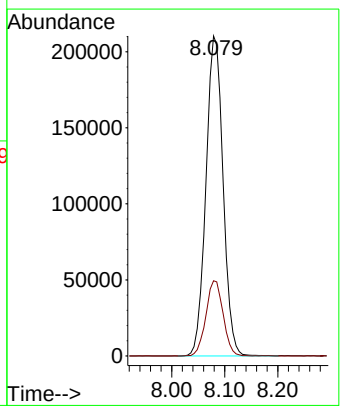


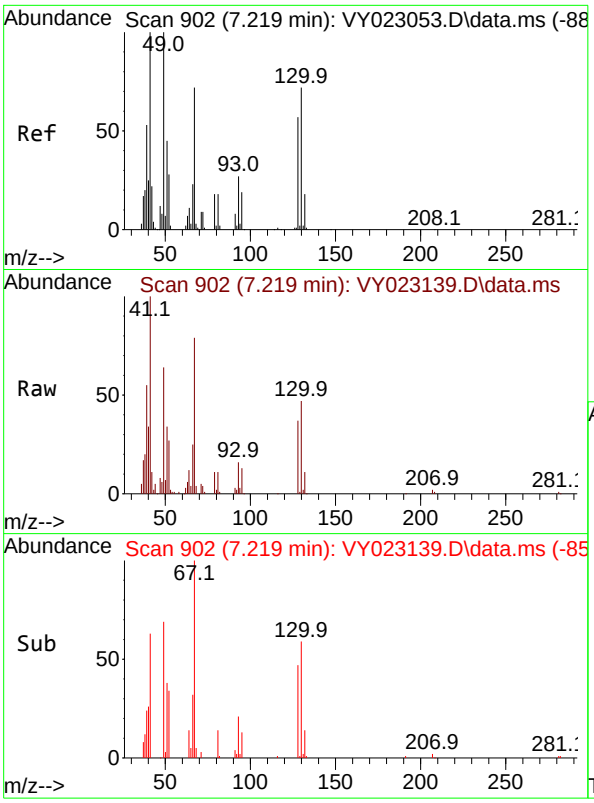


#40
Benzene
Concen: 21.055 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 78 Resp: 471421

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0



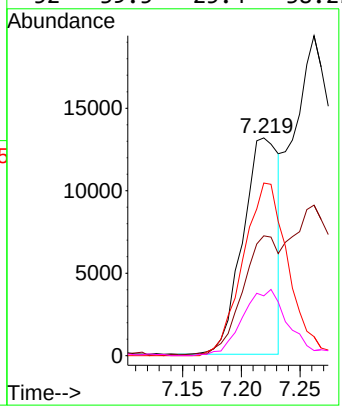


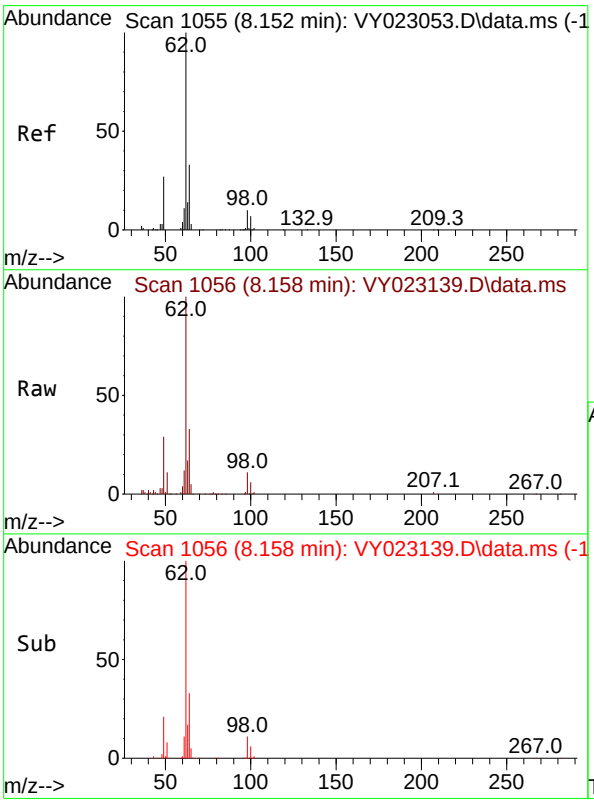
#41
Methacrylonitrile
Concen: 15.786 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 41 Resp: 27802

Ion	Ratio	Lower	Upper
41	100		
39	55.8	43.4	65.2
67	101.3	63.6	95.4#
52	39.5	25.4	38.2#

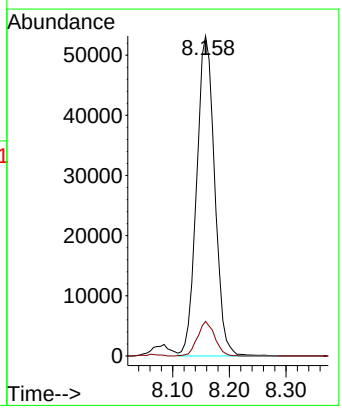


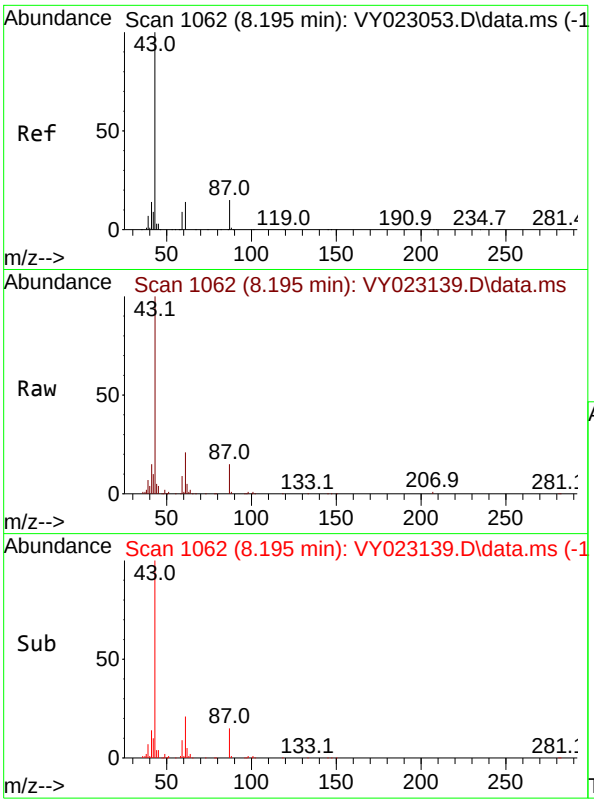


#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 117552

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6



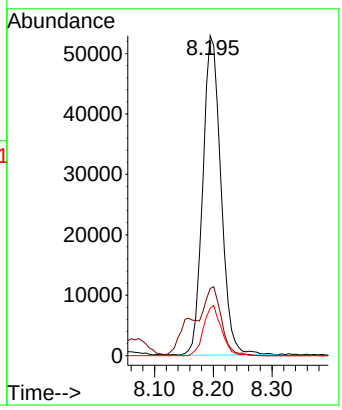


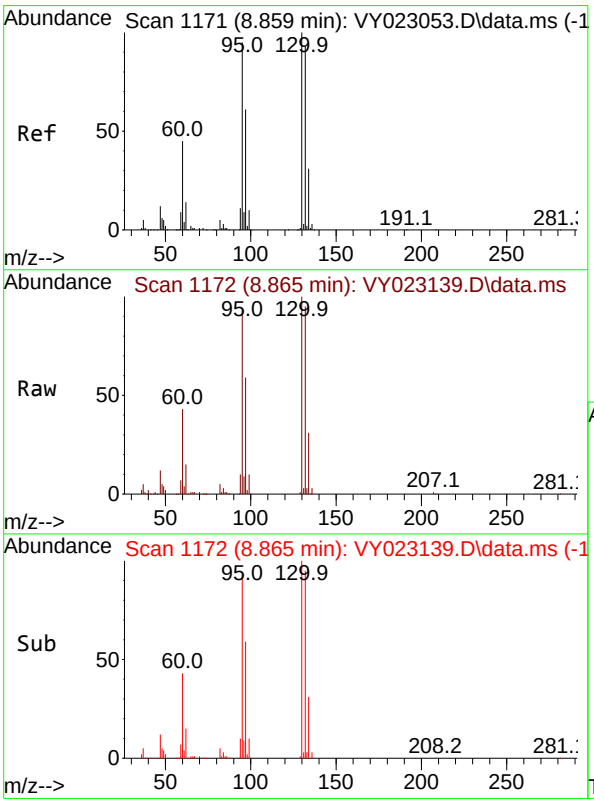
#43
Isopropyl Acetate
Concen: 18.431 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 113681

Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.4	24.6
87	15.4	11.8	17.6

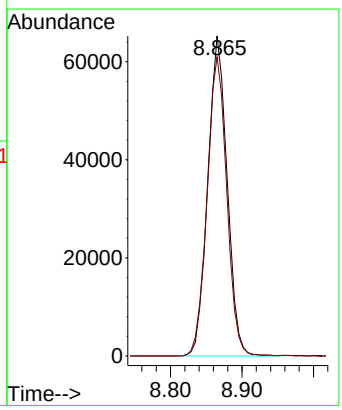


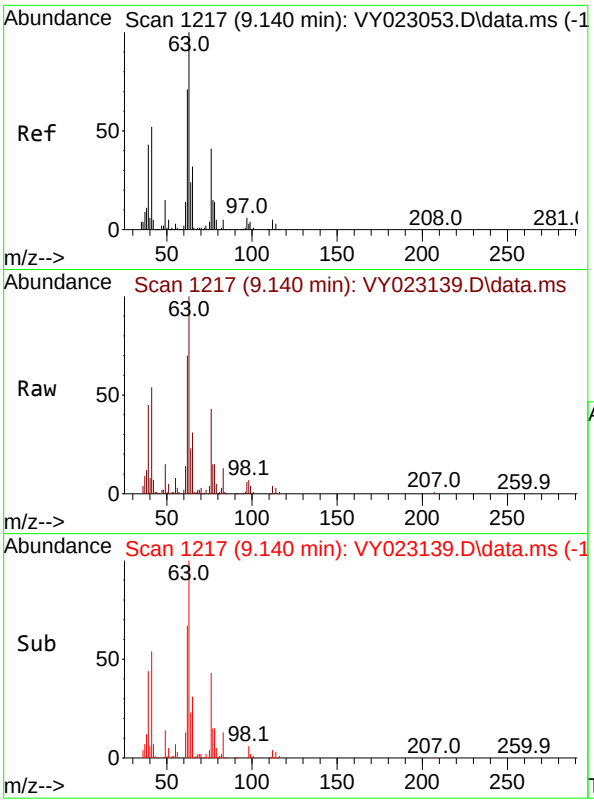


#44
Trichloroethene
Concen: 21.187 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:130 Resp: 122590

Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	190.2



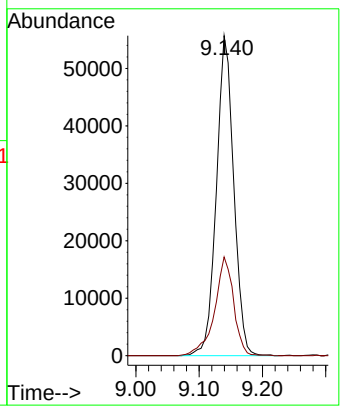


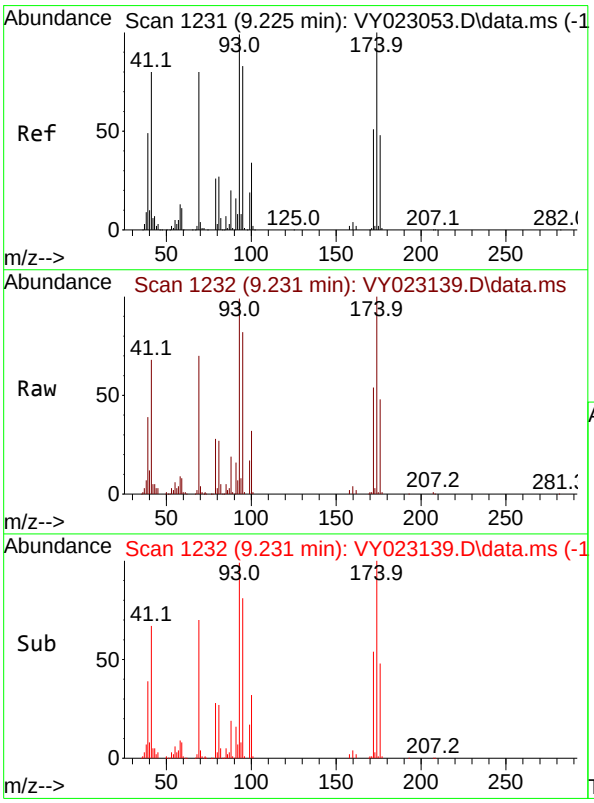
#45
1,2-Dichloropropane
Concen: 20.506 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 63 Resp: 105641

Ion	Ratio	Lower	Upper
63	100		
65	30.9	25.3	37.9

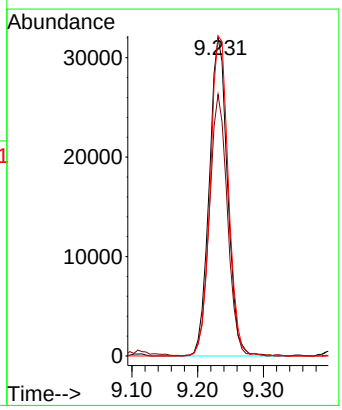


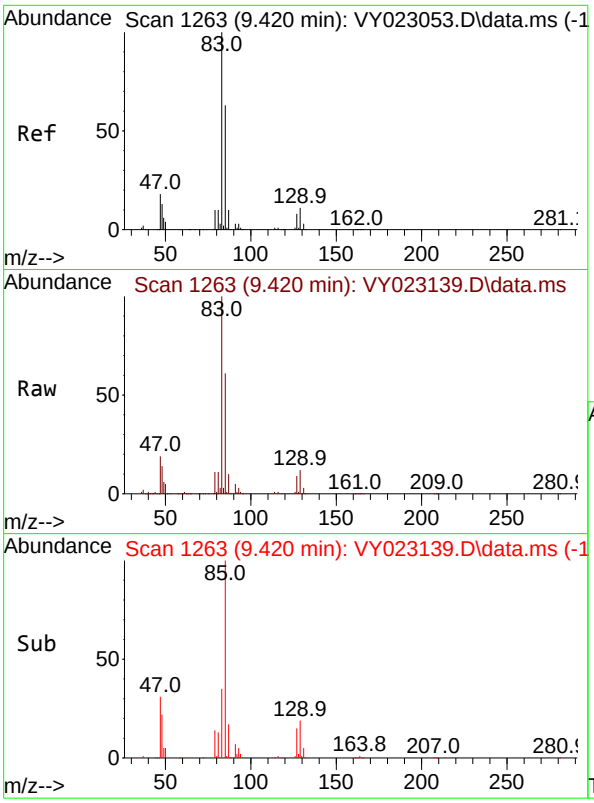


#46
Dibromomethane
Concen: 20.972 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 93 Resp: 62014

Ion	Ratio	Lower	Upper
93	100		
95	81.1	66.5	99.7
174	99.4	81.8	122.8



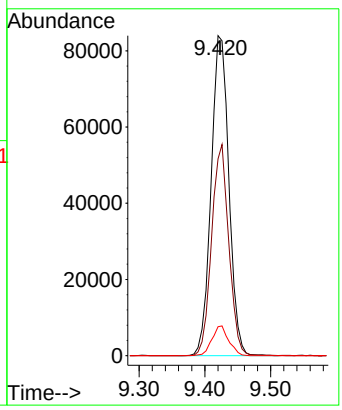


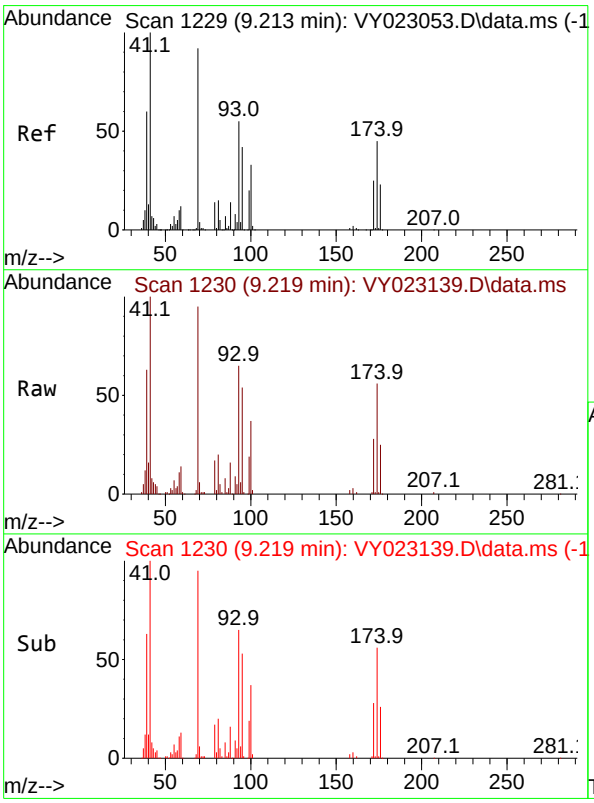
#47
Bromodichloromethane
Concen: 20.725 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 83 Resp: 157692

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.2	75.4
127	9.1	6.6	10.0

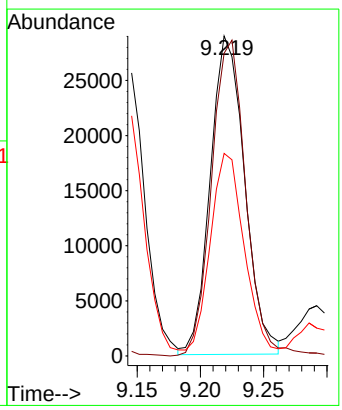


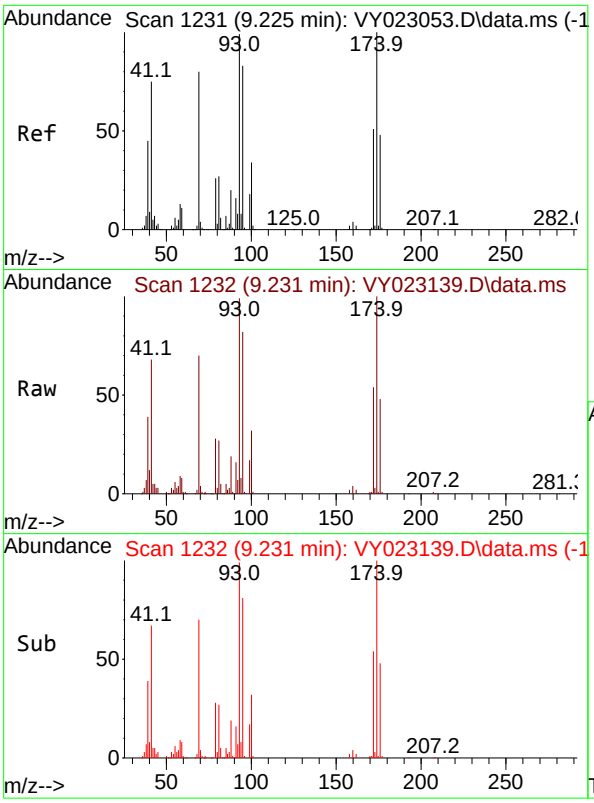


#48
Methyl methacrylate
Concen: 18.499 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 54599

Ion	Ratio	Lower	Upper
41	100		
69	99.3	73.2	109.8
39	62.8	47.0	70.4



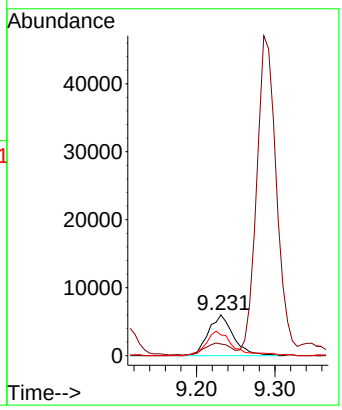


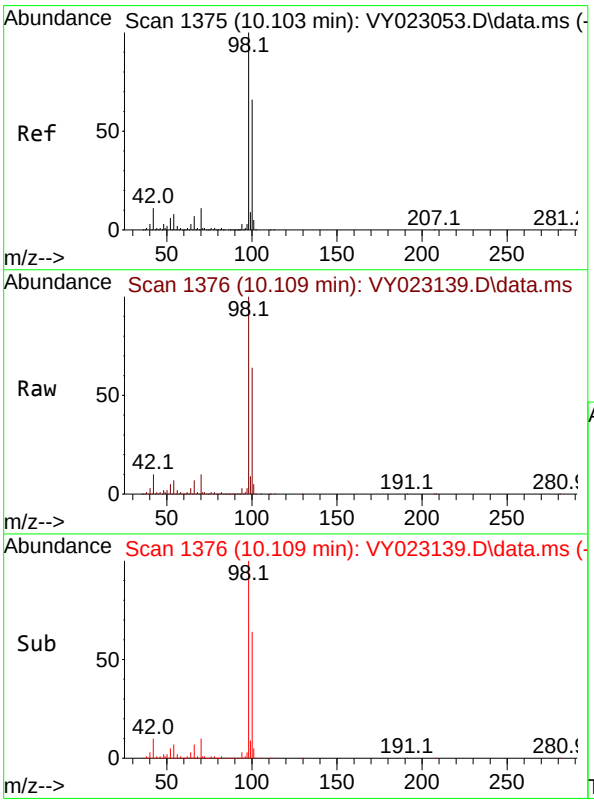
#49
1,4-Dioxane
Concen: 383.459 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 88 Resp: 13295

Ion	Ratio	Lower	Upper
88	100		
43	29.3	24.3	36.5
58	65.0	55.4	83.0

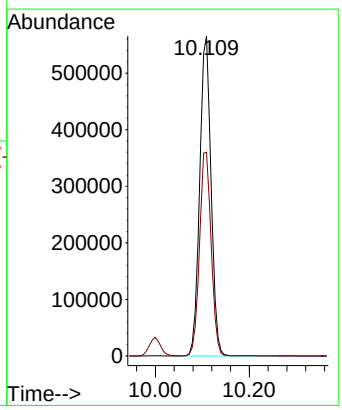


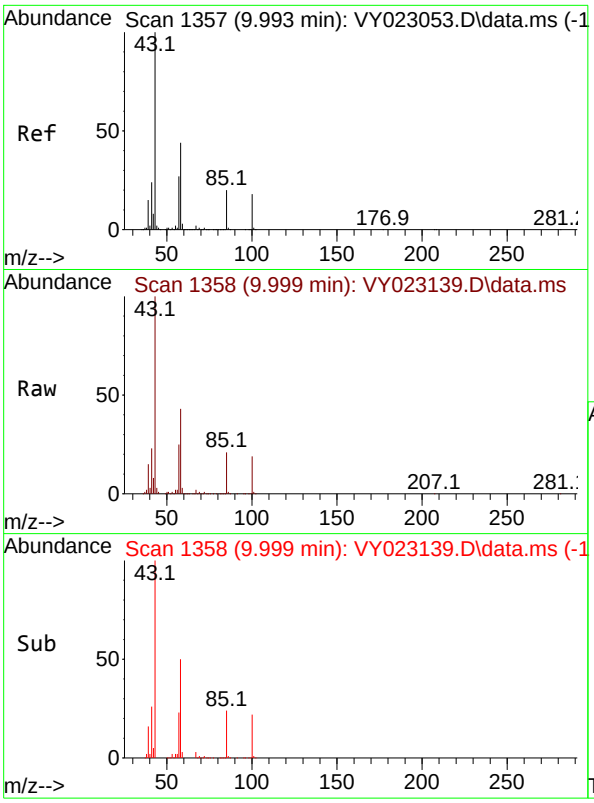


#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 98 Resp: 947313

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5



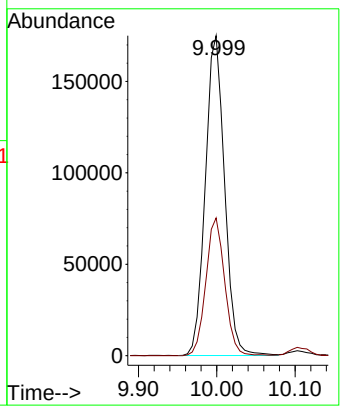


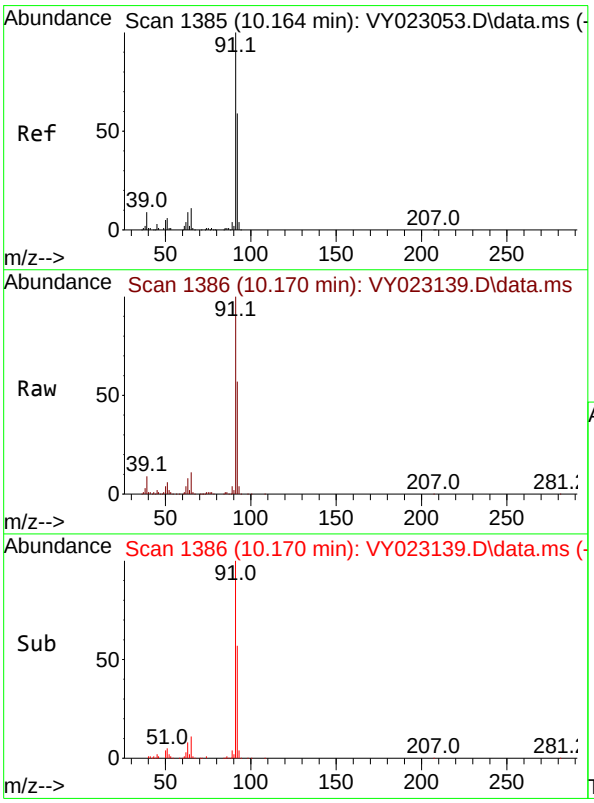
#51
4-Methyl-2-Pentanone
Concen: 93.721 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 298177

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3

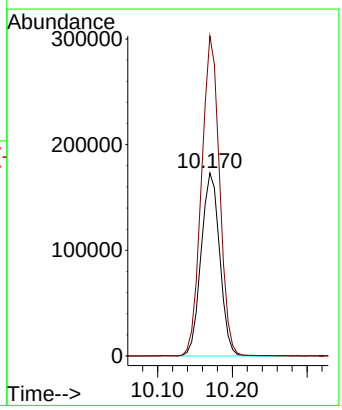


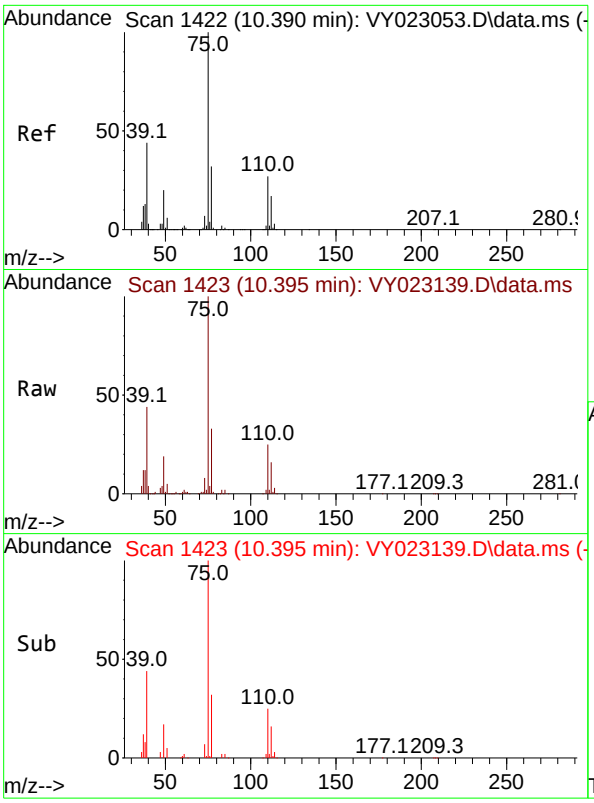


#52
Toluene
Concen: 21.028 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 92 Resp: 299030

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.4	204.6



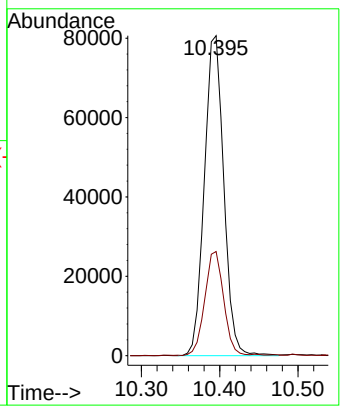


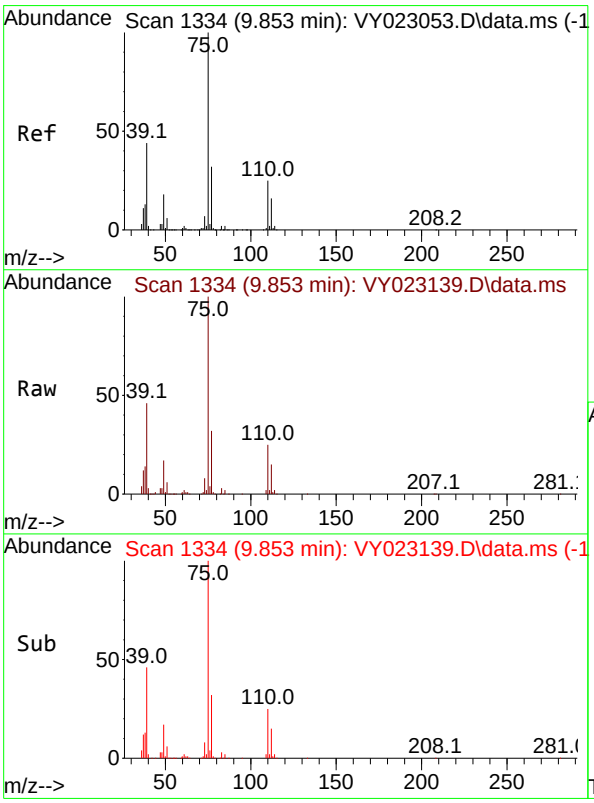
#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 75 Resp: 138793

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5

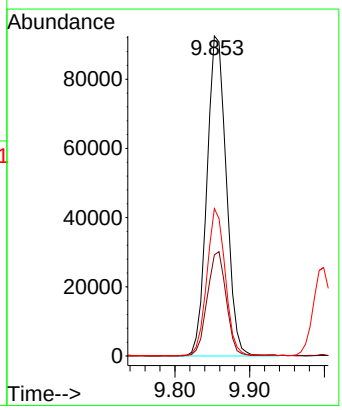


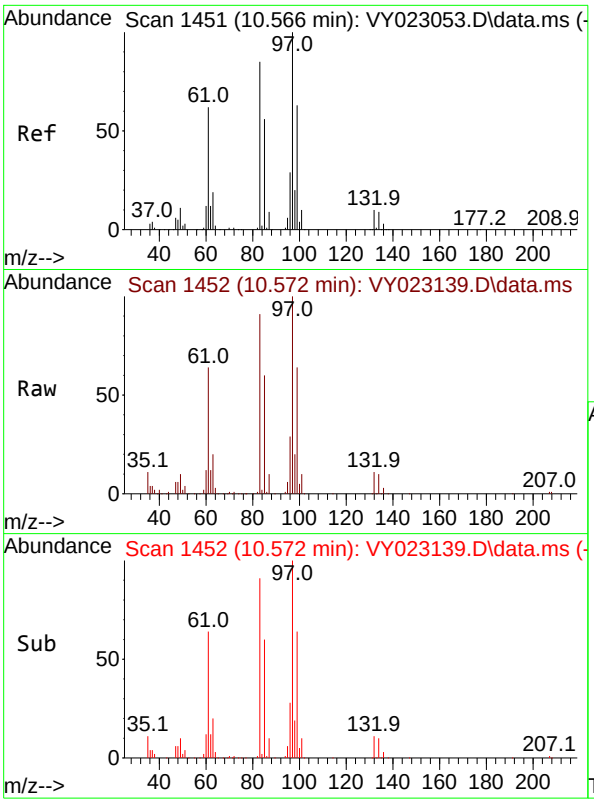


#54
cis-1,3-Dichloropropene
Concen: 20.453 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 166637

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	46.0	35.6	53.4



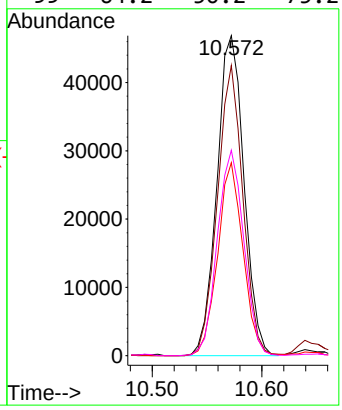


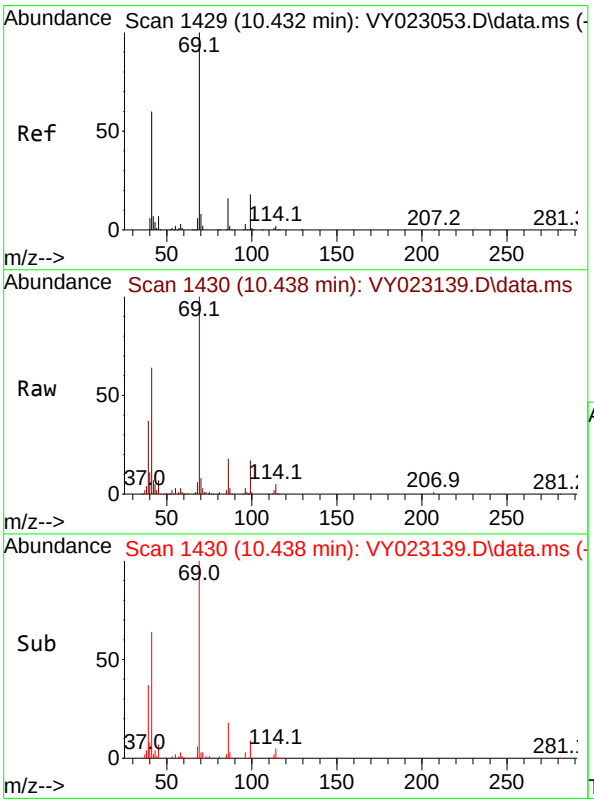
#55
1,1,2-Trichloroethane
Concen: 20.350 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 97 Resp: 80520

Ion	Ratio	Lower	Upper
97	100		
83	90.7	67.7	101.5
85	60.3	44.5	66.7
99	64.2	50.2	75.2

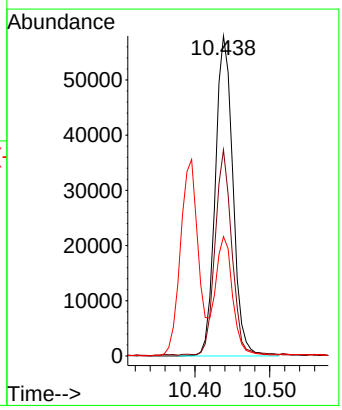


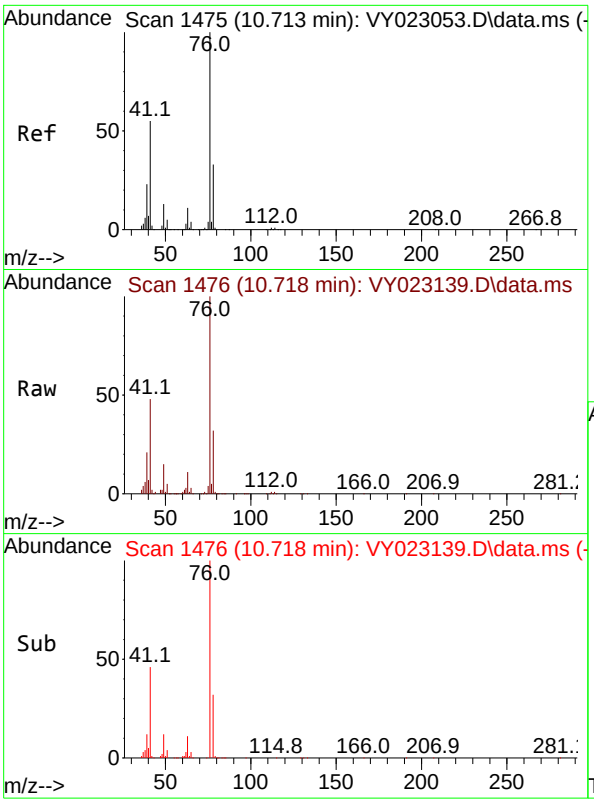


#56
Ethyl methacrylate
Concen: 18.741 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 69 Resp: 94888

Ion	Ratio	Lower	Upper
69	100		
41	61.1	48.6	72.8
39	34.5	27.0	40.4



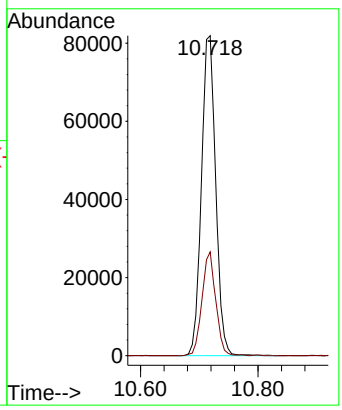


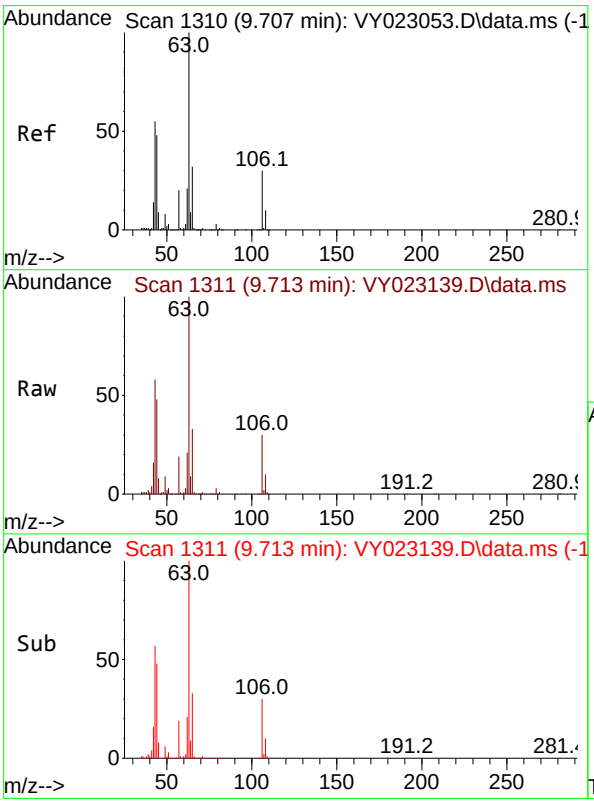
#57
1,3-Dichloropropane
Concen: 20.594 ug/l
RT: 10.718 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 76 Resp: 138195

Ion	Ratio	Lower	Upper
76	100		
78	31.3	26.0	39.0

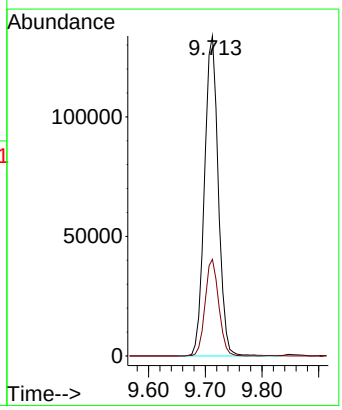


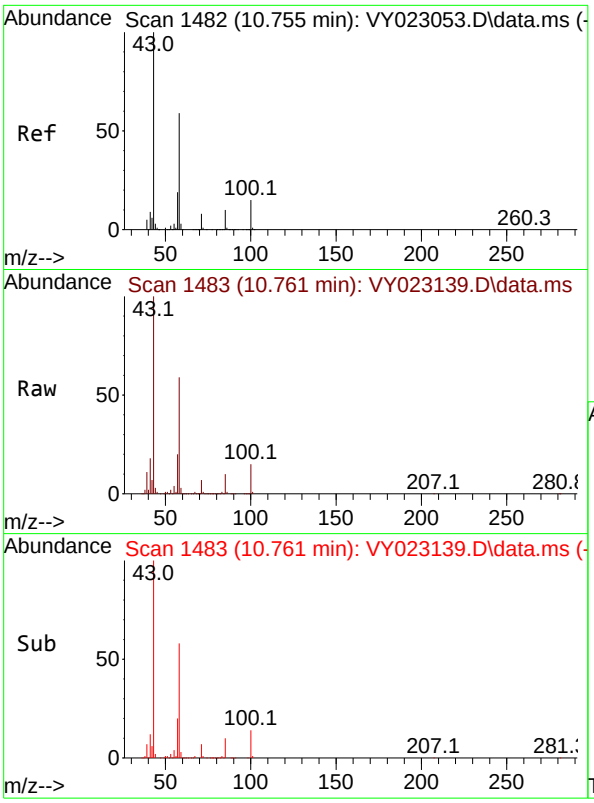


#58
2-Chloroethyl Vinyl ether
Concen: 94.672 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 226098

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.2	34.8



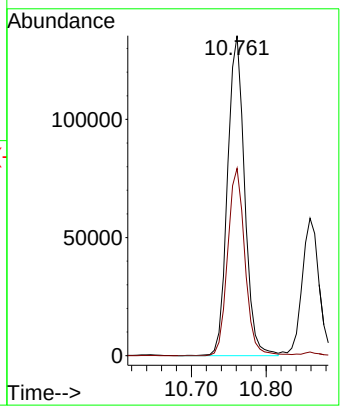


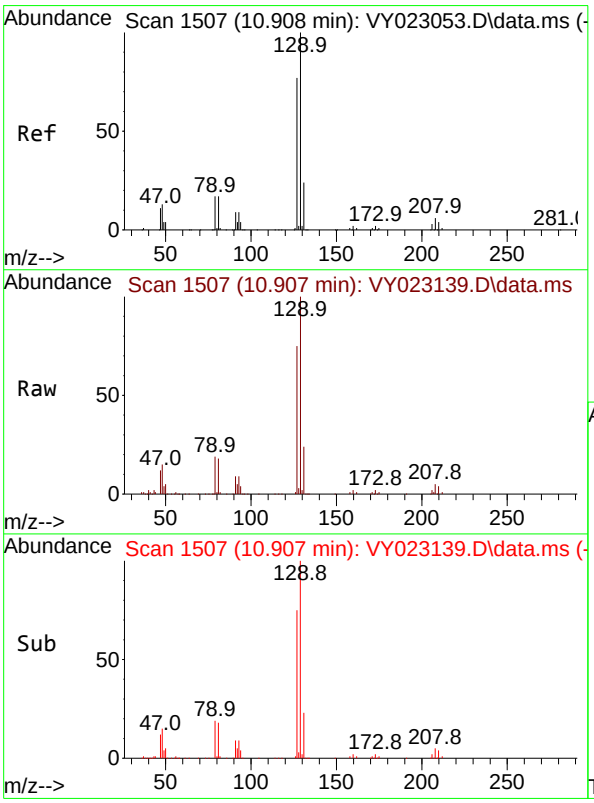
#59
2-Hexanone
Concen: 99.034 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 214547

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

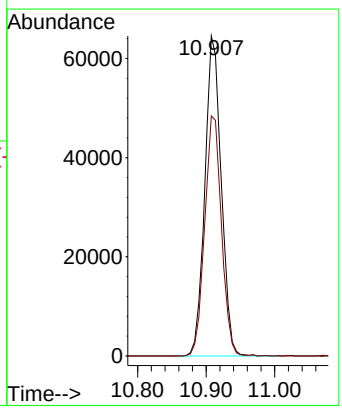


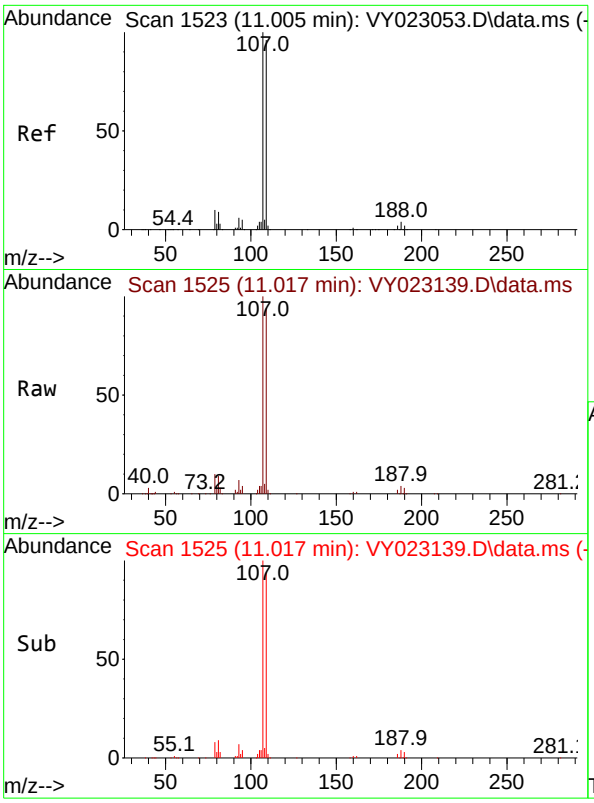


#60
Dibromochloromethane
Concen: 20.554 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:129 Resp: 107311

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.5



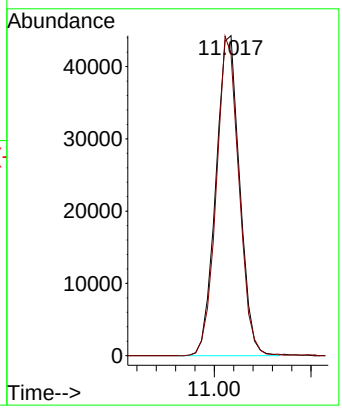


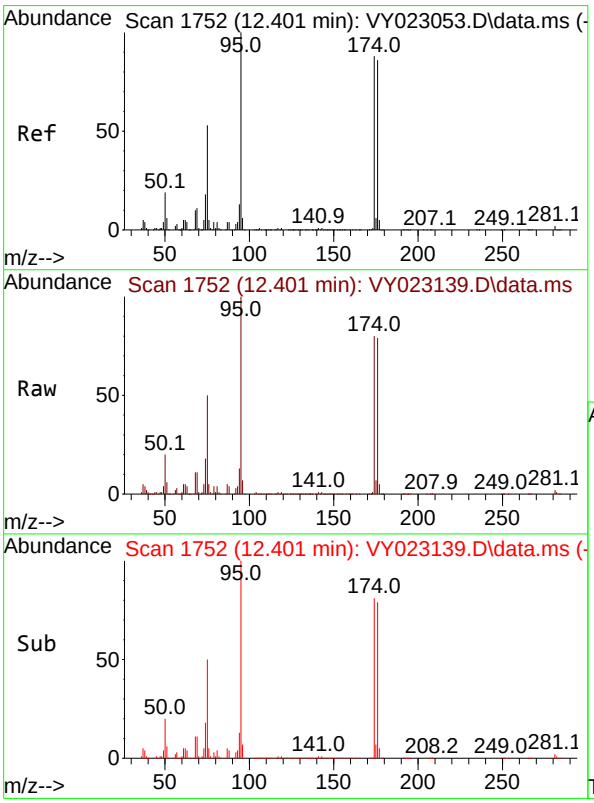
#61
1,2-Dibromoethane
Concen: 20.280 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:107 Resp: 75418

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.6	113.4

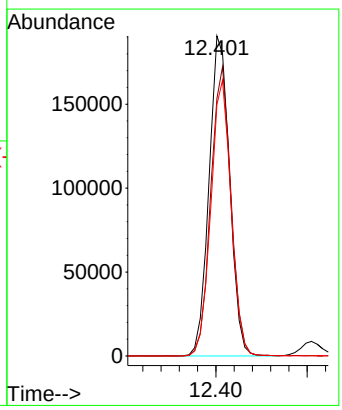


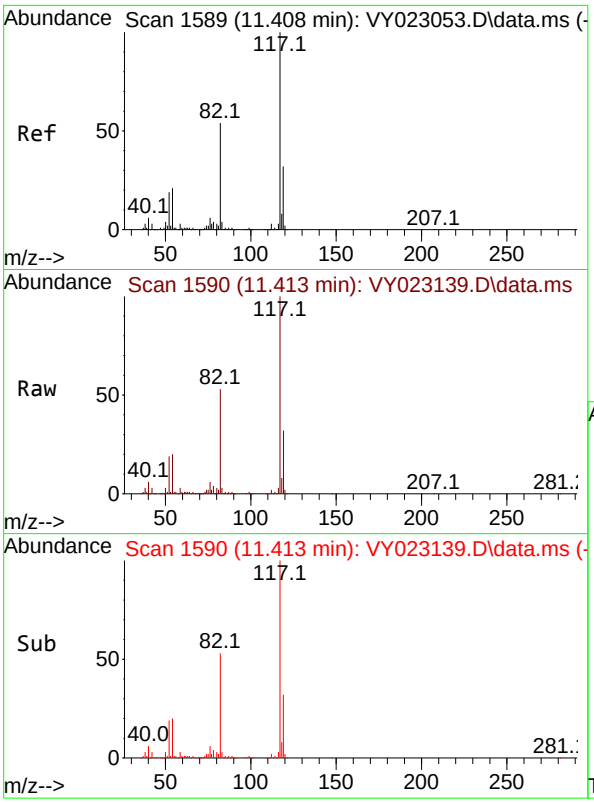


#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 95 Resp: 298119

Ion	Ratio	Lower	Upper
95	100		
174	88.9	0.0	171.6
176	85.0	0.0	167.6



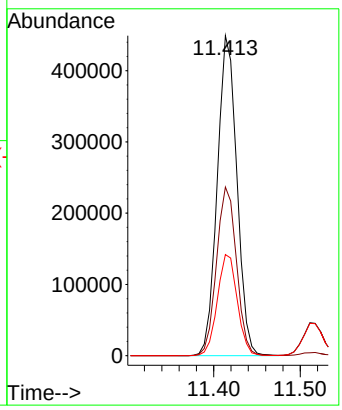


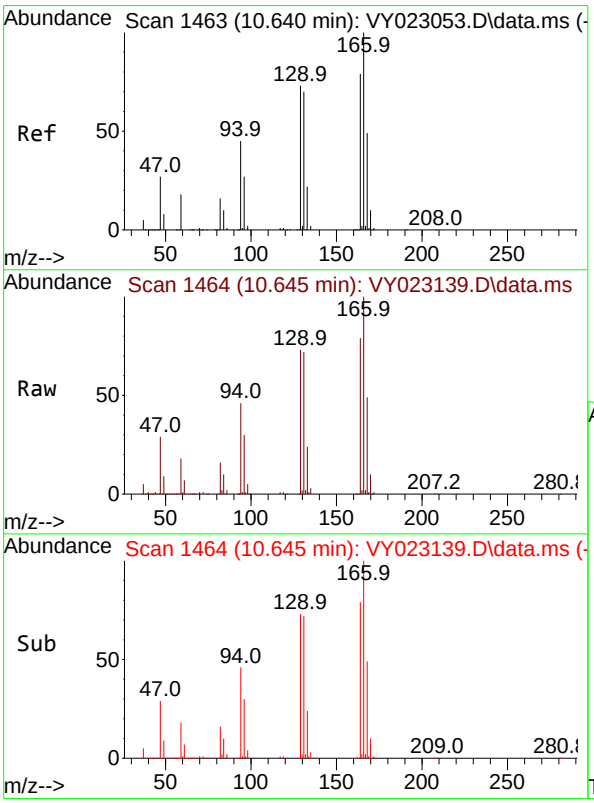
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:117 Resp: 707204

Ion	Ratio	Lower	Upper
117	100		
82	52.7	43.4	65.0
119	31.6	25.6	38.4

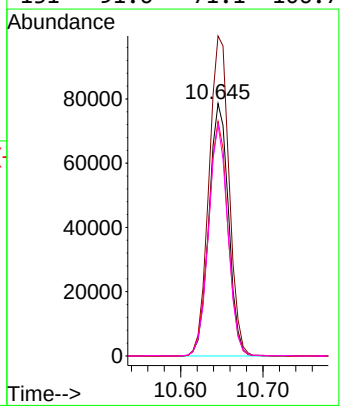


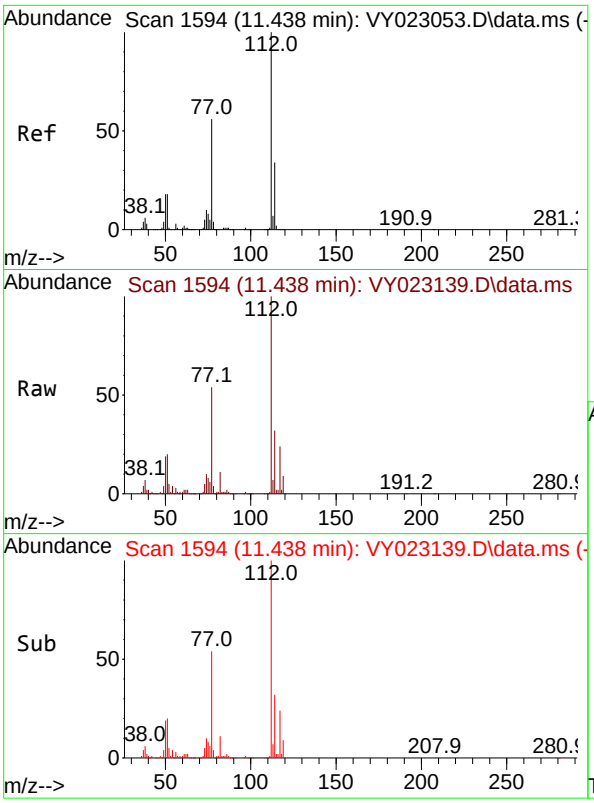


#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:164 Resp: 129655

Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.1	151.7
129	92.9	74.0	111.0
131	91.6	71.1	106.7



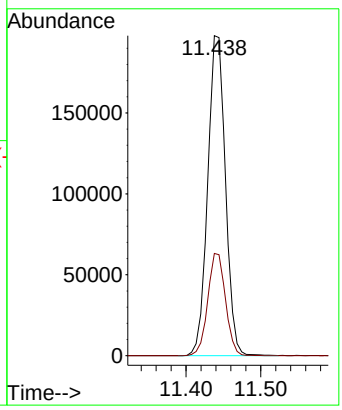


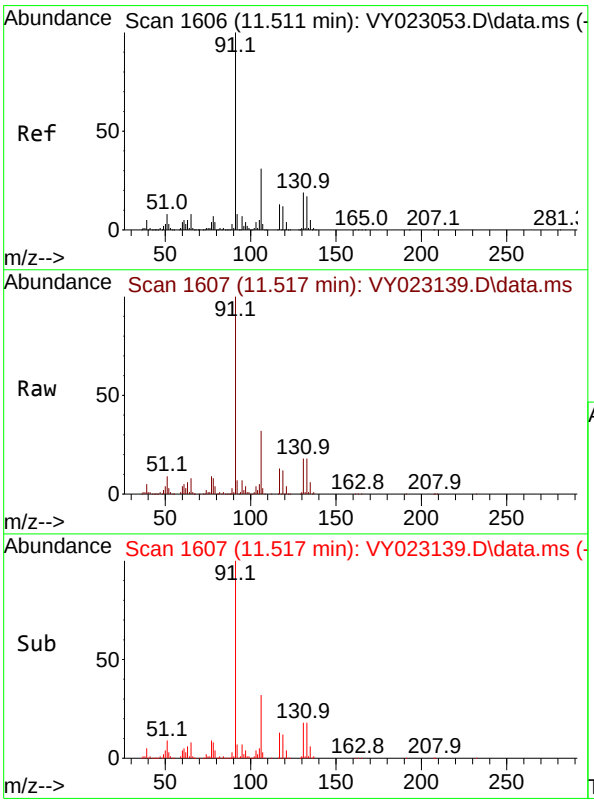
#65
Chlorobenzene
Concen: 21.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:112 Resp: 325629

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4

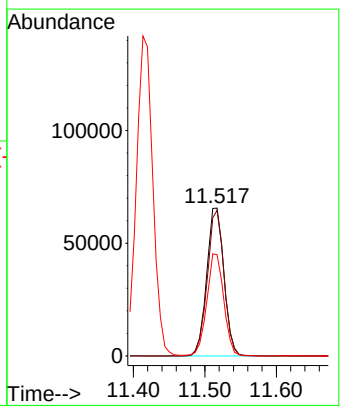


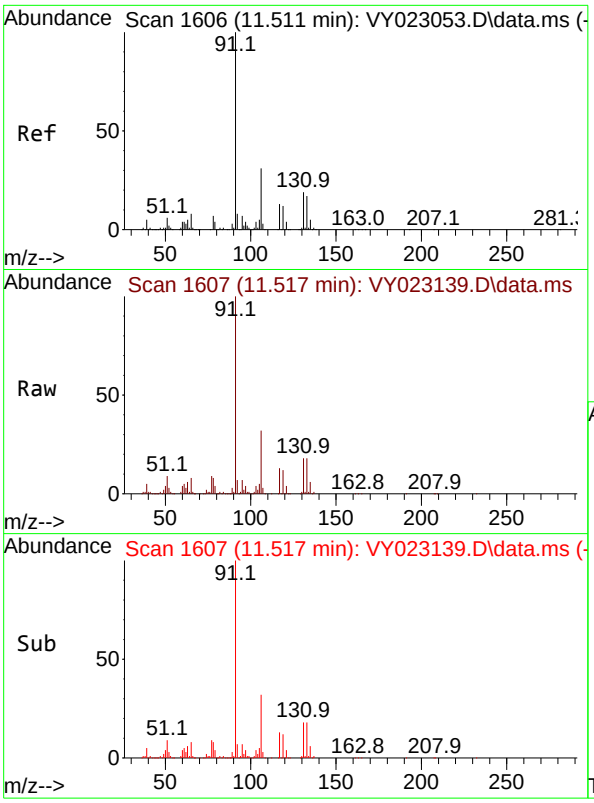


#66
1,1,1,2-Tetrachloroethane
Concen: 21.199 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:131 Resp: 109752

Ion	Ratio	Lower	Upper
131	100		
133	95.3	46.9	140.6
119	67.9	33.2	99.6



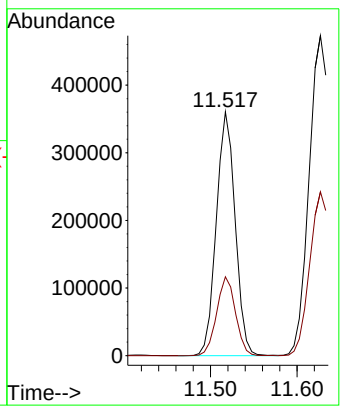


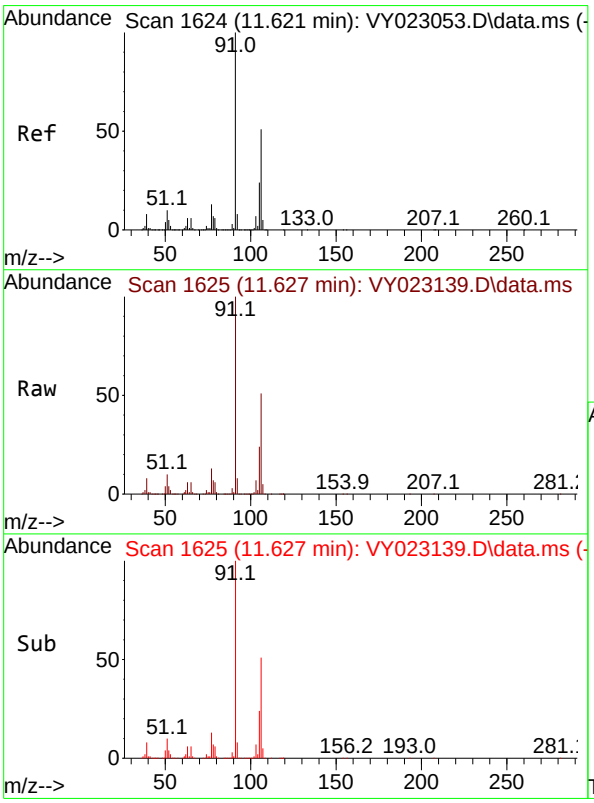
#67
Ethyl Benzene
Concen: 20.767 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 91 Resp: 545176

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4

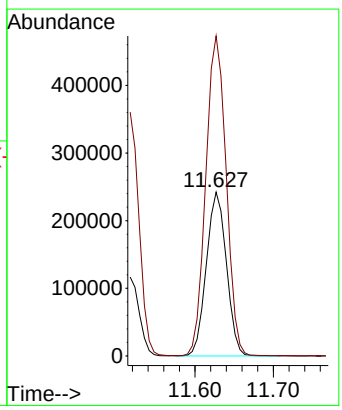


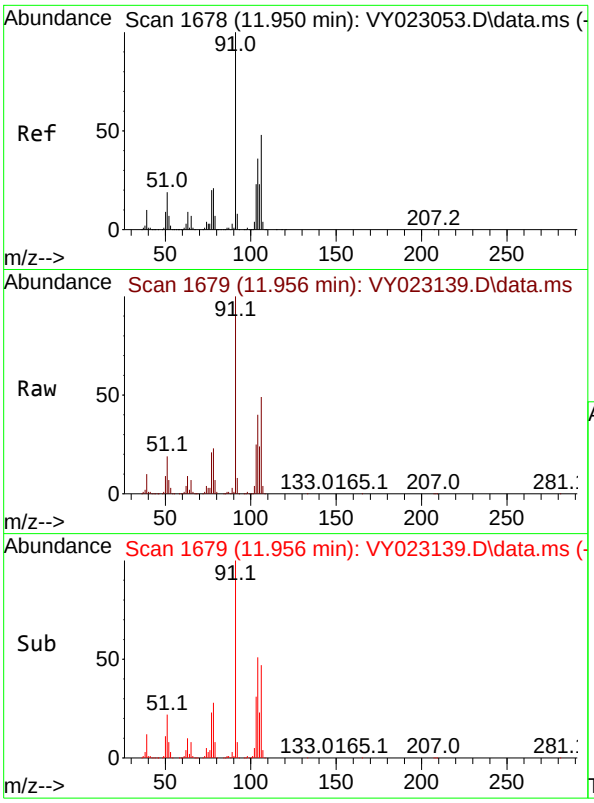


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 430120

Ion	Ratio	Lower	Upper
106	100		
91	198.8	158.6	238.0



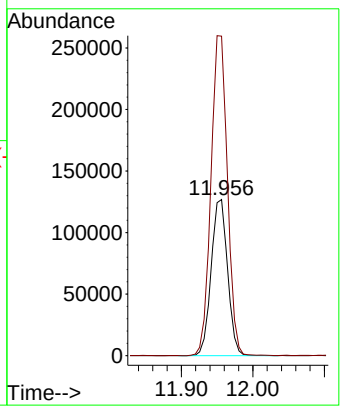


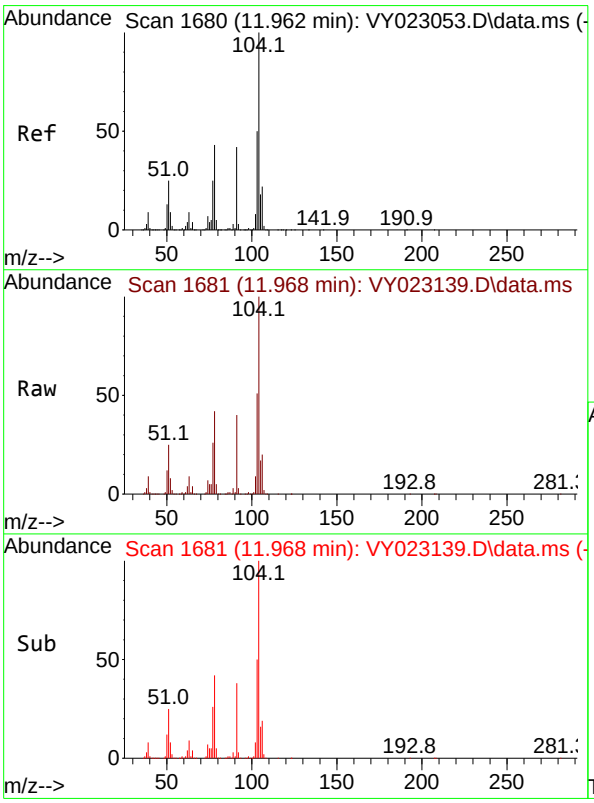
#69
o-Xylene
Concen: 21.020 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:106 Resp: 201847

Ion	Ratio	Lower	Upper
106	100		
91	206.0	103.2	309.4

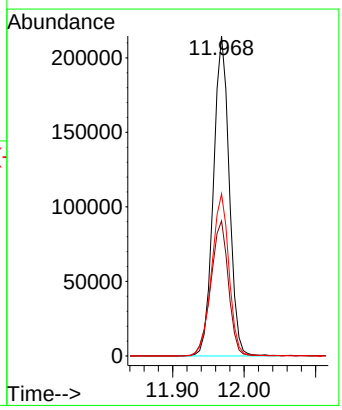


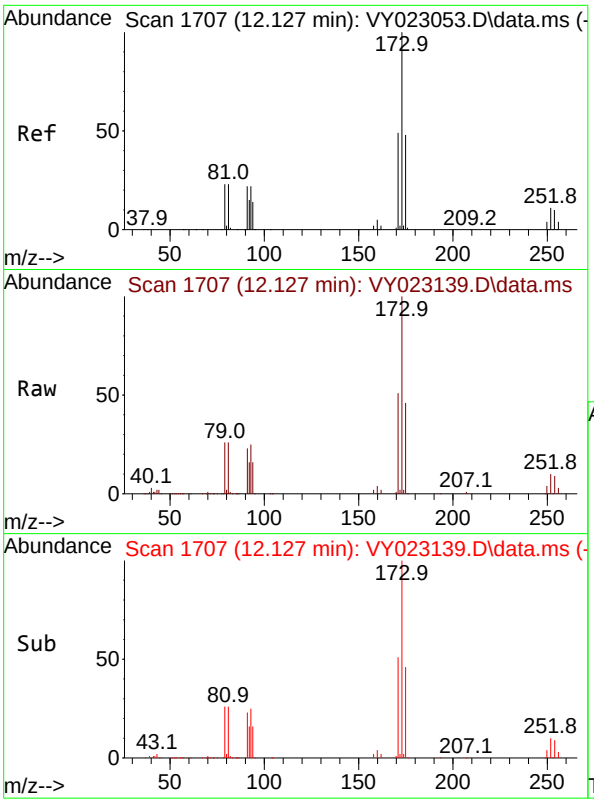


#70
Styrene
Concen: 21.028 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:104 Resp: 330216

Ion	Ratio	Lower	Upper
104	100		
78	46.9	38.5	57.7
103	55.0	43.7	65.5



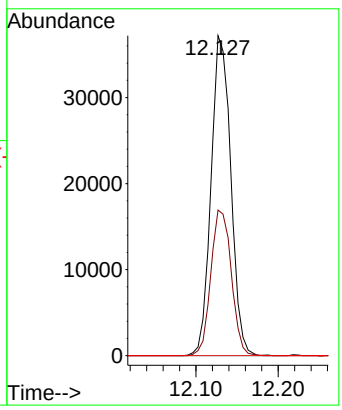


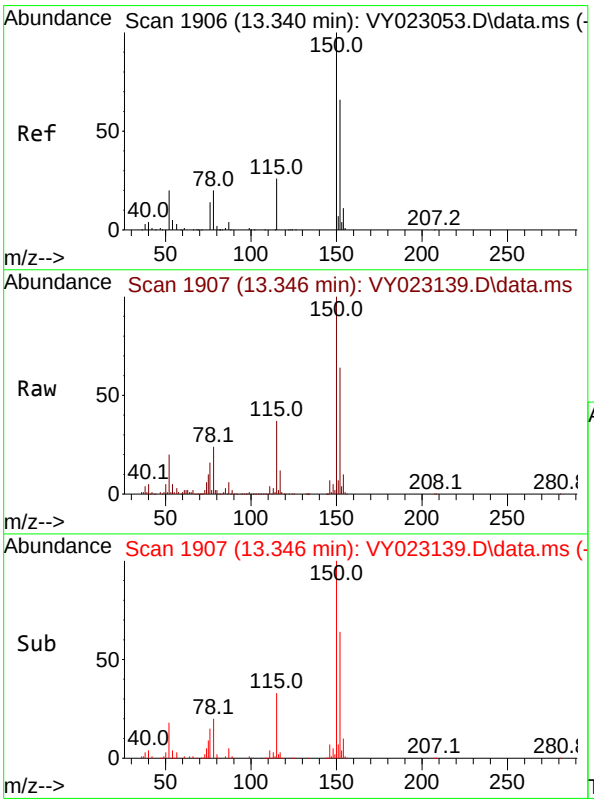
#71
Bromoform
Concen: 20.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:173 Resp: 62105

Ion	Ratio	Lower	Upper
173	100		
175	47.2	23.9	71.7
254	0.0	0.1	0.1#

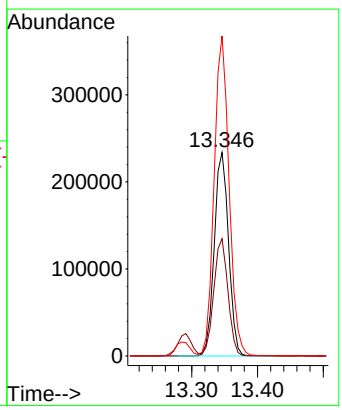


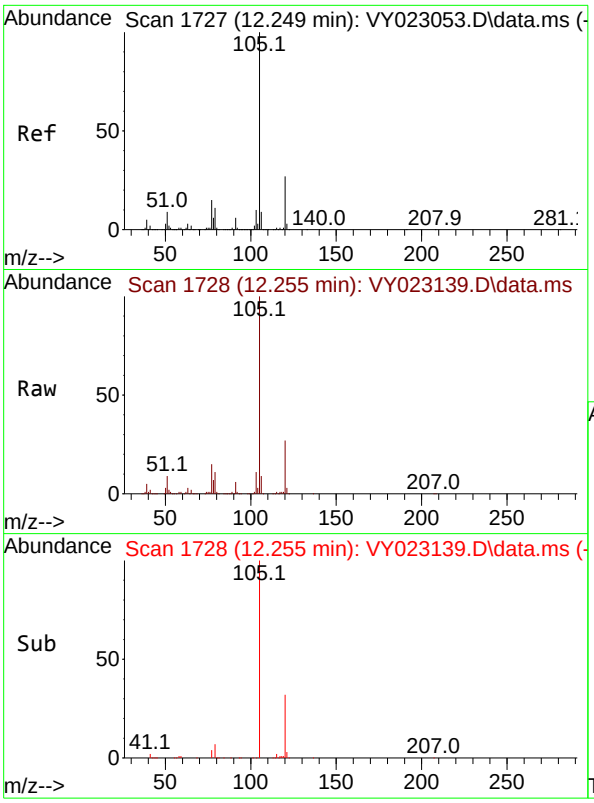


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:152 Resp: 352720

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	164.2	0.0	348.0



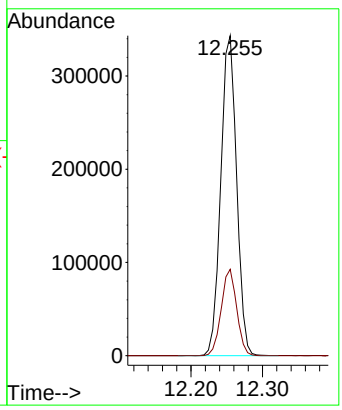


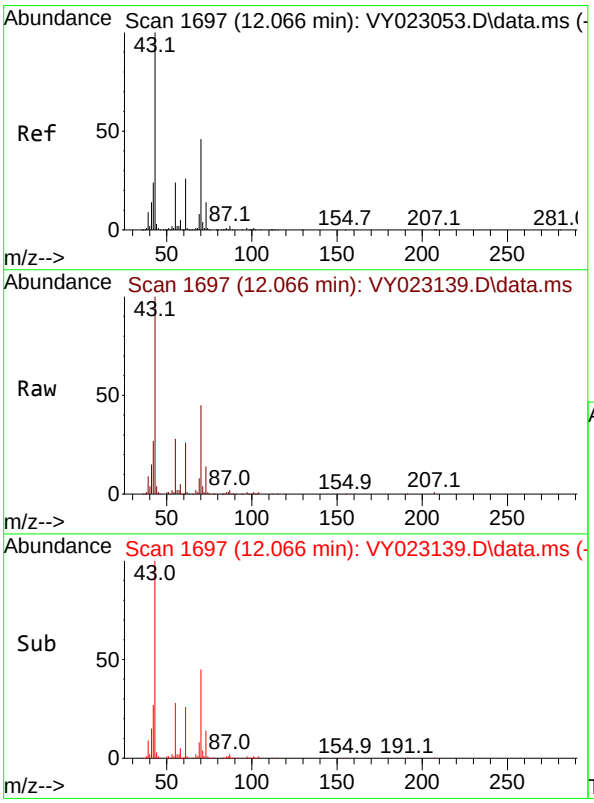
#73
Isopropylbenzene
Concen: 21.185 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:105 Resp: 527385

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.4	40.2

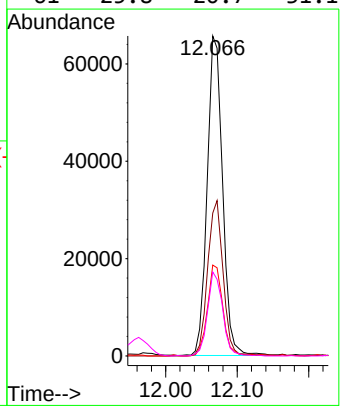


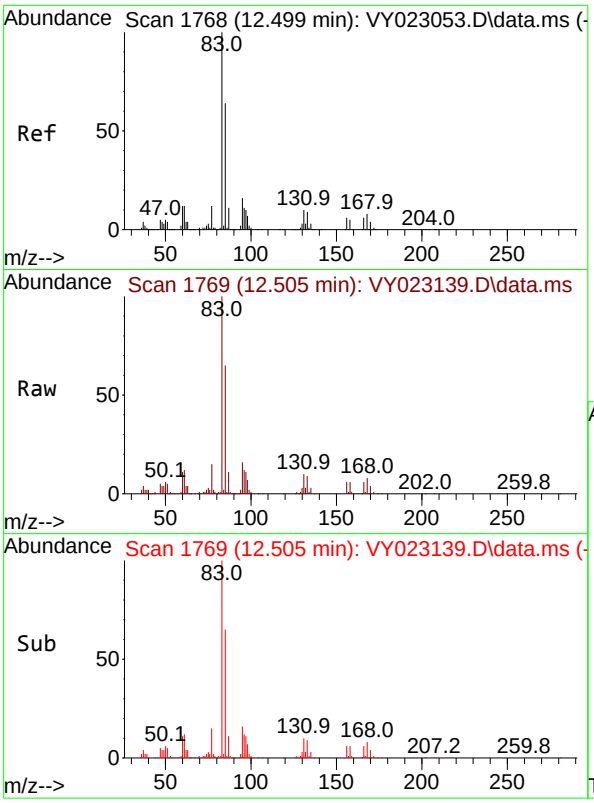


#74
N-amyl acetate
Concen: 18.632 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 98366

Ion	Ratio	Lower	Upper
43	100		
70	48.9	37.5	56.3
55	28.7	20.7	31.1
61	25.8	20.7	31.1



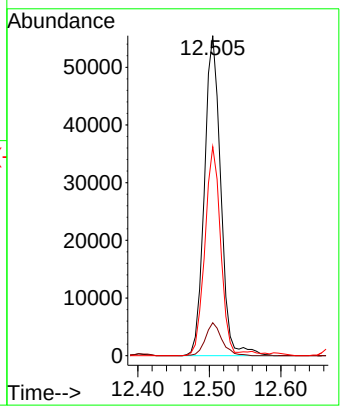


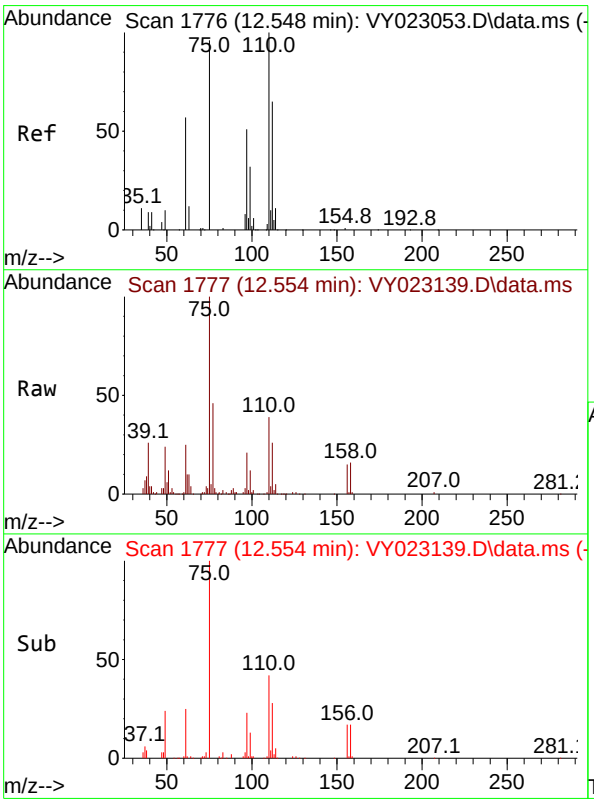
#75
1,1,2,2-Tetrachloroethane
Concen: 20.694 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 83 Resp: 87962

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.1	15.3
85	62.7	31.8	95.3

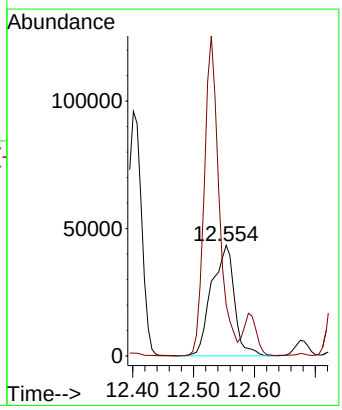


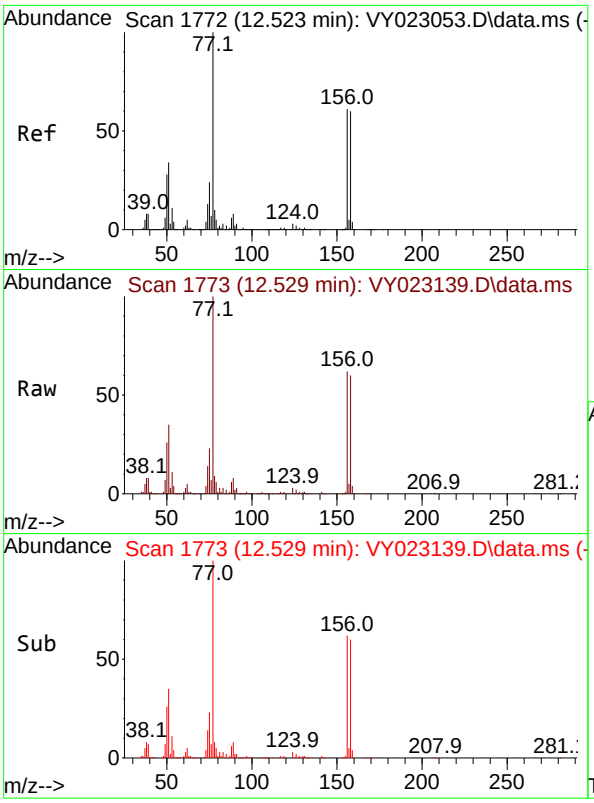


#76
1,2,3-Trichloropropane
Concen: 33.119 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 112742

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



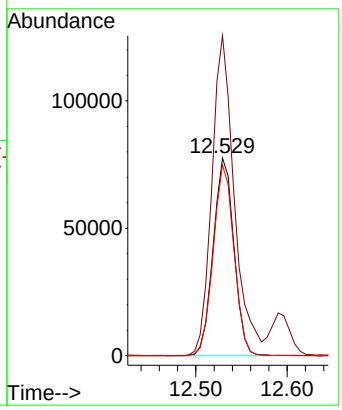


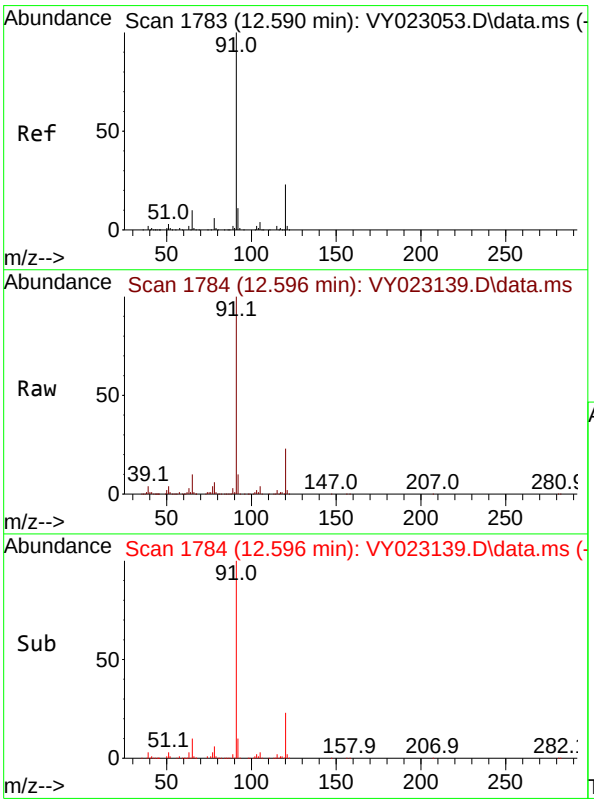
#77
Bromobenzene
Concen: 20.592 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:156 Resp: 122298

Ion	Ratio	Lower	Upper
156	100		
77	174.9	88.1	264.4
158	96.4	48.0	144.0

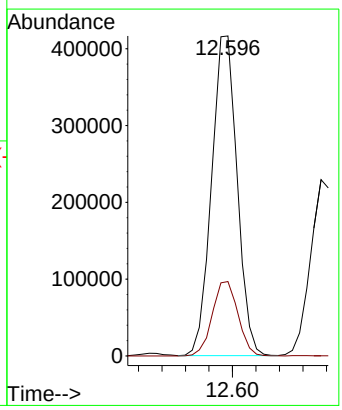


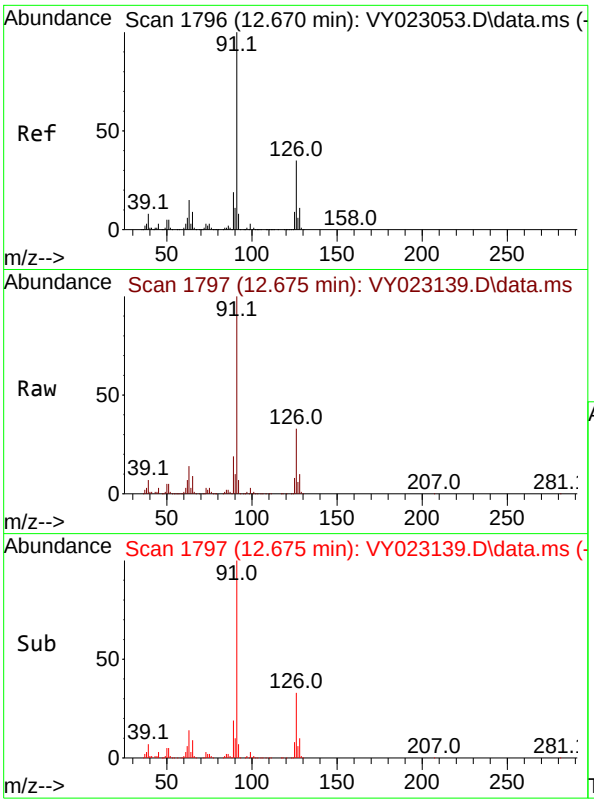


#78
n-propylbenzene
Concen: 21.255 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 629976

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.5	34.5



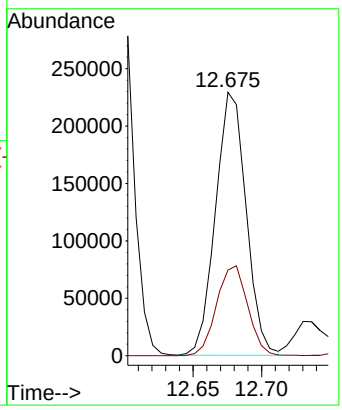


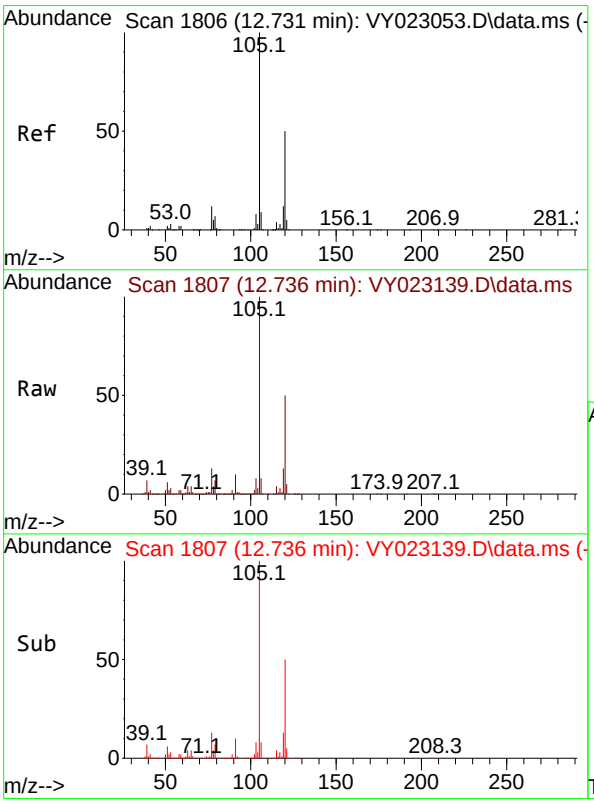
#79
2-Chlorotoluene
Concen: 20.990 ug/l
RT: 12.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 91 Resp: 356441

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

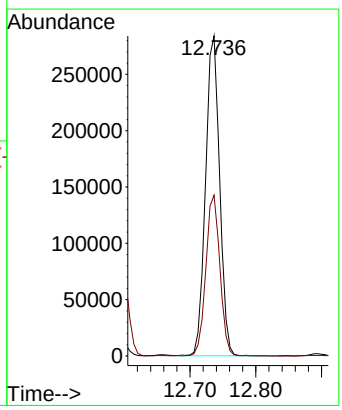


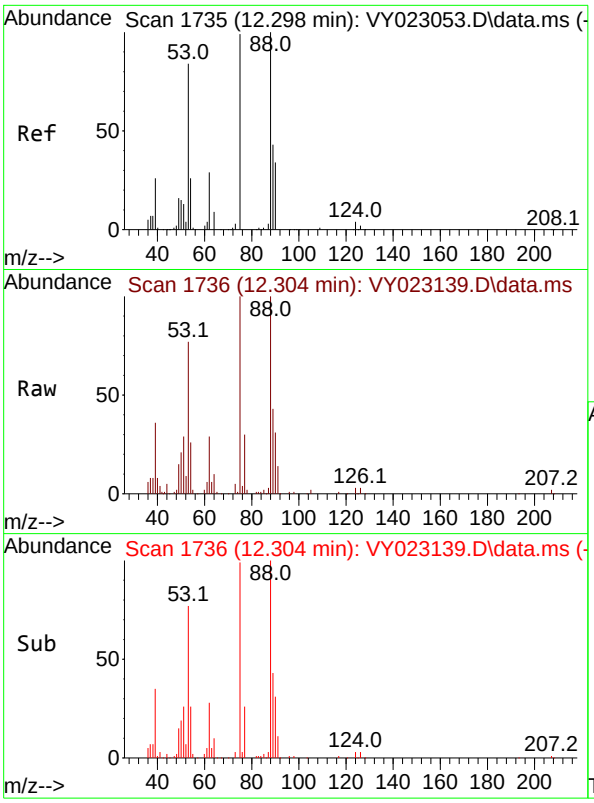


#80
1,3,5-Trimethylbenzene
Concen: 21.022 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 422945

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4



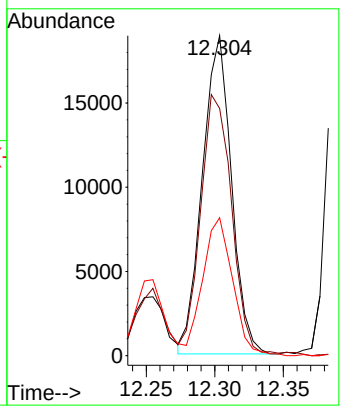


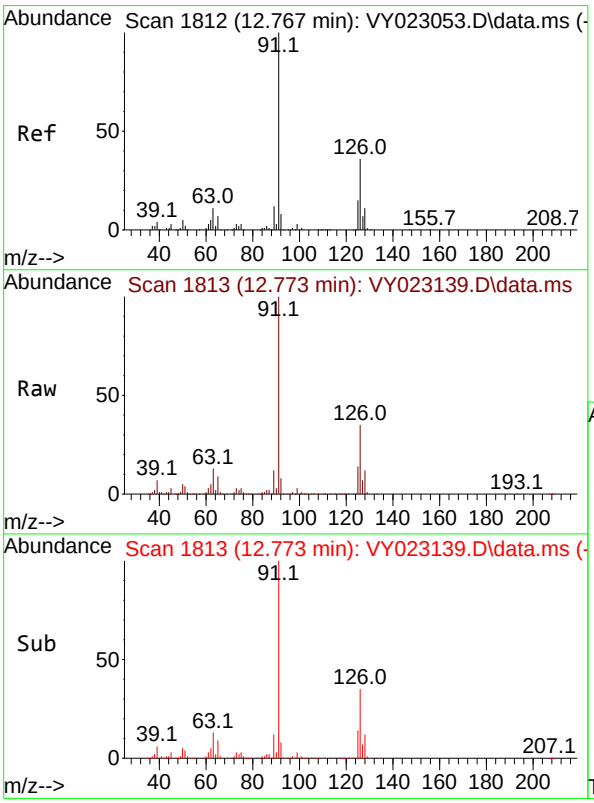
#81
trans-1,4-Dichloro-2-butene
Concen: 19.838 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 75 Resp: 27897

Ion	Ratio	Lower	Upper
75	100		
53	88.5	70.8	106.2
89	44.3	38.1	57.1

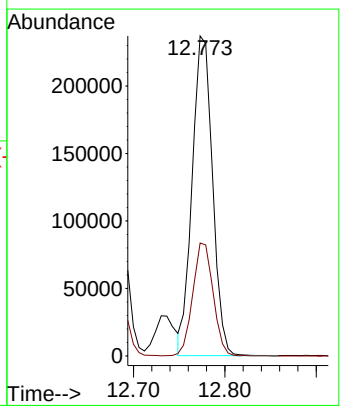


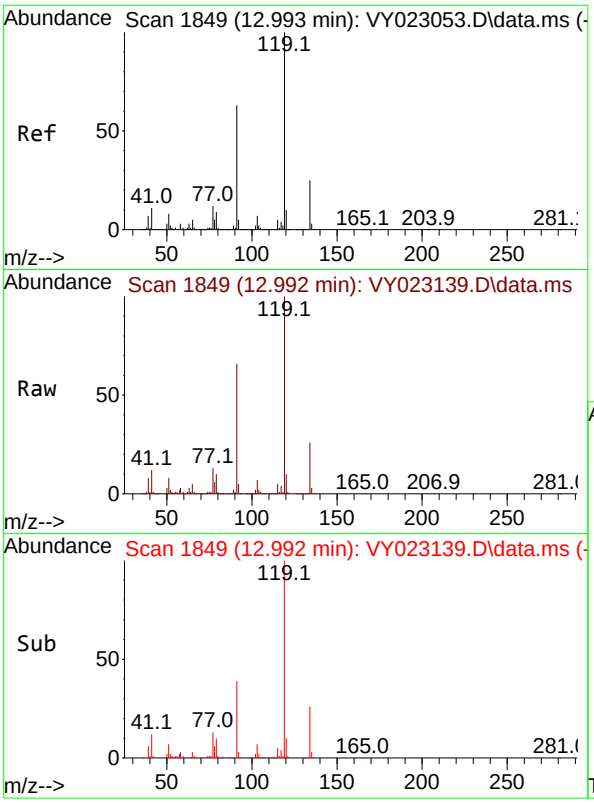


#82
4-Chlorotoluene
Concen: 20.803 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 366476

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.3	52.0



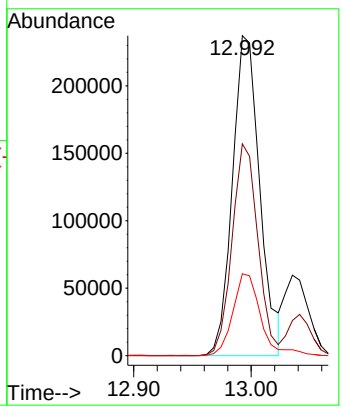


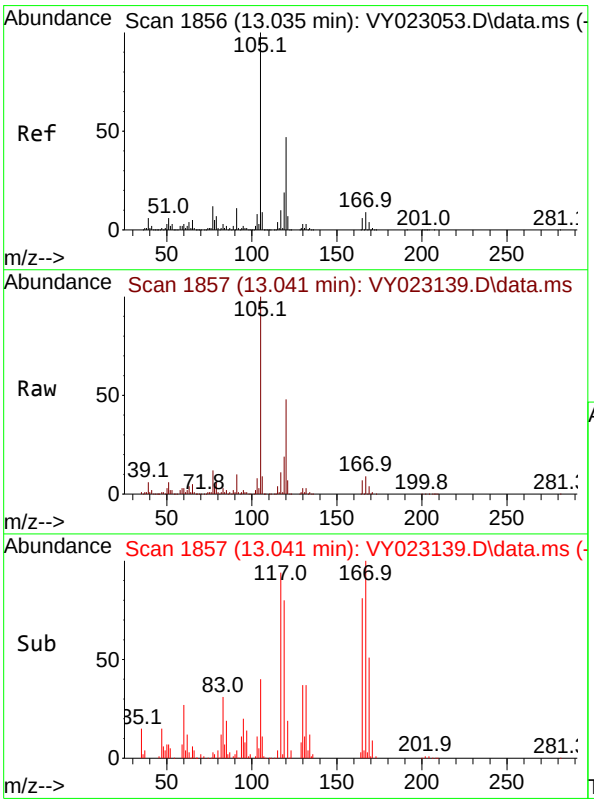
#83
tert-Butylbenzene
Concen: 21.122 ug/l
RT: 12.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:119 Resp: 383813

Ion	Ratio	Lower	Upper
119	100		
91	62.5	31.6	94.8
134	26.1	12.9	38.7

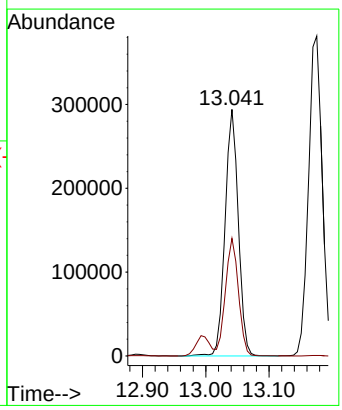


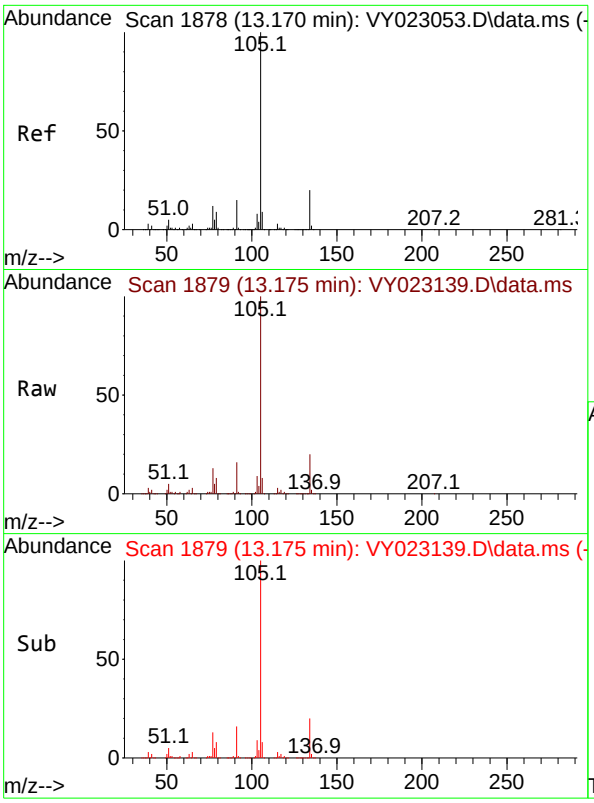


#84
1,2,4-Trimethylbenzene
Concen: 21.298 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 426567

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0



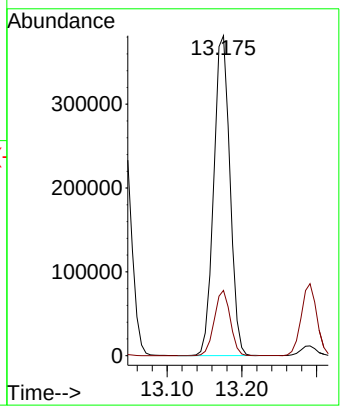


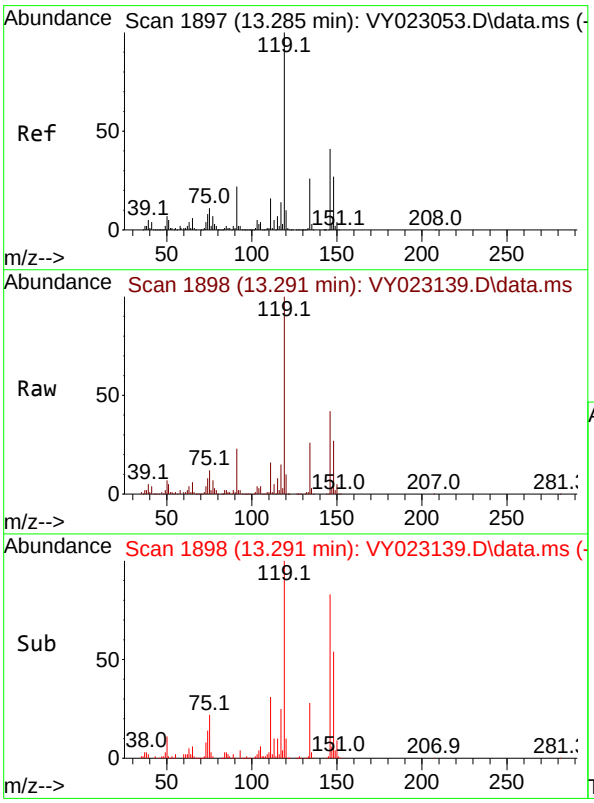
#85
sec-Butylbenzene
Concen: 21.463 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:105 Resp: 572911

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

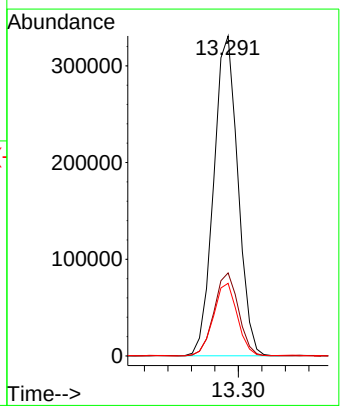


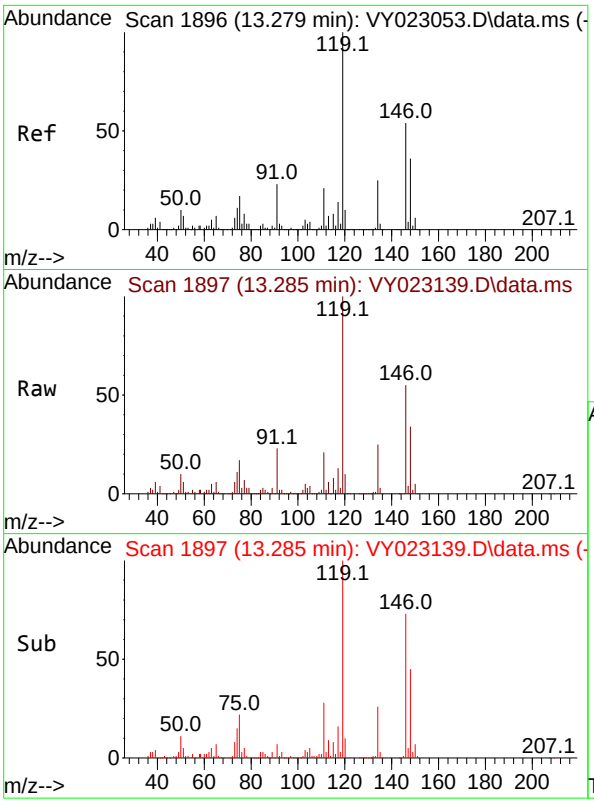


#86
p-Isopropyltoluene
Concen: 21.375 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 473600

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.6
91	22.3	11.3	33.8



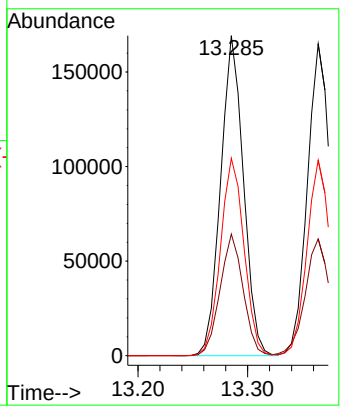


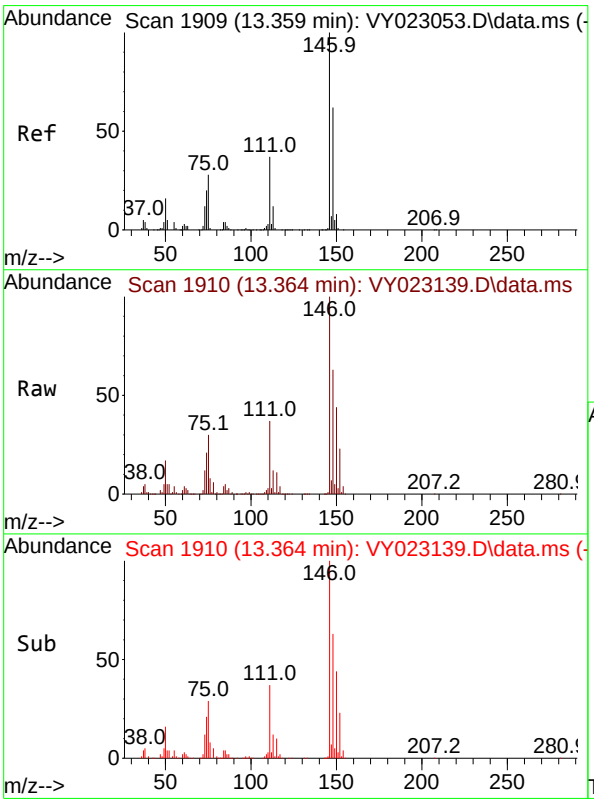
#87
1,3-Dichlorobenzene
Concen: 20.938 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:146 Resp: 245224

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.6	58.7
148	63.6	32.5	97.5

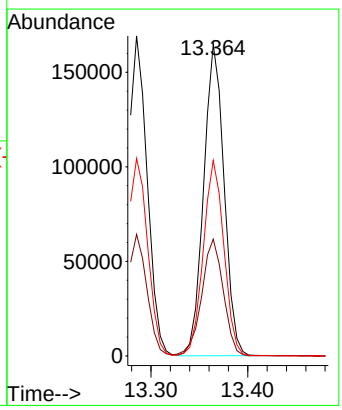


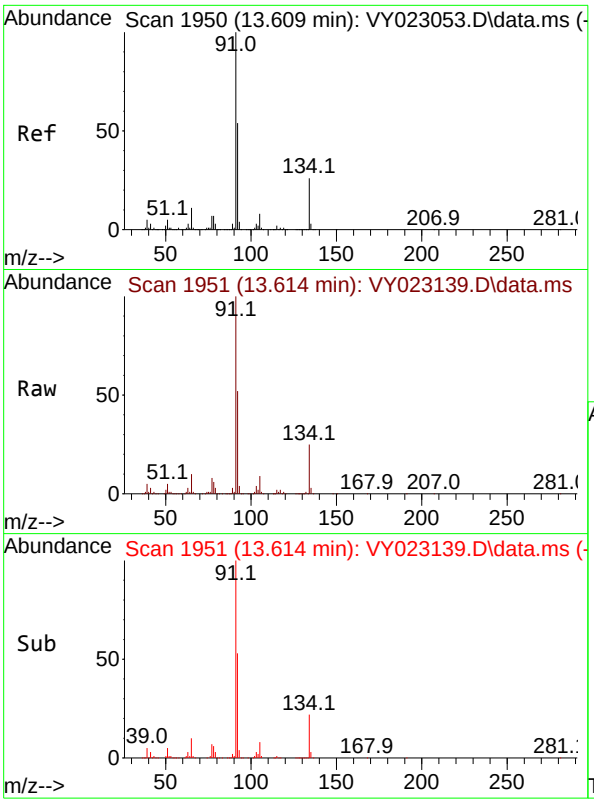


#88
1,4-Dichlorobenzene
Concen: 20.829 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:146 Resp: 241992

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.1	57.1
148	63.2	31.6	94.7



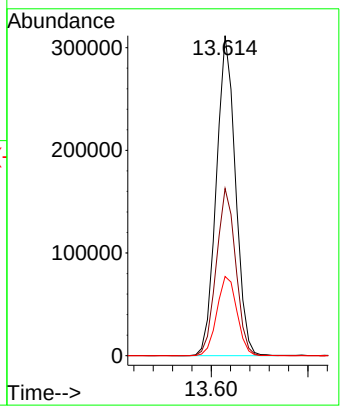


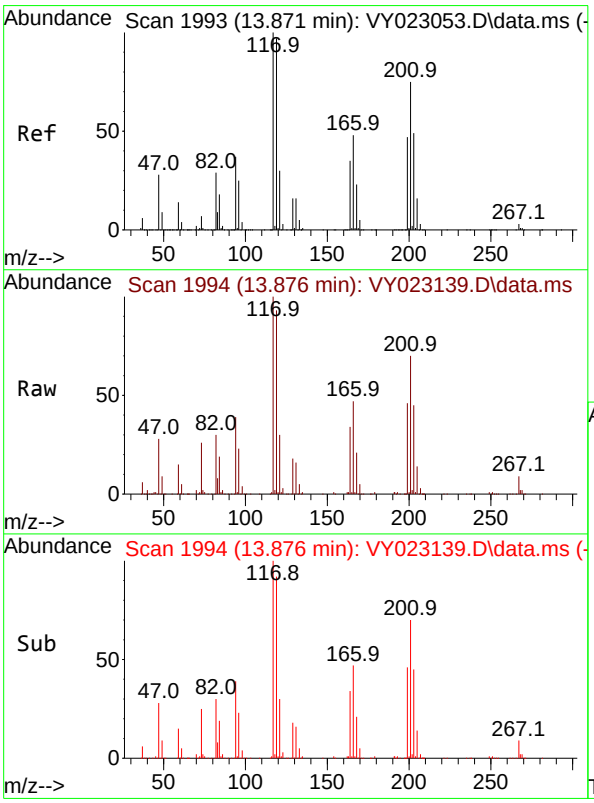
#89
n-Butylbenzene
Concen: 20.989 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 91 Resp: 427124

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	26.0	13.2	39.5

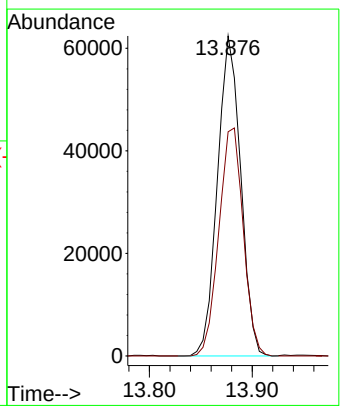


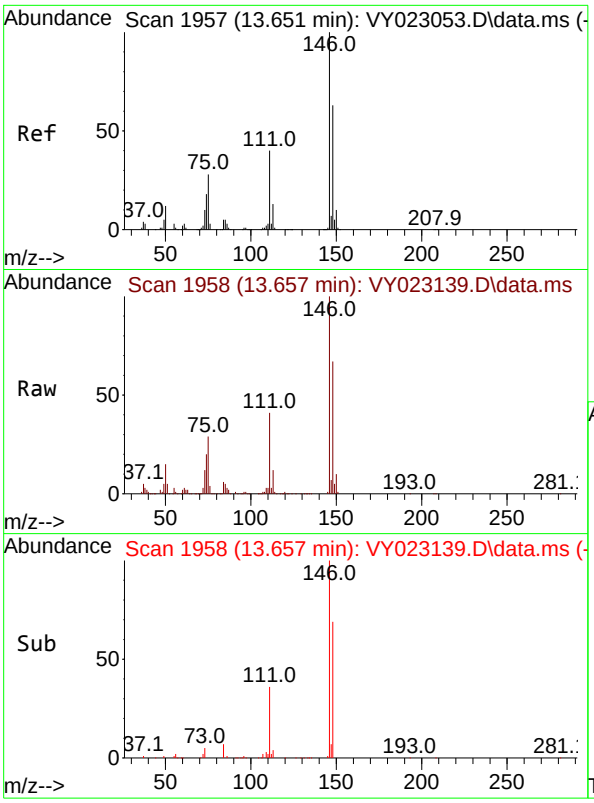


#90
Hexachloroethane
Concen: 21.595 ug/l
RT: 13.876 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 97949

Ion	Ratio	Lower	Upper
117	100		
201	74.7	38.4	115.1



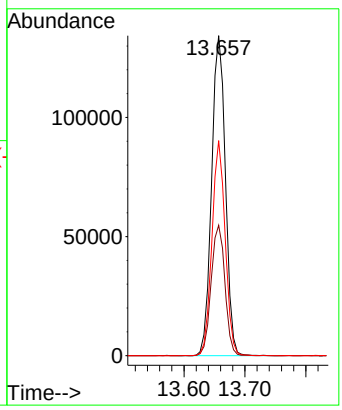


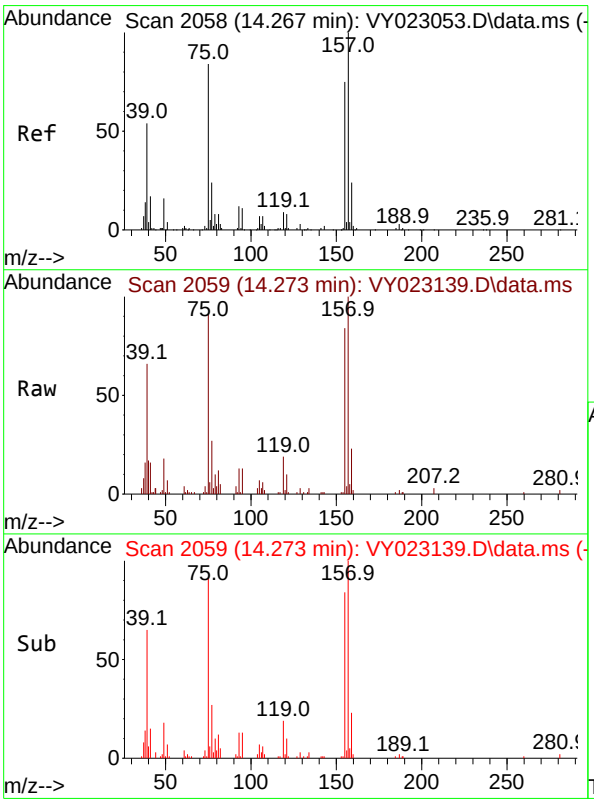
#91
1,2-Dichlorobenzene
Concen: 20.524 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:146 Resp: 210816

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	64.5	32.2	96.6

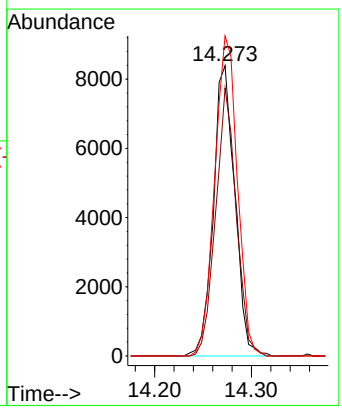


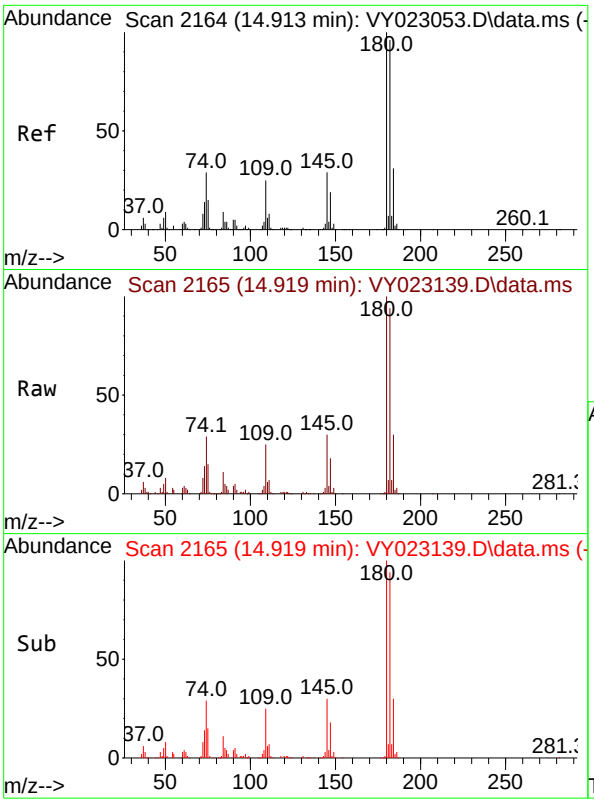


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.499 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 12905

Ion	Ratio	Lower	Upper
75	100		
155	88.5	43.9	131.6
157	116.6	57.2	171.6



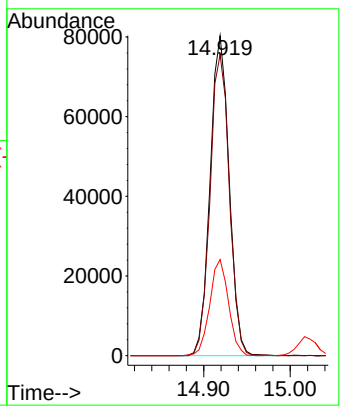


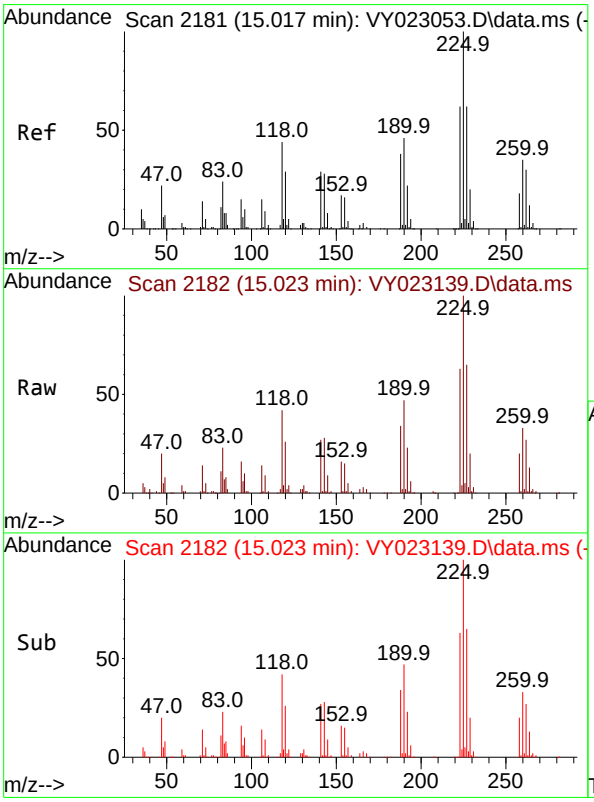
#93
1,2,4-Trichlorobenzene
Concen: 20.157 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:180 Resp: 122439

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.8	140.4
145	29.7	14.4	43.4

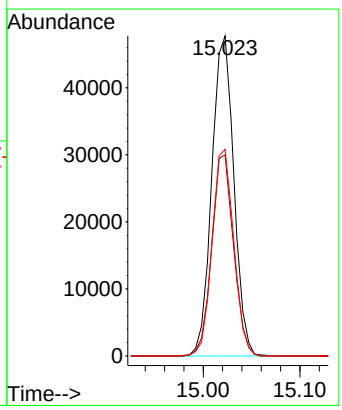


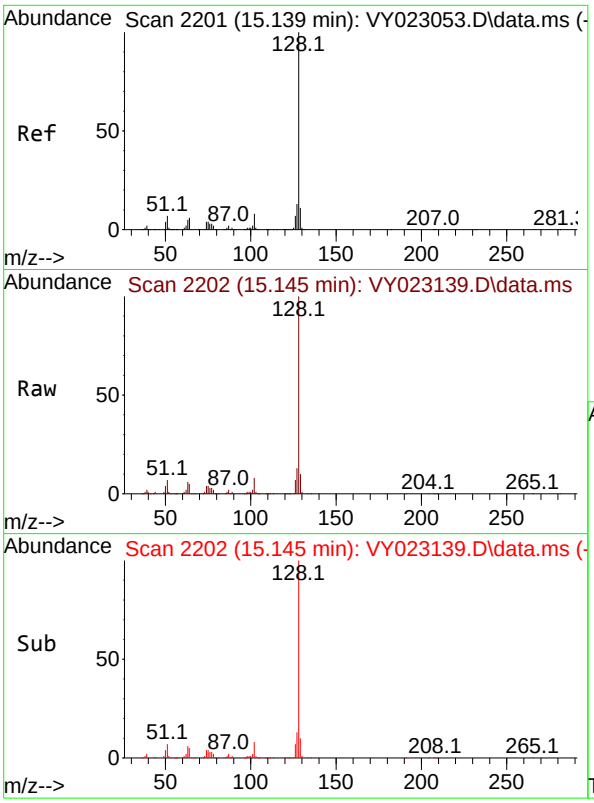


#94
Hexachlorobutadiene
Concen: 21.149 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:225 Resp: 75487

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.3	93.8
227	63.6	31.5	94.5



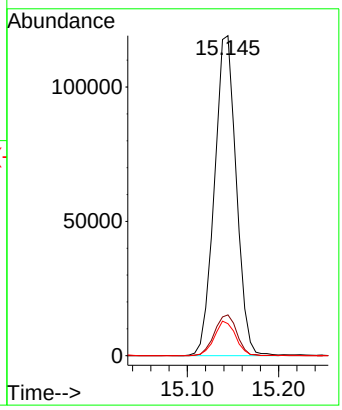


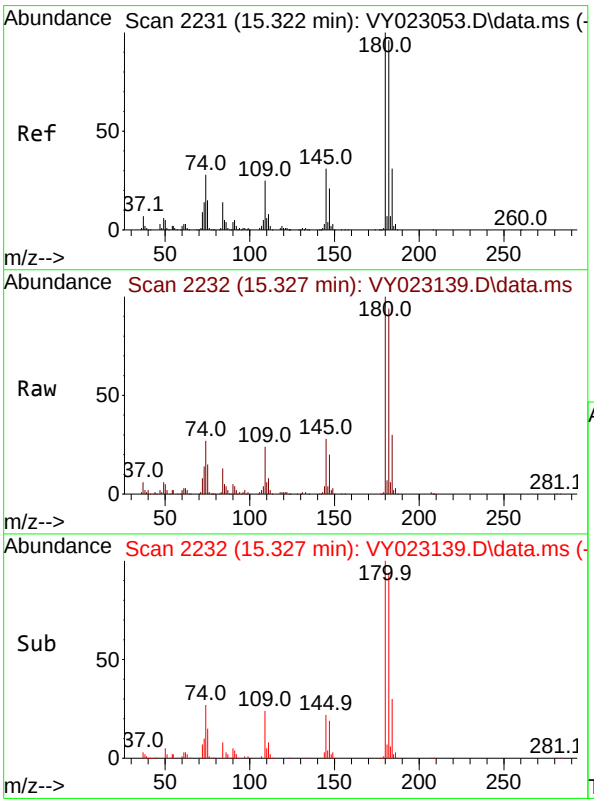
#95
Naphthalene
Concen: 19.124 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:128 Resp: 198080

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.6	9.0	13.4

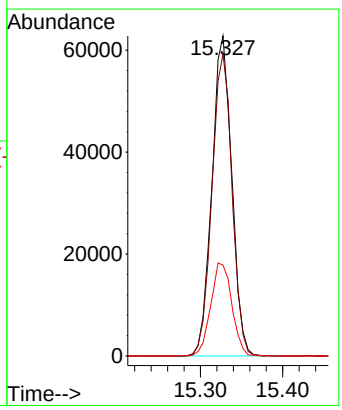




#96
1,2,3-Trichlorobenzene
Concen: 20.115 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 105286

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.7
145	30.9	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	453917	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	726912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	647238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	333557	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	213375	49.322	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.640%			
35) Dibromofluoromethane	7.634	113	217058	49.903	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.800%			
50) Toluene-d8	10.103	98	864097	50.853	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.700%			
62) 4-Bromofluorobenzene	12.401	95	274917	50.308	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	145094	39.160	ug/l	98
3) Chloromethane	2.068	50	276875	46.137	ug/l	97
4) Vinyl Chloride	2.202	62	354948	47.848	ug/l	100
5) Bromomethane	2.592	94	278901	50.342	ug/l	100
6) Chloroethane	2.732	64	250831	50.860	ug/l	100
7) Trichlorofluoromethane	3.049	101	405455	44.950	ug/l	99
8) Diethyl Ether	3.452	74	111202	46.597	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	200633	45.085	ug/l	99
10) Methyl Iodide	4.001	142	263764	54.928	ug/l	98
11) Tert butyl alcohol	4.860	59	62641	211.323	ug/l	100
12) 1,1-Dichloroethene	3.787	96	206109	47.120	ug/l	97
13) Acrolein	3.647	56	48005	110.581	ug/l	97
14) Allyl chloride	4.378	41	288345	44.800	ug/l	97
15) Acrylonitrile	5.049	53	228651	235.673	ug/l	98
16) Acetone	3.866	43	175331	187.073	ug/l	97
17) Carbon Disulfide	4.104	76	657020	46.066	ug/l	100
18) Methyl Acetate	4.385	43	140261	50.290	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	538168	47.480	ug/l	99
20) Methylene Chloride	4.610	84	244646	50.247	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	246365	50.119	ug/l	99
22) Diisopropyl ether	6.018	45	670200	47.919	ug/l	99
23) Vinyl Acetate	5.957	43	1726827	223.289	ug/l	98
24) 1,1-Dichloroethane	5.915	63	423462	49.522	ug/l	99
25) 2-Butanone	6.896	43	268264	210.456	ug/l	97
26) 2,2-Dichloropropane	6.884	77	330025	44.729	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	286353	50.390	ug/l	97
28) Bromochloromethane	7.244	49	168646	49.712	ug/l	96
29) Tetrahydrofuran	7.256	42	176959	223.965	ug/l	96
30) Chloroform	7.421	83	447102	50.699	ug/l	98
31) Cyclohexane	7.701	56	338813	42.047	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	386894	49.443	ug/l	100
36) 1,1-Dichloropropene	7.835	75	308640	47.746	ug/l	99
37) Ethyl Acetate	6.982	43	120682	44.444	ug/l	99
38) Carbon Tetrachloride	7.817	117	341297	48.612	ug/l	99
39) Methylcyclohexane	9.109	83	387997	45.580	ug/l	95
40) Benzene	8.079	78	999546	50.170	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	65626	41.877	ug/l		87
42) 1,2-Dichloroethane	8.158	62	253049	48.835	ug/l		100
43) Isopropyl Acetate	8.195	43	245293	44.694	ug/l		97
44) Trichloroethene	8.865	130	266609	51.782	ug/l		100
45) 1,2-Dichloropropane	9.140	63	228425	49.829	ug/l		99
46) Dibromomethane	9.231	93	131481	49.971	ug/l		99
47) Bromodichloromethane	9.420	83	343279	50.703	ug/l		99
48) Methyl methacrylate	9.219	41	118237	45.021	ug/l		95
49) 1,4-Dioxane	9.225	88	29199	946.444	ug/l		90
51) 4-Methyl-2-Pentanone	9.993	43	656710	231.971	ug/l		98
52) Toluene	10.170	92	647611	51.179	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	296104	48.297	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	353426	48.751	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	176672	50.180	ug/l		98
56) Ethyl methacrylate	10.438	69	217938	48.375	ug/l		98
57) 1,3-Dichloropropane	10.713	76	292293	48.952	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	551100	259.330	ug/l		98
59) 2-Hexanone	10.755	43	435049	225.681	ug/l		100
60) Dibromochloromethane	10.908	129	238623	51.365	ug/l		100
61) 1,2-Dibromoethane	11.011	107	164095	49.588	ug/l		99
64) Tetrachloroethene	10.646	164	323963	56.055	ug/l		98
65) Chlorobenzene	11.438	112	704107	50.434	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.511	131	243596	51.411	ug/l		100
67) Ethyl Benzene	11.517	91	1222605	50.888	ug/l		98
68) m/p-Xylenes	11.627	106	966978	103.051	ug/l		98
69) o-Xylene	11.950	106	455236	51.799	ug/l		99
70) Styrene	11.969	104	763639	53.132	ug/l		98
71) Bromoform	12.127	173	135638	48.980	ug/l	#	99
73) Isopropylbenzene	12.249	105	1161331	49.330	ug/l		99
74) N-amyl acetate	12.066	43	217737	43.613	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	172951	43.025	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	248637	77.236	ug/l	#	100
77) Bromobenzene	12.529	156	273466	48.690	ug/l		98
78) n-propylbenzene	12.590	91	1387452	49.502	ug/l		99
79) 2-Chlorotoluene	12.676	91	784149	48.829	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	954748	50.180	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	57362	43.134	ug/l		99
82) 4-Chlorotoluene	12.773	91	816232	48.995	ug/l		99
83) tert-Butylbenzene	12.993	119	857857	49.921	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	956661	50.510	ug/l		99
85) sec-Butylbenzene	13.170	105	1249164	49.485	ug/l		100
86) p-Isopropyltoluene	13.285	119	1065308	50.842	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	549837	49.644	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	534086	48.611	ug/l		99
89) n-Butylbenzene	13.615	91	957330	49.746	ug/l		99
90) Hexachloroethane	13.877	117	214503	50.008	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	477680	49.177	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	28063	44.839	ug/l		99
93) 1,2,4-Trichlorobenzene	14.913	180	261664	45.553	ug/l		98
94) Hexachlorobutadiene	15.017	225	153359	45.434	ug/l		98
95) Naphthalene	15.139	128	452211	46.168	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	224276	45.311	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
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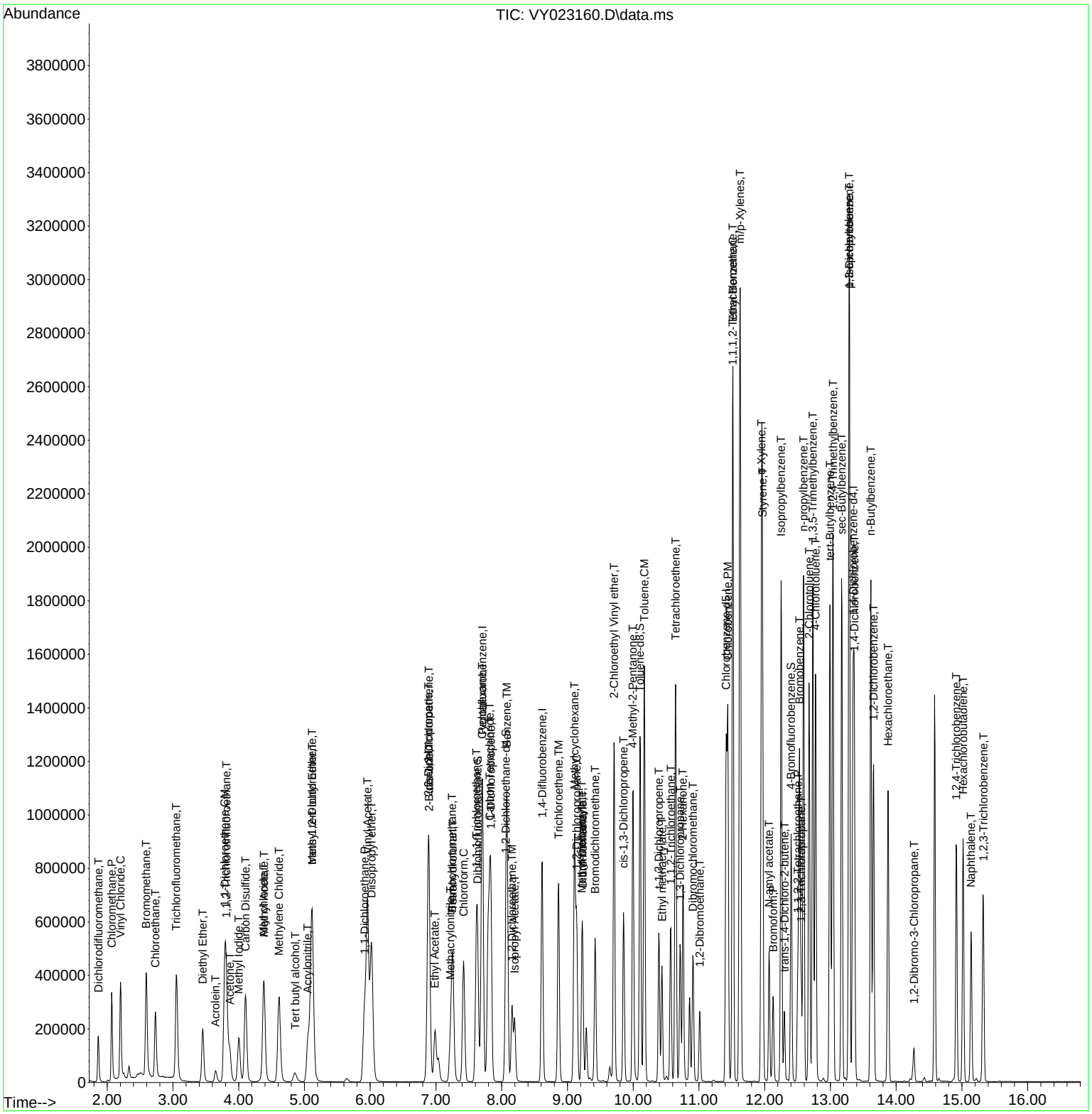
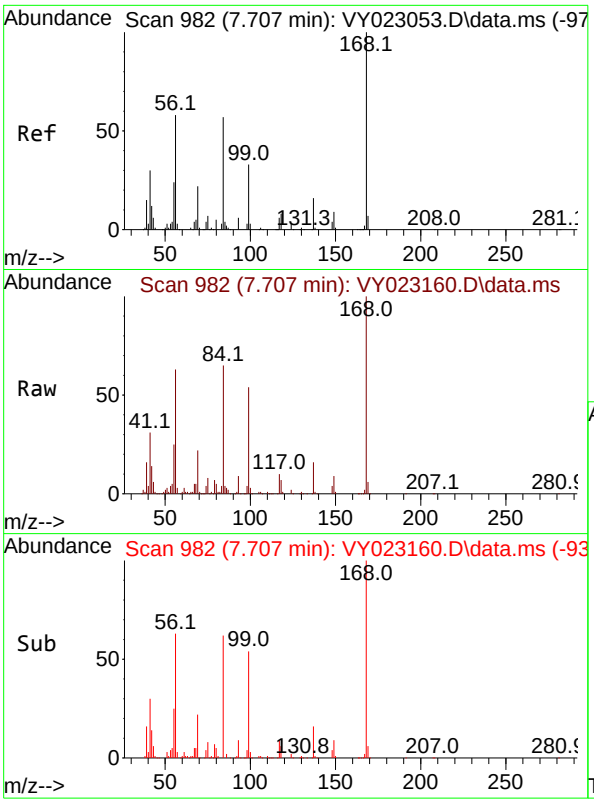
Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



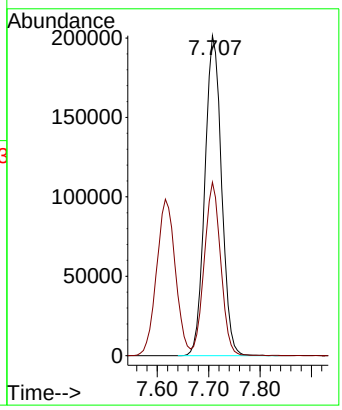


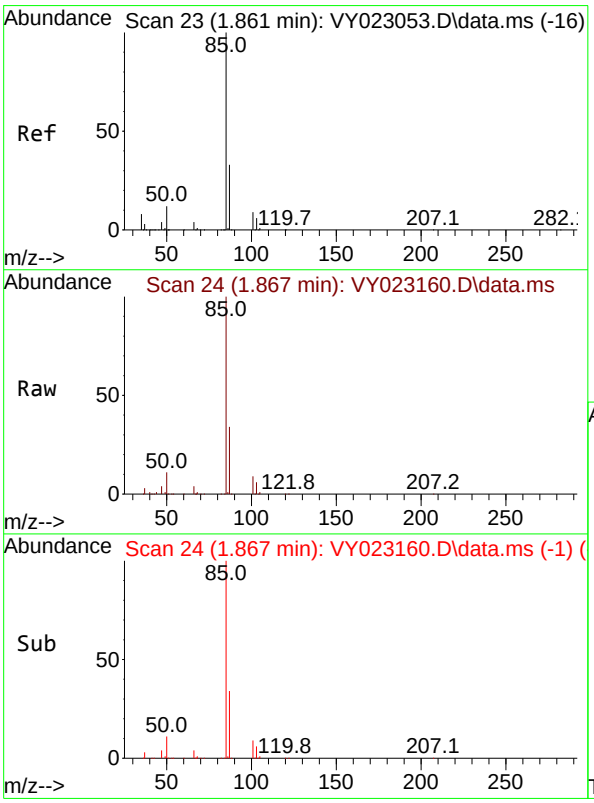
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 453917

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2

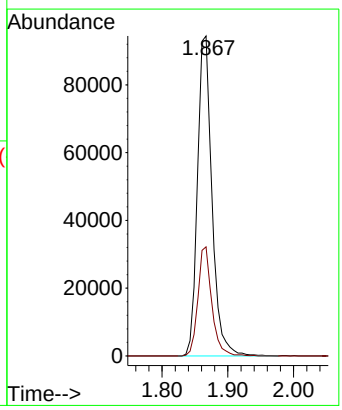


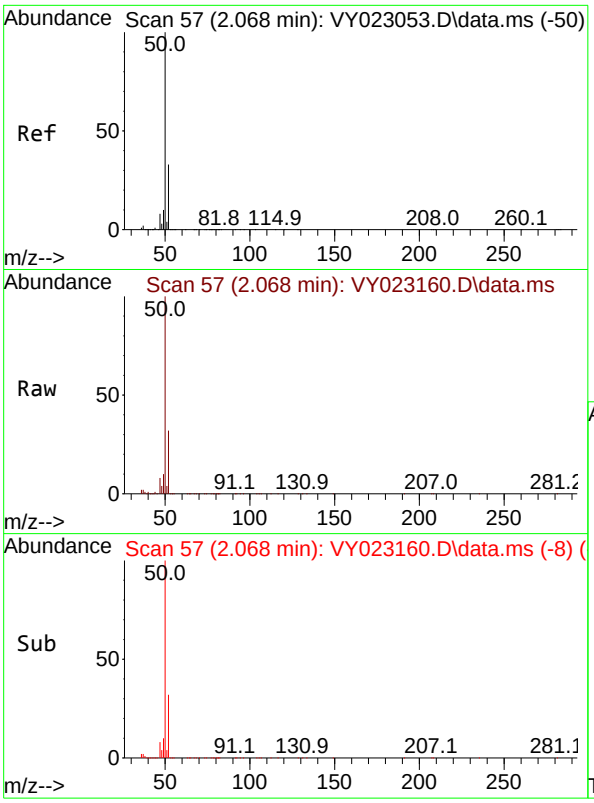


#2
Dichlorodifluoromethane
Concen: 39.160 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 85 Resp: 145094

Ion	Ratio	Lower	Upper
85	100		
87	34.1	16.6	49.8



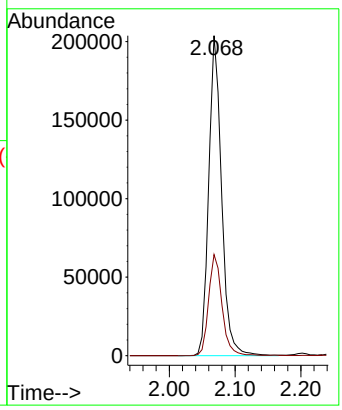


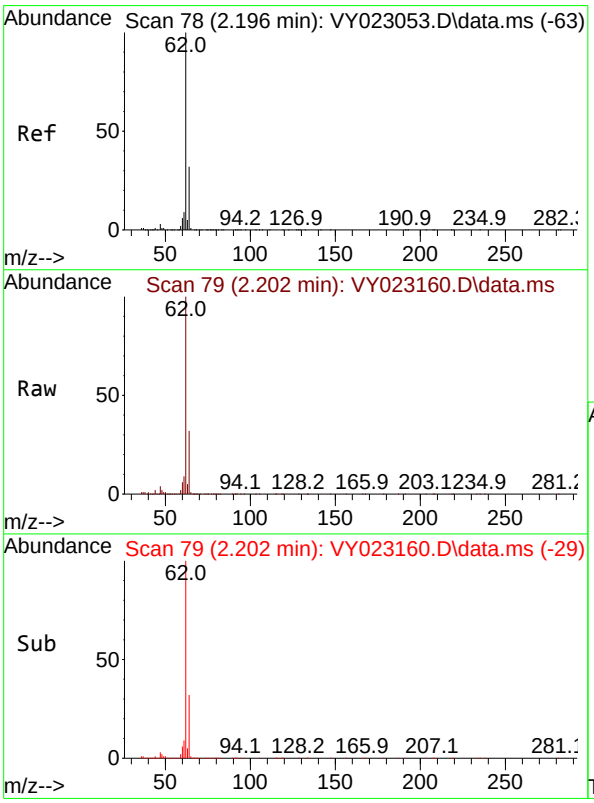
#3
Chloromethane
Concen: 46.137 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 276875

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.7	40.1

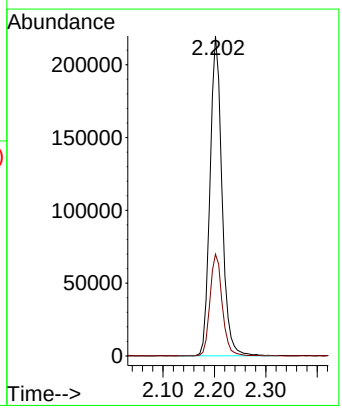


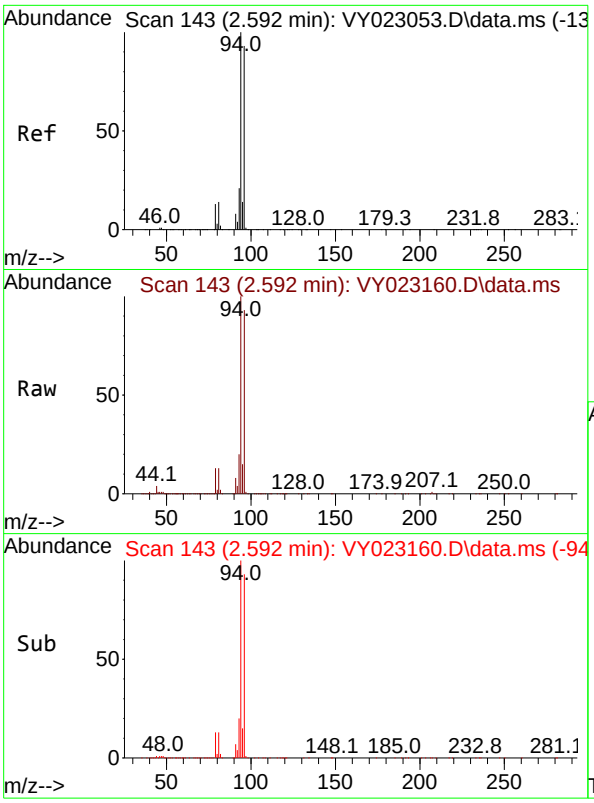


#4
Vinyl Chloride
Concen: 47.848 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 354948

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0



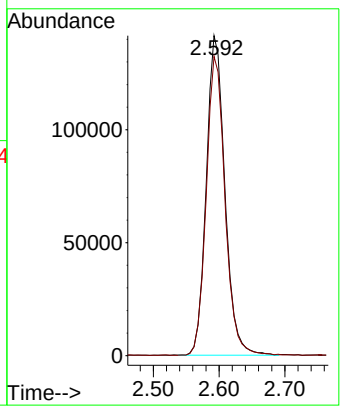


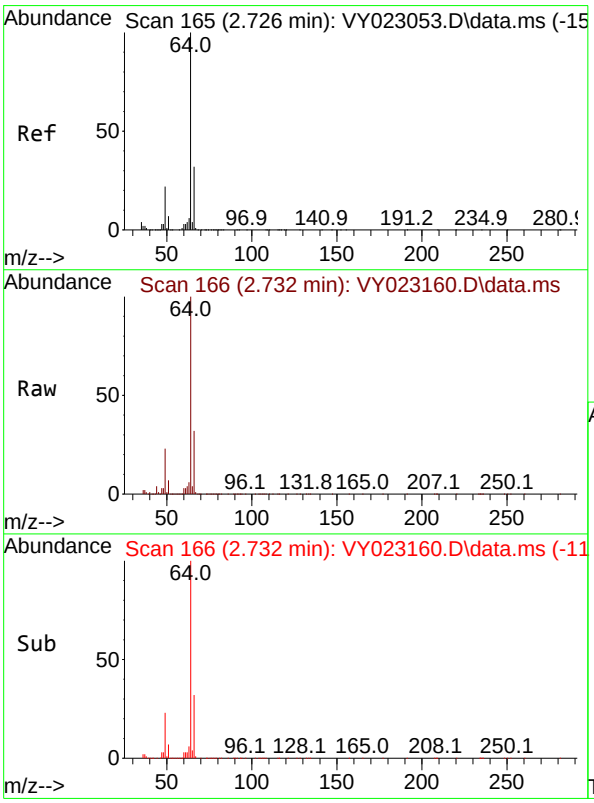
#5
Bromomethane
Concen: 50.342 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 278901

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.6	112.0

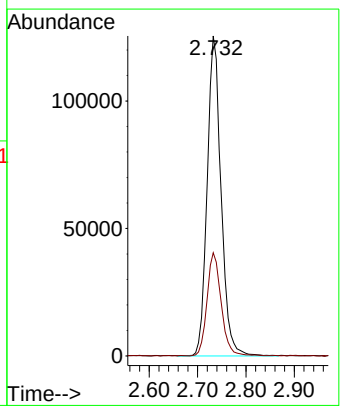


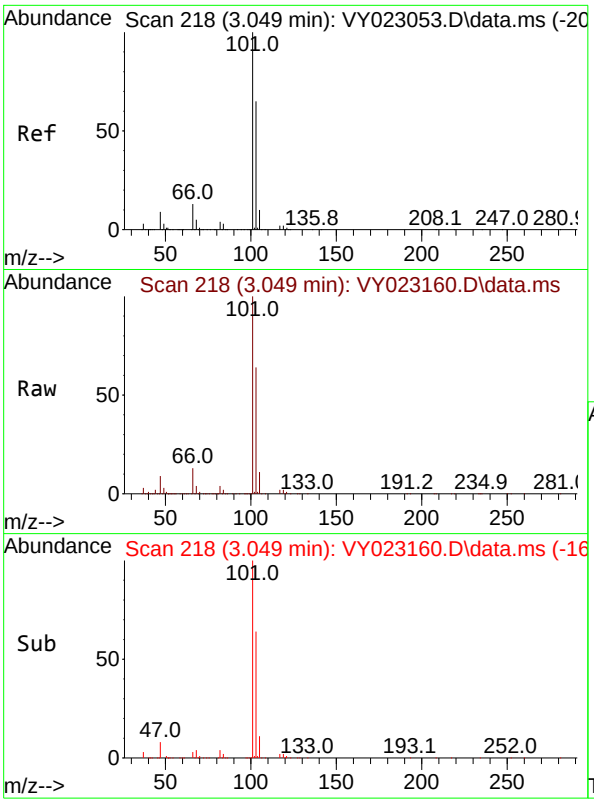


#6
Chloroethane
Concen: 50.860 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 64 Resp: 250831

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6



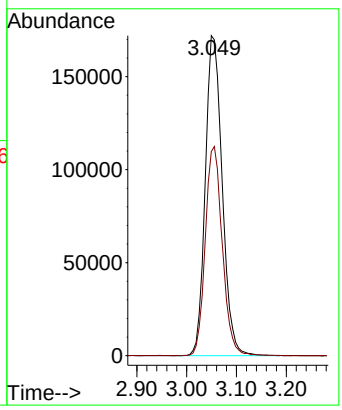


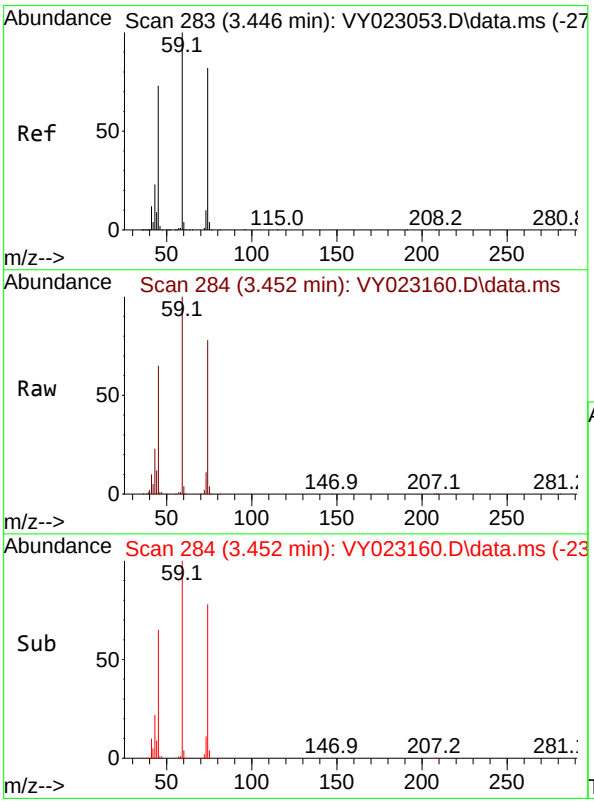
#7
Trichlorofluoromethane
Concen: 44.950 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 405455

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.9	77.9

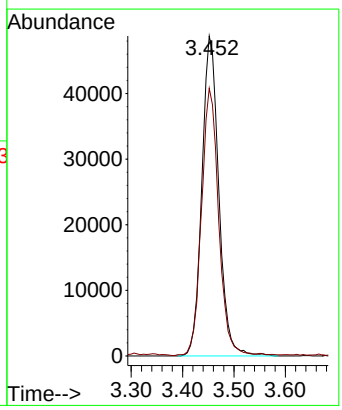


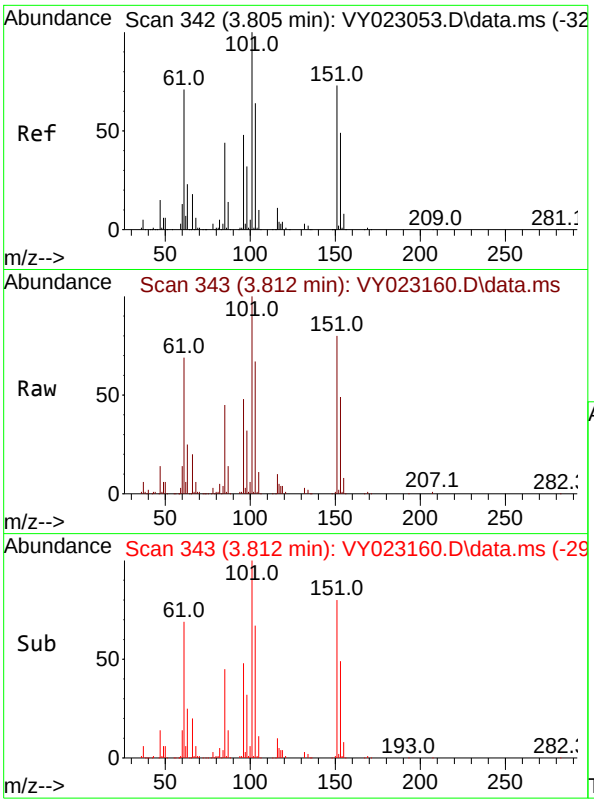


#8
Diethyl Ether
Concen: 46.597 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 74 Resp: 111202

Ion	Ratio	Lower	Upper
74	100		
45	84.5	44.4	133.2



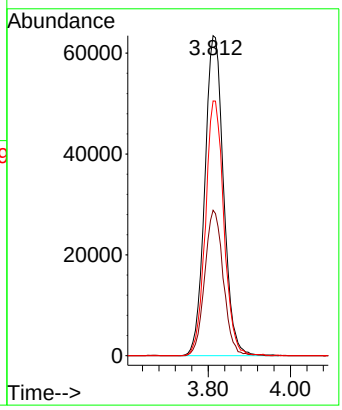


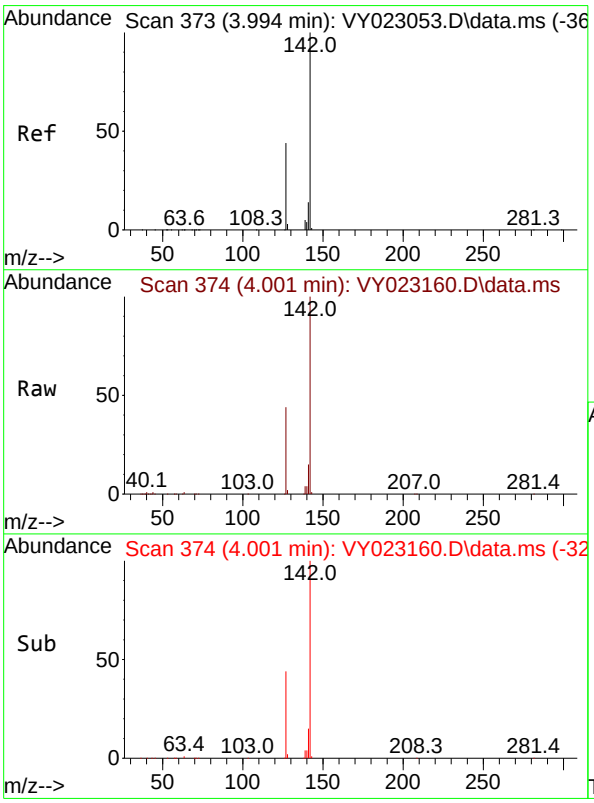
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.085 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 200633

Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.3	54.5
151	78.1	61.5	92.3

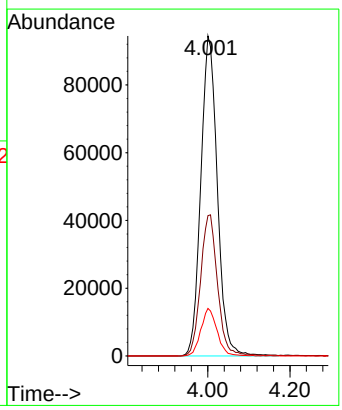


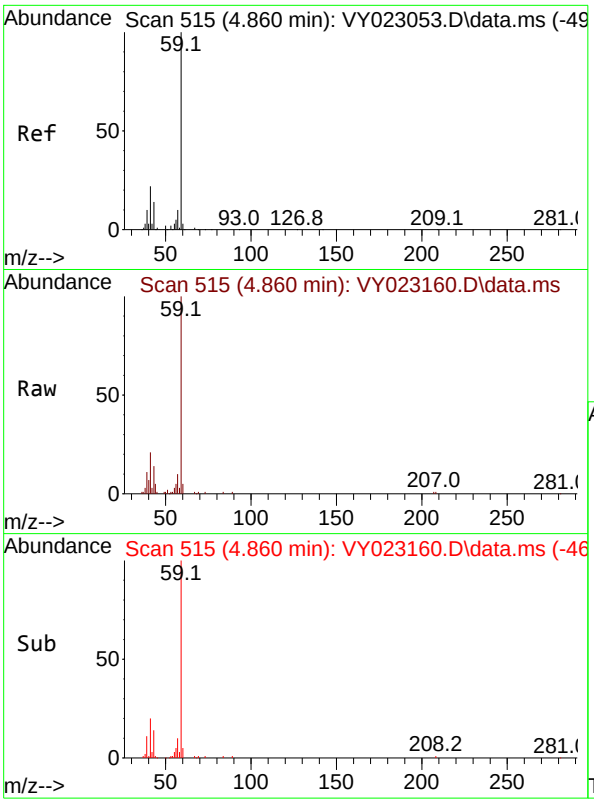


#10
Methyl Iodide
Concen: 54.928 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:142 Resp: 263764

Ion	Ratio	Lower	Upper
142	100		
127	45.1	34.9	52.3
141	14.6	11.3	16.9



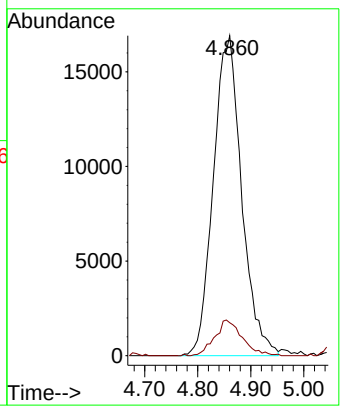


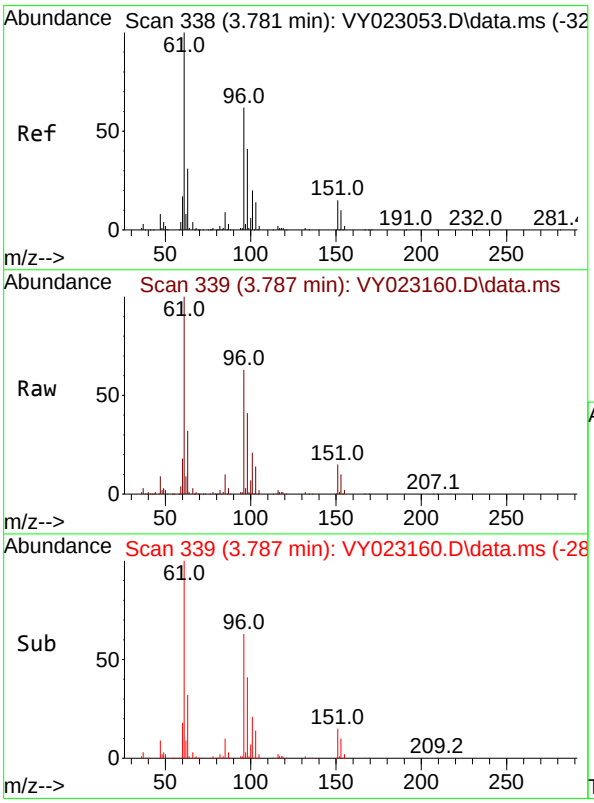
#11
Tert butyl alcohol
Concen: 211.323 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 62641

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

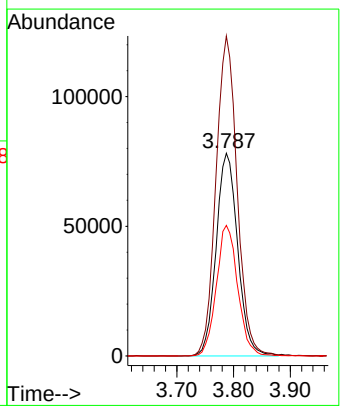


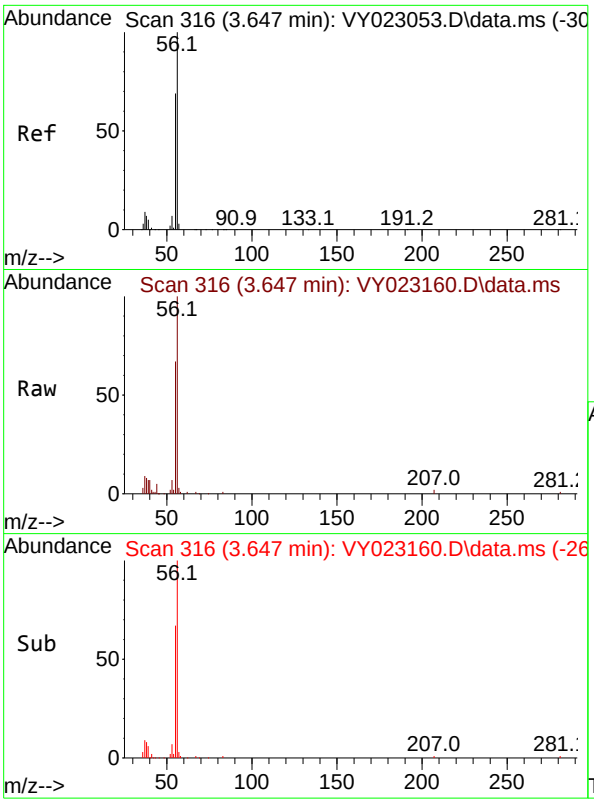


#12
1,1-Dichloroethene
Concen: 47.120 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 206109

Ion	Ratio	Lower	Upper
96	100		
61	157.9	129.4	194.2
98	64.4	52.8	79.2



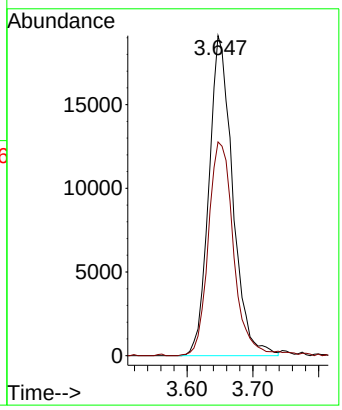


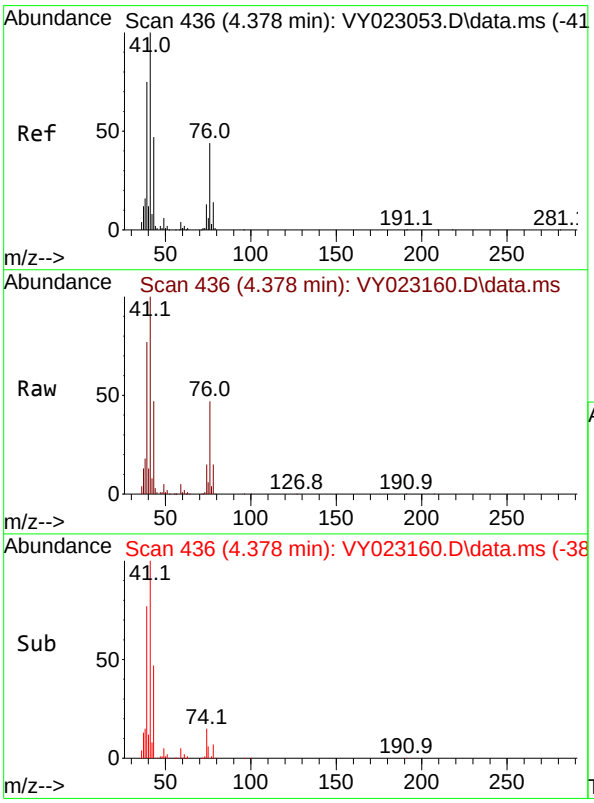
#13
Acrolein
Concen: 110.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 48005

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.2	82.8

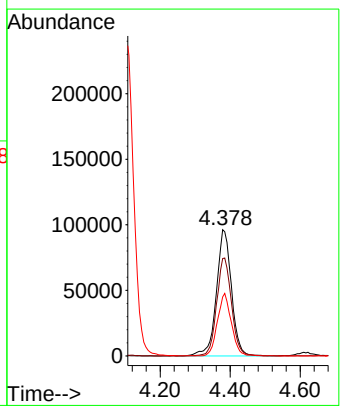


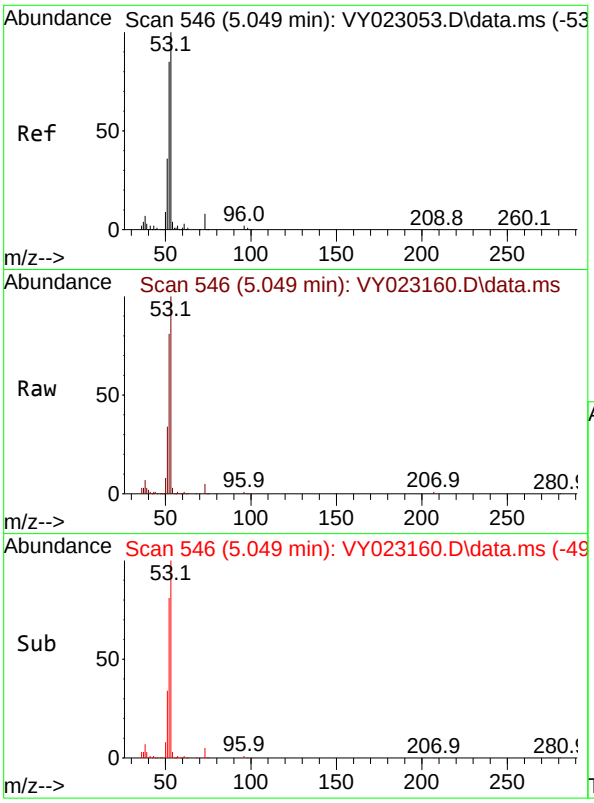


#14
Allyl chloride
Concen: 44.800 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 288345

Ion	Ratio	Lower	Upper
41	100		
39	76.3	59.8	89.6
76	45.6	33.7	50.5



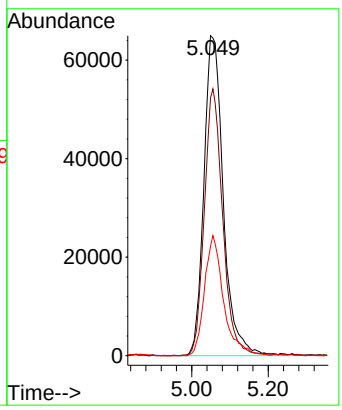


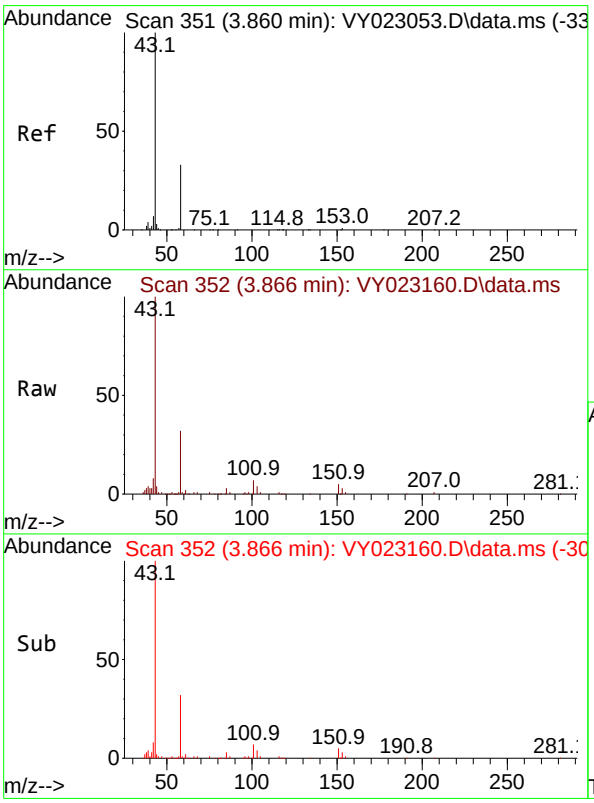
#15
Acrylonitrile
Concen: 235.673 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 228651

Ion	Ratio	Lower	Upper
53	100		
52	79.4	65.3	97.9
51	37.0	29.5	44.3

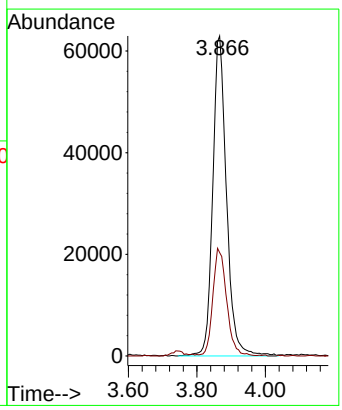


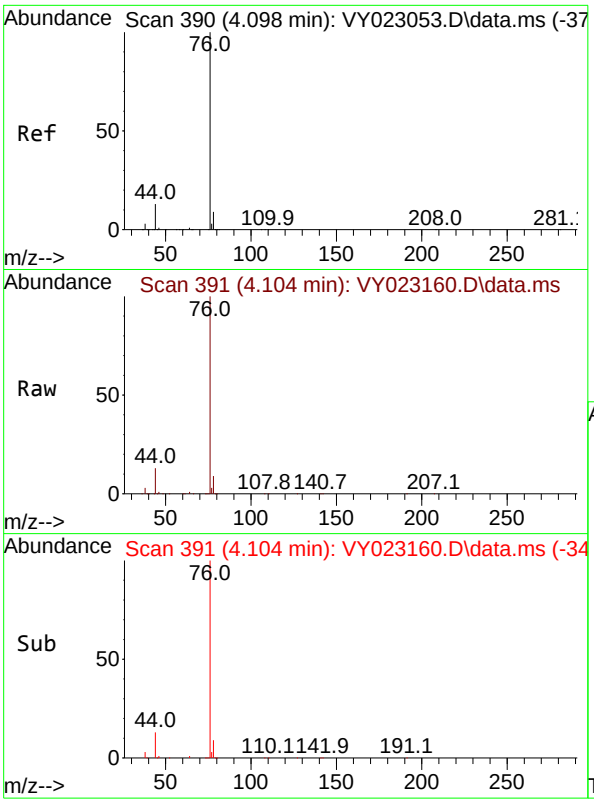


#16
Acetone
Concen: 187.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 175331

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7



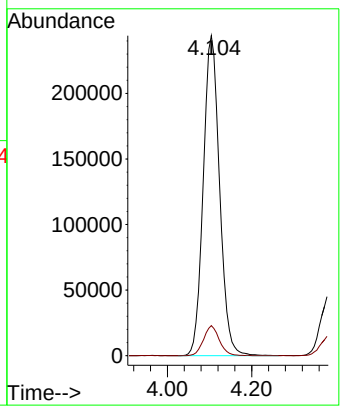


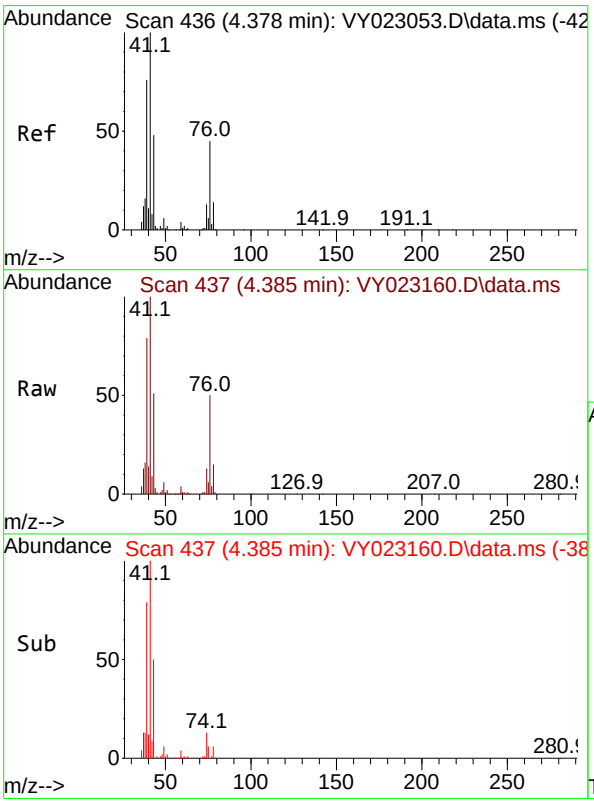
#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 657020

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2

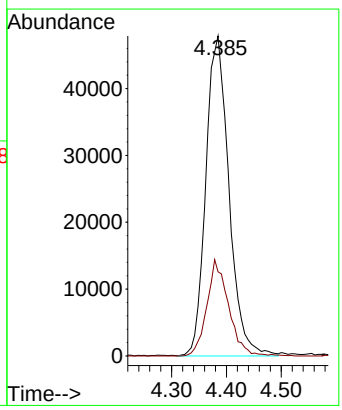


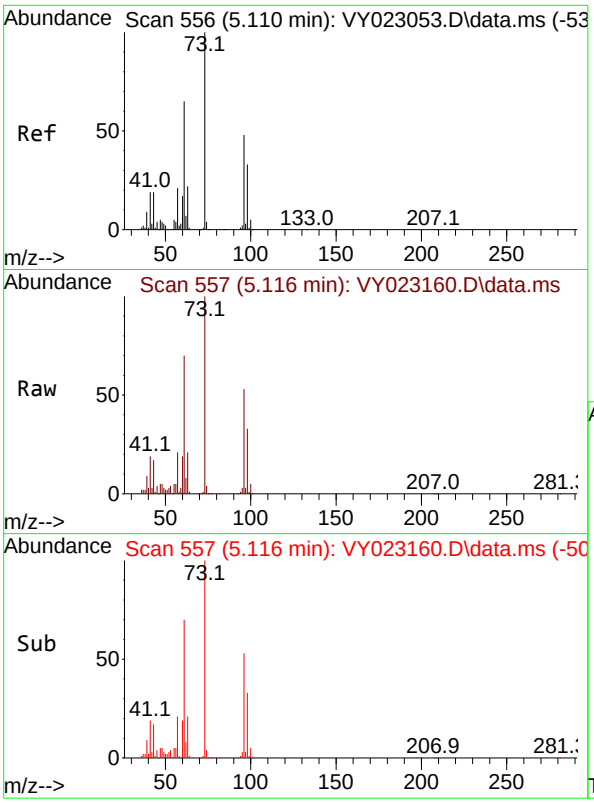


#18
Methyl Acetate
Concen: 50.290 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 140261

Ion	Ratio	Lower	Upper
43	100		
74	28.1	21.2	31.8



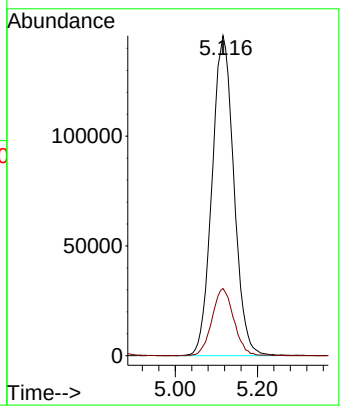


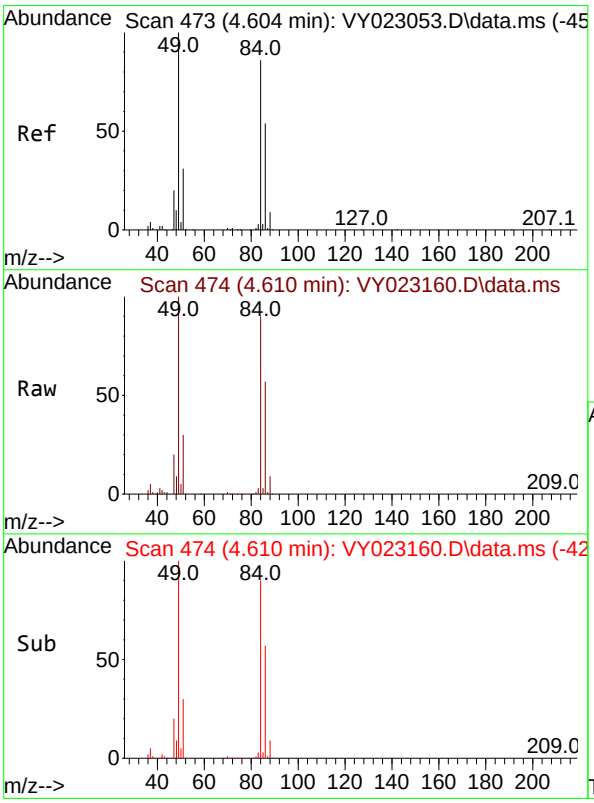
#19
Methyl tert-butyl Ether
Concen: 47.480 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 538168

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.1	25.7

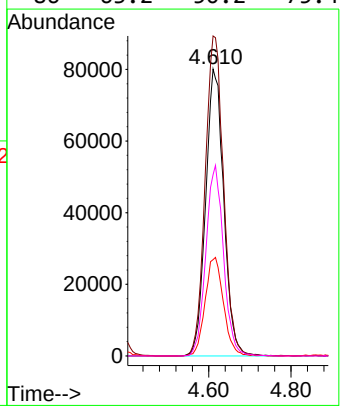


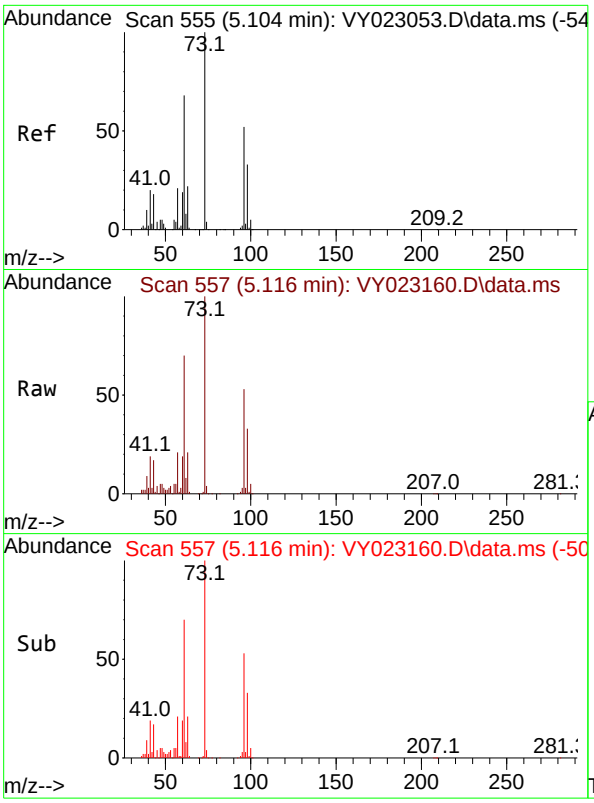


#20
Methylene Chloride
Concen: 50.247 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 84 Resp: 244646

Ion	Ratio	Lower	Upper
84	100		
49	111.5	93.0	139.6
51	33.6	29.0	43.4
86	63.2	50.2	75.4



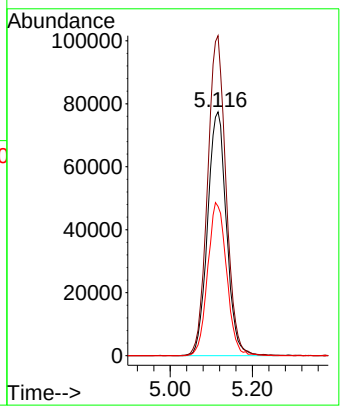


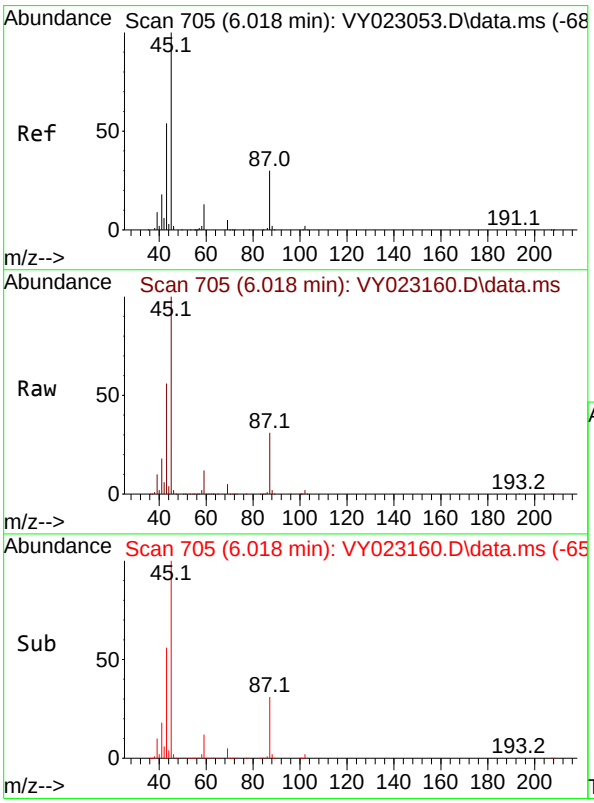
#21
trans-1,2-Dichloroethene
Concen: 50.119 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 246365

Ion	Ratio	Lower	Upper
96	100		
61	131.2	104.8	157.2
98	61.2	50.1	75.1

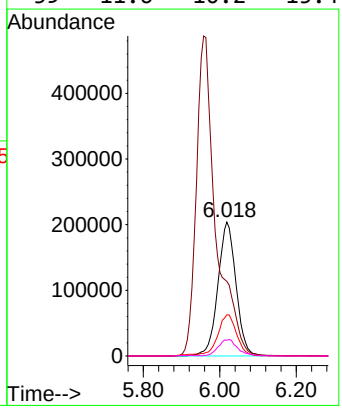


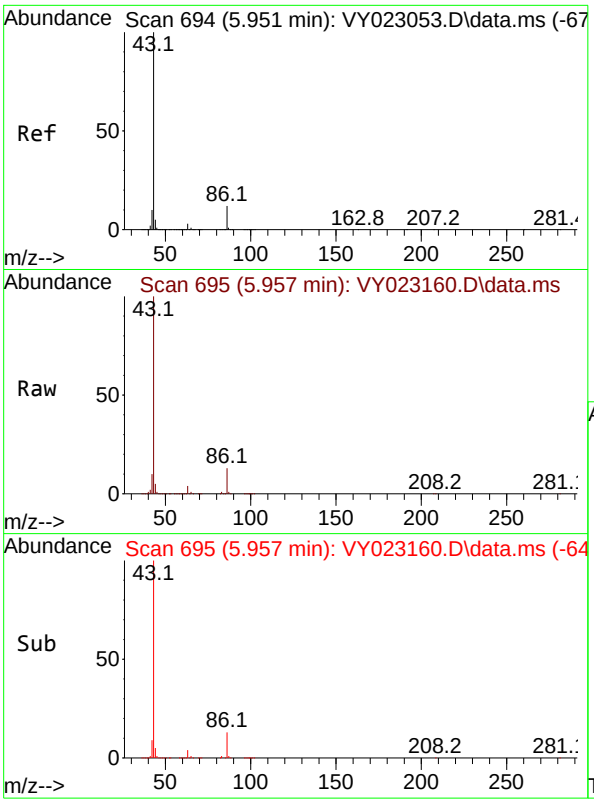


#22
Diisopropyl ether
Concen: 47.919 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 45 Resp: 670200

Ion	Ratio	Lower	Upper
45	100		
43	55.5	43.4	65.0
87	30.7	24.4	36.6
59	11.6	10.2	15.4



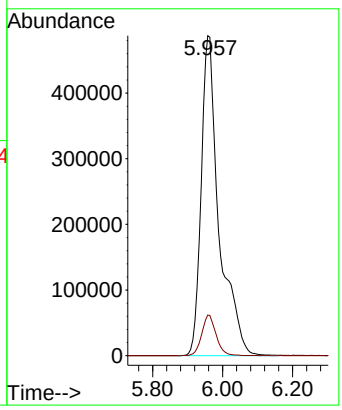


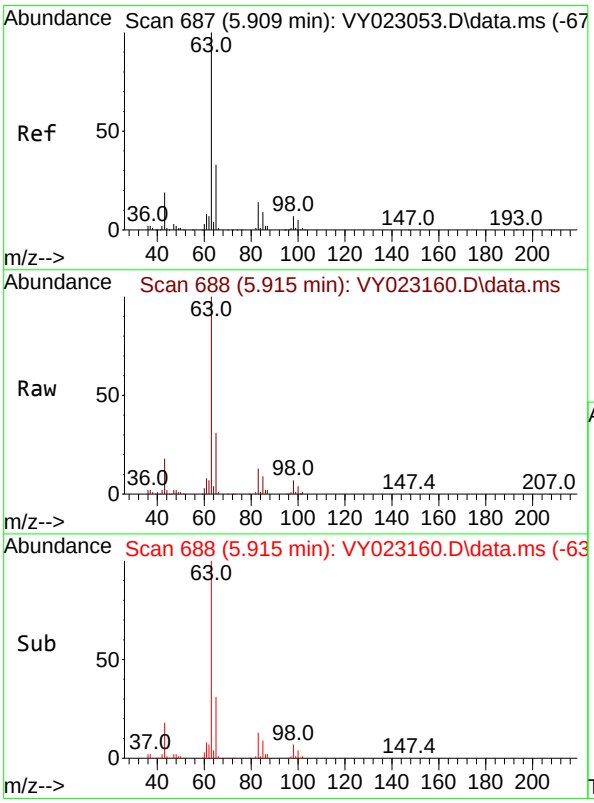
#23
Vinyl Acetate
Concen: 223.289 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1726827

Ion	Ratio	Lower	Upper
43	100		
86	12.7	9.6	14.4

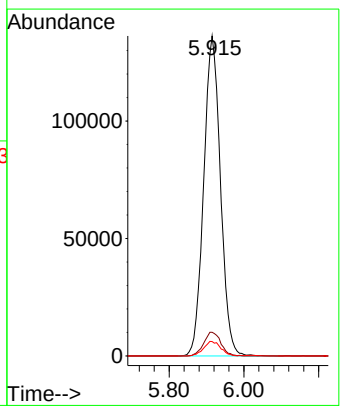


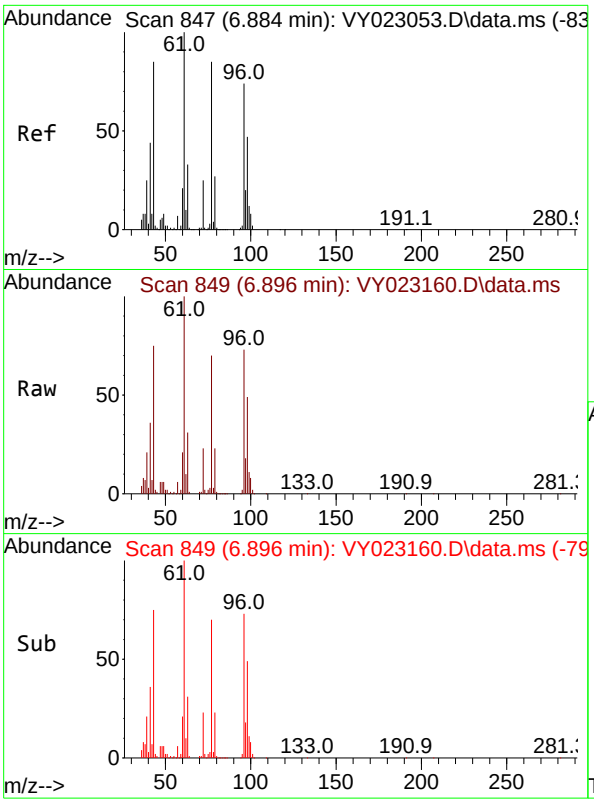


#24
1,1-Dichloroethane
Concen: 49.522 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 423462

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.5	2.4	7.1



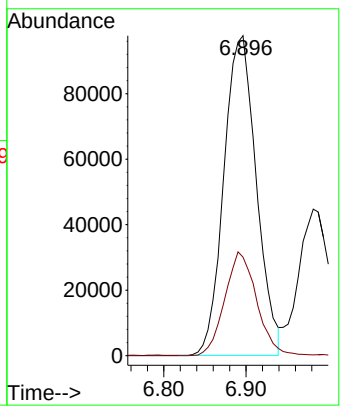


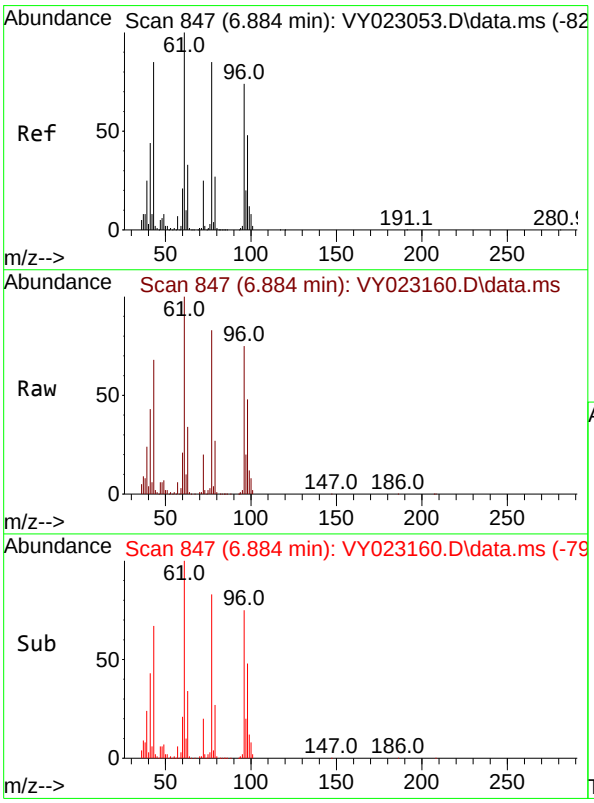
#25
2-Butanone
Concen: 210.456 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 268264

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.5	35.3

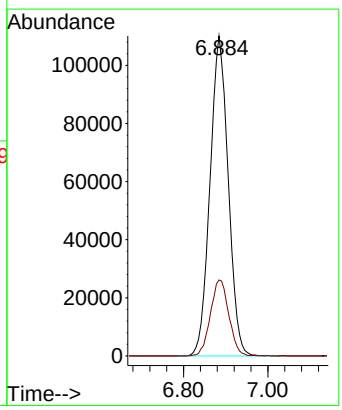


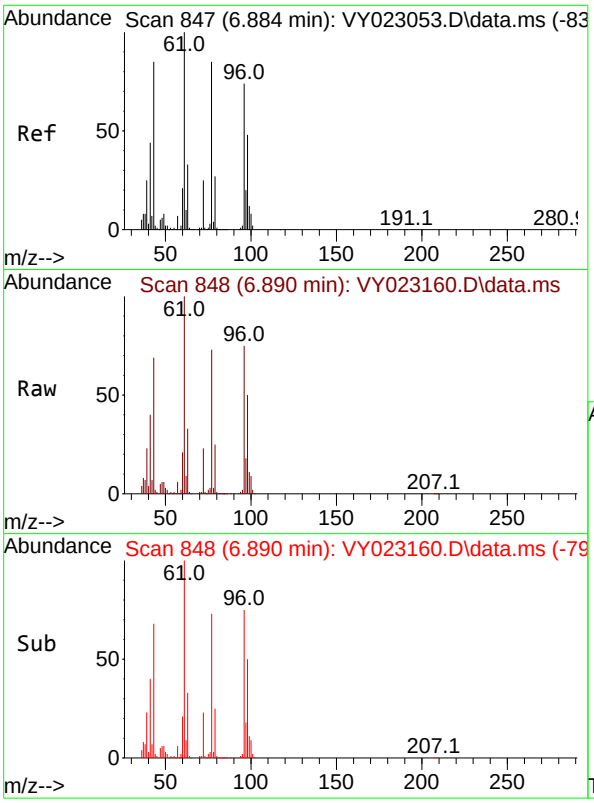


#26
2,2-Dichloropropane
Concen: 44.729 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 77 Resp: 330025

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.8



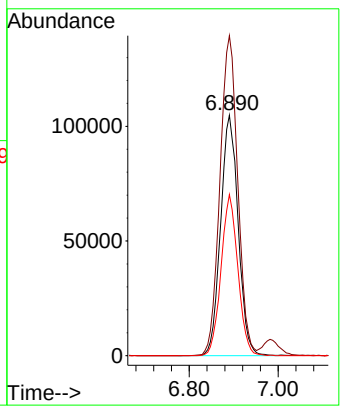


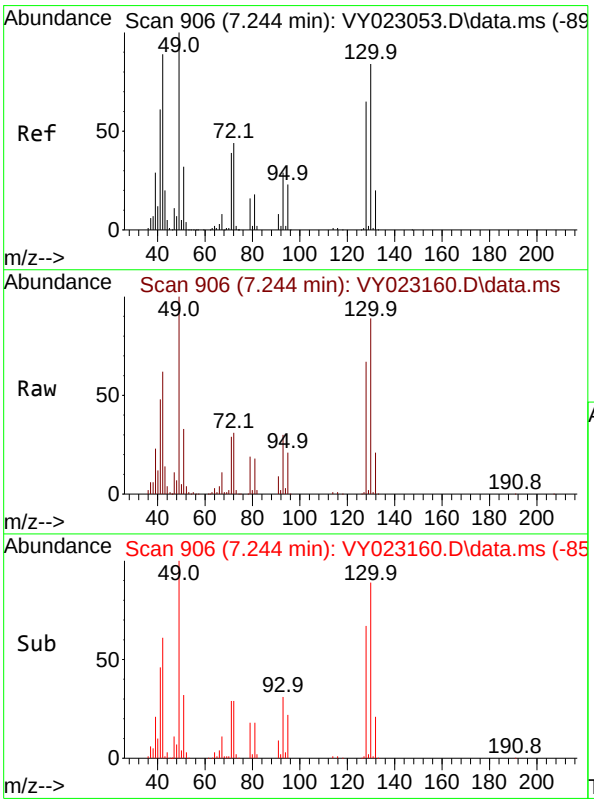
#27
cis-1,2-Dichloroethene
Concen: 50.390 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 286353

Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	278.6
98	64.2	0.0	130.4

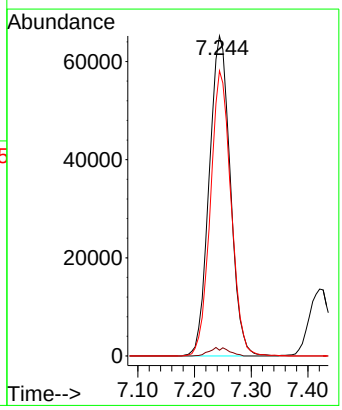


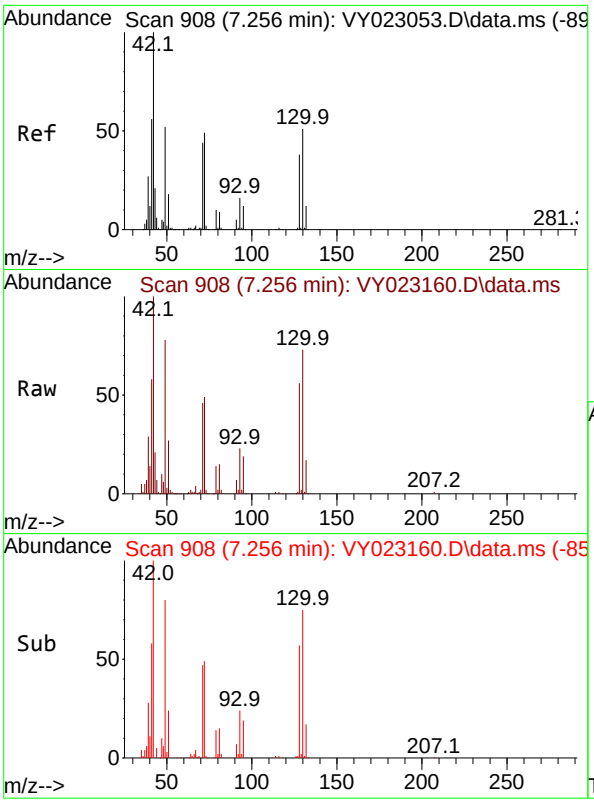


#28
Bromochloromethane
Concen: 49.712 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 49 Resp: 168646

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	87.0	66.4	99.6



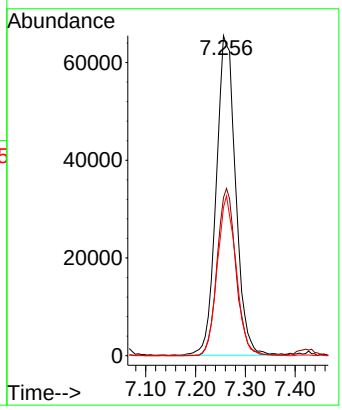


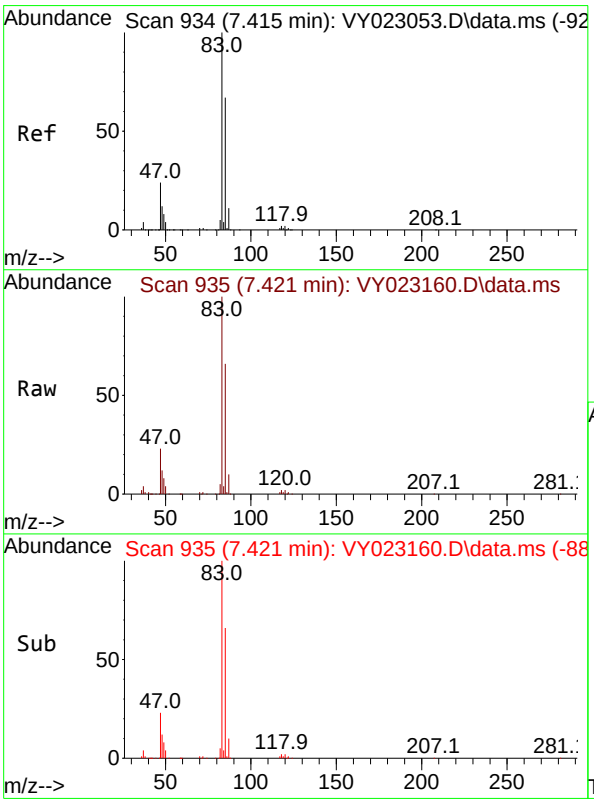
#29
Tetrahydrofuran
Concen: 223.965 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 176959

Ion	Ratio	Lower	Upper
42	100		
72	51.0	39.4	59.2
71	48.7	36.5	54.7

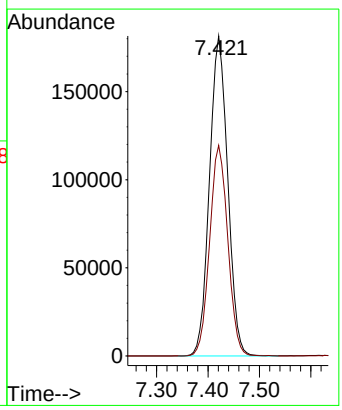


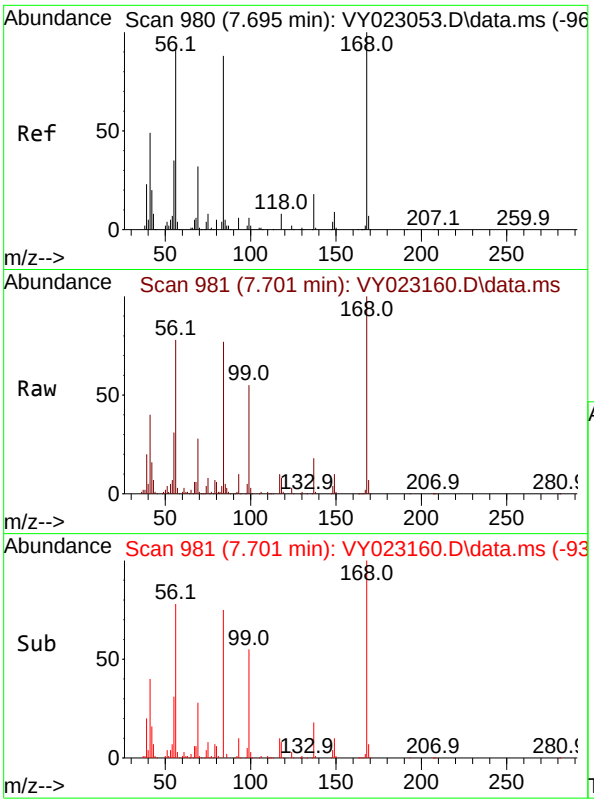


#30
Chloroform
Concen: 50.699 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 447102

Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.8	80.8



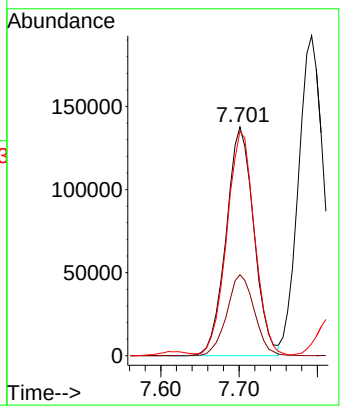


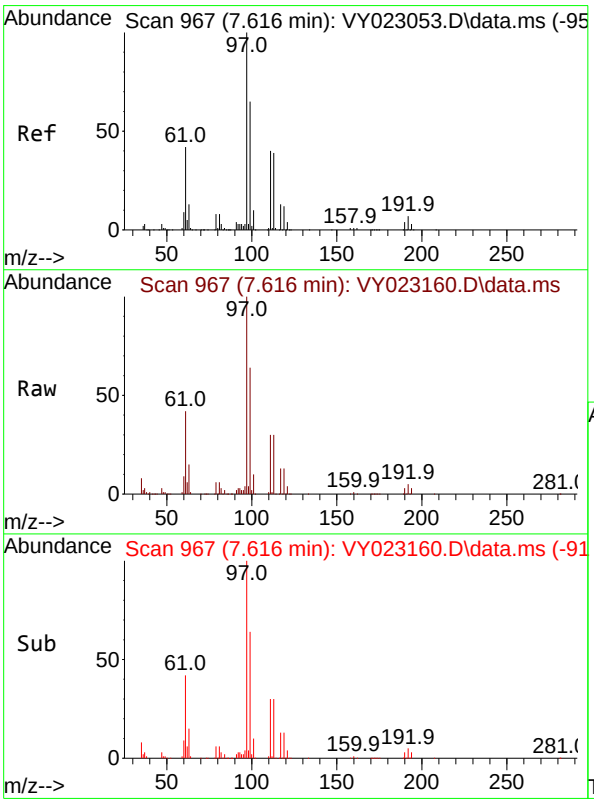
#31
Cyclohexane
Concen: 42.047 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 338813

Ion	Ratio	Lower	Upper
56	100		
69	35.4	28.2	42.2
84	96.4	76.6	114.8

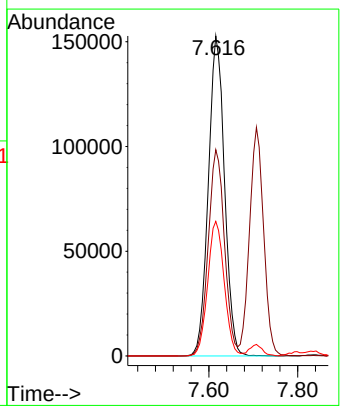


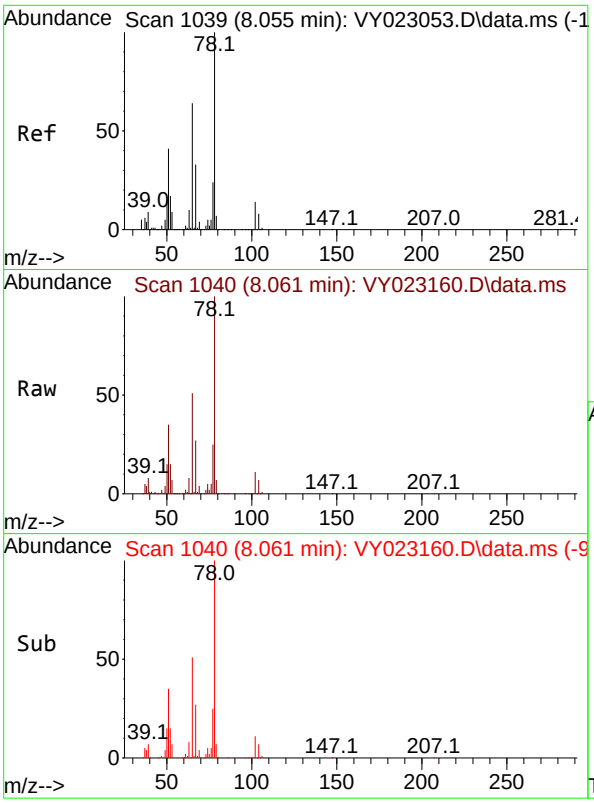


#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 97 Resp: 386894

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	42.9	34.2	51.2



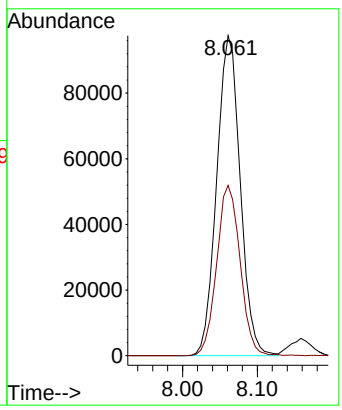


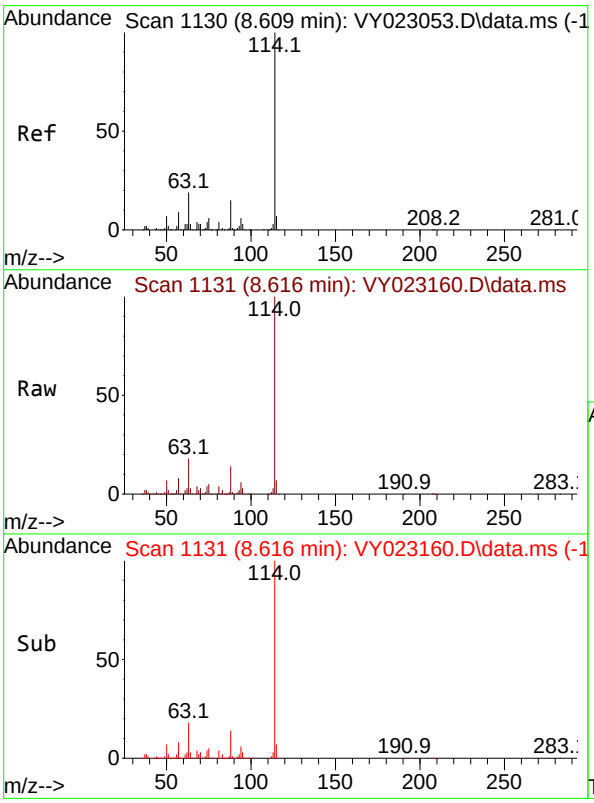
#33
1,2-Dichloroethane-d4
Concen: 49.322 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 213375

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

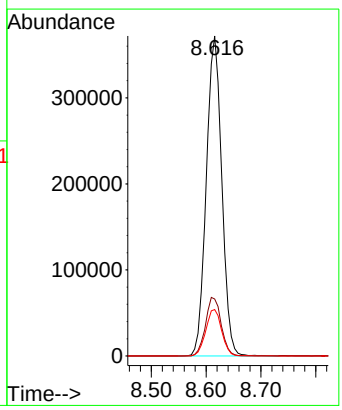


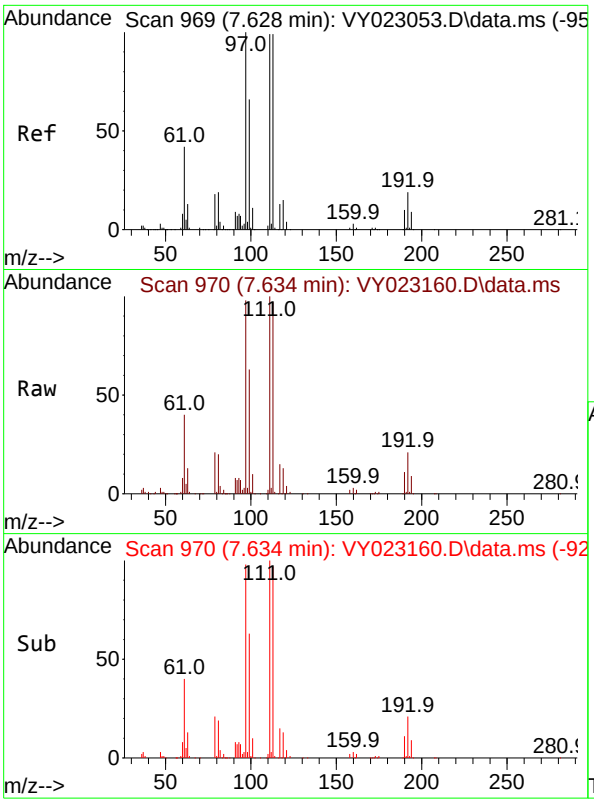


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:114 Resp: 726912

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	38.4
88	14.5	0.0	30.0



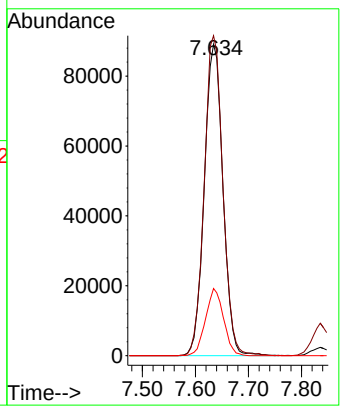


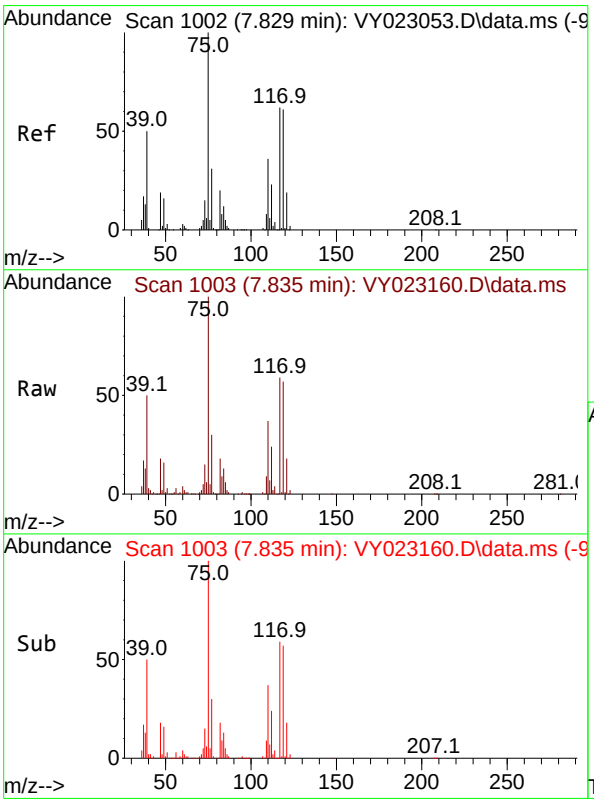
#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 217058

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.1	121.7
192	20.9	16.2	24.4

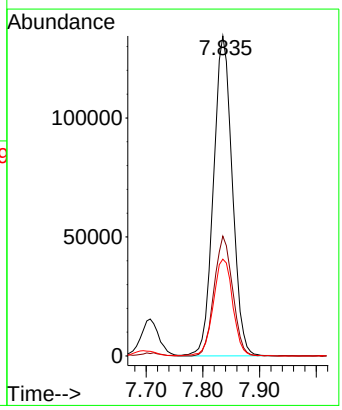


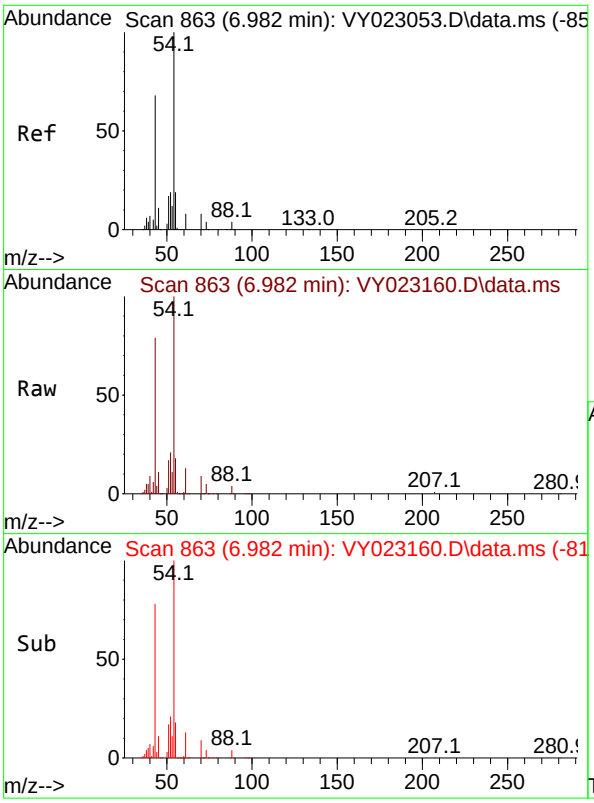


#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 308640

Ion	Ratio	Lower	Upper
75	100		
110	37.0	18.1	54.4
77	31.4	24.6	37.0



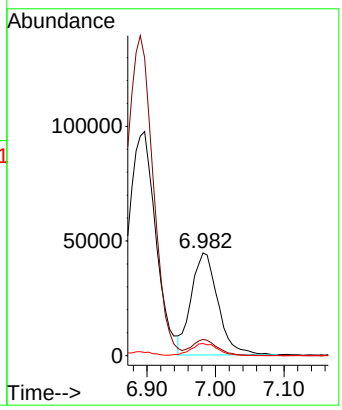


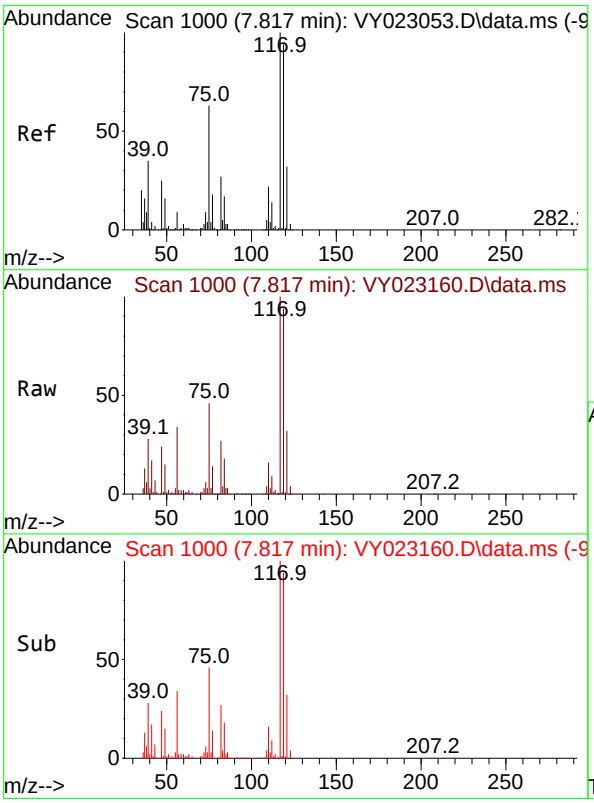
#37
Ethyl Acetate
Concen: 44.444 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 120682

Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.9	17.9
70	12.3	8.8	13.2

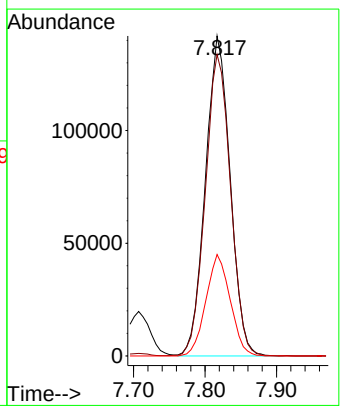


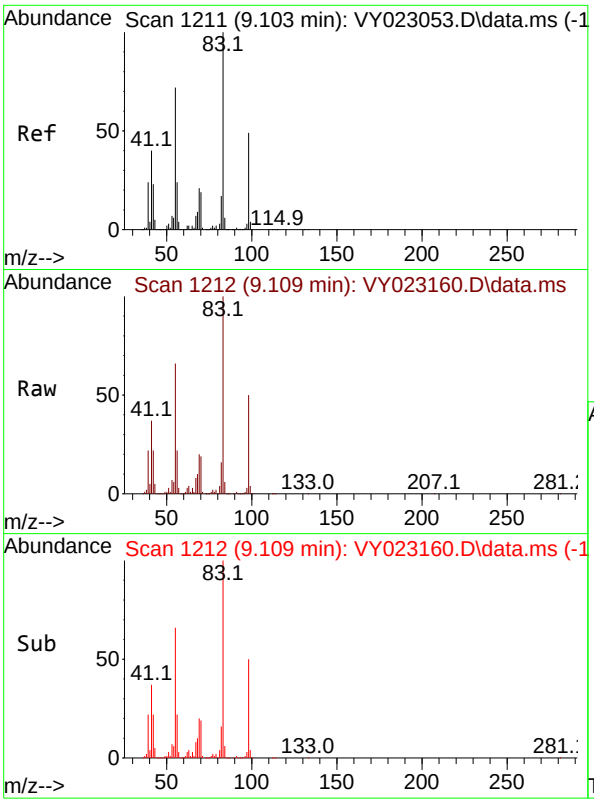


#38
Carbon Tetrachloride
Concen: 48.612 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 341297

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.6	113.4
121	31.7	25.8	38.8



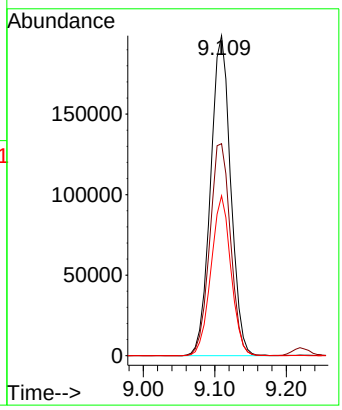


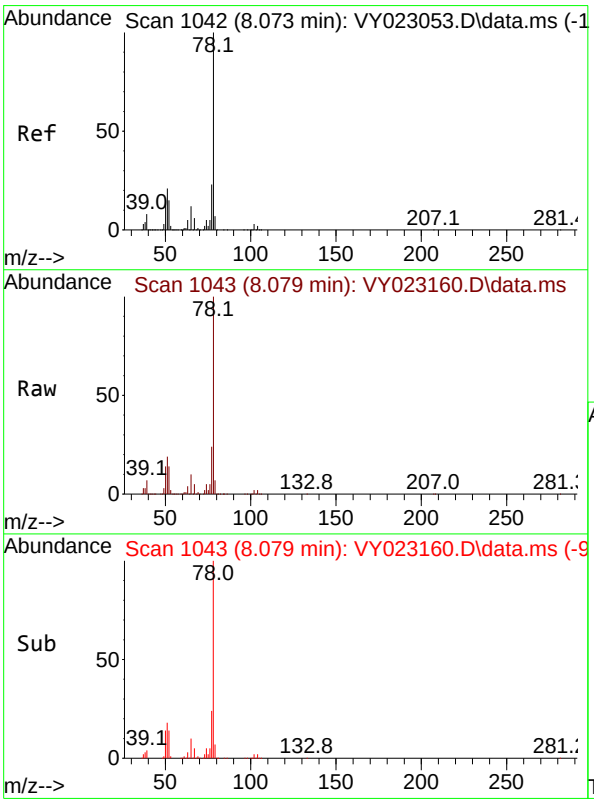
#39
Methylcyclohexane
Concen: 45.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 387997

Ion	Ratio	Lower	Upper
83	100		
55	66.2	57.6	86.4
98	49.9	39.2	58.8

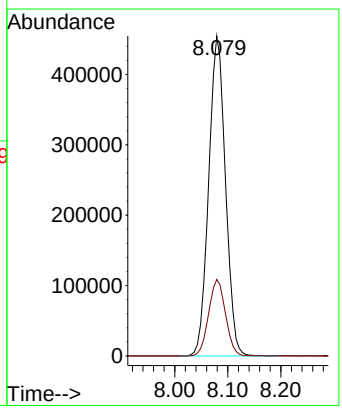


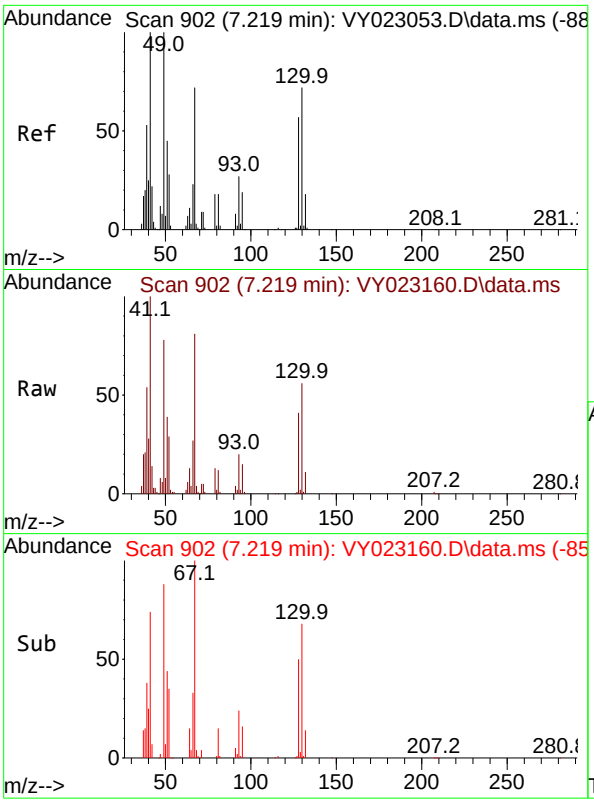


#40
Benzene
Concen: 50.170 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 78 Resp: 999546

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0



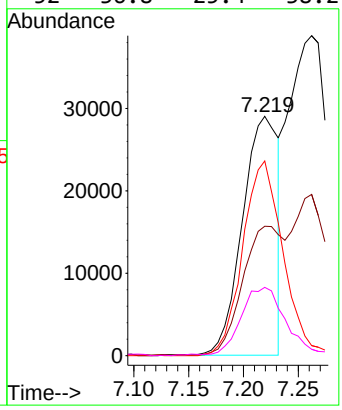


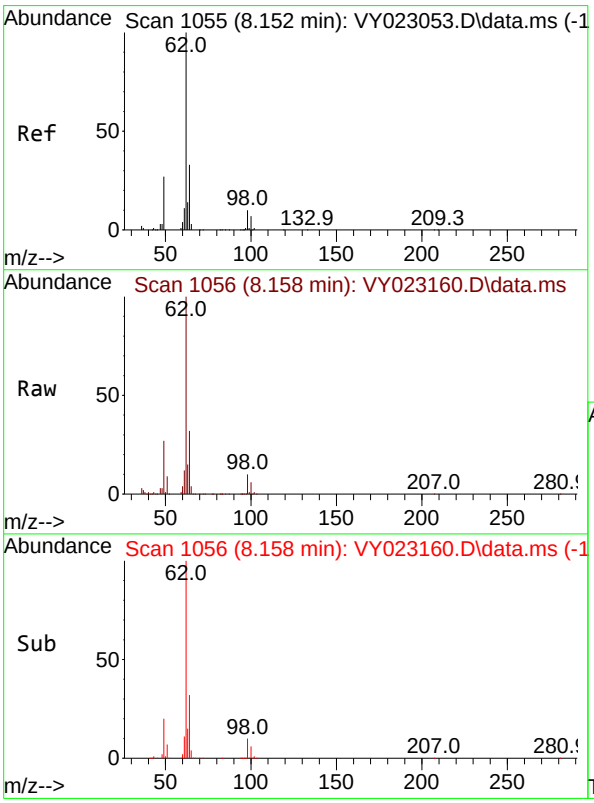
#41
Methacrylonitrile
Concen: 41.877 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 65626

Ion	Ratio	Lower	Upper
41	100		
39	62.3	43.4	65.2
67	92.6	63.6	95.4
52	36.8	25.4	38.2

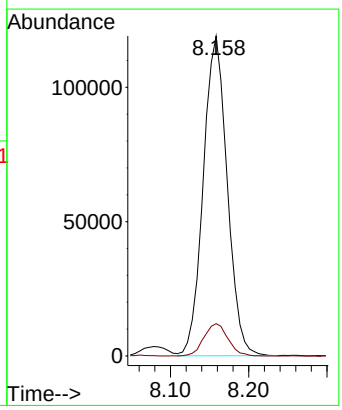


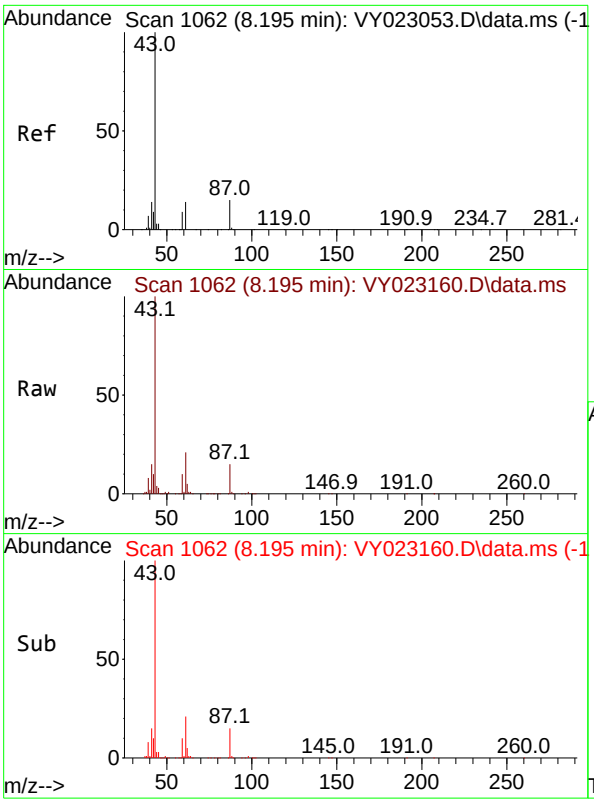


#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 253049

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



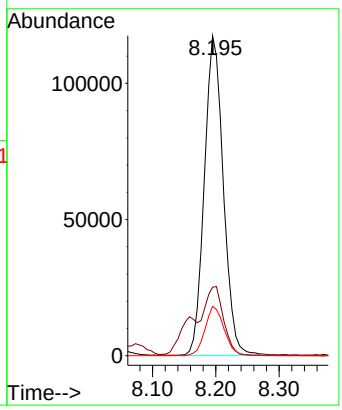


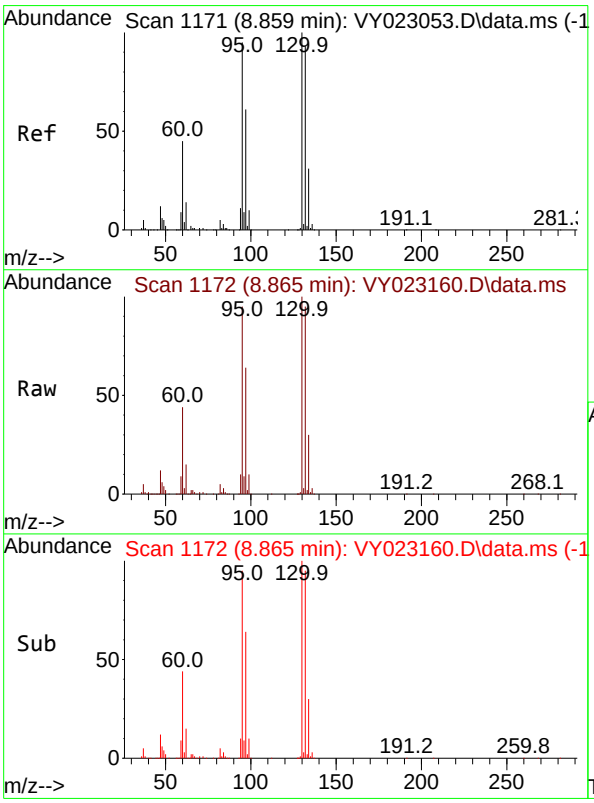
#43
Isopropyl Acetate
Concen: 44.694 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 245293

Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.4	24.6
87	15.5	11.8	17.6

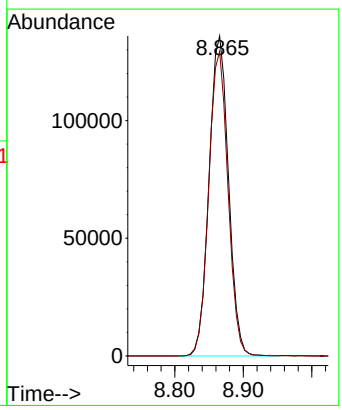


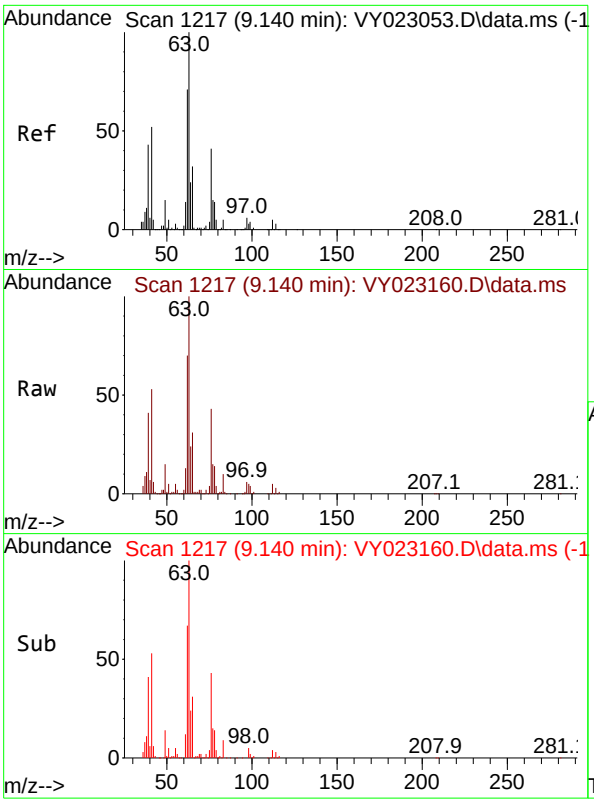


#44
Trichloroethene
Concen: 51.782 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:130 Resp: 266609

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	190.2



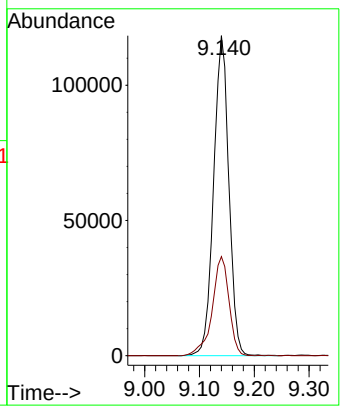


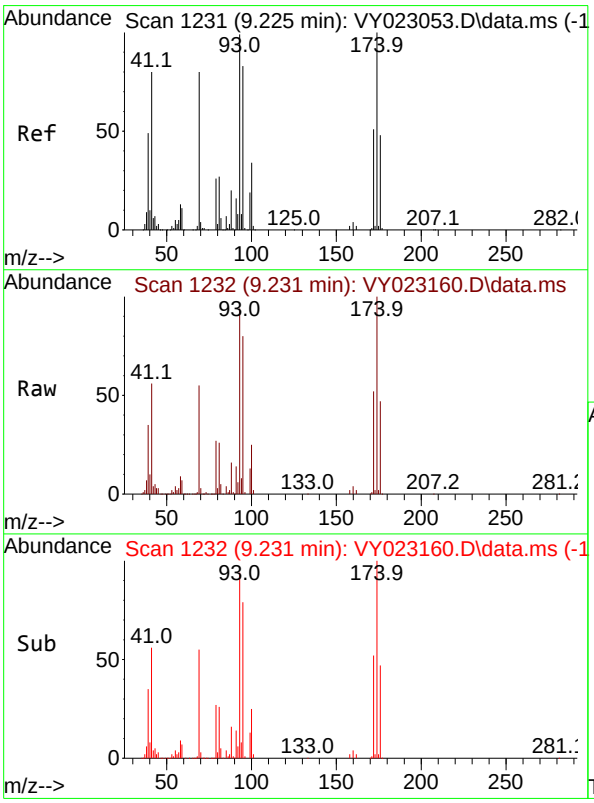
#45
1,2-Dichloropropane
Concen: 49.829 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 228425

Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.3	37.9

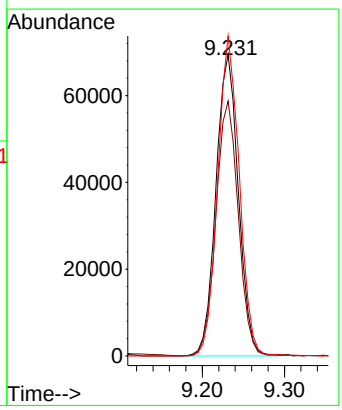


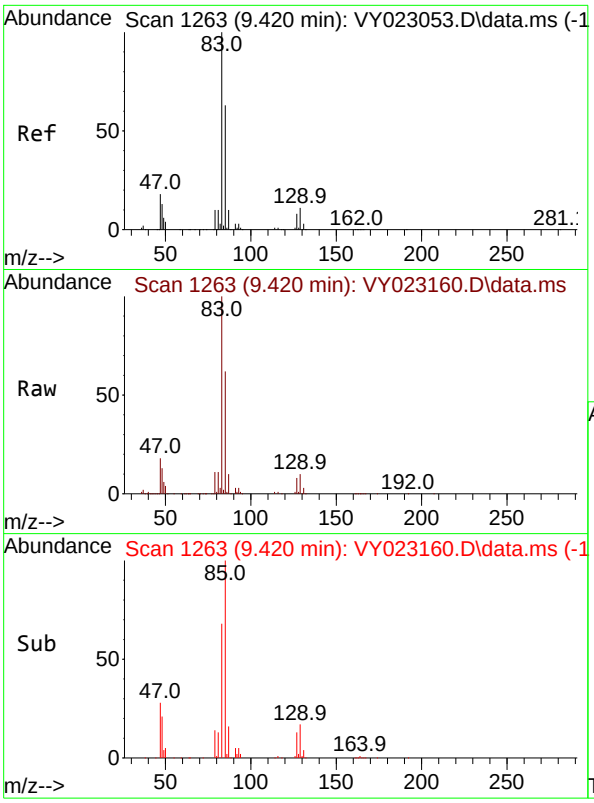


#46
Dibromomethane
Concen: 49.971 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 93 Resp: 131481

Ion	Ratio	Lower	Upper
93	100		
95	84.7	66.5	99.7
174	102.7	81.8	122.8



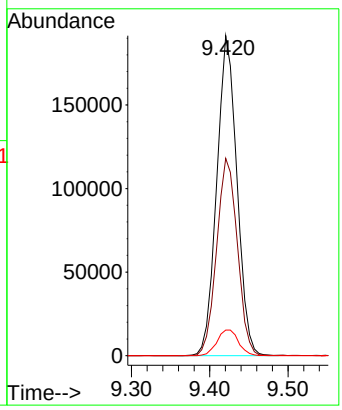


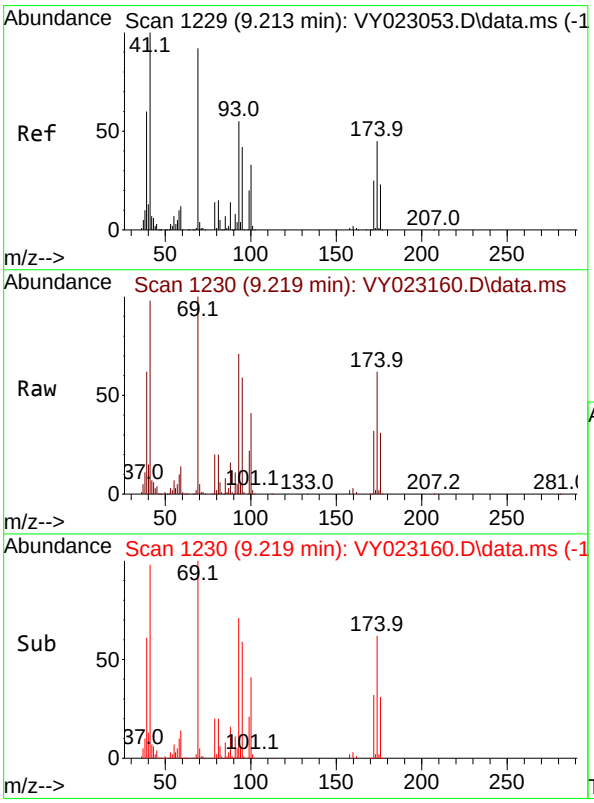
#47
Bromodichloromethane
Concen: 50.703 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 343279

Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.2	75.4
127	8.0	6.6	10.0

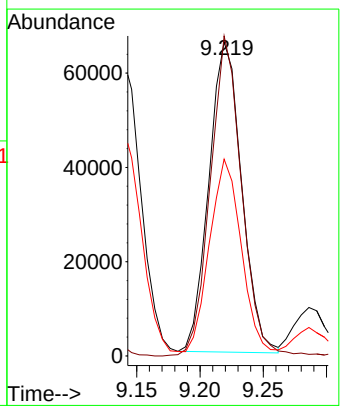


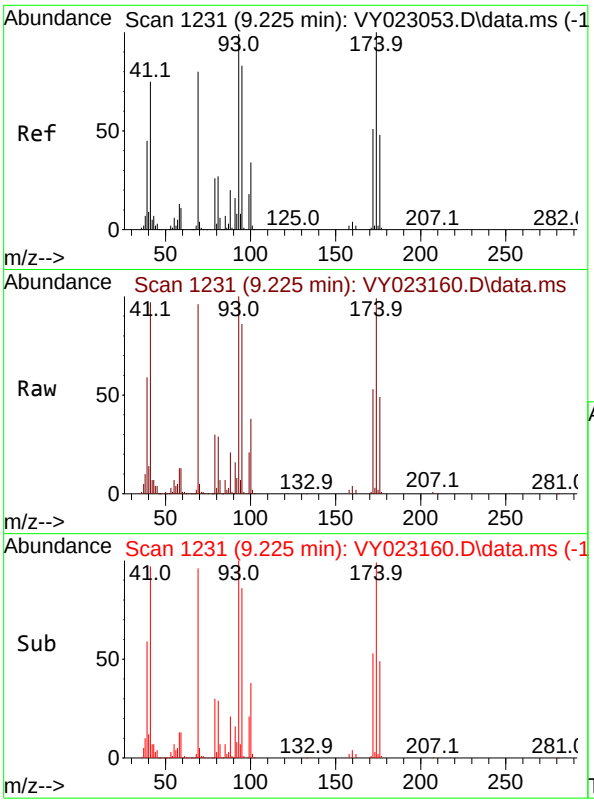


#48
Methyl methacrylate
Concen: 45.021 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 118237

Ion	Ratio	Lower	Upper
41	100		
69	99.0	73.2	109.8
39	59.8	47.0	70.4



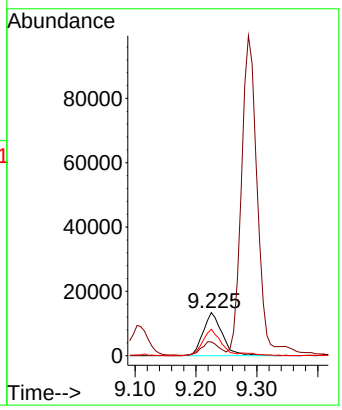


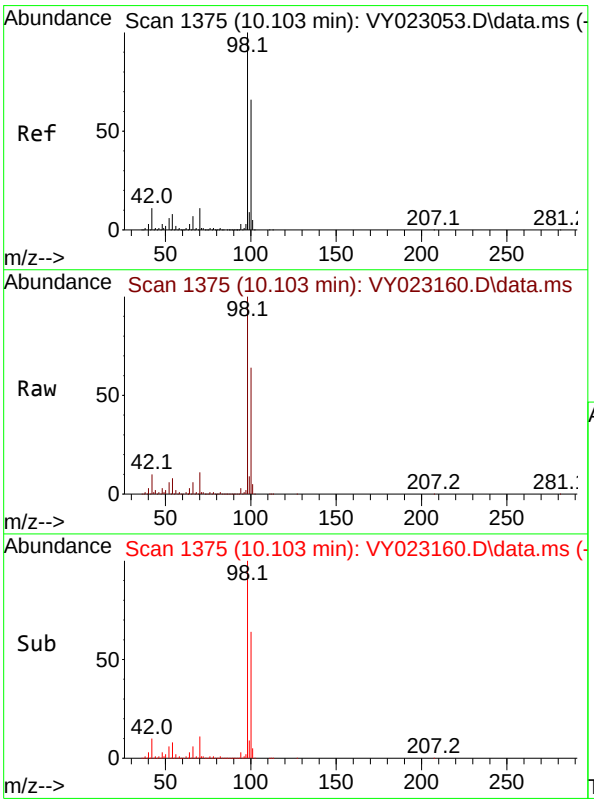
#49
1,4-Dioxane
Concen: 946.444 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 29199

Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.3	36.5
58	57.5	55.4	83.0

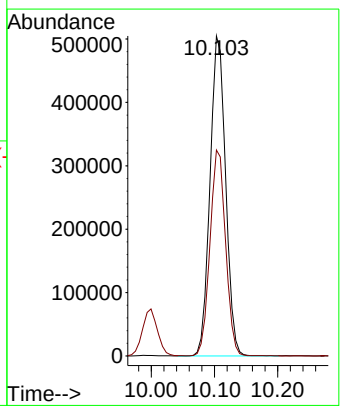


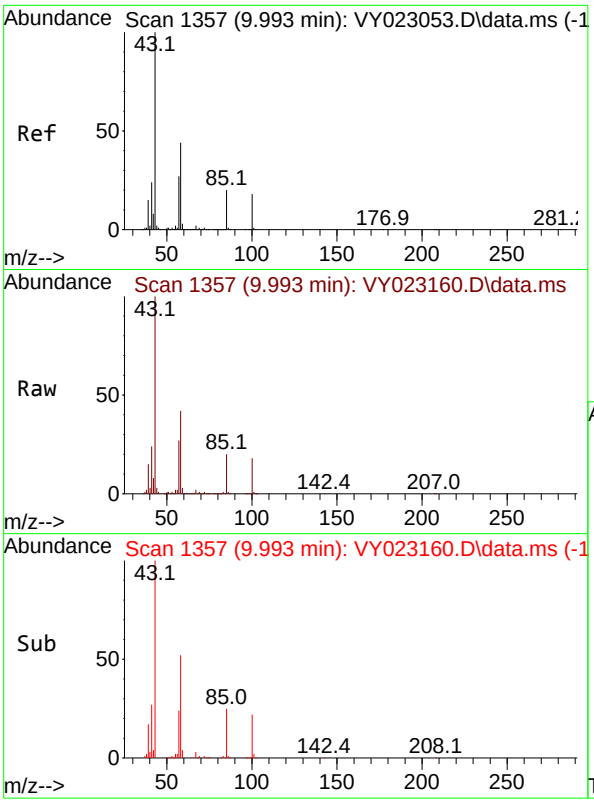


#50
Toluene-d8
Concen: 50.853 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 98 Resp: 864097

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.3	78.5



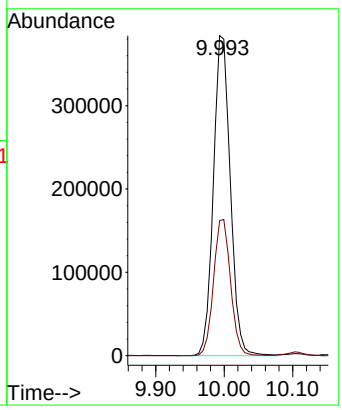


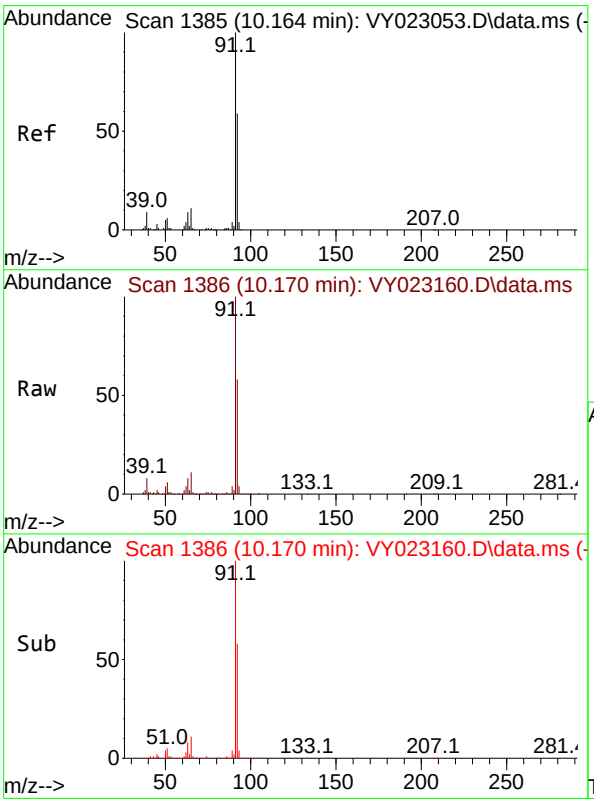
#51
4-Methyl-2-Pentanone
Concen: 231.971 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 656710

Ion	Ratio	Lower	Upper
43	100		
58	42.9	33.5	50.3

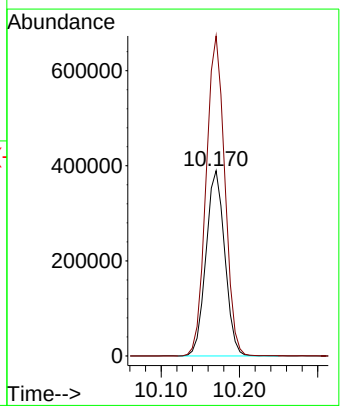


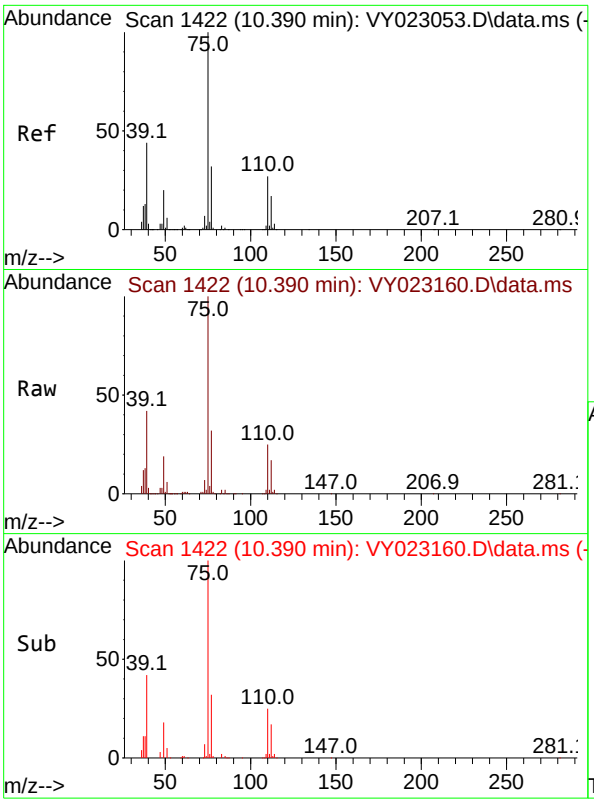


#52
Toluene
Concen: 51.179 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 92 Resp: 647611

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.4	204.6



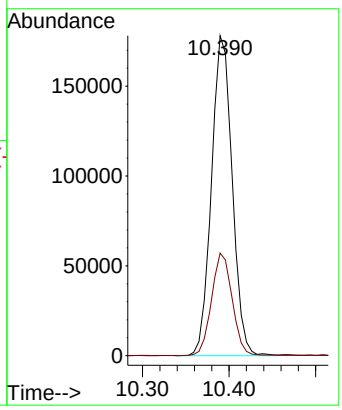


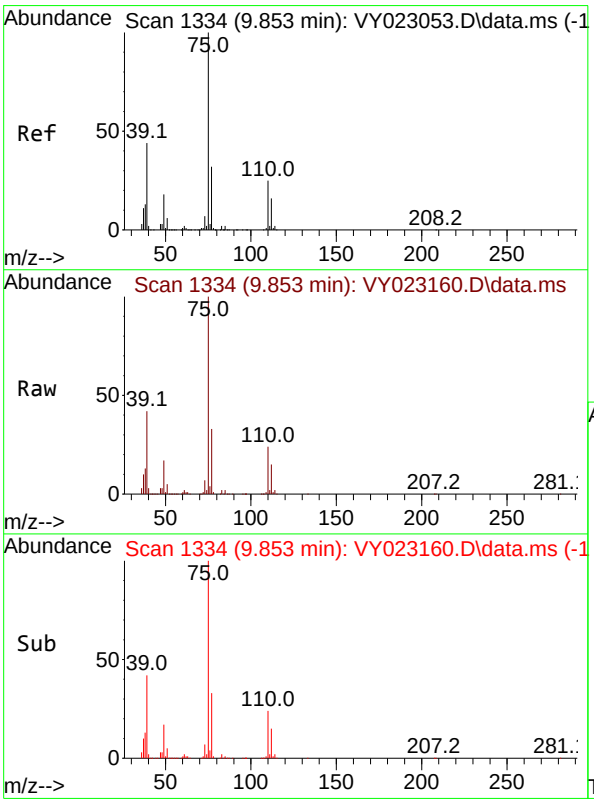
#53
t-1,3-Dichloropropene
Concen: 48.297 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 296104

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5

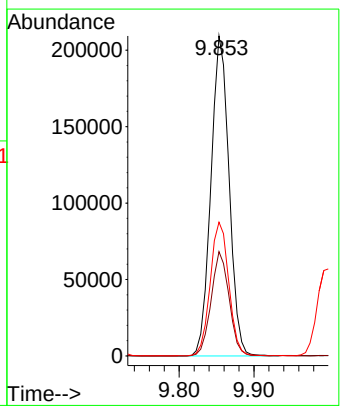


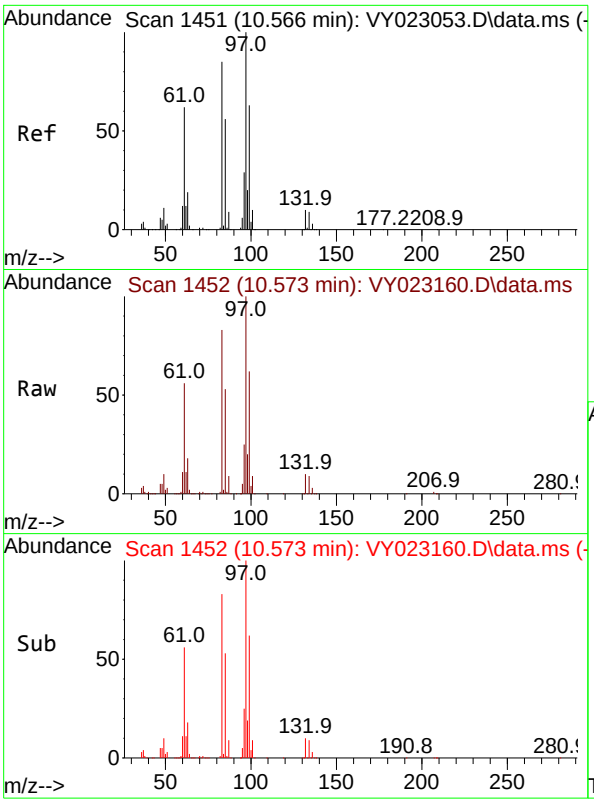


#54
cis-1,3-Dichloropropene
Concen: 48.751 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 353426

Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.4	38.0
39	41.7	35.6	53.4



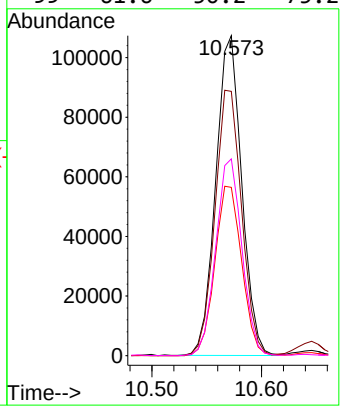


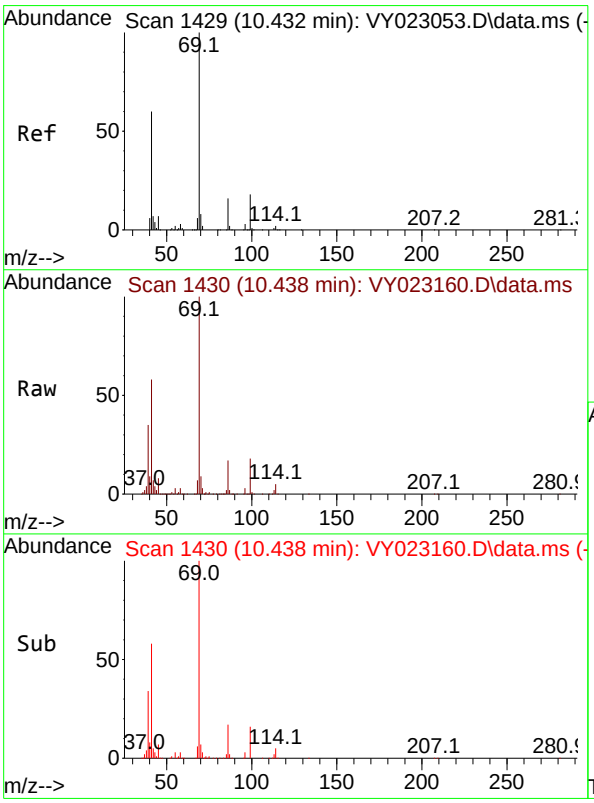
#55
1,1,2-Trichloroethane
Concen: 50.180 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 176672

Ion	Ratio	Lower	Upper
97	100		
83	82.7	67.7	101.5
85	52.7	44.5	66.7
99	61.6	50.2	75.2

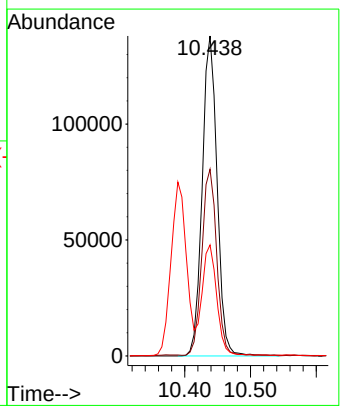


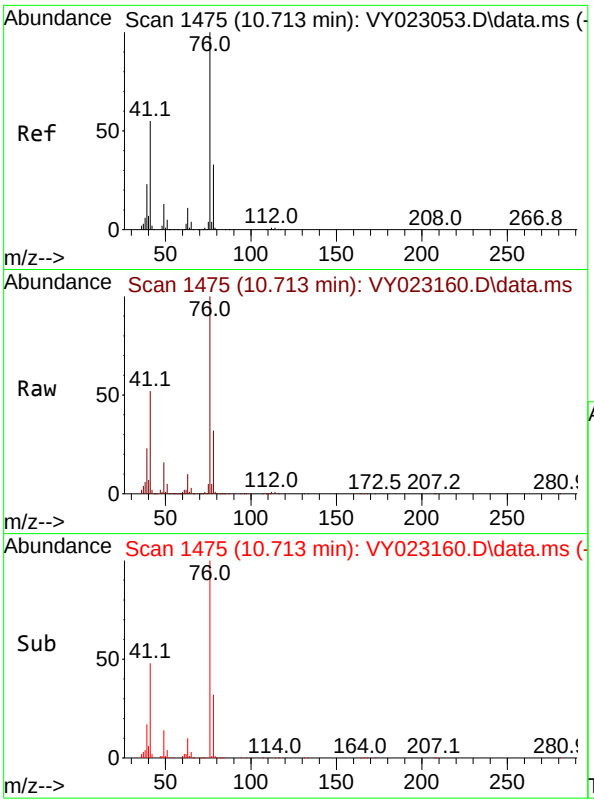


#56
Ethyl methacrylate
Concen: 48.375 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 69 Resp: 217938

Ion	Ratio	Lower	Upper
69	100		
41	58.3	48.6	72.8
39	34.0	27.0	40.4



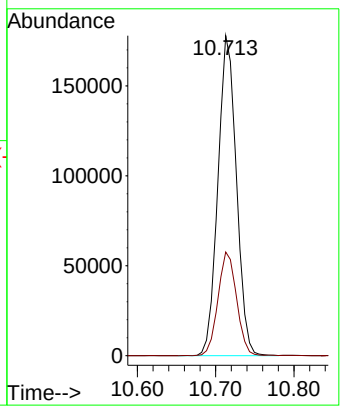


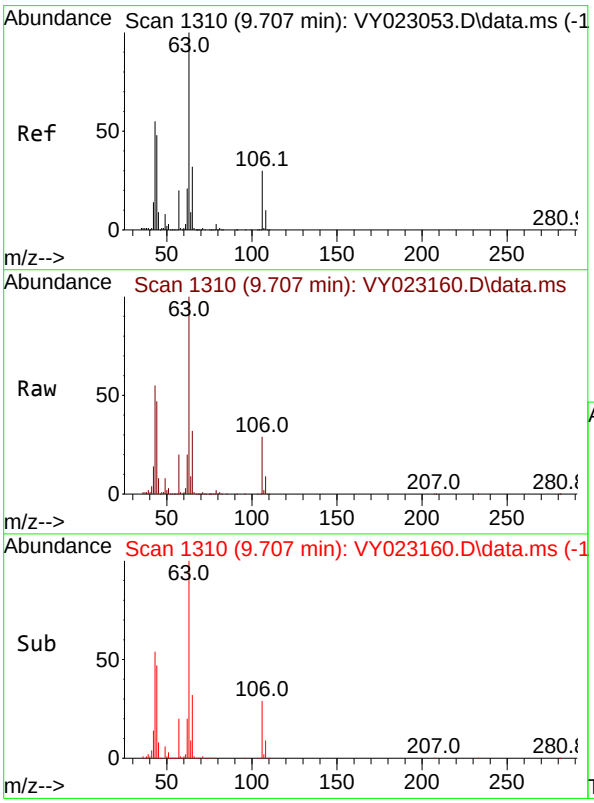
#57
1,3-Dichloropropane
Concen: 48.952 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 292293

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

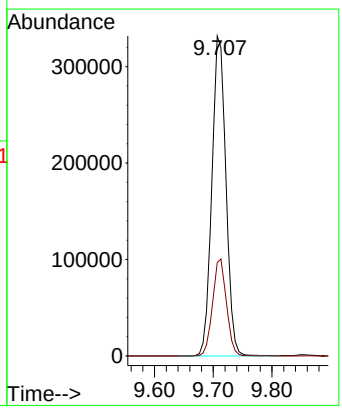


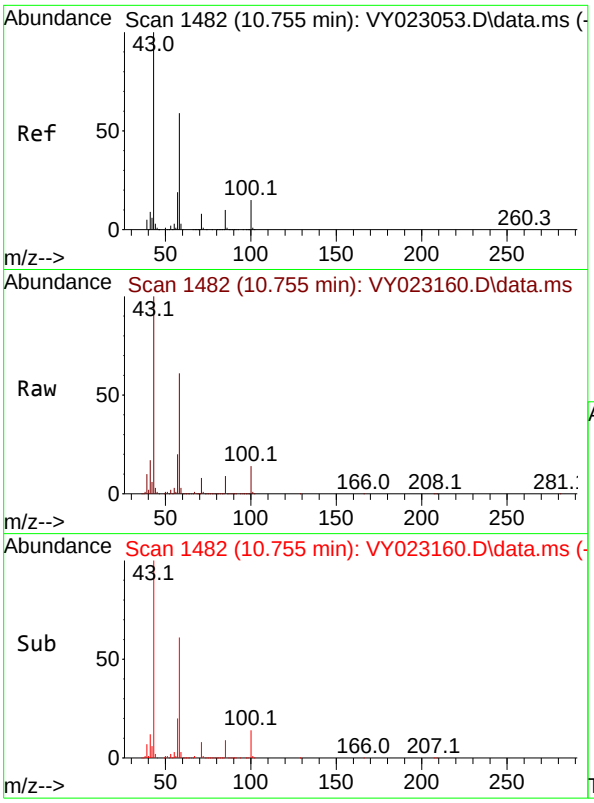


#58
2-Chloroethyl Vinyl ether
Concen: 259.330 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 551100

Ion	Ratio	Lower	Upper
63	100		
106	29.9	23.2	34.8



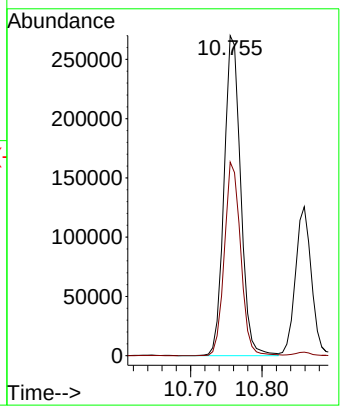


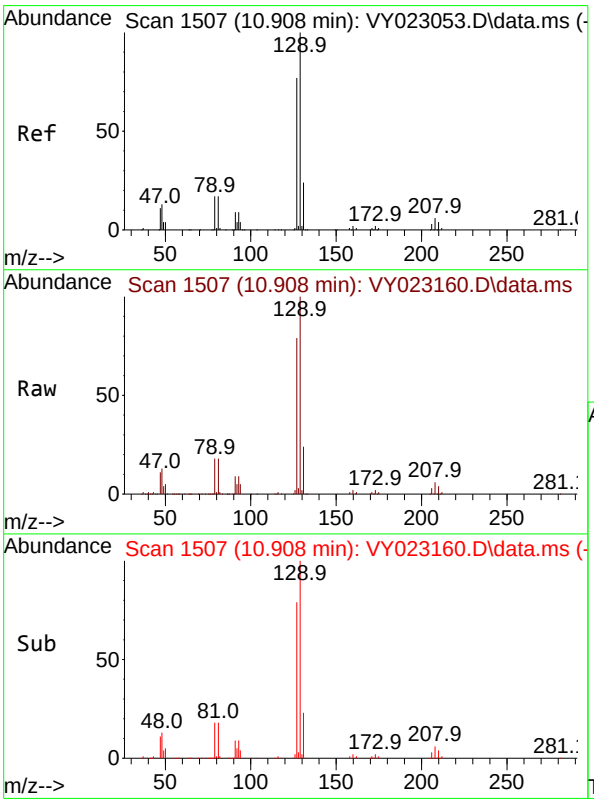
#59
2-Hexanone
Concen: 225.681 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 435049

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

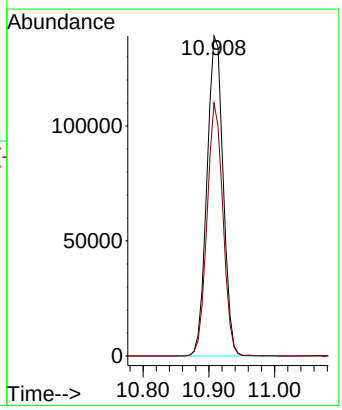


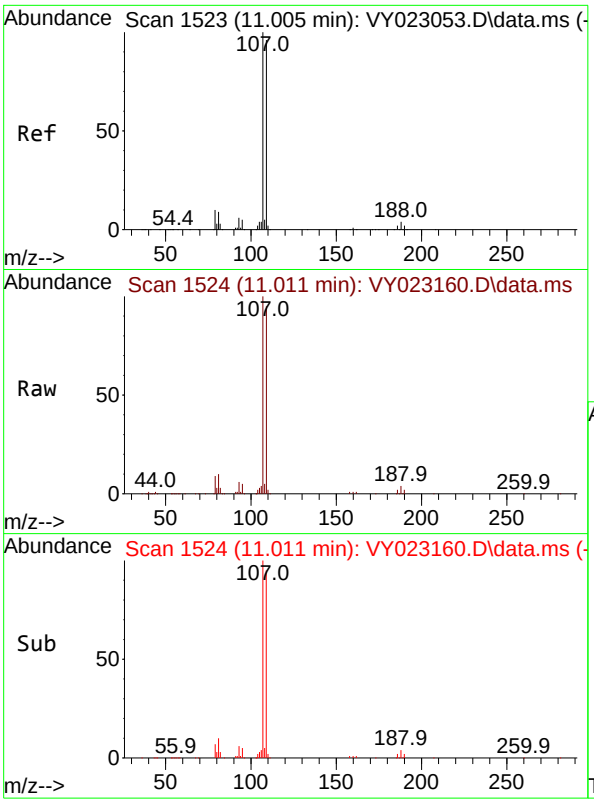


#60
Dibromochloromethane
Concen: 51.365 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:129 Resp: 238623

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5



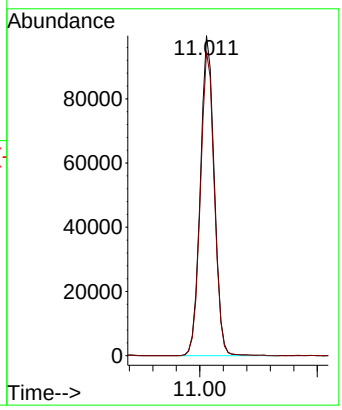


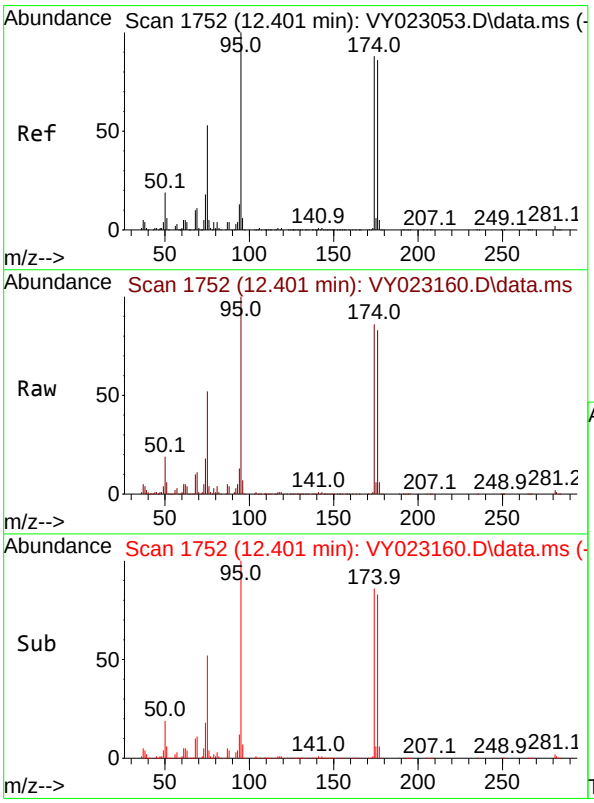
#61
1,2-Dibromoethane
Concen: 49.588 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 164095

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.6	113.4

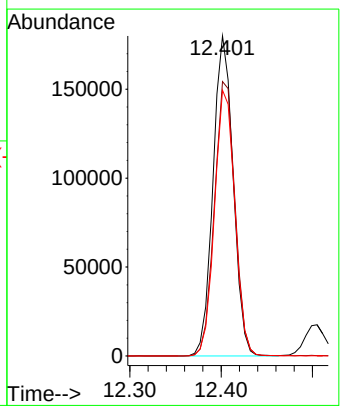


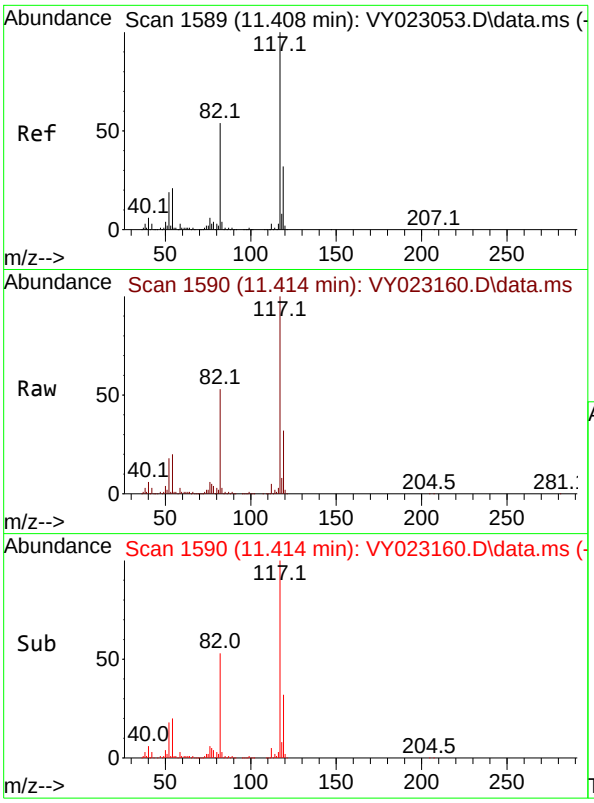


#62
4-Bromofluorobenzene
Concen: 50.308 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 95 Resp: 274917

Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	171.6
176	84.1	0.0	167.6



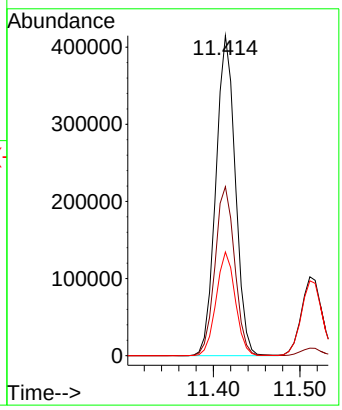


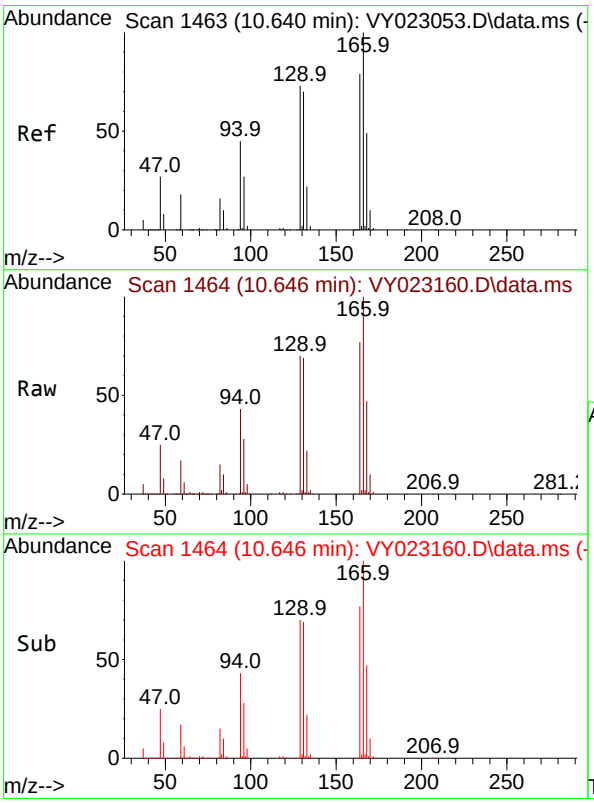
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 647238

Ion	Ratio	Lower	Upper
117	100		
82	52.8	43.4	65.0
119	32.4	25.6	38.4

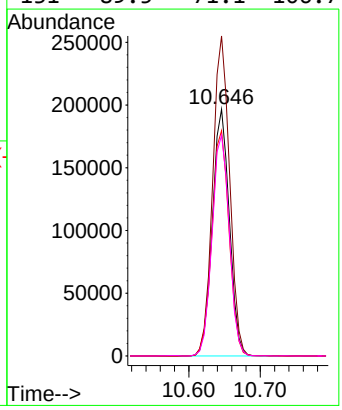


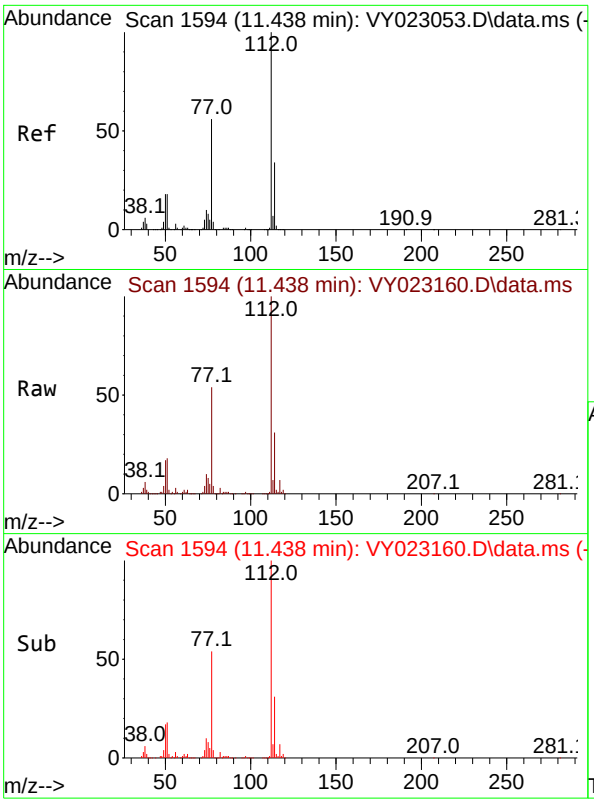


#64
Tetrachloroethene
Concen: 56.055 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:164 Resp: 323963

Ion	Ratio	Lower	Upper
164	100		
166	129.7	101.1	151.7
129	91.3	74.0	111.0
131	89.5	71.1	106.7



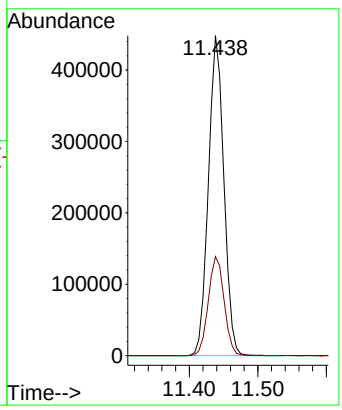


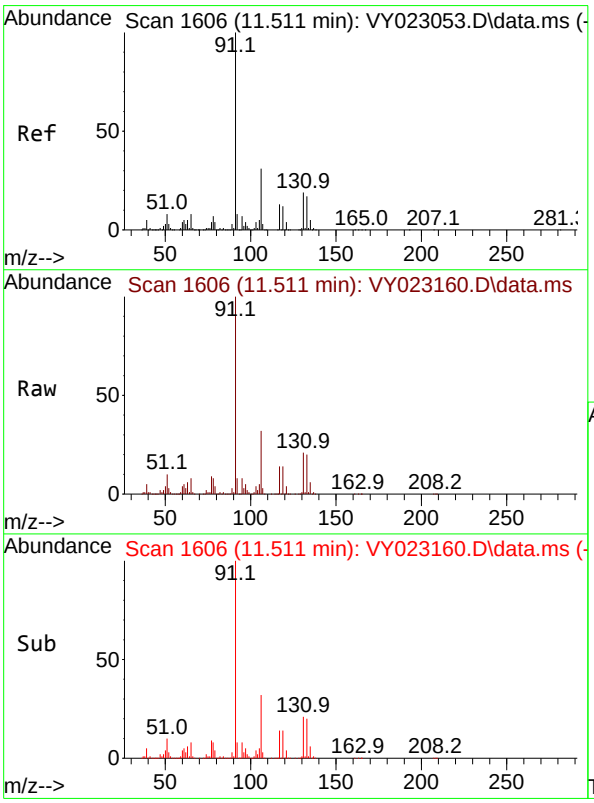
#65
Chlorobenzene
Concen: 50.434 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 704107

Ion	Ratio	Lower	Upper
112	100		
114	31.0	27.0	40.4

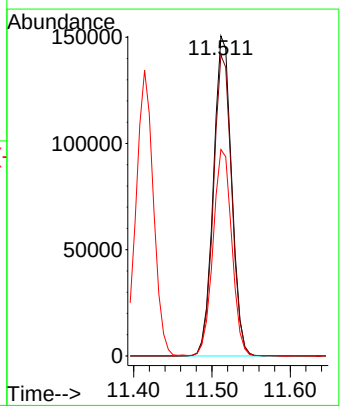


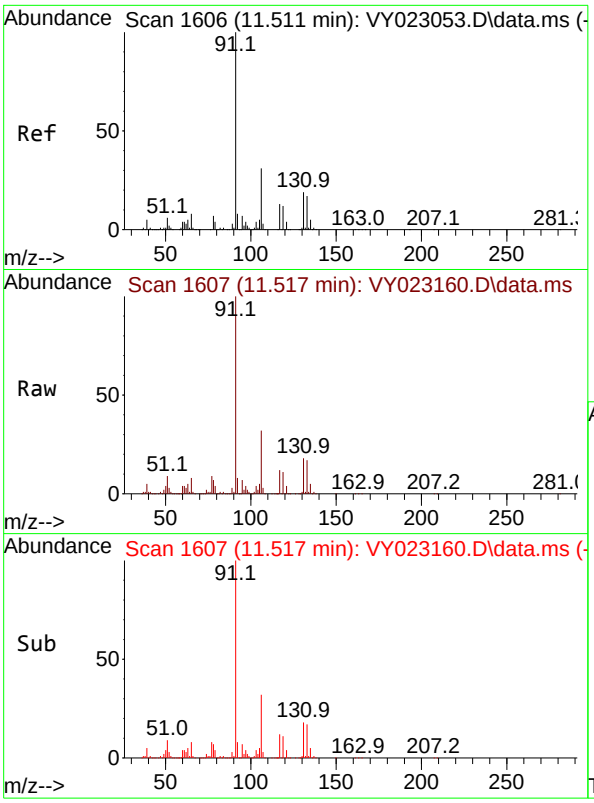


#66
1,1,1,2-Tetrachloroethane
Concen: 51.411 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:131 Resp: 243596

Ion	Ratio	Lower	Upper
131	100		
133	94.2	46.9	140.6
119	66.4	33.2	99.6



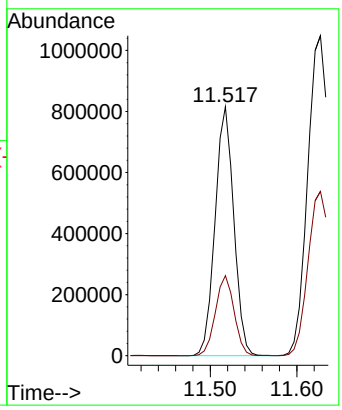


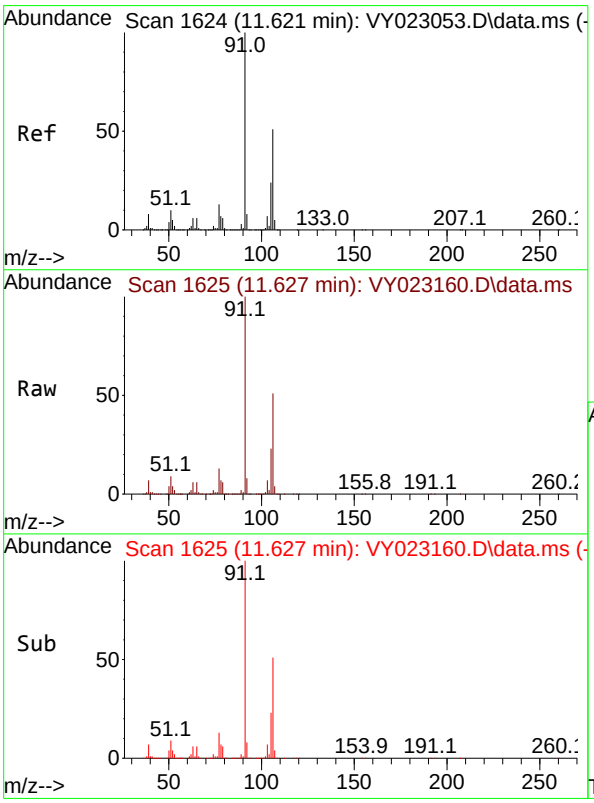
#67
Ethyl Benzene
Concen: 50.888 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1222605

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.0	37.4

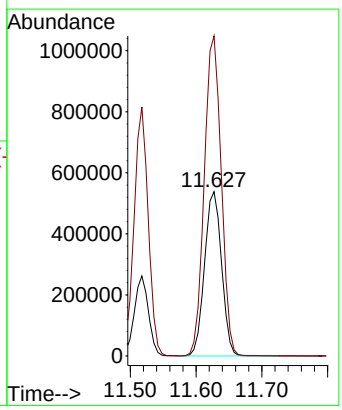


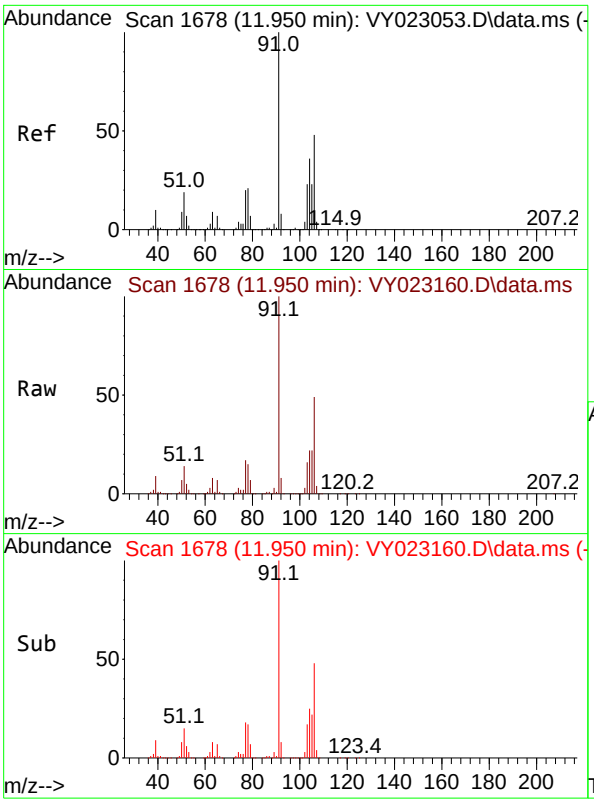


#68
m/p-Xylenes
Concen: 103.051 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 966978

Ion	Ratio	Lower	Upper
106	100		
91	194.8	158.6	238.0



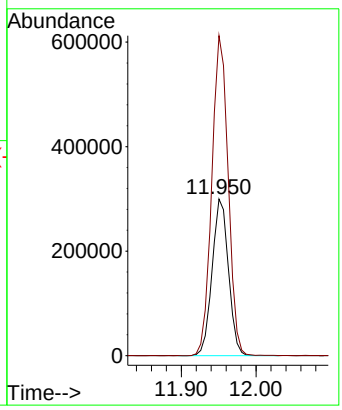


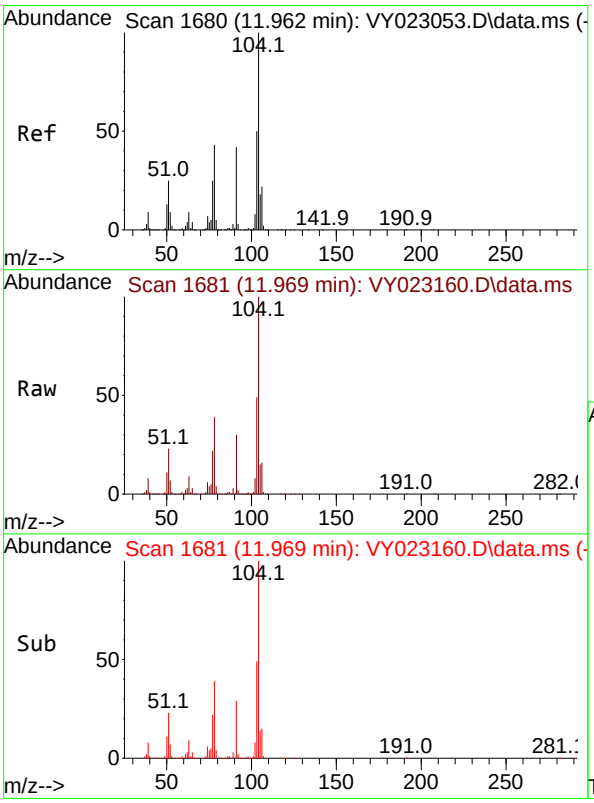
#69
o-Xylene
Concen: 51.799 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 455236

Ion	Ratio	Lower	Upper
106	100		
91	204.7	103.2	309.4

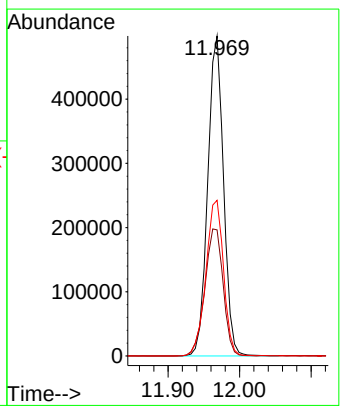


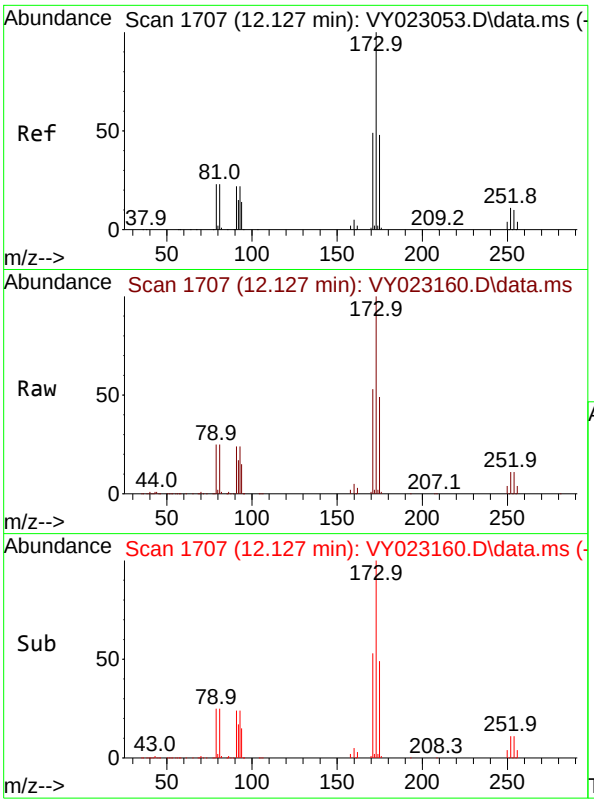


#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:104 Resp: 763639

Ion	Ratio	Lower	Upper
104	100		
78	46.1	38.5	57.7
103	54.4	43.7	65.5



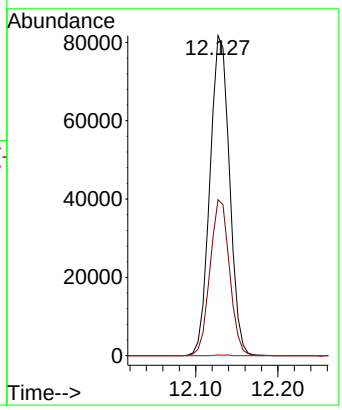


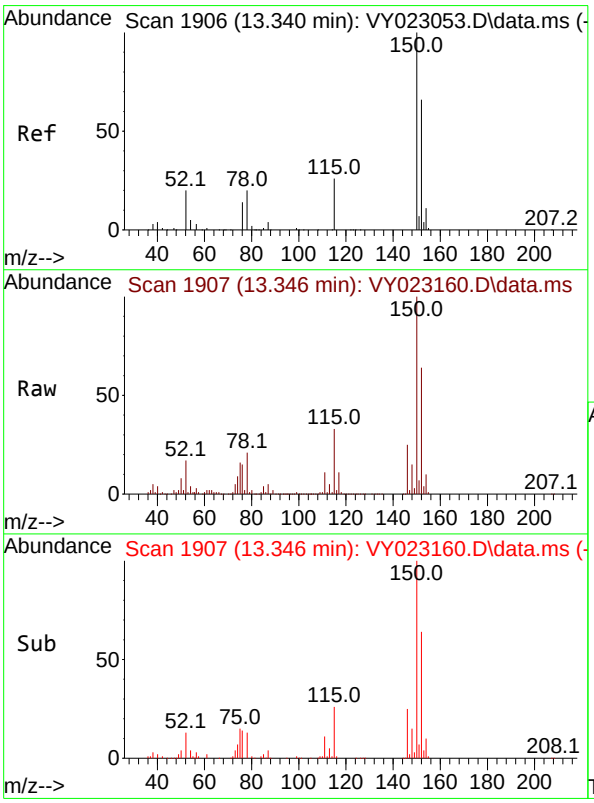
#71
Bromoform
Concen: 48.980 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 135638

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.2	0.1	0.1#

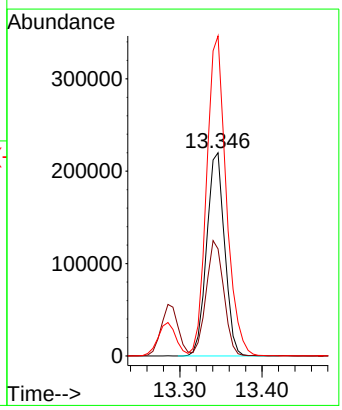


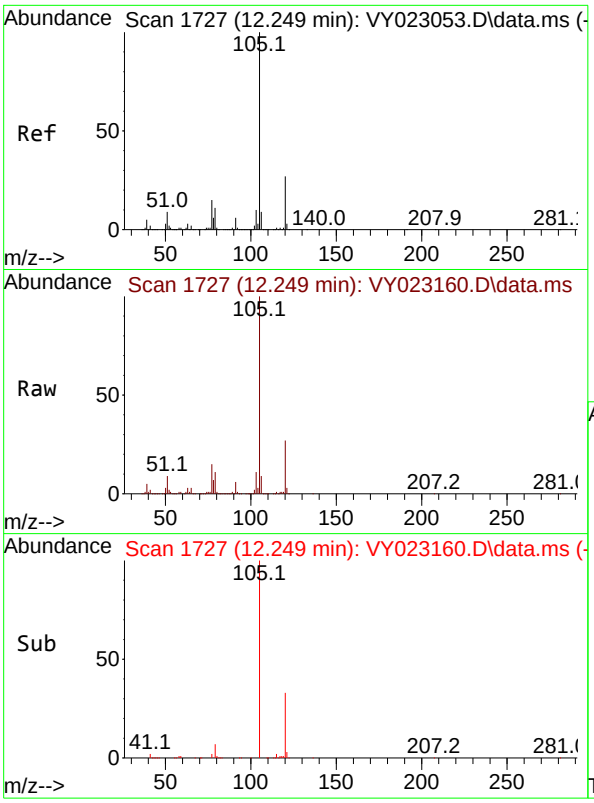


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:152 Resp: 333557

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.2	84.6
150	171.6	0.0	348.0



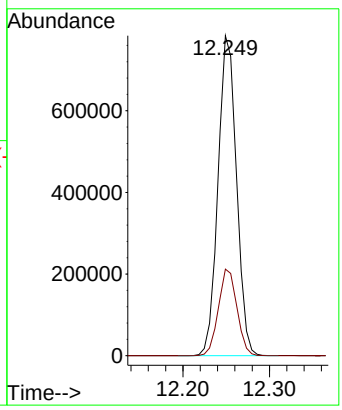


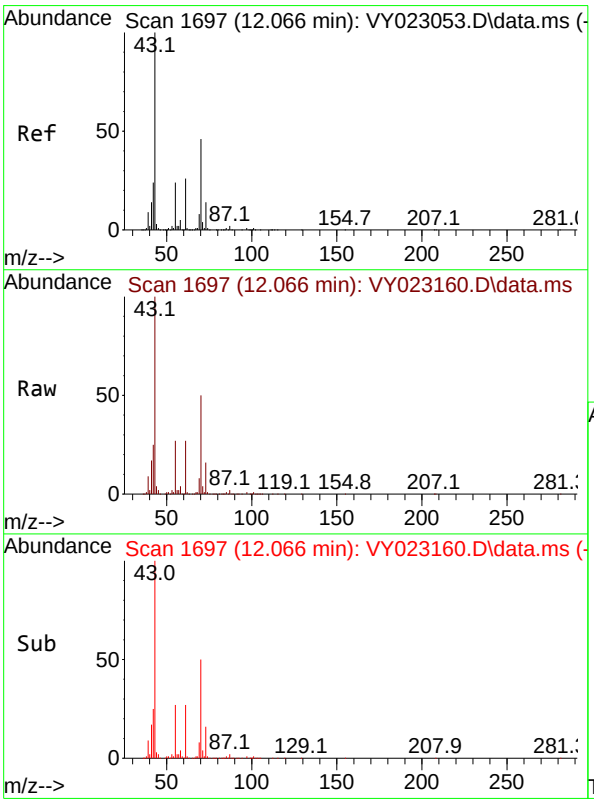
#73
Isopropylbenzene
Concen: 49.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1161331

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2

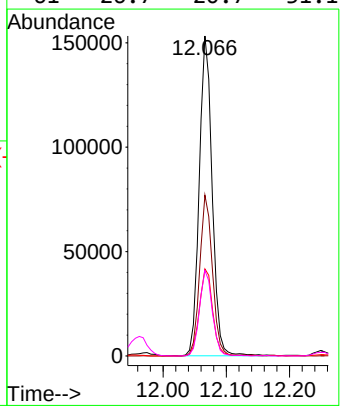


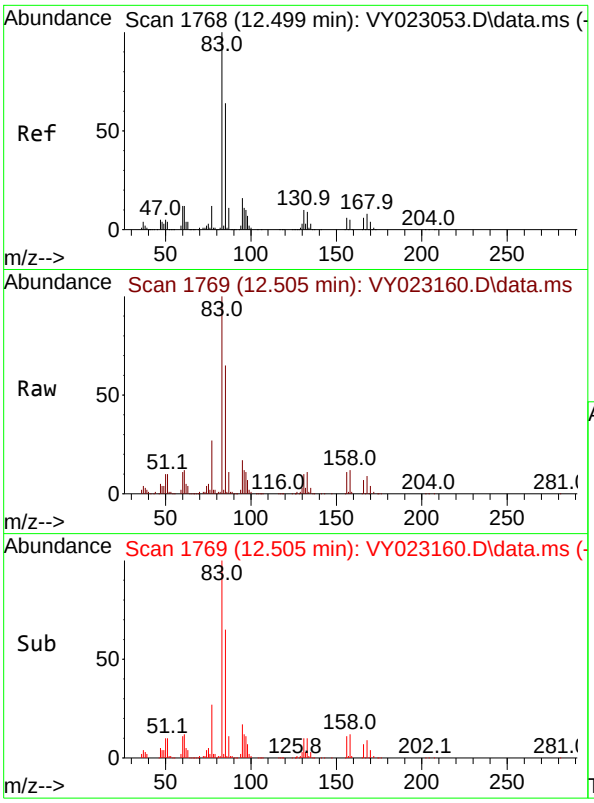


#74
N-amyl acetate
Concen: 43.613 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 217737

Ion	Ratio	Lower	Upper
43	100		
70	49.5	37.5	56.3
55	28.2	20.7	31.1
61	26.7	20.7	31.1



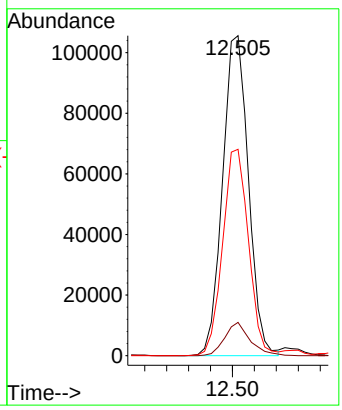


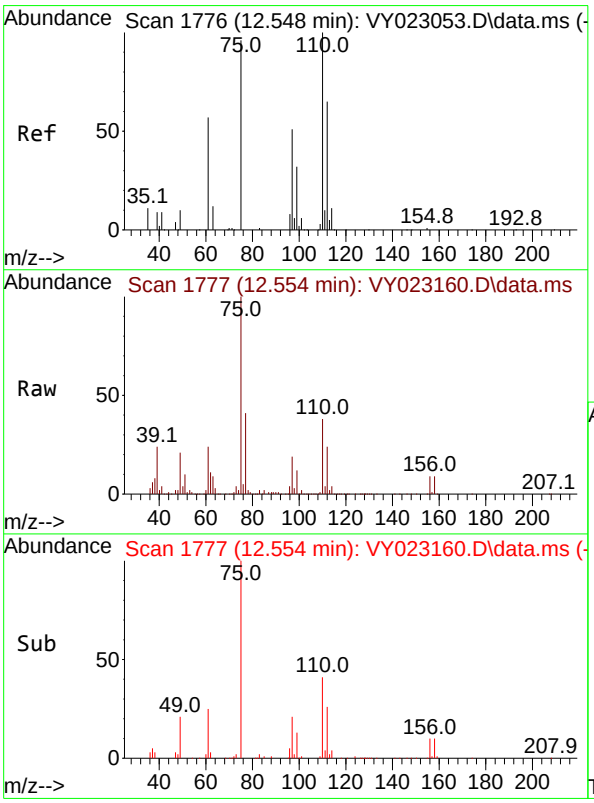
#75
1,1,2,2-Tetrachloroethane
Concen: 43.025 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 172951

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	64.4	31.8	95.3

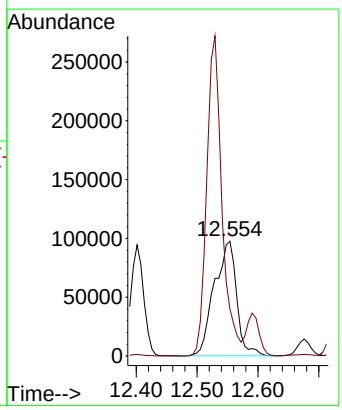


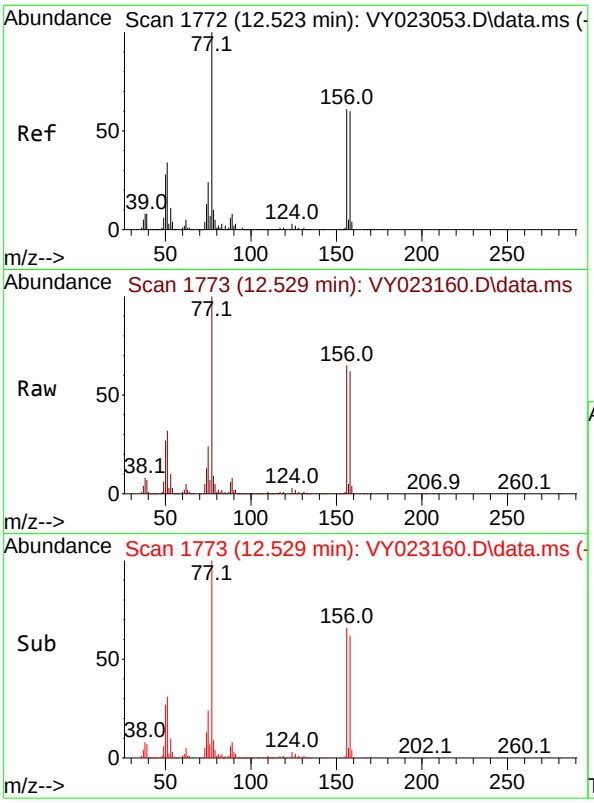


#76
1,2,3-Trichloropropane
Concen: 77.236 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 248637

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



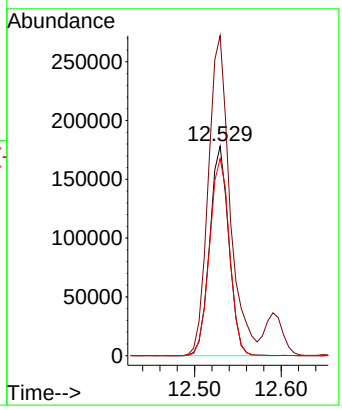


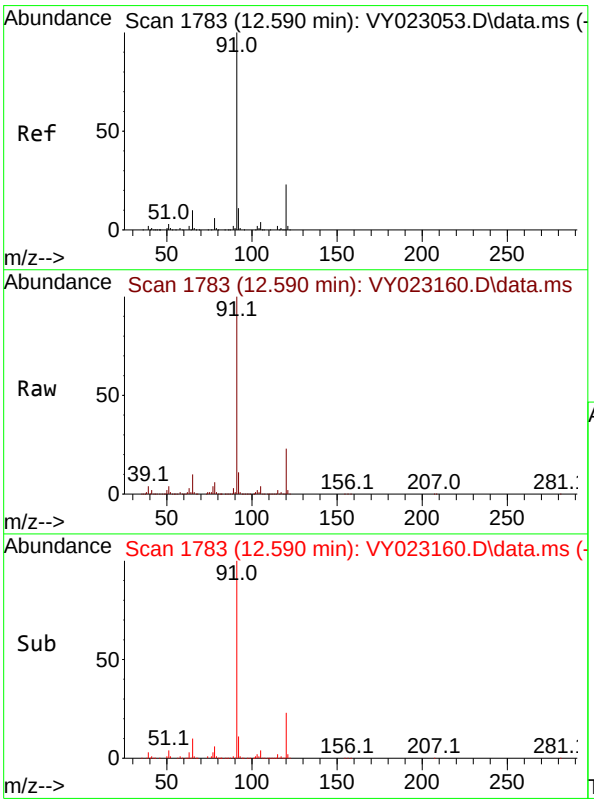
#77
Bromobenzene
Concen: 48.690 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 273466

Ion	Ratio	Lower	Upper
156	100		
77	172.9	88.1	264.4
158	97.9	48.0	144.0

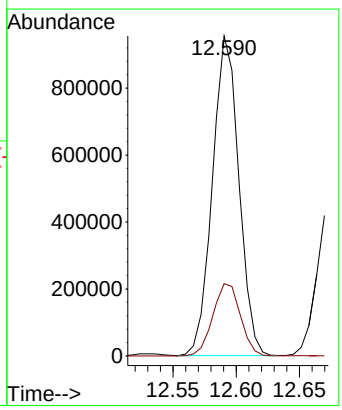


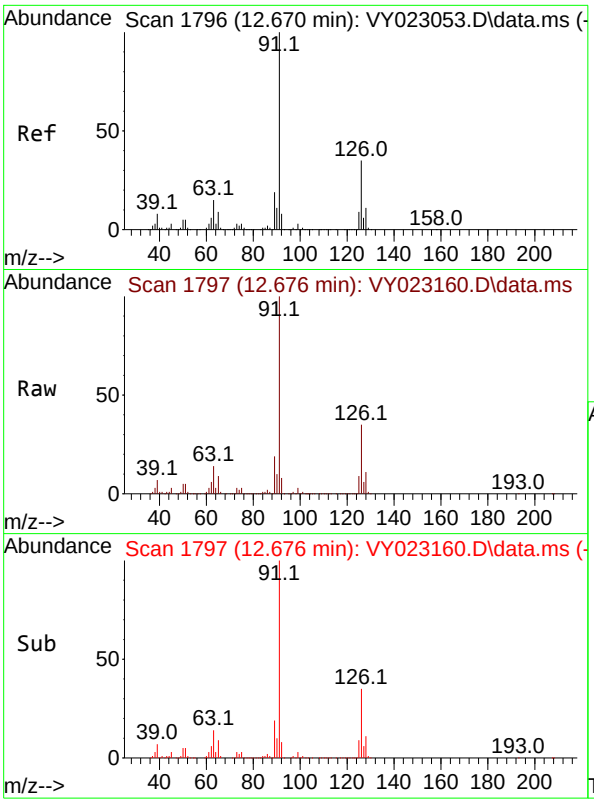


#78
n-propylbenzene
Concen: 49.502 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 1387452

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5



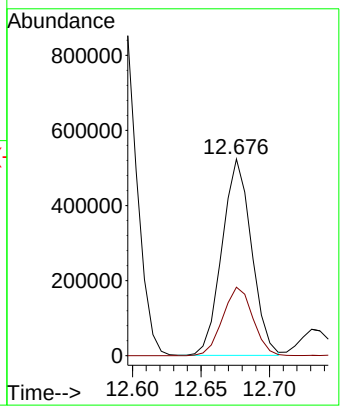


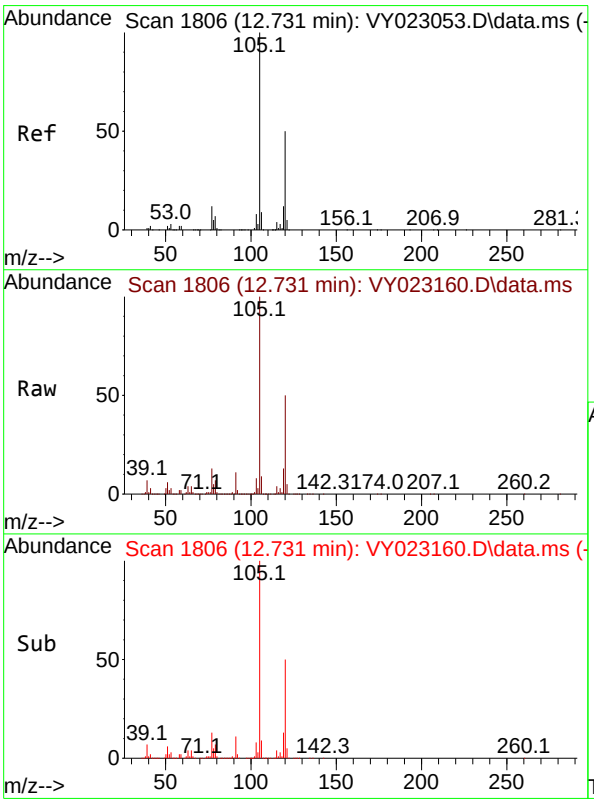
#79
2-Chlorotoluene
Concen: 48.829 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 784149

Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.4	52.3

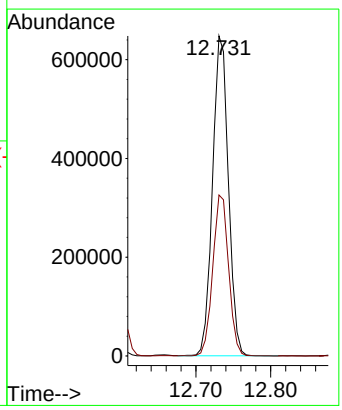


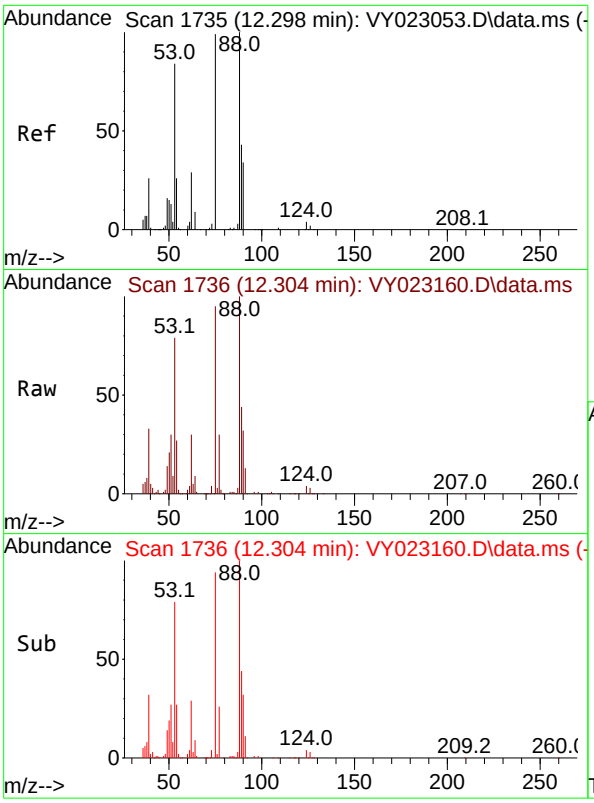


#80
1,3,5-Trimethylbenzene
Concen: 50.180 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 954748

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.8	74.4



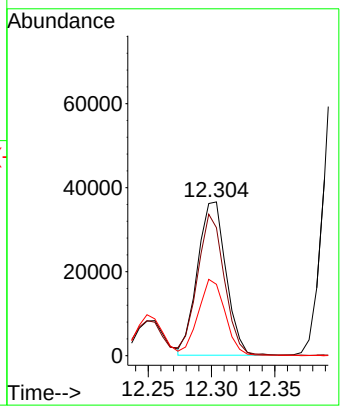


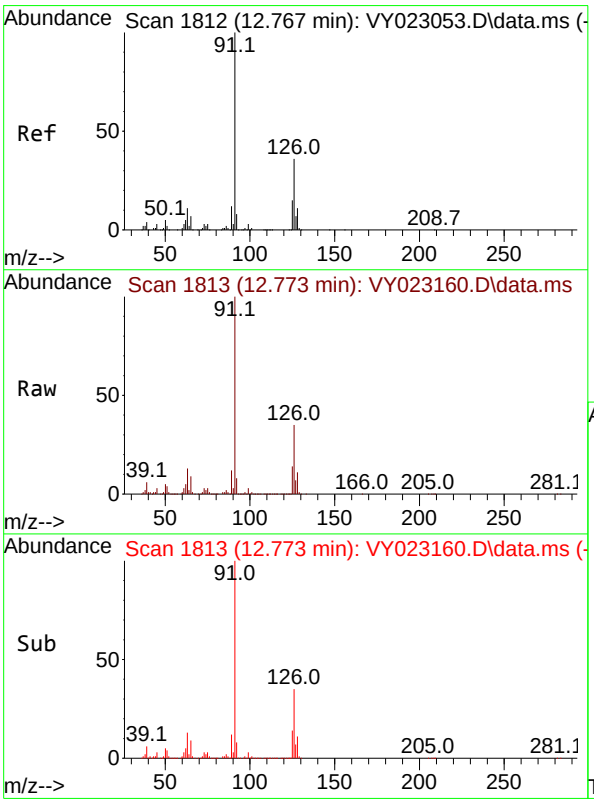
#81
trans-1,4-Dichloro-2-butene
Concen: 43.134 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 57362

Ion	Ratio	Lower	Upper
75	100		
53	87.5	70.8	106.2
89	47.4	38.1	57.1

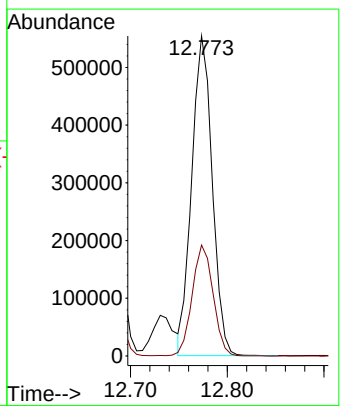


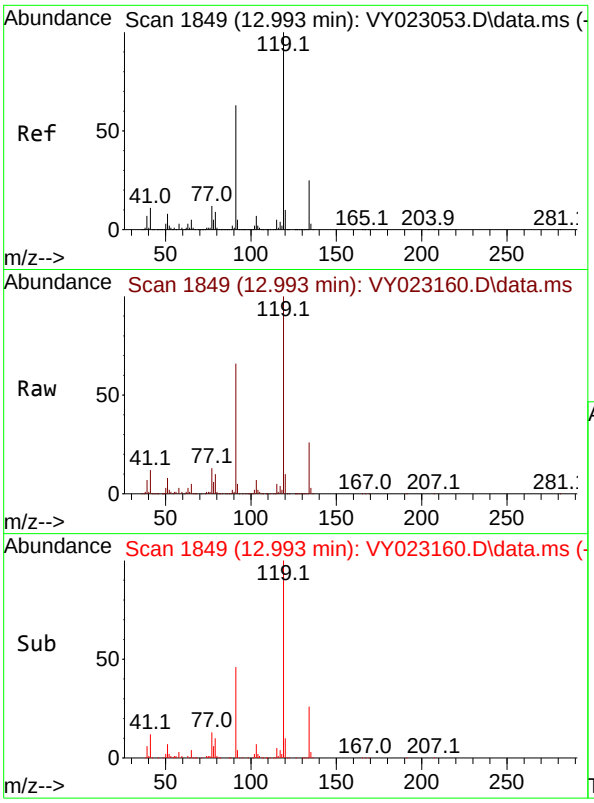


#82
4-Chlorotoluene
Concen: 48.995 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 816232

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	52.0



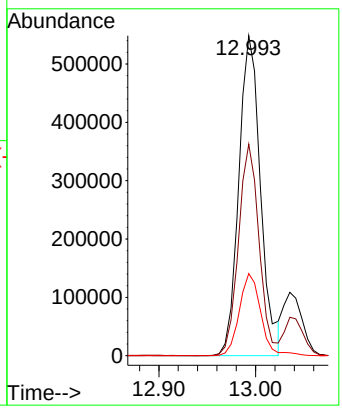


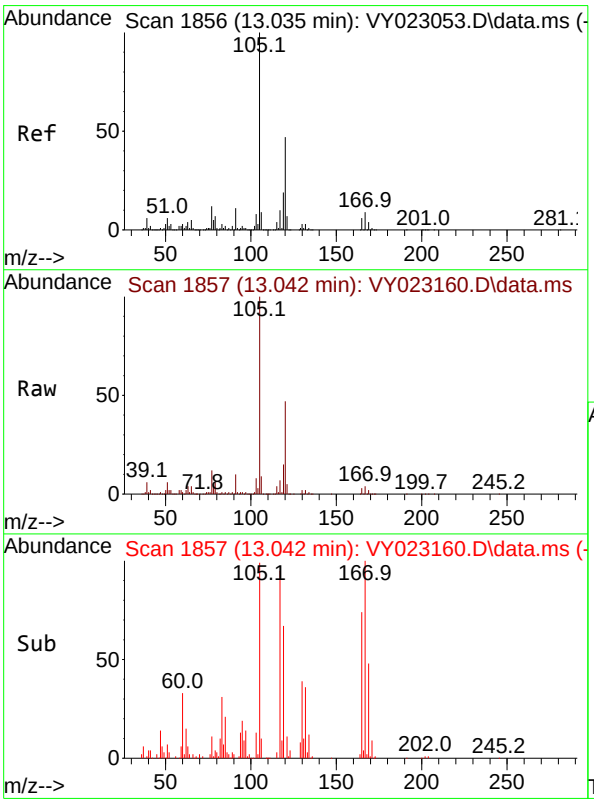
#83
tert-Butylbenzene
Concen: 49.921 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 857857

Ion	Ratio	Lower	Upper
119	100		
91	63.0	31.6	94.8
134	25.4	12.9	38.7

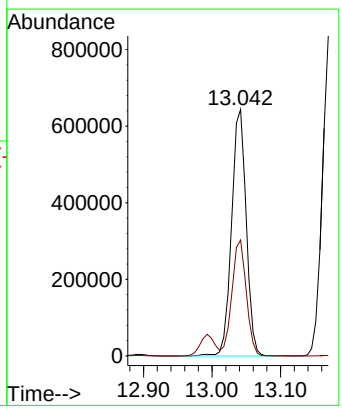


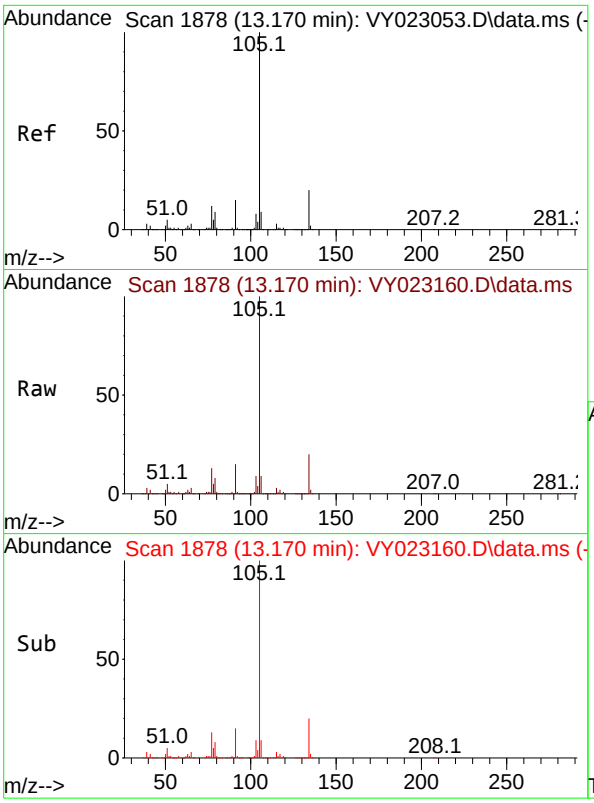


#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 956661

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.0	69.0



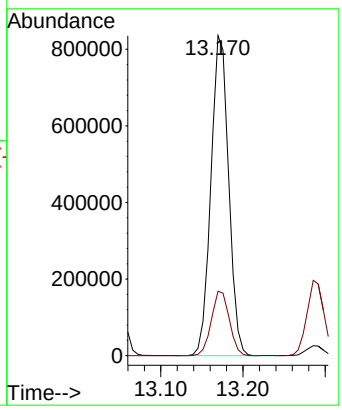


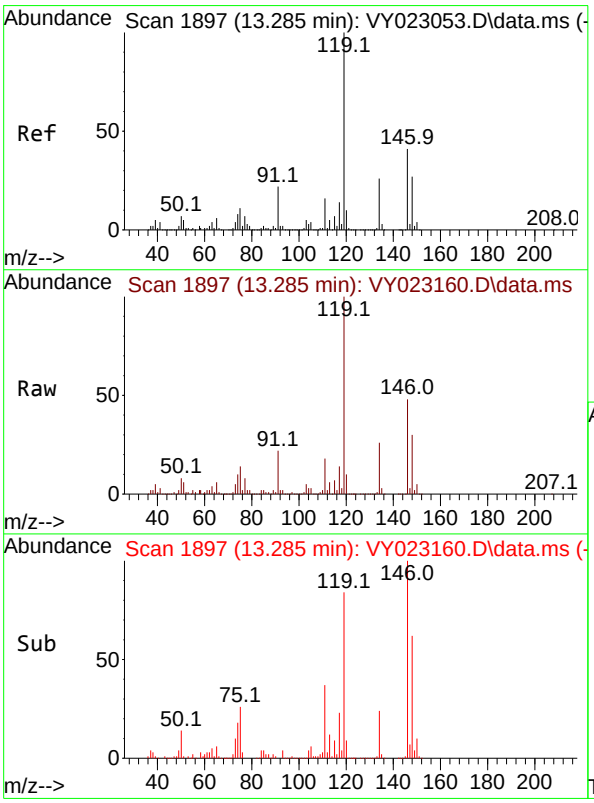
#85
sec-Butylbenzene
Concen: 49.485 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1249164

Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.4

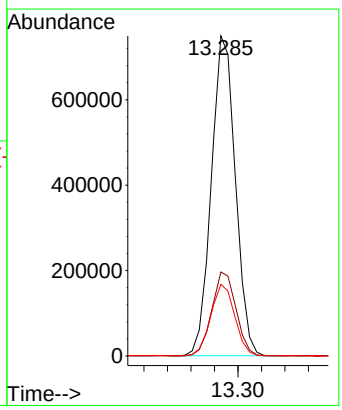


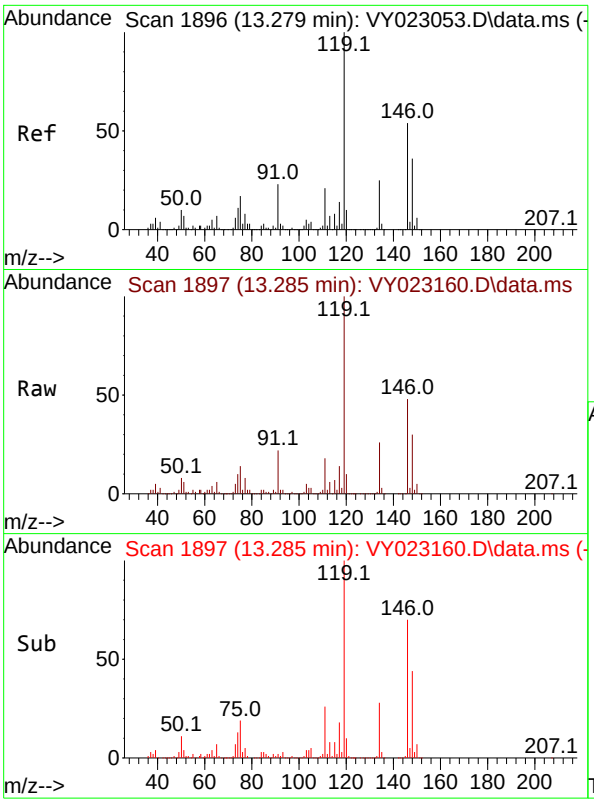


#86
p-Isopropyltoluene
Concen: 50.842 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:119 Resp: 1065308

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	22.3	11.3	33.8



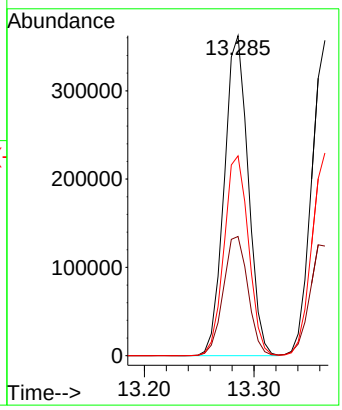


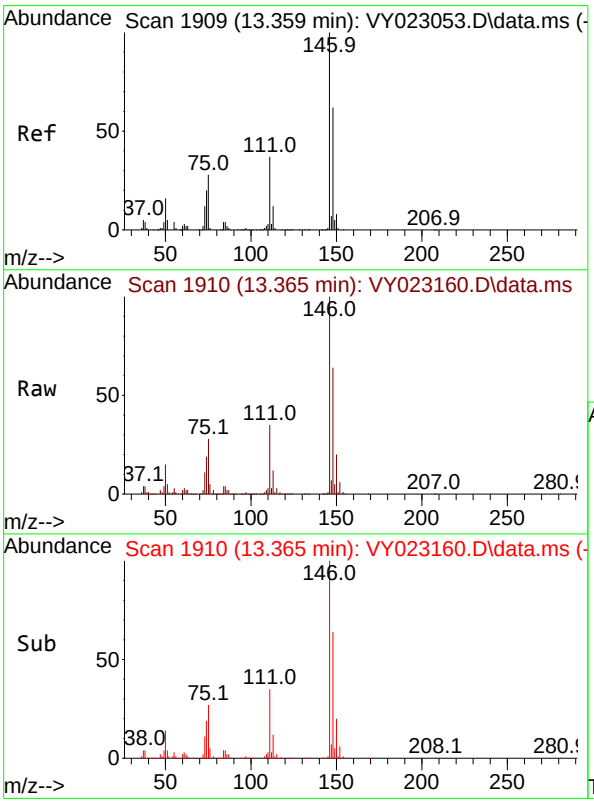
#87
1,3-Dichlorobenzene
Concen: 49.644 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 549837

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.7
148	63.8	32.5	97.5

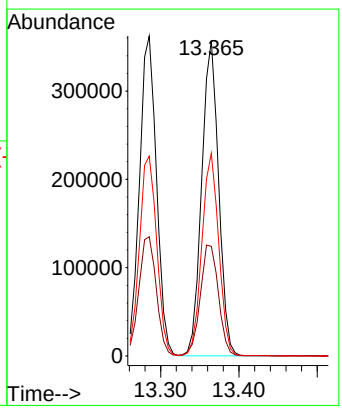


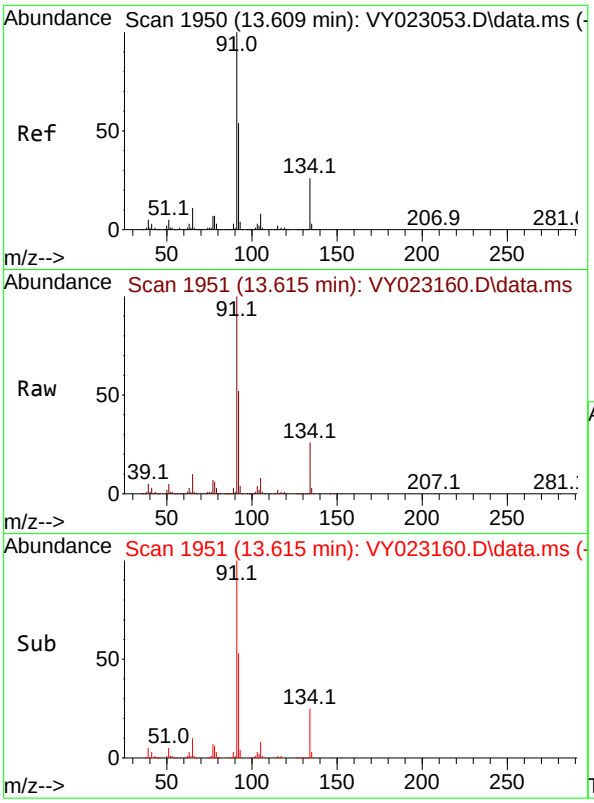


#88
1,4-Dichlorobenzene
Concen: 48.611 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 534086

Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.1
148	64.3	31.6	94.7



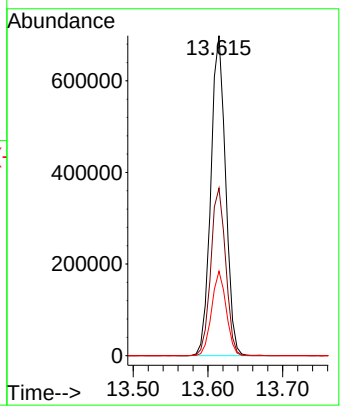


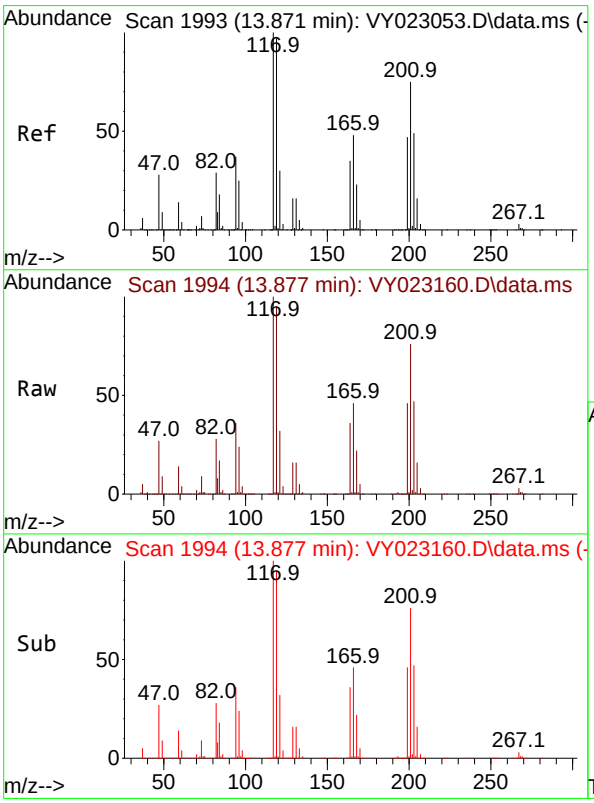
#89
n-Butylbenzene
Concen: 49.746 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 957330

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.9	80.7
134	26.1	13.2	39.5

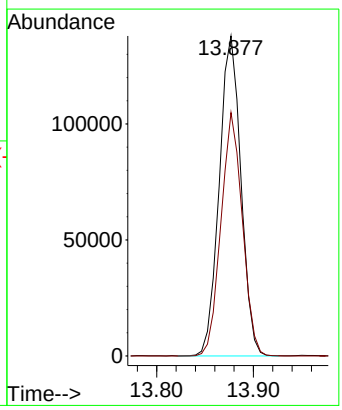


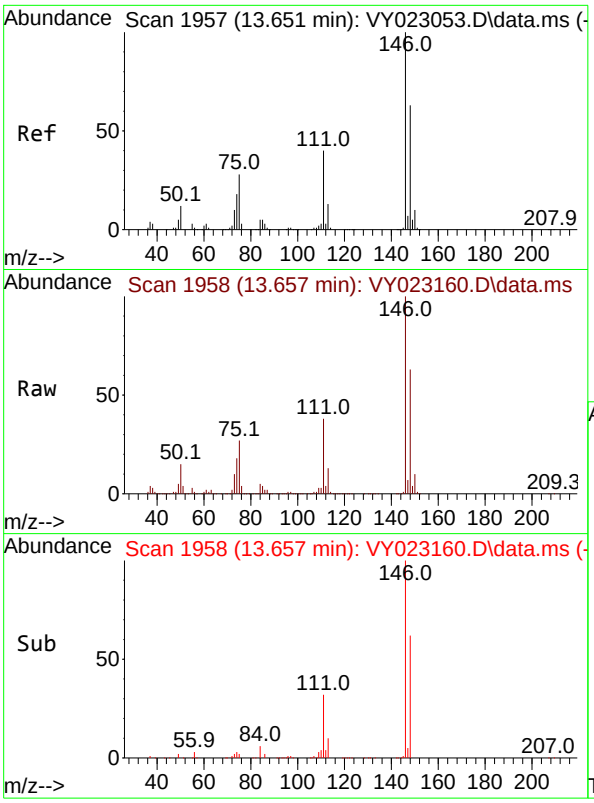


#90
Hexachloroethane
Concen: 50.008 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 214503

Ion	Ratio	Lower	Upper
117	100		
201	75.0	38.4	115.1



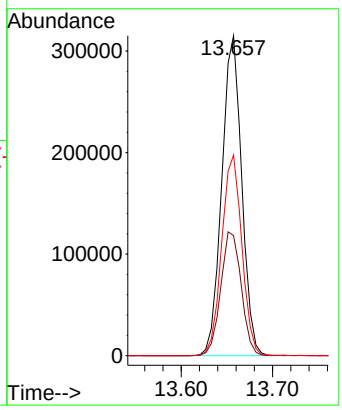


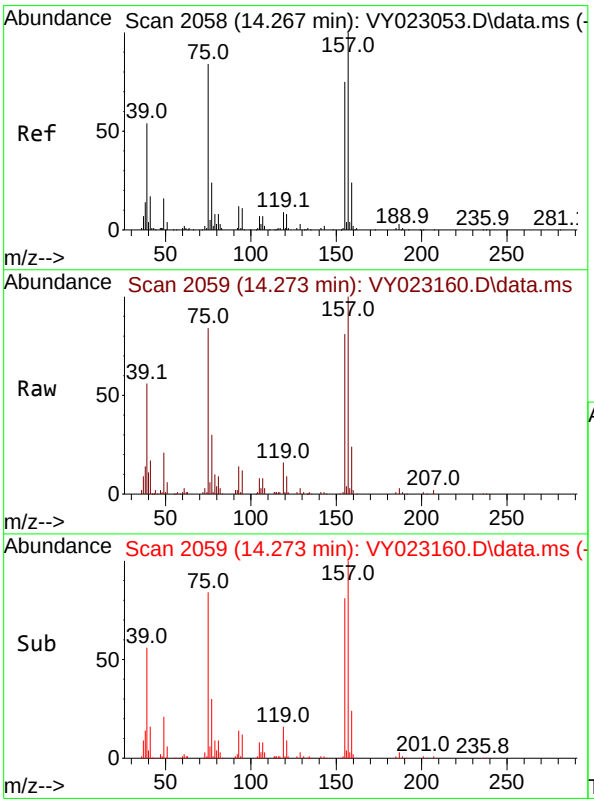
#91
1,2-Dichlorobenzene
Concen: 49.177 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 477680

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.5	32.2	96.6

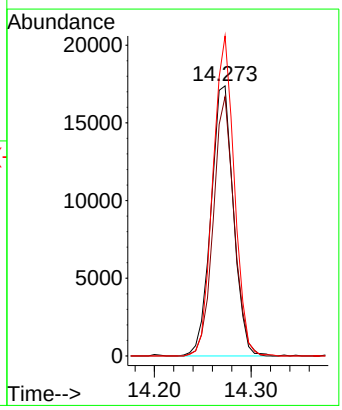


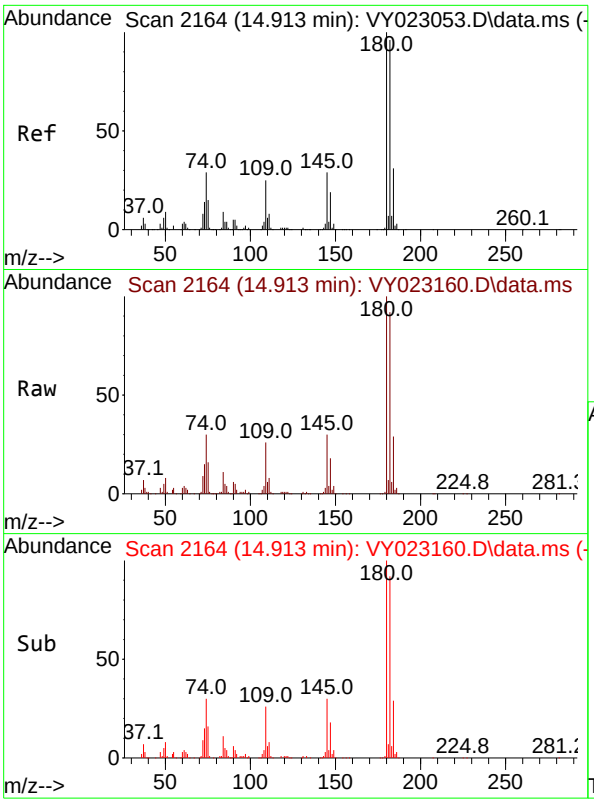


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 28063

Ion	Ratio	Lower	Upper
75	100		
155	88.7	43.9	131.6
157	112.5	57.2	171.6



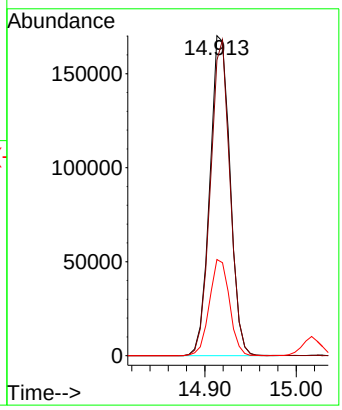


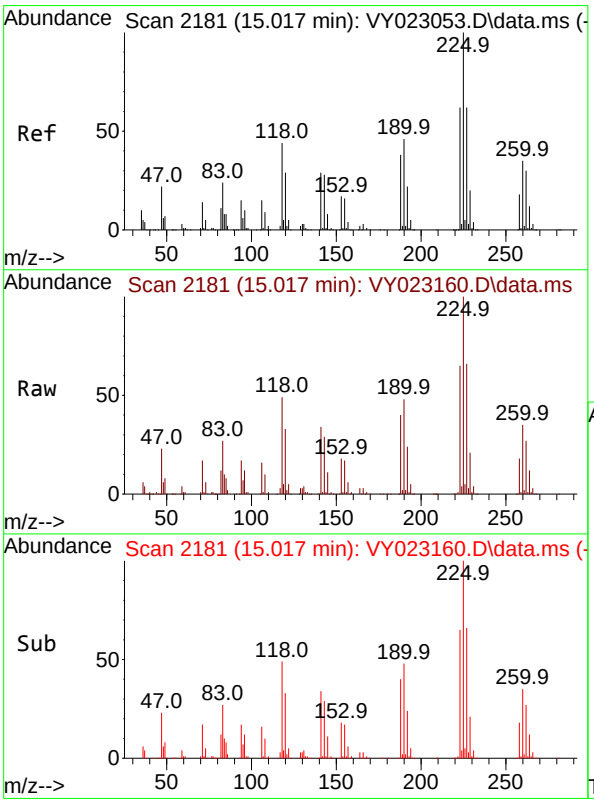
#93
1,2,4-Trichlorobenzene
Concen: 45.553 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 261664

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.8	140.4
145	29.7	14.4	43.4

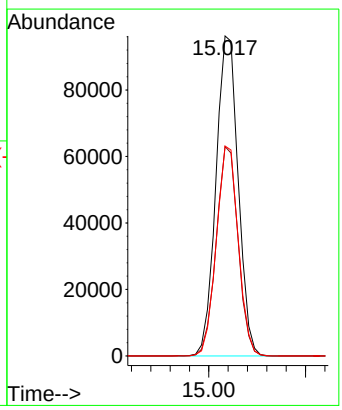


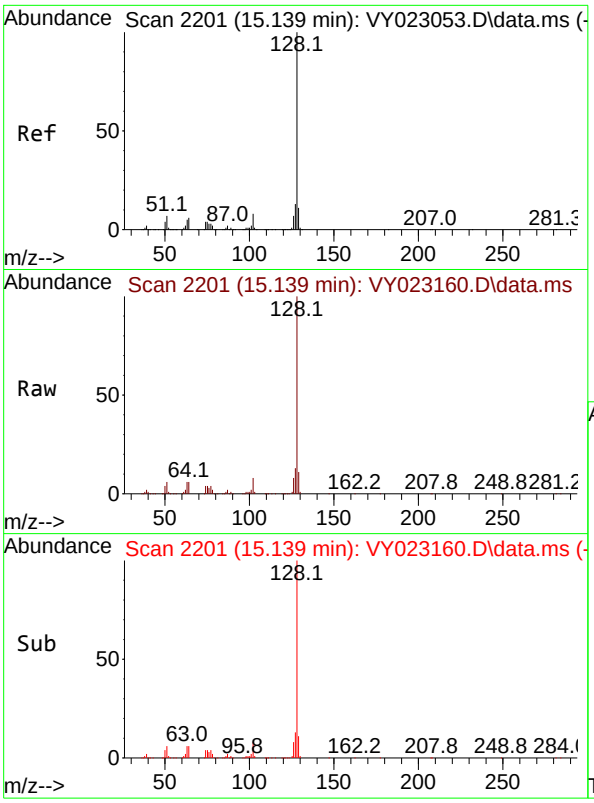


#94
Hexachlorobutadiene
Concen: 45.434 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:225 Resp: 153359

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.3	93.8
227	64.6	31.5	94.5



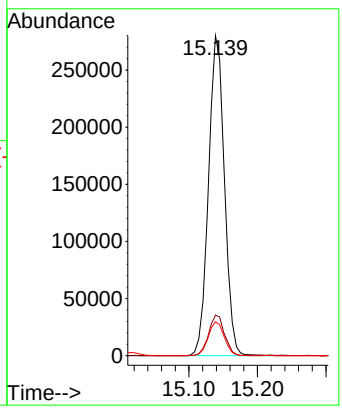


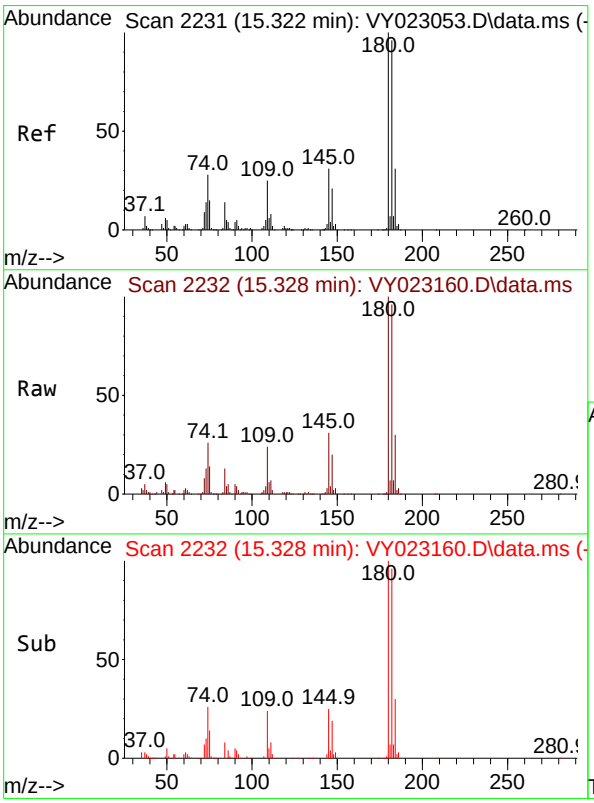
#95
Naphthalene
Concen: 46.168 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

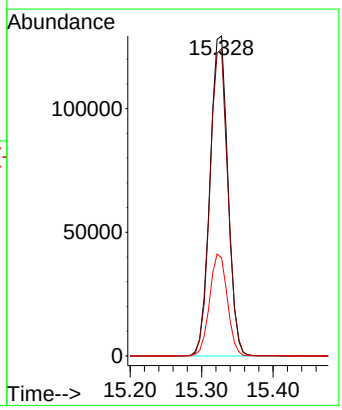
Tgt Ion:128 Resp: 452211

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.7	9.0	13.4





#96
1,2,3-Trichlorobenzene
Concen: 45.311 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 224276

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.7
145	31.5	15.9	47.7